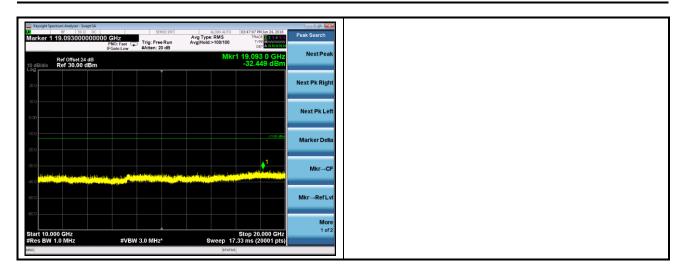
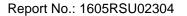


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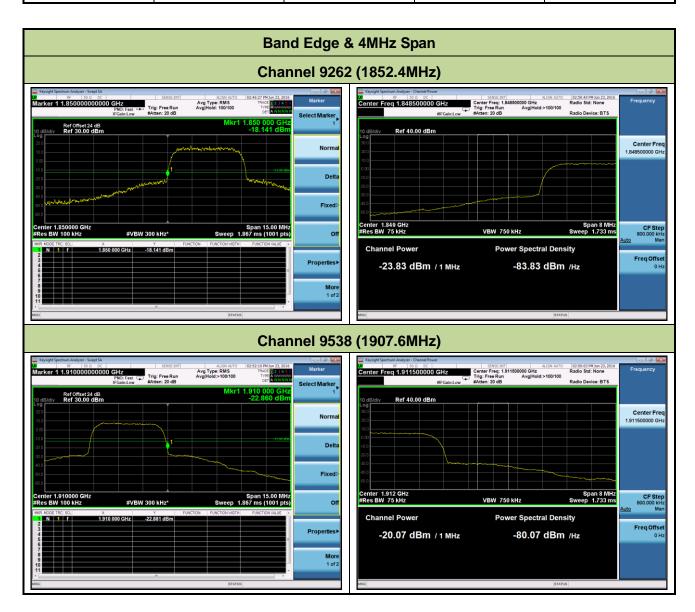


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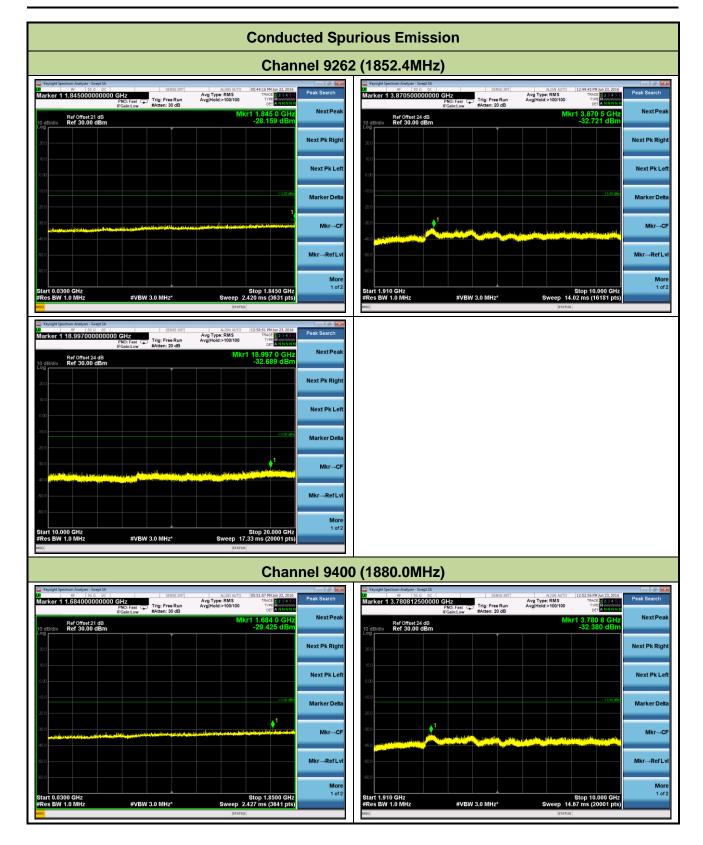


Mode	Channel No.	Frequency (MHz)	Modulation	Test Result
WCDMA Band II	9262	1852.4	QPSK	Pass
WCDMA Band II	9400	1880.0	QPSK	Pass
WCDMA Band II	9538	1907.6	QPSK	Pass



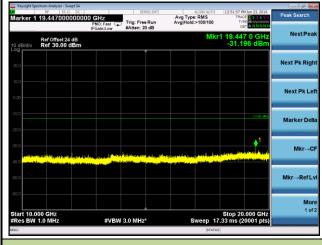
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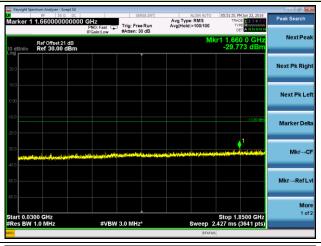


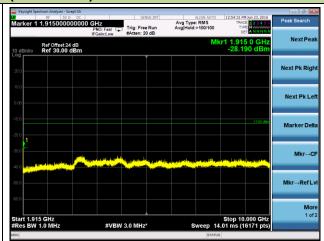
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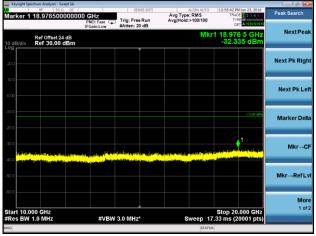




Channel 9538 (1907.6MHz)







Mkr—CF

Mkr—RefLvi

More
1 of 2

Stop 20,000 GHz
1 of 2

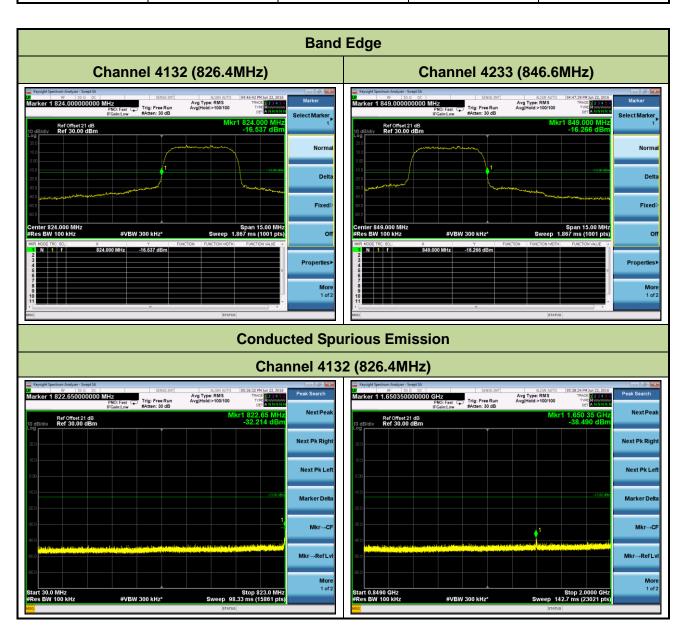
Itarus

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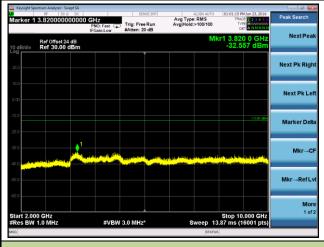


Mode	Channel No.	Frequency (MHz)	Modulation	Test Result
WCDMA Band V	4132	826.40	QPSK	Pass
WCDMA Band V	4182	836.40	QPSK	Pass
WCDMA Band V	4233	846.60	QPSK	Pass

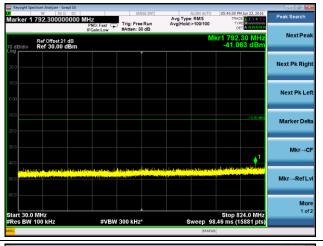


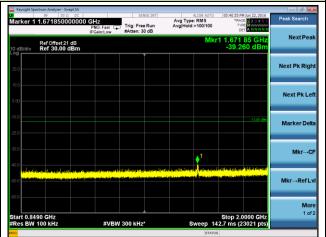
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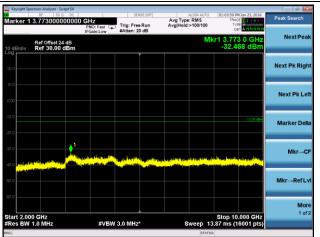




Channel 4182 (836.4MHz)







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7.4. Conducted & Radiated Power and Radiated Spurious Emissions

7.4.1. Test Limit

Radiated Power

For FCC Part 22.913(a)(2):

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

For FCC Part 24.232(b):

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

Radiated Spurious Emissions

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 + 10log(P) dB.

7.4.2. Test Procedure Used

KDB 971168 D01v02r02 - Section 7.0 & ANSI/TIA-603-D-2010

7.4.3. Test Setting

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- 3. The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.

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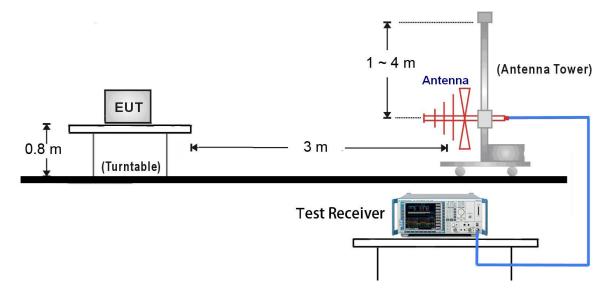
- 8. The maximum signal level detected by the measuring receiver shall be noted.
- 9. The transmitter shall be replaced by a substitution antenna.
- 10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- 11. The substitution antenna shall be connected to a calibrated signal generator.
- 12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- 14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- 15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- 16. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- 17. Test site anechoic chamber refer to ANSI C63.4: 2009.

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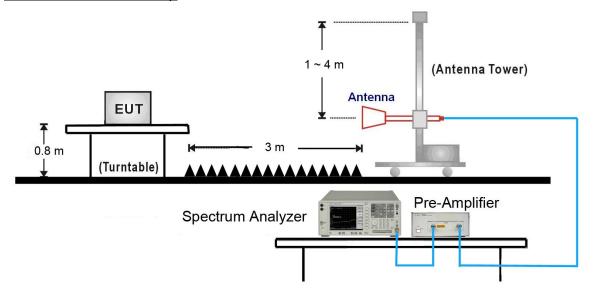


7.4.4. Test Setup

30MHz ~ 1GHz Test Setup:



1GHz ~ 20GHz Test Setup:



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7.4.5. Test Result

Conducted Power

Mode	Frequency (MHz)	Avg. Burst Power	Duty Cycle Factor	Frame Power
		(dBm)	(dB)	(dBm)
	824.2	32.71	-9	23.71
GSM850	836.4	32.67	-9	23.67
	848.8	32.61	-9	23.61
	824.2	32.68	-9	23.68
GPRS850(1 Slot)	836.4	32.64	-9	23.64
	848.8	32.57	-9	23.57
	824.2	32.02	-6	26.02
GPRS850(2 Slot)	836.4	32.01	-6	26.01
	848.8	31.97	-6	25.97
	824.2	30.39	-4.25	26.14
GPRS850(3 Slot)	836.4	30.41	-4.25	26.16
	848.8	30.38	-4.25	26.13
	824.2	29.63	-3	26.63
GPRS850(4 Slot)	836.4	29.67	-3	26.67
	848.8	29.64	-3	26.64
	824.2	27.53	-9	18.53
EDGE850(1 Slot)	836.4	27.58	-9	18.58
	848.8	27.58	-9	18.58
	824.2	27.56	-6	21.56
EDGE850(2 Slot)	836.4	27.62	-6	21.62
	848.8	27.61	-6	21.61
	824.2	27.58	-4.25	23.33
EDGE850(3 Slot)	836.4	27.63	-4.25	23.38
	848.8	27.63	-4.25	23.38
	824.2	27.62	-3	24.62
EDGE850(4 Slot)	836.4	27.66	-3	24.66
,	848.8	27.65	-3	24.65
	1850.2	29.76	-9	20.76
PCS1900	1880.0	29.39	-9	20.39
	1909.8	29.58	-9	20.58

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	1850.2	27.24	-9	18.24
GPRS1900(1 Slot)	1880.0	26.48	-9	17.48
	1909.8	26.63	-9	17.63
	1850.2	27.21	-6	21.21
GPRS1900(2 Slot)	1880.0	26.46	-6	20.46
	1909.8	26.61	-6	20.61
	1850.2	27.19	-4.25	22.94
GPRS1900(3 Slot)	1880.0	26.44	-4.25	22.19
	1909.8	26.55	-4.25	22.3
	1850.2	27.14	-3	24.14
GPRS1900(4 Slot)	1880.0	26.38	-3	23.38
	1909.8	26.53	-3	23.53
	1850.2	27.24	-9	18.24
EDGE1900(1 Slot)	1880.0	26.49	-9	17.49
	1909.8	26.65	-9	17.65
	1850.2	27.22	-6	21.22
EDGE1900(2 Slot)	1880.0	26.45	-6	20.45
	1909.8	26.61	-6	20.61
	1850.2	27.18	-4.25	22.93
EDGE1900(3 Slot)	1880.0	26.41	-4.25	22.16
	1909.8	26.56	-4.25	22.31
	1850.2	27.13	-3	24.13
EDGE1900(4 Slot)	1880.0	26.35	-3	23.35
	1909.8	26.52	-3	23.52

Note: Frame Power (dBm) = Avg. Burst Power (dBm) + Duty Cycle Factor (dB)

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		Cone	ducted Power (d	dBm)			
Mode	3GPP Subtest		Band II Channel				
	Sublest	9262	9400	9538			
WCDMA R99	1	22.85	22.68	22.34	N/A		
	1	21.74	21.63	21.25	0		
Rel5 HSDPA	2	21.68	21.57	21.19	0		
Reis HSDPA	3	21.61	21.52	21.11	0.5		
	4	21.52	21.43	21.08	0.5		
	1	21.76	21.67	21.27	0.0		
	2	21.71	21.61	21.22	2.0		
Rel6 HSUPA	3	21.63	21.54	21.17	1.0		
	4	21.58	21.44	21.14	2.0		
	5	21.49	21.32	21.08	0.0		
	3GPP	Cond					
Mode	Subtest		MPR				
	Subtest	4132	4182	4233			
WCDMA R99	1	22.97	23.07	22.92	N/A		
	1	21.85	21.94	21.83	0		
Rel5 HSDPA	2	21.79	21.89	21.71	0		
Reis HSDPA	3	21.69	21.84	21.69	0.5		
	4	21.62	21.77	21.58	0.5		
	1	21.84	21.94	21.85	0.0		
	2	21.78	21.88	21.81	2.0		
Rel6 HSUPA	3	21.72	21.82	21.74	1.0		
		04.64	21.76	21.68	2.0		
	4	21.64	21.70	21.00	2.0		

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Radiated Power

GSM850

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 1	28 (824.20N	⁄IHz)							
824.2	Н	26.18	1.78	6.52	30.92	38.5	-7.58		
824.2	V	18.33	1.78	6.38	22.93	38.5	-15.57		
Middle Channe	l 189 (836.4	OMHz)							
836.4	Н	26.28	1.80	6.63	31.11	38.5	-7.39		
836.4	V	20.18	1.80	6.15	24.53	38.5	-13.97		
High Channel 2	High Channel 251 (848.80MHz)								
848.8	Н	26.57	1.82	6.80	31.55	38.5	-6.95		
848.8	V	23.46	1.82	6.54	28.18	38.5	-10.32		

PCS1900

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBi)					
Low Channel 5	12 (1850.20	MHz)							
1850.2	Н	19.86	2.70	10.40	27.56	33.0	-5.44		
1850.2	V	13.03	2.70	10.40	20.73	33.0	-12.27		
Middle Channe	l 661 (1880.	.00MHz)							
1880.0	Н	20.27	2.72	10.43	27.97	33.0	-5.03		
1880.0	V	13.88	2.72	10.43	21.58	33.0	-11.42		
High Channel 8	High Channel 810 (1909.80MHz)								
1909.8	Н	20.19	2.75	10.44	27.89	33.0	-5.11		
1909.8	V	12.69	2.75	10.44	20.39	33.0	-12.61		

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GPRS850

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 12	28 (824.20N	⁄IHz)							
824.2	Н	26.28	1.78	6.52	31.02	38.5	-7.48		
824.2	V	18.52	1.78	6.38	23.12	38.5	-15.38		
Middle Channe	l 189 (836.4	OMHz)							
836.4	Н	26.25	1.80	6.63	31.08	38.5	-7.42		
836.4	V	20.31	1.80	6.15	24.66	38.5	-13.84		
High Channel 2	High Channel 251 (848.80MHz)								
848.8	Н	26.50	1.82	6.80	31.48	38.5	-7.02		
848.8	V	23.26	1.82	6.54	27.98	38.5	-10.52		

PCS1900

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)
				Gain (dBi)			
Low Channel 5	12 (1850.20	MHz)					
1850.2	Н	20.32	2.70	10.40	28.02	33.0	-4.98
1850.2	V	12.95	2.70	10.40	20.65	33.0	-12.35
Middle Channe	l 661 (1880.	.00MHz)					
1880.0	Н	20.32	2.72	10.43	28.03	33.0	-4.97
1880.0	V	13.97	2.72	10.43	21.68	33.0	-11.32
High Channel 8	310 (1909.80	OMHz)					
1909.8	Н	20.25	2.75	10.44	27.94	33.0	-5.06
1909.8	V	13.59	2.75	10.44	21.28	33.0	-11.72

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EDGE850

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)
				Gain (dBd)			
Low Channel 1:	28 (824.20N	ЛHz)					
824.2	Н	25.37	1.78	6.52	30.11	38.5	-8.39
824.2	V	13.72	1.78	6.38	18.32	38.5	-20.18
Middle Channe	l 189 (836.4	lOMHz)					
836.4	Н	25.43	1.80	6.63	30.26	38.5	-8.24
836.4	V	15.32	1.80	6.15	19.67	38.5	-18.83
High Channel 2	251 (848.80	MHz)					
848.8	Н	25.11	1.82	6.80	30.09	38.5	-8.41
848.8	V	15.17	1.82	6.54	19.89	38.5	-18.61

EDGE1900

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)
				Gain (dBi)			
Low Channel 5	12 (1850.20	MHz)					
1850.2	Н	19.84	2.70	10.40	27.54	33.0	-5.46
1850.2	V	11.66	2.70	10.40	19.36	33.0	-13.64
Middle Channe	l 661 (1880.	.00MHz)					
1880.0	Н	19.50	2.72	10.43	27.21	33.0	-5.79
1880.0	V	11.85	2.72	10.43	19.56	33.0	-13.44
High Channel 8	310 (1909.80	OMHz)					
1909.8	Н	19.35	2.75	10.52	27.12	33.0	-5.88
1909.8	V	11.86	2.75	10.52	19.63	33.0	-13.37

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WCDMA Band II

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)
				Gain (dBi)			
Low Channel 9	262 (1852.4	lOMHz)					
1852.4	Н	14.73	2.70	10.40	22.43	33.0	-10.57
1852.4	V	11.87	2.70	10.40	19.57	33.0	-13.43
Middle Channe	l 9400 (1880	0.00MHz)					
1880.0	Н	14.43	2.72	10.43	22.14	33.0	-10.86
1880.0	V	10.86	2.72	10.43	18.57	33.0	-14.43
High Channel 9	9538 (1907.6	60MHz)					
1907.6	Н	14.57	2.75	10.44	22.26	33.0	-10.74
1907.6	V	10.75	2.75	10.44	18.44	33.0	-14.56

WCDMA Band V

WODIVI/ CDana	•								
Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 4	Low Channel 4132 (826.40MHz)								
826.4	Н	17.42	1.79	6.50	22.13	38.5	-16.37		
826.4	V	12.15	1.79	6.30	16.66	38.5	-21.84		
Middle Channe	l 4182 (836.	.40MHz)							
836.4	Н	17.14	1.80	6.63	21.97	38.5	-16.53		
836.4	V	12.36	1.80	6.15	16.71	38.5	-21.79		
High Channel 4	High Channel 4233 (846.60MHz)								
846.6	Н	17.81	1.82	6.80	22.79	38.5	-15.71		
846.6	V	12.25	1.82	6.51	16.94	38.5	-21.56		

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HSUPA Band II

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin	
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)	
				Gain (dBi)				
Low Channel 9262 (1852.40MHz)								
1852.4	Н	14.16	2.70	10.40	21.86	33.0	-11.14	
1852.4	V	11.67	2.70	10.40	19.37	33.0	-13.63	
Middle Channe	l 9400 (1880	0.00MHz)						
1880.0	Н	14.61	2.72	10.43	22.32	33.0	-10.68	
1880.0	V	10.91	2.72	10.43	18.62	33.0	-14.38	
High Channel 9	538 (1907.6	60MHz)						
1907.6	Н	14.88	2.75	10.44	22.57	33.0	-10.43	
1907.6	V	10.48	2.75	10.44	18.17	33.0	-14.83	

HSUPA Band V

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)
				Gain (dBd)			
Low Channel 4	132 (826.40	MHz)					
826.4	Н	16.47	1.79	6.50	21.18	38.5	-17.32
826.4	V	10.96	1.79	6.30	15.47	38.5	-23.03
Middle Channe	l 4182 (836.	.40MHz)					
836.4	Н	16.13	1.80	6.63	20.96	38.5	-17.54
836.4	V	11.52	1.80	6.15	15.87	38.5	-22.63
High Channel 4	233 (846.60	OMHz)					
846.6	Н	16.89	1.82	6.80	21.87	38.5	-16.63
846.6	V	11.20	1.82	6.51	15.89	38.5	-22.61

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HSDPA Band II

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	EIRP	Limit	Margin	
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)	
				Gain (dBi)				
Low Channel 9262 (1852.40MHz)								
1852.4	Н	13.88	2.70	10.40	21.58	33.0	-11.42	
1852.4	V	10.93	2.70	10.40	18.63	33.0	-14.37	
Middle Channe	l 9400 (1880	0.00MHz)						
1880.0	Н	14.25	2.72	10.43	21.96	33.0	-11.04	
1880.0	V	10.73	2.72	10.43	18.44	33.0	-14.56	
High Channel 9538 (1907.60MHz)								
1907.6	Н	14.20	2.75	10.44	21.89	33.0	-11.11	
1907.6	V	10.30	2.75	10.44	17.99	33.0	-15.01	

HSDPA Band V

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 4	Low Channel 4132 (826.40MHz)								
826.4	Η	16.07	1.79	6.50	20.78	38.5	-17.72		
826.4	V	11.52	1.79	6.30	16.03	38.5	-22.47		
Middle Channe	l 4182 (836.	.40MHz)							
836.4	Н	16.02	1.80	6.63	20.85	38.5	-17.65		
836.4	V	9.90	1.80	6.15	14.25	38.5	-24.25		
High Channel 4233 (846.60MHz)									
846.6	Н	15.6	1.82	6.80	20.58	38.5	-17.92		
846.6	V	9.53	1.82	6.51	14.22	38.5	-24.28		

NOTES:

- ERP (dBm) / EIRP (dBm)= SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)
- 2. This device was tested under all configurations and the highest power is reported in GSM mode. This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA and GSM/GPRS/EDGE capabilities. For WCDMA and HSPA transmission, all configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at

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12.2kbps rate.

- 3. This unit was tested with its standard adapter.
- 4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The "H" positioning is defined with the EUT lying flat on the test surface, the "H2" positioning is defined with the EUT standing up on its side, and the "V" positioning is defined with the EUT standing upright. The worst case test configuration was found in the EUT in the H positioning. The data reported in the table above was measured in this test setup.

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Radiated Spurious Emission

GSM850

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna	ERP (dBm)	Limit (dBm)	Margin (dB)		
				Gain (dBd)					
Low Channel 128 (824.20MHz)									
1646.0	V	-43.66	2.55	5.13	-41.08	-13	-28.08		
2470.5	V	-43.04	3.14	5.54	-40.64	-13	-27.64		
1646.0	Н	-40.74	2.55	5.13	-38.16	-13	-25.16		
2470.5	Н	-42.86	3.14	5.54	-40.46	-13	-27.46		
Middle Chann	el 189 (836	6.40MHz)							
1671.5	V	-40.72	2.57	5.05	-38.24	-13	-25.24		
2513.0	V	-39.31	3.18	5.64	-36.85	-13	-23.85		
1671.5	Н	-37.93	2.57	5.05	-35.45	-13	-22.45		
2513.0	Н	-39.76	3.18	5.64	-37.30	-13	-24.30		
High Channel	251 (848.8	30MHz)							
1697.0	V	-42.15	2.59	4.97	-39.77	-13	-26.77		
2547.0	V	-39.49	3.20	5.73	-36.96	-13	-23.96		
1697.0	Н	-39.16	2.59	4.97	-36.78	-13	-23.78		
2547.0	Н	-37.71	3.20	5.73	-35.18	-13	-22.18		

Note:

- 1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 2. ERP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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PCS1900

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna	EIRP (dBm)	Limit (dBm)	Margin (dB)		
				Gain (dBi)					
Low Channel 512 (1850.20MHz)									
3703.0	V	-51.83	3.90	7.88	-47.85	-13	-34.85		
7400.5	V	-47.61	5.72	11.66	-41.67	-13	-28.67		
3703.0	Н	-48.32	3.90	7.88	-44.34	-13	-31.34		
5547.5	Н	-51.21	4.85	10.10	-45.96	-13	-32.96		
Middle Channel 661 (1880.00MHz)									
3762.5	V	-48.68	3.94	7.93	-44.69	-13	-31.69		
7519.5	V	-46.75	5.78	11.72	-40.81	-13	-27.81		
3762.5	Н	-49.08	3.94	7.93	-45.09	-13	-32.09		
5641.0	Н	-52.14	4.90	10.10	-46.94	-13	-33.94		
High Channel	810 (1909	.80MHz)							
3822.0	V	-48.16	3.98	8.07	-44.07	-13	-31.07		
7638.5	V	-48.53	5.81	11.81	-42.53	-13	-29.53		
3822.0	Н	-47.88	3.98	8.07	-43.79	-13	-30.79		
5726.0	Н	-51.87	5.00	10.10	-46.77	-13	-33.77		

Note:

- 1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 2. EIRP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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EDGE850

Frequency	Ant. Pol.	SG Reading		Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 128 (824.20MHz)									
1646.0	V	-53.33	2.55	5.13	-50.75	-13	-37.75		
2470.5	V	-52.93	3.14	5.54	-50.53	-13	-37.53		
1646.0	Н	-46.94	2.55	5.13	-44.36	-13	-31.36		
2470.5	Н	-51.74	3.14	5.54	-49.34	-13	-36.34		
Middle Channel 189 (836.40MHz)									
1671.5	V	-50.58	2.57	5.05	-48.10	-13	-35.10		
2513.0	V	-55.90	3.18	5.64	-53.44	-13	-40.44		
1671.5	Н	-48.71	2.57	5.05	-46.23	-13	-33.23		
2513.0	Н	-53.55	3.18	5.64	-51.09	-13	-38.09		
High Channel	251 (848.8	30MHz)							
1697.0	V	-49.84	2.59	4.97	-47.46	-13	-34.46		
2547.0	V	-56.05	3.20	5.73	-53.52	-13	-40.52		
1697.0	Н	-50.73	2.59	4.97	-48.35	-13	-35.35		
2547.0	Н	-55.28	3.20	5.73	-52.75	-13	-39.75		

Note:

- 1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 2. ERP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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EDGE1900

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna	EIRP (dBm)	Limit (dBm)	Margin (dB)			
,	,		,	Gain (dBi)	, ,	,	, ,			
Low Channel	Low Channel 512 (1850.20MHz)									
4799.5	V	-54.03	4.49	9.32	-49.20	-13	-36.20			
6635.5	V	-50.73	5.38	10.82	-45.29	-13	-32.29			
4247.0	Н	-55.05	4.21	8.80	-50.46	-13	-37.46			
8174.0	Н	-49.73	6.04	12.34	-43.43	-13	-30.43			
Middle Channel 661 (1880.00MHz)										
4000.5	V	-55.15	4.05	8.50	-50.70	-13	-37.70			
6882.0	V	-50.84	5.48	11.11	-45.21	-13	-32.21			
3762.5	Н	-54.64	3.94	7.93	-50.65	-13	-37.65			
7647.0	Н	-49.16	5.83	11.82	-43.17	-13	-30.17			
High Channel	810 (1909	.80MHz)								
4417.0	V	-55.06	4.31	8.87	-50.50	-13	-37.50			
9653.0	V	-46.68	6.60	12.60	-40.68	-13	-27.68			
4060.0	Н	-54.89	4.07	8.57	-50.39	-13	-37.39			
9236.5	Н	-47.23	6.58	12.51	-41.30	-13	-28.30			

Note:

- 1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 2. EIRP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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WCDMA Band II

Frequency	Ant. Pol.	SG Reading	Cable Loss	Substitute	ERP	Limit	Margin		
(MHz)	(H/V)	(dBm)	(dB)	Antenna	(dBm)	(dBm)	(dB)		
				Gain (dBd)					
Low Channel 9262 (1852.40MHz)									
1654.5	V	-51.15	2.56	5.11	-48.60	-13	-35.60		
3303.5	V	-56.48	3.67	6.94	-53.21	-13	-40.21		
1654.5	Н	-47.77	2.56	5.11	-45.22	-13	-32.22		
2419.5	Н	-47.71	3.10	5.44	-45.37	-13	-32.37		
Middle Channel 9400 (1880.00MHz)									
1671.5	V	-50.38	2.57	5.05	-47.90	-13	-34.90		
3346.0	V	-54.75	3.67	7.12	-51.30	-13	-38.30		
1671.5	Н	-47.28	2.57	5.05	-44.80	-13	-31.80		
2504.5	Н	-54.40	3.17	5.61	-51.96	-13	-38.96		
High Channel	9538 (190	7.60MHz)							
1697.0	V	-49.84	2.59	4.97	-47.46	-13	-34.46		
2547.0	V	-56.08	3.20	5.73	-53.55	-13	-40.55		
1688.5	Н	-48.98	2.58	5.00	-46.56	-13	-33.56		
2547.0	Н	-53.87	3.20	5.73	-51.34	-13	-38.34		

Note:

- 1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 2. ERP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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WCDMA Band V

Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Substitute Antenna	ERP (dBm)	Limit (dBm)	Margin (dB)		
				Gain (dBd)					
Low Channel 4132 (826.40MHz)									
1654.5	V	-51.15	2.56	5.11	-48.60	-13	-35.60		
3303.5	V	-56.48	3.67	6.94	-53.21	-13	-40.21		
1654.5	Н	-47.77	2.56	5.11	-45.22	-13	-32.22		
2419.5	Н	-47.71	3.10	5.44	-45.37	-13	-32.37		
Middle Channel 4182 (836.40MHz)									
1671.5	V	-50.38	2.57	5.05	-47.90	-13	-34.90		
3346.0	V	-54.75	3.67	7.12	-51.30	-13	-38.30		
1671.5	Н	-47.28	2.57	5.05	-44.80	-13	-31.80		
2504.5	Н	-54.40	3.17	5.61	-51.96	-13	-38.96		
High Channel	4233 (846	.60MHz)							
1697.0	V	-49.84	2.59	4.97	-47.46	-13	-34.46		
2547.0	V	-56.08	3.20	5.73	-53.55	-13	-40.55		
1688.5	Н	-48.98	2.58	5.00	-46.56	-13	-33.56		
2547.0	Н	-53.87	3.20	5.73	-51.34	-13	-38.34		

Note:

- 3. Spurious emissions within 30-1000MHz were found more than 20dB below limit line.
- 4. ERP (dBm) = SG Reading (dBm) Cable Loss (dB) + Substitute Antenna Gain (dBd)

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7.5. Peak-Average Ratio

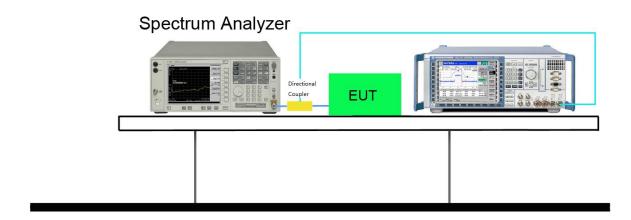
7.5.1. Test Limit

The transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

7.5.2. Test Procedure

KDB 971168 D01v02r02 - Section 5.7 & ANSI/TIA-603-D-2010

7.5.3. Test Setup



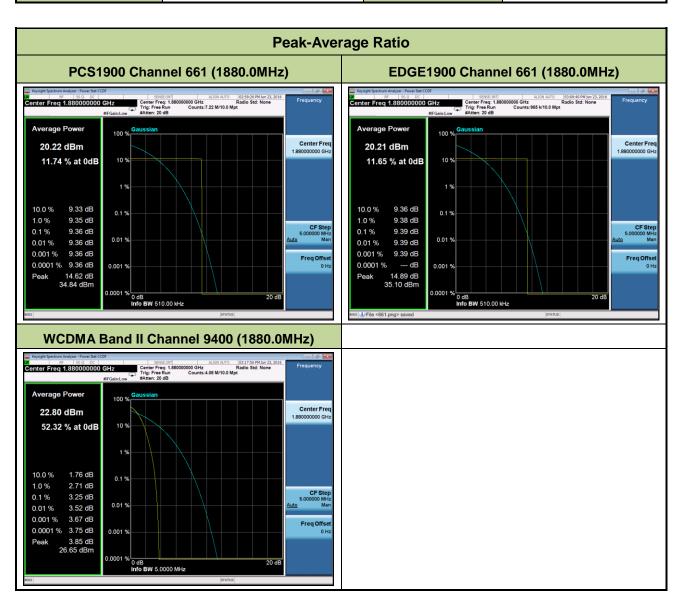
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7.5.4. Test Result

Test Item	Peak-Average Ratio	Test Engineer	Roy Cheng	
Test Site	TR3	Test Date	2016/06/23	



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7.6. Frequency Stability Under Temperature & Voltage Variations

7.6.1. Test Limit

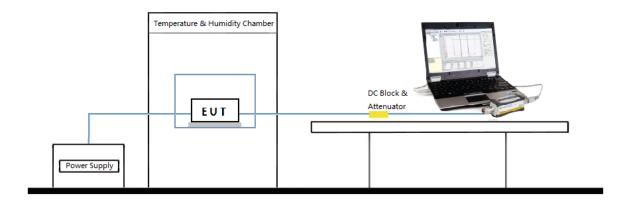
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit	< ± 2.5 ppm
-------	-------------

7.6.2. Test Procedure

KDB 971168 D01v02r02 - Section 9.0 & ANSI/TIA-603-D-2010

7.6.3. Test Setup



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7.6.4. Test Result

Operating Frequency	836,400,000 Hz
Channel	189
Test Mode	GSM850
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage	Power	TEMP	Frequency	Freq. Dev.	Deviation
(%)	(VDC)	(%)	(Hz)	(Hz)	(%)
100%		+20(Ref)	836,400,000	79	0.00000945
100%		-30	836,400,000	73	0.00000873
100%		-20	836,400,000	-83	-0.00000992
100%		-10	836,400,000	63	0.00000753
100%		0	836,400,000	-42	-0.00000502
100%	3.7	+10	836,400,000	49	0.00000586
100%		+20	836,400,000	77	0.00000921
100%		+30	836,400,000	79	0.00000945
100%		+40	836,400,000	-58	-0.00000693
100%		+50	836,400,000	73	0.00000873
115%	4.2	+20	836,400,000	74	0.00000885
BAT.ENDPOINT	3.6	+20	836,400,000	-48	-0.00000574

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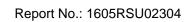




Operating Frequency	1,880,000,000 Hz
Channel	661
Test Mode	PCS1900
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage	Power	TEMP	Frequency	Freq. Dev.	Deviation
(%)	(VDC)	(%)	(Hz)	(Hz)	(%)
100%		+20(Ref)	1,880,000,000	26	0.00000138
100%		-30	1,880,000,000	68	0.00000362
100%		-20	1,880,000,000	73	0.00000388
100%		-10	1,880,000,000	-41	-0.00000218
100%		0	1,880,000,000	-64	-0.00000340
100%	3.7	+10	1,880,000,000	69	0.00000367
100%		+20	1,880,000,000	35	0.00000186
100%		+30	1,880,000,000	-63	-0.00000335
100%		+40	1,880,000,000	-54	-0.00000287
100%		+50	1,880,000,000	53	0.00000282
115%	4.2	+20	1,880,000,000	69	0.00000367
BAT.ENDPOINT	3.6	+20	1,880,000,000	-61	-0.00000324

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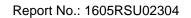




Operating Frequency	836,400,000 Hz
Channel	189
Test Mode	EDGE850
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage	Power	TEMP	Frequency	Freq. Dev.	Deviation
(%)	(VDC)	(%)	(Hz)	(Hz)	(%)
100%		+20(Ref)	836,400,000	76	0.00000909
100%		-30	836,400,000	69	0.00000825
100%		-20	836,400,000	-63	-0.00000753
100%		-10	836,400,000	-57	-0.00000681
100%	0.7	0	836,400,000	69	0.00000825
100%	3.7	+10	836,400,000	71	0.00000849
100%		+20	836,400,000	68	0.00000813
100%		+30	836,400,000	-62	-0.00000741
100%		+40	836,400,000	-47	-0.00000562
100%		+50	836,400,000	68	0.00000813
115%	4.2	+20	836,400,000	-71	-0.00000849
BAT.ENDPOINT	3.6	+20	836,400,000	-48	-0.00000574

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Operating Frequency	1,880,000,000 Hz
Channel	661
Test Mode	EDGE1900
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage	Power	TEMP	Frequency	Freq. Dev.	Deviation
(%)	(VDC)	(%)	(Hz)	(Hz)	(%)
100%		+20(Ref)	1,880,000,000	54	0.00000287
100%		-30	1,880,000,000	-71	-0.00000378
100%		-20	1,880,000,000	46	0.00000245
100%		-10	1,880,000,000	54	0.00000287
100%		0	1,880,000,000	68	0.00000362
100%	3.7	+10	1,880,000,000	-49	-0.00000261
100%		+20	1,880,000,000	51	0.00000271
100%		+30	1,880,000,000	74	0.00000394
100%		+40	1,880,000,000	63	0.00000335
100%		+50	1,880,000,000	43	0.00000229
115%	4.2	+20	1,880,000,000	-37	-0.00000197
BAT.ENDPOINT	3.6	+20	1,880,000,000	74	0.00000394

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Operating Frequency	1,880,000,000 Hz
Channel	9400
Test Mode	WCDMA Band II
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage (%)	Power (VDC)	TEMP (%)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%		+20(Ref)	1,880,000,000	62	0.00000330
100%		-30	1,880,000,000	74	0.00000394
100%		-20	1,880,000,000	-63	-0.00000335
100%		-10	1,880,000,000	69	0.00000367
100%		0	1,880,000,000	-68	-0.00000362
100%	3.7	+10	1,880,000,000	72	0.00000383
100%		+20	1,880,000,000	69	0.00000367
100%		+30	1,880,000,000	69	0.00000367
100%		+40	1,880,000,000	-53	-0.00000282
100%		+50	1,880,000,000	61	0.00000324
115%	4.2	+20	1,880,000,000	68	0.00000362
BAT.ENDPOINT	3.6	+20	1,880,000,000	-73	-0.00000388

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Operating Frequency	836,400,000 Hz
Channel	4182
Test Mode	WCDMA Band V
Reference Voltage	3.7 VDC
Deviation Limit	±0.00025% or 2.5ppm

Voltage	Power	TEMP	Frequency	Freq. Dev.	Deviation
(%)	(VDC)	(%)	(Hz)	(Hz)	(%)
100%	3.7	+20(Ref)	836,400,000	-59	-0.00000705
100%		-30	836,400,000	47	0.00000562
100%		-20	836,400,000	53	0.00000634
100%		-10	836,400,000	76	0.00000909
100%		0	836,400,000	43	0.00000514
100%		+10	836,400,000	69	0.00000825
100%		+20	836,400,000	-57	-0.00000681
100%		+30	836,400,000	46	0.00000550
100%		+40	836,400,000	52	0.00000622
100%		+50	836,400,000	69	0.00000825
115%	4.2	+20	836,400,000	-72	-0.00000861
BAT.ENDPOINT	3.6	+20	836,400,000	-68	-0.00000813

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Smart Phone** compliance with all the requirements of Parts 2, 22, 24 of the FCC Rules.

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The End