

TEST REPORT

APPLICANT : Shenzhen Chainway Information

Technology Co.,Ltd.

PRODUCT NAME: Mobile Data Terminal

MODEL NAME : C6000

BRAND NAME: CHAINWAY

FCC ID : 2AC6AC6000

47 CFR Part 22 Subpart H

STANDARD(S) : 47 CFR Part 24 Subpart E

47 CFR Part 27 Subpart L

TEST DATE : 2017-12-26 to 2018-04-17

ISSUE DATE : 2018-04-19

Tested by:

Li Jingzong (Test/Engineer)

Approved by:

Andy Yeh (Technical Director)

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Change History							
Issue	Date	Reason for change					
1.0	2018-04-19	First edition					



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant: Shenzhen Chainway Information Technology Co.,Ltd.		
Applicant Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District	
	67, Bao'an, Shenzhen	
Manufacturer:	Shenzhen Chainway Information Technology Co.,Ltd.	
Manufacturer Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District	
	67, Bao'an, Shenzhen	

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Data Terminal			
Serial No:	(N/A, marked #1 by test site)			
Hardware Version:	C6000EA_MB_10			
Software Version:	C6000A_MT6735_V3_AM_GITe978618_20180315			
Modulation Type:	GSM,GPRS Mode with GMSK Modulation			
	GSM 850MHz:			
	Tx: 824.20 - 848.80MHz (at intervals of 200kHz);			
	Rx: 869.20 - 893.80MHz (at intervals of 200kHz)			
	GSM 1900MHz:			
	Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);			
	Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)			
	WCDMA 850MHz			
Operating Frequency Range:	Tx: 826.4 - 846.6MHz (at intervals of 200kHz);			
	Rx: 871.4 - 891.6MHz (at intervals of 200kHz)			
	WCDMA 1700MHz			
	Tx: 1712.4 – 1752.6MHz (at intervals of 200kHz);			
	Rx: 2112.4 - 2152.6MHz (at intervals of 200kHz)			
	WCDMA 1900MHz			
	Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz);			
	Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)			
Multi-slot Class:	GPRS: Multislot Class12; EGPRS: Multislot Class12			
Emission Designators	GSM 850:248KGXW,GSM 1900:247KGXW			
Emission Designators:	EGPRS850:250KG7W, EGPRS1900:254KG7W,			



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	WCDMA 850:4M21F9W , WCDMA1700:4M52F9W				
	WCDMA1900:4M22F9W				
Antenna Type:	PIFA Antenna				
Antenna Gain:	0.49 dBi				
	Normal(NV): 3.8V				
Operating voltage:	Lowest(LV):	3.6V			
	Highest(HV):	4.35V			

- Note 1: The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula F(n)=824.2+0.2*(n-128), 128<=n<=251; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190 (836.6MHz) and 251 (848.8MHz).
- Note 2: The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula F(n)=1850.2+0.2*(n-512), 512<=n<=810; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).
- Note 3: The transmitter (Tx) frequency arrangement of the WCDMA 850MHz band used by the EUT can be represented with the formula F(n)=826.4+0.2*(n-4132), 4132<=n<=4233; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4175(835MHz) and 4233 (846.6MHz).
- Note 4: The transmitter (Tx) frequency arrangement of the WCDMA 1900MHz band used by the EUT can be represented with the formula F(n)=1852.4+0.2*(n-9262), 9262<=n<=9538; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).
- *Note 5:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CED Dort 2 (40.4.42 Edition)	Frequency Allocations and Radio Treaty Matters;
1	47 CFR Part 2 (10-1-12 Edition)	General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-12 Edition)	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	
1	2.1046	Conducted RF	Dec 26, 2017	Li lingzona	PASS	
ı	2.1040	Output Power	Feb 05,2018	Li Jingzong	PASS	
2	24.232(d)	Peak - Average	Jan 08, 2018	Li lingzong	PASS	
2	27.50(d)	Radio	Feb 05,2018	Li Jingzong	PASS	
3	2.4040	99% Occupied	Jan 08, 2018	Li lingzong	DACC	
3	2.1049	Bandwidth	Feb 05,2018	Li Jingzong	PASS	
4	2.1055,22.355,	Fraguanay Stability	lon 09 2019	Li lingzong	DASS	
4	24.235,27.54	Frequency Stability	Jan 08, 2018	Li Jingzong	PASS	
5	2.1051, 22.917(a),	Conducted Out of	Jan 08, 2018	Li lingzong	DACC	
5	24.238(a), 27.53(h)	Band Emissions	Feb 05,2018	Li Jingzong	PASS	
6	2.1051, 22.917(a),	Dand Edga	Jan 08, 2018	Tu Vo'non	PASS	
О	24.238(a), 27.53(h)	Band Edge	Apr 17, 2018	Tu Ya'nan	PASS	
7	22.012(a) 24.222(a)	Transmitter Radiated	Jan 20, 2018	Mu Zhogowon	PASS	
	22.913(a), 24.232(a)	Power (EIPR/ERP)	Mar 14, 2018	Wu Zhognwen	FASS	
0	2.1051, 22.917(a),	Radiated Out of	Jan 04&08,	Mu Zhogowon	DASS	
8	24.238(a), 27.53(h)	Band Emissions	2018	Wu Zhognwen	PASS	

Note: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.



1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR Part 2, Part 22H & 24E Requirements

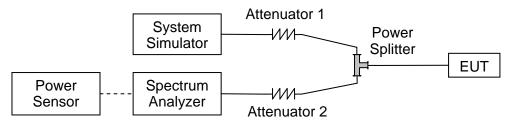
2.1. Conducted RF Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



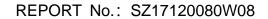
2.1.3. Test Results

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

GSM Test Verdict:

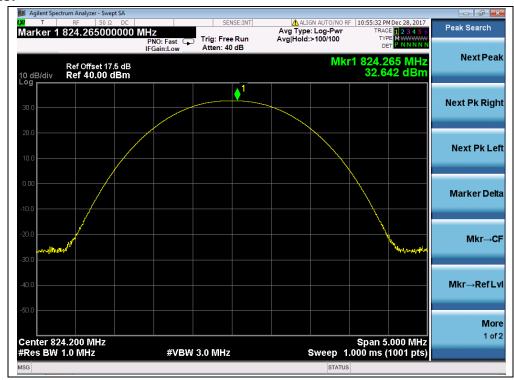
Band	Channel	Frequency	Measured	d Output Power	Limit	Verdict	
Danu	Chamer	(MHz) dBm Refer		Refer to Plot	dBm	Verdict	
CCM	128	824.2	32.64			PASS	
GSM 850MHz	190	836.6	32.76	Plot A1 to A3	35	PASS	
OSUMITZ	251	848.8	32.68			PASS	
CCM	512	1850.2	27.16			PASS	
GSM 1900MHz	661	1880.0	26.99	Plot B1 to B3	32	PASS	
1900101112	810	1909.8	26.72			PASS	
CDDC	128	824.2	32.67		35	PASS	
GPRS 850MHz	190	836.6	32.78	Plot C1 to C3 ^{Note 1}		PASS	
OSUMITZ	251	848.8	32.71			PASS	
CDDS	512	1850.2	27.22		32	PASS	
GPRS 1900MHz	661	1880.0	27.13	Plot D1 to D3 ^{Note 1}		PASS	
1900101112	810	1909.8	26.86			PASS	
EGPRS	128	824.2	32.86			PASS	
850MHz	190	836.6	32.92	Plot E1 to E3 ^{Note 1}	35	PASS	
OSUMITZ	251	848.8	32.87			PASS	
FODDS	512	1850.2	26.94			PASS	
EGPRS 1900MHz	661	1880.0	26.82	Plot F1 to F3 ^{Note 1}	32	PASS	
1 900 WITTE	810	1909.8	26.66			PASS	

Note 1: For the GPRS and EGPRS model, all the slots were tested and just the worst data was recorded in this report.





Test Plots:



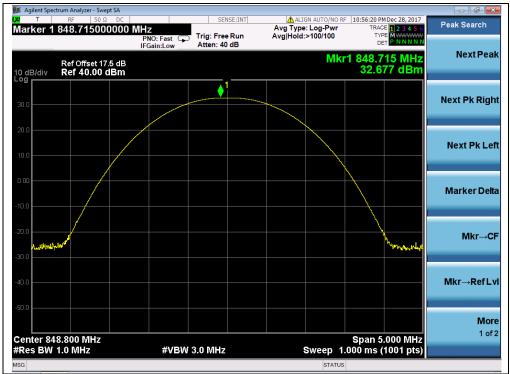
(Plot A1, GSM 850MHz, Channel = 128)



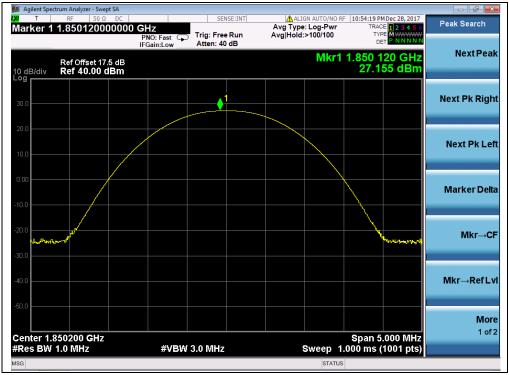
(Plot A2, GSM 850MHz, Channel = 190)







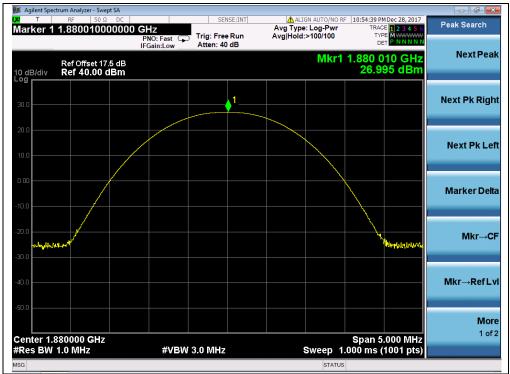
(Plot A3, GSM 850MHz, Channel = 251)



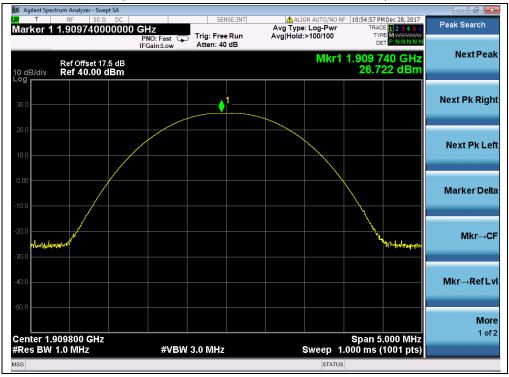
(Plot B1, GSM 1900MHz, Channel = 512)







(Plot B2, GSM 1900MHz, Channel = 661)



(Plot B3, GSM 1900Hz, Channel = 810)







(Plot C1, GPRS 850MHz, Channel = 128)



(Plot C2, GPRS 850MHz, Channel = 190)







(Plot C3, GPRS 850MHz, Channel = 251)



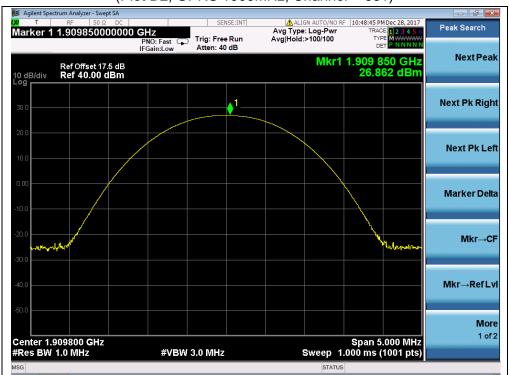
(Plot D1, GPRS 1900MHz, Channel = 512)







(Plot D2, GPRS 1900MHz, Channel = 661)



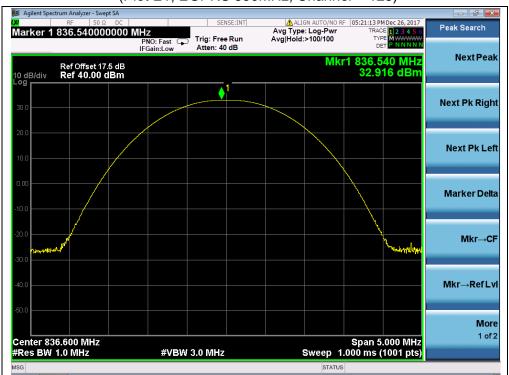
(Plot D3, GPRS 1900MHz, Channel = 810)







(Plot E1, EGPRS 850MHz, Channel = 128)



(Plot E2, EGPRS 850MHz, Channel = 190)







(Plot E3, EGPRS 850MHz, Channel = 251)



(Plot F1, EGPRS 1900MHz, Channel = 512)







(Plot F2, EGPRS 1900MHz, Channel = 661)



(Plot F3, EGPRS 1900Hz, Channel = 810)





WCDMA Test Verdict:

	band	WCDMA 850		WCDMA 1700			WCDMA 1900			
Item	ARFCN	4132	4175	4233	1312	1412	1513	9262	9400	9538
	subtest		dBm			dBm		dBm		
5.2(WCDMA)	non	22.02	21.83	22.32	22.74	22.84	22.90	22.96	22.84	22.76
	1	21.08	20.83	21.08	21.72	21.68	21.80	21.03	21.11	21.06
ПСДВУ	2	21.11	20.87	21.11	21.73	21.71	21.82	21.16	21.16	21.09
HSDPA	3	20.60	20.43	20.64	21.29	21.24	21.34	20.71	20.71	20.64
	4	20.62	20.39	20.63	21.25	21.26	21.32	20.73	20.69	20.57
	1	19.12	18.92	19.14	19.72	19.74	19.76	18.70	18.31	18.71
	2	19.11	18.89	19.09	19.71	19.75	19.79	18.65	18.53	18.78
HSUPA	3	20.14	19.90	20.10	20.77	20.79	20.83	19.67	19.70	19.84
	4	1843	18.62	19.50	19.21	19.25	19.26	18.23	18.10	18.24
	5	20.86	21.07	21.50	21.70	21.74	21.77	20.62	20.76	20.78
HSPA+	1	20.10	20.29	20.50	21.34	21.31	21.32	20.11	20.18	20.03



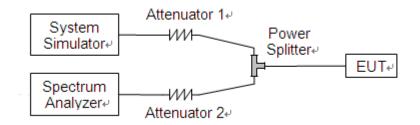
2.2. Peak to Average Radio

2.2.1. Requirement

According to FCC 24.232(d) the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.2.3. Test procedure

- 1 .For GSM/EGPRS operating mode:
- a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- b. Set EUT in maximum output power, and triggered the bust signal.
- c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average radio.
- 2. For UMTS operating mode:
- a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.



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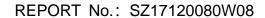


2.2.4. Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

A. Test Verdict:

Dond	Channel	Frequency	Peak to A	Average radio	Limit	- Verdict
Band	Channel	(MHz)	dB	Refer to Plot	dB	verdict
GSM	512	1850.2	0.40			PASS
1900MHz	661	1880.0	0.03	Plot A1 to A3	13	PASS
1900101112	810	1909.8	0.06			PASS
EGPRS	512	1850.2	0.01			PASS
1900MHz	661	1880.0	0.02	Plot B1 to B3	13	PASS
1900101112	810	1909.8	0.01			PASS
WCDMA	9262	1852.4	2.84			PASS
1900MHz	9400	1880.0	2.82	Plot C1 to C3	13	PASS
1900101112	9538	1907.6	2.87			PASS
MCDMA	1312	1712.4	1.66			PASS
WCDMA	1412	1732.4	1.75	Plot D1 to D3	13	PASS
1700MHz	1513	1752.6	1.69			PASS





B. Test Plots:



(Plot A1, GSM 1900 MHz, Channel = 512)





(Plot A2, GSM 1900 MHz, Channel = 661)



Tel: 86-755-36698555





(Plot A3, GSM 1900MHz, Channel = 810)



Tel: 86-755-36698555





(Plot B1, EGPRS 1900 MHz, Channel = 512)



Tel: 86-755-36698555





(Plot B2, EGPRS 1900 MHz, Channel = 661)



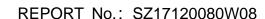




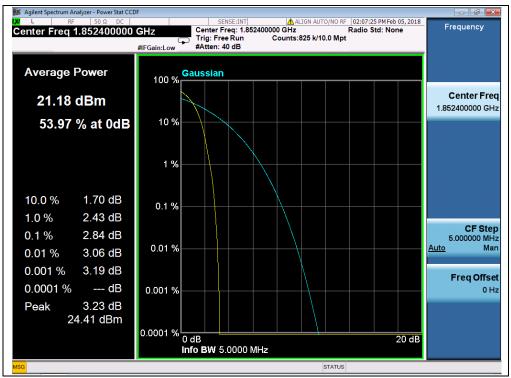
(Plot B3, EGPRS 1900MHz, Channel = 810)



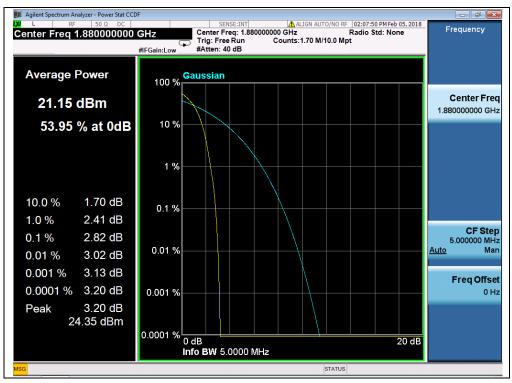
Tel: 86-755-36698555







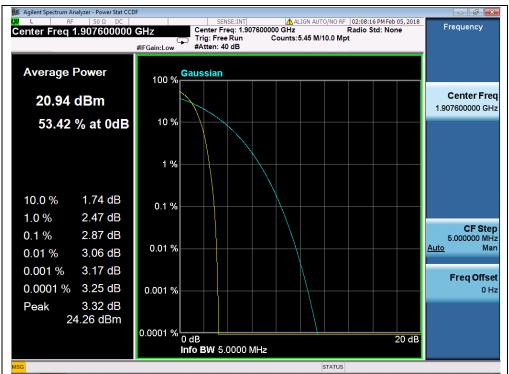
(Plot C1, WCDMA 1900MHz, Channel = 9262)



(Plot C2, WCDMA 1900MHz, Channel = 9400)

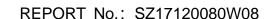




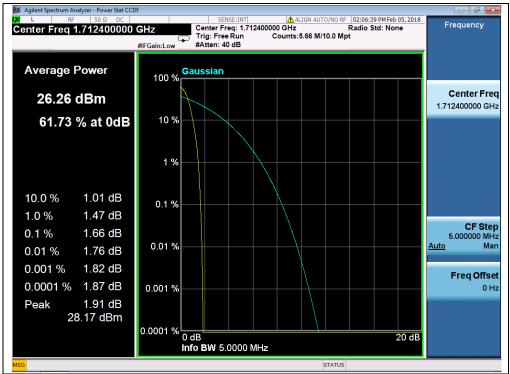


(Plot C3, WCDMA 1900MHz, Channel = 9538)

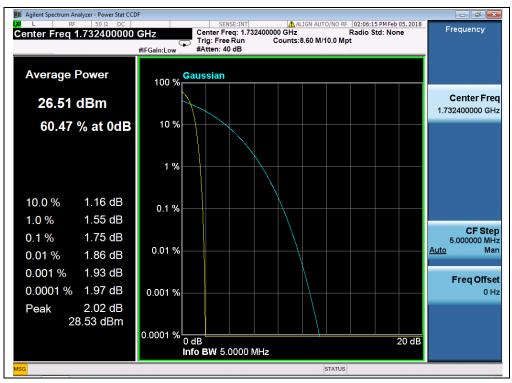








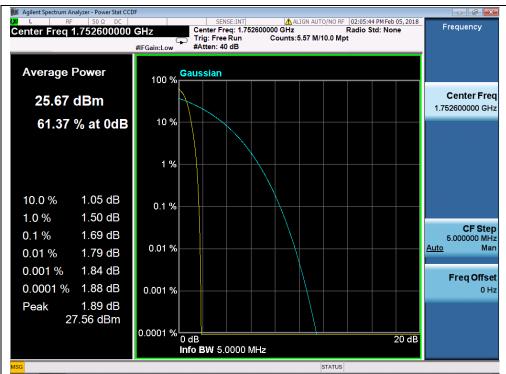
(Plot D1, WCDMA 1700MHz, Channel = 1312)



(Plot D2, WCDMA 1700MHz, Channel = 1412)







(Plot D3, WCDMA 1700MHz, Channel = 1513)





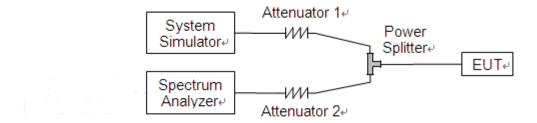
2.3. 99% Occupied Bandwidth

2.3.1. Requirement

According to FCC section 2.1049 and FCC § 22.917 &24.238, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



2.3.3. Test Result

The lowest, middle and highest channels are selected to perform testing to record the 99% occupied bandwidth.

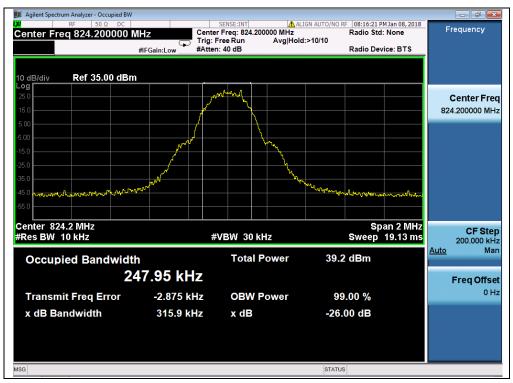
GSM Test Verdict:

Band	Channel	Frequency	26dB bandwidth	99% Occupied	Refer to
Danu	Channe	(MHz)	(kHz)	Bandwidth (kHz)	Plot
CCM	128	824.2	315.9	247.95	Diet
GSM 850MHz	190	836.6	310.1	242.86	Plot A1 to A3
OSUMINZ	251	848.8	312.4	244.38	ATIOAS
CCM	512	1850.2	314.0	242.18	Diet
GSM 1900MHz	661	1880.0	312.9	247.37	Plot B1 to B3
1900IVITZ	810	1909.8	318.2	246.26	D110 D3
CDDC	128	824.2	321.4	247.78	Diet
GPRS 850MHz	190	836.6	325.1	246.98	Plot C1 to C3
OSUMINZ	251	848.8	318.1	244.90	C110 C3
GPRS	512	1850.2	320.7	244.96	Plot
1900MHz	661	1880.0	324.0	246.54	D1 to D3
1900101112	810	1909.8	311.9	245.34	כם טוום
EGPRS	128	824.2	314.4	247.98	Plot
850MHz	190	836.6	311.3	247.09	E1 to E3
OSUMINZ	251	848.8	318.0	249.58	EIRES
EGPRS	512	1850.2	318.5	246.54	Dlot
	661	1880.0	321.4	253.82	Plot F1 to F3
1900MHz	810	1909.8	319.5	247.74	111013

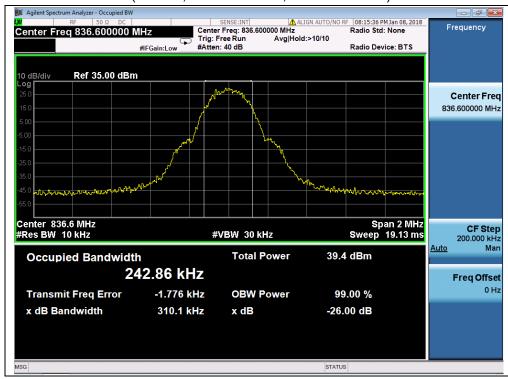




Test Plots:



(Plot A1, GSM 850MHz, Channel = 128)



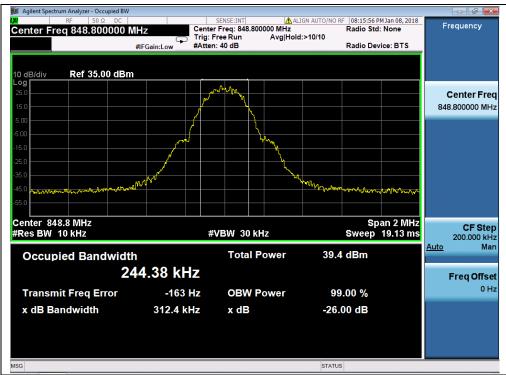
(Plot A2, GSM 850MHz, Channel = 190)



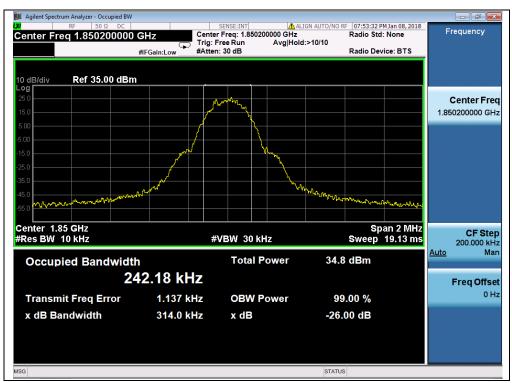
Tel: 86-755-36698555







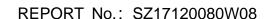
(Plot A3, GSM 850MHz, Channel = 251)



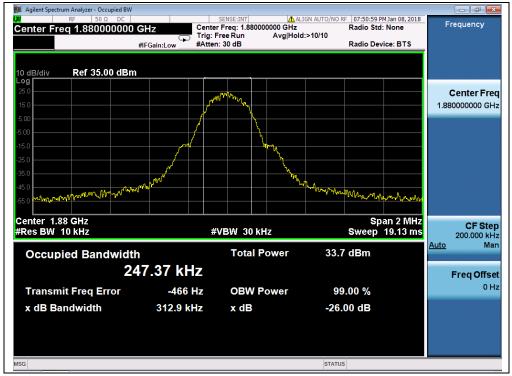
(Plot B1, GSM1900MHz, Channel = 512)



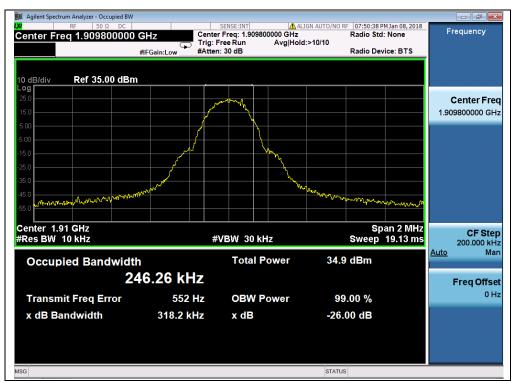
Tel: 86-755-36698555





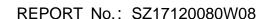


(Plot B2, GSM1900MHz, Channel = 661)

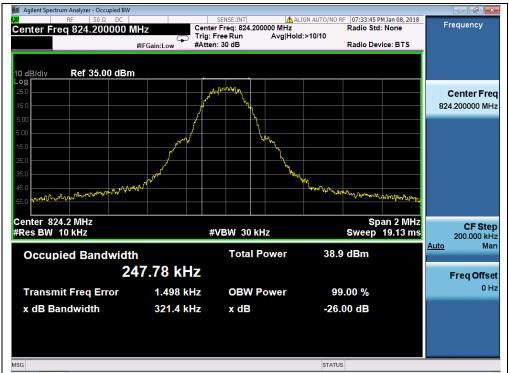


(Plot B3, GSM 1900MHz, Channel = 810)

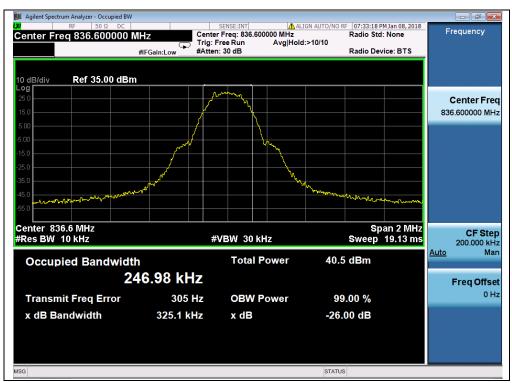






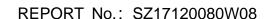


(Plot C1, GPRS 850MHz, Channel = 128)

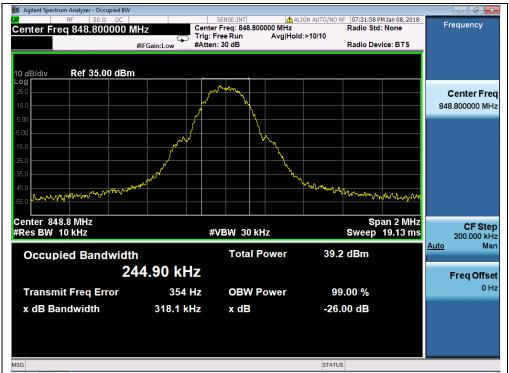


(Plot C2, GPRS 850MHz, Channel = 190)

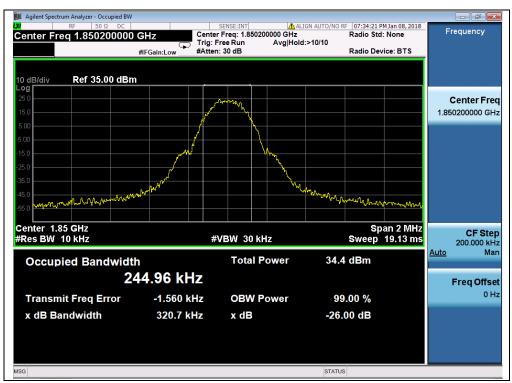








(Plot C3, GPRS 850MHz, Channel = 251)

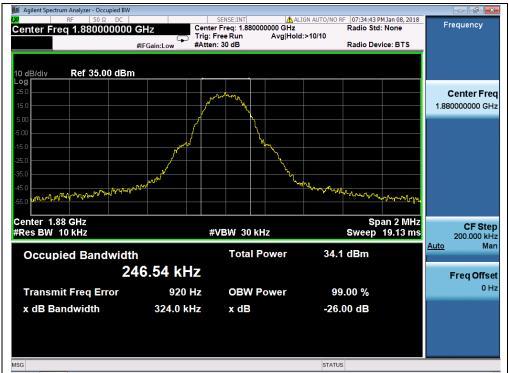


(Plot D1, GPRS1900MHz, Channel = 512)

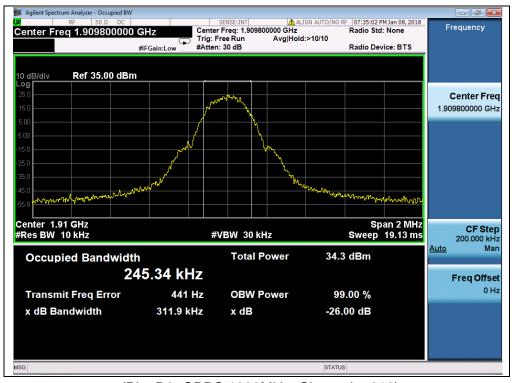








(Plot D2, GPRS1900MHz, Channel = 661)

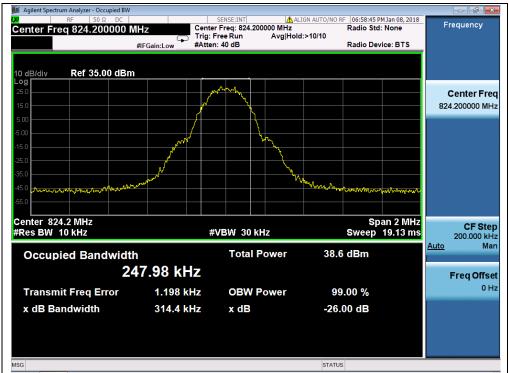


(Plot D3, GPRS 1900MHz, Channel = 810)

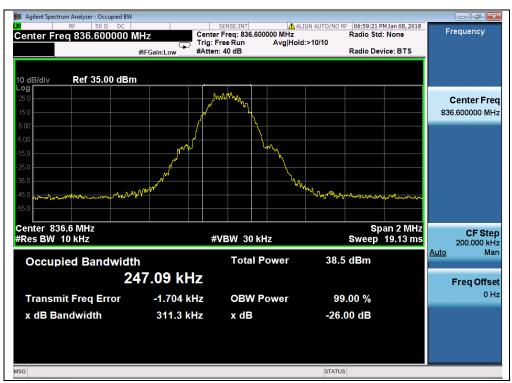








(Plot E1, EGPRS 850MHz, Channel = 128)

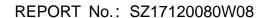


(Plot E2, EGPRS 850MHz, Channel = 190)

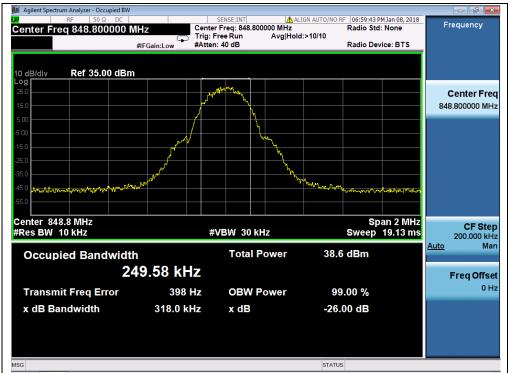


Http://www.morlab.cn

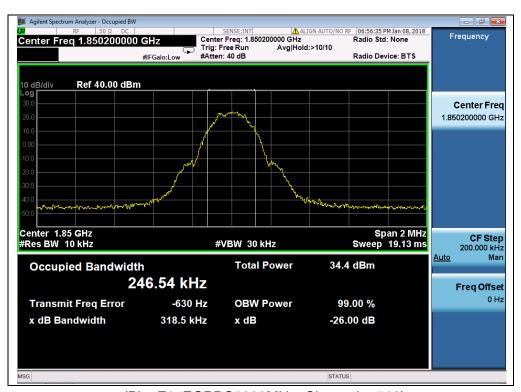
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(Plot E3, EGPRS 850MHz, Channel = 251)



(Plot F1, EGPRS1900MHz, Channel = 512)

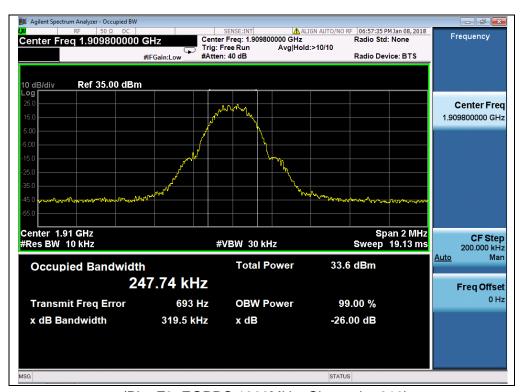








(Plot F2, EGPRS1900MHz, Channel = 661)



(Plot F3, EGPRS 1900MHz, Channel = 810)





WCDMA Test Verdict:

Band	Channel	Frequency	26dB bandwidth	99% Occupied	Refer to
		(MHz)	(MHz)	Bandwidth (MHz)	Plot
WCDMA 850MHz	4132	826.4	4.819	4.2051	Plot G1 to G3
	4175	835.0	4.833	4.2058	
	4233	846.6	4.829	4.2127	
WCDMA 1700MHz	1312	1712.4	8.755	4.4990	Plot H1 to H3
	1412	1732.4	6.566	4.3617	
	1513	1752.6	8.627	4.4672	
WCDMA 1900MHz	9262	1852.4	4.851	4.2136	Plot I1 to I3
	9400	1880.0	4.836	4.2006	
	9538	1907.6	4.868	4.2143	
HSDPA 850MHz	4132	826.4	4.824	4.2143	Plot J1 to J3
	4175	835.0	4.834	4.2118	
	4233	846.6	4.807	4.2029	
HSDPA 1700MHz	1312	1712.4	8.428	4.5153	Plot K1 to K3
	1412	1732.4	6.530	4.3620	
	1513	1752.6	8.065	4.4032	
HSDPA 1900MHz	9262	1852.4	4.817	4.1958	Plot L1 to L3
	9400	1880.0	4.840	4.2202	
	9538	1907.6	4.864	4.2070	
HSUPA 850MHz	4132	826.4	4.800	4.1969	Plot M1 to M3
	4175	835.0	4.799	4.2132	
	4233	846.6	4.796	4.1979	
HSUPA 1700MHz	1312	1712.4	8.944	4.5231	Plot N1 to N3
	1412	1732.4	7.818	4.4064	
	1513	1752.6	8.501	4.4367	
HSUPA 1900MHz	9262	1852.4	4.824	4.1979	Plot O1 to O3
	9400	1880.0	4.832	4.2070	
	9538	1907.6	4.812	4.2178	



Band	Channel	Frequency	26dB bandwidth	99% Occupied	Refer to
		(MHz)	(MHz)	Bandwidth (MHz)	Plot
HSPA+ 850MHz	4132	826.4	4.824	4.1990	Plot P1 to P3
	4175	835.0	4.807	4.1894	
	4233	846.6	4.814	4.1845	
HSPA+ 1700MHz	1312	1712.4	8.294	4.4494	Plot Q1 to Q3
	1412	1732.4	5.103	4.3331	
	1513	1752.6	6.481	4.3739	
HSPA+ 1900MHz	9262	1852.4	4.847	4.2076	Plot R1 to R3
	9400	1880.0	4.824	4.2127	
	9538	1907.6	4.824	4.2208	

Test Plots:



(Plot G1, WCDMA 850MHz, Channel = 4132)







(Plot G2, WCDMA 850 MHz, Channel = 4175)



(Plot G3, WCDMA 850MHz, Channel = 4233)







(Plot H1, WCDMA 1700MHz, Channel = 1312)



(Plot H2, WCDMA 1700 MHz, Channel = 1412)



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(Plot H3, WCDMA1700MHz, Channel = 1513)



(Plot I1, WCDMA 1900MHz, Channel = 9262)



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(Plot I2, WCDMA 1900 MHz, Channel = 9400)



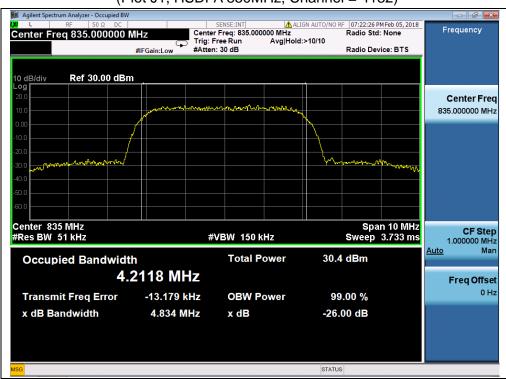
(Plot I3, WCDMA1900MHz, Channel = 9538)







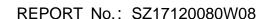
(Plot J1, HSDPA 850MHz, Channel = 4132)



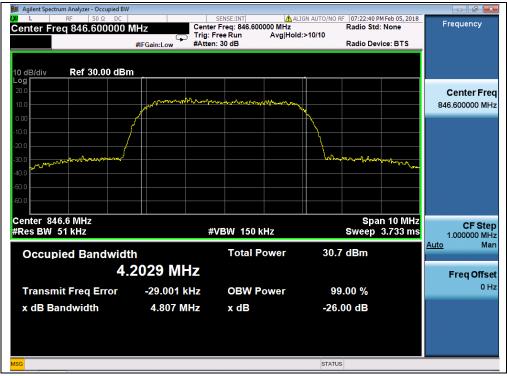
(Plot J2, HSDPA 850 MHz, Channel = 4175)



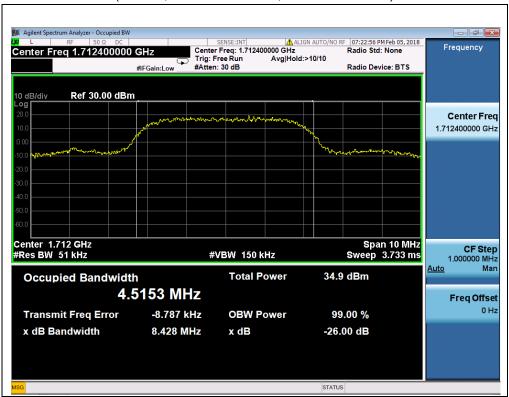
Tel: 86-755-36698555







(Plot J3, HSDPA 850MHz, Channel = 4233)



(Plot K1, HSDPA 1700MHz, Channel = 1312)

