

FCC Test Report

ANNEX 3 GSM&WCDMA

FCC ID: 2A8NR-Z91

Applicant: ShenZhen ZCS Technology CO.,LTD

Address: 202C, G2 Building, TCL World E City, Zhongshan Yuan Road, Nanshan District, Shenzhen, China.

Manufacturer: ShenZhen ZCS Technology CO.,LTD

Address: 202C, G2 Building, TCL World E City, Zhongshan Yuan Road, Nanshan District, Shenzhen, China.

EUT: Smart Pos

Trade Mark: ZCS

Model Number: Z91
Z90, Z92, Z93, Z100, Z70

Date of Receipt: Apr. 15, 2022

Test Date: Apr. 15, 2022 – May. 05, 2022

Date of Report: Sep. 05, 2022

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27
ANSI/TIA-603-E-2016
FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01
ANSI C63.26:2015

Test Result: Pass

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1. EMISSION TEST RESULTS

1.1. -26dB and 99% Occupied Bandwidth

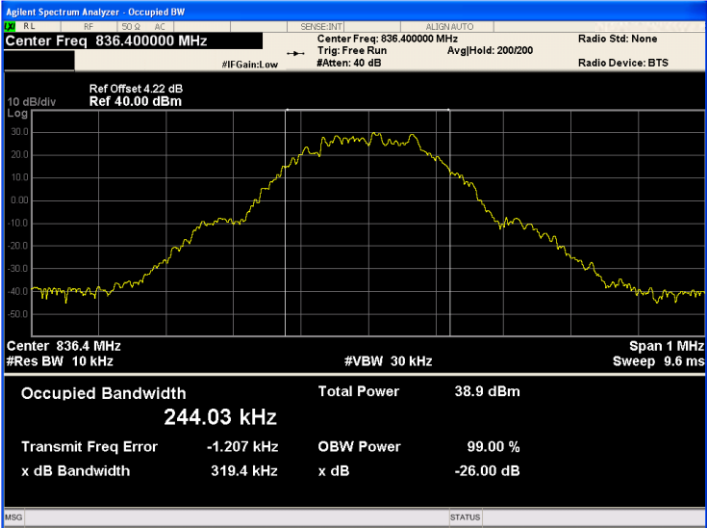
1.1.1. Test Result

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
GSM 850	128	824.20	245.115	311.637
	190	836.60	244.034	319.386
	251	848.80	244.458	309.645
GSM 850 (EGPRS 8 link)	128	824.20	245.285	308.583
	190	836.60	249.532	320.906
	251	848.80	249.152	311.978
PCS 1900	512	1850.20	245.327	311.468
	661	1880.00	242.511	319.260
	810	1909.80	250.458	312.081
PCS 1900 (EGPRS 8 link)	512	1850.20	243.629	317.071
	661	1880.00	245.222	312.878
	810	1909.80	247.218	315.925
WCDMA Band 2 (RMC 12.2Kbps link)	9262	1852.4	4179.044	4683.103
	9400	1880.0	4170.991	4729.093
	9538	1907.6	4177.234	4720.507
WCDMA Band 5 (RMC 12.2Kbps link)	9262	1852.4	4161.560	4678.213
	9400	1880.0	4168.150	4718.969
	9538	1907.6	4176.406	4691.189

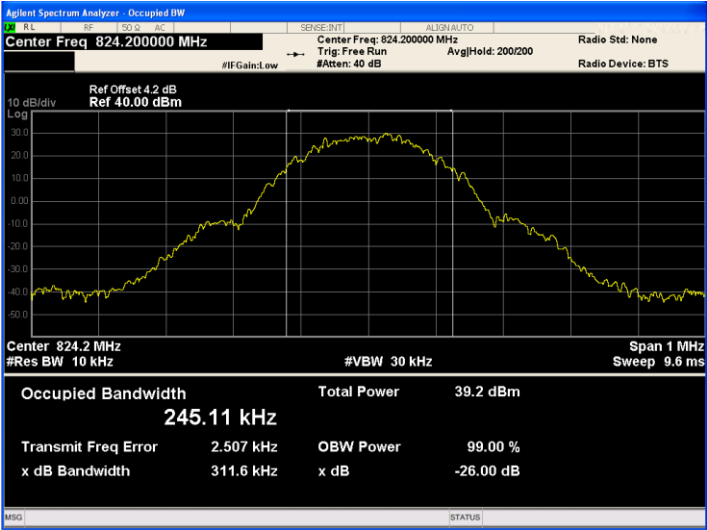
Note: Measurement Uncertainty: $\pm 20\text{Hz}$.

Test plot as follows:

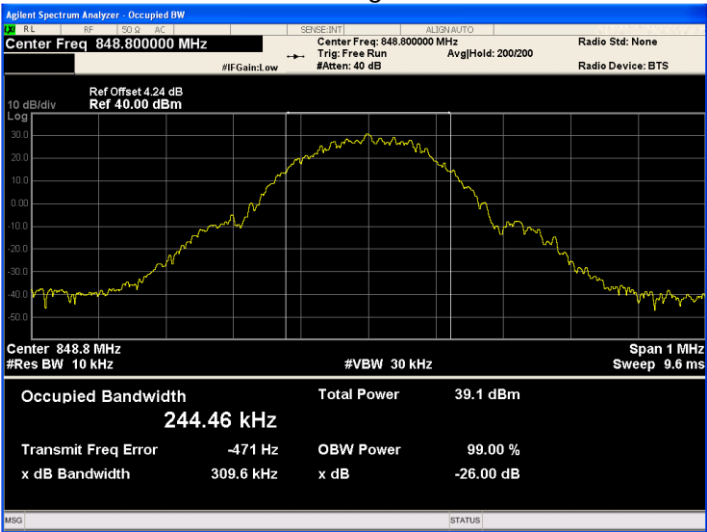
GPRS 850MHz Lowest channel



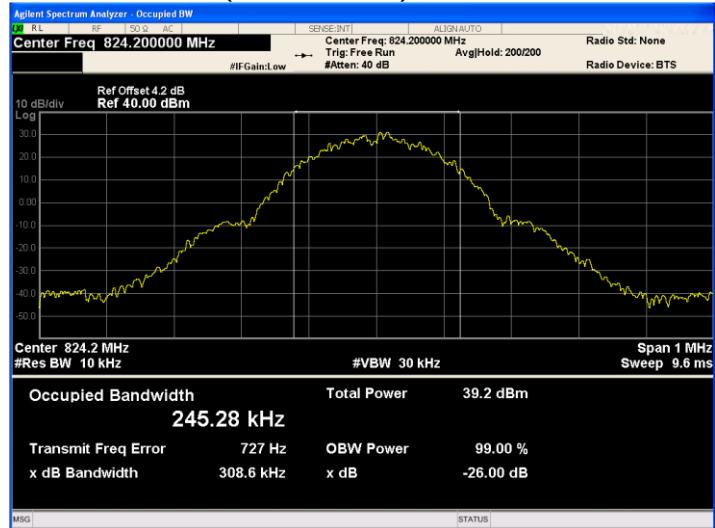
GPRS 850MHz Middle channel



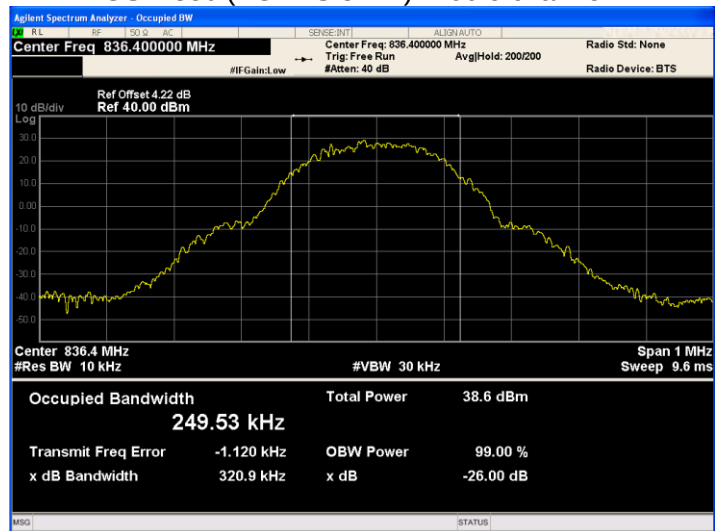
GPRS 850MHz Highest channel:



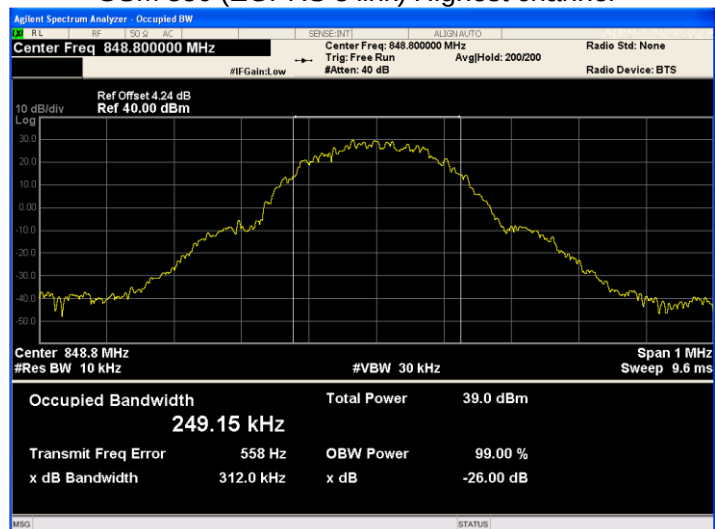
GSM 850 (EGPRS 8 link) Lowest channel



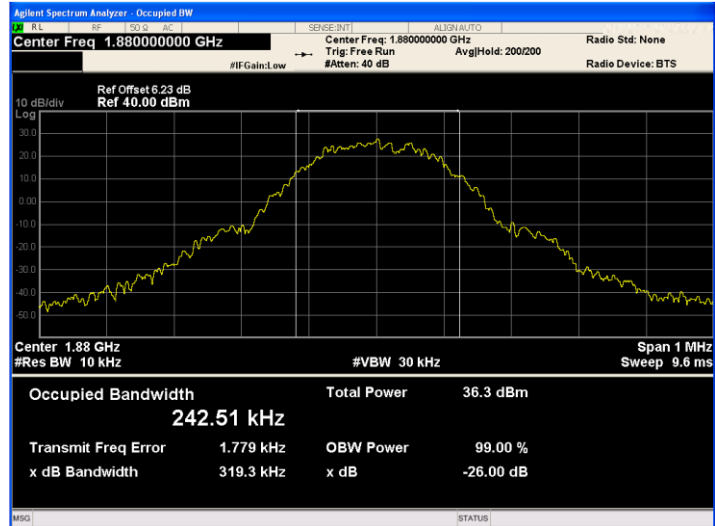
GSM 850 (EGPRS 8 link) Middle channel



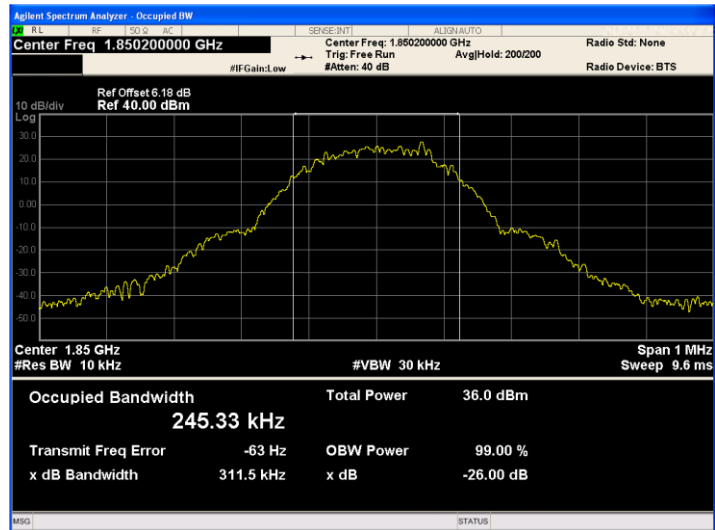
GSM 850 (EGPRS 8 link) Highest channel



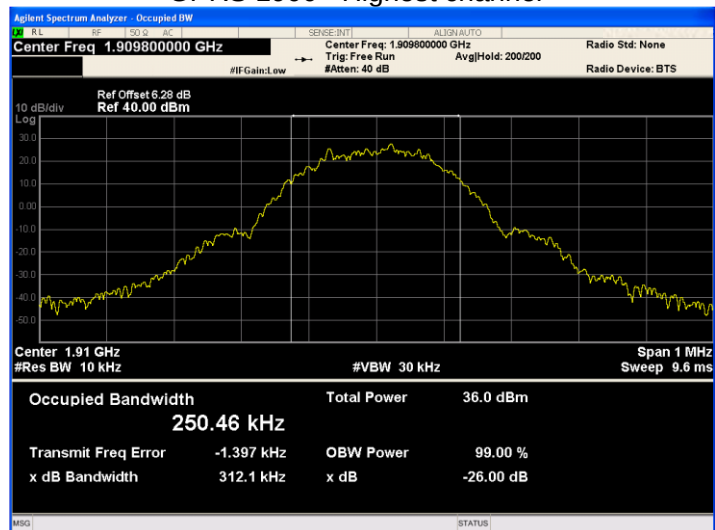
GPRS 1900 Lowest channel



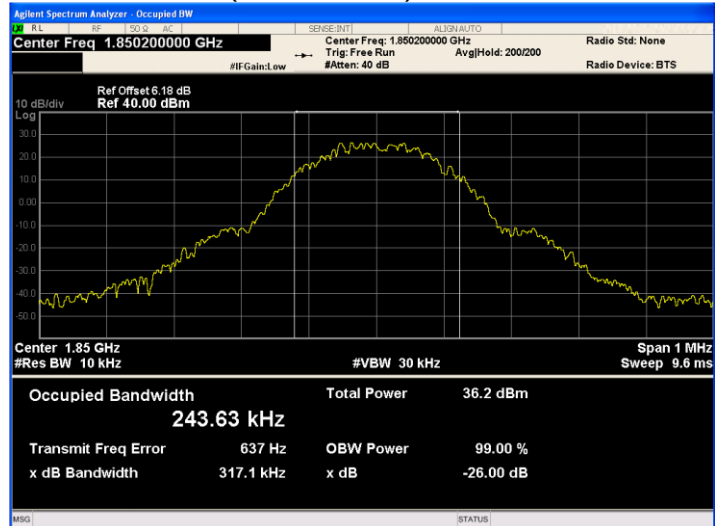
GPRS 1900 Middle channel



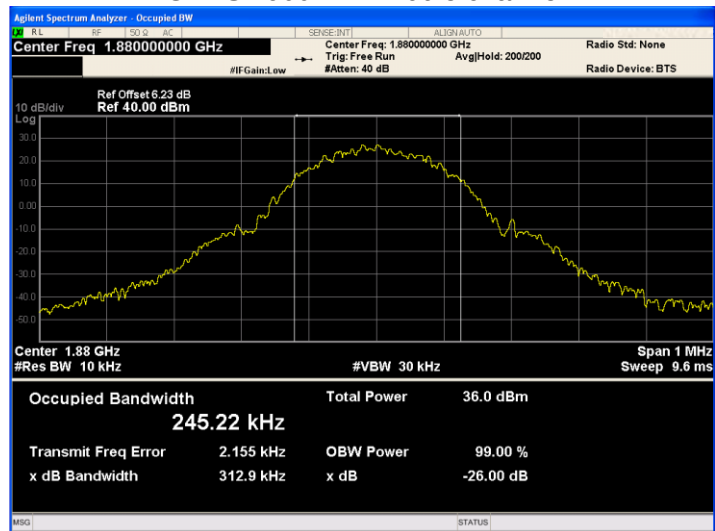
GPRS 1900 Highest channel



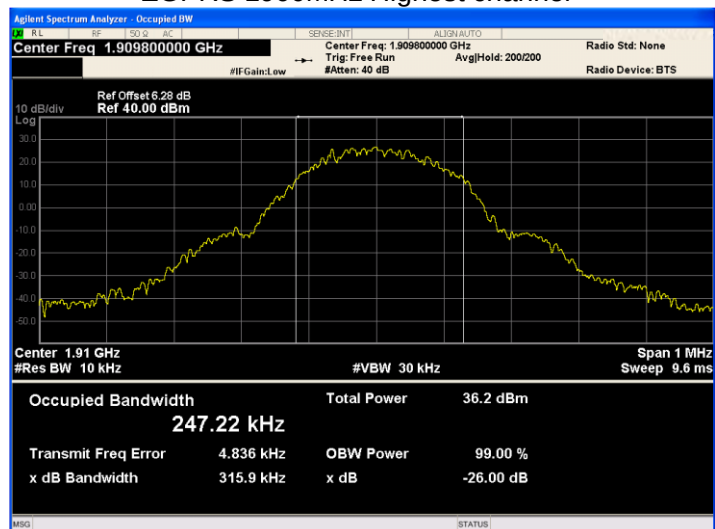
PCS 1900 (EGPRS 8 link) Lowest channel



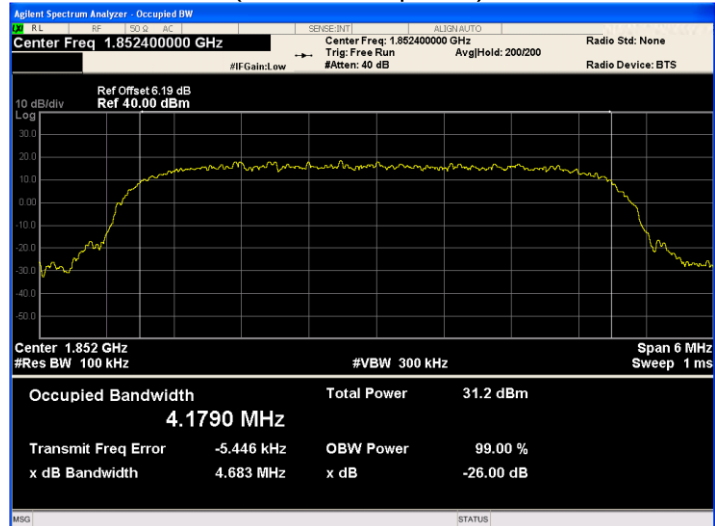
EGPRS 1900MHz Middle channel



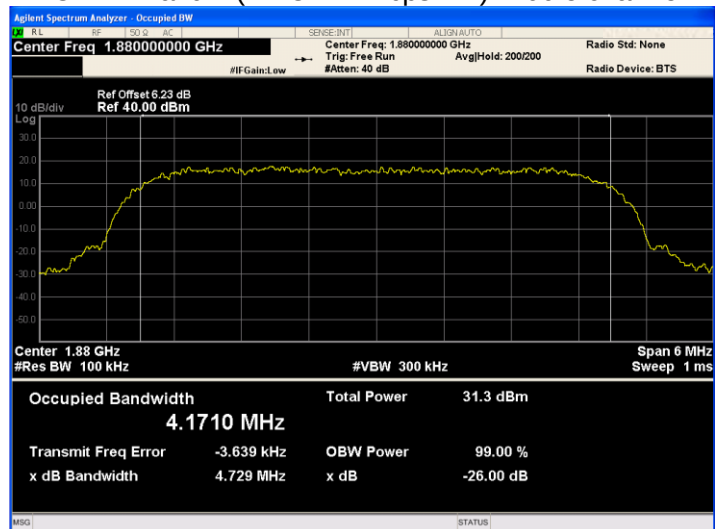
EGPRS 1900MHz Highest channel



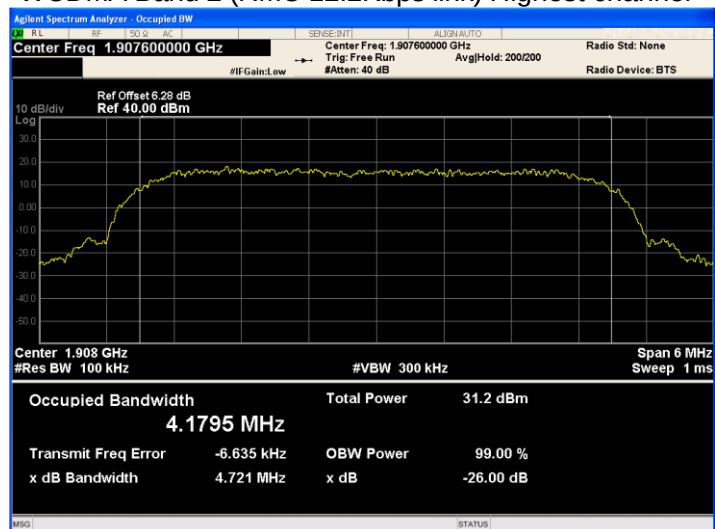
WCDMA Band 2 (RMC 12.2Kbps link) Lowest channel



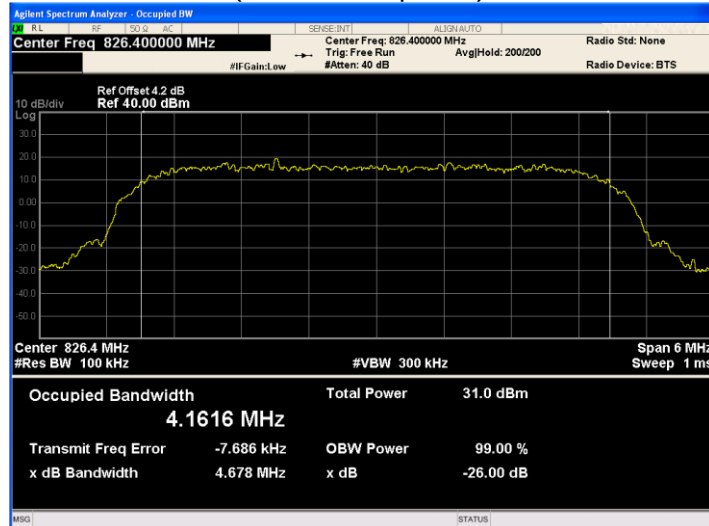
WCDMA Band 2 (RMC 12.2Kbps link) Middle channel



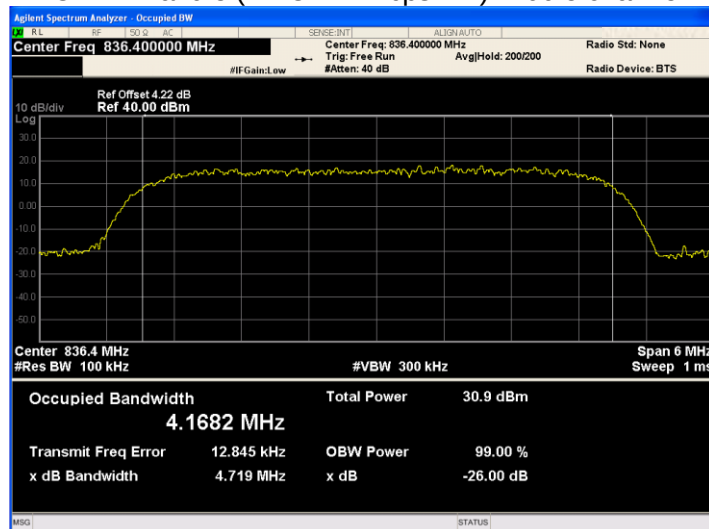
WCDMA Band 2 (RMC 12.2Kbps link) Highest channel



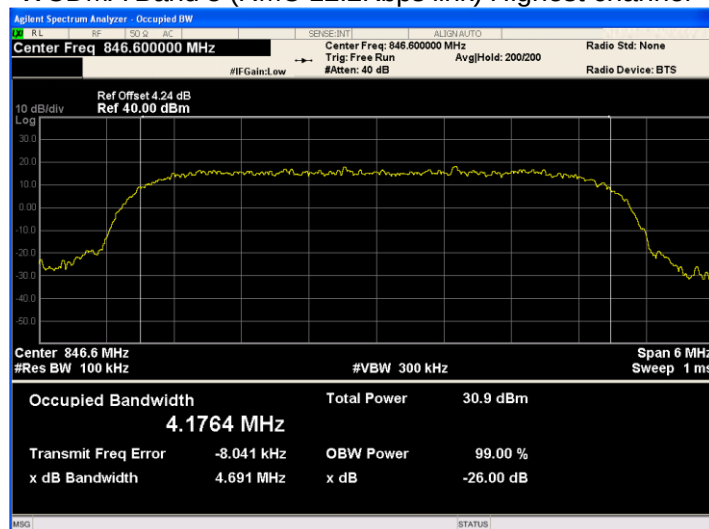
WCDMA Band 5 (RMC 12.2Kbps link) Lowest channel



WCDMA Band 5 (RMC 12.2Kbps link) Middle channel



WCDMA Band 5 (RMC 12.2Kbps link) Highest channel

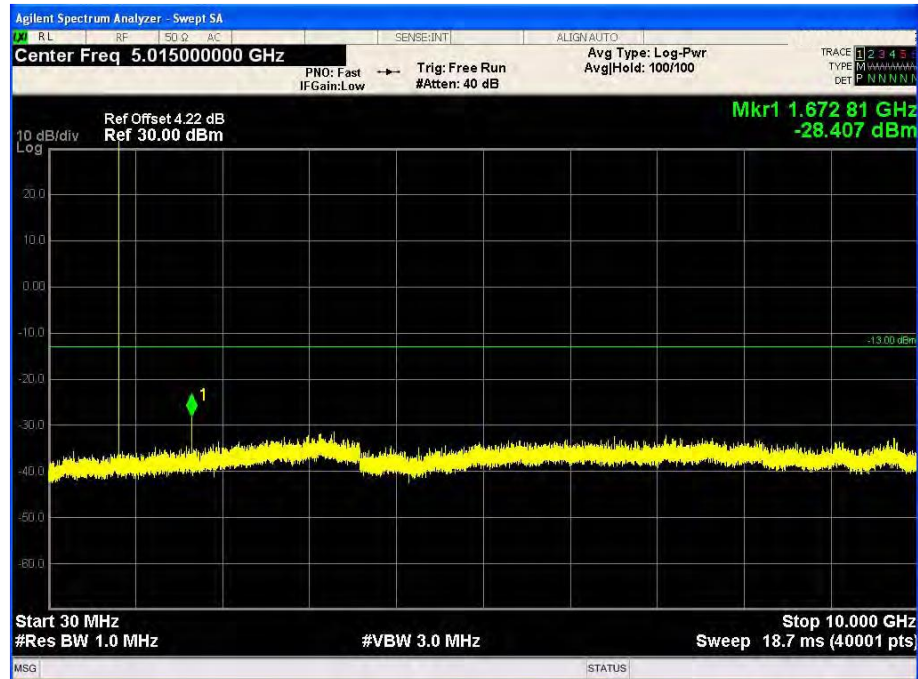


1.2. Conducted Spurious Emissions

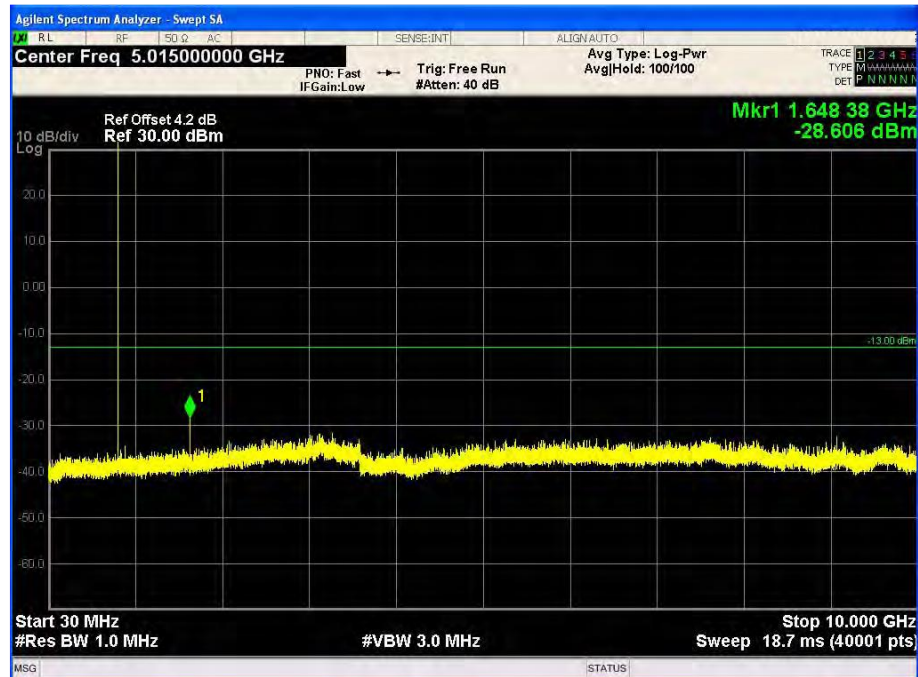
1.2.1. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

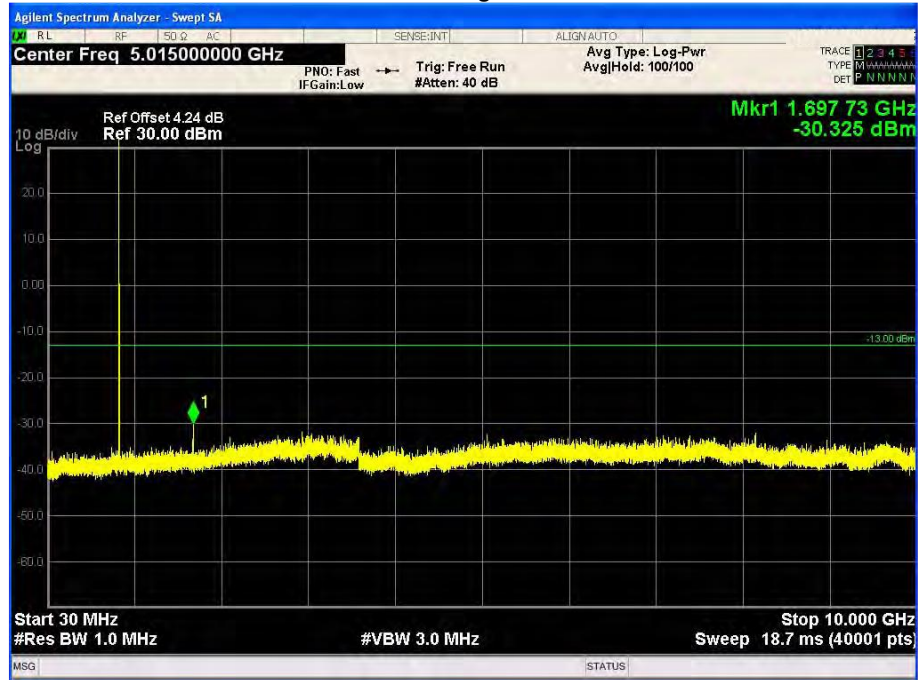
GPRS 850MHz Lowest channel



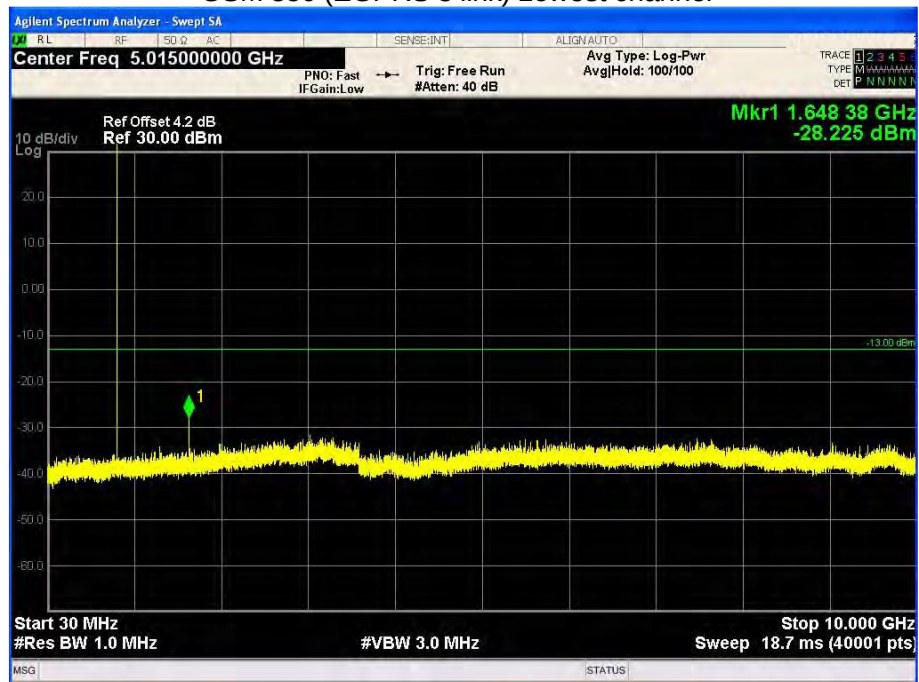
GPRS 850MHz Middle channel



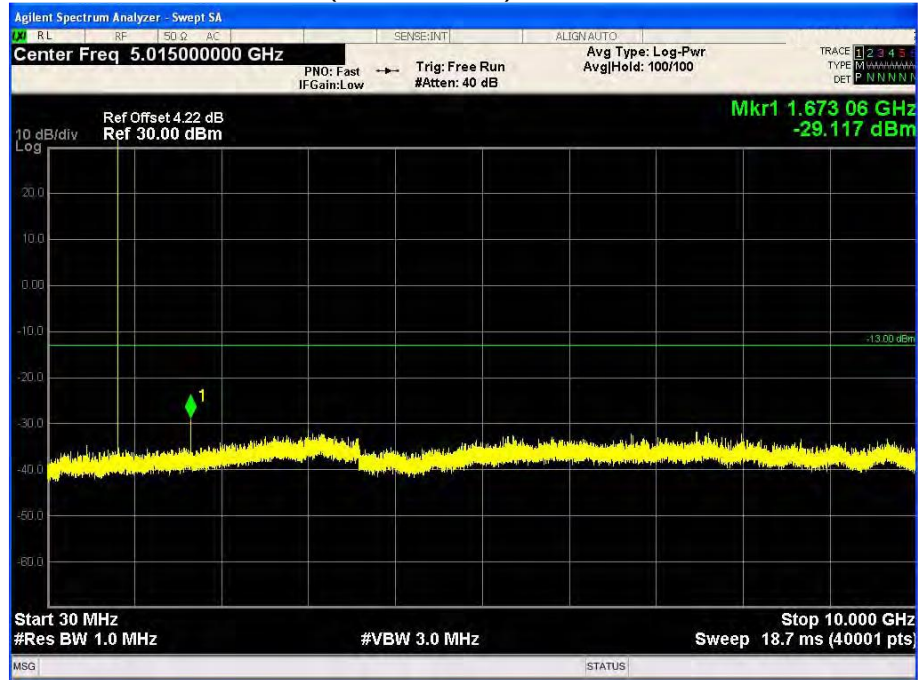
GPRS 850MHz Highest channel:



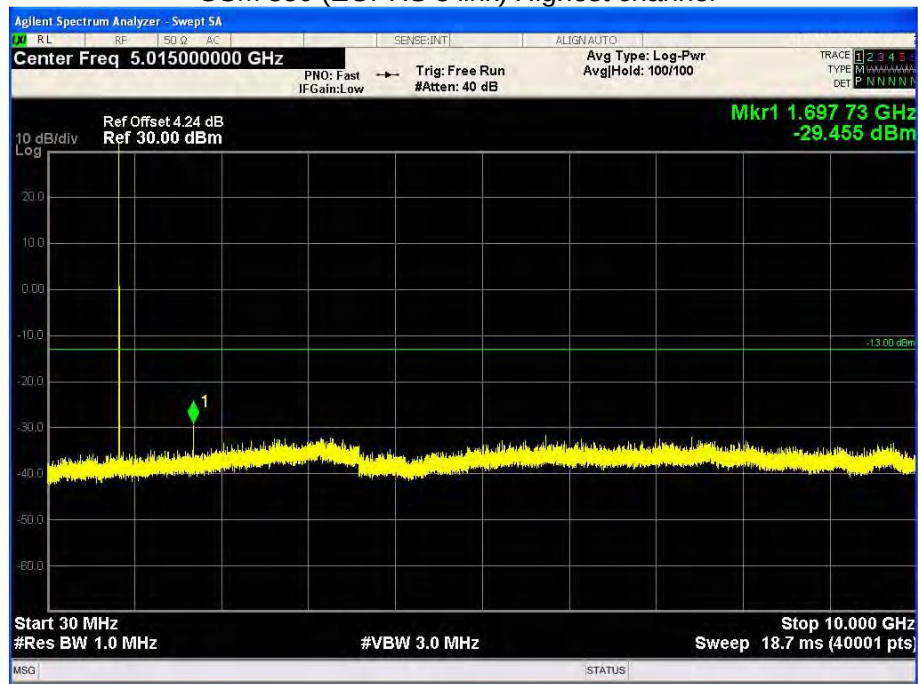
GSM 850 (EGPRS 8 link) Lowest channel



GSM 850 (EGPRS 8 link) Middle channel



GSM 850 (EGPRS 8 link) Highest channel



GPRS 1900 Lowest channel



GPRS 1900 Middle channel



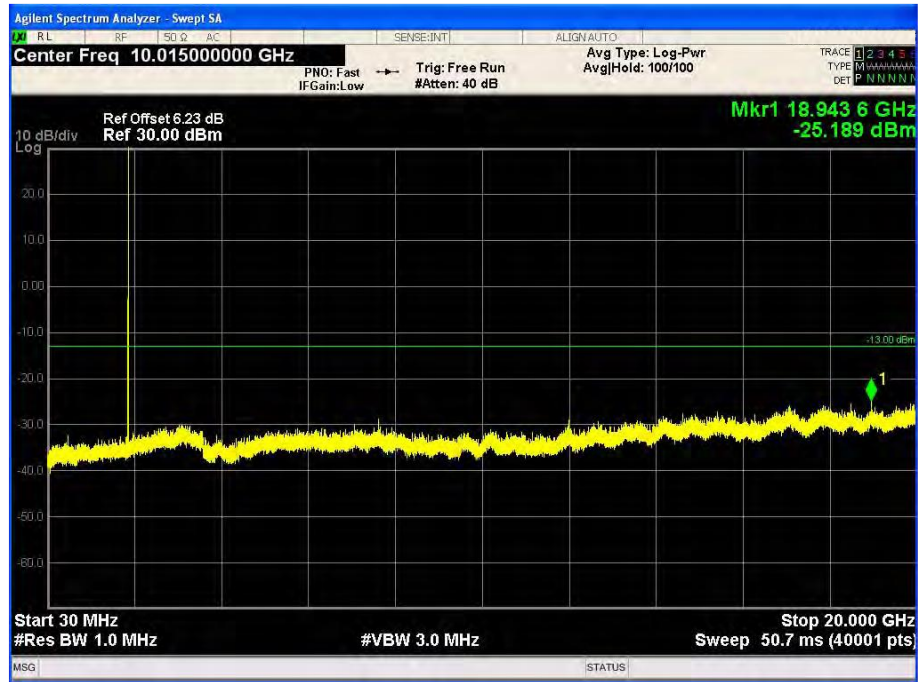
GPRS 1900 Highest channel



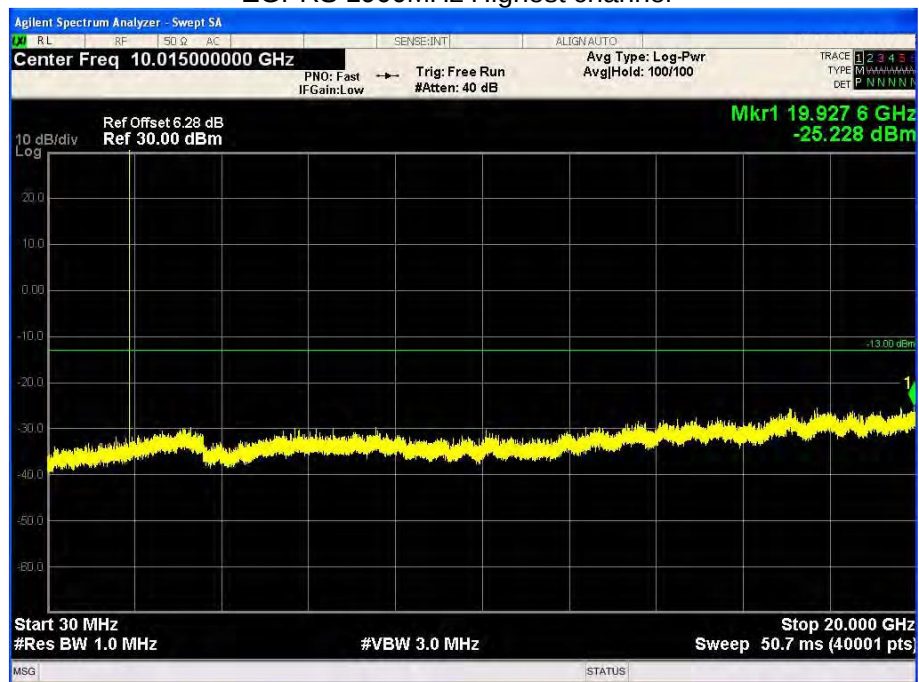
PCS 1900 (EGPRS 8 link) Lowest channel



EGPRS 1900MHz Middle channel



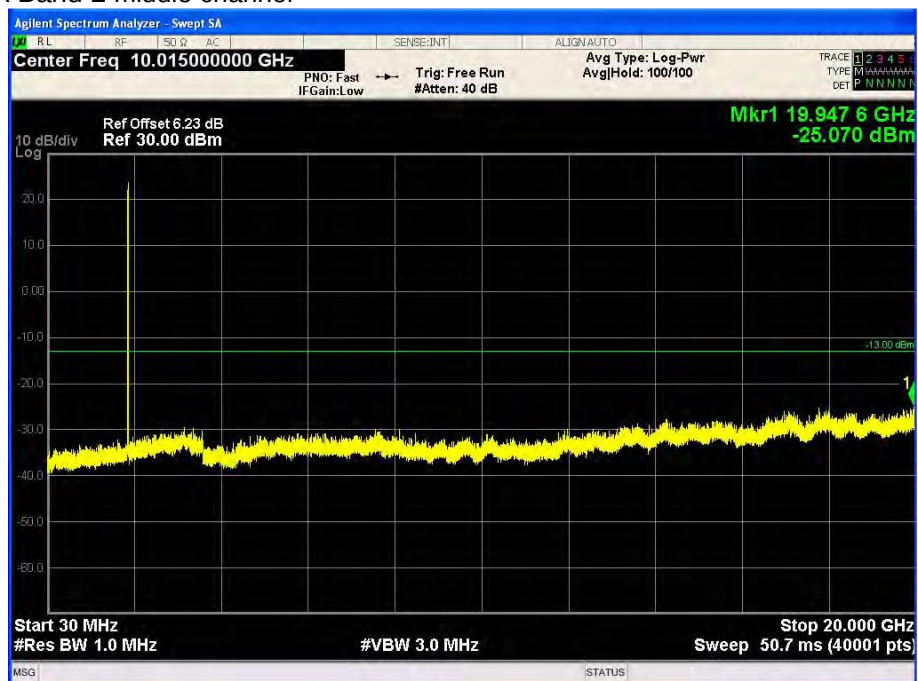
EGPRS 1900MHz Highest channel



WCDMA Band 2 Lowest channel



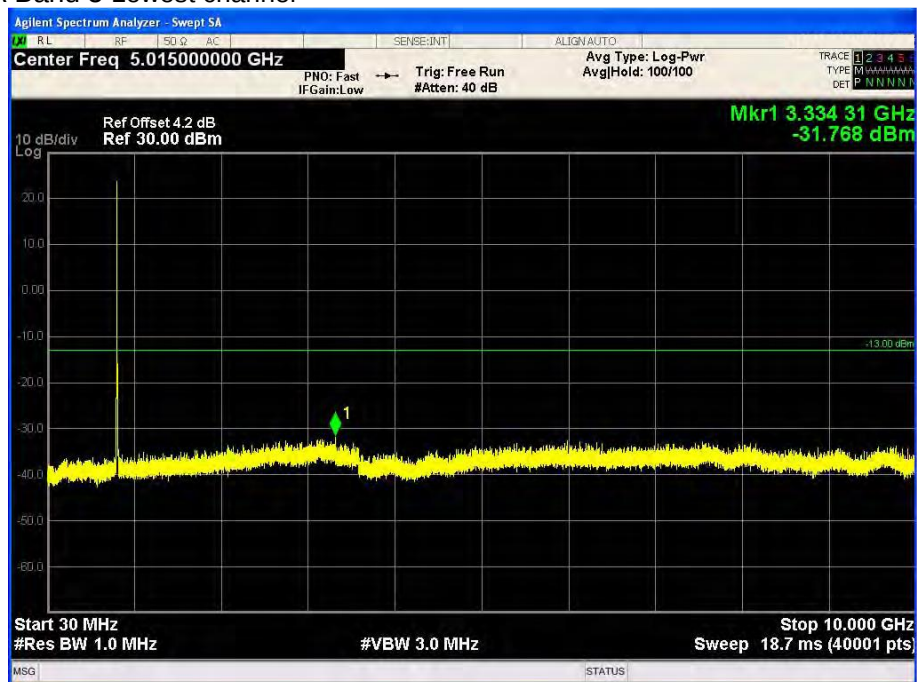
WCDMA Band 2 middle channel



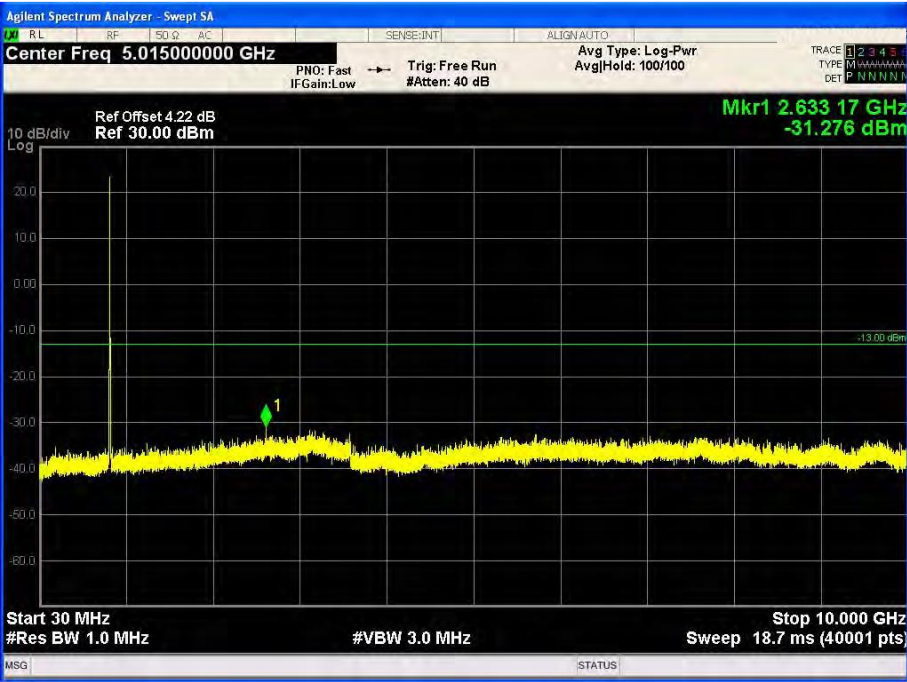
WCDMA Band 2 high channel



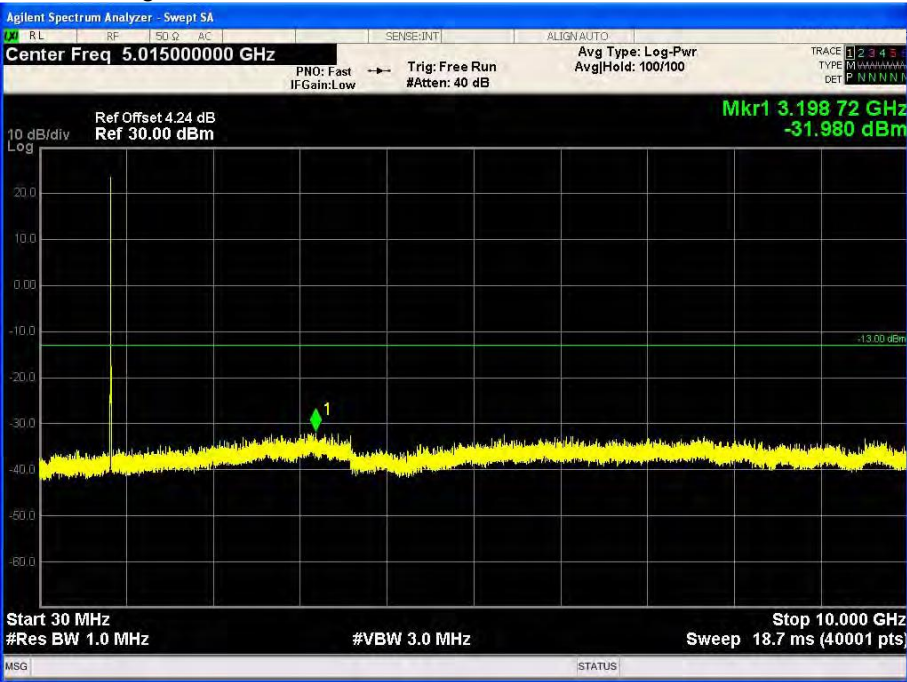
WCDMA Band 5 Lowest channel



WCDMA Band 5 middle channel



WCDMA Band 5 high channel

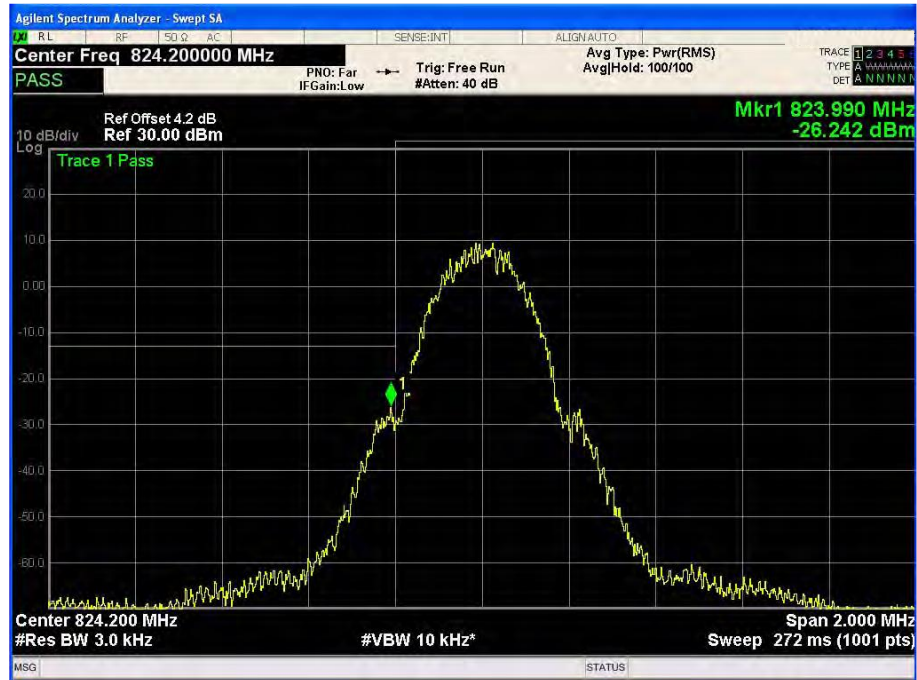


1.3. Conducted Out of Band Emissions

1.3.1. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

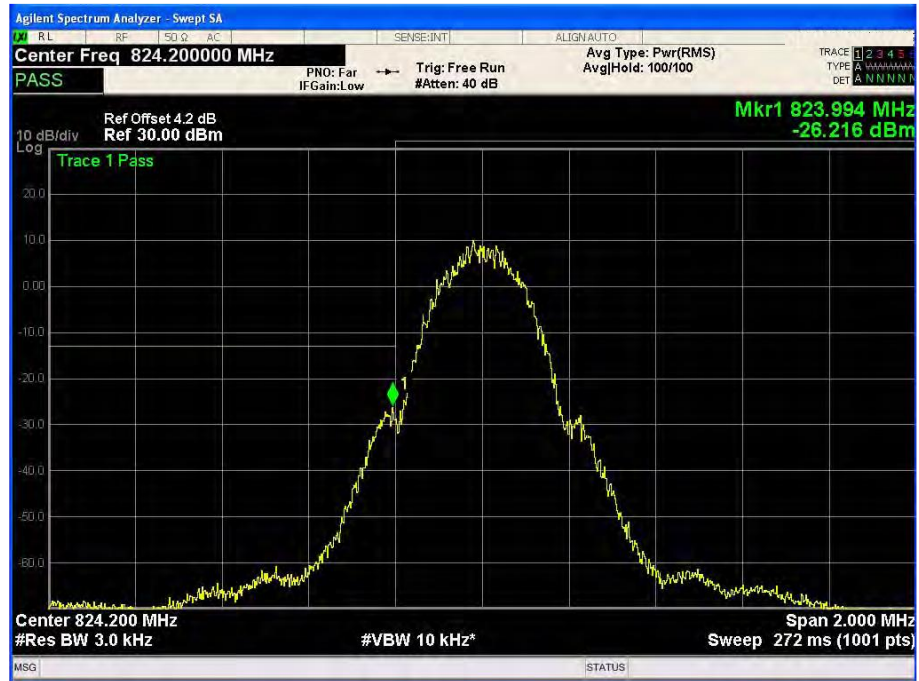
GPRS850 Lowest channel



GPRS850 Highest channel:



EGPRS850 Lowest channel



EGPRS850 Highest channel:



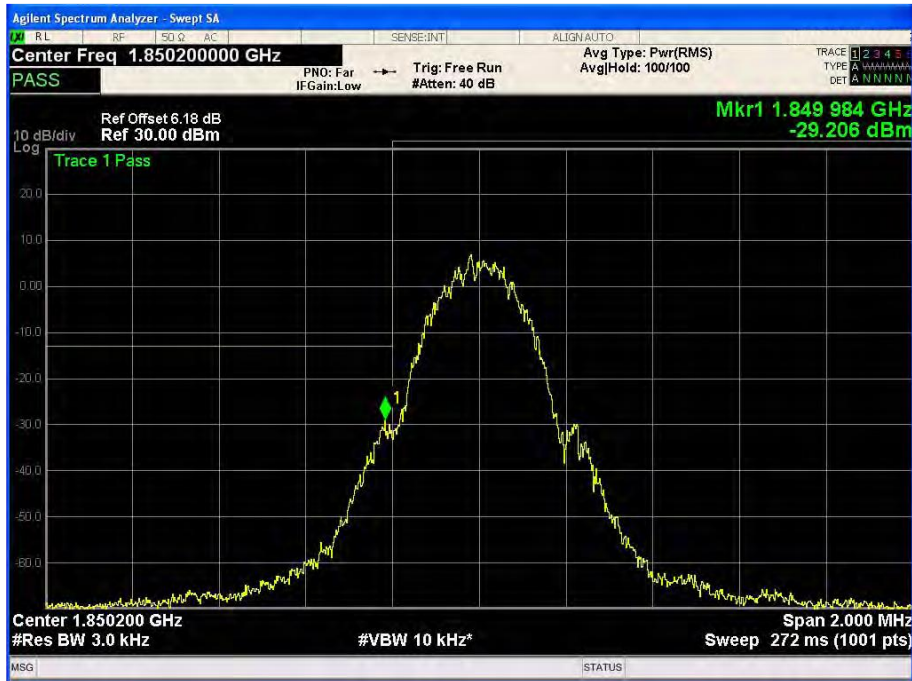
GPRS1900 Lowest channel



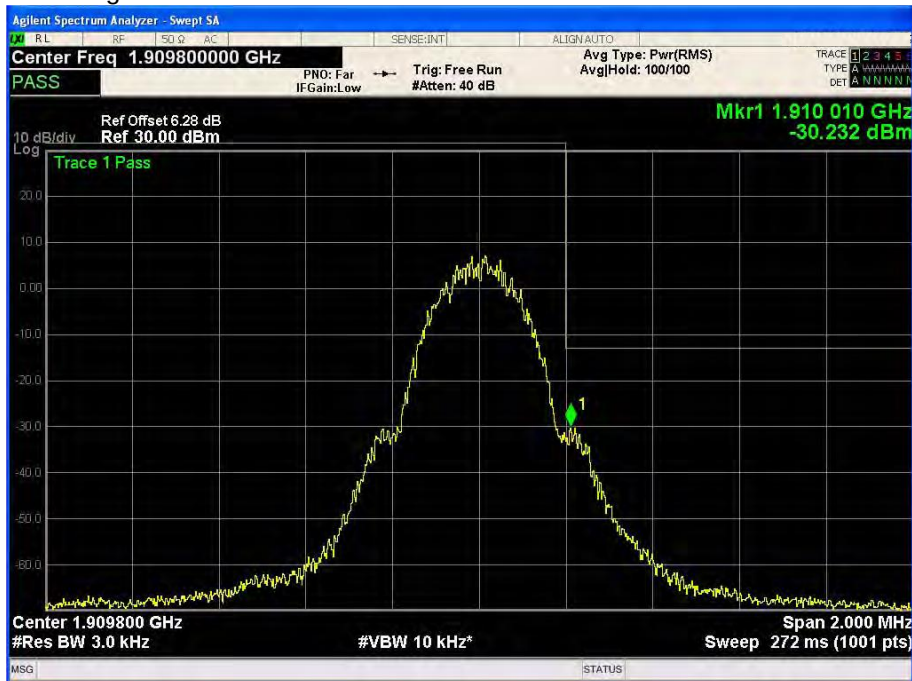
GPRS1900 Highest channel:



EGPRS1900 Lowest channel



EGPRS1900 Highest channel:



WCDMA Band 2 RMC Lowest channel



WCDMA Band 2 RMC Highest channel:



WCDMA Band 5 RMC Lowest channel



WCDMA Band 5 RMC Highest channel:



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