

FCC Part 22H & 24E & 27 Measurement and Test Report

For

Guizhou Fortuneship Technology Co., Ltd.

No. 4 Plant, High-tech Industrial Park, Xinpu Economic Development Zone,

Zunyi City, P. R. China

FCC ID: 2ALQJB125C

FCC Rules: FCC Part 22H, Part 24E, FCC Part 27

Product Description: 4G Smart Phone

Tested Model: B125C

Report No.: <u>STR17068072I-1</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM. Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Guizhou Fortuneship Technology Co., Ltd.

Address of applicant: No. 4 Plant, High-tech Industrial Park, Xinpu Economic

Development Zone, Zunyi City, P. R. China

Manufacturer: Guizhou Fortuneship Technology Co., Ltd.

Address of manufacturer: No. 4 Plant, High-tech Industrial Park, Xinpu Economic

Development Zone, Zunyi City, P. R. China

General Description of EUT:	
Product Name:	4G Smart Phone
Brand Name:	1
Model No.:	B125C
Adding Model(s):	
Rated Voltage:	DC 3.8V by Battery
Battery Capacity:	1950mAh
Hardware version:	S525_MAIN_PCB_V1.0
Software version:	B125C_S525_D1_US_V0.0.8_20170420
Device Category:	Portable Device

The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 1/2/4/5, LTE Band 2/4/7/12/17 function. It is intended for speech, Multimedia Message Service (MMS) transmission. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900, GPS, FM, Bluetooth and Wi-Fi functions. For more information see the following datasheet

Note: The test data is gathered from a production sample provided by the manufacturer.



Technical Characteristics of E	UT:
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
	GSM/GPRS/EDGE 850: 824~849MHz
Uplink Frequency:	GSM/GPRS/EDGE 1900: 1850~1910MHz
	GSM/GPRS/EDGE 850: 869~894MHz
Downlink Frequency:	GSM/GPRS/EDGE 1900: 1930~1990MHz
M	GSM850: 31.96dBm, GSM1900: 28.41dBm
Max RF Output Power:	EDGE850: 26.92dBm, EDGE1900: 24.35dBm
T (F : :	GSM850: 252KGXW, GSM1900: 254KGXW
Type of Emission:	EDGE850: 248KG7W, EDGE1900: 247KG7W
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: 1.4dBi; GSM1900: 0.6dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 4, WCDMA Band 5
	WCDMA Band 2: 1850~1910MHz
Uplink Frequency:	WCDMA Band 4: 1710~1755MHz
	WCDMA Band 5: 824~849MHz
	WCDMA Band 2: 1930~1990MHz
Downlink Frequency:	WCDMA Band 4: 2110~2155MHz
	WCDMA Band 5: 869~894MHz
	WCDMA Band 2: 22.36dBm,
RF Output Power:	WCDMA Band 4: 22.43dBm
	WCDMA Band 5: 22.62dBm
	WCDMA Band 2: 4M23F9W
Type of Emission:	WCDMA Band 4: 4M25F9W
	WCDMA Band 5: 4M23F9W
Type of Modulation:	BPSK
Antenna Type:	Integral Antenna
	WCDMA Band 2: 0.6dBi,
Antenna Gain:	WCDMA Band 4: 0.4dBi,
	WCDMA Band 5: 1.4dBi



1.2 Test Standards

The following report is prepared on behalf of the Guizhou Fortuneship Technology Co., Ltd. in accordance with FCC Part 2 subpart J, FCC Part 22 subpart H and FCC Part 24 subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 2 subpart J, FCC Part 22 subpart H and FCC Part 24 subpart E of the Federal Communication Commissions rules.

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

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI/TIA-603-D: 2010 and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 971168 D01 Power Meas License Digital Systems v02r02 shall be performed also.

1.4 Test Facility

• FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

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

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

• CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101)



1.5 EUT Setup and Test Mode

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

Test Mode L	ist	
Test Mode	Description	Remark
TM1	GSM 850	Low, Middle, High Channels
TM2	GPRS 850	Low, Middle, High Channels
TM3	EDGE 850	Low, Middle, High Channels
TM4	GSM 1900	Low, Middle, High Channels
TM5	GPRS 1900	Low, Middle, High Channels
TM6	EDGE 1900	Low, Middle, High Channels
TM7	WCDMA Band 5	Low, Middle, High Channels
TM8	HSDPA Band 5	Low, Middle, High Channels
TM9	HSUPA Band 5	Low, Middle, High Channels
TM10	WCDMA Band 4	Low, Middle, High Channels
TM11	HSDPA Band 4	Low, Middle, High Channels
TM12	HSUPA Band 4	Low, Middle, High Channels
TM13	WCDMA Band 2	Low, Middle, High Channels
TM14	HSDPA Band 2	Low, Middle, High Channels
TM15	HSUPA Band 2	Low, Middle, High Channels



Testing Configure			
Support Band	Support Standard	Channel Frequency	Channel Number
		824.2 MHz	128
GSM 850	GSM/GPRS/EDGE	836.6 MHz	190
		848.8 MHz	251
		1850.2 MHz	512
PCS 1900	GSM/GPRS/EDGE	1880.0 MHz	661
		1909.8 MHz	810
		826.4 MHz	4132
WCDMA Band 5	WCDMA/HSDPA/HSUPA	836.6 MHz	4183
		846.6 MHz	4233
		1712.4 MHz	1312
WCDMA Band 4	WCDMA/HSDPA/HSUPA	1732.4 MHz	1412
		1752.6 MHz	1513
		1852.4 MHz	9262
WCDMA Band 2	WCDMA/HSDPA/HSUPA	1880.0 MHz	9400
		1907.6 MHz	9538

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

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.0	Shielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E10	LR-63C8R

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/



1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Radiated	±5.1dB
Transmitter Spurious Emissions	Conducted	±0.42dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde &	CMW500	148650	2017-06-12	2018-06-11
		Schwarz				
SEMT-1034	GSM Tester	Rohde &	CMU200	104036	2017-06-12	2018-06-11
52111 103 1	CSIVI Tester	Schwarz	200	101050	2017 00 12	2010 00 11
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2017-06-12	2018-06-11
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2017-06-12	2018-06-11
CEMT 1001	Vector Signal	A -:1	NE 192 A	MW47070202	2017-06-12	2019 06 11
SEMT-1081	Generator	Agilent	N5182A	MY47070202	2017-00-12	2018-06-11
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2017-06-12	2018-06-11
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde &	FSP30	836079/035	2017-06-12	2018-06-11
SLIVII-1031	Spectrum Anaryzer	Schwarz	15150	030017/033	2017-00-12	2010-00-11
SEMT-1007	EMI Test Receiver	Rohde &	ESVB	825471/005	2017-06-12	2018-06-11
SEN11-1007	EMI Test Receiver	Schwarz	ESVB	8234717003	2017-00-12	2010-00-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-12	2018-06-11
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-12	2018-06-11
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-12	2018-06-11
SEMT-1121	Horn Antenna	ETS	3116B	00088203	2017-06-12	2018-06-11



2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 1.1307, § 2.1093	RF Exposure	Compliant
§ 22.913 (a), § 24.232 (c), §27.50	RF Output Power	Compliant
§ 24.51, § 27.50	Peak-to-average Ratio (PAR) of Transmitter	Compliant
§ 22.917 (b), § 24.238 (b), § 27.53	Emission Bandwidth	Compliant
§ 22.917 (a), § 24.238 (a), § 27.53	Spurious Emissions at Antenna Terminal	Compliant
§ 22.917 (a), § 24.238 (a), § 27.53	Spurious Radiation Emissions	Compliant
§ 22.917 (a), § 24.238 (a) , § 27.53	Out of Band Emissions	Compliant
§ 22.917 (a), § 24.235, § 27.54	Frequency Stability	Compliant



3. RF Exposure

3.1 Standard Applicable

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

3.2 Test Result

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

Model: B125C

4. RF Output Power

4.1 Standard Applicable

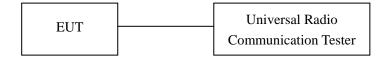
According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to §24.232 (c), Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

4.2 Test Procedure

Conducted output power test method:



Radiated power test method:

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

4.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

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4.4 Summary of Test Results/Plots

Max. Radiated Power

ERP For GSM Mode GSM850

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
824.2	31.27	1.5	0	Н	1.5	0	29.77	38.45		
824.2	30.46	1.5	0	V	1.5	0	28.96	38.45		
			N	/Iiddle Ch	annel					
836.4	30.08	1.5	0	Н	1.5	0	28.58	38.45		
836.4	30.54	1.5	0	V	1.5	0	29.04	38.45		
	High Channel									
848.8	29.83	1.5	0	Н	1.5	0	28.33	38.45		
848.8	30.23	1.5	0	V	1.5	0	28.73	38.45		

EIRP For GSM Mode PCS1900

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1850.2	20.33	1.5	0	Н	1.9	7.7	26.13	33.00		
1850.2	21.54	1.5	0	V	1.9	7.7	27.34	33.00		
			N	/Iiddle Ch	annel					
1880.0	21.09	1.5	0	Н	1.9	7.7	26.89	33.00		
1880.0	20.55	1.5	0	V	1.9	7.7	26.35	33.00		
				High Cha	nnel					
1909.8	20.79	1.5	0	Н	1.9	7.7	26.59	33.00		
1909.8	22.31	1.5	0	V	1.9	7.7	28.11	33.00		



ERP For GPRS Mode GSM850

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
824.2	29.07	1.5	0	Н	1.5	0	27.57	38.45		
824.2	31.57	1.5	0	V	1.5	0	30.07	38.45		
			N	/Iiddle Ch	annel					
836.6	29.67	1.5	0	Н	1.5	0	28.17	38.45		
836.6	30.27	1.5	0	V	1.5	0	28.77	38.45		
	High Channel									
848.8	29.02	1.5	0	Н	1.5	0	27.52	38.45		
848.8	30.46	1.5	0	V	1.5	0	28.96	38.45		

EIRP For GPRS Mode PCS1900

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1850.2	20.27	1.5	0	Н	1.9	7.7	26.07	33.00		
1850.2	20.64	1.5	0	V	1.9	7.7	26.44	33.00		
			N	⁄Iiddle Ch	annel					
1880.0	20.72	1.5	0	Н	1.9	7.7	26.52	33.00		
1880.0	20.76	1.5	0	V	1.9	7.7	26.56	33.00		
				High Cha	nnel					
1909.8	20.02	1.5	0	Н	1.9	7.7	25.82	33.00		
1909.8	21.58	1.5	0	V	1.9	7.7	27.38	33.00		



ERP For EDGE Mode GSM850

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
824.2	26.17	1.5	0	Н	1.5	0	24.67	38.45		
824.2	26.04	1.5	0	V	1.5	0	24.54	38.45		
			N	/Iiddle Ch	annel					
836.6	26.25	1.5	0	Н	1.5	0	24.75	38.45		
836.6	27.97	1.5	0	V	1.5	0	26.47	38.45		
	High Channel									
848.8	27.27	1.5	0	Н	1.5	0	25.77	38.45		
848.8	26.04	1.5	0	V	1.5	0	24.54	38.45		

EIRP For EDGE Mode PCS1900

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1850.2	17.35	1.5	0	Н	1.9	7.7	23.15	33.00		
1850.2	17.37	1.5	0	V	1.9	7.7	23.17	33.00		
			N	/Iiddle Ch	annel					
1880.0	15.69	1.5	0	Н	1.9	7.7	21.49	33.00		
1880.0	17.55	1.5	0	V	1.9	7.7	23.35	33.00		
				High Cha	nnel					
1909.8	16.56	1.5	0	Н	1.9	7.7	22.36	33.00		
1909.8	17.26	1.5	0	V	1.9	7.7	23.06	33.00		



EIRP For WCDMA Mode Band 4

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 27 Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1712.4	15.16	1.5	0	Н	1.7	7.4	20.86	30		
1712.4	14.87	1.5	0	V	1.7	7.4	20.57	30		
			N	/Iiddle Ch	annel					
1732.4	14.66	1.5	0	Н	1.7	7.4	20.36	30		
1732.4	15.98	1.5	0	V	1.7	7.4	21.68	30		
	High Channel									
1752.6	16.23	1.5	0	Н	1.7	7.4	21.93	30		
1752.6	15.67	1.5	0	V	1.7	7.4	21.37	30		

EIRP For HSDPA Mode Band 4

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 27 Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1712.4	15.74	1.5	0	Н	1.7	7.4	21.44	30		
1712.4	15.45	1.5	0	V	1.7	7.4	21.15	30		
			N	/Iiddle Ch	annel					
1732.4	14.31	1.5	0	Н	1.7	7.4	20.01	30		
1732.4	15.14	1.5	0	V	1.7	7.4	20.84	30		
				High Cha	nnel					
1752.6	14.51	1.5	0	Н	1.7	7.4	20.21	30		
1752.6	15.06	1.5	0	V	1.7	7.4	20.76	30		



EIRP For HSUPA Mode Band 4

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 27 Limit		
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm		
Low Channel										
1712.4	15.85	1.5	0	Н	1.7	7.4	21.55	30		
1712.4	16.25	1.5	0	V	1.7	7.4	21.95	30		
			N	/Iiddle Ch	annel					
1732.4	15.14	1.5	0	Н	1.7	7.4	20.84	30		
1732.4	15.39	1.5	0	V	1.7	7.4	21.09	30		
				High Cha	nnel					
1752.6	15.14	1.5	0	Н	1.7	7.4	20.84	30		
1752.6	14.01	1.5	0	V	1.7	7.4	19.71	30		

ERP For WCDMA Mode Band 5

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dBd	dBm	dBm		
Low Channel										
826.4	23.42	1.5	0	Н	1.5	0	21.92	38.45		
826.4	22.98	1.5	0	V	1.5	0	21.48	38.45		
			N	/Iiddle Ch	annel					
836.6	21.81	1.5	0	Н	1.5	0	20.31	38.45		
836.6	23.6	1.5	0	V	1.5	0	22.1	38.45		
				High Cha	nnel					
846.6	21.63	1.5	0	Н	1.5	0	20.13	38.45		
846.6	22.62	1.5	0	V	1.5	0	21.12	38.45		



ERP For HSDPA Mode Band 5

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dBd	dBm	dBm		
Low Channel										
826.4	21.37	1.5	0	Н	1.5	0	19.87	38.45		
826.4	21.78	1.5	0	V	1.5	0	20.28	38.45		
			N	/Iiddle Ch	annel					
836.6	20.88	1.5	0	Н	1.5	0	19.38	38.45		
836.6	20.19	1.5	0	V	1.5	0	18.69	38.45		
	High Channel									
846.6	20.88	1.5	0	Н	1.5	0	19.38	38.45		
846.6	21.18	1.5	0	V	1.5	0	19.68	38.45		

ERP For HSUPA Mode Band 5

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 22H Limit		
MHz	dBm	Meter	Degree	H/V	dB	dBd	dBm	dBm		
Low Channel										
826.4	20.61	1.5	0	Н	1.5	0	19.11	38.45		
826.4	20.41	1.5	0	V	1.5	0	18.91	38.45		
			N	/Iiddle Ch	annel					
836.6	20.28	1.5	0	Н	1.5	0	18.78	38.45		
836.6	19.95	1.5	0	V	1.5	0	18.45	38.45		
	High Channel									
846.6	21.09	1.5	0	Н	1.5	0	19.59	38.45		
846.6	20.15	1.5	0	V	1.5	0	18.65	38.45		



EIRP For WCDMA Mode Band 2

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm
				Low Cha	nnel			
1852.4	15.36	1.5	0	Н	1.9	7.7	21.16	33
1852.4	15.95	1.5	0	V	1.9	7.7	21.75	33
			N	/Iiddle Ch	annel			
1880.0	15.31	1.5	0	Н	1.9	7.7	21.11	33
1880.0	15.52	1.5	0	V	1.9	7.7	21.32	33
	High Channel							
1907.6	16.15	1.5	0	Н	1.9	7.7	21.95	33
1907.6	14.79	1.5	0	V	1.9	7.7	20.59	33

EIRP For HSDPA Mode Band 2

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm
				Low Cha	nnel			
1852.4	12.63	1.5	0	Н	1.9	7.7	18.43	33
1852.4	13.19	1.5	0	V	1.9	7.7	18.99	33
			N	/Iiddle Ch	annel			
1880.0	12.21	1.5	0	Н	1.9	7.7	18.01	33
1880.0	13.6	1.5	0	V	1.9	7.7	19.4	33
	High Channel							
1907.6	12.79	1.5	0	Н	1.9	7.7	18.59	33
1907.6	13.86	1.5	0	V	1.9	7.7	19.66	33



EIRP For HSUPA Mode Band 2

Frequency	Substitude SG	Height	Table	Polar	Cable loss	Antenna Gain	Result	FCC Part 24E Limit
MHz	dBm	Meter	Degree	H/V	dB	dB	dBm	dBm
				Low Cha	nnel			
1852.4	12.67	1.5	0	Н	1.9	7.7	18.47	33
1852.4	14.12	1.5	0	V	1.9	7.7	19.92	33
			N	/Iiddle Ch	annel			
1880.0	12.52	1.5	0	Н	1.9	7.7	18.32	33
1880.0	13.49	1.5	0	V	1.9	7.7	19.29	33
	High Channel							
1907.6	12.47	1.5	0	Н	1.9	7.7	18.27	33
1907.6	13.4	1.5	0	V	1.9	7.7	19.2	33

Note: Result = Substitude - Cable loss + Antenna Gain



Max. Conducted Output Power

For Cellular Band (GSM850)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
	Low Channel	824.2	31.78	38.45
GSM	Middle Channel	836.6	31.90	38.45
	High Channel	848.8	31.96	38.45
	Low Channel	824.2	31.69	38.45
GPRS(1 Slot)	Middle Channel	836.6	31.80	38.45
	High Channel	848.8	31.89	38.45
	Low Channel	824.2	26.92	38.45
EDGE(1 Slot)	Middle Channel	836.6	26.01	38.45
	High Channel	848.8	26.08	38.45

For PCS Band (GSM1900)

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
	Low Channel	1850.2	28.41	33.0
GSM	Middle Channel	1880.0	28.35	33.0
	High Channel	1909.8	28.24	33.0
	Low Channel	1850.2	28.40	33.0
GPRS(1 Slot)	Middle Channel	1880.0	28.34	33.0
	High Channel	1909.8	28.22	33.0
	Low Channel	1850.2	24.35	33.0
EDGE(1 Slot)	Middle Channel	1880.0	24.19	33.0
	High Channel	1909.8	24.27	33.0



For WCDMA Band 5

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 22.913 Limit (dBm)
	Low Channel	826.4	22.55	38.45
WCDMA	Middle Channel	836.6	22.57	38.45
	High Channel	846.6	22.62	38.45
	Low Channel	826.4	21.88	38.45
HSDPA	Middle Channel	836.6	21.95	38.45
	High Channel	846.6	21.41	38.45
	Low Channel	826.4	21.22	38.45
HSUPA	Middle Channel	836.6	21.98	38.45
	High Channel	846.6	21.65	38.45

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 24.232 Limit (dBm)
	Low Channel	1852.4	22.36	33.00
WCDMA	Middle Channel	1880.0	22.22	33.00
	High Channel	1907.6	22.14	33.00
	Low Channel	1852.4	21.59	33.00
HSDPA	Middle Channel	1880.0	21.94	33.00
	High Channel	1907.6	21.65	33.00
HSUPA	Low Channel	1852.4	21.37	33.00
	Middle Channel	1880.0	21.09	33.00
	High Channel	1907.6	21.77	33.00



For WCDMA Band 4

Test Mode	Channel	Frequency (MHz)	Average Power (dBm)	FCC Part 27.50 Limit (dBm)
	Low Channel	1712.4	22.21	30.00
WCDMA	Middle Channel	1732.4	22.26	30.00
	High Channel	1752.6	22.43	30.00
	Low Channel	1712.4	21.29	30.00
HSDPA	Middle Channel	1732.4	21.42	30.00
	High Channel	1752.6	21.54	30.00
HSUPA	Low Channel	1712.4	21.19	30.00
	Middle Channel	1732.4	21.39	30.00
	High Channel	1752.6	21.97	30.00

Model: B125C

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

5.1 Standard Applicable

According to §24.232(d), Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded. Record the maximum PAPR level associated with a probability of 0.1%.

Test Configuration for the emission bandwidth testing:



5.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar



5.4 Summary of Test Results

Only the worst case was selected to record

For PCS Band

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
GSM	512	1850.2	10.15	13
GPRS(1 Slot)	512	1850.2	972	13
EDGE(1 Slot)	512	1850.2	9.53	13

For WCDMA Band 2

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	9400	1880	3.05	13
HSDPA	9400	1880	2.85	13
HSUPA	9400	1880	2.87	13

For WCDMA Band 4

Test Mode	Channel	Frequency (MHz)	PAR (dB)	Limit (dB)
WCDMA	1412	1732.4	3.27	13
HSDPA	1412	1732.4	3.15	13
HSUPA	1412	1732.4	3.19	13

Model: B125C

6. Emission Bandwidth

6.1 Standard Applicable

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

According to §24.238(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §27.53, The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

6.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



6.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar



6.4 Summary of Test Results/Plots

For Cellular Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	128	824.2	245.9019	318.009
	190	836.6	250.0109	323.532
	251	848.8	251.9307	316.690
GPRS	128	824.2	245.7009	318.478
	190	836.6	250.0109	323.532
	251	848.8	244.9820	311.287
EDGE	128	824.2	243.6419	322.786
	190	836.6	248.0384	320.035
	251	848.8	245.7930	309.421

For PCS Band

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (kHz)	26 dB Emission Bandwidth (kHz)
GSM	512	1850.2	246.6897	320.333
	661	1880.0	253.7221	318.498
	810	1909.8	247.7112	326.215
GPRS	512	1850.2	248.0468	323.657
	661	1880.0	245.9121	316.744
	810	1909.8	246.0168	309.827
EDGE	512	1850.2	244.9551	326.025
	661	1880.0	246.8619	321.289
	810	1909.8	245.7914	316.096



For Band 5

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA	4132	826.4	4.1971	4.857
	4183	836.6	4.2139	4.914
	4233	846.6	4.2193	4.882
HSDPA	4132	826.4	4.2099	4.886
	4183	836.6	4.2170	4.898
	4233	846.6	4.2114	4.881
HSUPA	4132	826.4	4.2083	4.877
	4183	836.6	4.2065	4.875
	4233	846.6	4.2265	4.886

For Band 4

Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA	1312	1712.4	4.2324	4.916
	1412	1732.4	4.2124	4.900
	1513	1752.6	4.2242	4.893
HSDPA	1312	1712.4	4.2331	4.922
	1412	1732.4	4.2393	4.910
	1513	1752.6	4.2462	4.923
HSUPA	1312	1712.4	4.1851	4.853
	1412	1732.4	4.2124	4.900
	1513	1752.6	4.2456	4.870

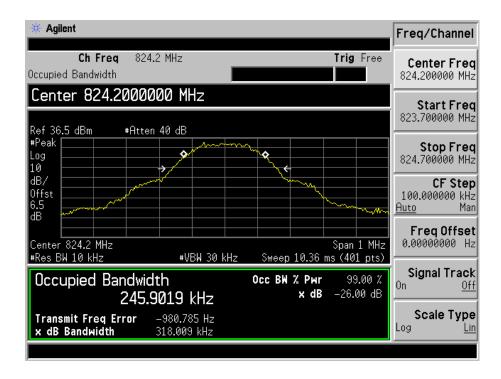


For Band 2

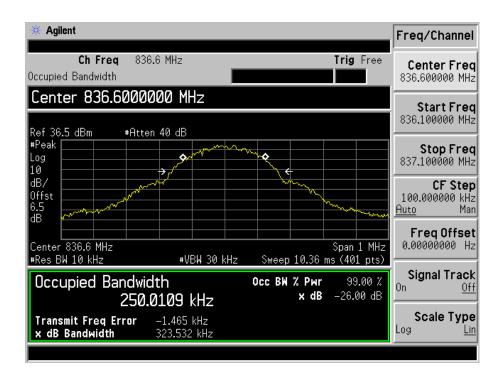
Test Mode	Channel	Frequency (MHz)	99% Emission Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA	9262	1852.4	4.2254	4.919
	9400	1880.0	4.2062	4.864
	9538	1907.6	4.2005	4.872
HSDPA	9262	1852.4	4.2231	4.897
	9400	1880.0	4.2207	4.878
	9538	1907.6	4.2077	4.860
HSUPA	9262	1852.4	4.2300	4.902
	9400	1880.0	4.2302	4.877
	9538	1907.6	4.2196	4.891



For Cellular Band GSM Low Channel

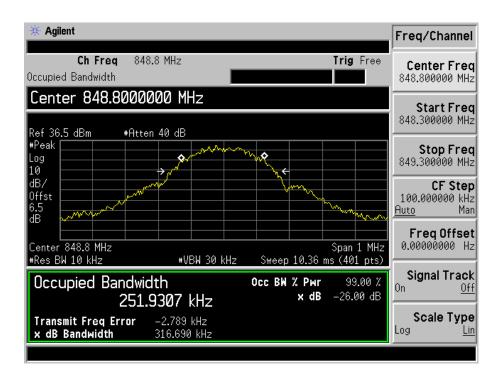


GSM Middle Channel

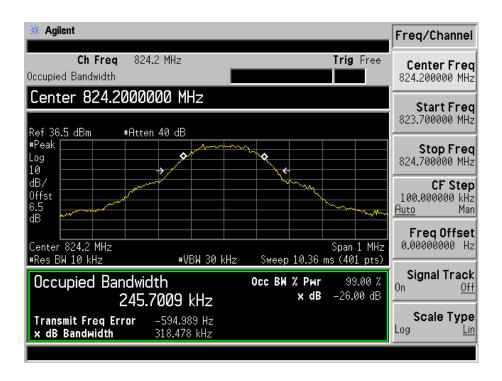




GSM High channel

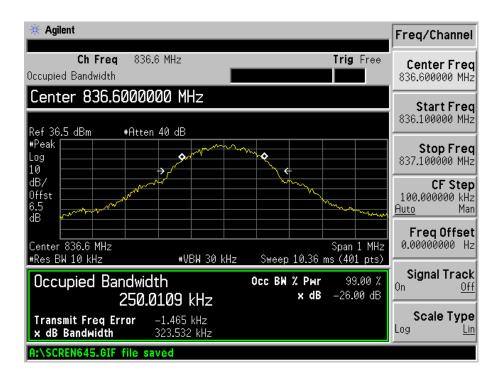


GPRS Low Channel

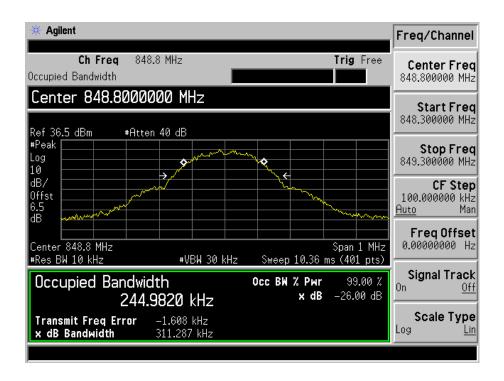




GPRS Middle Channel

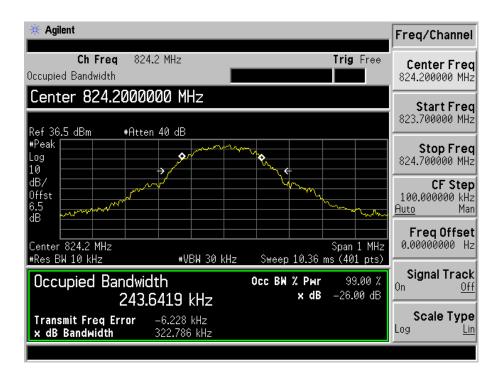


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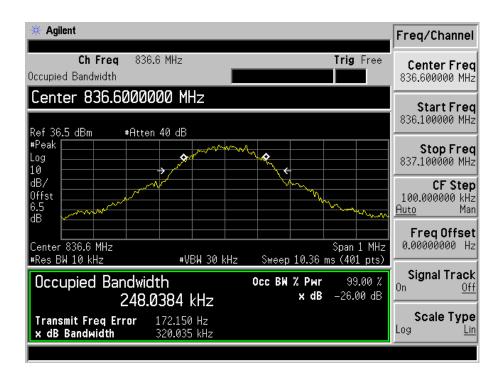




EDGE Low Channel

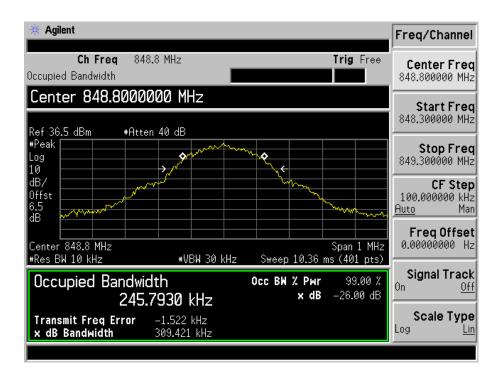


EDGE Middle Channel

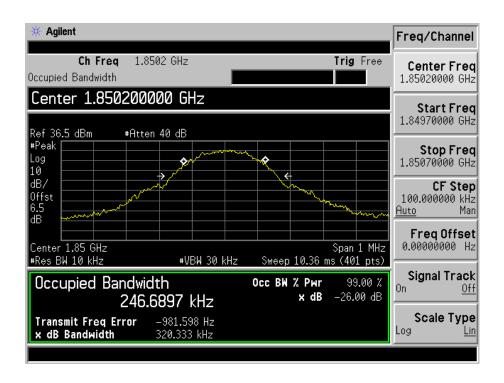




EDGE High Channel

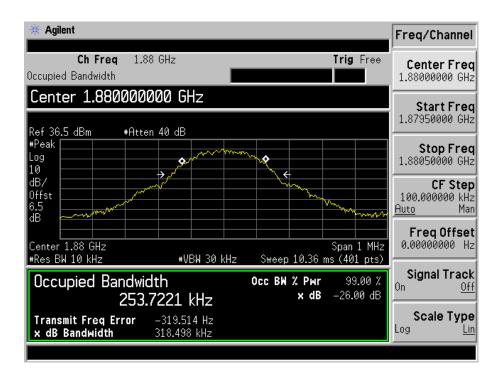


For PCS Band GSM Low Channel

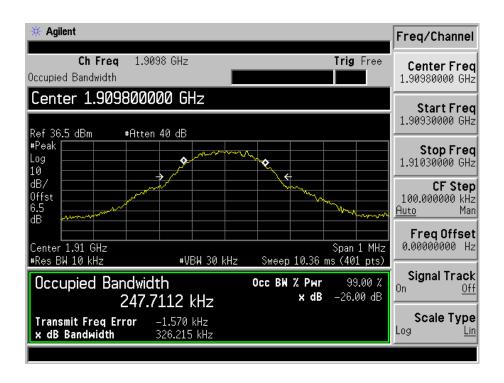




GSM Middle Channel

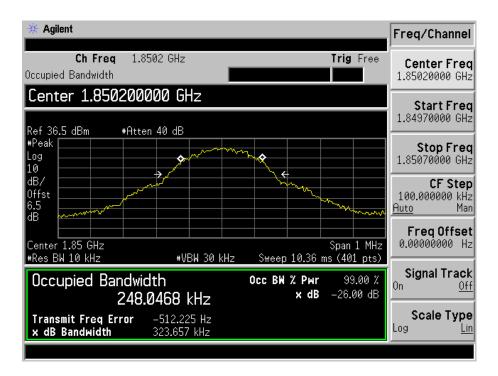


GSM High channel

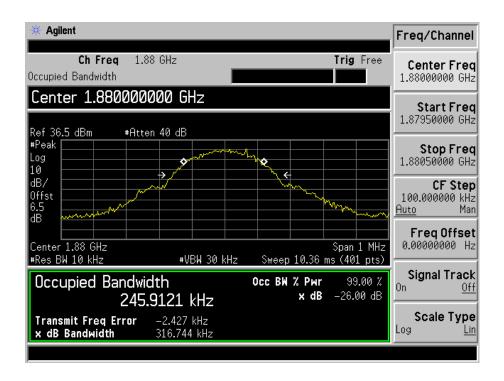




GPRS Low Channel

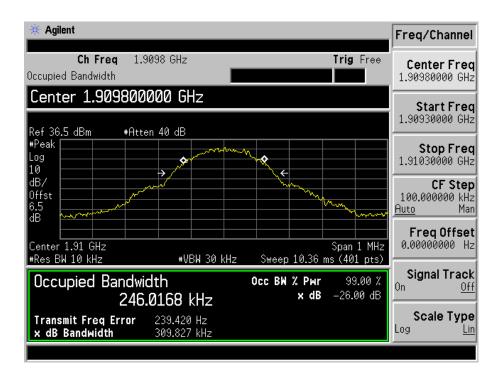


GPRS Middle Channel

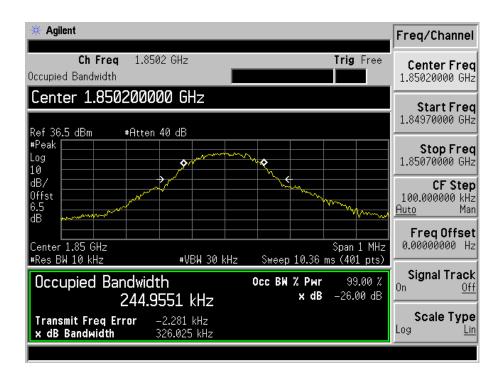




GPRS High Channel

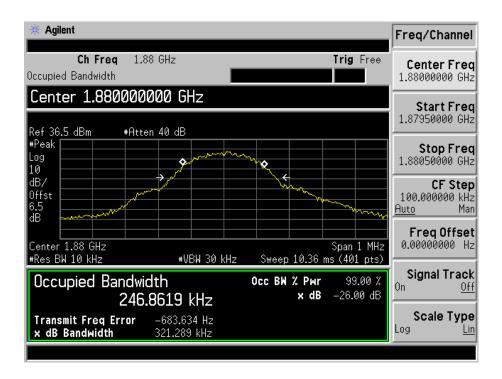


EDGE Low Channel

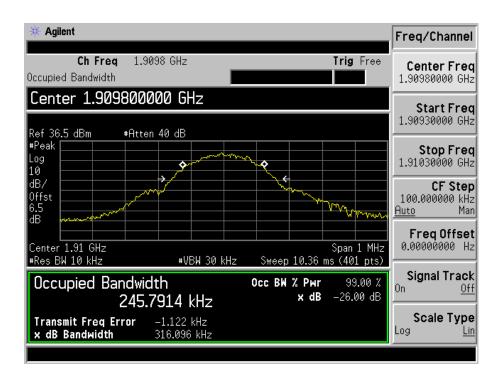




EDGE Middle Channel

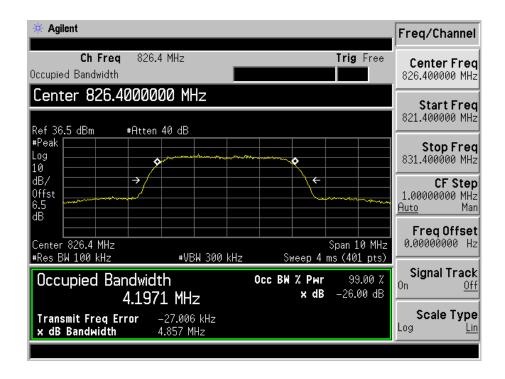


EDGE High Channel

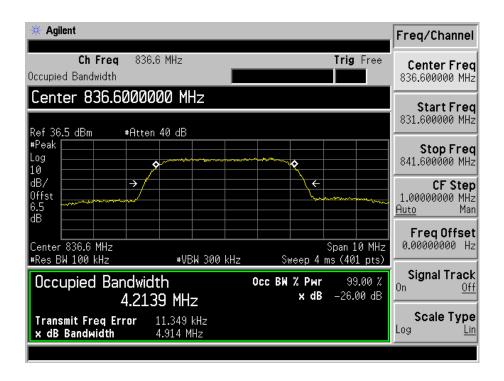




For Band V WCDMA Low Channel

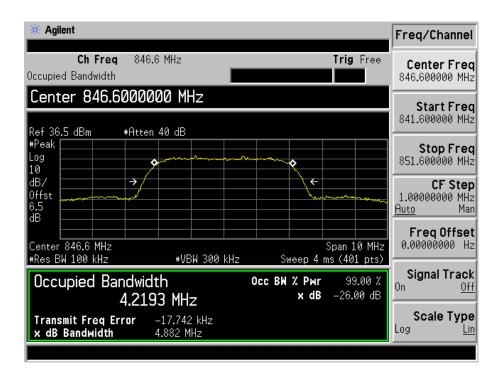


WCDMA Middle Channel

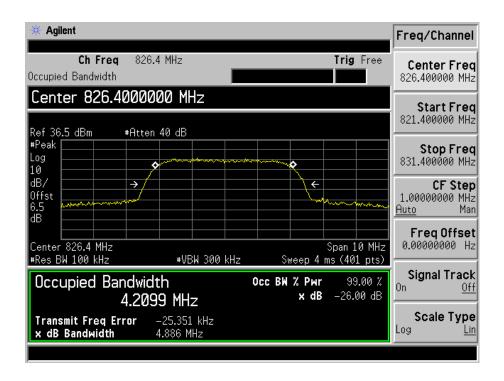




WCDMA High Channel

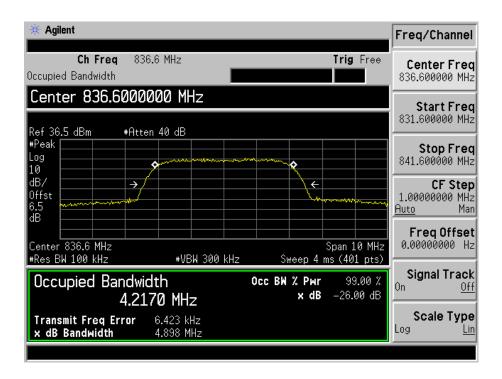


HSDPA Low Channel

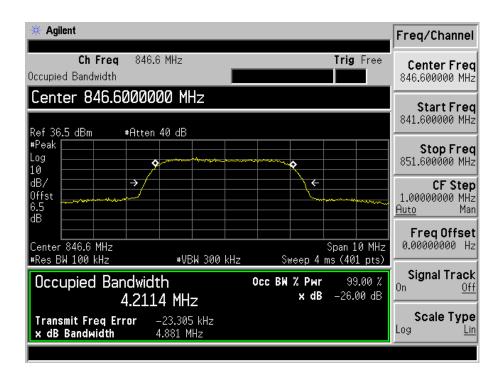




HSDPA Middle Channel

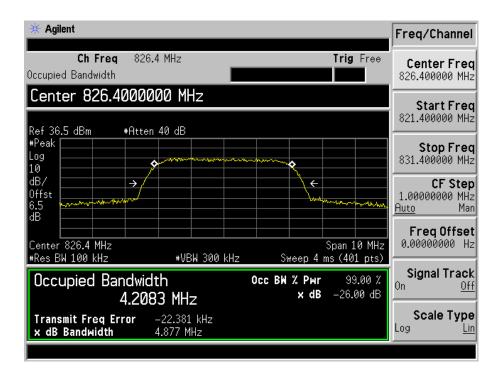


HSDPA High Channel

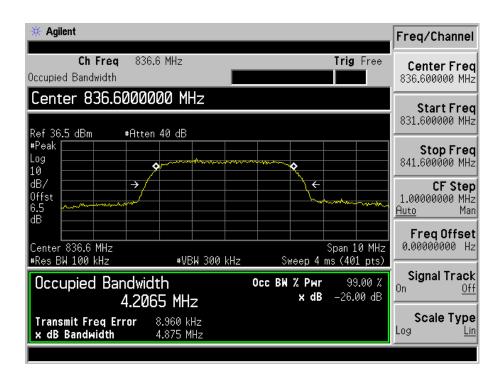




HSUPA Low Channel

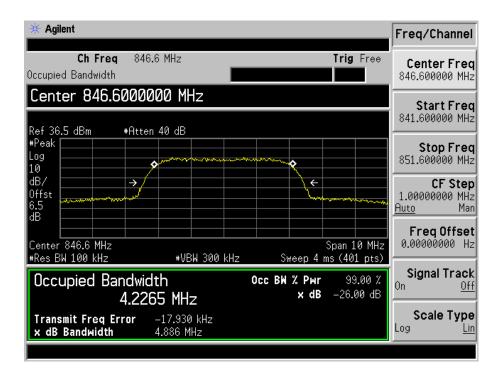


HSUPA Middle Channel

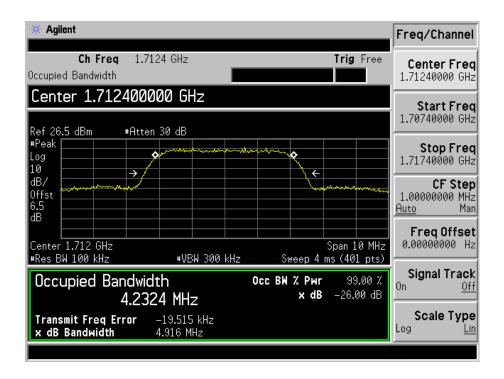




HSUPA High Channel

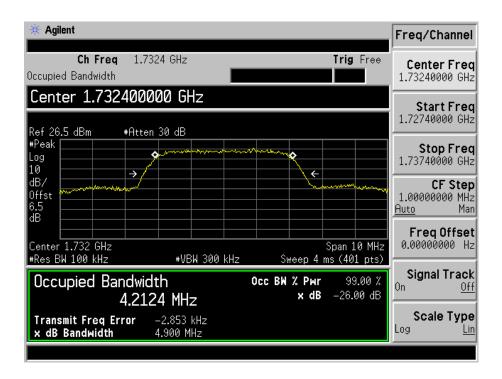


For Band IV WCDMA Low Channel

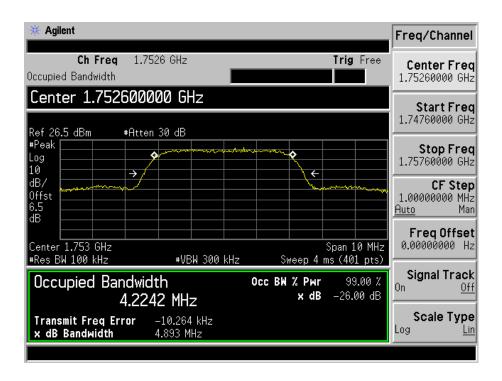




WCDMA Middle Channel

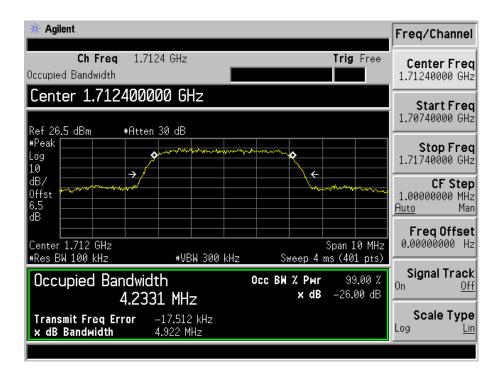


WCDMA High Channel

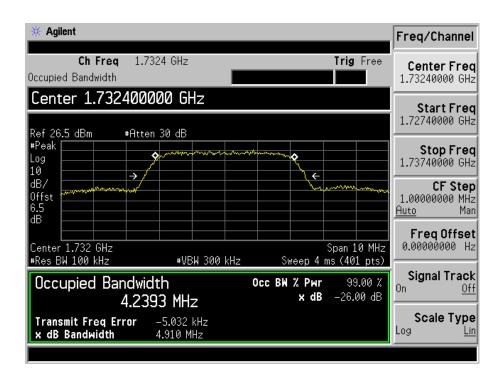




HSDPA Low Channel

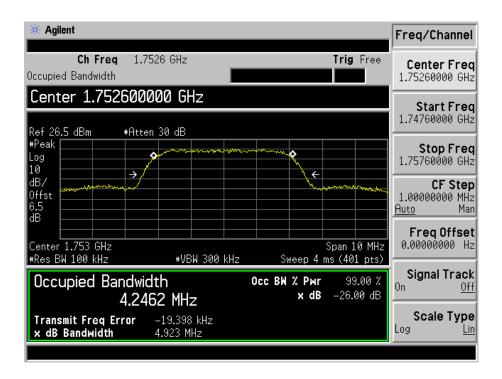


HSDPA Middle Channel

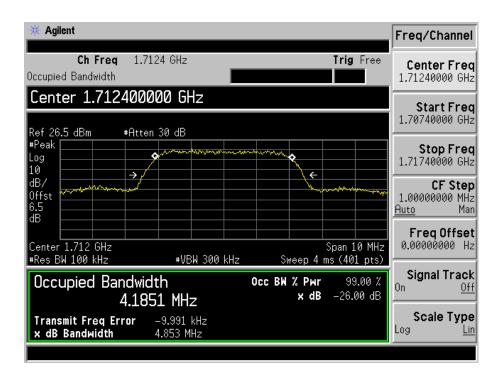




HSDPA High Channel

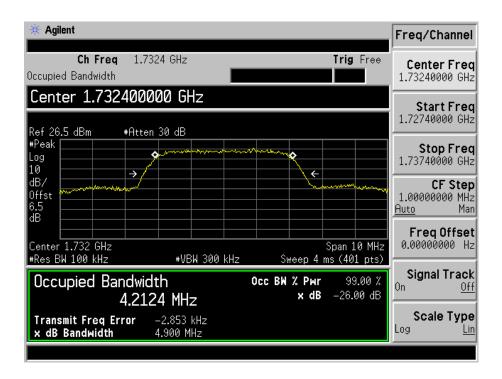


HSUPA Low Channel

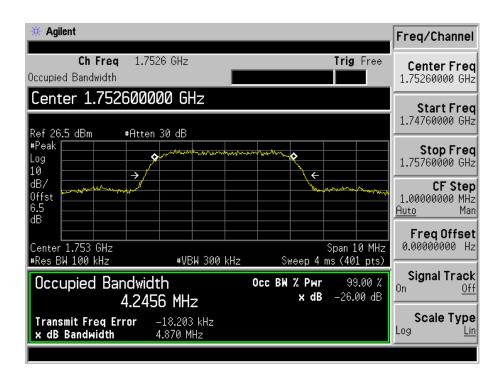




HSUPA Middle Channel

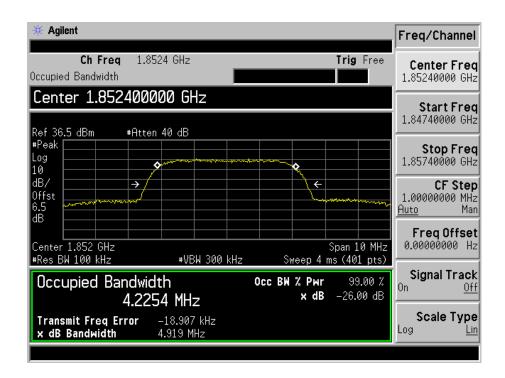


HSUPA High Channel

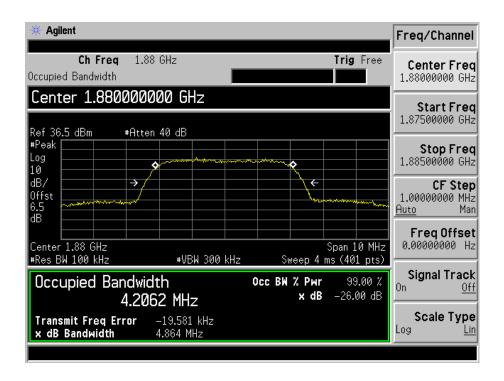




For Band II WCDMA Low Channel

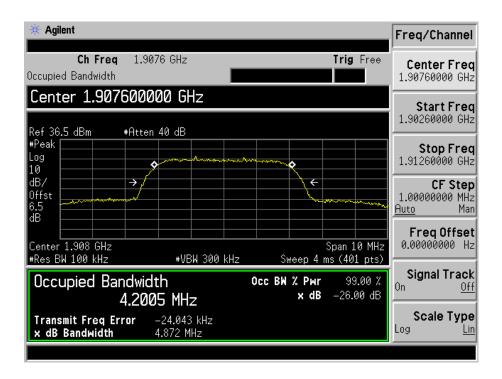


WCDMA Middle Channel

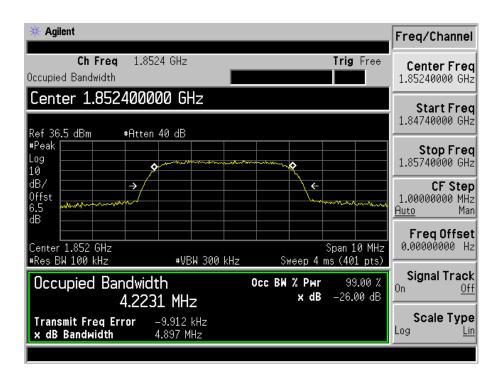




WCDMA High Channel

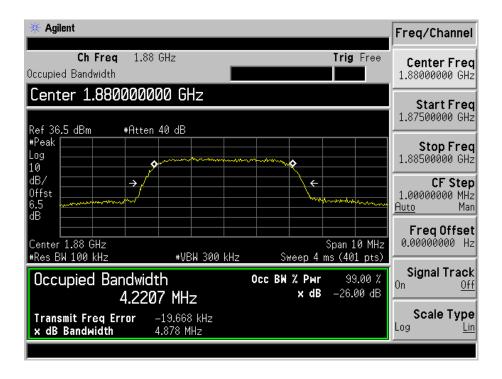


HSDPA Low Channel

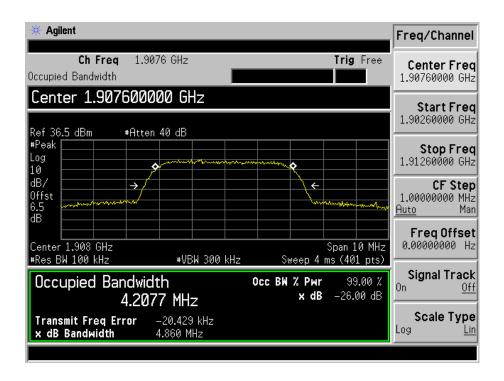




HSDPA Middle Channel

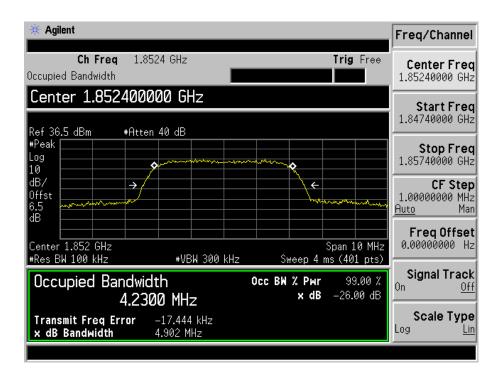


HSDPA High Channel

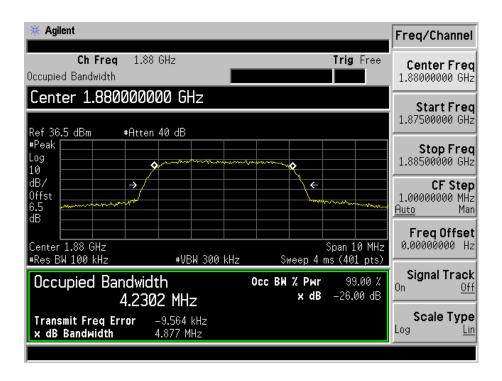




HSUPA Low Channel

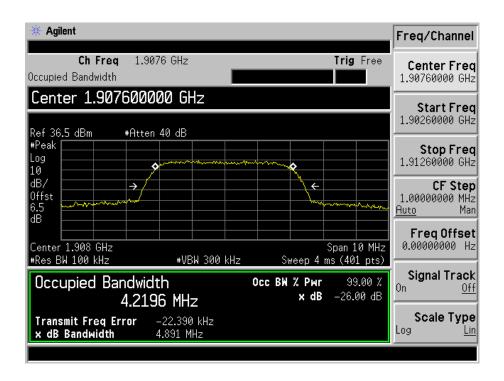


HSUPA Middle Channel





HSUPA High Channel



Model: B125C

7. Out of Band Emissions at Antenna Terminal

7.1 Standard Applicable

According to $\S22.917(a)$, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

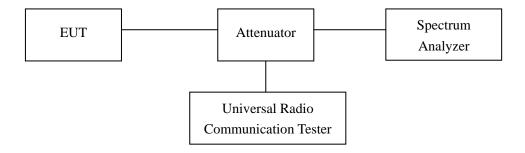
According to $\S24.238(a)$, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

According to $\S27.53$ (h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log 10$ (P) dB.

7.2 Test Procedure

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

Test Configuration for the out of band emissions testing:



7.3 Environmental Conditions

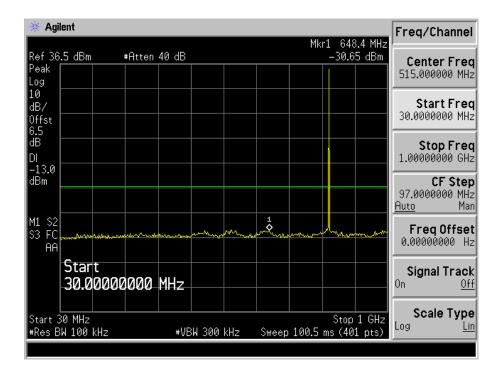
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

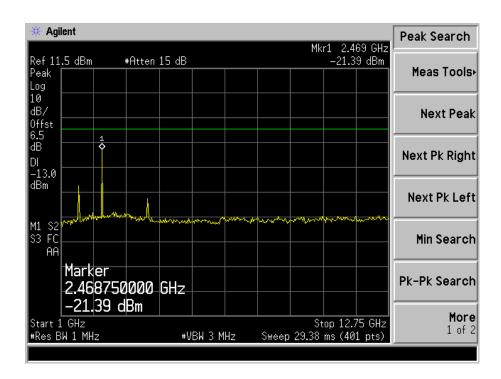


7.4 Summary of Test Results/Plots

Please refer to the following test plots For Cellular Band

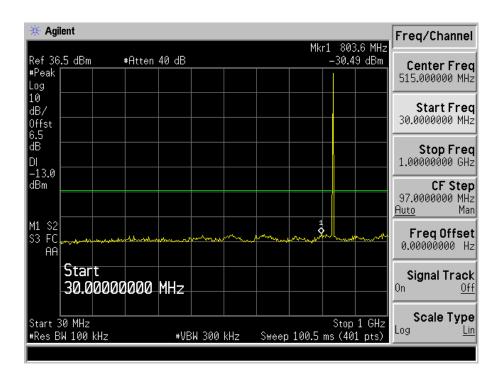
GSM Low Channel

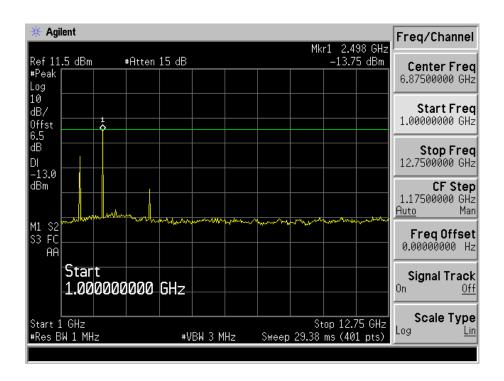






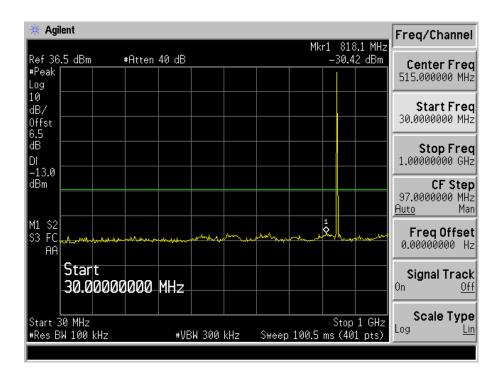
GSM Middle Channel

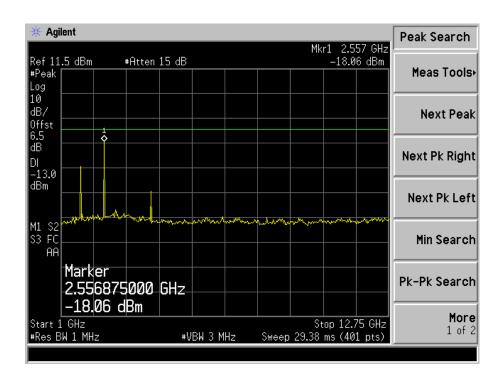






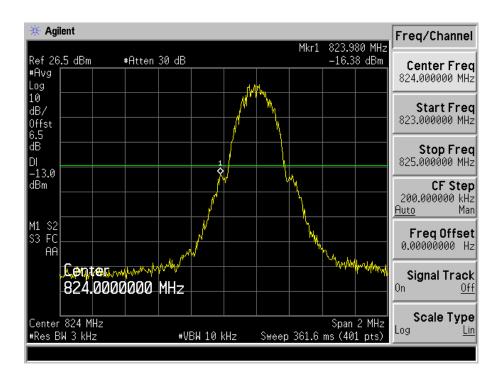
GSM High Channel



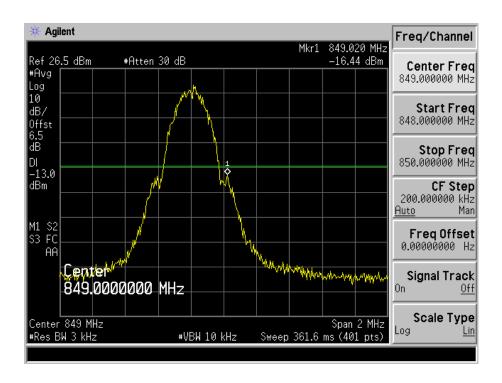




GSM Low Band Emission

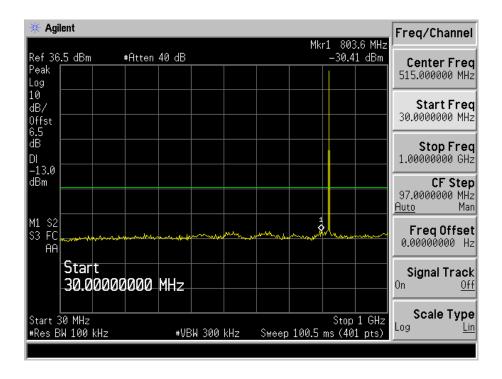


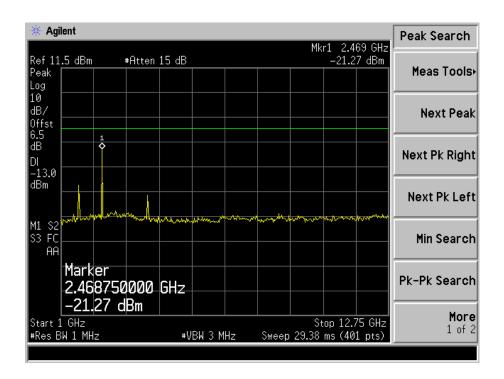
GSM High Band Emission





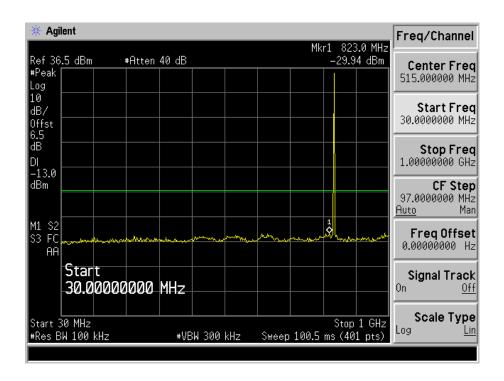
GPRS Low Channel

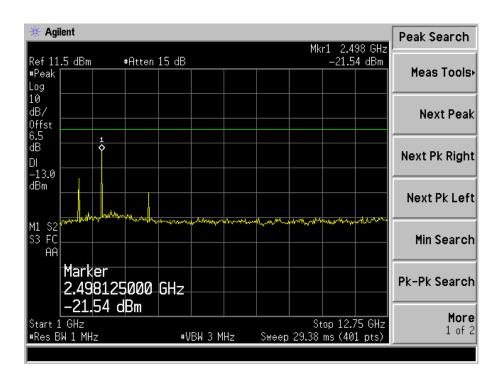






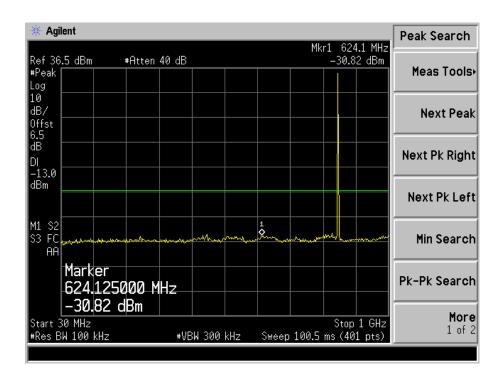
GPRS Middle Channel

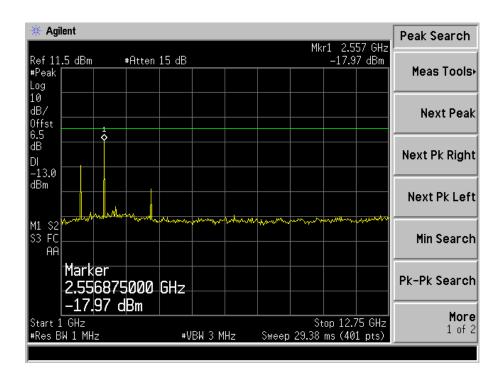






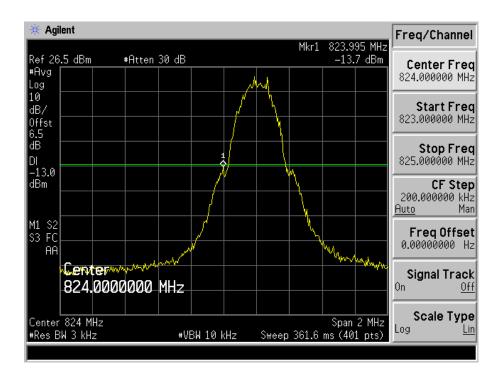
GPRS High Channel



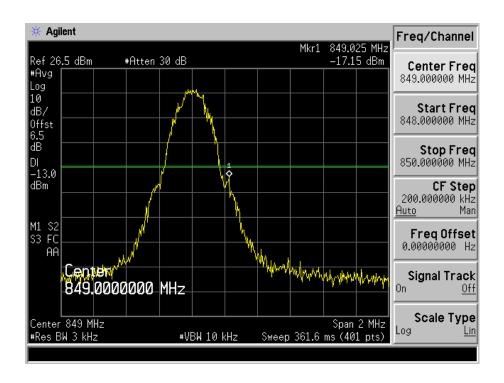




GPRS Low Band Emission

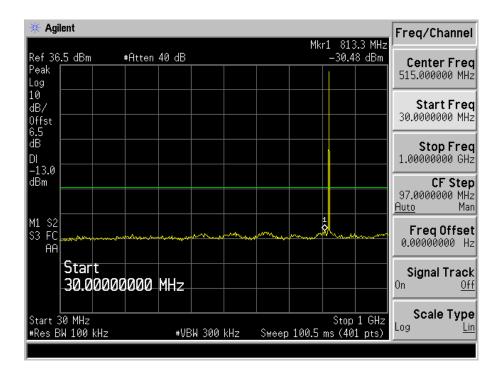


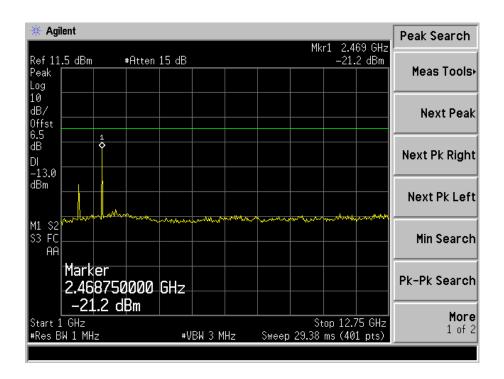
GPRS High Band Emission





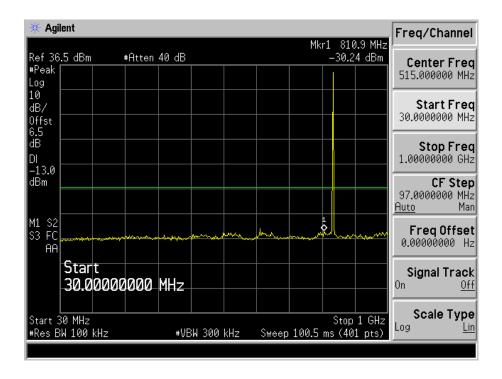
EDGE Low Channel

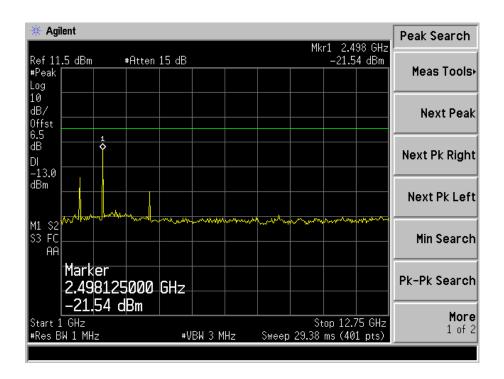






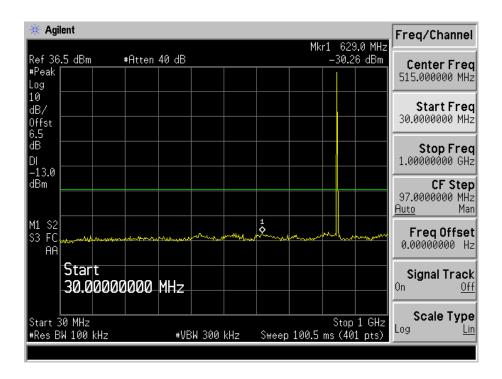
EDGE Middle Channel

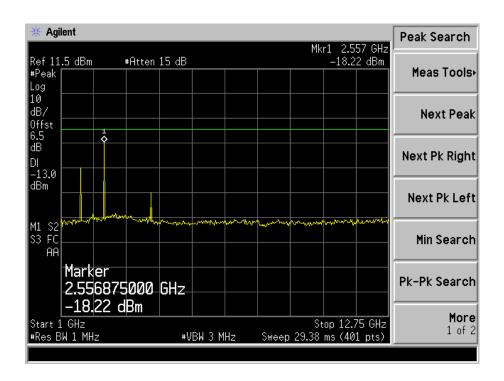






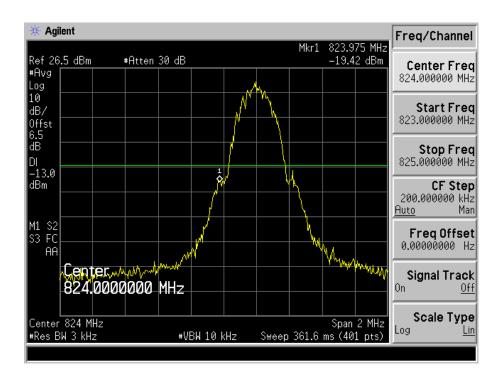
EDGE High Channel



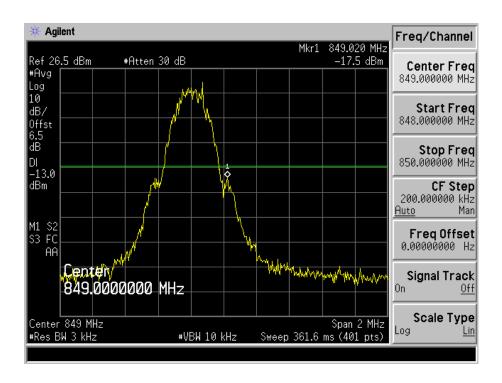




EDGE Low Band Emission

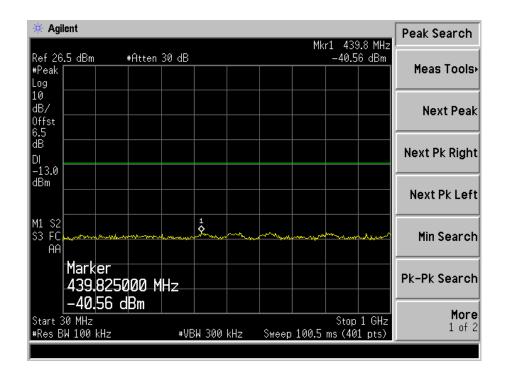


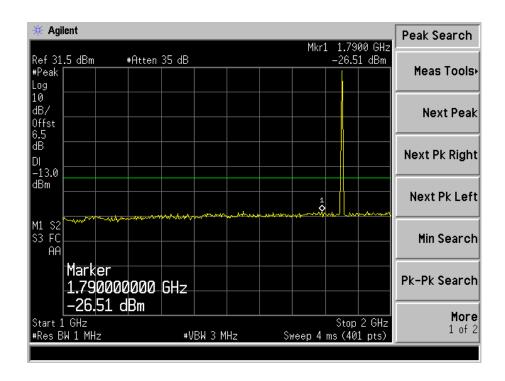
EDGE High Band Emission



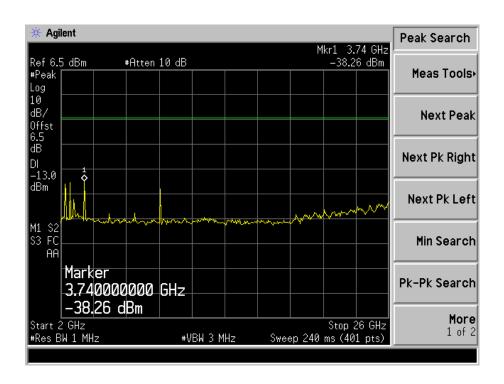


For PCS Band GSM Low Channel

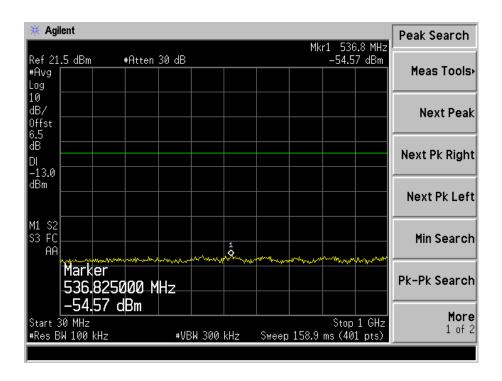




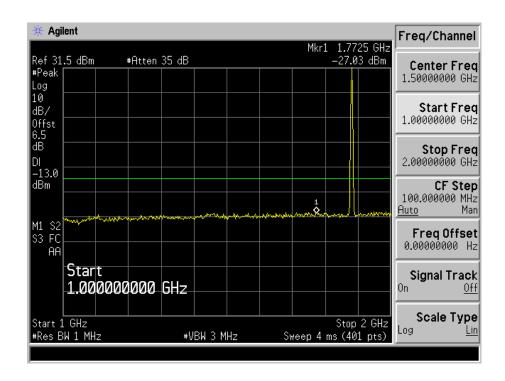


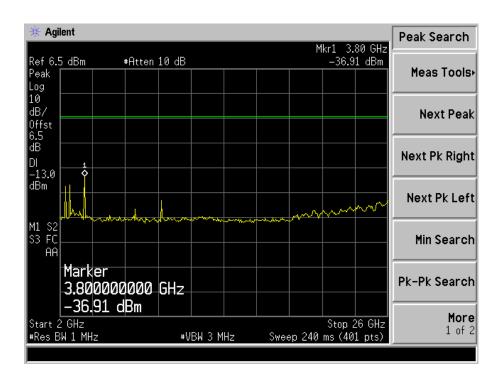


GSM Middle Channel



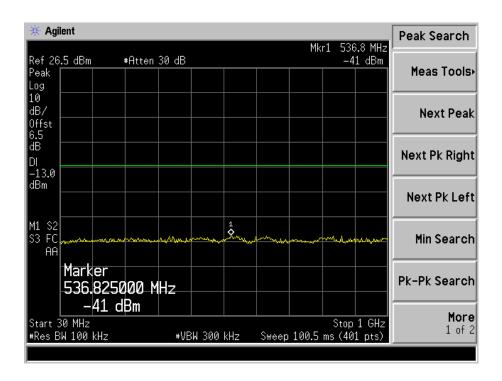


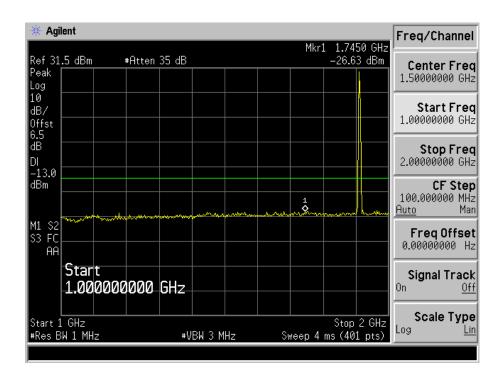




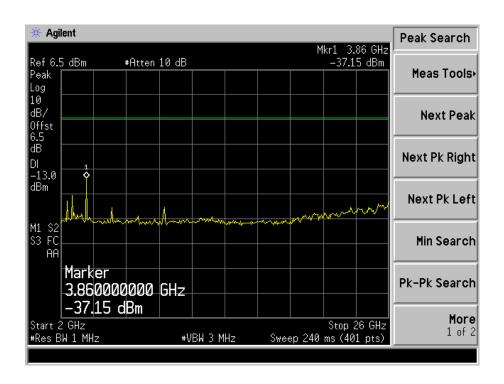


GSM High Channel

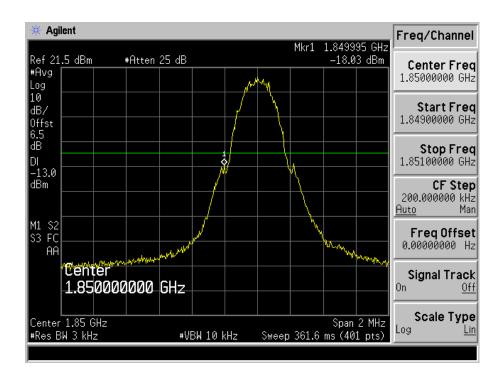






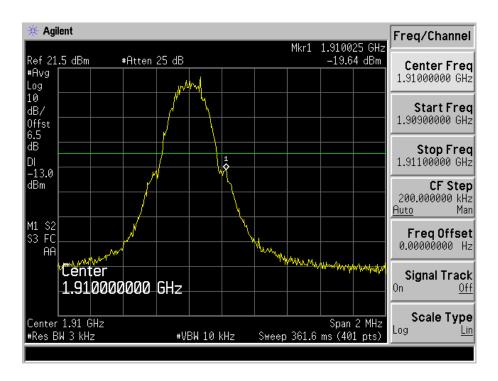


GSM Low Band Emission

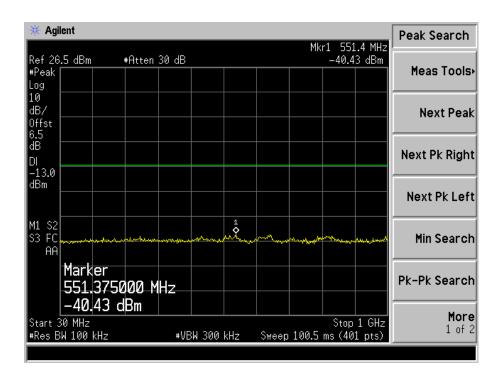




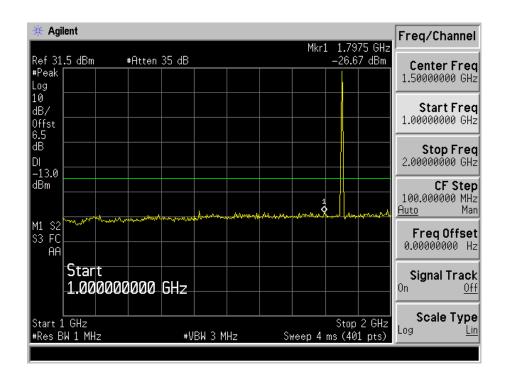
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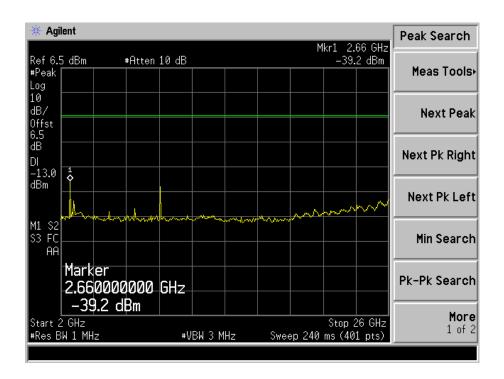


GPRS Low Channel



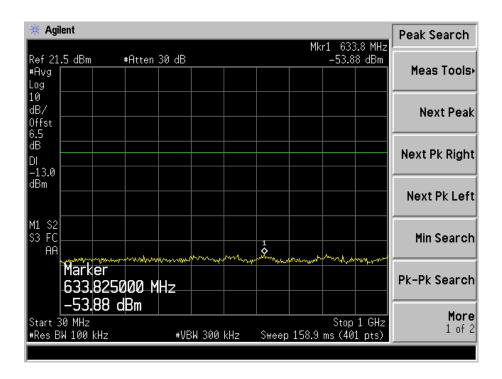


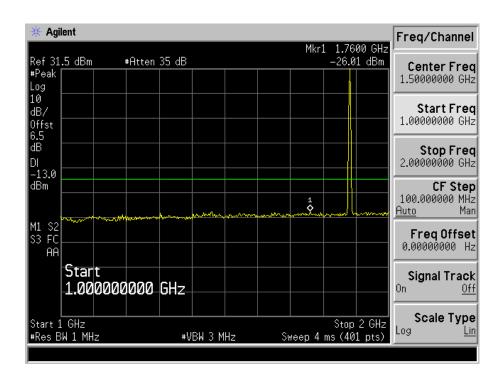




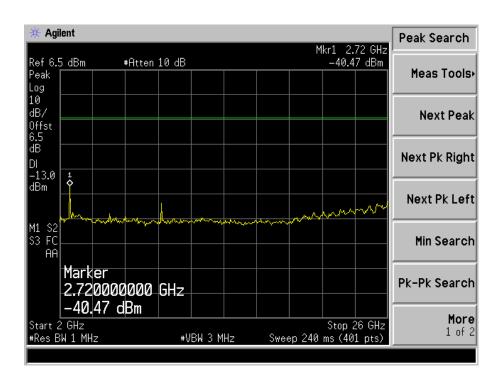


GPRS Middle Channel

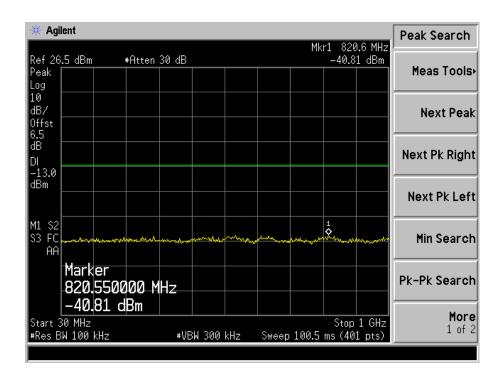




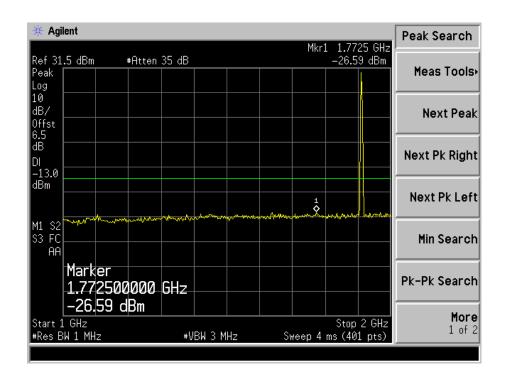


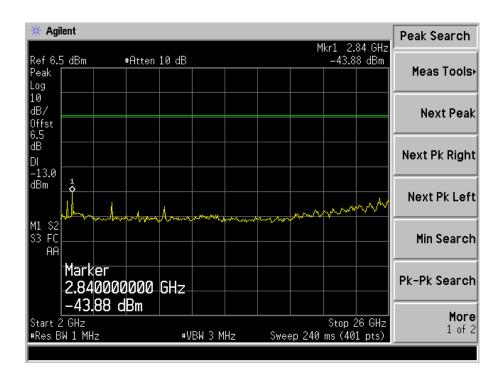


GPRS High Channel



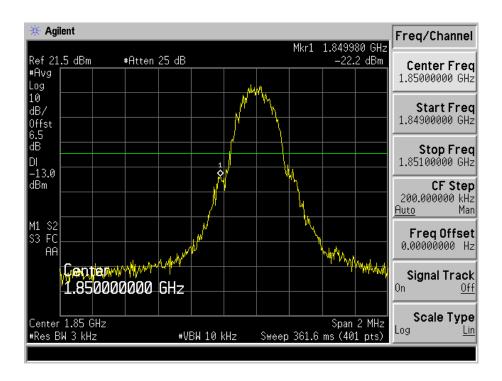




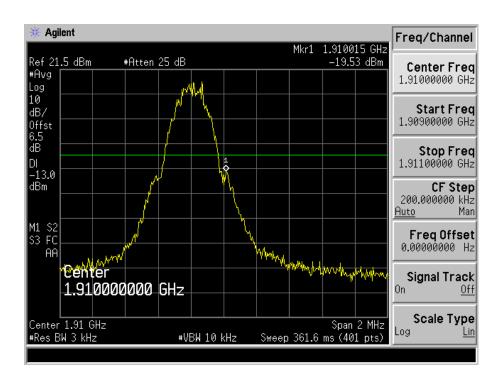




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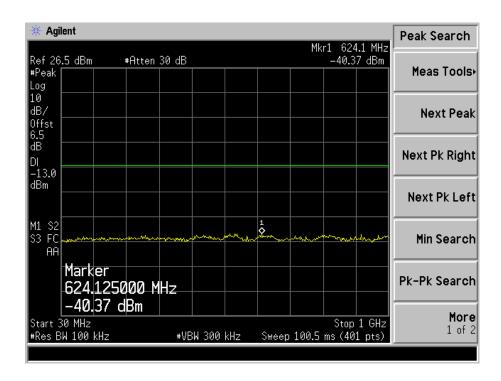


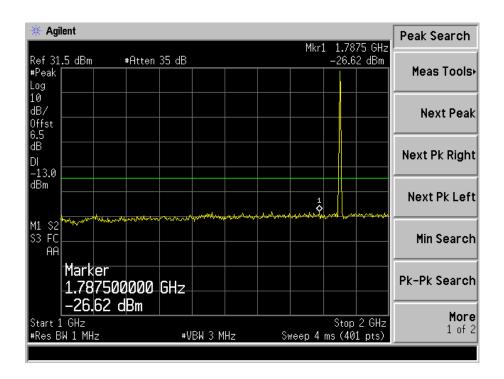
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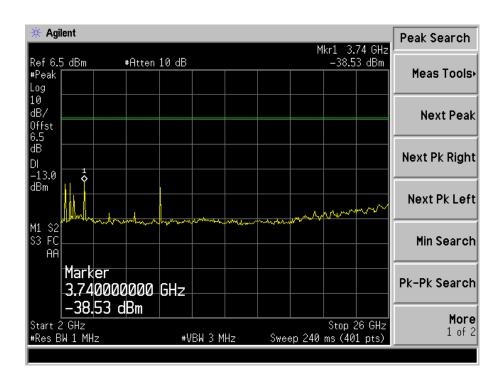


EDGE Low Channel

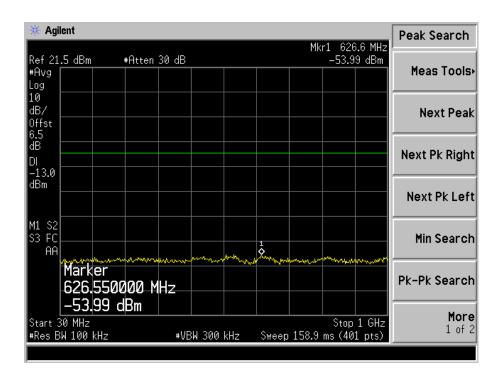




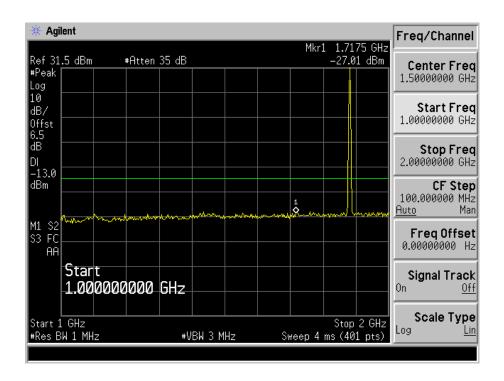


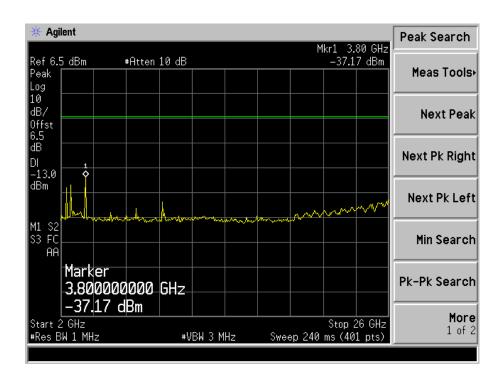


EDGE Middle Channel



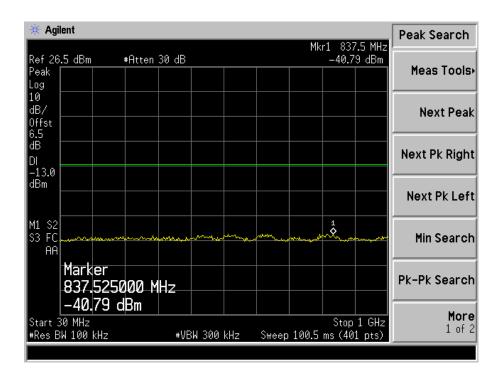


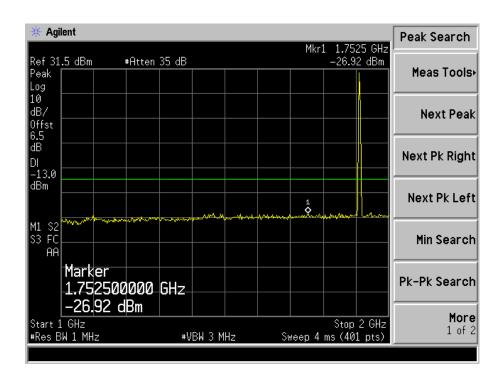




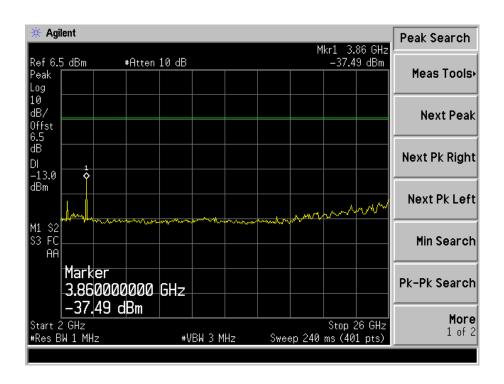


EDGE High Channel

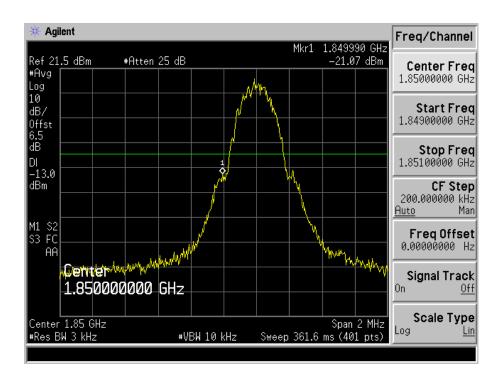






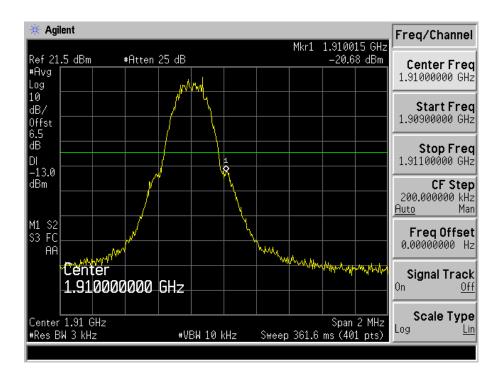


EDGE Low Band Emission

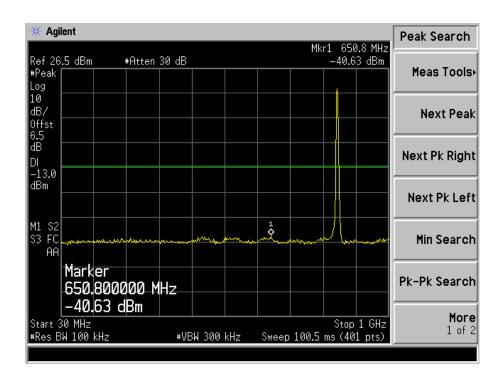




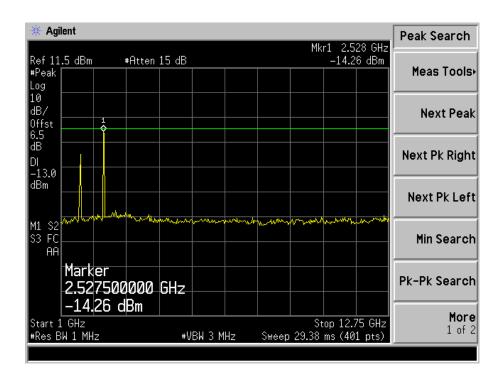
EDGE High Band Emission



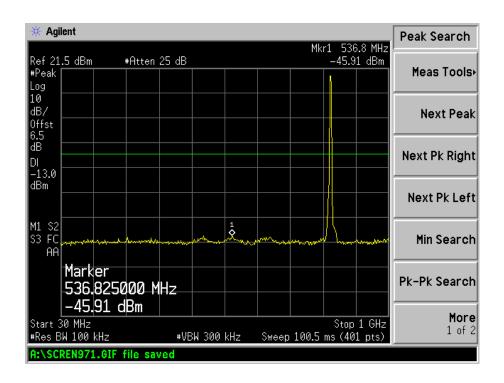
For Band VWCDMA Low Channel



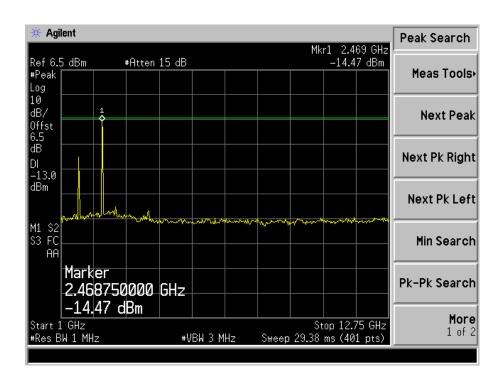




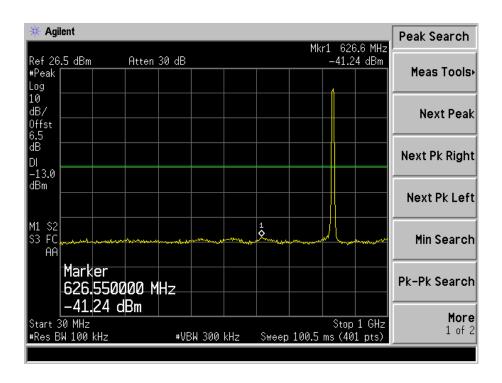
WCDMA Middle Channel



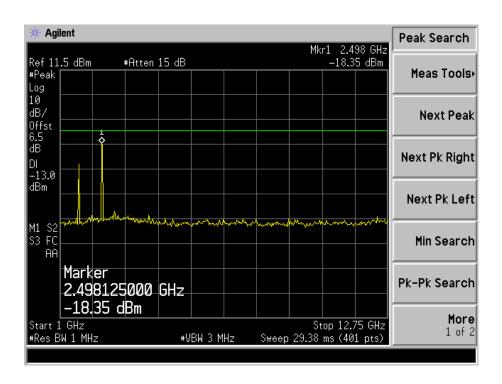




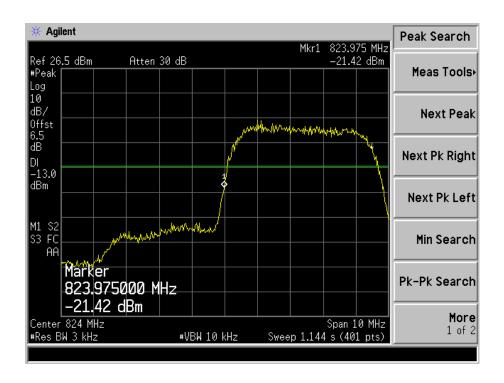
WCDMA High Channel





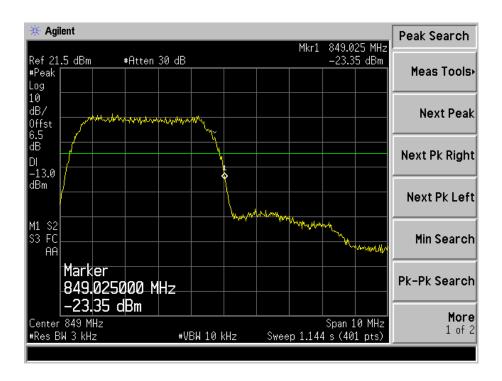


WCDMA Low Band Spurious Emission

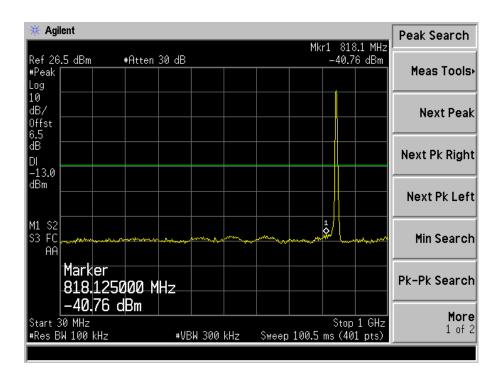




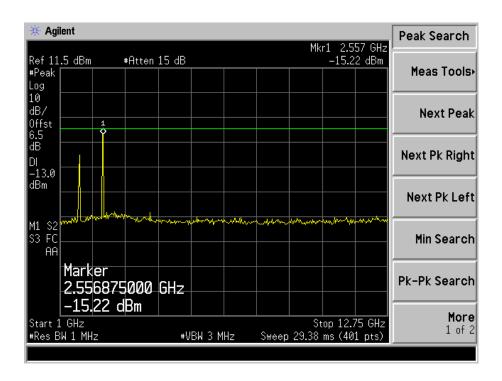
WCDMA High Band Spurious Emission



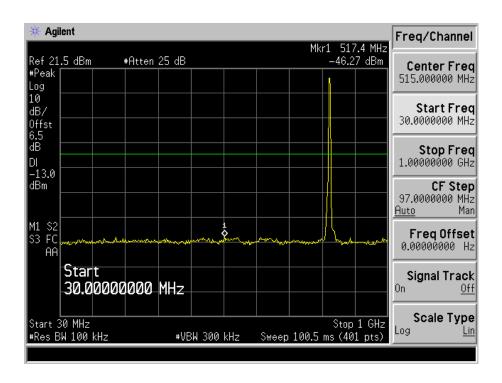
HSDPA Low Channel



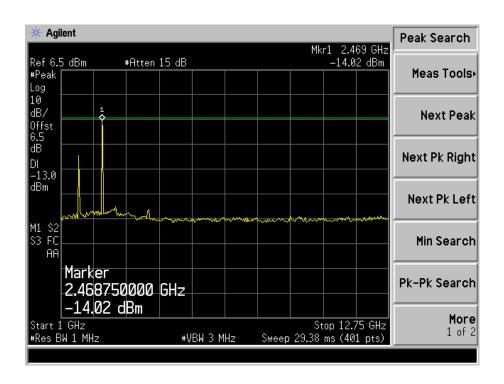




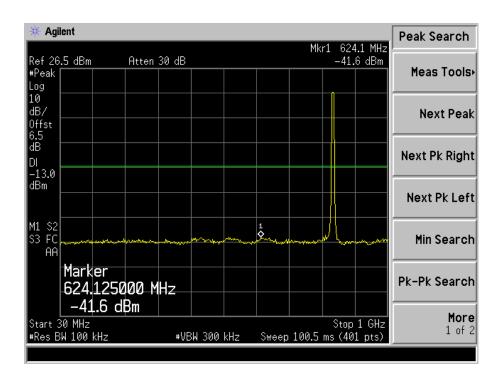
HSDPA Middle Channel



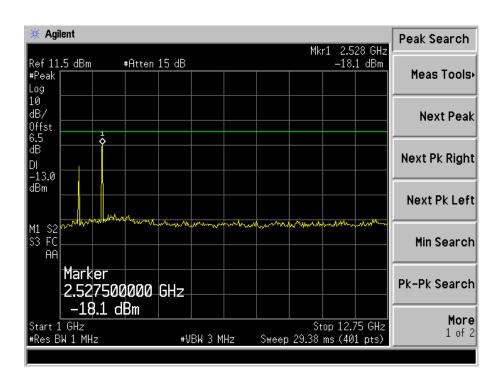




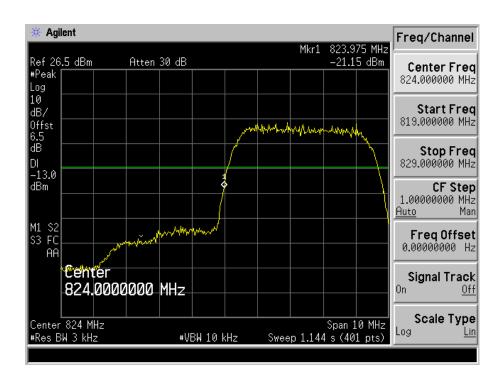
HSDPA High Channel





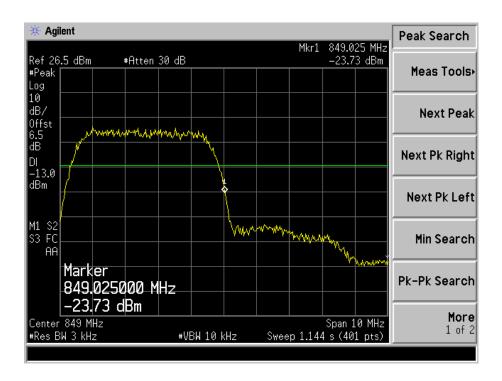


HSDPA Low Band Spurious Emission

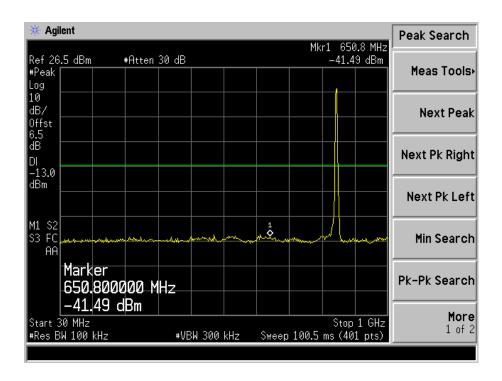




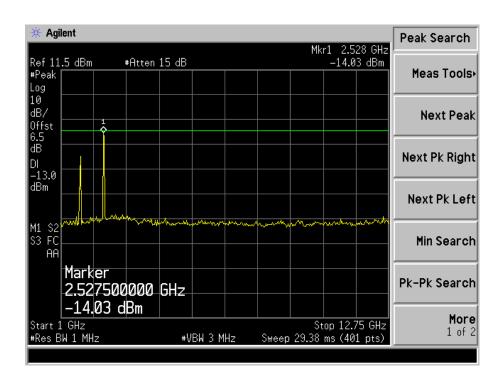
HSDPA High Band Spurious Emission



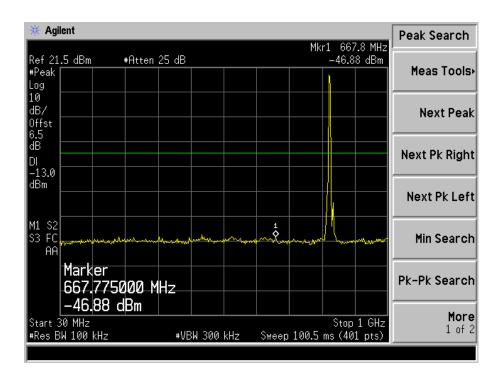
HSUPA Low Channel



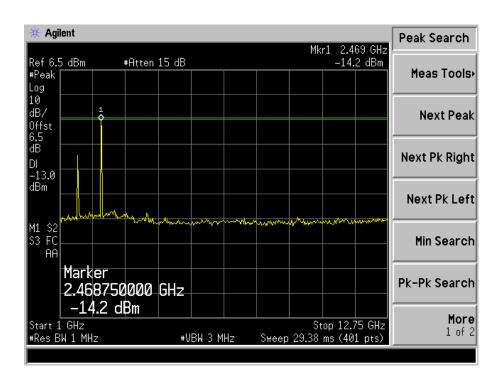




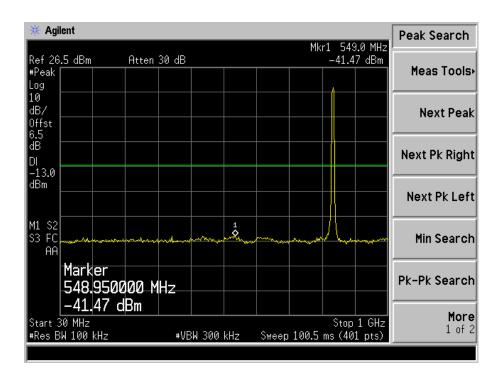
HSUPA Middle Channel



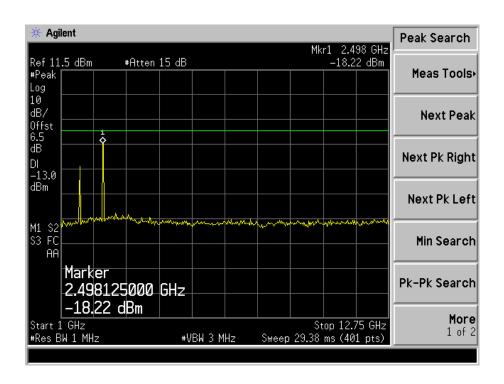




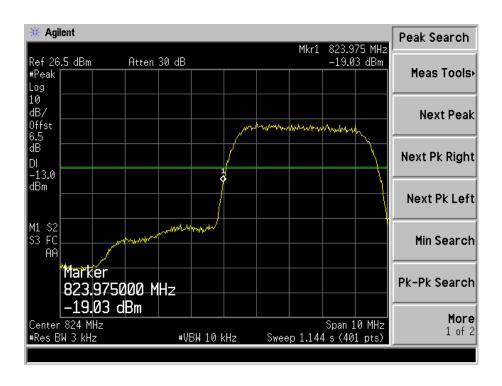
HSUPA High Channel





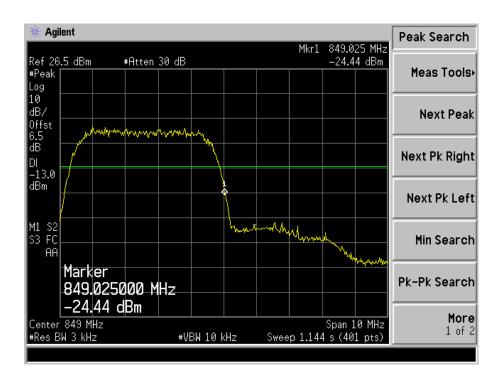


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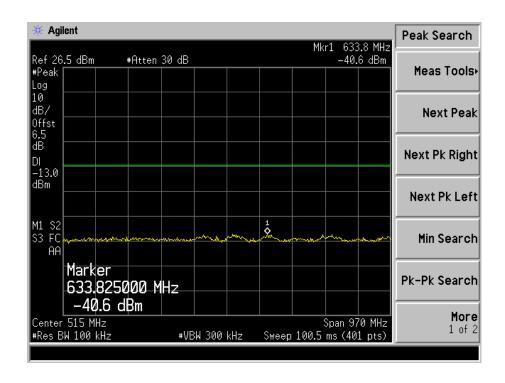




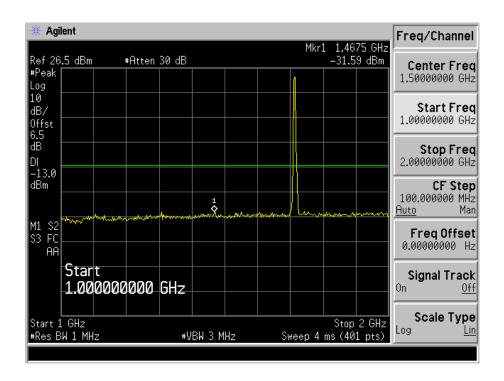
HSUPA High Band Spurious Emission

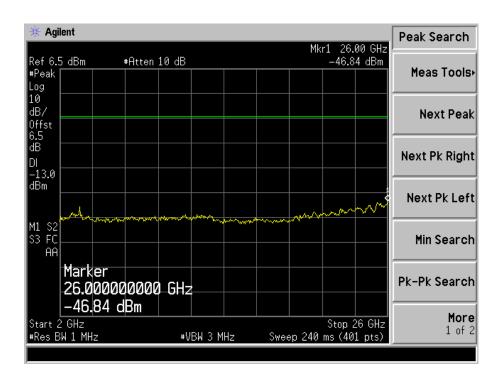


For Band IVWCDMA Low Channel



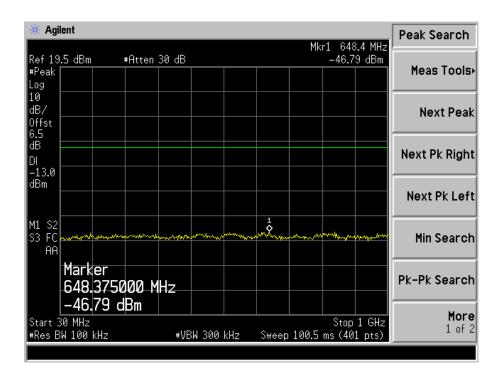


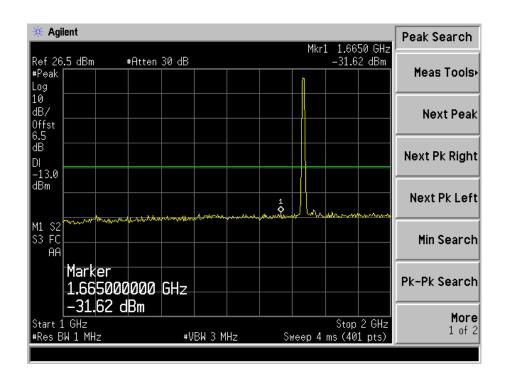




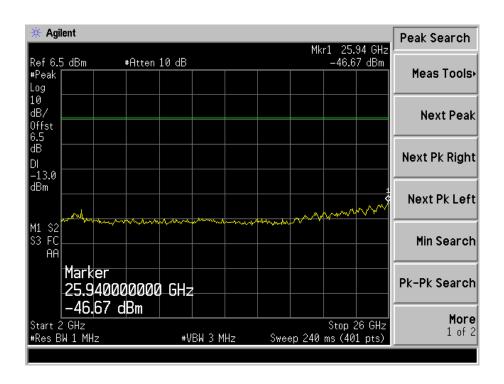


WCDMA Middle Channel

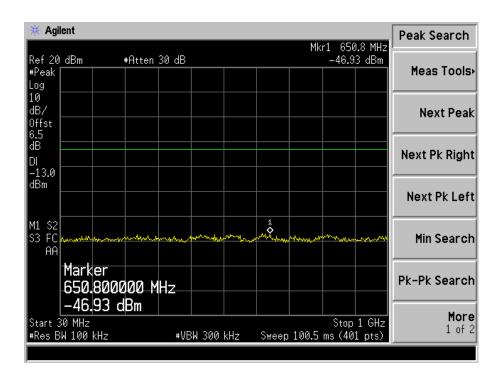




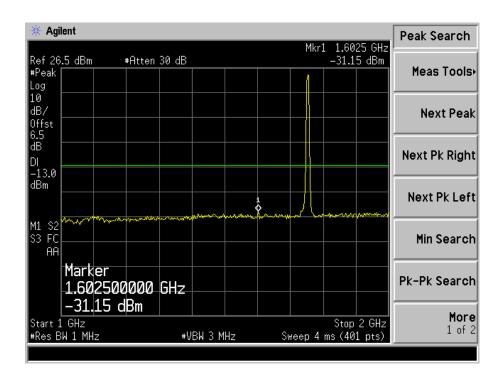


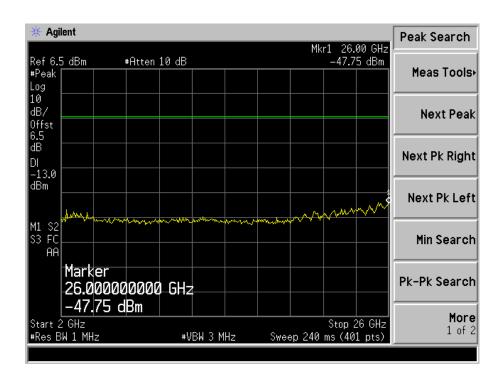


WCDMA High Channel



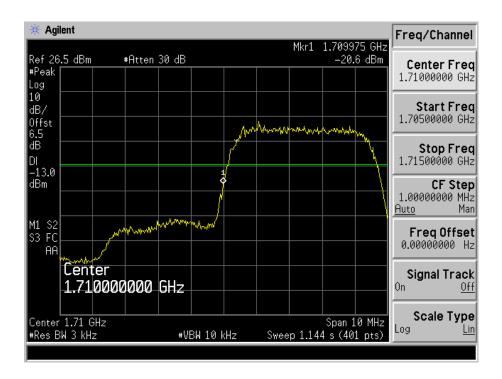




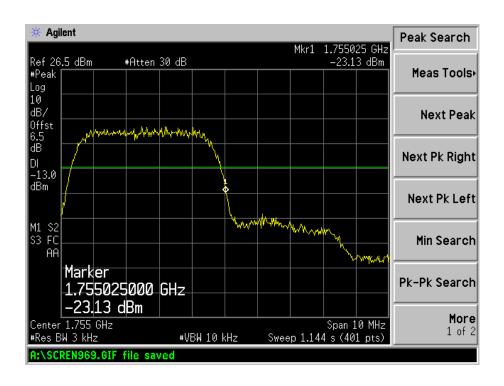




WCDMA Low Band Spurious Emission

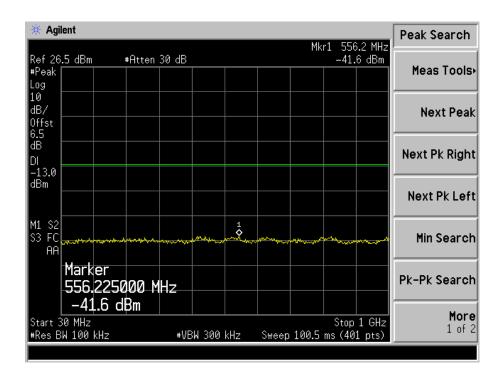


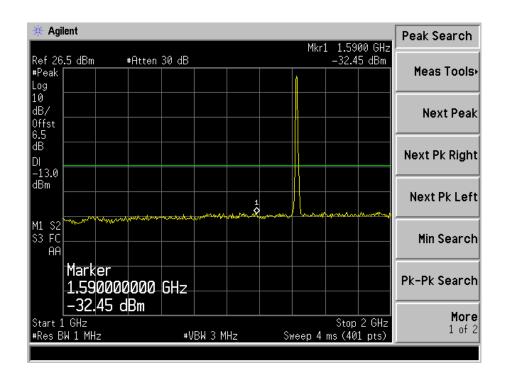
WCDMA High Band Spurious Emission



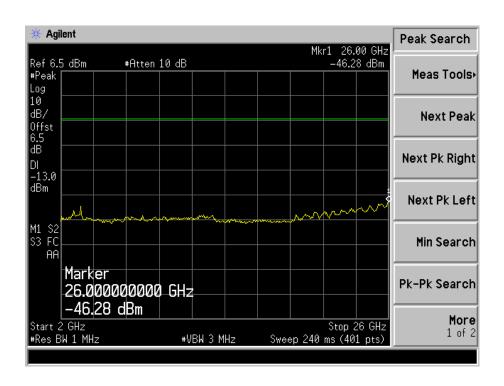


HSDPA Low Channel

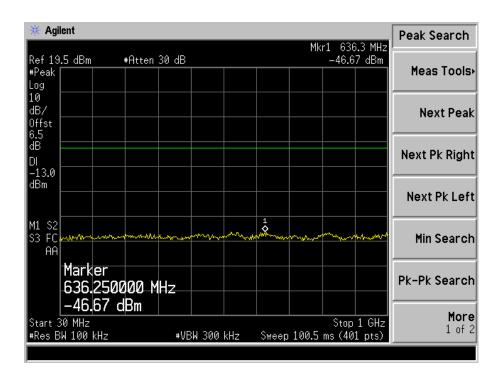




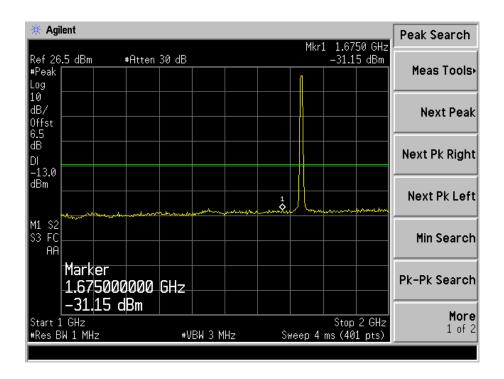


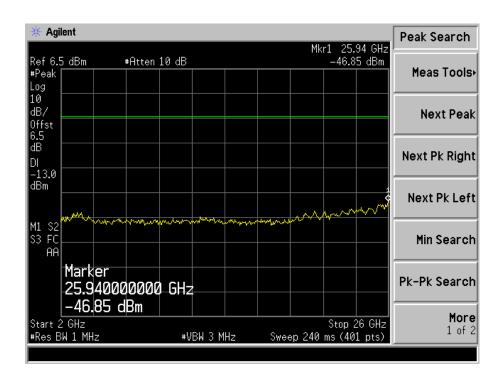


HSDPA Middle Channel



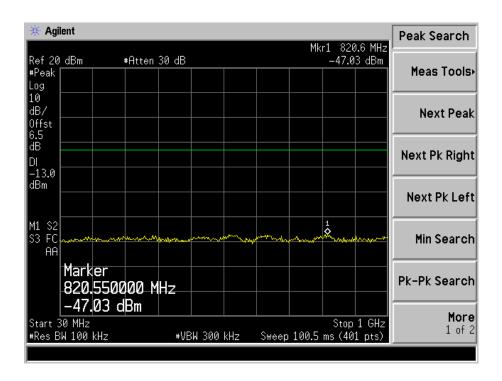


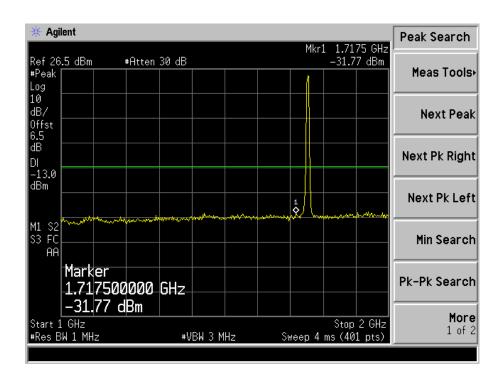




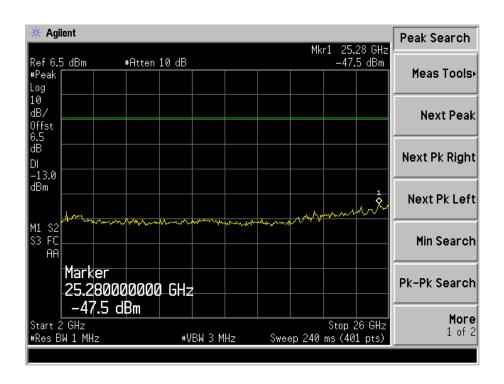


HSDPA High Channel

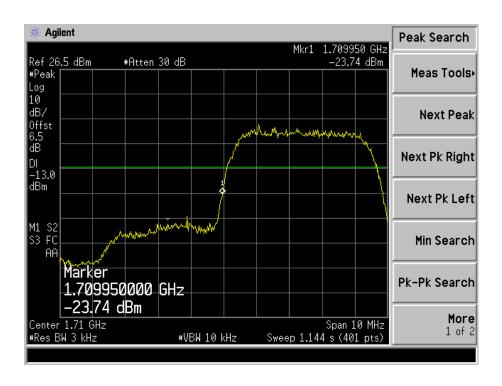






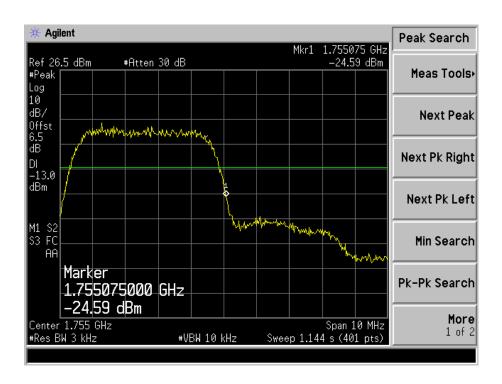


HSDPA Low Band Spurious Emission

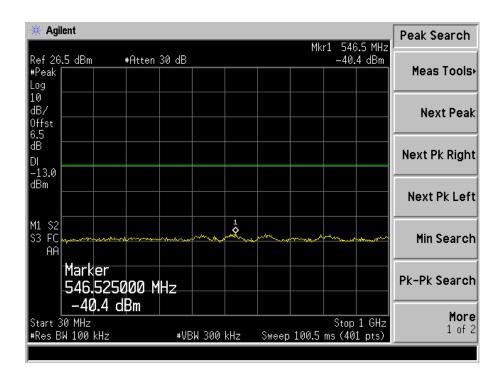




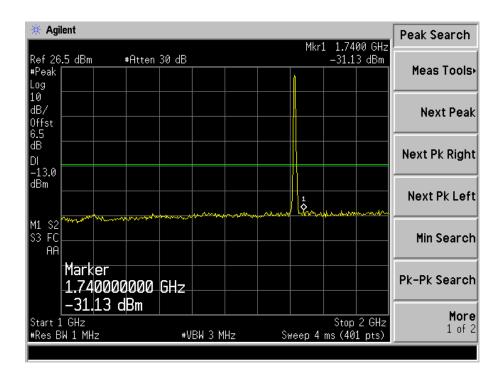
HSDPA High Band Spurious Emission

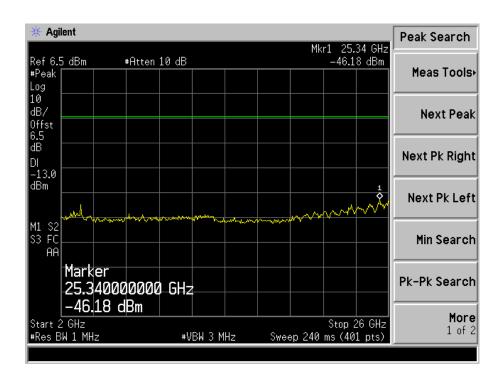


HSUPA Low Channel



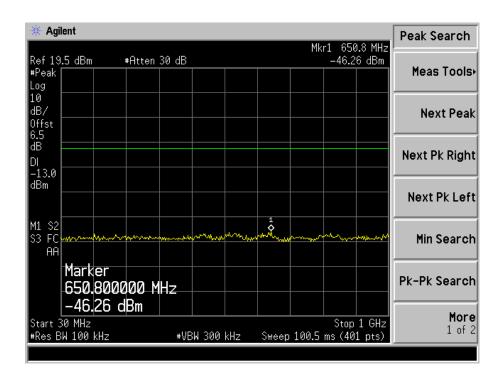


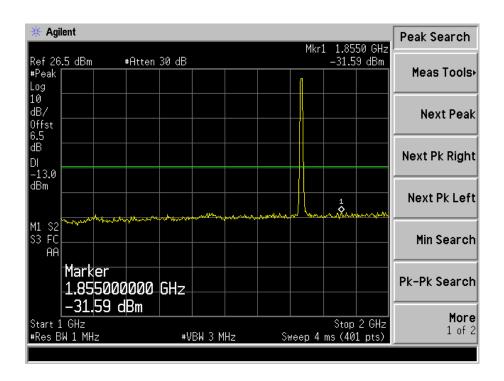




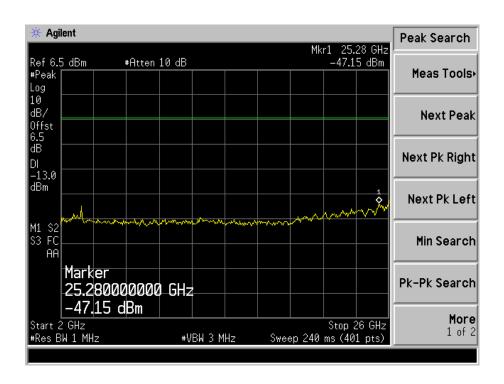


HSUPA Middle Channel

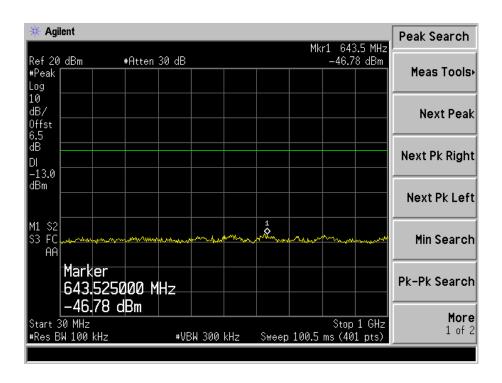




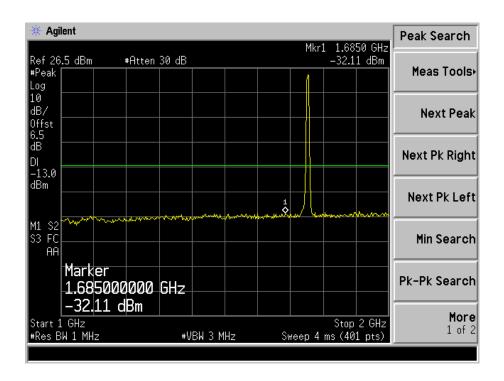


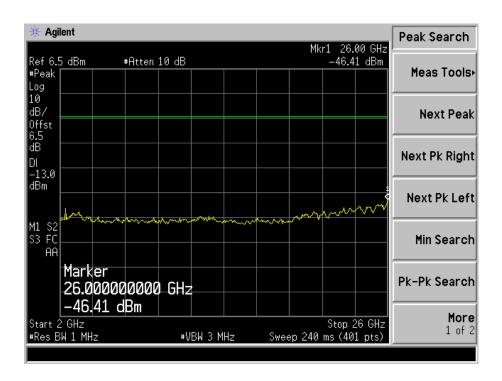


HSUPA High Channel



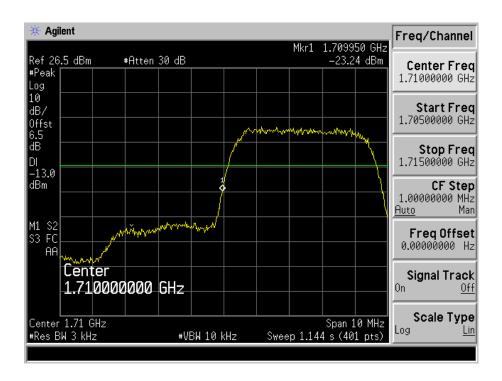




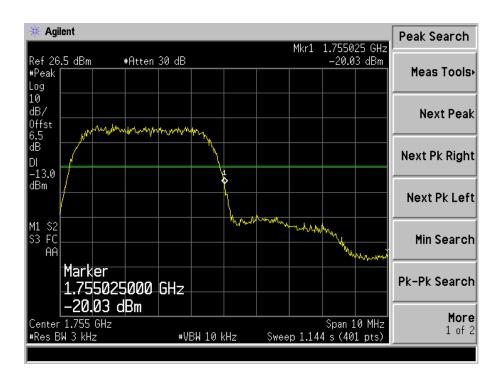




HSUPA Low Band Spurious Emission

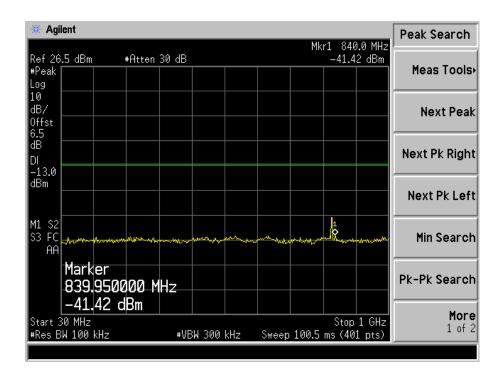


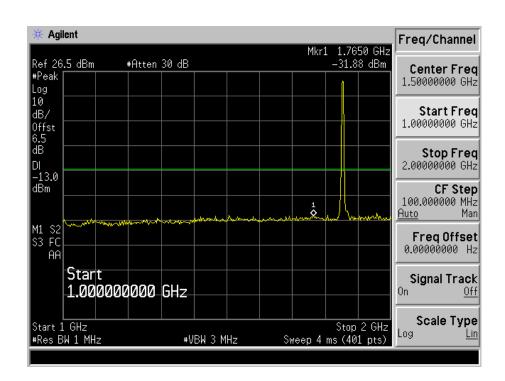
HSUPA High Band Spurious Emission



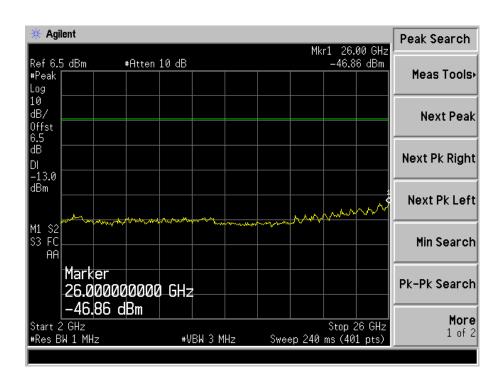


For Band II WCDMA Low Channel

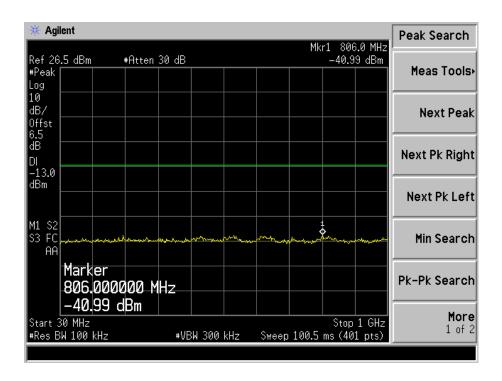




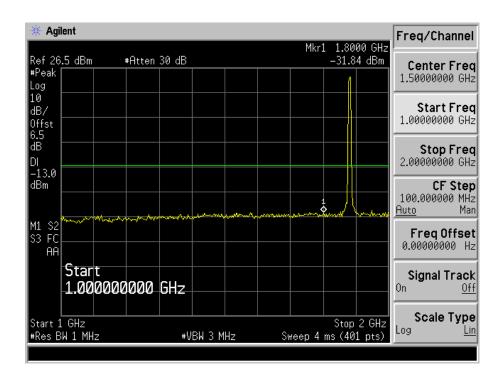


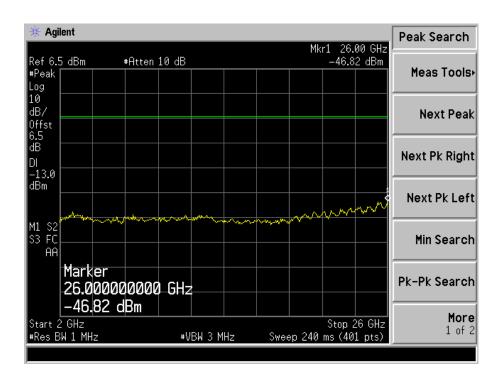


WCDMA Middle Channel



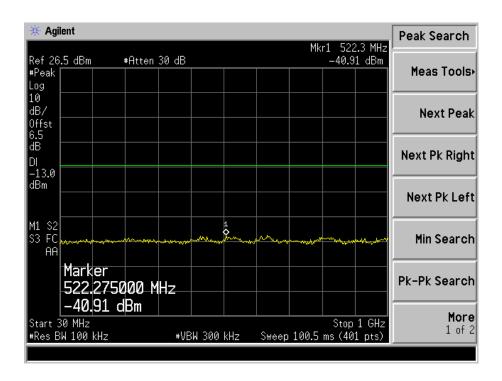


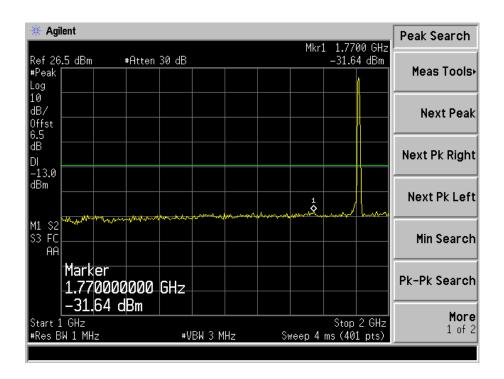




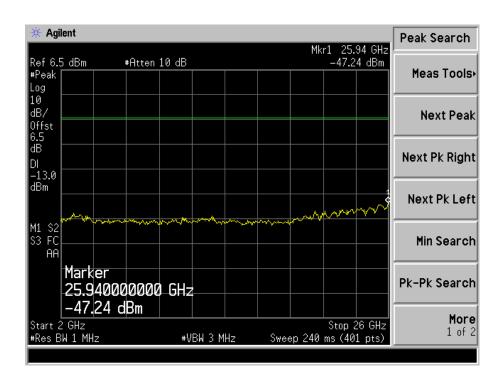


WCDMA High Channel

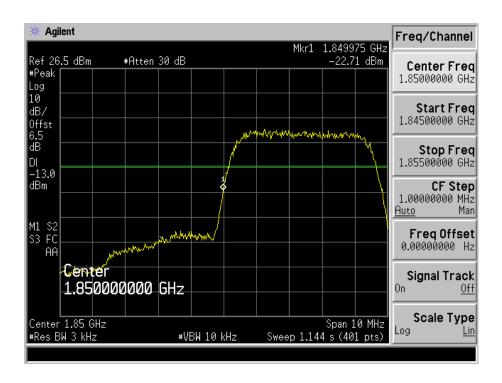






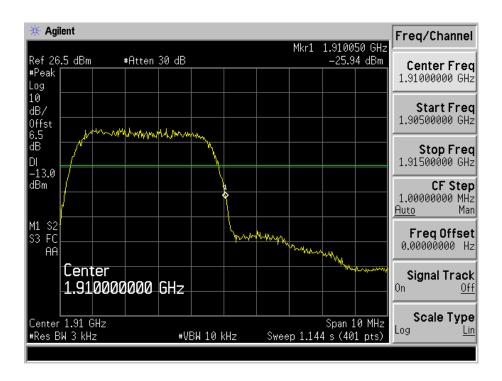


WCDMA Low Band Spurious Emission

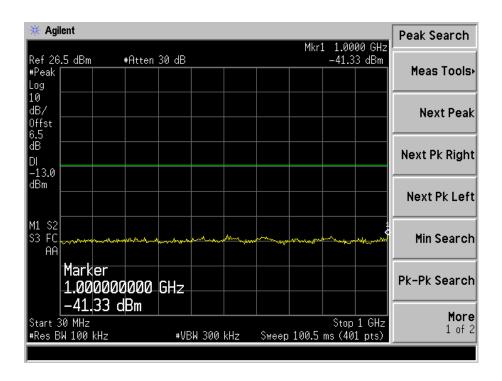




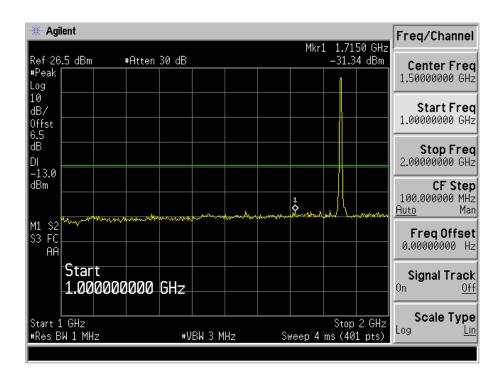
WCDMA High Band Spurious Emission

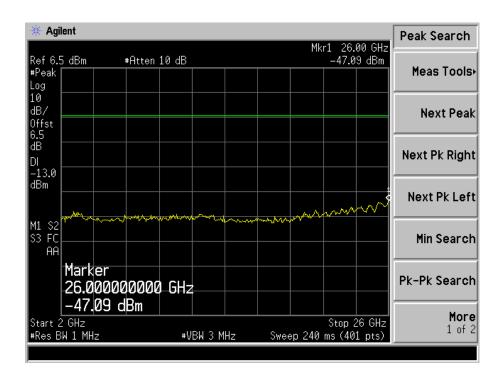


HSDPA Low Channel



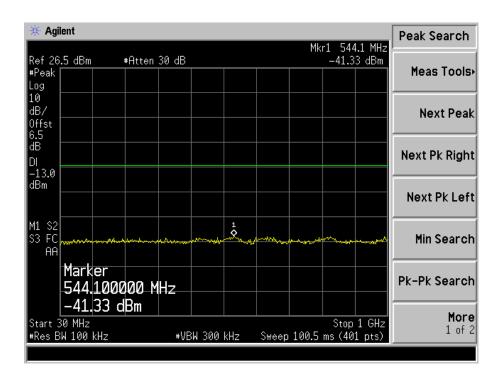


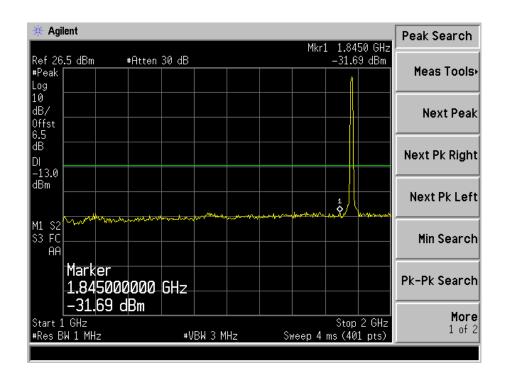




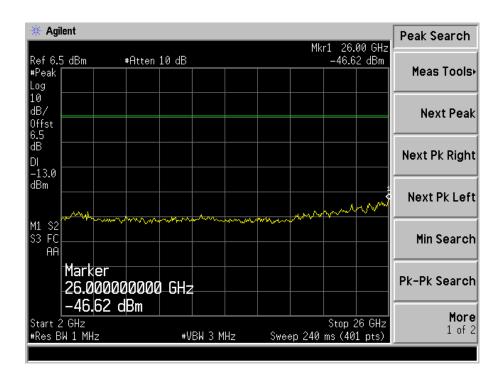


HSDPA Middle Channel

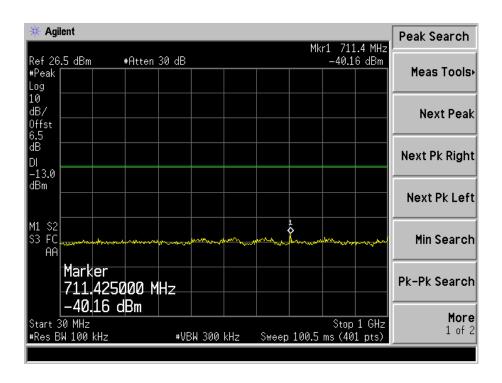




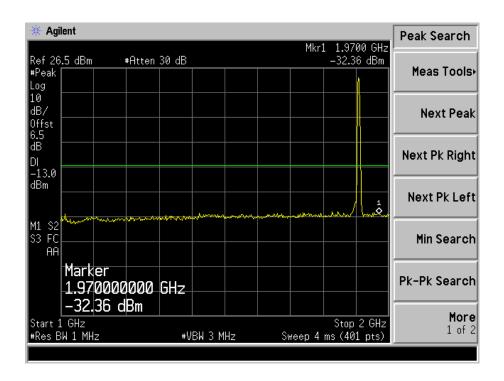


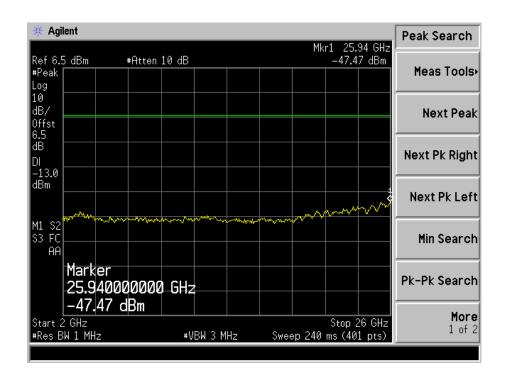


HSDPA High Channel



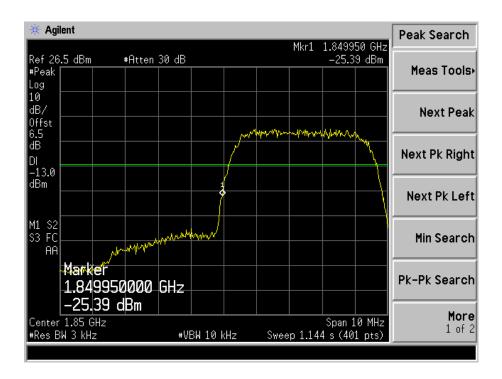




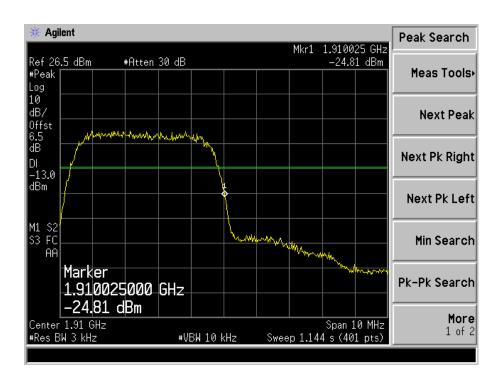




HSDPA Low Band Spurious Emission

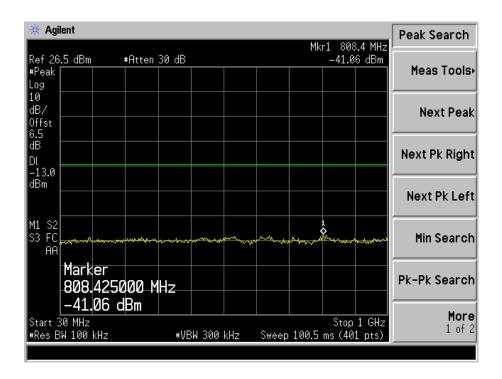


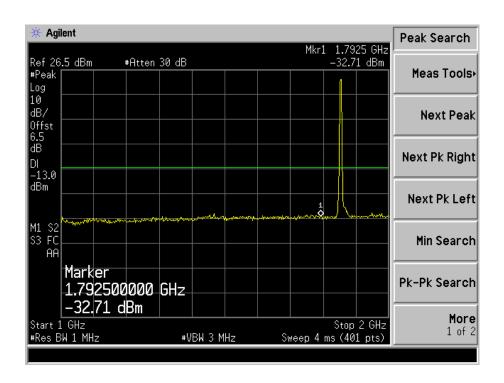
HSDPA High Band Spurious Emission



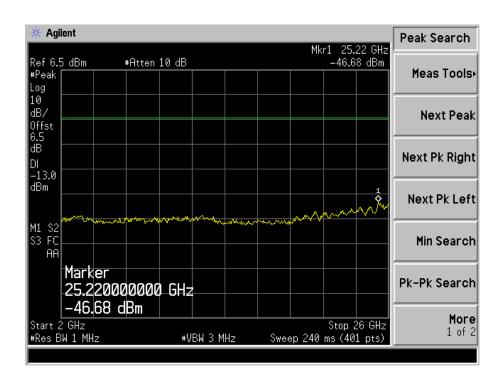


HSUPA Low Channel

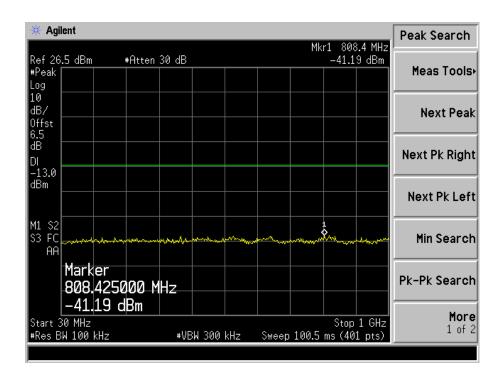




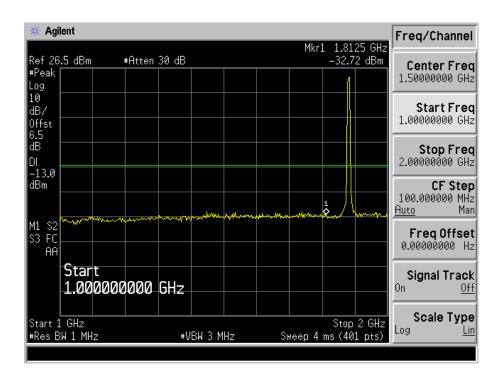


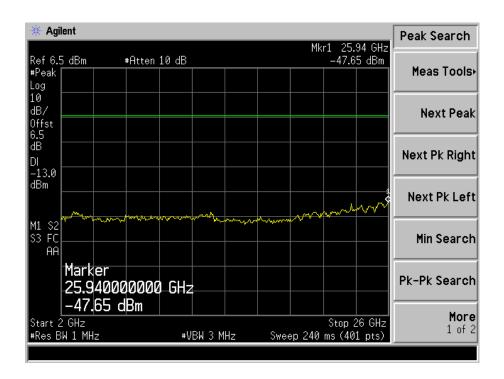


HSUPA Middle Channel



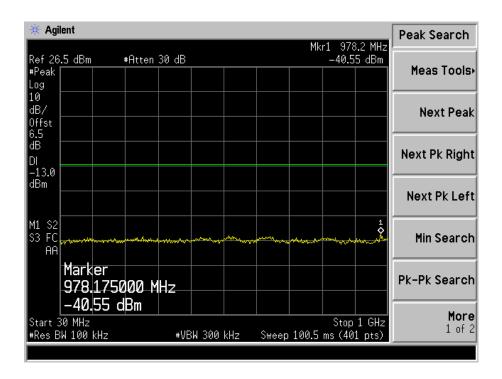


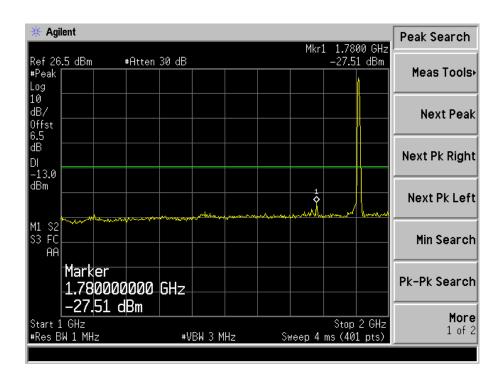




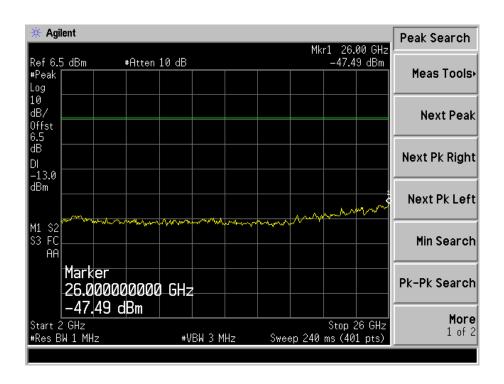


HSUPA High Channel

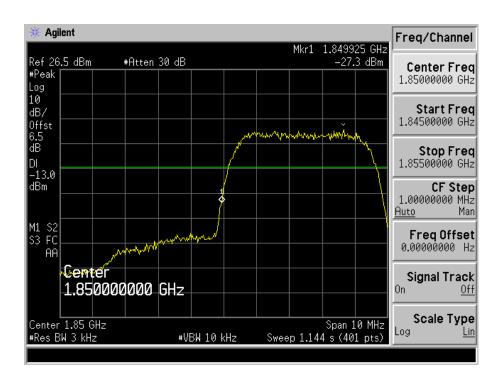






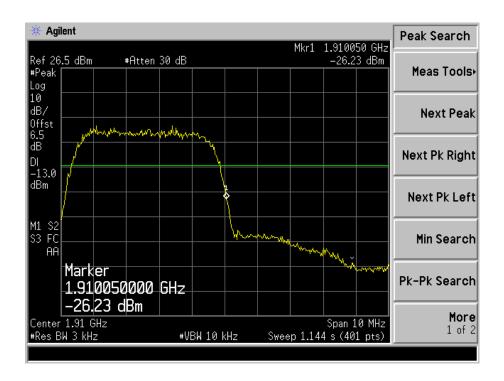


HSUPA Low Band Spurious Emission





HSUPA High Band Spurious Emission





Model: B125C

8. Spurious Radiated Emissions

8.1 Standard Applicable

According to $\S22.917(a)$, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

6

According to $\S24.238(a)$, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

According to $\S27.53$ (h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log 10$ (P) dB.

8.2 Test Procedure

- 1. The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

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

8.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

8.4 Summary of Test Results/Plots

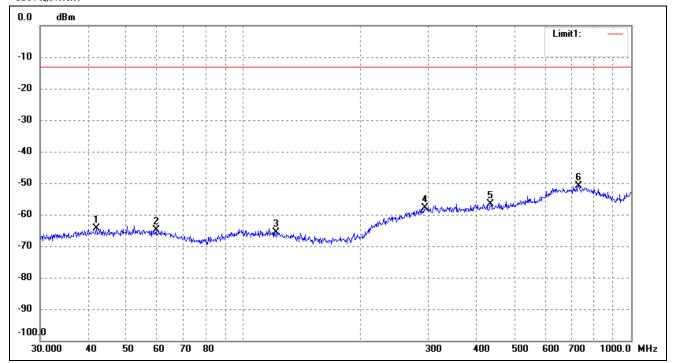
According to the data below, the FCC Part 22.917 and 24.238 standards, and had the worst margin of:

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



Spurious Emission From 30MHz to 1GHz For Cellular Band_ GSM850 Mode

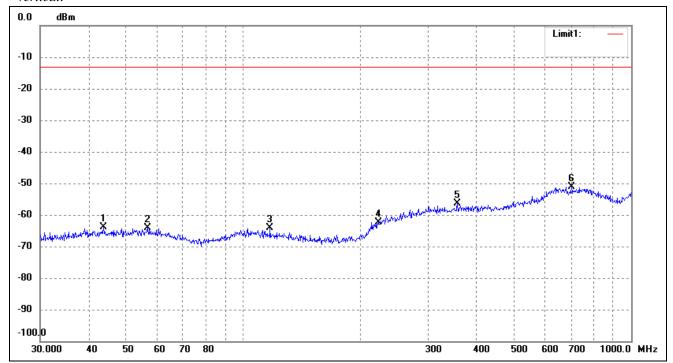
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	41.8596	-81.04	16.73	-64.31	-13.00	-51.31	ERP
2	59.6493	-81.82	16.83	-64.99	-13.00	-51.99	ERP
3	121.5486	-82.08	16.49	-65.59	-13.00	-52.59	ERP
4	294.1137	-81.30	23.54	-57.76	-13.00	-44.76	ERP
5	434.0651	-80.81	24.11	-56.70	-13.00	-43.70	ERP
6	731.9203	-81.31	30.34	-50.97	-13.00	-37.97	ERP



Vertical:

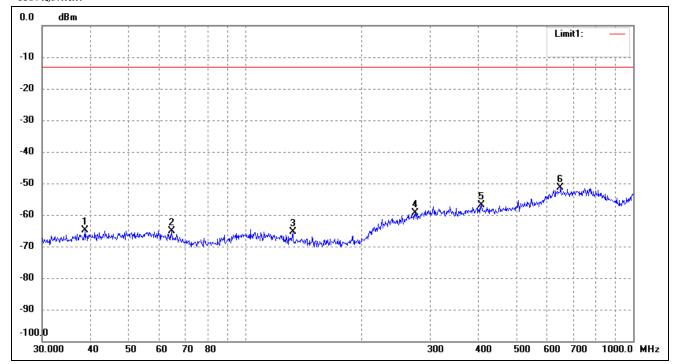


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	43.6585	-80.70	16.74	-63.96	-13.00	-50.96	ERP
2	56.7917	-80.98	16.80	-64.18	-13.00	-51.18	ERP
3	117.3603	-80.67	16.63	-64.04	-13.00	-51.04	ERP
4	222.9502	-81.90	19.65	-62.25	-13.00	-49.25	ERP
5	356.6758	-79.96	23.62	-56.34	-13.00	-43.34	ERP
6	701.7610	-80.05	29.04	-51.01	-13.00	-38.01	ERP



For Cellular Band_ GSM1900 Mode

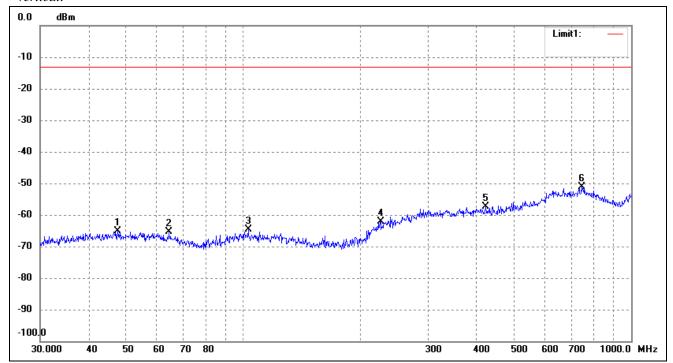
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	38.7518	-81.41	16.54	-64.87	-13.00	-51.87	ERP
2	64.6594	-80.88	15.86	-65.02	-13.00	-52.02	ERP
3	132.6850	-80.88	15.56	-65.32	-13.00	-52.32	ERP
4	274.1939	-81.77	22.52	-59.25	-13.00	-46.25	ERP
5	406.0880	-81.18	24.25	-56.93	-13.00	-43.93	ERP
6	649.6597	-81.09	29.64	-51.45	-13.00	-38.45	ERP



Vertical:



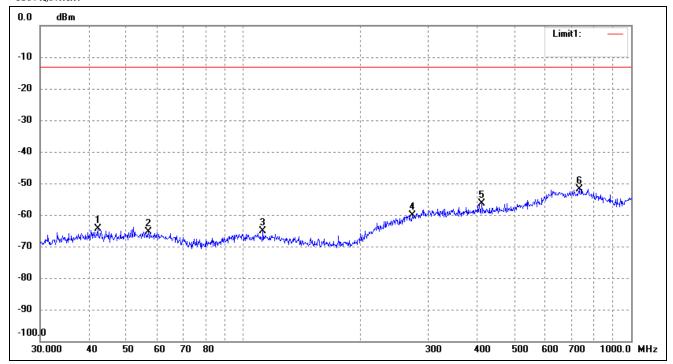
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	47.4918	-81.81	16.76	-65.05	-13.00	-52.05	ERP
2	64.4331	-81.40	15.91	-65.49	-13.00	-52.49	ERP
3	103.0800	-81.20	16.70	-64.50	-13.00	-51.50	ERP
4	226.0994	-81.90	19.85	-62.05	-13.00	-49.05	ERP
5	422.0577	-81.22	23.75	-57.47	-13.00	-44.47	ERP
6	744.8661	-81.75	30.61	-51.14	-13.00	-38.14	ERP

Note: Margin = (Reading + Correct) - Limit



For band 5 Mode

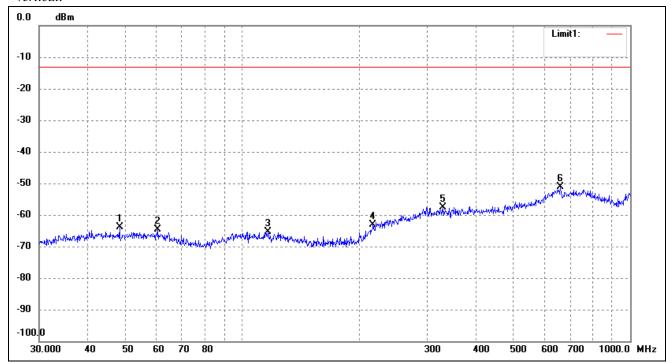
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	42.3022	-80.99	16.74	-64.25	-13.00	-51.25	ERP
2	56.9912	-82.11	16.80	-65.31	-13.00	-52.31	ERP
3	112.5244	-81.78	16.65	-65.13	-13.00	-52.13	ERP
4	273.2341	-82.51	22.44	-60.07	-13.00	-47.07	ERP
5	411.8240	-80.40	24.02	-56.38	-13.00	-43.38	ERP
6	734.4913	-82.34	30.49	-51.85	-13.00	-38.85	ERP



Vertical:

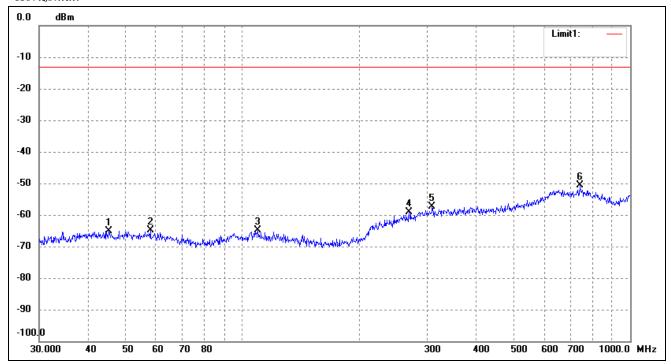


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	48.3318	-80.69	16.76	-63.93	-13.00	-50.93	ERP
2	60.7044	-81.28	16.70	-64.58	-13.00	-51.58	ERP
3	116.5401	-81.89	16.63	-65.26	-13.00	-52.26	ERP
4	217.5443	-82.04	18.95	-63.09	-13.00	-50.09	ERP
5	329.0390	-81.03	23.47	-57.56	-13.00	-44.56	ERP
6	661.1505	-80.55	29.44	-51.11	-13.00	-38.11	ERP



For band 4 Mode

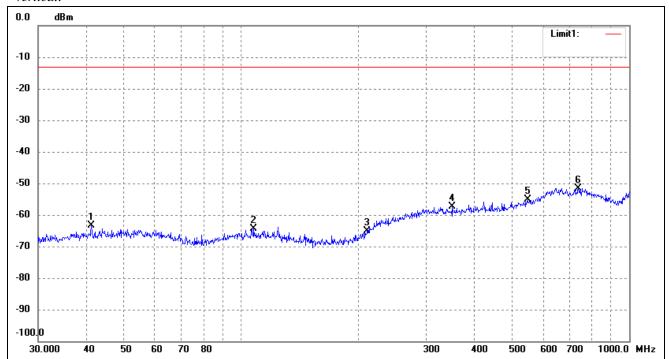
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	45.3755	-81.77	16.75	-65.02	-13.00	-52.02	ERP
2	57.9993	-81.63	16.78	-64.85	-13.00	-51.85	ERP
3	109.7960	-81.51	16.66	-64.85	-13.00	-51.85	ERP
4	269.4284	-81.23	22.17	-59.06	-13.00	-46.06	ERP
5	308.9126	-81.19	23.74	-57.45	-13.00	-44.45	ERP
6	742.2587	-81.42	30.73	-50.69	-13.00	-37.69	ERP



Vertical:

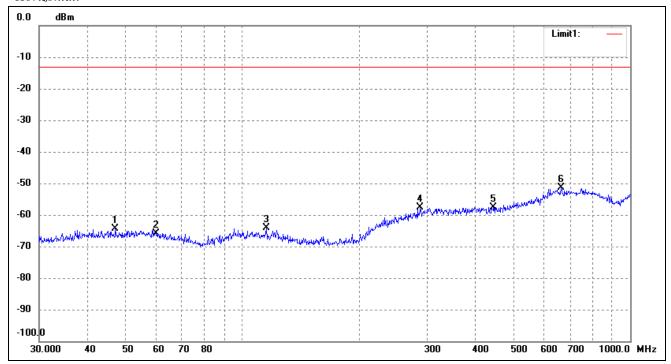


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	41.1320	-80.21	16.73	-63.48	-13.00	-50.48	ERP
2	107.8877	-81.00	16.68	-64.32	-13.00	-51.32	ERP
3	211.5265	-82.65	17.65	-65.00	-13.00	-52.00	ERP
4	350.4768	-80.76	23.45	-57.31	-13.00	-44.31	ERP
5	547.0977	-80.83	25.68	-55.15	-13.00	-42.15	ERP
6	739.6605	-82.39	30.80	-51.59	-13.00	-38.59	ERP



For band 2 Mode

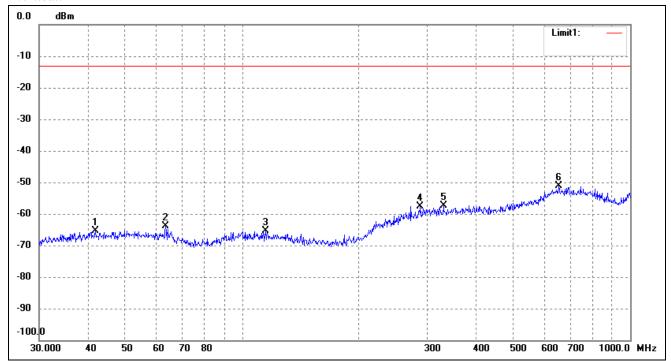
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	47.1599	-81.23	16.76	-64.47	-13.00	-51.47	ERP
2	60.0691	-82.79	16.82	-65.97	-13.00	-52.97	ERP
3	115.7256	-80.78	16.64	-64.14	-13.00	-51.14	ERP
4	287.9904	-80.87	23.27	-57.60	-13.00	-44.60	ERP
5	444.8514	-82.02	24.42	-57.60	-13.00	-44.60	ERP
6	663.4729	-80.89	29.56	-51.33	-13.00	-38.33	ERP



Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	
1	41.8596	-82.09	16.73	-65.36	-13.00	-52.36	ERP
2	63.5356	-80.00	16.10	-63.90	-13.00	-50.90	ERP
3	114.9169	-81.97	16.65	-65.32	-13.00	-52.32	ERP
4	287.9904	-80.80	23.27	-57.53	-13.00	-44.53	ERP
5	330.1949	-80.85	23.44	-57.41	-13.00	-44.41	ERP
6	654.2318	-80.74	29.51	-51.23	-13.00	-38.23	ERP

Note: Margin = (Reading + Correct) - Limit



Spurious Emissions Above 1GHz

$For \ Cellular \ Band_GSM850 \ Mode$

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
		Low	Channel (824.2N	ИНz)		
1648.4	-28.01	4.94	-23.07	-13	-10.07	Н
2472.6	-33.63	8.46	-25.17	-13	-12.17	Н
1648.4	-26.51	4.94	-21.57	-13	-8.57	V
2472.6	-35.16	8.46	-26.7	-13	-13.7	V
		Middl	e Channel (836.6	oMHz)		
1673.2	-26.4	5.11	-21.29	-13	-8.29	Н
2509.8	-33.38	8.54	-24.84	-13	-11.84	Н
1673.2	-29.68	5.11	-24.57	-13	-11.57	V
2509.8	-32.47	8.54	-23.93	-13	-10.93	V
		High	Channel (848.8M	MHz)		
1697.6	-28.63	5.29	-23.34	-13	-10.34	Н
2546.4	-33.73	8.59	-25.14	-13	-12.14	Н
1697.6	-27.92	5.29	-22.63	-13	-9.63	V
2546.4	-33.94	8.59	-25.35	-13	-12.35	V

For PCS Band_GSM1900 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
Low Channel (1850.2MHz)						
3700.4	-32.77	10.54	-22.23	-13	-9.23	Н
5550.6	-37.05	13.37	-23.68	-13	-10.68	Н
3700.4	-31.55	10.54	-21.01	-13	-8.01	V
5550.6	-39.65	13.37	-26.28	-13	-13.28	V
		Midd	le Channel (1880	MHz)		
3760.0	-34.52	10.64	-23.88	-13	-10.88	Н
5640.0	-38.46	13.54	-24.92	-13	-11.92	Н
3760.0	-32.42	10.64	-21.78	-13	-8.78	V
5640.0	-38.65	13.54	-25.11	-13	-12.11	V
		High	Channel (1909.8	MHz)		
3819.6	-34.19	10.74	-23.45	-13	-10.45	Н
5729.4	-36.38	13.71	-22.67	-13	-9.67	Н
3819.6	-35	10.74	-24.26	-13	-11.26	V
5729.4	-39.78	13.71	-26.07	-13	-13.07	V



For Band 5 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
		Low	Channel (826.4N	ИНz)		
1652.8	-34.57	4.97	-29.6	-13	-16.6	Н
2479.2	-41.36	8.47	-32.89	-13	-19.89	Н
1652.8	-36.04	4.97	-31.07	-13	-18.07	V
2479.2	-41.69	8.47	-33.22	-13	-20.22	V
		Middl	e Channel (836.6	MHz)		
1672.8	-37.12	5.11	-32.01	-13	-19.01	Н
2509.2	-41.77	8.54	-33.23	-13	-20.23	Н
1672.8	-35.18	5.11	-30.07	-13	-17.07	V
2509.2	-39.69	8.54	-31.15	-13	-18.15	V
		High	Channel (846.6N	MHz)		
1693.2	-34.79	5.25	-29.54	-13	-16.54	Н
2539.8	-40.15	8.57	-31.58	-13	-18.58	Н
1693.2	-37.73	5.25	-32.48	-13	-19.48	V
2539.8	-40.32	8.57	-31.75	-13	-18.75	V

For Band 4 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
		Low	Channel (1712.41	MHz)		
3424.8	-34.06	8.65	-25.41	-13	-12.41	Н
5137.2	-38.38	12.03	-26.35	-13	-13.35	Н
3424.8	-36.57	8.65	-27.92	-13	-14.92	V
5137.2	-40.39	12.03	-28.36	-13	-15.36	V
		Middle	e Channel (1732.4	4MHz)		
3464.8	-34.51	8.91	-25.6	-13	-12.6	Н
5197.2	-38.55	12.29	-26.26	-13	-13.26	Н
3464.8	-37.87	8.91	-28.96	-13	-15.96	V
5197.2	-41.42	12.29	-29.13	-13	-16.13	V
		High	Channel (1752.6)	MHz)		
3505.2	-36.94	9.11	-27.83	-13	-14.83	Н
5257.8	-39.17	12.56	-26.61	-13	-13.61	Н
3505.2	-37.14	9.11	-28.03	-13	-15.03	V
5257.8	-39.64	12.56	-27.08	-13	-14.08	Н





For Band 2 Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
		Low	Channel (1852.41	MHz)		
3704.8	-37.95	10.17	-27.78	-13	-14.78	Н
5557.2	-39.73	14.69	-25.04	-13	-12.04	Н
3704.8	-36.84	10.17	-26.67	-13	-13.67	V
5557.2	-39.88	14.69	-25.19	-13	-12.19	V
		Midd	le Channel (1880	MHz)		
3760.8	-35.31	10.26	-25.05	-13	-12.05	Н
5640.0	-38.5	14.78	-23.72	-13	-10.72	Н
3760.8	-35.65	10.26	-25.39	-13	-12.39	V
5640.0	-39.62	14.78	-24.84	-13	-11.84	V
		High	Channel (1907.6)	MHz)		
3815.2	-37.16	10.59	-26.57	-13	-13.57	Н
5722.8	-39.74	15.03	-24.71	-13	-11.71	Н
3815.2	-37.71	10.59	-27.12	-13	-14.12	V
5722.8	-39.45	15.03	-24.42	-13	-11.42	Н

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

Testing is carried out with frequency rang 9kHz to 20GHz, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so the data is not display.

Model: B125C

9. Frequency Stability

9.1 Standard Applicable

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Cellular Band

Frequency range (MHz)	Base, fixed	Mobile >3 watts	Mobile ≤3 watts
(IVITIZ)	(ppm)	(ppm)	(ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	N/A	N/A
929 to 960	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

According to §27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

9.2 Test Procedure

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

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

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

Temperature:	Supply Voltage	
20°C	DC 3.5-4.2V declared by manufacturer	
-30°C to +50°C	Normal	

9.3 Environmental Conditions

Temperature:	20°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar



9.4 Summary of Test Results/Plots

For Cellular Band GSM Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm					
Environment	Power Supplied	Frequency Measure	with Time Elapsed		
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)		
50	3.8	74	0.0885		
40	3.8	62	0.0741		
30	3.8	52	0.0622		
20	3.8	45	0.0538		
10	3.8	42	0.0502		
0	3.8	35	0.0418		
-10	3.8	38	0.0454		
-20	3.8	42	0.0502		
-30	3.8	48	0.0574		

For PCS Band GSM Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm					
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measur MCF (Hz)	e with Time Elapsed Error (ppm)		
50	3.8	58	0.0309		
40	3.8	50	0.0266		
30	3.8	42	0.0223		
20	3.8	37	0.0197		
10	3.8	31	0.0165		
0	3.8	25	0.0133		
-10	3.8	30	0.0160		
-20	3.8	35	0.0186		
-30	3.8	38	0.0202		



For Cellular Band GPRS Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm					
Environment	Power Supplied	Frequency Measure with Time Elapsed			
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)		
50	3.8	71	0.0849		
40	3.8	60	0.0717		
30	3.8	49	0.0586		
20	3.8	44	0.0526		
10	3.8	40	0.0478		
0	3.8	33	0.0394		
-10	3.8	41	0.0490		
-20	3.8	46	0.0550		
-30	3.8	54	0.0645		

For PCS Band GPRS Mode

Refe	rence Frequency(Middle C	Channel): 1880 MHz, Limit	: 2.5ppm	
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed MCF (Hz) Error (ppm)		
50	3.8	54	0.0287	
40	3.8	50	0.0266	
30	3.8	46	0.0245	
20	3.8	40	0.0213	
10	3.8	36	0.0191	
0	3.8	28	0.0149	
-10	3.8	34	0.0181	
-20	3.8	39	0.0207	
-30	3.8	44	0.0234	



For Cellular Band EDGE Mode

Reference Frequency(Middle Channel): 836.6MHz, Limit: 2.5ppm					
Environment	Power Supplied	Frequency Measure with Time Elapsed			
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)		
50	3.8	69	0.0825		
40	3.8	60	0.0717		
30	3.8	49	0.0586		
20	3.8	43	0.0514		
10	3.8	38	0.0454		
0	3.8	34	0.0406		
-10	3.8	41	0.0490		
-20	3.8	45	0.0538		
-30	3.8	51	0.0610		

For PCS Band EDGE Mode

or PCS Band EDGE Mode	<u> </u>		
Refe	erence Frequency(Middle (Channel): 1880 MHz, Limi	t: 2.5ppm
Environment	Power Supplied	Frequency Measu	re with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	57	0.0303
40	3.8	44	0.0234
30	3.8	39	0.0207
20	3.8	32	0.0170
10	3.8	24	0.0128
0	3.8	17	0.0090
-10	3.8	22	0.0117
-20	3.8	28	0.0149
-30	3.8	35	0.0186



For WCDMA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	69	0.0825
40	3.8	55	0.0657
30	3.8	52	0.0622
20	3.8	45	0.0538
10	3.8	40	0.0478
0	3.8	36	0.0430
-10	3.8	42	0.0502
-20	3.8	47	0.0562
-30	3.8	51	0.0610

For WCDMA Band 4 Mode

Refer	ence Frequency(Middle C	channel): 1732.4 MHz, Limit	t: 2.5ppm
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure	e with Time Elapsed Error (ppm)
50	3.8	71	0.0410
40	3.8	62	0.0358
30	3.8	52	0.0300
20	3.8	45	0.0260
10	3.8	41	0.0237
0	3.8	36	0.0208
-10	3.8	44	0.0254
-20	3.8	49	0.0283
-30	3.8	55	0.0317



For WCDMA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	56	0.0298
40	3.8	44	0.0234
30	3.8	40	0.0213
20	3.8	33	0.0176
10	3.8	28	0.0149
0	3.8	22	0.0117
-10	3.8	28	0.0149
-20	3.8	34	0.0181
-30	3.8	38	0.0202

For HSDPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed MCF (Hz) Error (ppm)		
50	3.8	65	0.0777	
40	3.8	51	0.0610	
30	3.8	45	0.0538	
20	3.8	38	0.0454	
10	3.8	32	0.0383	
0	3.8	27	0.0323	
-10	3.8	35	0.0418	
-20	3.8	40	0.0478	
-30	3.8	48	0.0574	



For HSDPA Band 4 Mode

Reference Frequency(Middle Channel): 1732.4 MHz, Limit: 2.5ppm			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	75	0.0433
40	3.8	64	0.0369
30	3.8	54	0.0312
20	3.8	47	0.0271
10	3.8	42	0.0242
0	3.8	37	0.0214
-10	3.8	44	0.0254
-20	3.8	50	0.0289
-30	3.8	56	0.0323

For HSDPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed MCF (Hz) Error (ppm)		
50	3.8	55	0.0293	
40	3.8	41	0.0218	
30	3.8	37	0.0197	
20	3.8	30	0.0160	
10	3.8	24	0.0128	
0	3.8	17	0.0090	
-10	3.8	22	0.0117	
-20	3.8	28	0.0149	
-30	3.8	35	0.0186	



For HSUPA Band 5 Mode

Reference Frequency(Middle Channel): 836.6 MHz, Limit: 2.5ppm			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	49	0.0586
40	3.8	44	0.0526
30	3.8	39	0.0466
20	3.8	34	0.0406
10	3.8	30	0.0359
0	3.8	25	0.0299
-10	3.8	29	0.0347
-20	3.8	35	0.0418
-30	3.8	40	0.0478

For HSUPA Band 4 Mode

Reference Frequency(Middle Channel): 1732.4 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed MCF (Hz) Error (ppm)		
50	3.8	61	0.0352	
40	3.8	52	0.0300	
30	3.8	41	0.0237	
20	3.8	34	0.0196	
10	3.8	27	0.0156	
0	3.8	22	0.0127	
-10	3.8	29	0.0167	
-20	3.8	33	0.0190	
-30	3.8	41	0.0237	



For HSUPA Band 2 Mode

Reference Frequency(Middle Channel): 1880 MHz, Limit: 2.5ppm			
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	MCF (Hz)	Error (ppm)
50	3.8	59	0.0314
40	3.8	44	0.0234
30	3.8	35	0.0186
20	3.8	31	0.0165
10	3.8	24	0.0128
0	3.8	19	0.0101
-10	3.8	26	0.0138
-20	3.8	30	0.0160
-30	3.8	35	0.0186



So, Frequency Stability Versus Input Voltage is:

Referer	nce Frequency(Middle Cha	annel): GSM 836.6MHz, Lin	nit: 2.5ppm
Environment	Device Consulted	Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (VDC)	Frequency (Hz)	Error (ppm)
	3.5	45	0.0538
20	3.8	45	0.0538
	4.2	42	0.0502
Referer	nce Frequency(Middle Cha	annel): GSM 1880 MHz, Lin	nit: 2.5ppm
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	38	0.0202
20	3.8	37	0.0197
	4.2	35	0.0186
Referen	ce Frequency(Middle Cha	nnel): GPRS 836.6MHz, Lii	mit: 2.5ppm
Environment	Dower Cupplied	Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (VDC)	Frequency (Hz)	Error (ppm)
	3.5	48	0.0574
20	3.8	44	0.0526
	4.2	47	0.0562
Referen	ce Frequency(Middle Cha	nnel): GPRS 1880 MHz, Lir	mit: 2.5ppm
Environment	Power Supplied	Frequency Measure with Time Elapsed	
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	37	0.0197
20	3.8	40	0.0213
	4.2	43	0.0229



Referen	ce Frequency(Middle Cha	nnel): EDGE 836.6MHz, Lir	mit: 2.5ppm
Environment	Davies Consulted	Frequency Measure with Time Elapsed	
Temperature (°C)	Power Supplied (VDC)	Frequency (Hz)	Error (ppm)
	3.5	46	0.0550
20	3.8	43	0.0514
	4.2	46	0.0550
Referen	ce Frequency(Middle Cha	nnel): EDGE 1880 MHz, Lir	mit: 2.5ppm
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	44	0.0234
20	3.8	32	0.0170
	4.2	36	0.0191
Reference	e Frequency(Middle Chan	nel): WCDMA 836.6MHz, L	imit: 2.5ppm
Environment	Power Supplied	Frequency Measure with Time Elapsed	
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	42	0.0502
20	3.8	45	0.0538
	4.2	37	0.0442
Reference	Frequency(Middle Chann	nel): WCDMA 1732.4 MHz,	Limit: 2.5ppm
Environment	Power Supplied	Frequency Measure with Time Elapsed	
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	43	0.0248
20	3.8	45	0.0260
	4.2	48	0.0277
Reference	e Frequency(Middle Chan	nel): WCDMA 1880 MHz, L	imit: 2.5ppm
Environment	Power Supplied	Frequency Measure	with Time Elapsed
Temperature (°C)	(VDC)	Frequency (Hz)	Error (ppm)
	3.5	32	0.0170
20	3.8	33	0.0176



Referen	ce Frequency(Middle Char	nnel): HSDPA 836.6MHz, Li	mit: 2.5ppm		
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed			
		Frequency (Hz)	Error (ppm)		
20	3.5	42	0.0502		
	3.8	38	0.0454		
	4.2	49	0.0586		
Reference Frequency(Middle Channel): HSDPA 1732.4MHz, Limit: 2.5ppm					
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed			
		Frequency (Hz)	Error (ppm)		
20	3.5	43	0.0248		
	3.8	47	0.0271		
	4.2	48	0.0277		
Reference Frequency(Middle Channel): HSDPA 1880 MHz, Limit: 2.5ppm					
Environment	Power Supplied (VDC)	Frequency Measure with Time Elapsed			
Temperature (°C)		Frequency (Hz)	Error (ppm)		
20	3.5	40	0.0213		
	3.8	30	0.0160		
	4.2	33	0.0176		
Referen	ce Frequency(Middle Char	nnel): HSUPA 836.6MHz, Li	mit: 2.5ppm		
Environment	Power Supplied (VDC)	Frequency Measure with Time Elapsed			
Temperature (°C)		Frequency (Hz)	Error (ppm)		
20	3.5	35	0.0418		
	3.8	34	0.0406		
	4.2	25	0.0299		
Referenc	e Frequency(Middle Chan	nel): HSUPA 1732.4 MHz, L	imit: 2.5ppm		
Environment	Power Supplied (VDC)	Frequency Measure with Time Elapsed			
Temperature (°C)		Frequency (Hz)	Error (ppm)		
20	3.5	32	0.0185		
	3.8	34	0.0196		
	I -				



Reference Frequency(Middle Channel): HSUPA 1880 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	Power Supplied (VDC)	Frequency Measure with Time Elapsed		
		Frequency (Hz)	Error (ppm)	
20	3.5	31	0.0165	
	3.8	31	0.0165	
	4.2	39	0.0207	

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