



Report No:
File reference No:

FCC 1902009-04
2019-03-01

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Digital Photo Frame

Model No: Familink AWS 3G+WiFi Photo Diary, M7045FLK

Trademark: FAMILINK

Test Standards: FCC 47 CFR Part 2, 22(H), 24(E)

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4, FCC Part 22H and 24E for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung
Manager

Dated: March 01, 2019

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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. Registration No.: 744189.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A-02
For 3m Chamber

1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China
Telephone: --
Fax: --

1.3 Description of EUT

Product:	Digital Photo Frame
Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.
Address:	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China
Brand Name:	N/A
Model Number:	Familink AWS 3G+WiFi Photo Diary
Additional Model Number:	M7045FLK
Tx Frequency	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8 MHz WCDMA Band V : 826.4 MHz ~ 846.6 MHz WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz WCDMA Band V : 871.4 MHz ~ 891.6 MHz WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	GSM850 : 32.80dBm GSM1900 : 29.61 dBm WCDMA Band V : 23.83 dBm WCDMA Band II : 23.88 dBm
Antenna Type	Integral Antenna

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Antenna Peak Gain	824 ~ 849 MHz : -0.8dBi 1850~1910 MHz : 1.5dBi
Type of Modulation	GSM / GPRS : GMSK EDGE : GMSK/8PSK WCDMA : QPSK HSDPA : QPSK / 16QAM HSUPA : QPSK
EMISSION DESIGNATOR	GSM : 248KGXW EGPRS : 250KG7W WCDMA: 4M20F9W
FCC ID:	RBD-FAMILINK

1.4 Submitted Sample: 2 Samples

1.5 Test Duration
2019-02-13 to 2019-02-28

1.6 Test Uncertainty
Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer
The sample tested by Terry Tang
Print Name: Terry Tang

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a)	Occupied Bandwidth	N/A	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1055 §22.355 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-
3.8	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.9	Part 15B	Main Conducted Emissions	See part 15.107 and 207	PASS	-

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range. Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GSM Link ■ EDGE 8 Link	■ GSM Link ■ EDGE 8 Link
GSM 1900	■ GSM Link ■ EDGE 8 Link	■ GSM Link ■ EDGE 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

Note: The maximum power levels are GSM mode for GSM link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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The conducted power tables are as follows:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	32.80	32.76	32.72	29.61	29.57	29.52
GPRS (GMSK, 1-Slot)	32.55	32.51	32.49	29.37	29.33	29.30
GPRS (GMSK, 2-Slot)	32.06	31.97	31.95	28.53	28.47	28.43
GPRS (GMSK, 3-Slot)	30.72	30.65	30.63	27.60	27.57	27.52
GPRS (GMSK, 4-Slot)	29.66	29.61	29.57	26.13	26.11	26.08
EGPRS(8PSK, 1-Slot)	27.92	27.86	27.84	25.72	25.67	25.66
EGPRS(8PSK, 2-Slot)	27.46	27.39	27.35	24.49	24.43	24.40
EGPRS(8PSK, 3-Slot)	26.12	26.08	26.02	23.87	23.82	23.80
EGPRS(8PSK, 4-Slot)	24.58	24.54	24.50	22.91	22.86	22.84
Remark: GPRS, CS4 coding scheme. EGPRS, MCS9 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link						

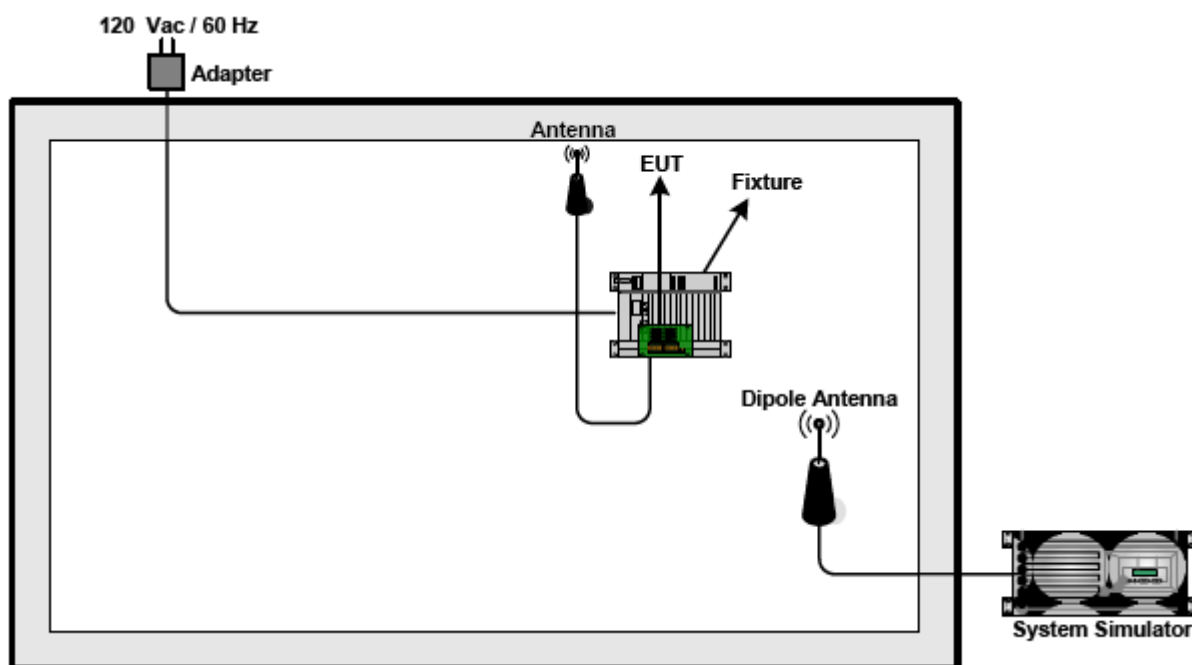
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4183	4233	9262	9400	9538
Frequency (MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6
RMC 12.2Kbps	23.72	23.77	23.83	23.82	23.83	23.88
HSDPA Subtest-1	23.56	23.69	23.66	23.69	23.72	23.76
HSDPA Subtest-2	23.40	23.46	23.49	23.61	23.63	23.69
HSDPA Subtest-3	23.25	23.22	23.30	23.49	23.55	23.58
HSDPA Subtest-4	23.33	23.39	23.41	23.41	23.47	23.51
HSUPA Subtest-1	23.31	23.36	23.40	23.50	23.53	23.61
HSUPA Subtest-2	23.22	23.29	23.28	23.42	23.45	23.49
HSUPA Subtest-3	23.11	23.19	23.25	23.37	23.43	23.48
HSUPA Subtest-4	23.16	23.20	23.29	23.32	23.37	23.43
HSUPA Subtest-5	23.23	23.29	23.34	23.30	23.38	23.45

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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

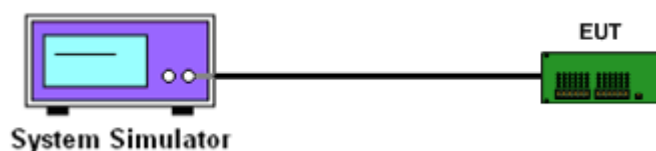
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band				
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM850 (GSM)	128 (Low)	824.2	32.80	1.905
	190 (Mid)	836.6	32.76	1.888
	251 (High)	848.8	32.72	1.871
GSM850 (EDGE 8)	128 (Low)	824.2	27.92	0.619
	190 (Mid)	836.4	27.86	0.611
	251 (High)	848.8	27.84	0.608
WCDMA Band V (RMC 12.2Kbps)	4132 (Low)	826.4	23.72	0.236
	4183 (Mid)	836.6	23.77	0.238
	4233 (High)	846.6	23.83	0.242

PCS Band				
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM1900 (GSM)	512 (Low)	1850.2	29.61	0.914
	661 (Mid)	1880.0	29.57	0.906
	810 (High)	1909.8	29.52	0.895
GSM1900 (EDGE 8)	512 (Low)	1850.2	25.72	0.373
	661 (Mid)	1880.0	25.67	0.369
	810 (High)	1909.8	25.66	0.368
WCDMA Band II (RMC 12.2Kbps)	9262 (Low)	1852.4	23.82	0.241
	9400 (Mid)	1880.0	23.83	0.242
	9538 (High)	1907.6	23.88	0.244

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3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

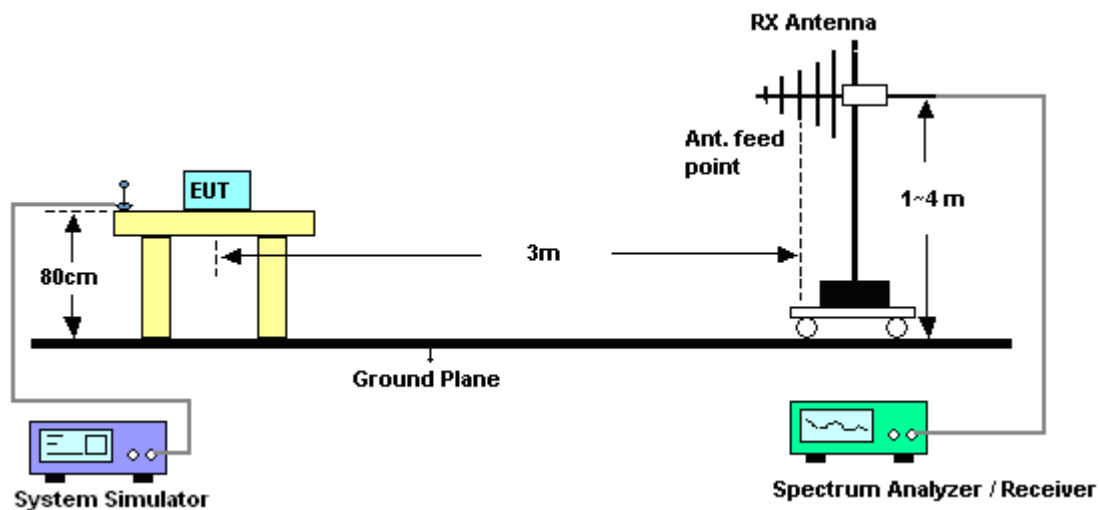
3.2.3 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$
 P_s (dBm) : Input power to substitution antenna.
 G_s (dBi or dBd) : Substitution antenna Gain.
 $E_t = R_t + AF$
 $E_s = R_s + AF$
 AF (dB/m) : Receive antenna factor
 R_t : The highest received signal in spectrum analyzer for EUT.
 R_s : The highest received signal in spectrum analyzer for substitution antenna.

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3.2.4 Test Setup



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3.2.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP					
Frequency (MHz)	ERP (dBm)		ERP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
824.20	28.69	27.91	0.740	0.618	Pass
836.60	28.56	27.85	0.718	0.610	Pass
848.80	28.46	27.73	0.701	0.593	Pass

GSM850 (EDGE8) Radiated Power ERP					
Frequency (MHz)	ERP (dBm)		ERP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
824.20	23.48	22.31	0.223	0.170	Pass
836.60	23.41	22.27	0.219	0.169	Pass
848.80	23.35	22.22	0.216	0.167	Pass

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP					
Frequency (MHz)	ERP (dBm)		ERP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
826.40	19.09	17.85	0.0811	0.0610	Pass
836.60	19.16	17.90	0.0824	0.0617	Pass
846.60	19.21	17.95	0.0834	0.0624	Pass

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3.2.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP					
Frequency (MHz)	EIRP (dBm)		EIRP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
1850.20	26.51	25.62	0.448	0.365	Pass
1880.00	26.43	25.55	0.440	0.359	Pass
1909.80	26.38	25.50	0.435	0.355	Pass

GSM1900 (EDGE class 8) Radiated Power EIRP					
Frequency (MHz)	EIRP (dBm)		EIRP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
1850.20	22.16	20.62	0.164	0.115	Pass
1880.00	22.10	20.67	0.162	0.117	Pass
1909.80	22.03	20.75	0.160	0.119	Pass

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP					
Frequency (MHz)	EIRP (dBm)		EIRP (W)		Result
	Polarization		Polarization		
	H	V	H	V	
1852.40	19.25	18.11	0.0841	0.0647	Pass
1880.00	19.33	18.19	0.0857	0.0659	Pass
1907.60	19.40	18.26	0.0871	0.0670	Pass

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3.3 Occupied Bandwidth Measurement

3.3.1 Description of Occupied Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

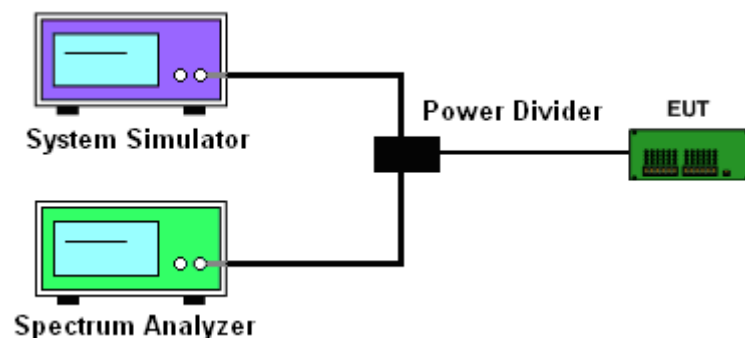
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 10*RBW, Peak detector, trace maximum hold.
4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

3.3.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128 (Low)	190 (Mid)	251 (High)	128 (Low)	190 (Mid)	251 (High)
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
99% OBW (kHz)	243.28	240.88	244.91	244.39	245.69	244.20
26dB BW (kHz)	315.58	313.99	323.94	317.51	318.27	308.74

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	247.76	239.64	243.43	244.08	250.02	242.91
26dB BW (kHz)	318.60	316.01	316.50	315.91	323.80	315.45

Cellular Band			
Modes	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.18	4.17	4.17
26dB BW (MHz)	4.66	4.66	4.66

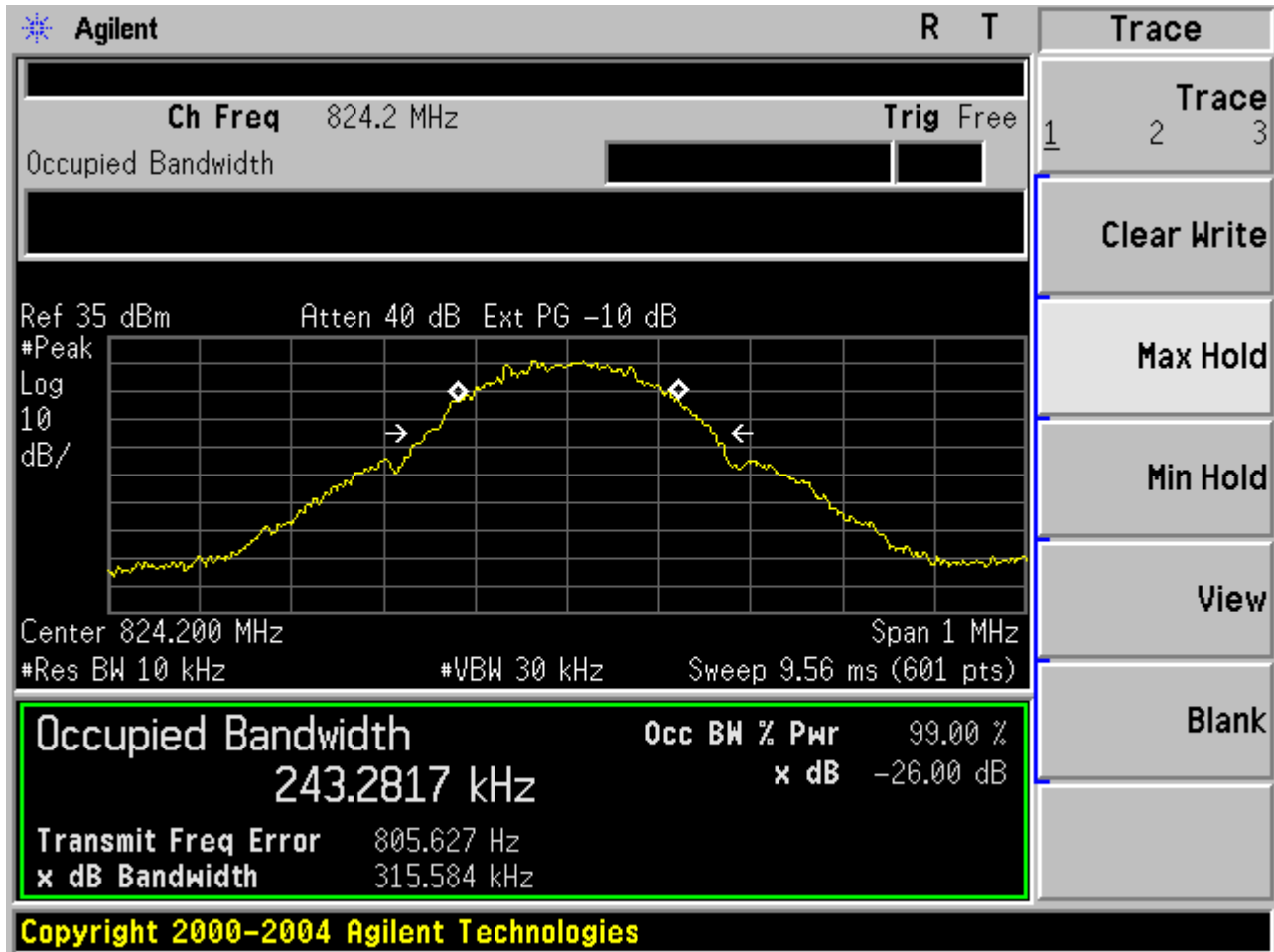
PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.20	4.19	4.16
26dB BW (MHz)	4.86	4.72	4.69

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3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

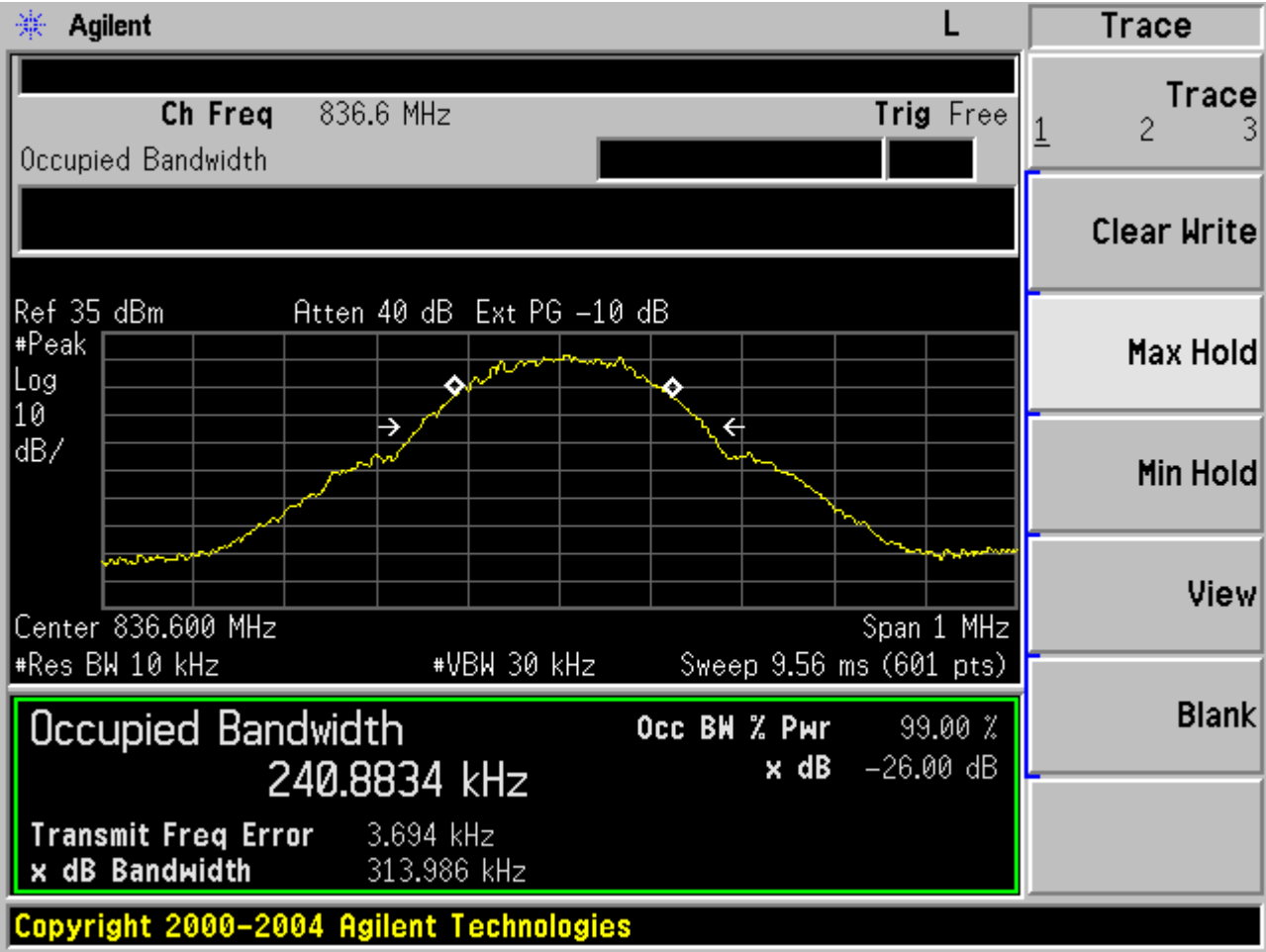
GSM 850MHz Channel = 128



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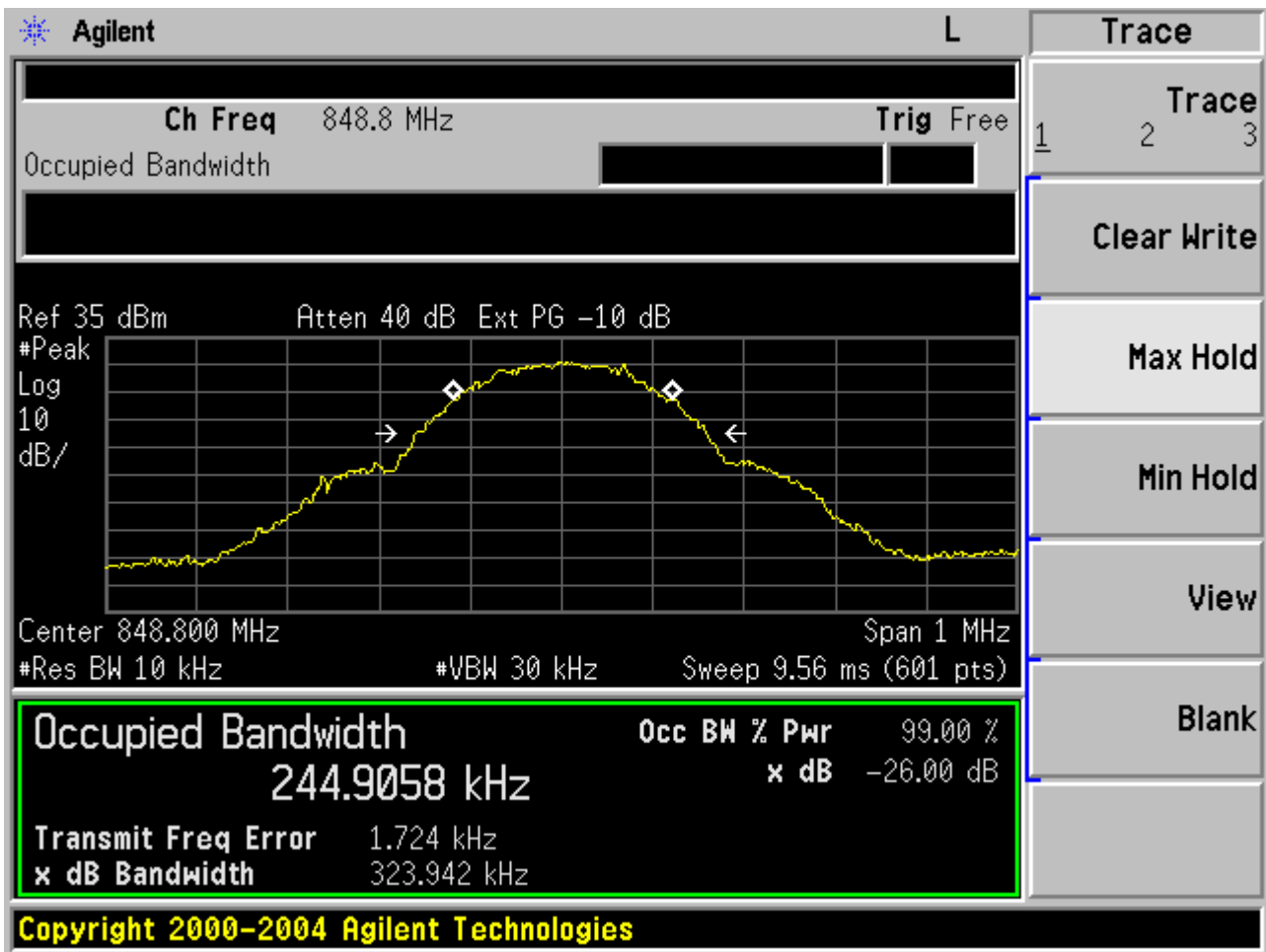
GSM 850MHz Channel = 190



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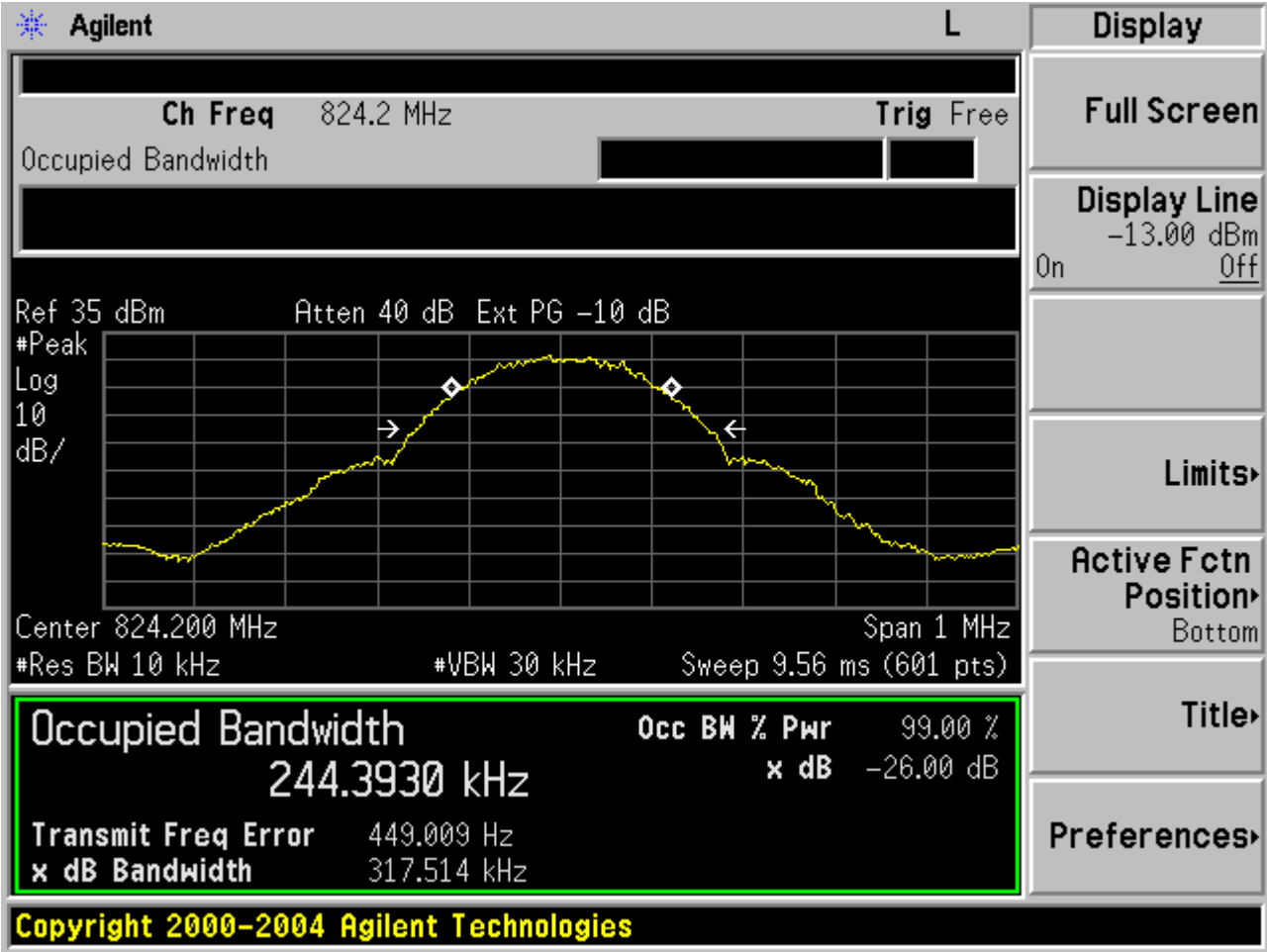
GSM 850MHz Channel = 251



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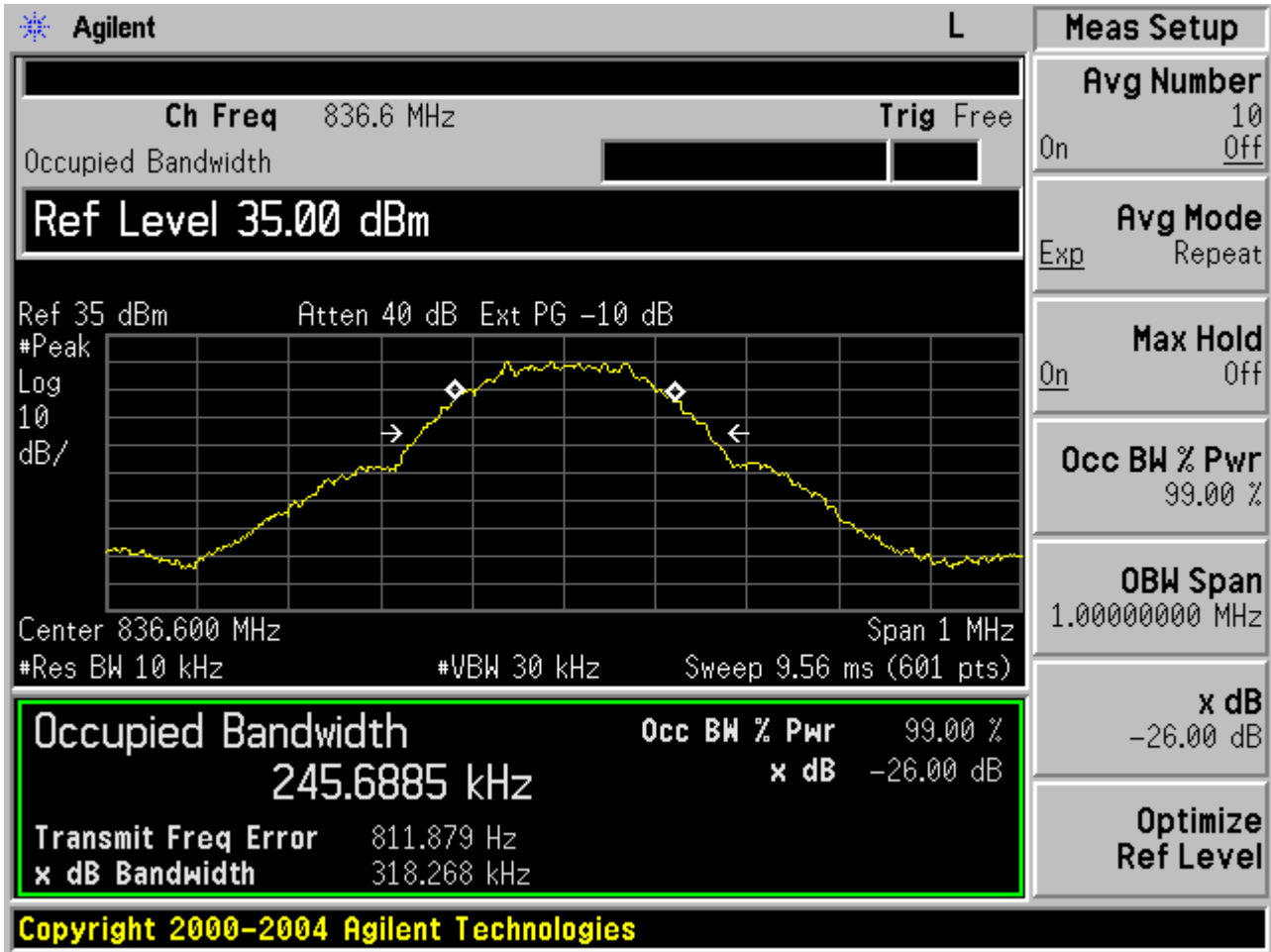
GSM850 EDGE Class8 Channel = 128



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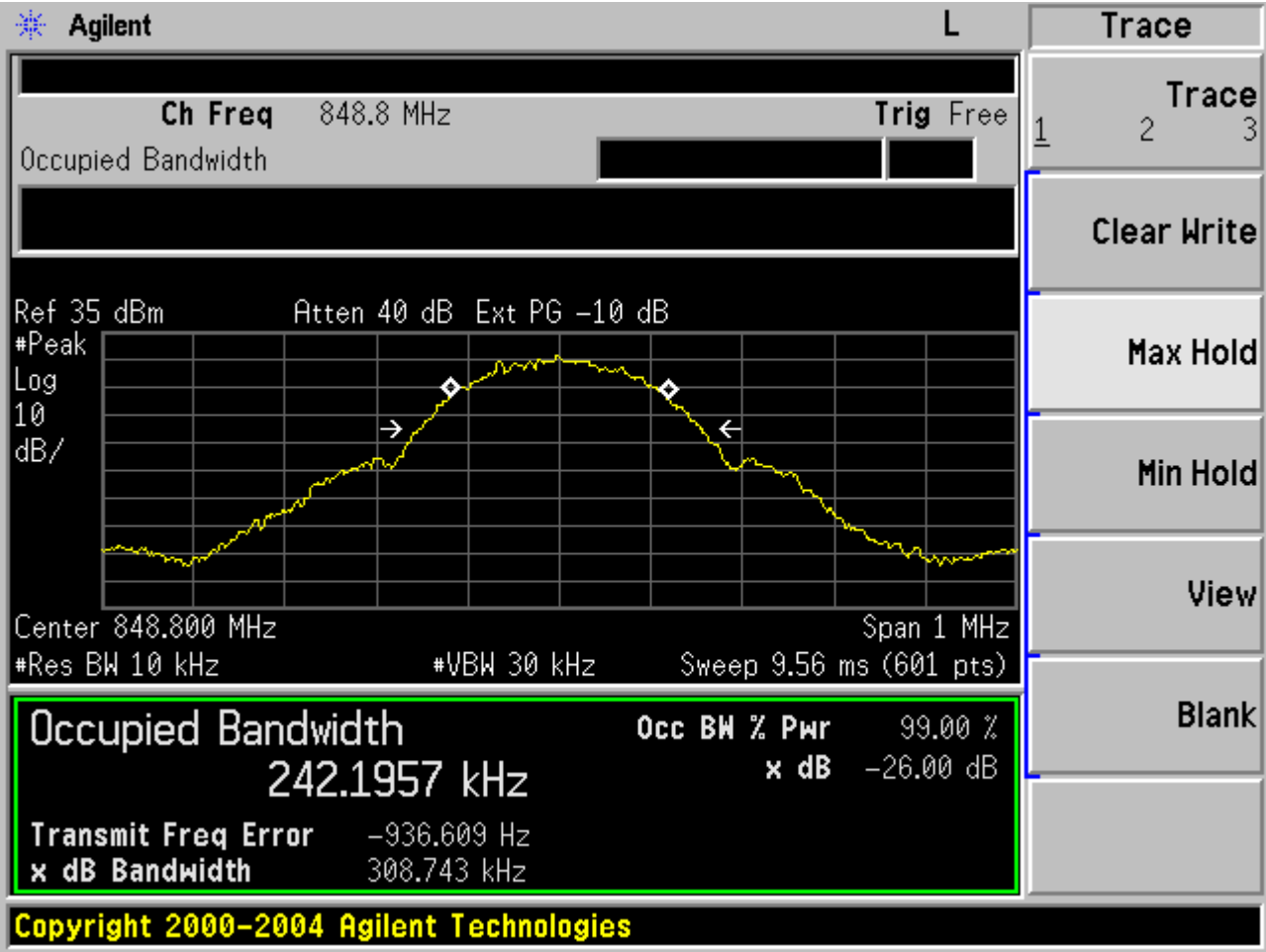
GSM850 EDGE Class8 EDGE Channel = 190



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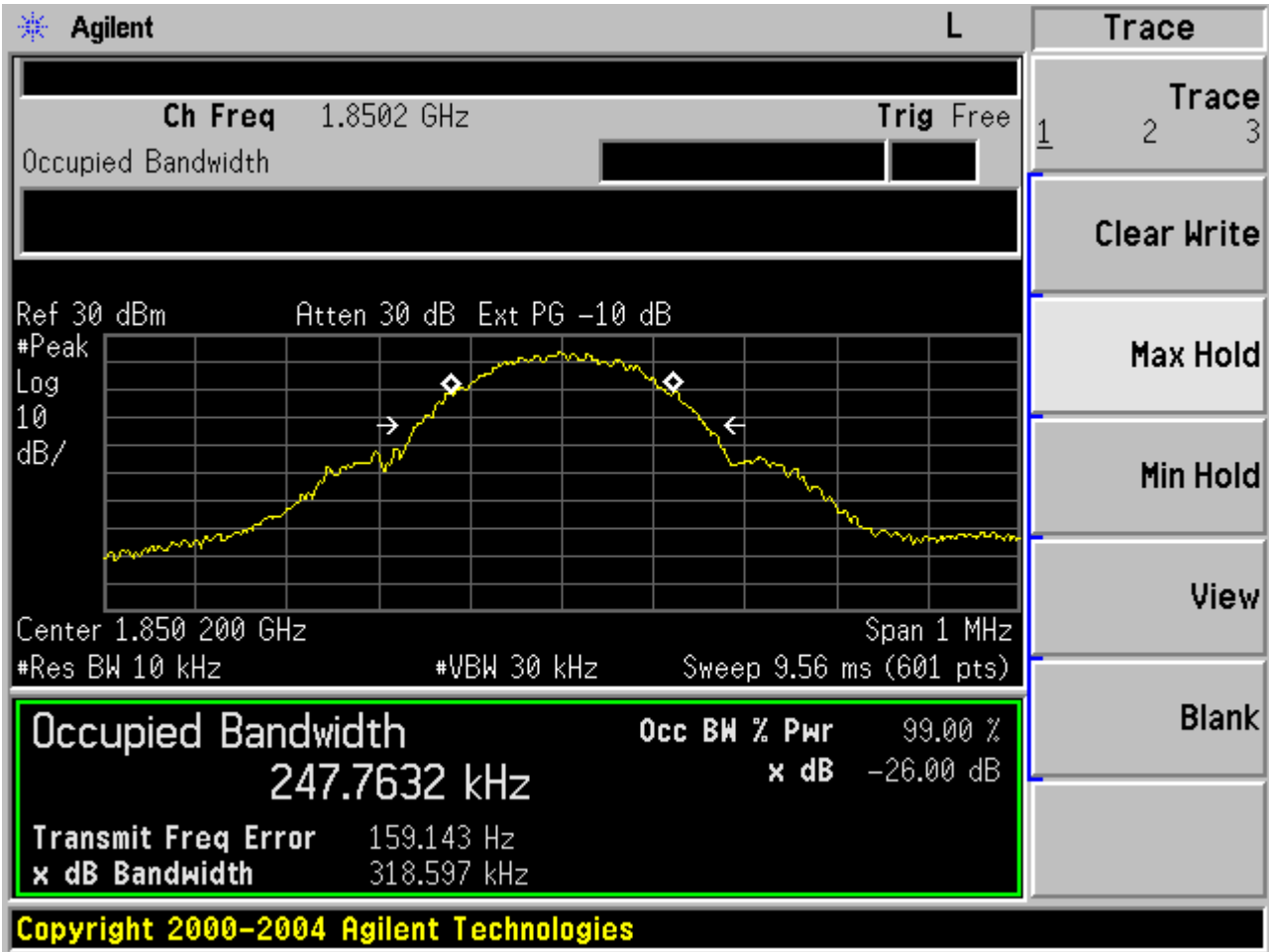
GSM850 EDGE Class8 EDGE Channel = 251



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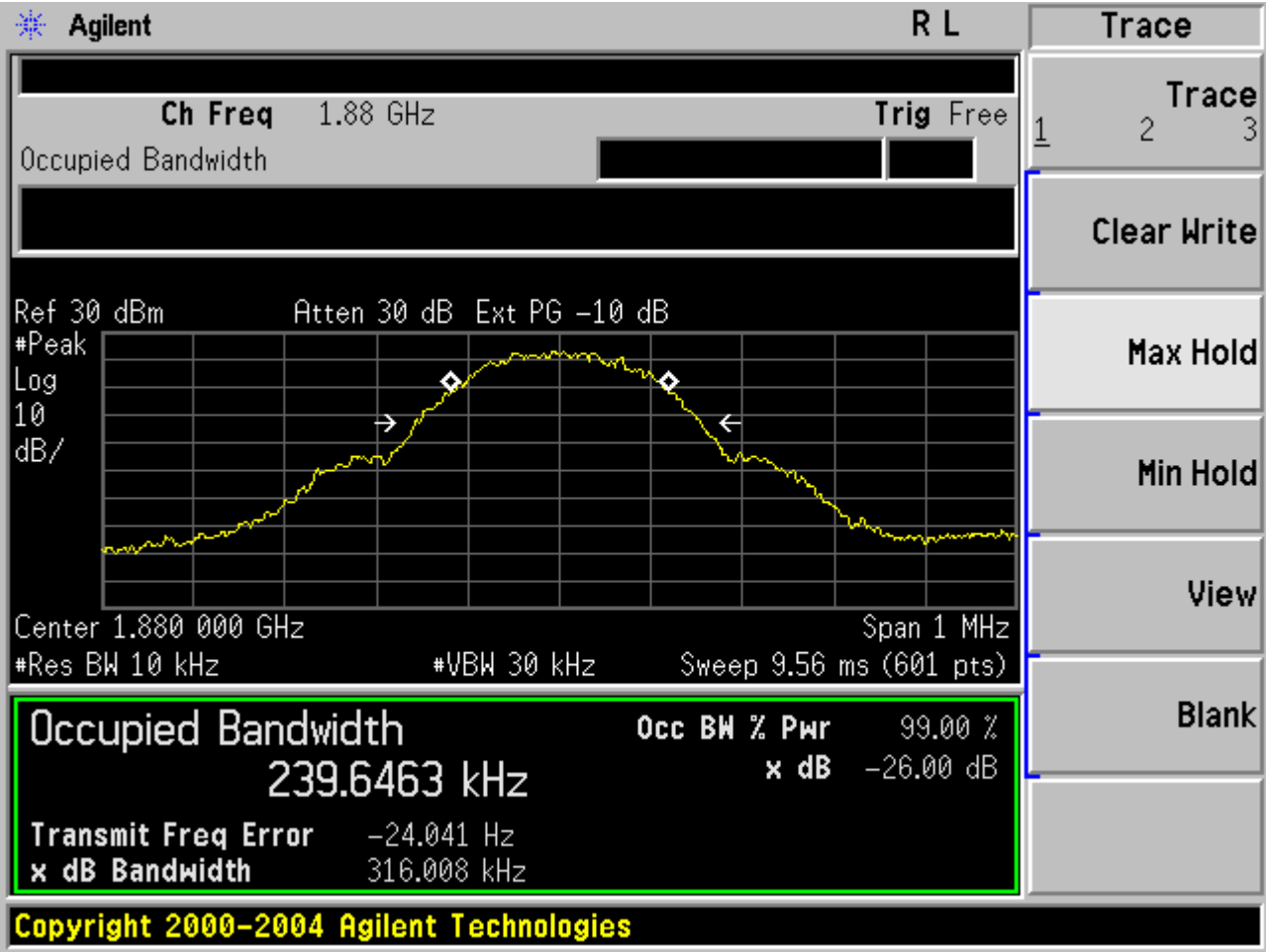
GSM 1900MHz Channel = 512



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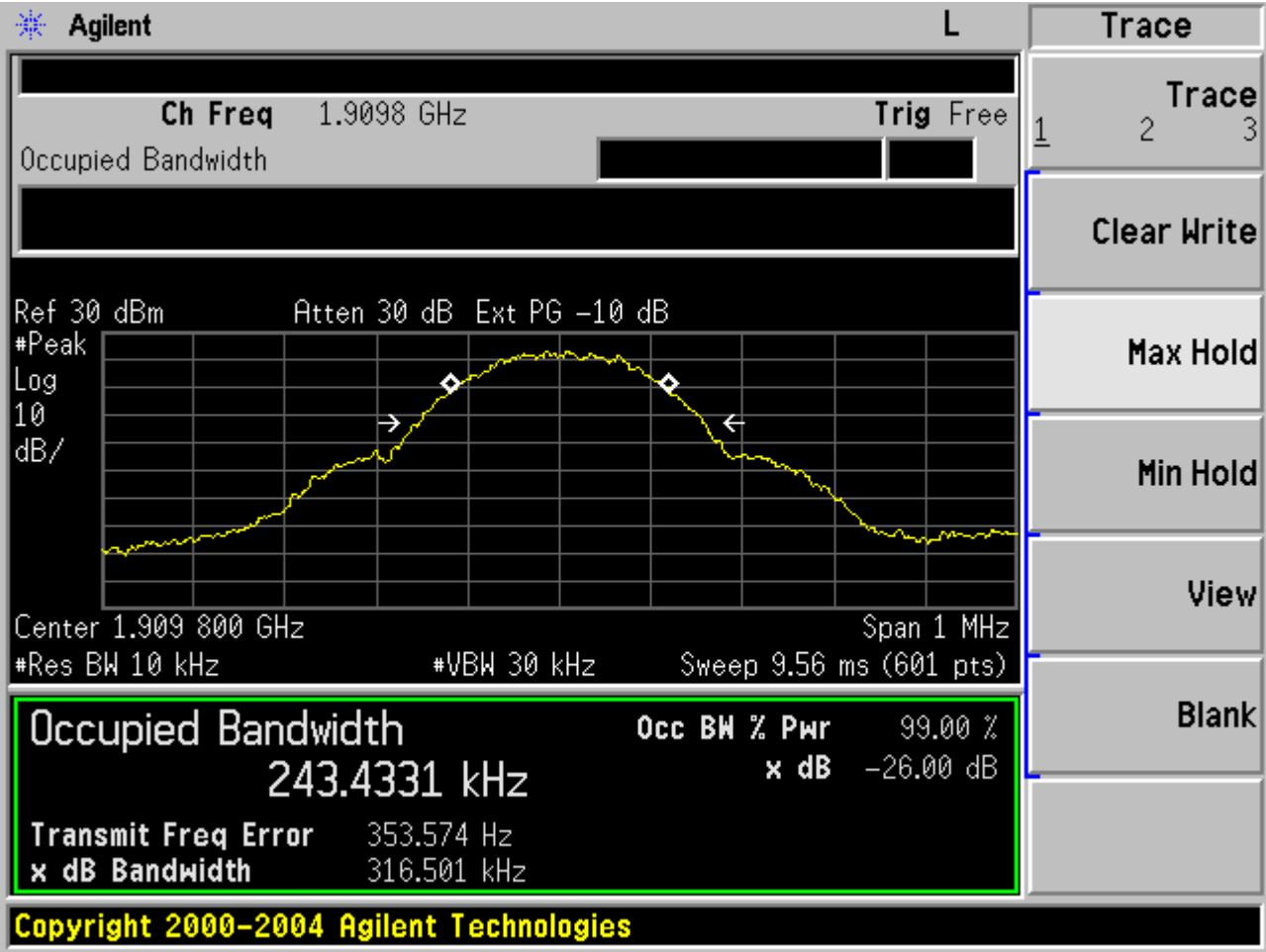
GSM 1900MHz Channel = 661



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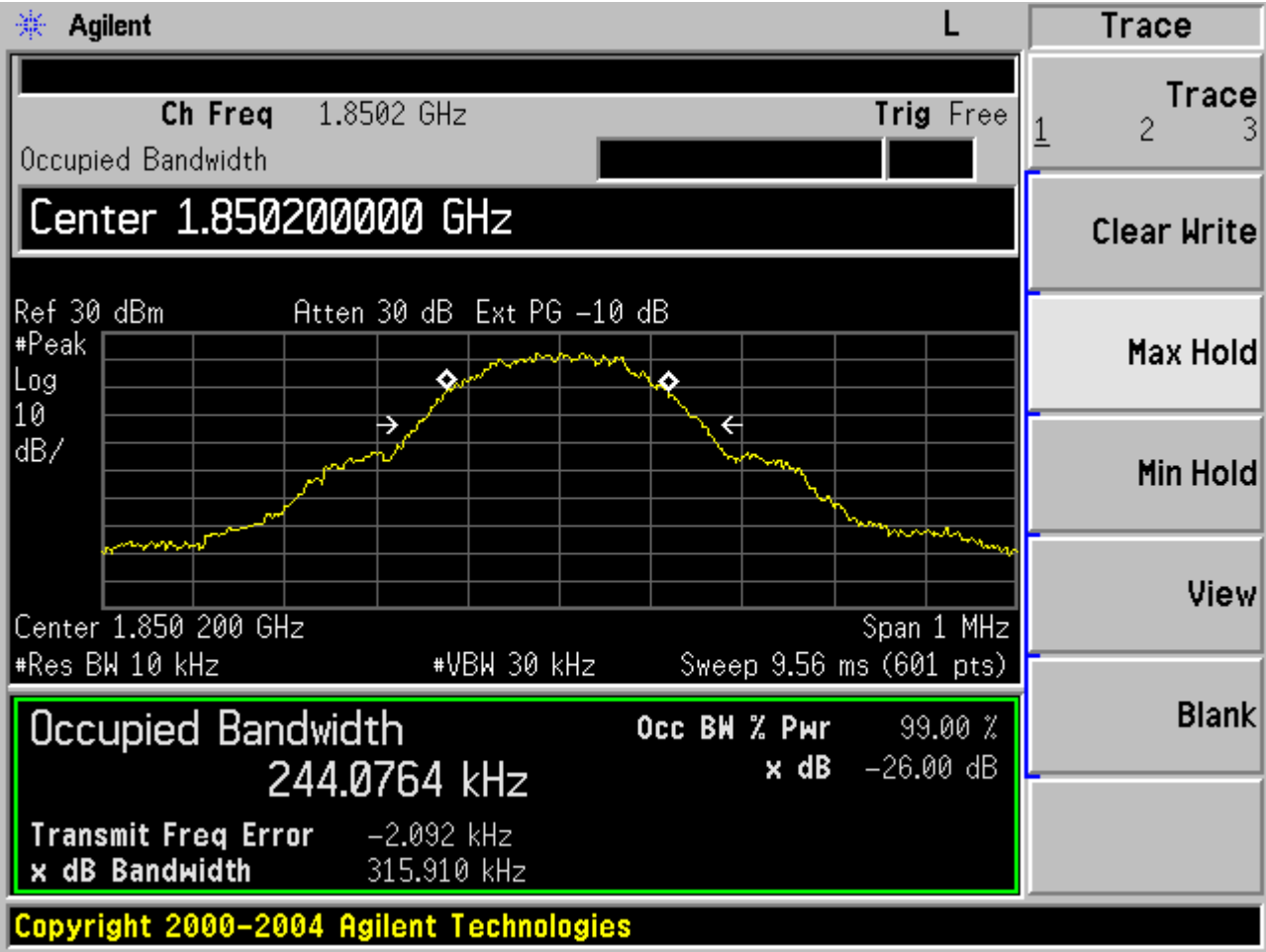
GSM 1900MHz Channel = 810



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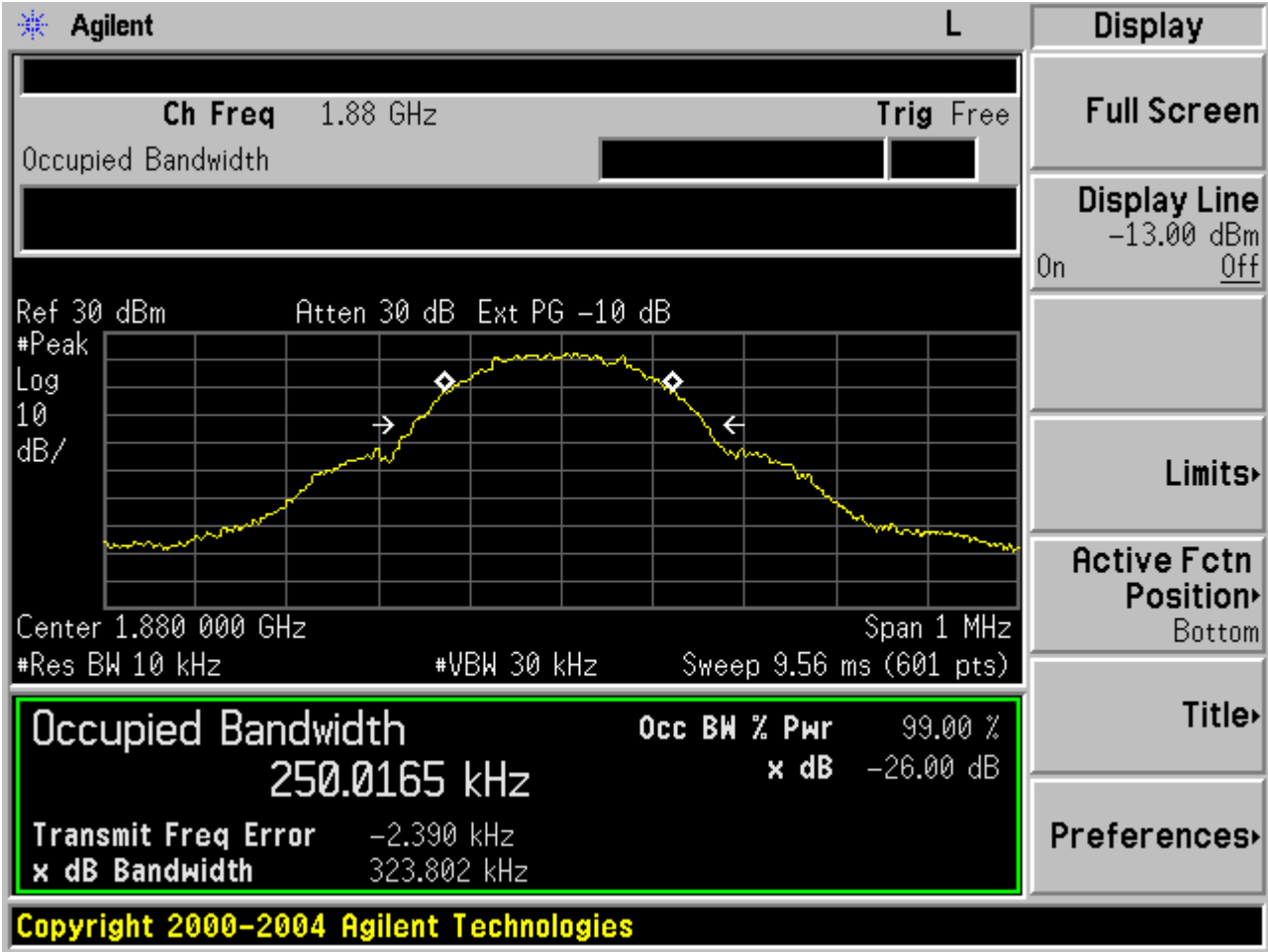
GSM1900 EDGE Class8 Channel =512



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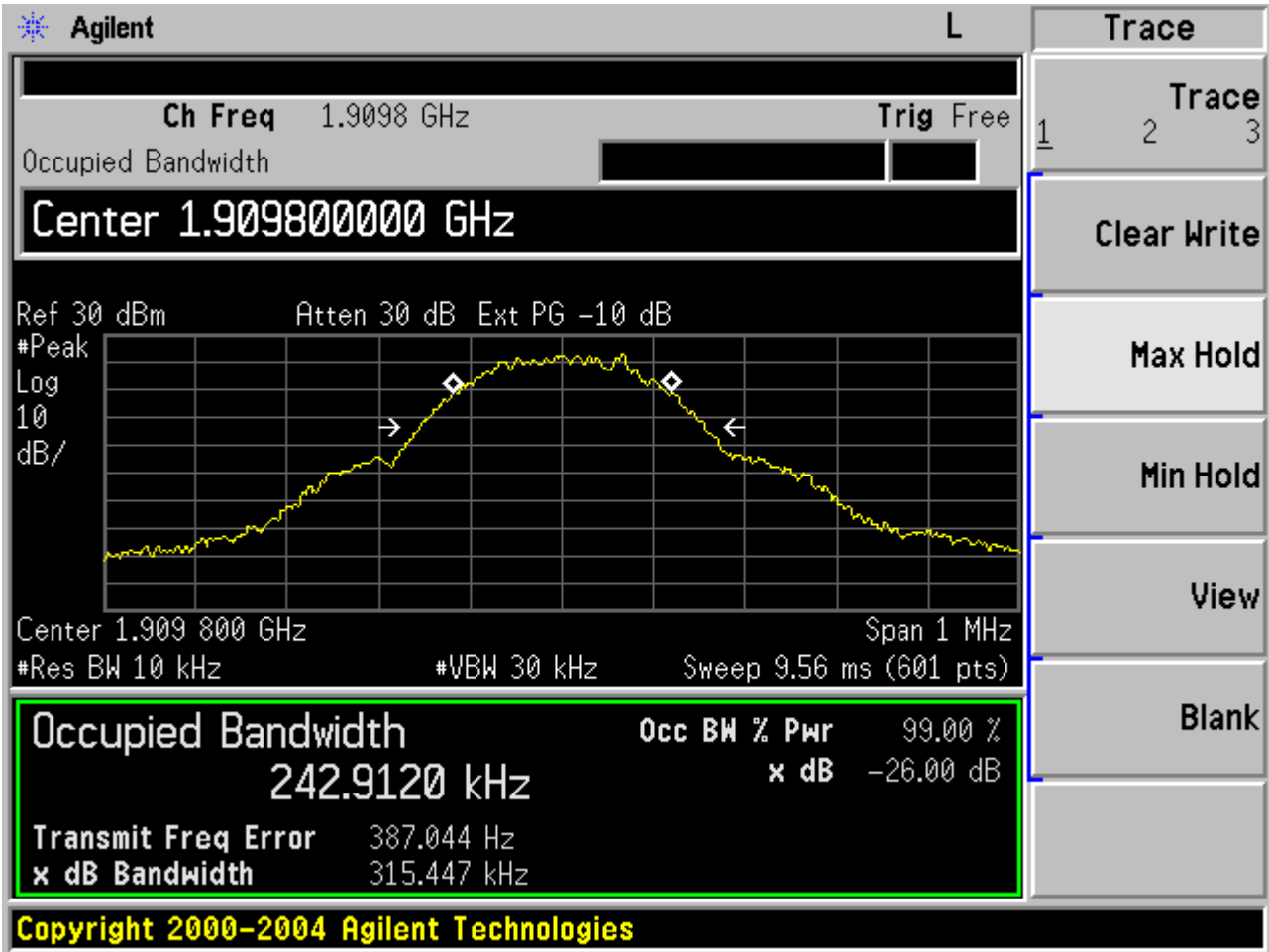
GSM1900 EDGE Class8 Channel =661



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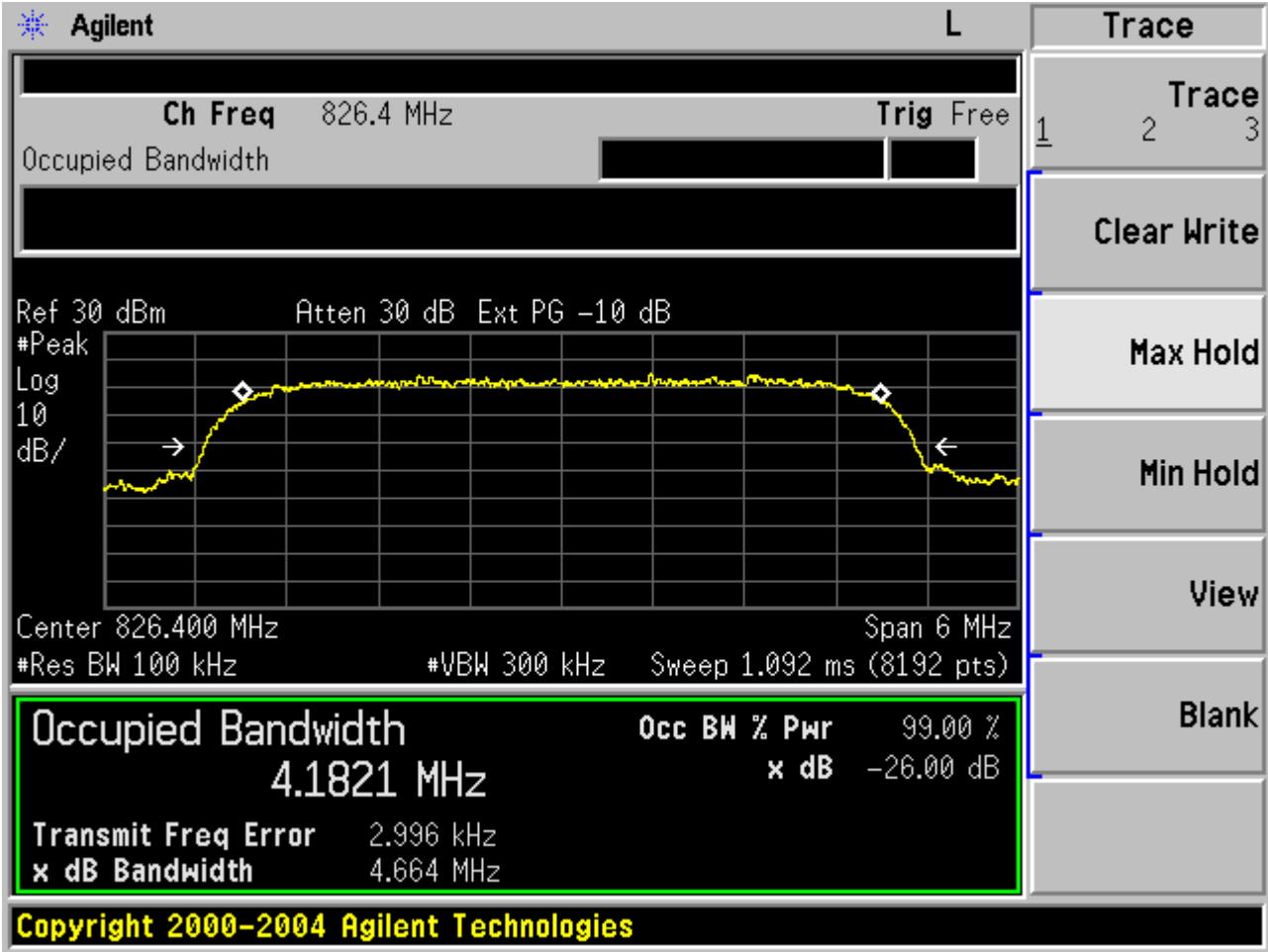
GSM1900 EDGE Class8 Channel =810



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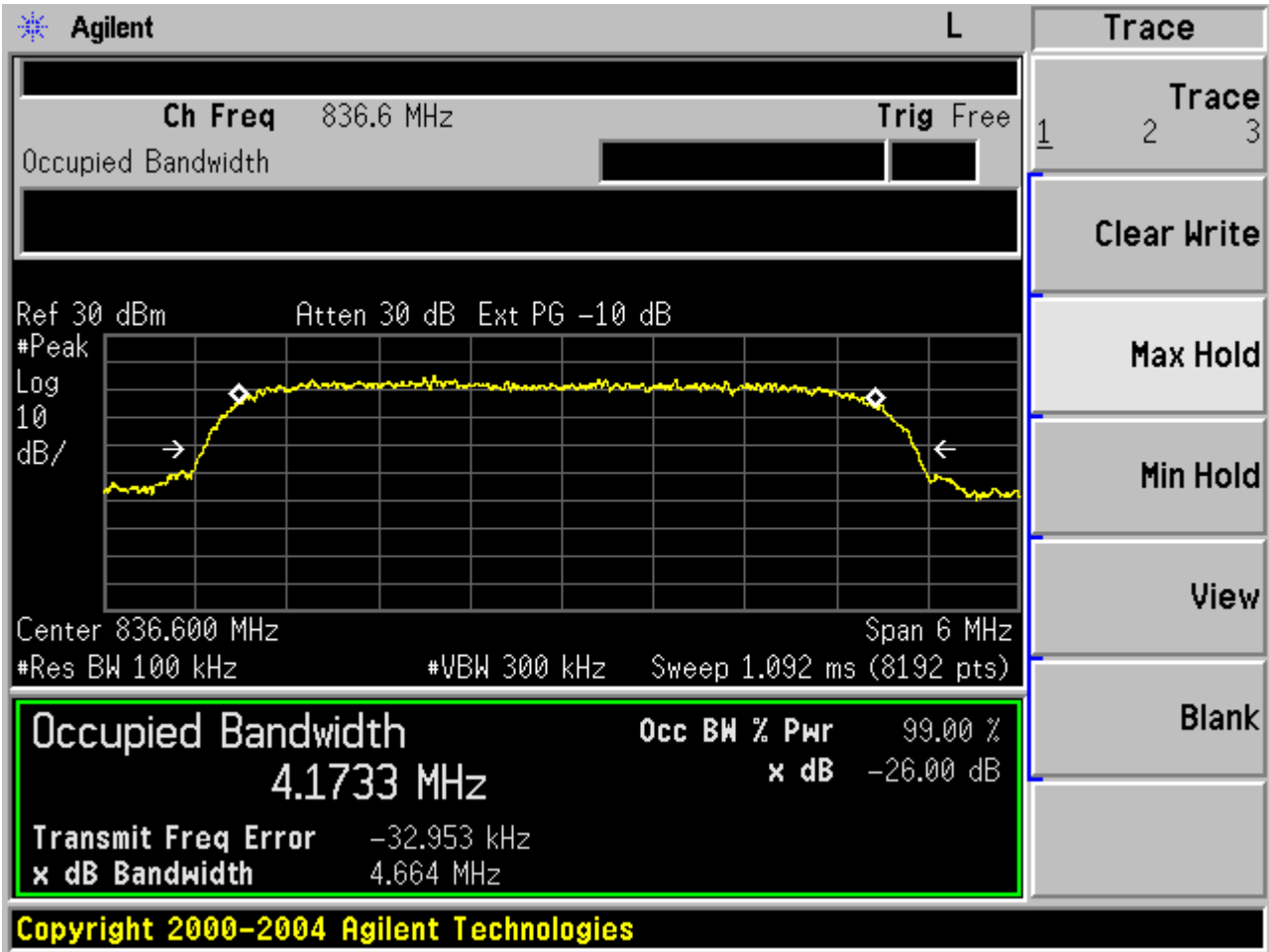
WCDMA 850MHz Channel = 4132



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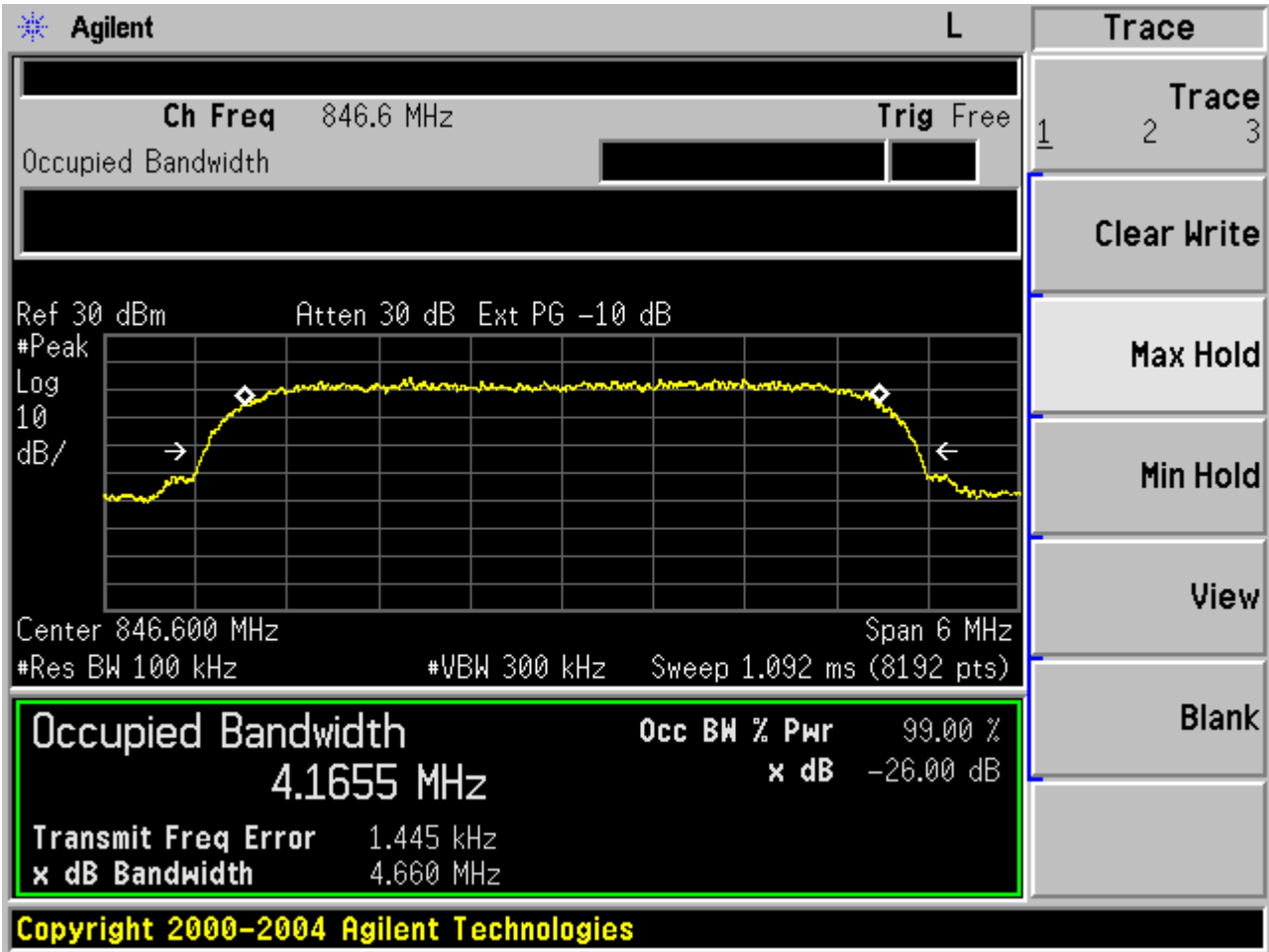
WCDMA 850MHz Channel = 4182



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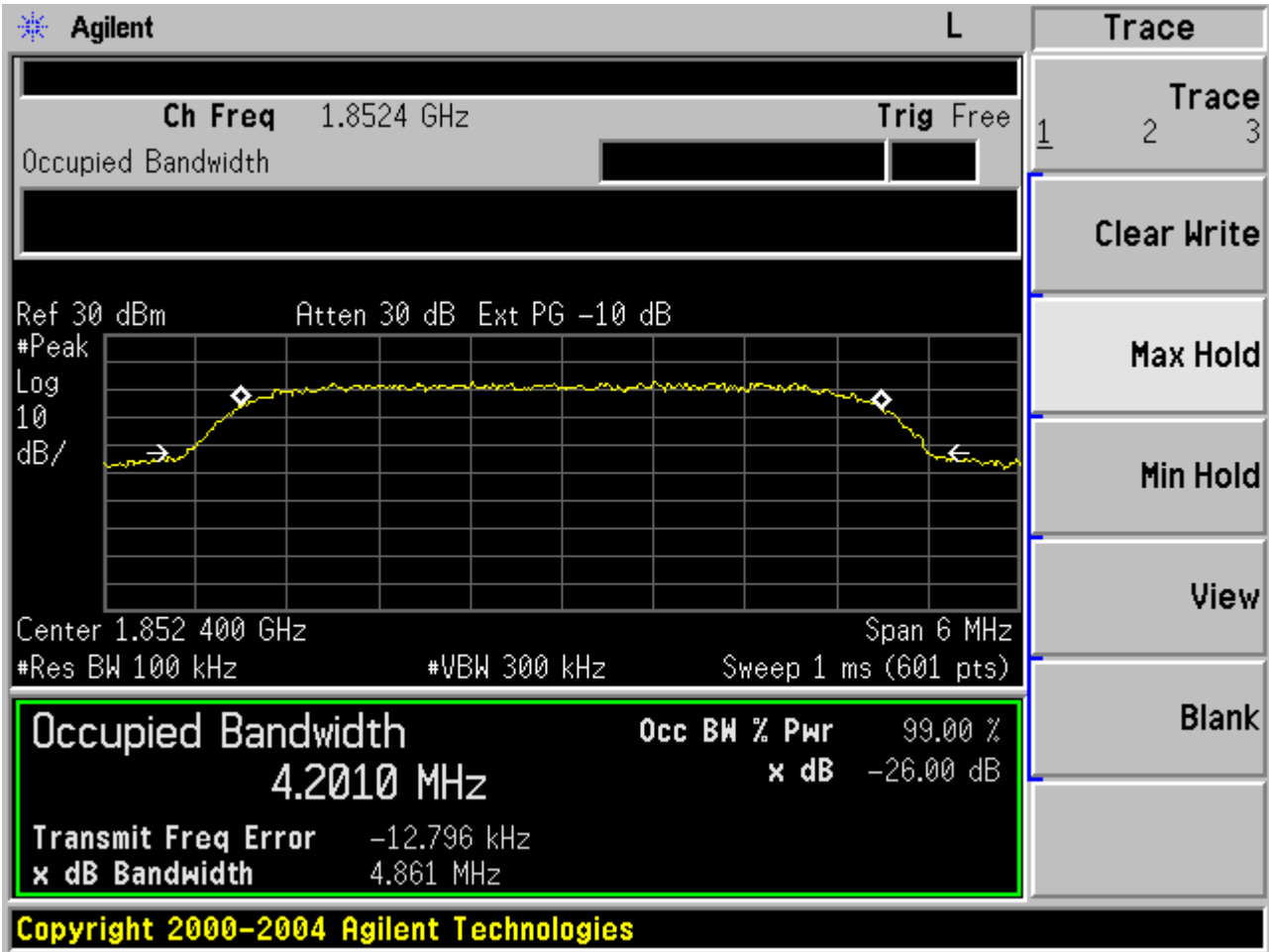
WCDMA 850MHz Channel = 4233



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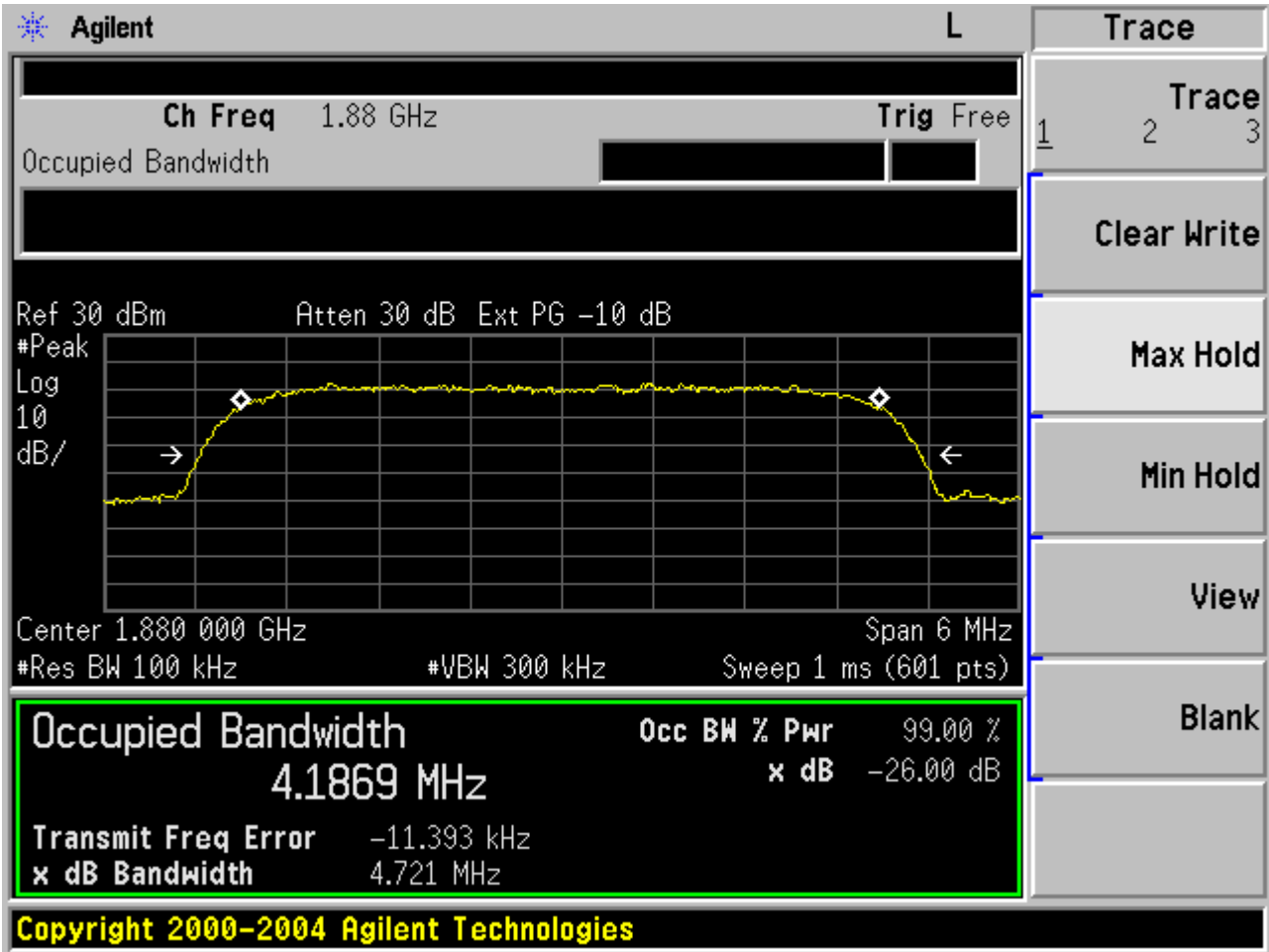
WCDMA 1900MHz Channel = 9262



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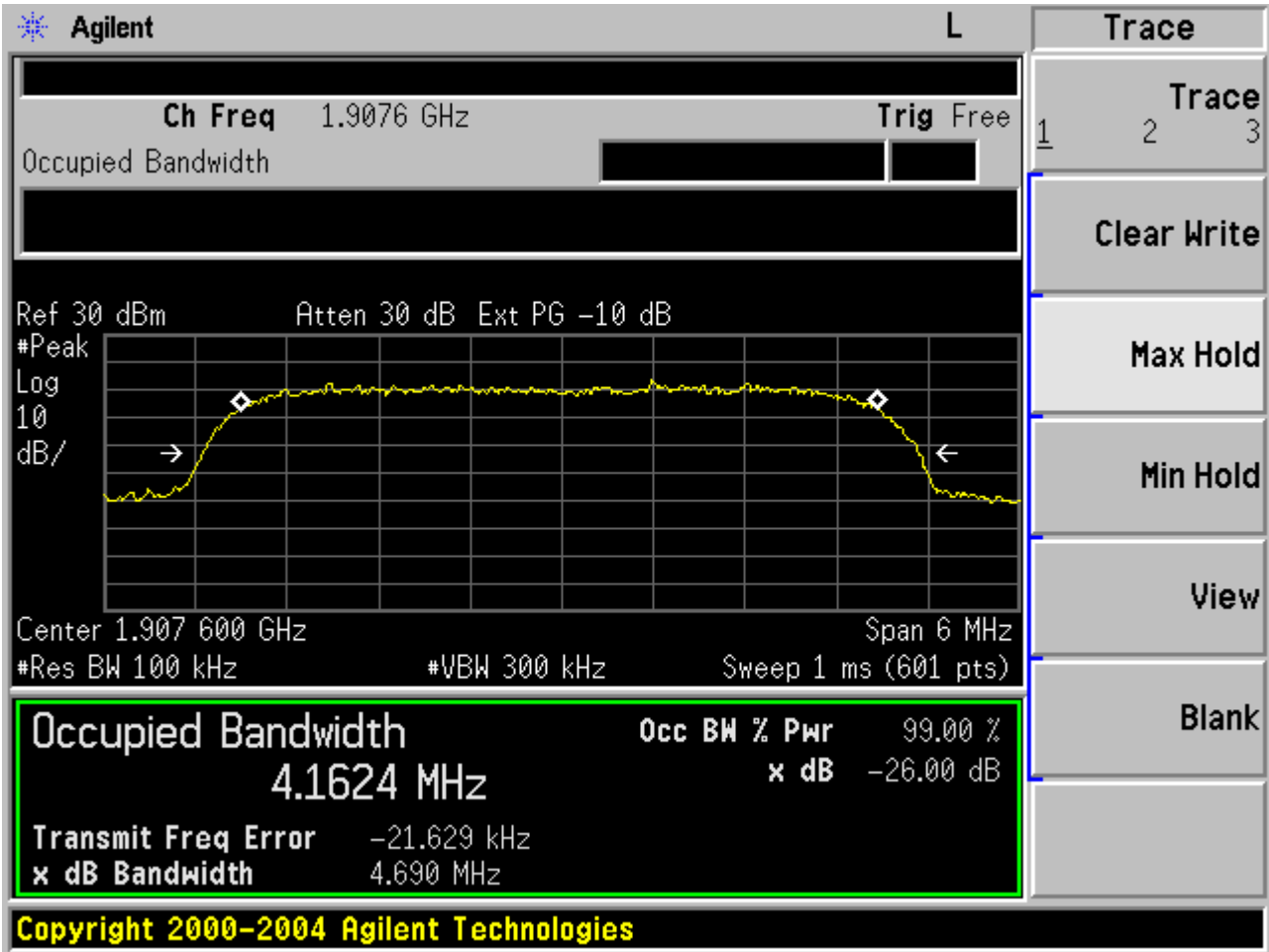
WCDMA 1900MHz Channel = 9400



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WCDMA 1900MHz Channel = 9538



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3.4 Band Edge Measurement

3.4.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

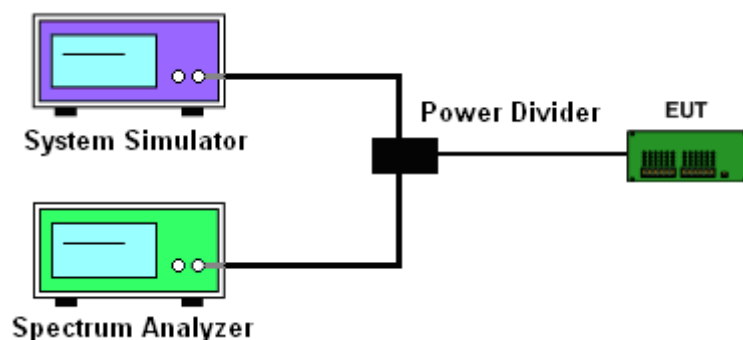
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log (P)] \text{ (dB)}$
 $= [30 + 10 \log (P)] \text{ (dBm)} - [43 + 10 \log (P)] \text{ (dB)}$
 $= -13 \text{ dBm}.$

3.4.4 Test Setup



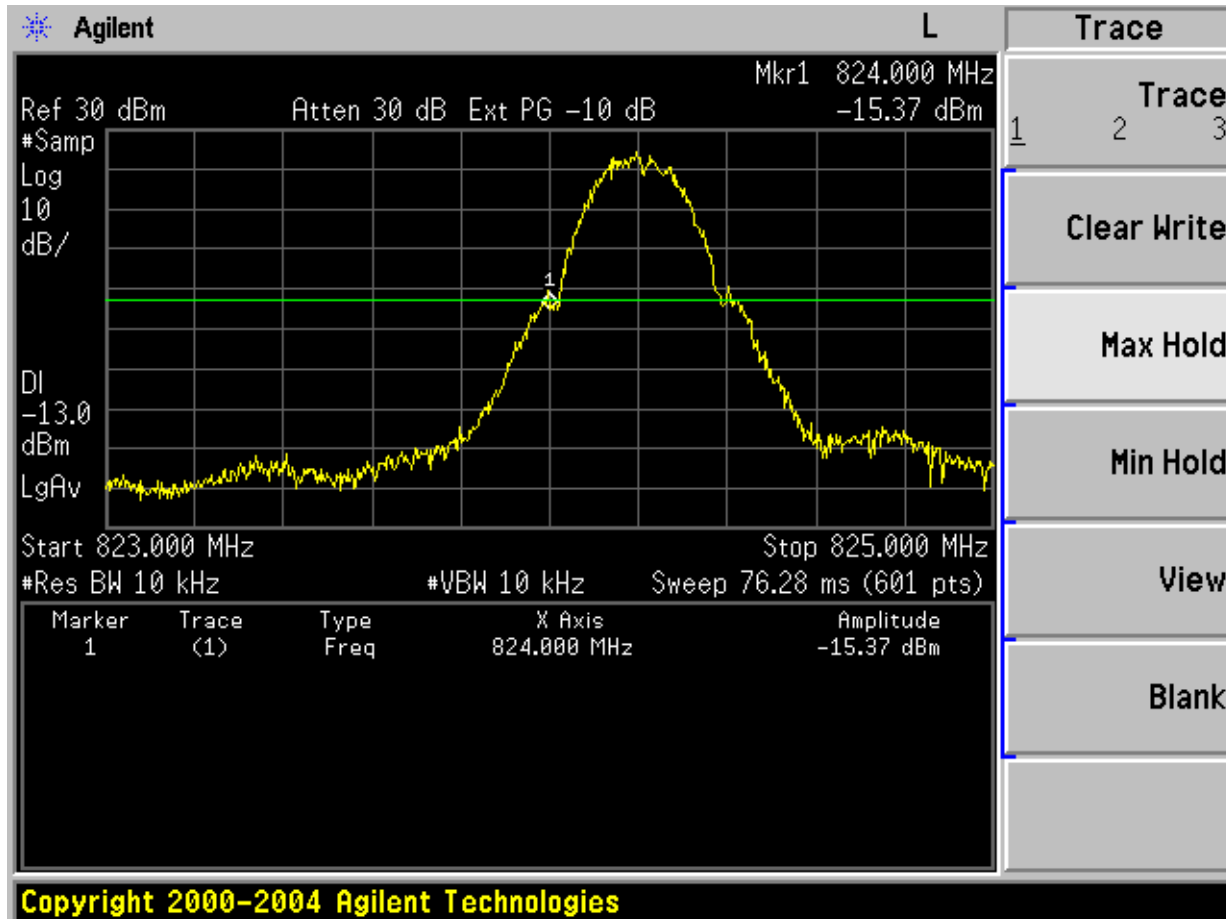
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3.4.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 128



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Agilent

Ref 30 dBm Atten 30 dB Ext PG -10 dB Mkr1 849.000 MHz -15.92 dBm

#Samp Log 10 dB/

DI -13.0 dBm LgAv

Start 847.500 MHz Stop 850.000 MHz

#Res BW 10 kHz #VBW 10 kHz Sweep 95.36 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	849.000 MHz	-15.92 dBm

Trace 1 2 3

Clear Write

Max Hold

Min Hold

View

Blank

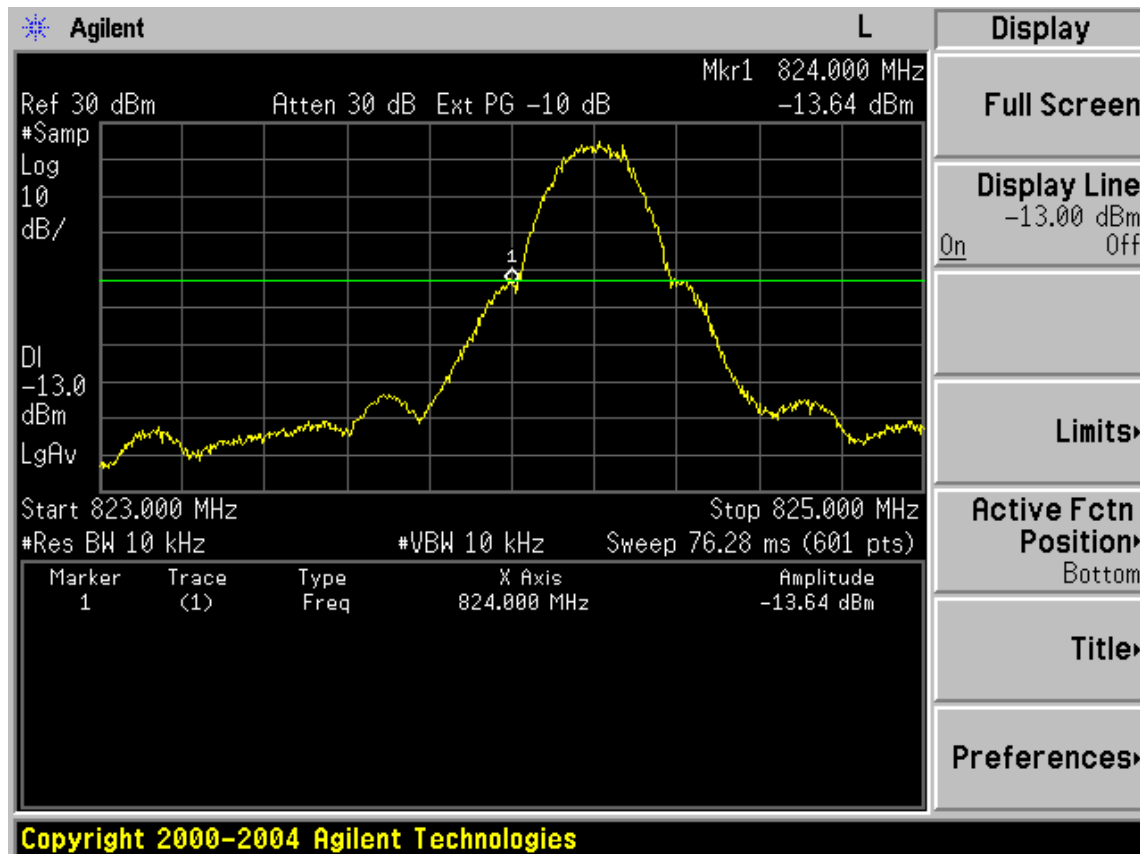
Copyright 2000-2004 Agilent Technologies

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Band :	GSM850	Power Stage :	High
Test Mode :	EDGE Class 8 Link		

Lower Band Edge Plot on Channel 128



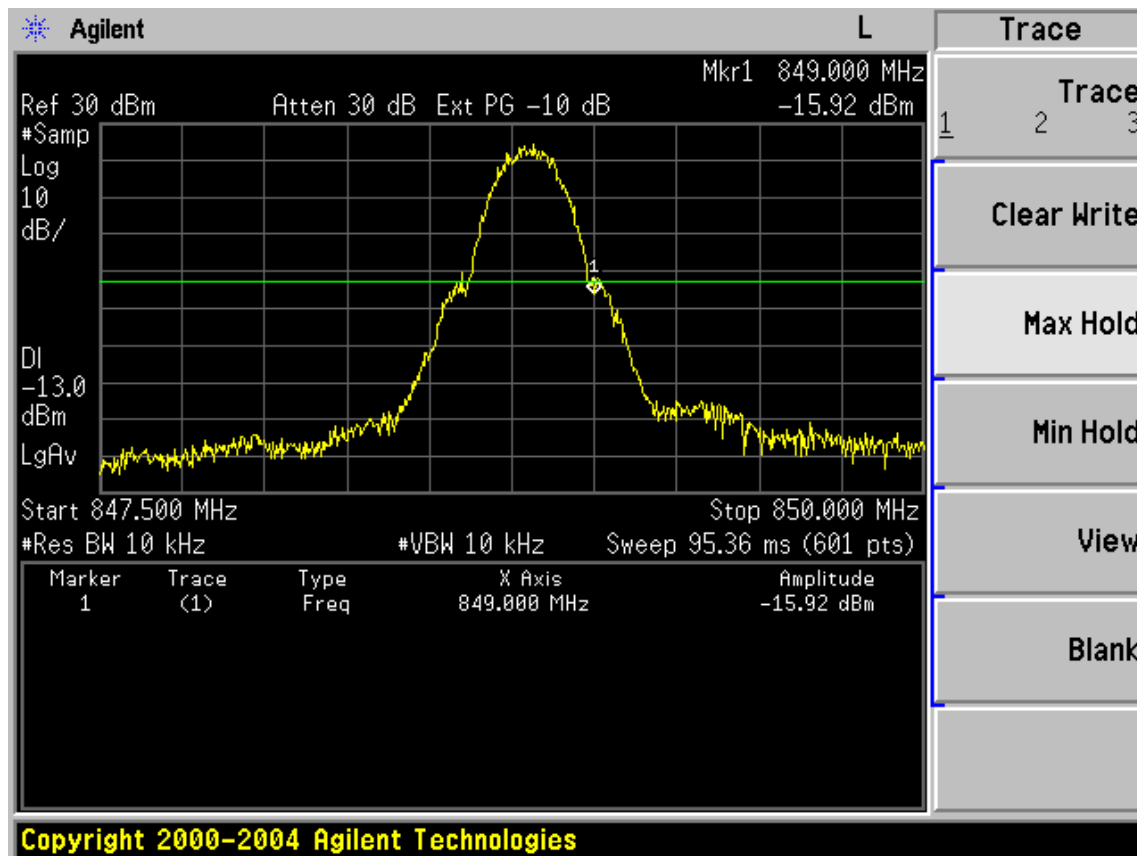
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Higher Band Edge Plot on Channel 251



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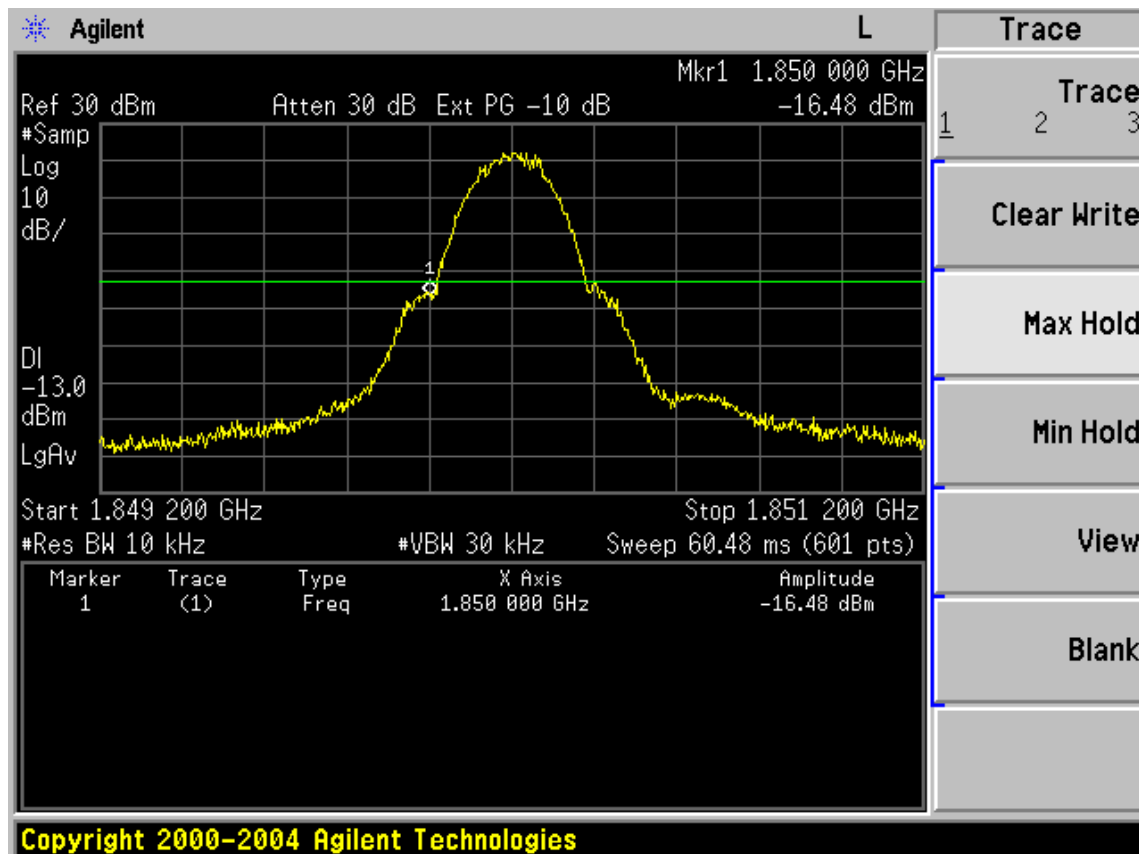
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Band :	GSM1900	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 512



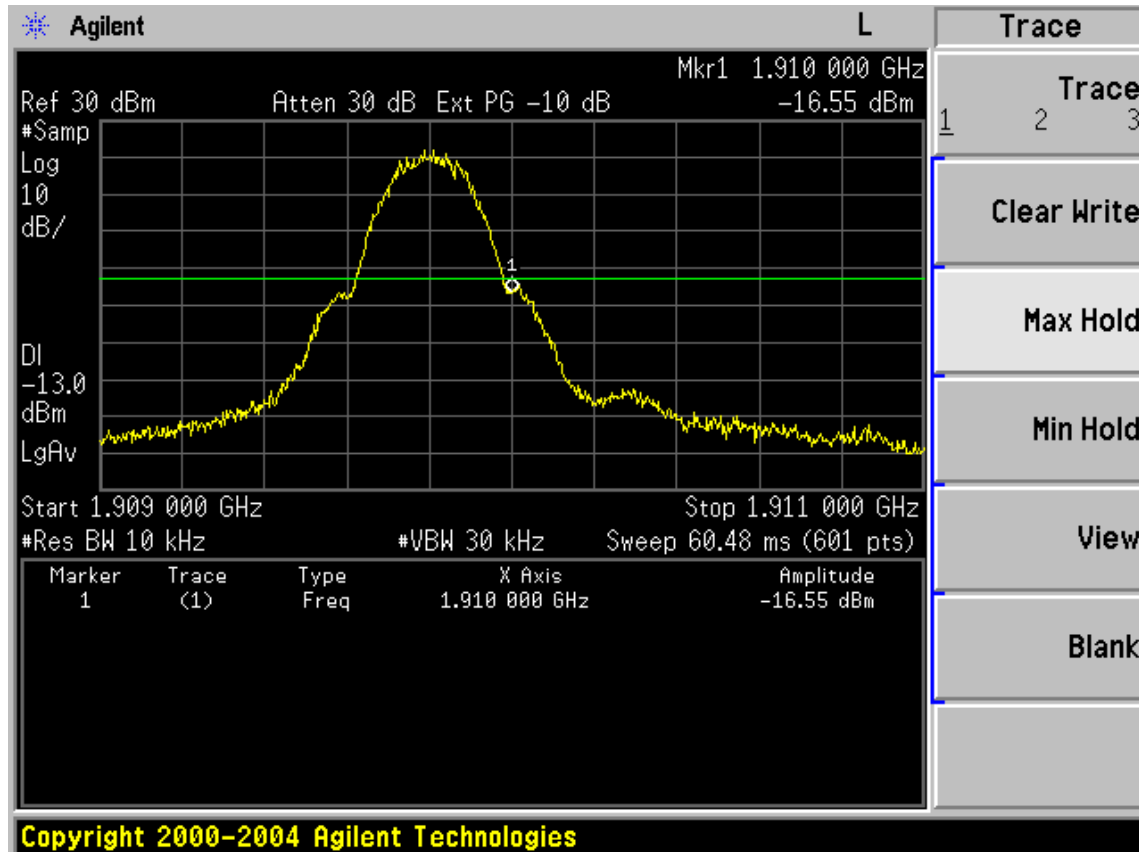
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Higher Band Edge Plot on Channel 810



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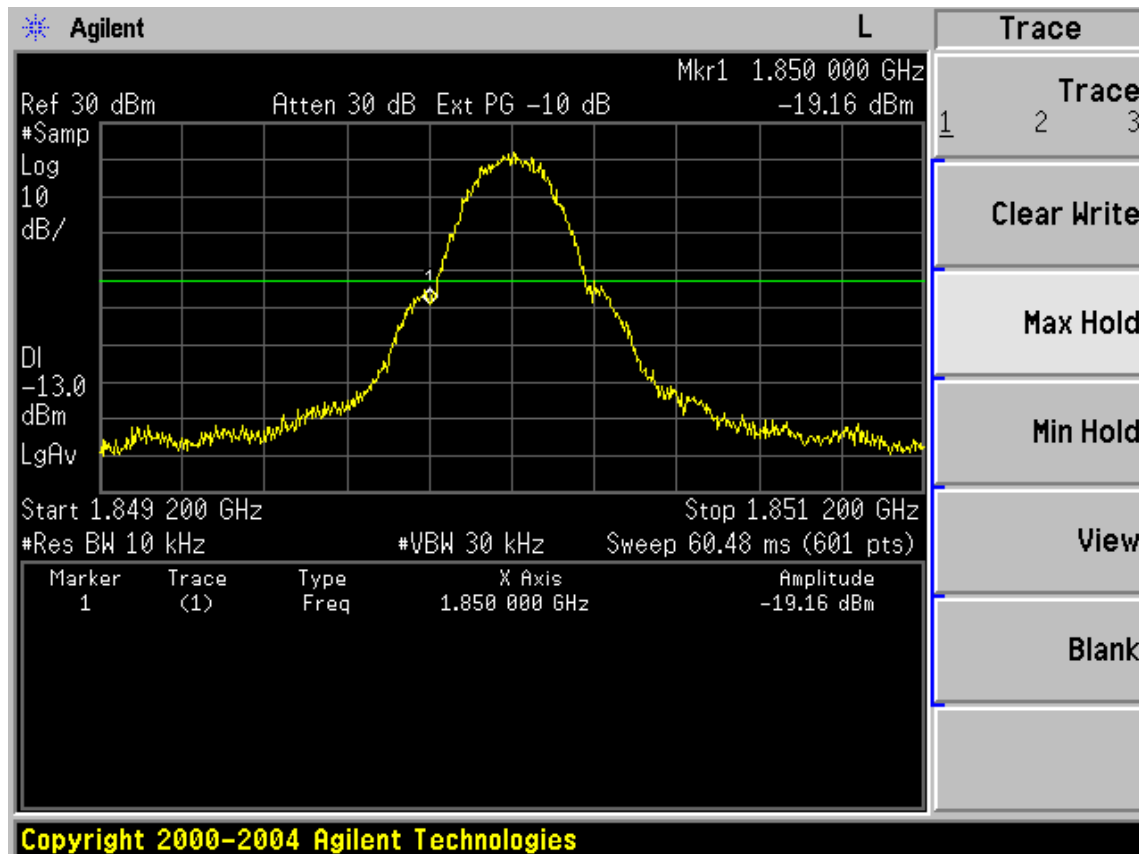
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Band :	GSM1900	Power Stage :	High
Test Mode :	EDGE Class 8 Link		

Lower Band Edge Plot on Channel 512



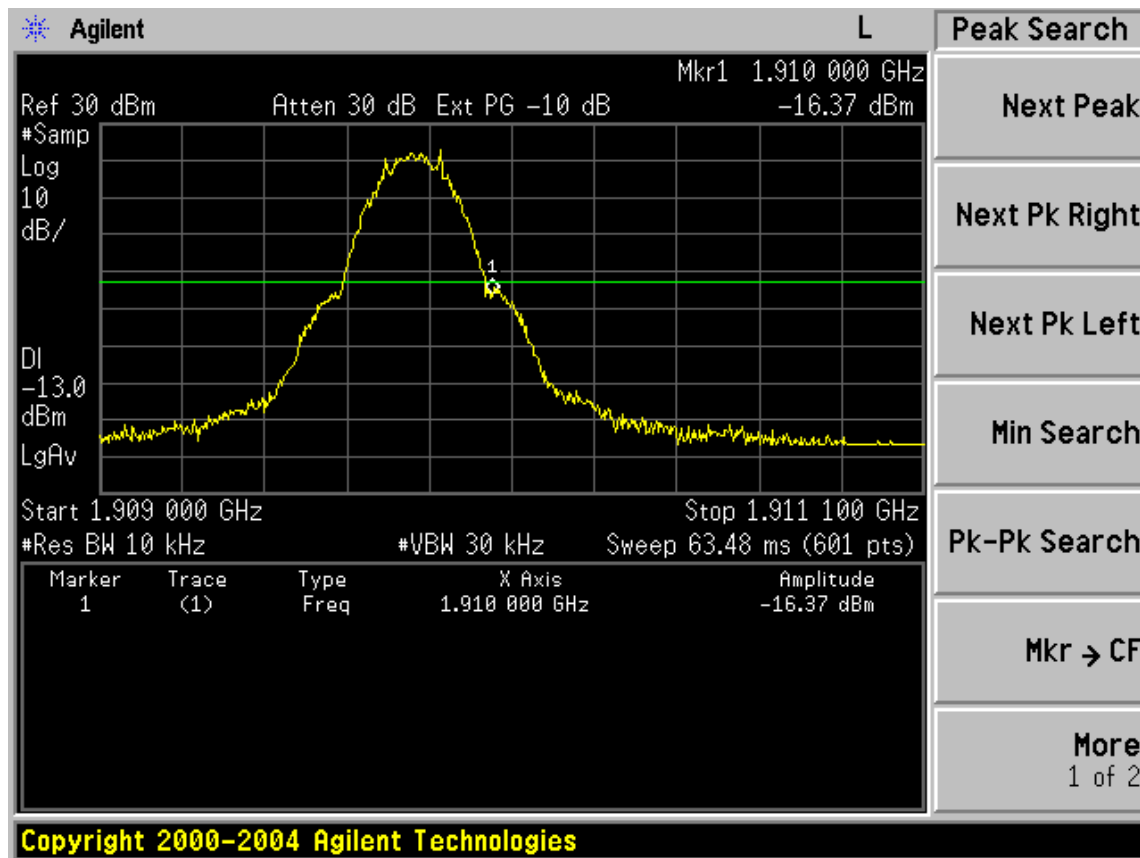
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Higher Band Edge Plot on Channel 810



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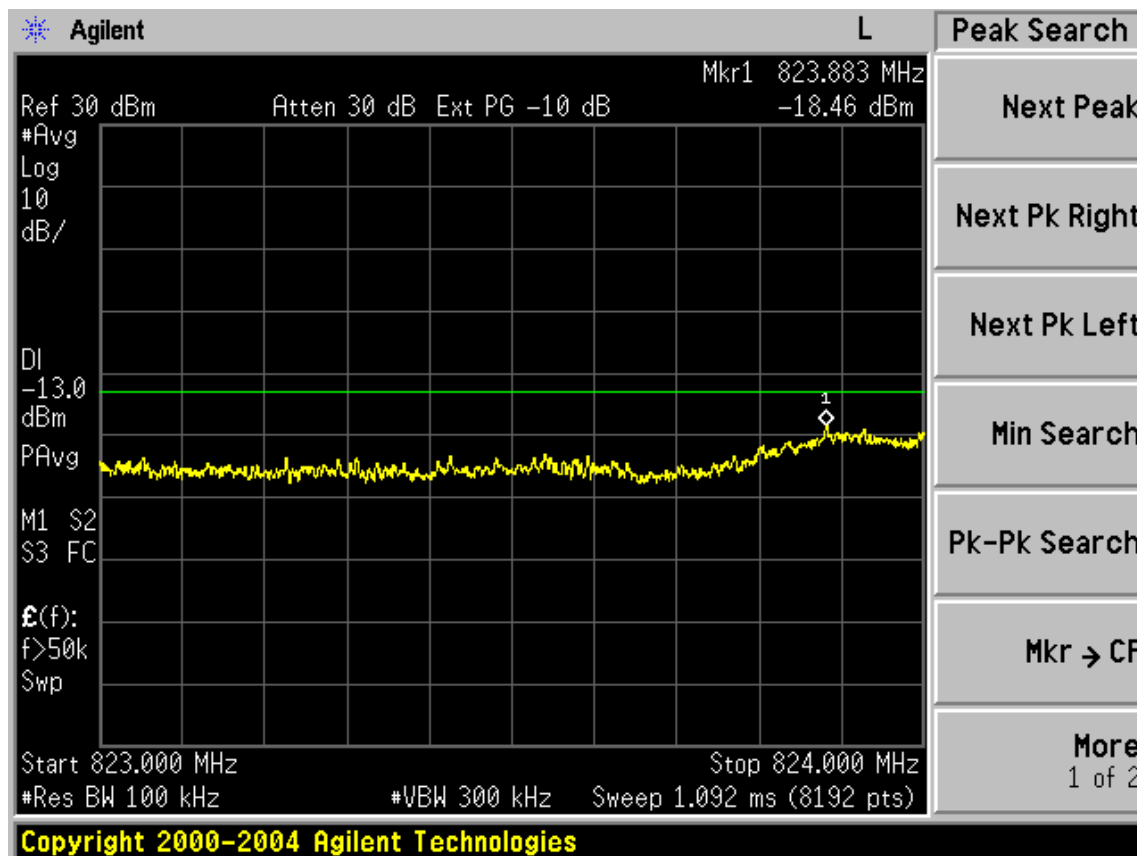
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Band :	WCDMA Band V	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link		

Lower Band Edge Plot on Channel 4132



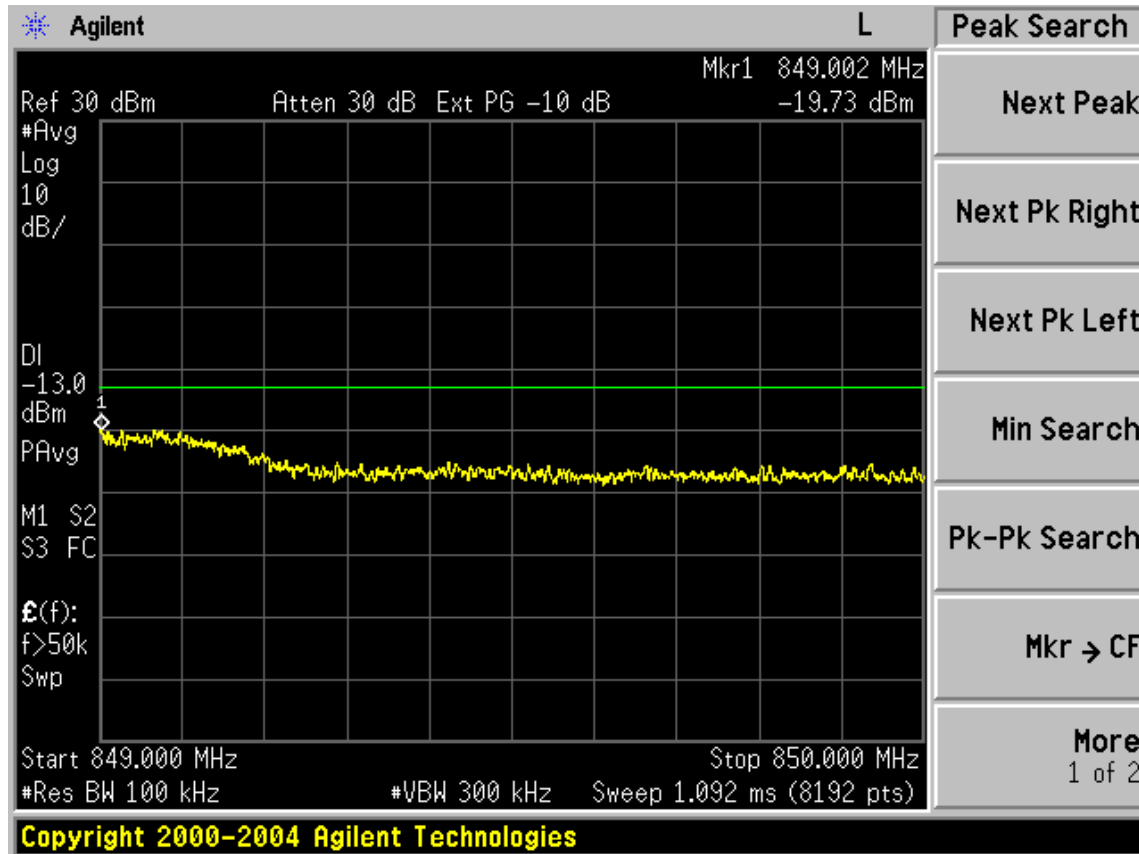
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Higher Band Edge Plot on Channel 4233



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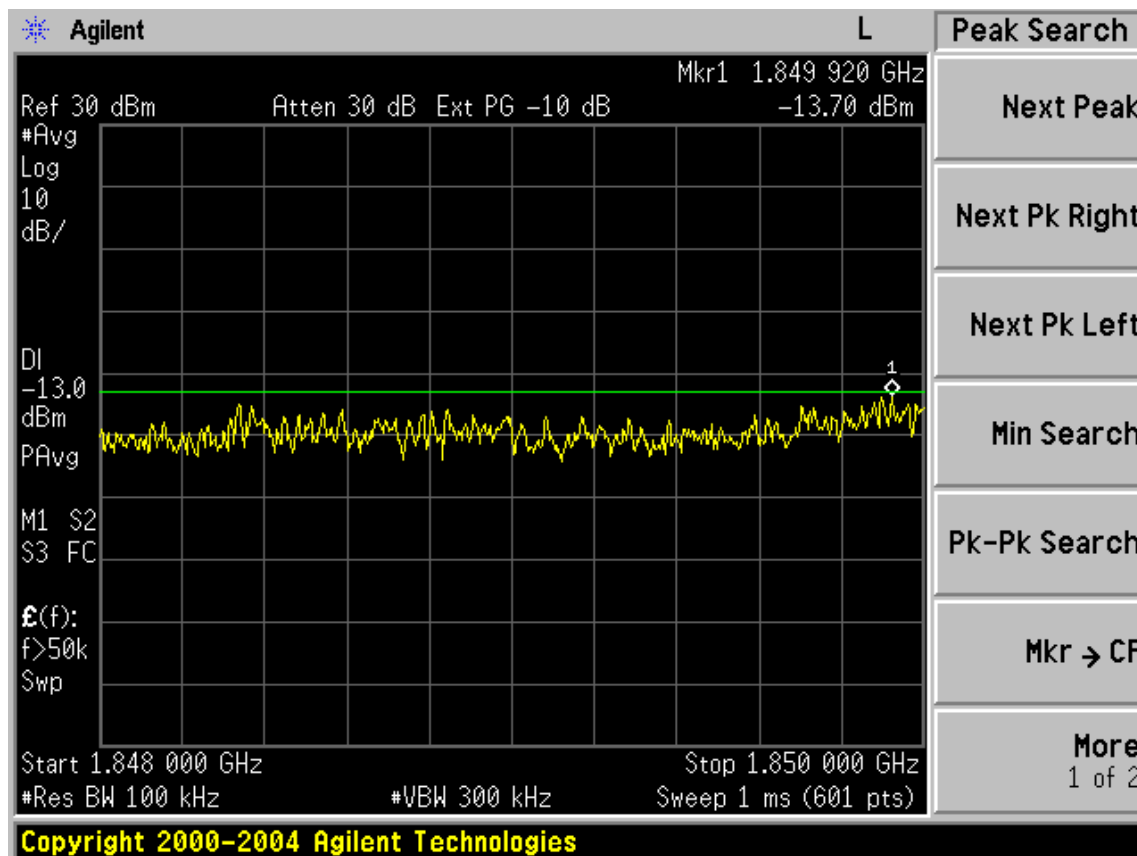
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Band :	WCDMA Band II	Power Stage :	High
Test Mode :	RMC 12.2Kbps Link		

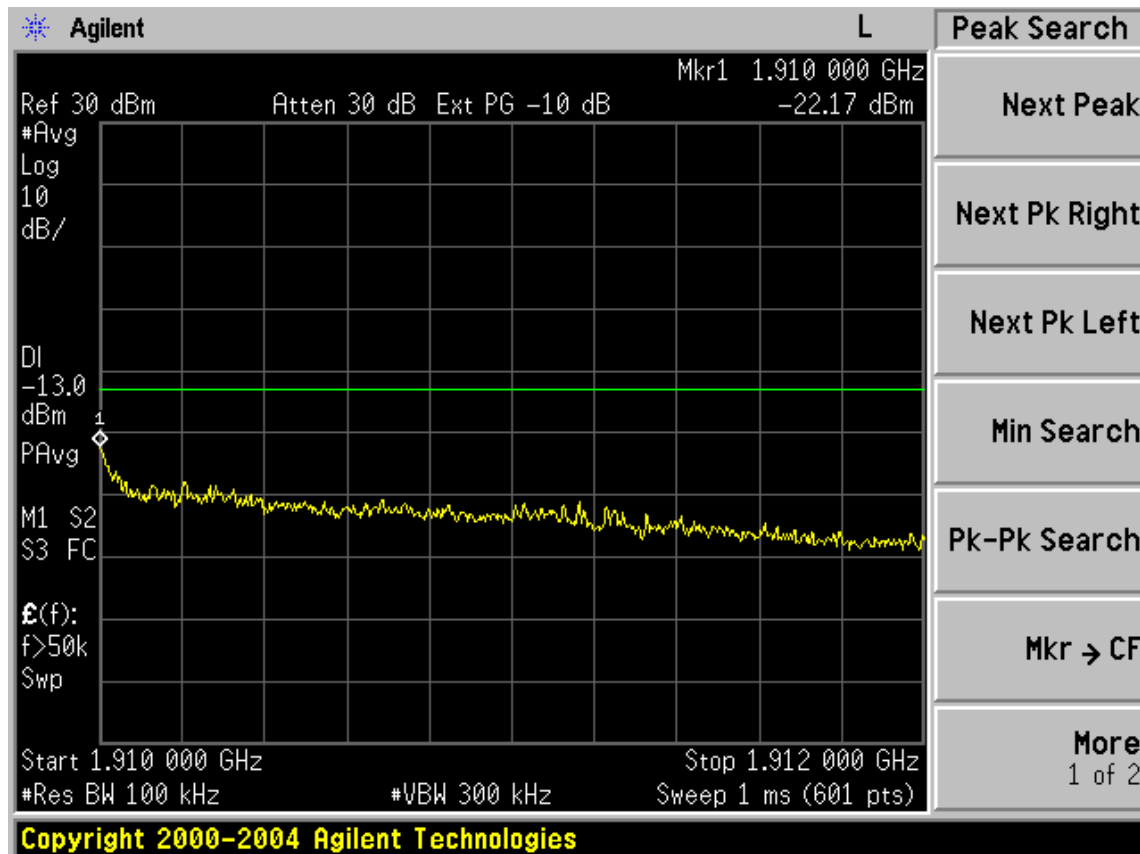
Lower Band Edge Plot on Channel 9262



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Higher Band Edge Plot on Channel 9538



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3.5 Conducted Emission Measurement

3.5.1 Description of Conducted Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log(P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

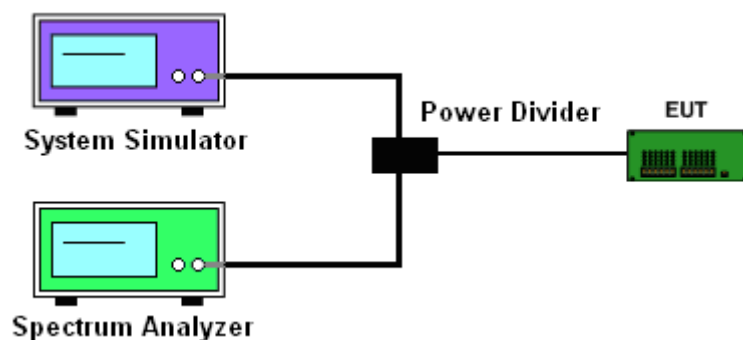
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$

3.5.4 Test Setup



The report refers only to the sample tested and does not apply to the bulk.

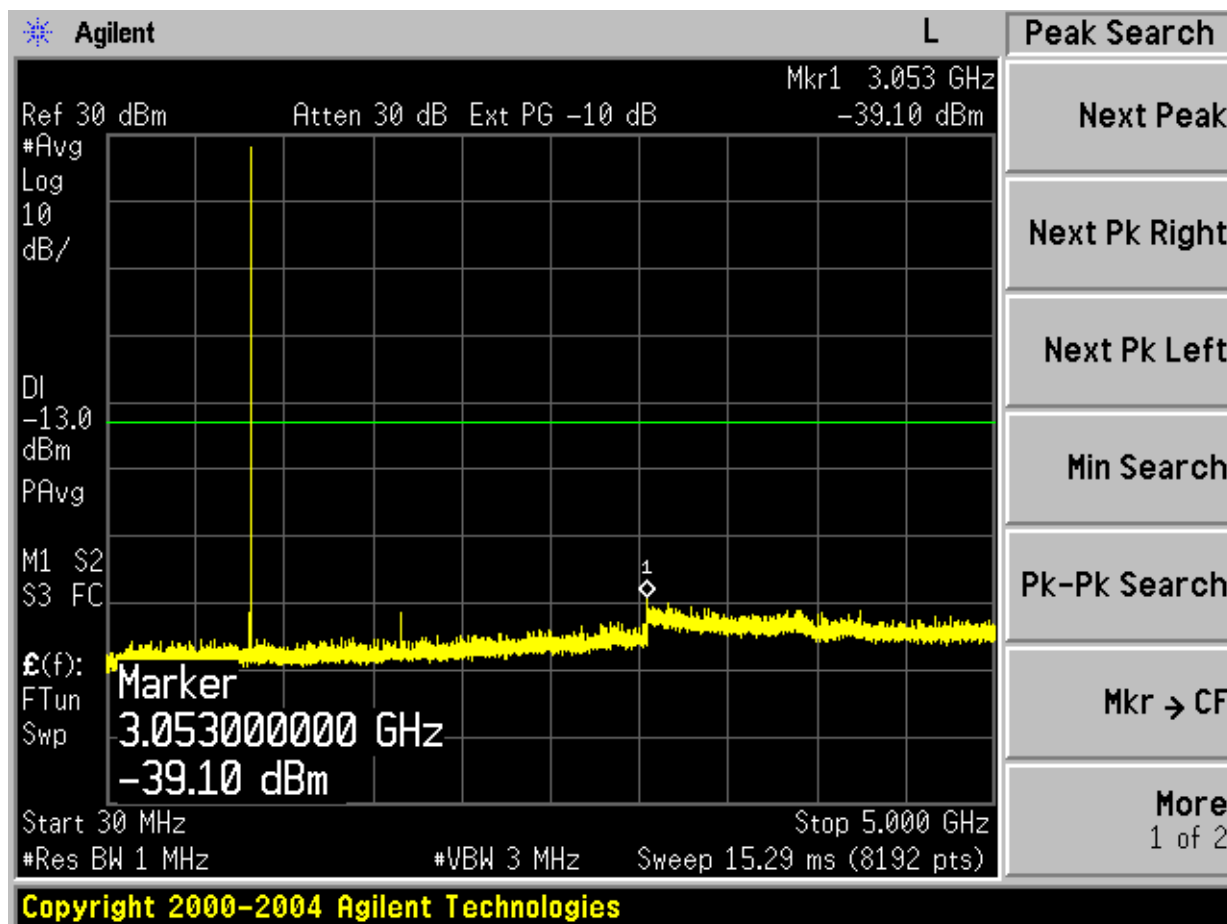
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3.5.5 Test Result (Plots) of Conducted Emission

Band :	GSM850	Channel :	CH190
Test Mode :	GSM Link		

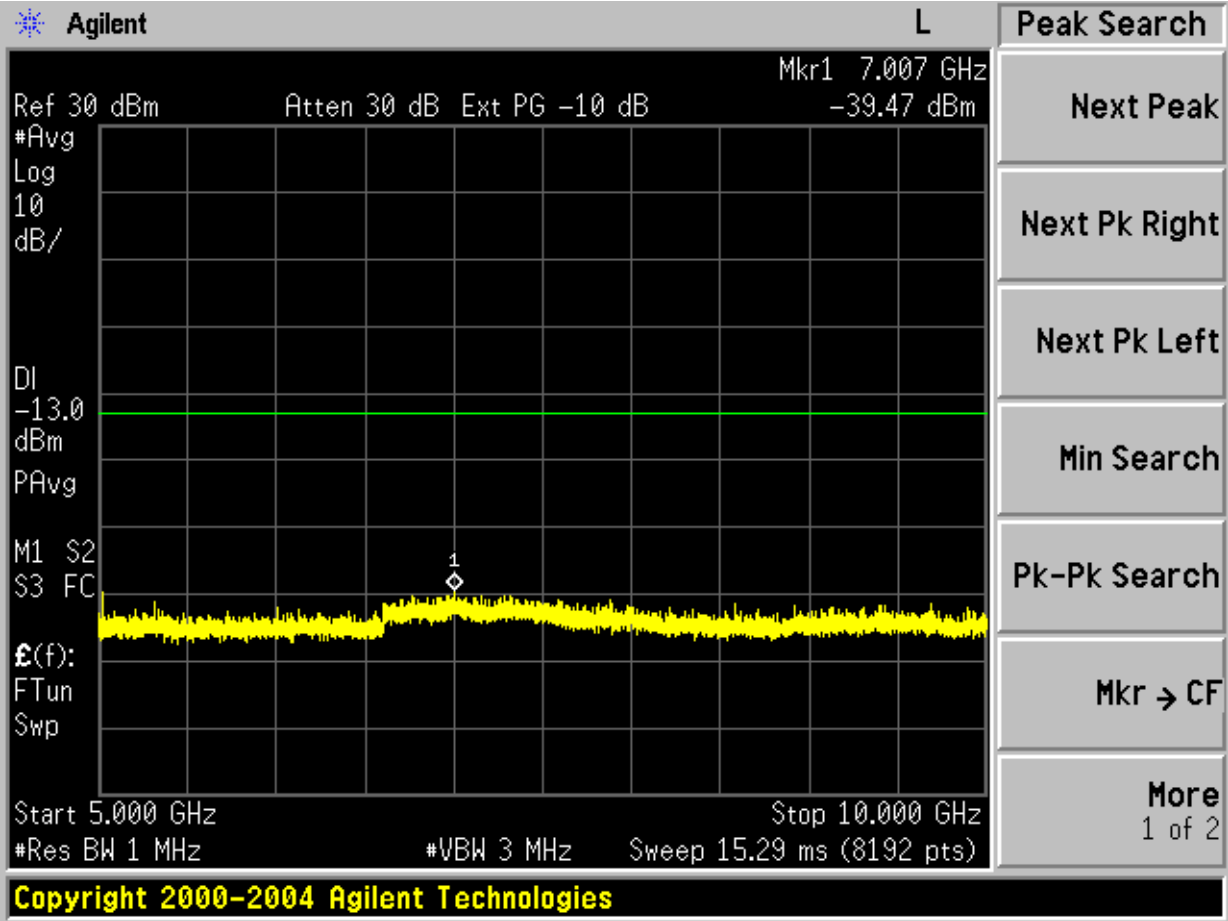
Conducted Emission Plot between 30MHz ~ 5GHz



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Conducted Emission Plot between 5GHz ~ 10GHz

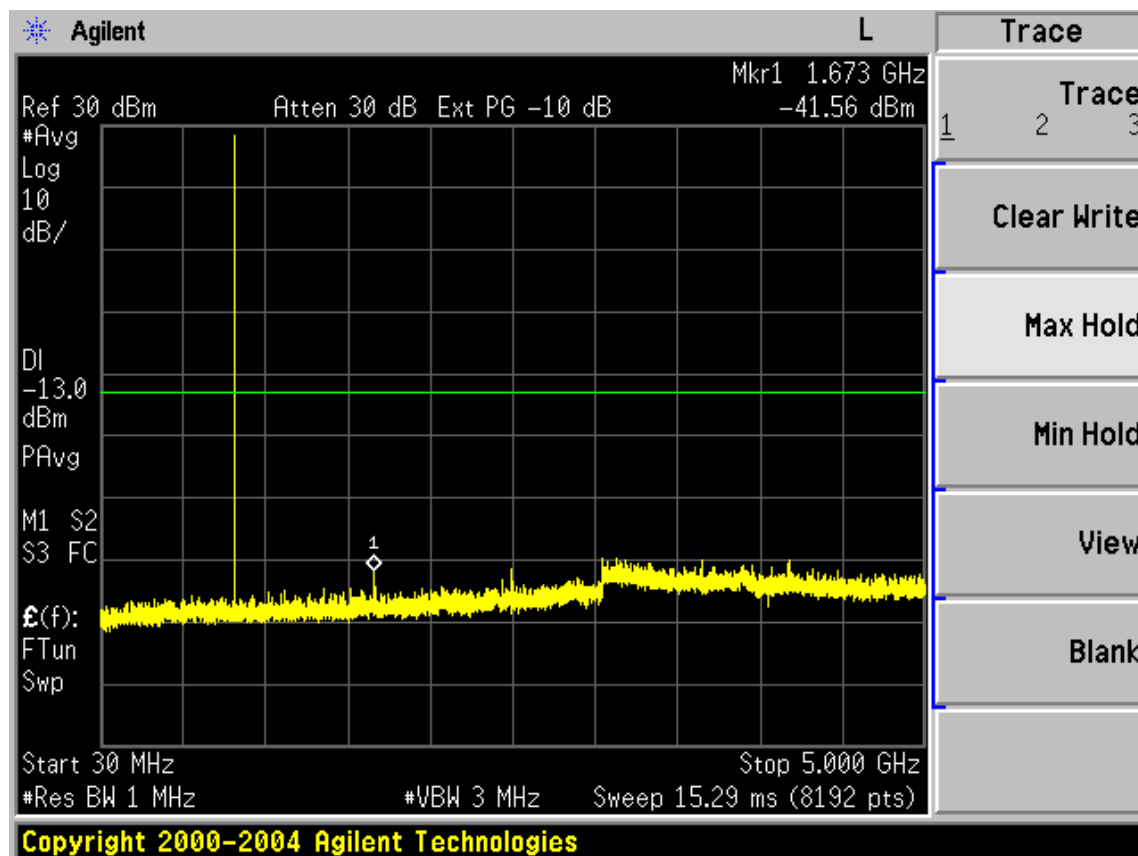


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Band :	GSM850	Channel :	CH190
Test Mode :	EDGE Class 8 Link		

Conducted Emission Plot between 30MHz ~ 5GHz



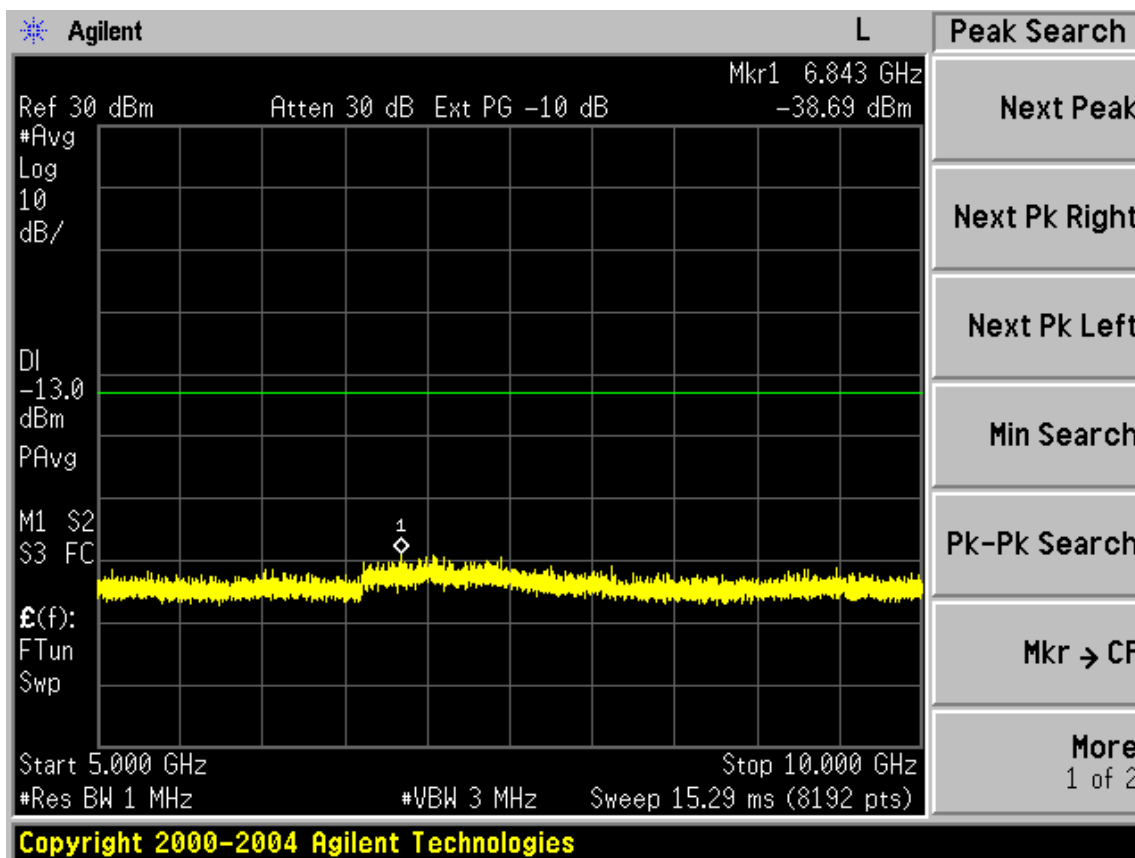
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Conducted Emission Plot between 5GHz ~ 10GHz



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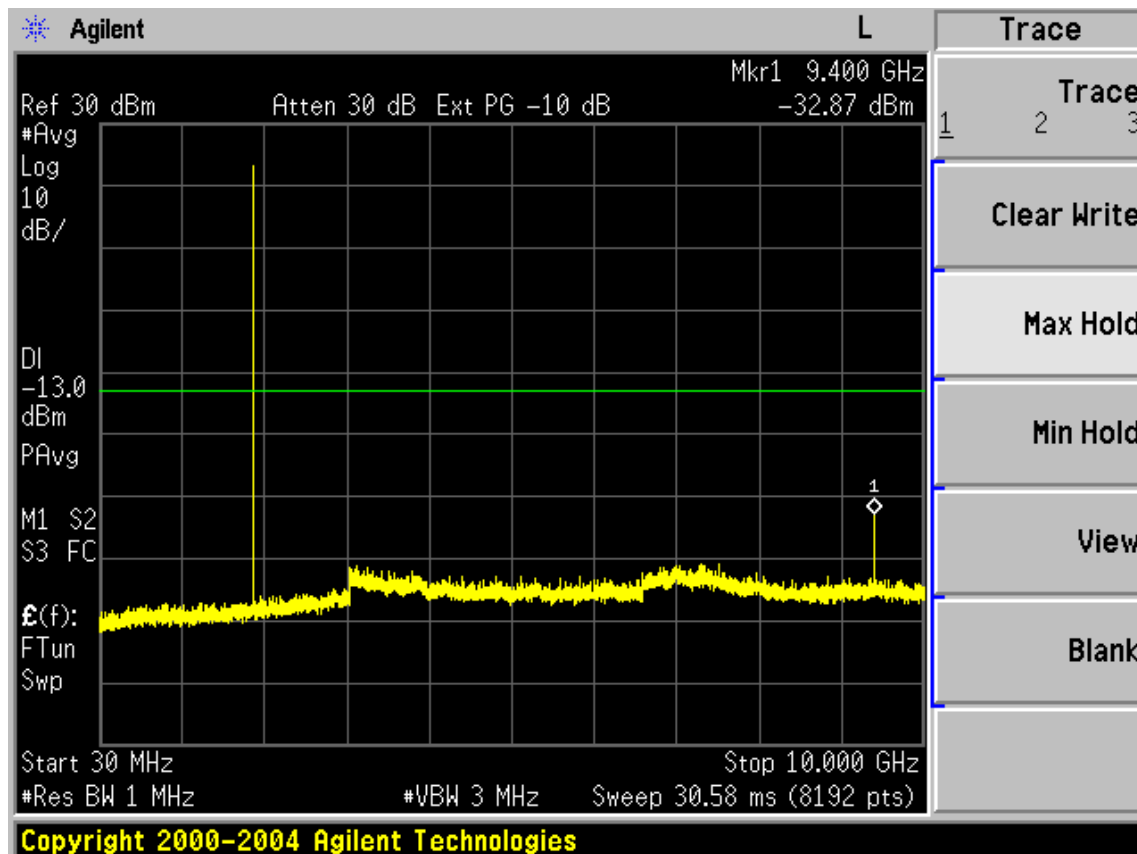
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Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link		

Conducted Emission Plot between 30MHz ~ 10GHz



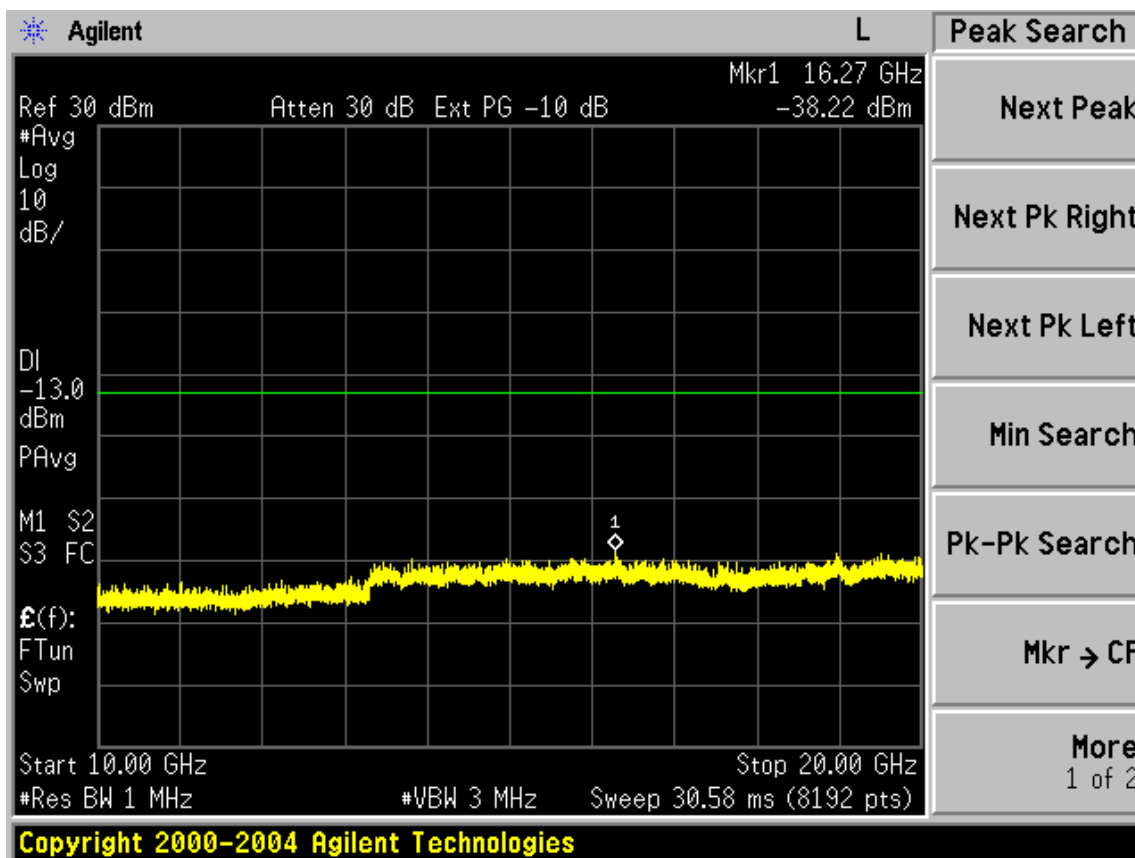
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Conducted Emission Plot between 10GHz ~ 20GHz



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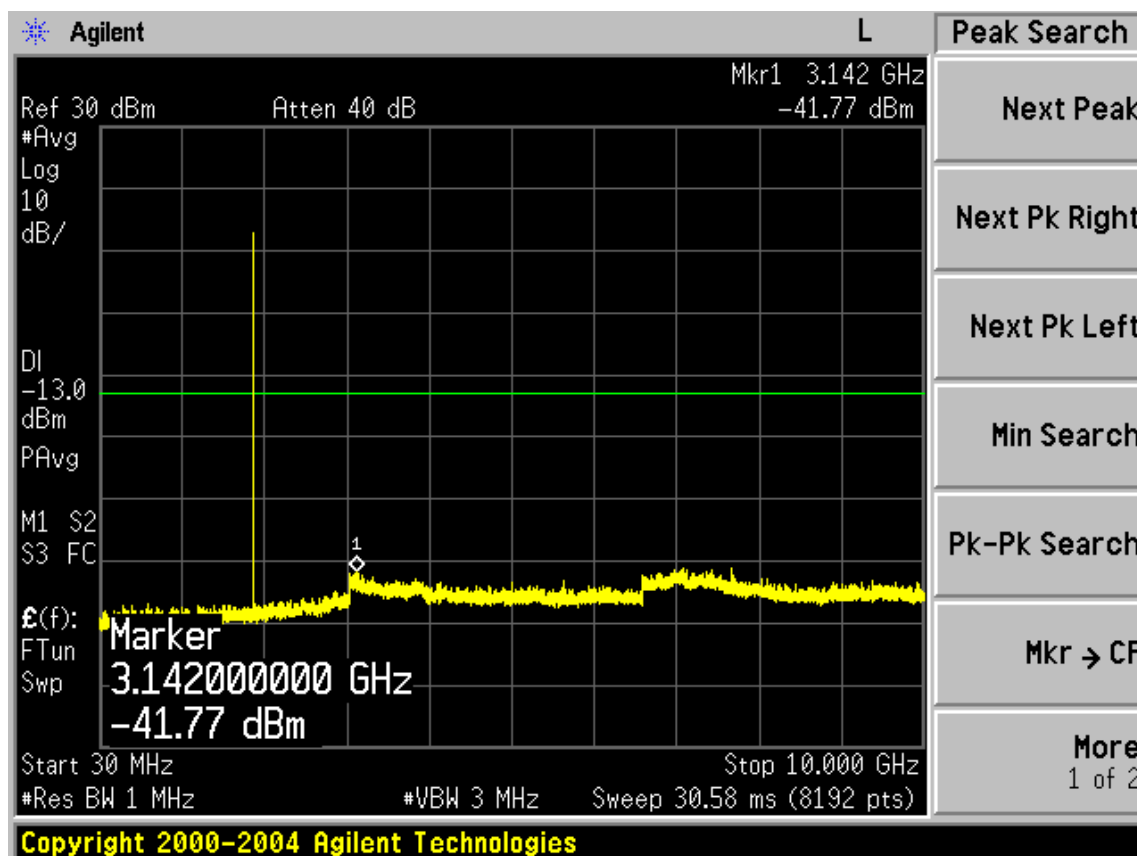
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Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE Class 8 Link		

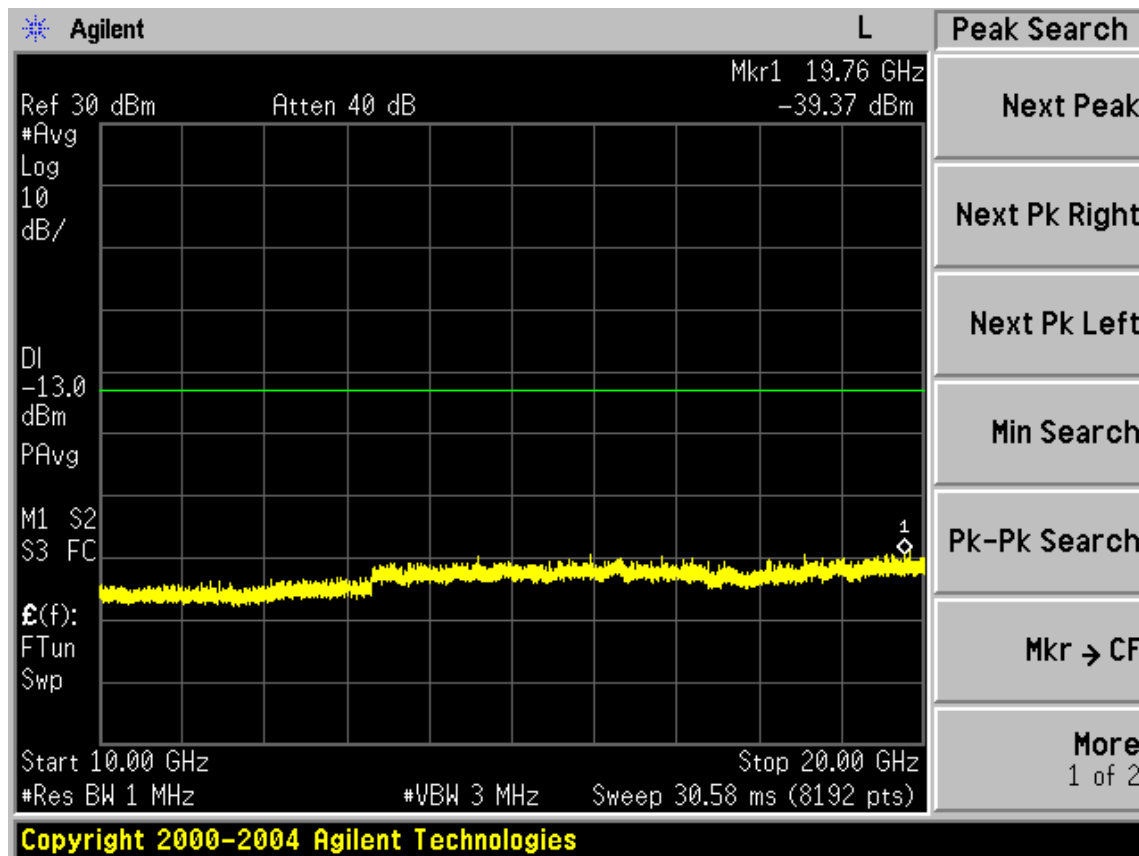
Conducted Emission Plot between 30MHz ~ 10GHz



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Conducted Emission Plot between 10GHz ~ 20GHz

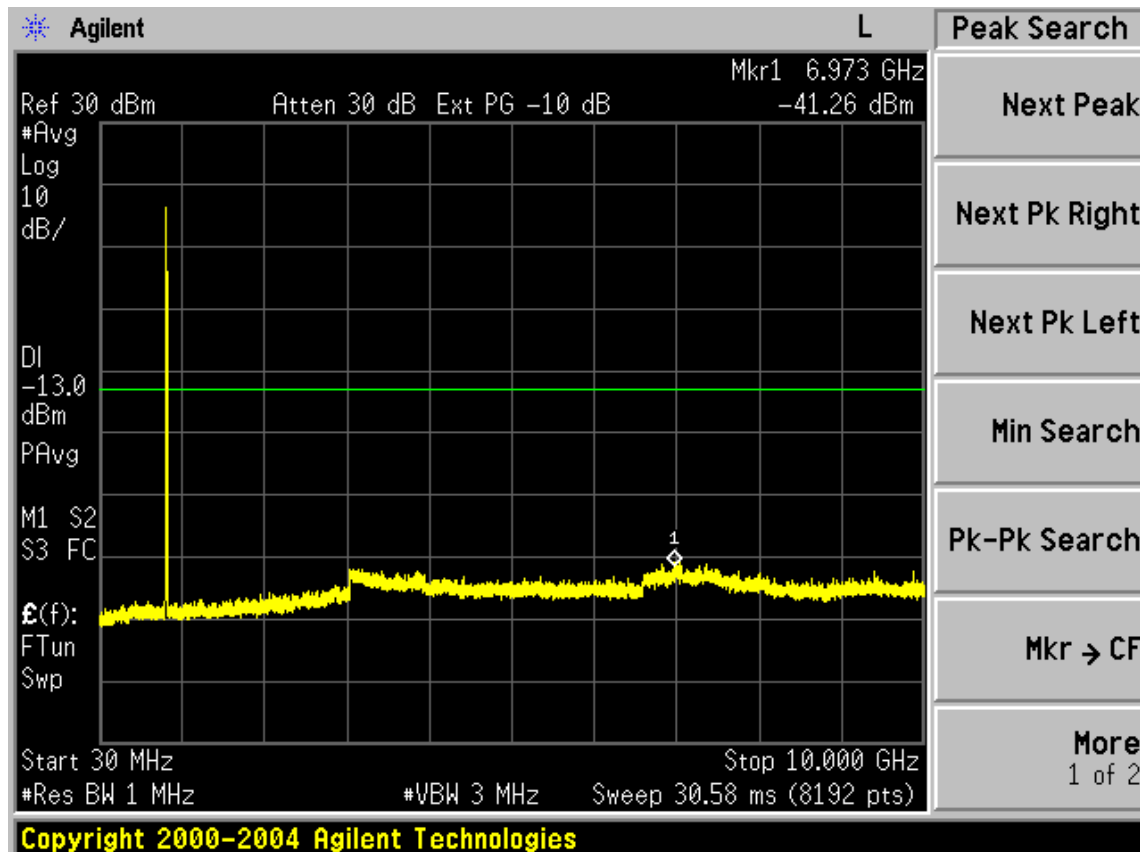


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Band :	WCDMA Band V	Channel :	CH4183
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 10GHz



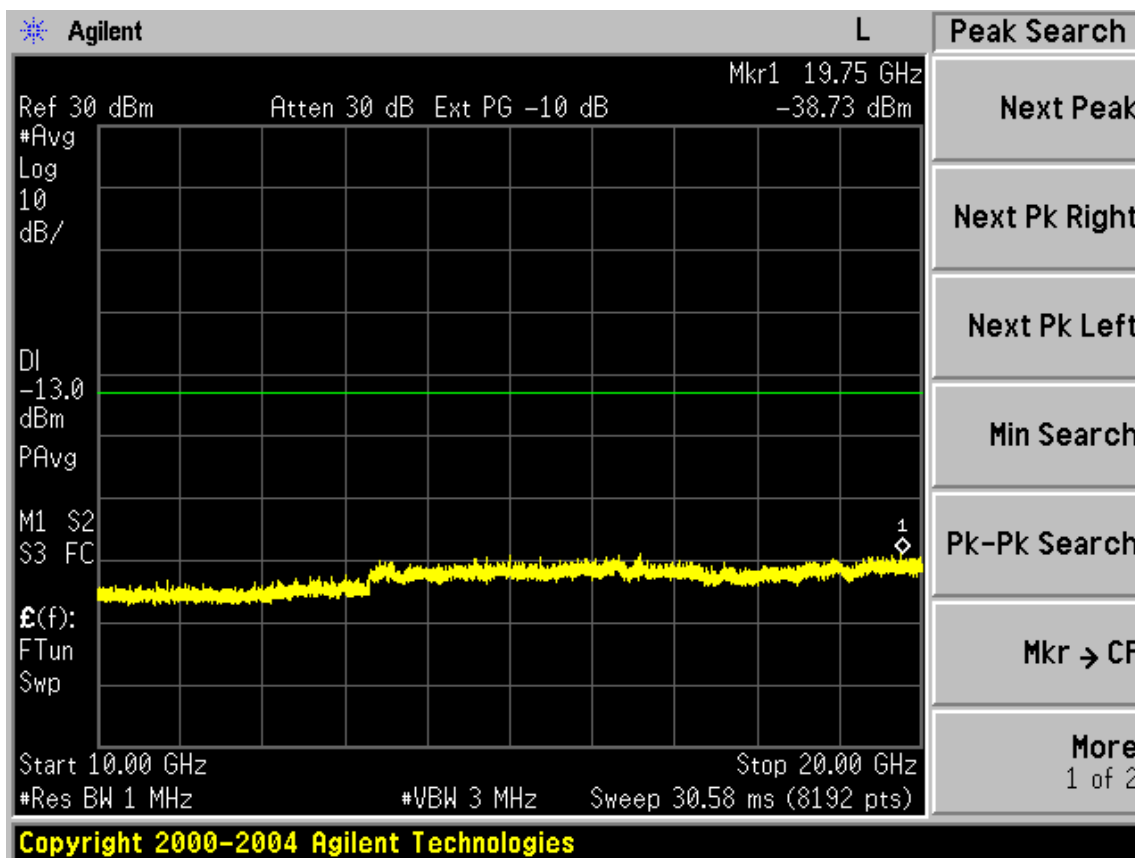
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Conducted Emission Plot between 10GHz ~ 20GHz



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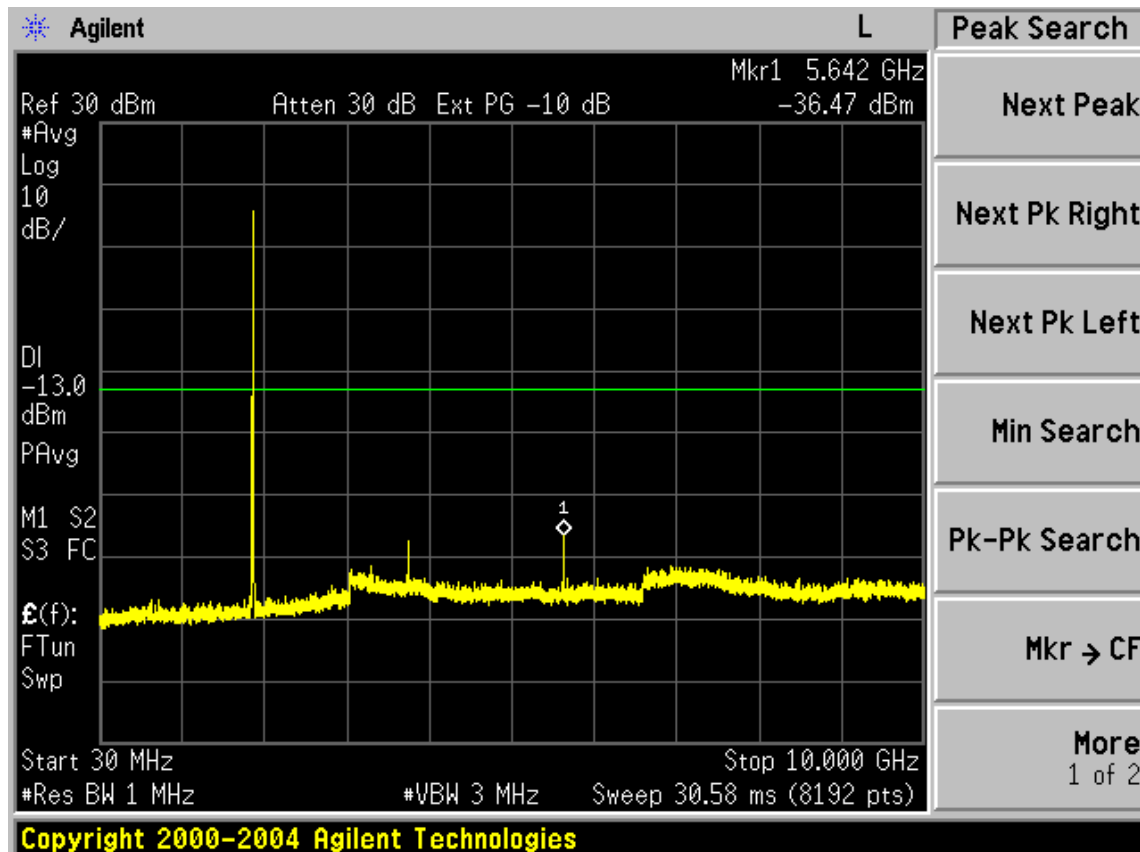
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Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link		

Conducted Emission Plot between 30MHz ~ 10GHz



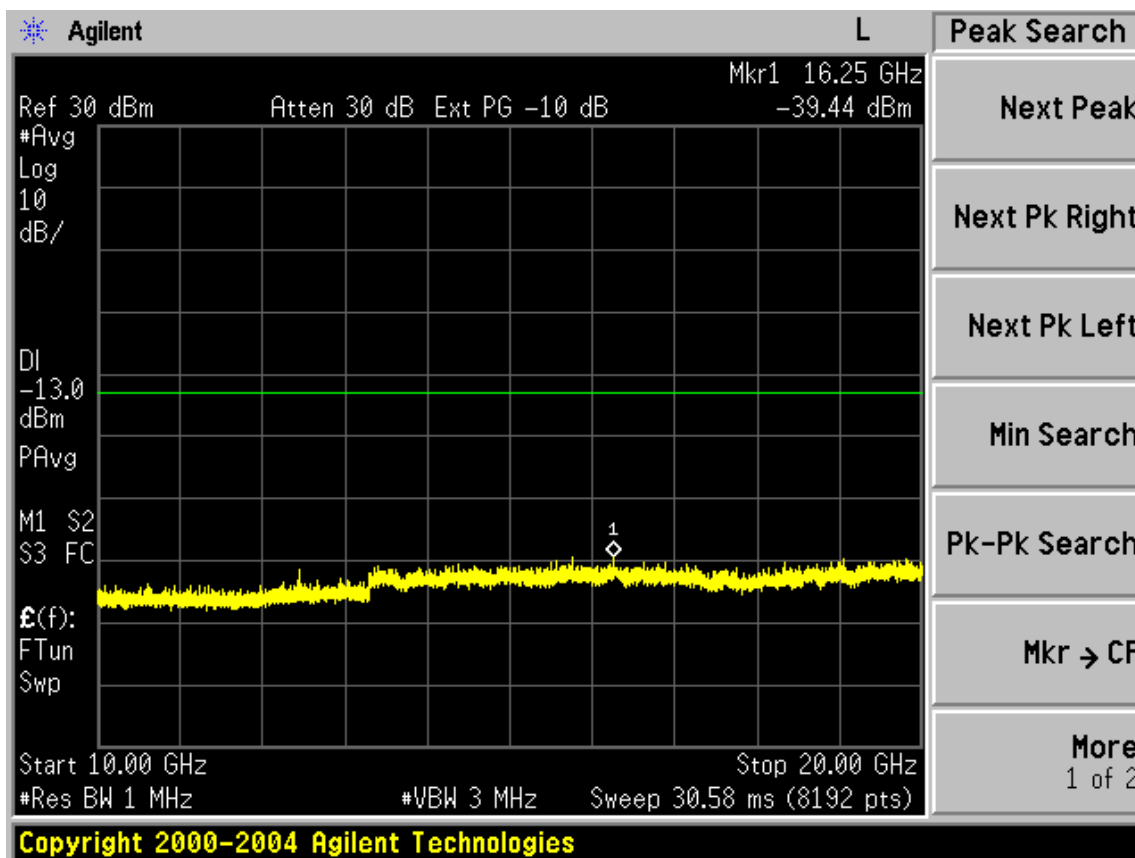
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Conducted Emission Plot between 10GHz ~ 20GHz



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3.6 Field Strength of Spurious Radiation Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

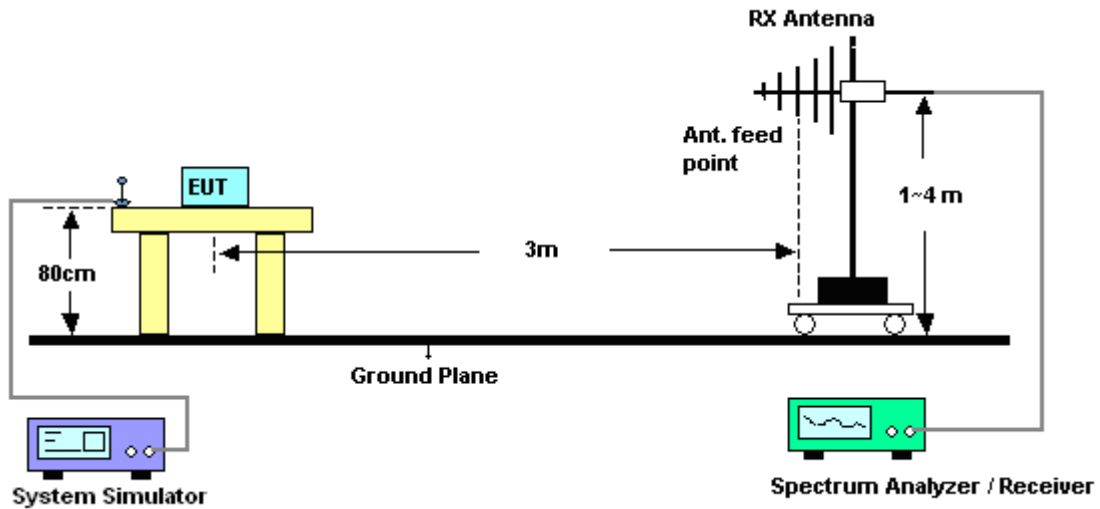
$$= -13\text{dBm}.$$
12. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13. ERP (dBm) = EIRP - 2.15

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3.6.4 Test Setup



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3.6.5 Test Result of Field Strength of Spurious Radiated

Test Mode	GSM850 GSM		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1648.40	Vertical	-35.62	-13	Pass
2472.60	Vertical	-40.51	-13	Pass
1648.40	Horizontal	-33.77	-13	Pass
2472.60	Horizontal	-39.52	-13	Pass

Test Mode	GSM850 GSM		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1673.20	Vertical	-35.56	-13	Pass
2509.80	Vertical	-40.69	-13	Pass
1673.20	Horizontal	-33.28	-13	Pass
2509.80	Horizontal	-40.15	-13	Pass

Test Mode	GSM850 GSM		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1697.60	Vertical	-36.09	-13	Pass
2546.41	Vertical	-41.25	-13	Pass
1697.60	Horizontal	-33.09	-13	Pass
2546.41	Horizontal	-41.30	-13	Pass

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Test Mode	GSM1900 GSM		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3700.40	Vertical	-42.59	-13	Pass
5550.60	Vertical	-46.71	-13	Pass
3700.40	Horizontal	-37.29	-13	Pass
5550.60	Horizontal	-43.17	-13	Pass

Test Mode	GSM1900 GSM		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3760.00	Vertical	-41.98	-13	Pass
5640.00	Vertical	-46.05	-13	Pass
3760.00	Horizontal	-36.34	-13	Pass
5640.00	Horizontal	-42.05	-13	Pass

Test Mode	GSM1900 GSM		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3819.60	Vertical	-41.63	-13	Pass
5729.40	Vertical	-45.73	-13	Pass
3819.60	Horizontal	-36.83	-13	Pass
5729.40	Horizontal	-42.52	-13	Pass

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Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1652.80	Vertical	-43.67	-13	Pass
2479.20	Vertical	-48.08	-13	Pass
1652.80	Horizontal	-39.15	-13	Pass
2479.20	Horizontal	-44.78	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1673.20	Vertical	-42.75	-13	Pass
2509.80	Vertical	-47.35	-13	Pass
1673.20	Horizontal	-38.55	-13	Pass
2509.80	Horizontal	-43.61	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
1693.20	Vertical	-42.93	-13	Pass
2539.80	Vertical	-47.46	-13	Pass
1693.20	Horizontal	-39.06	-13	Pass
2539.80	Horizontal	-44.28	-13	Pass

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Test Mode	WCDMA Band II RMC 12.2Kbps		Test Channel	Low
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3704.80	Vertical	-44.73	-13	Pass
5557.20	Vertical	-49.12	-13	Pass
3704.80	Horizontal	-41.53	-13	Pass
5557.20	Horizontal	-46.27	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	Middle
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3760	Vertical	-44.21	-13	Pass
5640	Vertical	-49.50	-13	Pass
3760	Horizontal	-40.76	-13	Pass
5640	Horizontal	-45.23	-13	Pass

Test Mode	WCDMA Band V RMC 12.2Kbps		Test Channel	High
Frequency (MHz)	Spurious Emissions		Limit (dBm)	Result
	Polarization	Level(dBm)		
3815.20	Vertical	-43.94	-13	Pass
5722.80	Vertical	-48.70	-13	Pass
3815.20	Horizontal	-41.13	-13	Pass
5722.80	Horizontal	-46.07	-13	Pass

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3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT can not be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

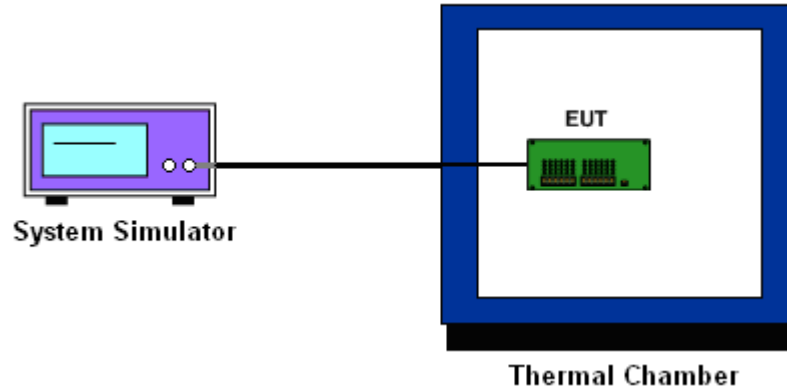
3.7.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

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3.7.5 Test Setup



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3.7.6 Test Result of Temperature and Voltage Variation

GSM850, Middle Channel

Middle channel, fo =836.6MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.1	-50	-0.06	2.5
	3.7	-49	-0.06	2.5
	4.3	-57	-0.07	2.5
-20	3.1	-60	-0.07	2.5
	3.7	-43	-0.05	2.5
	4.3	-46	-0.05	2.5
-10	3.1	-55	-0.07	2.5
	3.7	-47	-0.06	2.5
	4.3	-38	-0.05	2.5
0	3.1	-41	-0.05	2.5
	3.7	-47	-0.06	2.5
	4.3	-58	-0.07	2.5
10	3.1	-61	-0.07	2.5
	3.7	-52	-0.06	2.5
	4.3	-57	-0.07	2.5
20	3.1	-55	-0.07	2.5
	3.7	-64	-0.08	2.5
	4.3	-45	-0.05	2.5
30	3.1	-53	-0.06	2.5
	3.7	-44	-0.05	2.5
	4.3	-63	-0.08	2.5
40	3.1	-39	-0.05	2.5
	3.7	-46	-0.05	2.5
	4.3	-57	-0.07	2.5
50	3.1	-45	-0.05	2.5
	3.7	-59	-0.07	2.5
	4.3	-51	-0.06	2.5

Note: The extreme voltage was declared by the manufacturer.

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EDGE Class 8, Middle Channel

Middle channel, fo =836.6MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.1	-48	-0.06	2.5
	3.7	-55	-0.07	2.5
	4.3	-58	-0.07	2.5
-20	3.1	-46	-0.05	2.5
	3.7	-39	-0.05	2.5
	4.3	-50	-0.06	2.5
-10	3.1	-46	-0.05	2.5
	3.7	-52	-0.06	2.5
	4.3	-44	-0.05	2.5
0	3.1	-40	-0.05	2.5
	3.7	-43	-0.05	2.5
	4.3	-57	-0.07	2.5
10	3.1	-53	-0.06	2.5
	3.7	-61	-0.07	2.5
	4.3	-57	-0.07	2.5
20	3.1	-43	-0.05	2.5
	3.7	-49	-0.06	2.5
	4.3	-62	-0.07	2.5
30	3.1	-41	-0.05	2.5
	3.7	-55	-0.07	2.5
	4.3	-43	-0.05	2.5
40	3.1	-38	-0.05	2.5
	3.7	-51	-0.06	2.5
	4.3	-54	-0.06	2.5
50	3.1	-62	-0.07	2.5
	3.7	-46	-0.05	2.5
	4.3	-53	-0.06	2.5

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GSM1900 Middle Channel:

Middle channel, fo =1880.0MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.1	-79	-0.04	2.5
	3.7	-68	-0.04	2.5
	4.3	-82	-0.04	2.5
-20	3.1	-63	-0.03	2.5
	3.7	-69	-0.04	2.5
	4.3	-77	-0.04	2.5
-10	3.1	-82	-0.04	2.5
	3.7	-87	-0.05	2.5
	4.3	-71	-0.04	2.5
0	3.1	-79	-0.04	2.5
	3.7	-68	-0.04	2.5
	4.3	-88	-0.05	2.5
10	3.1	-80	-0.04	2.5
	3.7	-71	-0.04	2.5
	4.3	-68	-0.04	2.5
20	3.1	-83	-0.04	2.5
	3.7	-70	-0.04	2.5
	4.3	-82	-0.04	2.5
30	3.1	-85	-0.05	2.5
	3.7	-65	-0.03	2.5
	4.3	-73	-0.04	2.5
40	3.1	-75	-0.04	2.5
	3.7	-85	-0.05	2.5
	4.3	-70	-0.04	2.5
50	3.1	-76	-0.04	2.5
	3.7	-84	-0.04	2.5
	4.3	-69	-0.04	2.5

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EDGE Class 8 Middle Channel:

Middle channel, fo =1880.0MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.3	-93	-0.05	2.5
	3.7	-86	-0.05	2.5
	4.3	-79	-0.04	2.5
-20	3.3	-76	-0.04	2.5
	3.7	-82	-0.04	2.5
	4.3	-88	-0.05	2.5
-10	3.3	-75	-0.04	2.5
	3.7	-80	-0.04	2.5
	4.3	-67	-0.04	2.5
0	3.3	-77	-0.04	2.5
	3.7	-86	-0.05	2.5
	4.3	-81	-0.04	2.5
10	3.3	-79	-0.04	2.5
	3.7	-85	-0.05	2.5
	4.3	-73	-0.04	2.5
20	3.3	-84	-0.04	2.5
	3.7	-86	-0.05	2.5
	4.3	-78	-0.04	2.5
30	3.3	-92	-0.05	2.5
	3.7	-75	-0.04	2.5
	4.3	-83	-0.04	2.5
40	3.3	-81	-0.04	2.5
	3.7	-86	-0.05	2.5
	4.3	-74	-0.04	2.5
50	3.3	-82	-0.04	2.5
	3.7	-69	-0.04	2.5
	4.3	-75	-0.04	2.5

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WCDMA Band V

Middle channel, fo =836.6MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.3	-36	-0.04	2.5
	3.7	-43	-0.05	2.5
	4.3	-51	-0.06	2.5
-20	3.3	-49	-0.05	2.5
	3.7	-60	-0.07	2.5
	4.3	-53	-0.06	2.5
-10	3.3	-56	-0.07	2.5
	3.7	-40	-0.05	2.5
	4.3	-48	-0.06	2.5
0	3.3	-61	-0.07	2.5
	3.7	-55	-0.07	2.5
	4.3	-51	-0.06	2.5
10	3.3	-56	-0.07	2.5
	3.7	-50	-0.06	2.5
	4.3	-41	-0.05	2.5
20	3.3	-46	-0.05	2.5
	3.7	-49	-0.06	2.5
	4.3	-59	-0.07	2.5
30	3.3	-43	-0.05	2.5
	3.7	-57	-0.07	2.5
	4.3	-56	-0.07	2.5
40	3.3	-40	-0.05	2.5
	3.7	-53	-0.06	2.5
	4.3	-49	-0.05	2.5
50	3.3	-53	-0.06	2.5
	3.7	-65	-0.08	2.5
	4.3	-48	-0.06	2.5

Note: The extreme voltage was declared by the manufacturer.

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WCDMA Band II

Middle channel, fo =1880.0MHz				
Temperature (°C)	Power Supplied (V)	Frequency Error (Hz)	Error (ppm)	Limit (ppm)
-30	3.3	-77	-0.03	2.5
	3.7	-82	-0.04	2.5
	4.3	-69	-0.04	2.5
-20	3.3	-85	-0.03	2.5
	3.7	-78	-0.04	2.5
	4.3	-90	-0.02	2.5
-10	3.3	-84	-0.03	2.5
	3.7	-76	-0.04	2.5
	4.3	-79	-0.04	2.5
0	3.3	-91	-0.04	2.5
	3.7	-89	-0.02	2.5
	4.3	-80	-0.03	2.5
10	3.3	-83	-0.03	2.5
	3.7	-82	-0.04	2.5
	4.3	-75	-0.02	2.5
20	3.3	-85	-0.02	2.5
	3.7	-92	-0.03	2.5
	4.3	-81	-0.03	2.5
30	3.3	-76	-0.03	2.5
	3.7	-86	-0.04	2.5
	4.3	-93	-0.03	2.5
40	3.3	-91	-0.03	2.5
	3.7	-85	-0.03	2.5
	4.3	-79	-0.04	2.5
50	3.3	-76	-0.03	2.5
	3.7	-82	-0.03	2.5
	4.3	-89	-0.04	2.5

Note: The extreme voltage was declared by the manufacturer.

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3.8 Peak-to-Average Ratio

3.8.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

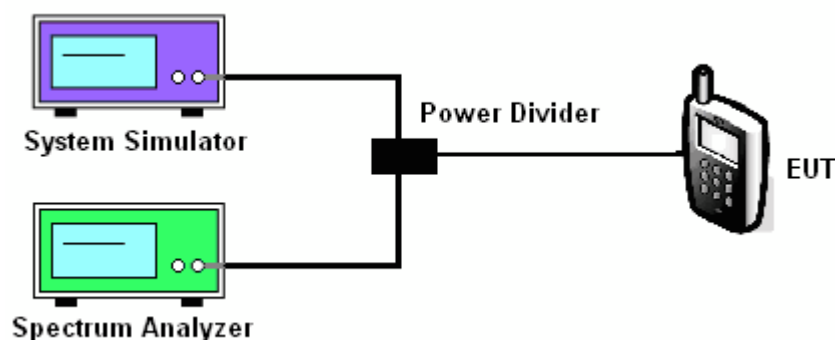
3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.8.4 Test Setup



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3.8.5 Test Result of Peak-to-Average Ratio

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	1.82	1.89	1.93	2.09	2.15	2.20	2.21	2.19	2.30

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3.9 Mains Conducted Emissions

3.9.1 Measurement Method

The measurement procedure specified in ANSI C63.4-2003 was used for testing. Conducted Emission was measured with travel charger.

3.9.2 Provisions Applicable

Frequency of Emission (MHz)	Conducted Limit(dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50
*Decreases with the logarithm of the frequency.		
*The lower limit shall apply at the transition frequency.		

Note: The GSM850 mode is the worst condition and the test result as following:

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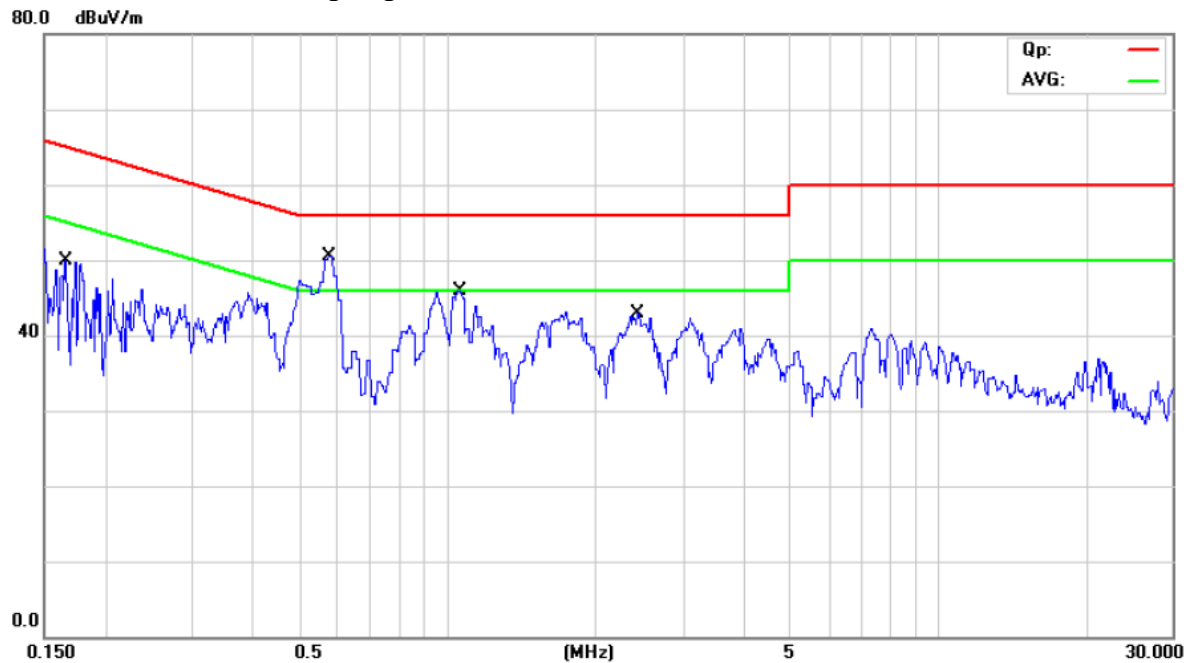
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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)****EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Communication by GSM850**Equipment Level: Class B****Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1		0.1666	23.60	9.77	33.37	65.13	-31.76	QP	
2		0.1666	-13.00	9.77	-3.23	55.13	-58.36	AVG	
3	*	0.5767	38.00	9.77	47.77	56.00	-8.23	QP	
4		0.5767	9.90	9.77	19.67	46.00	-26.33	AVG	
5		1.0516	32.00	9.79	41.79	56.00	-14.21	QP	
6		1.0516	5.00	9.79	14.79	46.00	-31.21	AVG	
7		2.4331	27.90	9.82	37.72	56.00	-18.28	QP	
8		2.4331	1.10	9.82	10.92	46.00	-35.08	AVG	

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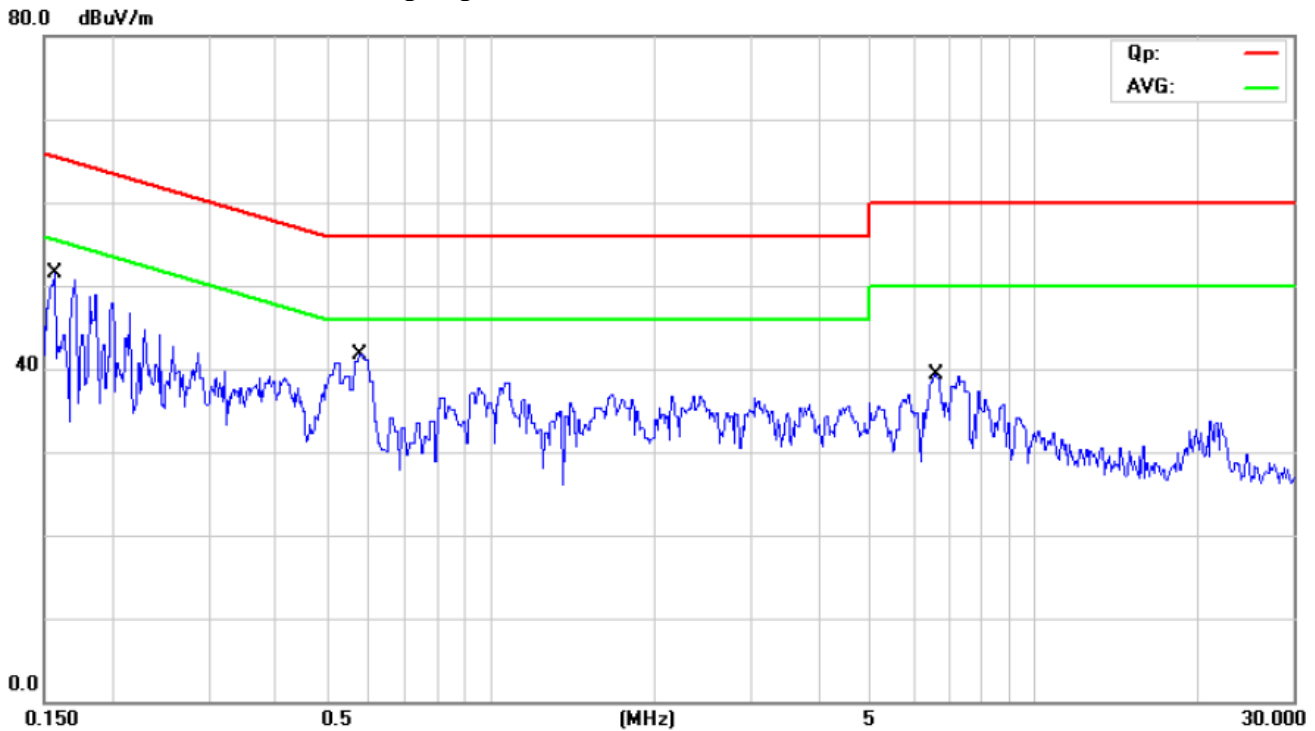
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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)****EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Communication by GSM850**Equipment Level: Class B****Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1572	29.00	9.78	38.78	65.61	-26.83	QP	
2		0.1572	0.40	9.78	10.18	55.61	-45.43	AVG	
3	*	0.5775	28.20	9.77	37.97	56.00	-18.03	QP	
4		0.5775	1.70	9.77	11.47	46.00	-34.53	AVG	
5		6.5920	24.20	9.99	34.19	60.00	-25.81	QP	
6		6.5920	-7.00	9.99	2.99	50.00	-47.01	AVG	

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4.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2018-06-22	2019-06-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2018-06-22	2019-06-21
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Power meter	Anritsu	ML2487A	6K00003613	2018-08-22	2019-08-21
Power sensor	Anritsu	MA2491A	32263	2018-08-22	2019-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2018-06-22	2019-06-21
EMI Test Receiver	RS	ESH3	860904/006	2018-06-22	2019-06-21
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	HP/Agilent	E4407B	MY50441392	2018-03-27	2019-03-26
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2018-05-24	2019-05-23
RF Cable	Zhengdi	7m	--	2018-03-17	2019-03-16
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07
Universal Radio Communication Test	RS	CMU200	1100.008.02	2018-06-22	2019-06-21

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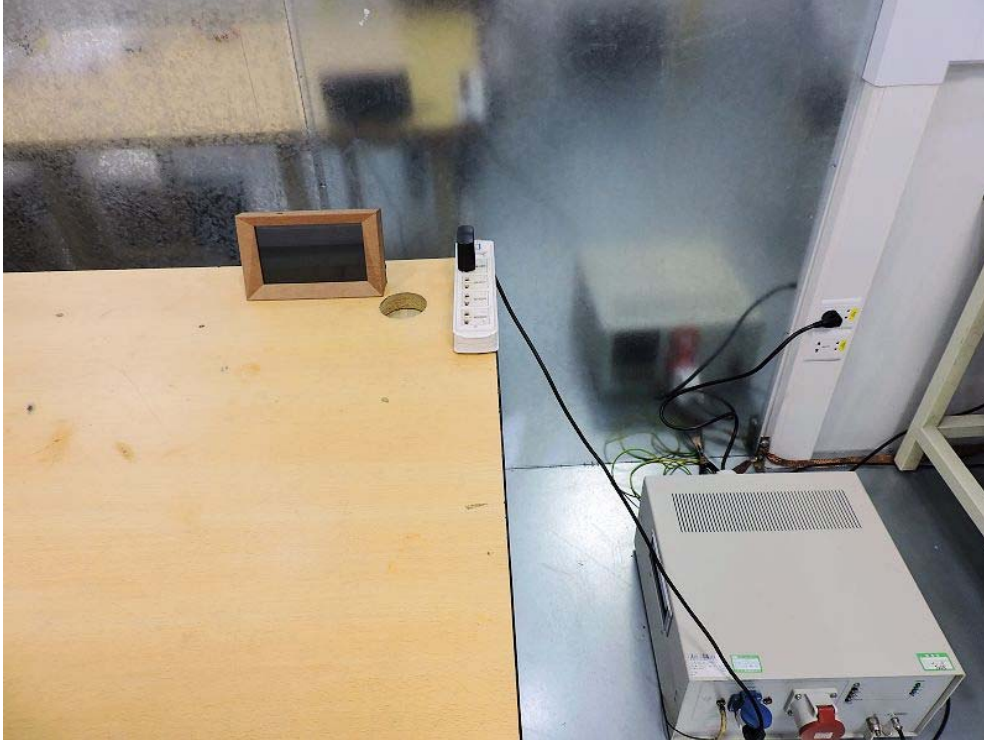
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5.0 Photographs

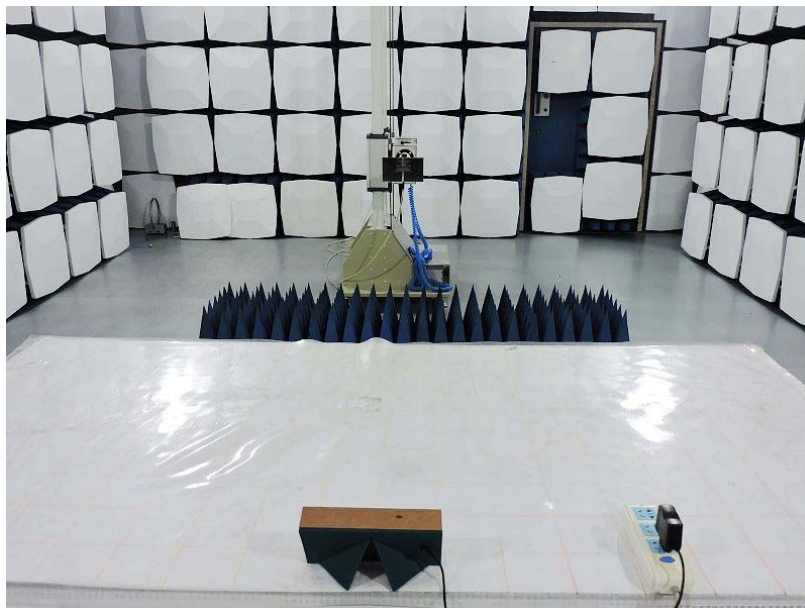
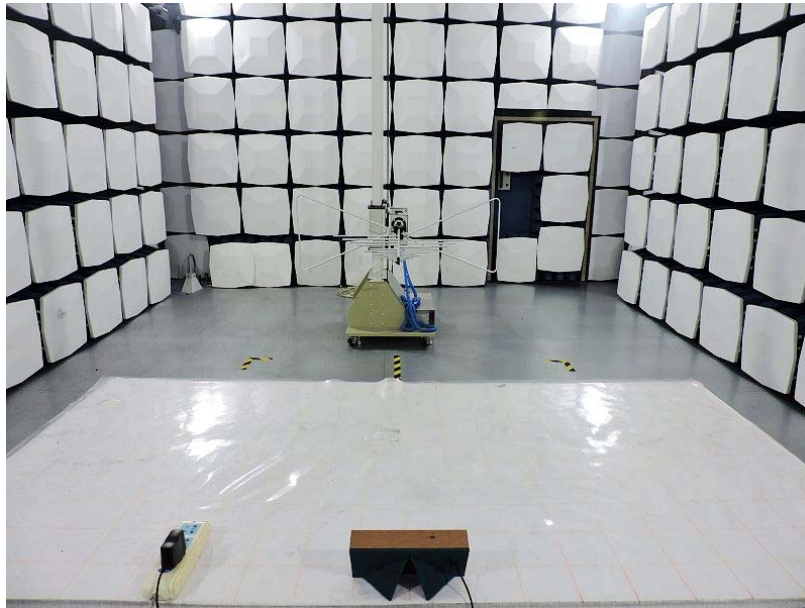
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



Photographs – EUT

Please refer to test report FCC1902009-01

End of the report

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