

**OCCUPIED BANDWIDTH****§2.1049(h)(i)****Occupied Bandwidth Results**

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the GSM-850 & GSM-1900 frequency band. Table below lists the measured -20dBc (99%) occupied bandwidths. Spectrum analyzer plots are included on the following pages.

**-20dBc BANDWIDTH (GSM-850)**

Frequency (MHz)	-20dBc Bandwidth (kHz)
824.2	282.56
836.6	290.58
848.8	270.54

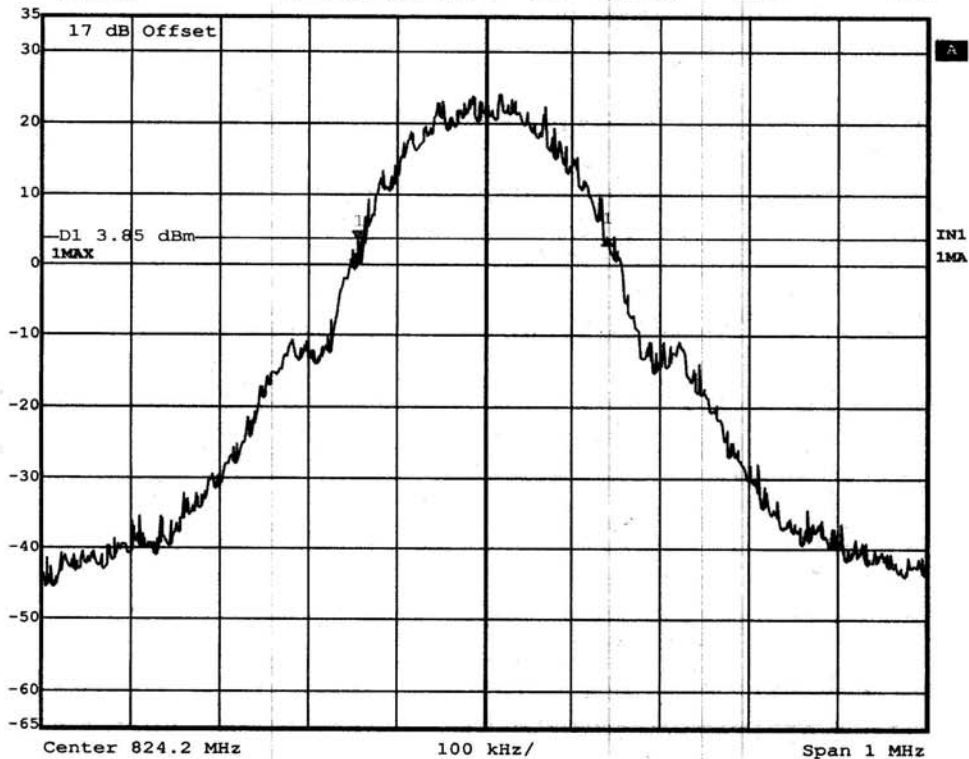
**-20dBc BANDWIDTH (GSM-1900)**

Frequency (MHz)	-20dBc Bandwidth (kHz)
1850.2	278.55
1880	276.55
1909.8	284.56



**-20dBc BANDWIDTH CHANNEL 128(GSM-850)**

	Delta 1 [T1]	RBW	3 kHz	RF Att	30 dB
	Ref Lvl	0.47 dB	VBW	3 kHz	
	35 dBm	282.56513026 kHz	SWT	280 ms	Unit dBm



-20dBc BANDWIDTH CHANNEL 190(GSM-850)



Delta 1 [T1]

RBW 3 kHz RF Att 30 dB

Ref Lvl 0.67 dB

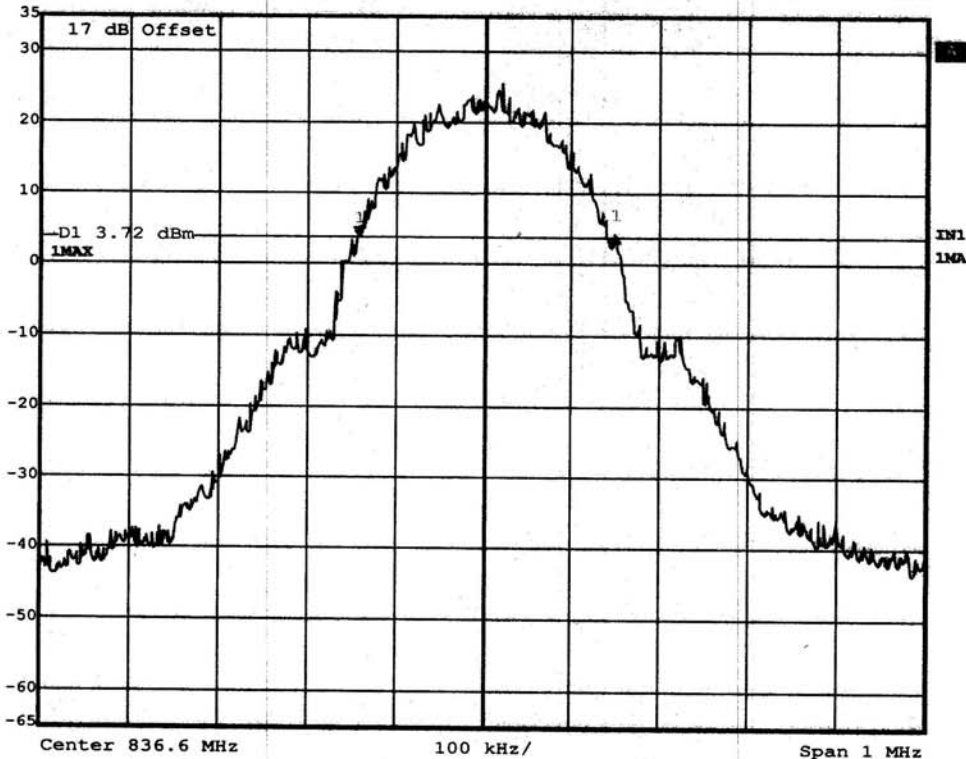
VBW 3 kHz

35 dBm

290.58116232 kHz

SWT 280 ms

Unit dBm



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Test report no.: EMC\_553FCC22-24\_2003

Issue date: 2003-10-23

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**-20dBc BANDWIDTH CHANNEL 251(GSM-850)**



Delta 1 [T1]

RBW 3 kHz RF Att 30 dB

Ref Lvl

-1.18 dB

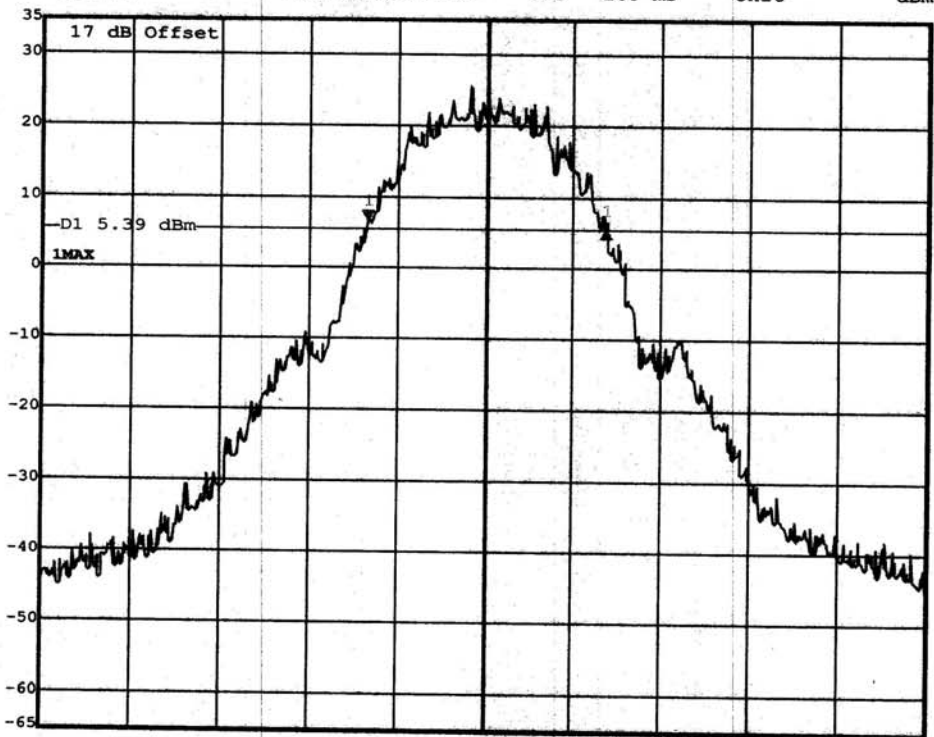
VBW 3 kHz

35 dBm

270.54108216 kHz

SWT 280 ms

Unit dBm



Center 848.8 MHz

100 kHz/

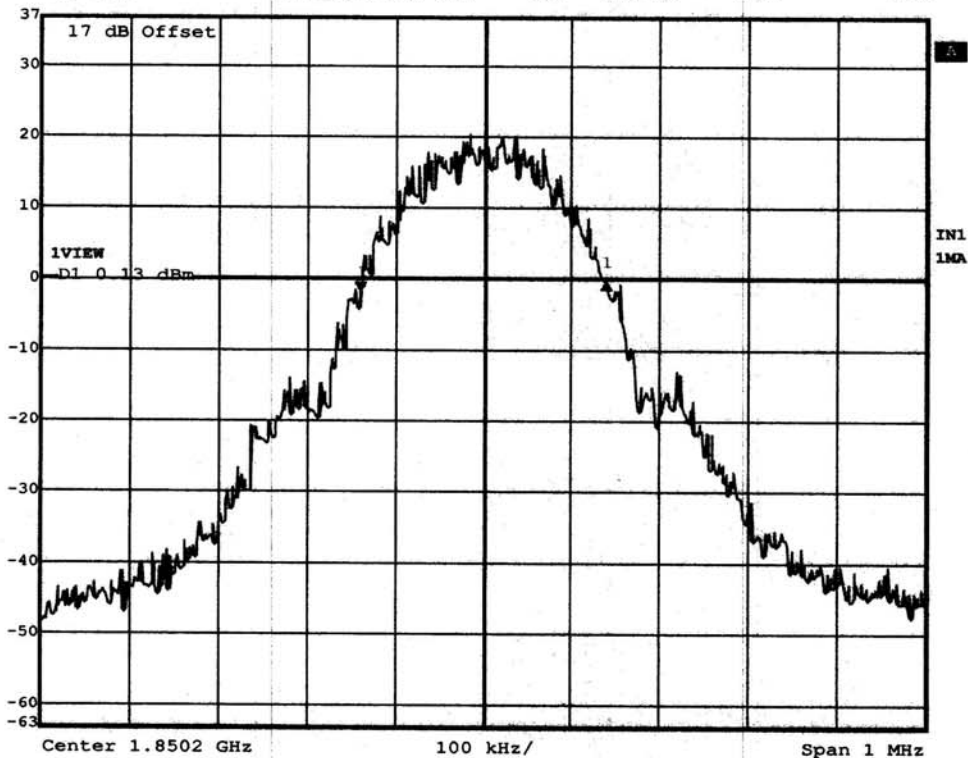
Span 1 MHz

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**-20dBc BANDWIDTH CHANNEL 512(GSM-1900)**



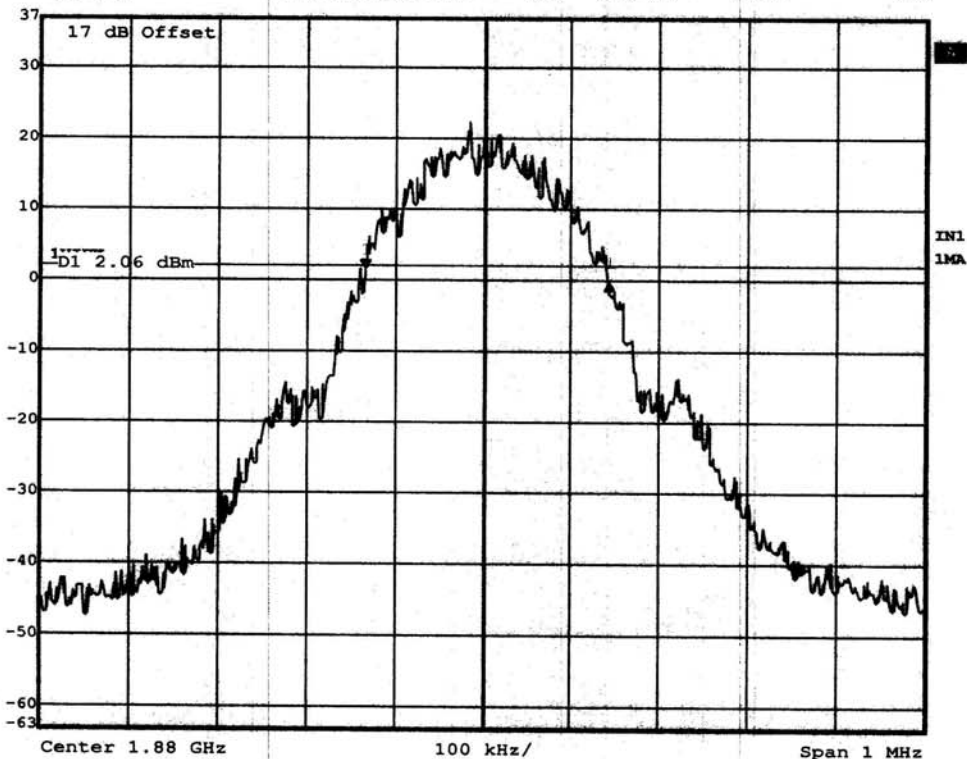
Delta 1 [T1]                      RBW      3 kHz      RF Att      30 dB  
Ref Lvl                              1.63 dB      VBW      3 kHz  
37 dBm                              278.55711423 kHz      SWT      280 ms      Unit              dBm



**-20dBc BANDWIDTH CHANNEL 661(GSM-1900)**



Delta 1 [T1]	RBW	3 kHz	RF Att	30 dB
Ref Lvl	-1.87 dB	VBW	3 kHz	
37 dBm	276.55310621 kHz	SWT	280 ms	Unit dBm

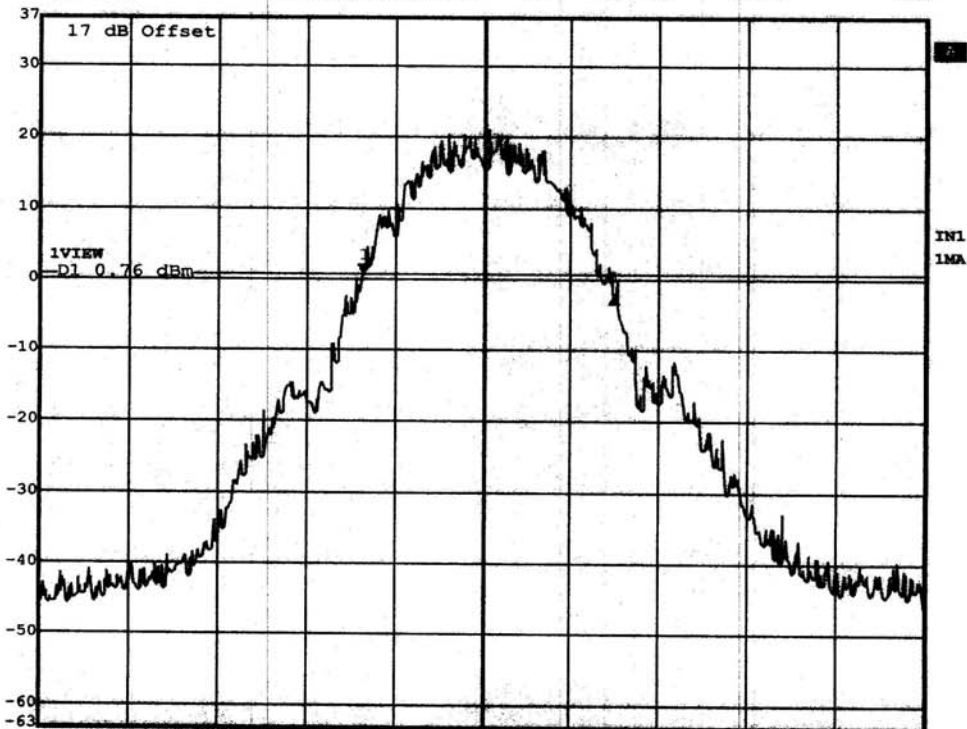




**-20dBc BANDWIDTH CHANNEL 810(GSM-1900)**



Ref Lvl	Delta 1 [T1]	RBW	3 kHz	RF Att	30 dB
37 dBm	-3.02 dB	VBW	3 kHz		
	284.56913828 kHz	SWT	280 ms	Unit	dBm



Center 1.9098 GHz

100 kHz/

Span 1 MHz

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**EMISSION BANDWIDTH**

§24.238(b)

**Emission Bandwidth Results**

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of GSM-850 & GSM-1900 frequency band. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

**-26dBc BANDWIDTH (GSM-850)**

Frequency (MHz)	-26 dBc Bandwidth (kHz)
824.2	316.63
836.6	316.63
848.8	316.63


**-26dBc BANDWIDTH (GSM-1900)**

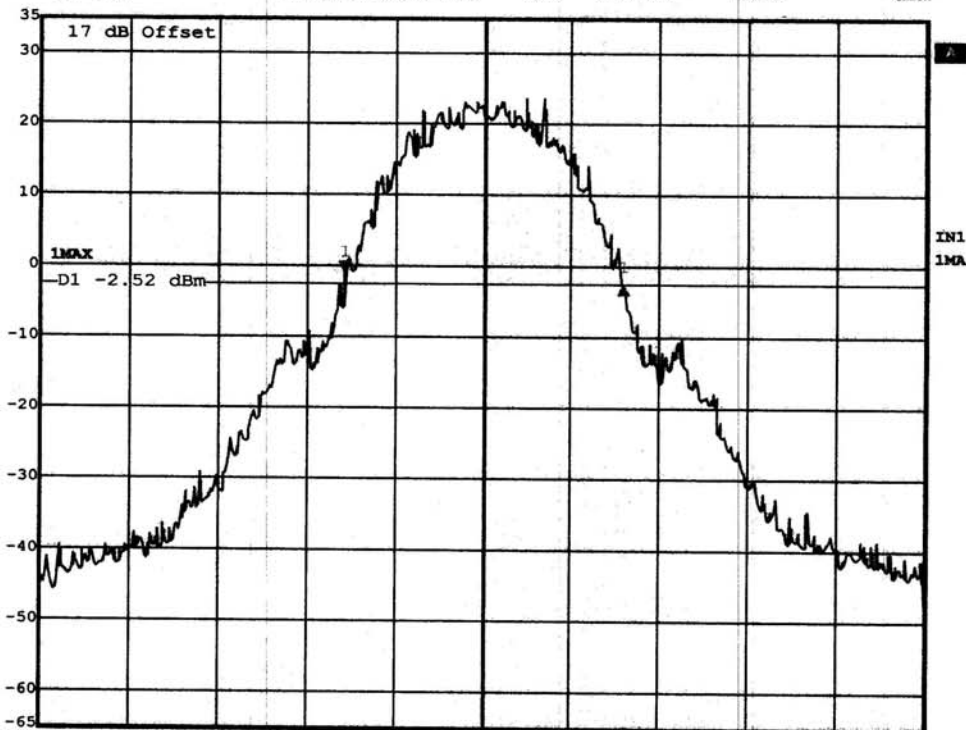
Frequency (MHz)	-26 dBc Bandwidth (kHz)
1850.2	314.62
1880	314.62
1909.8	314.62






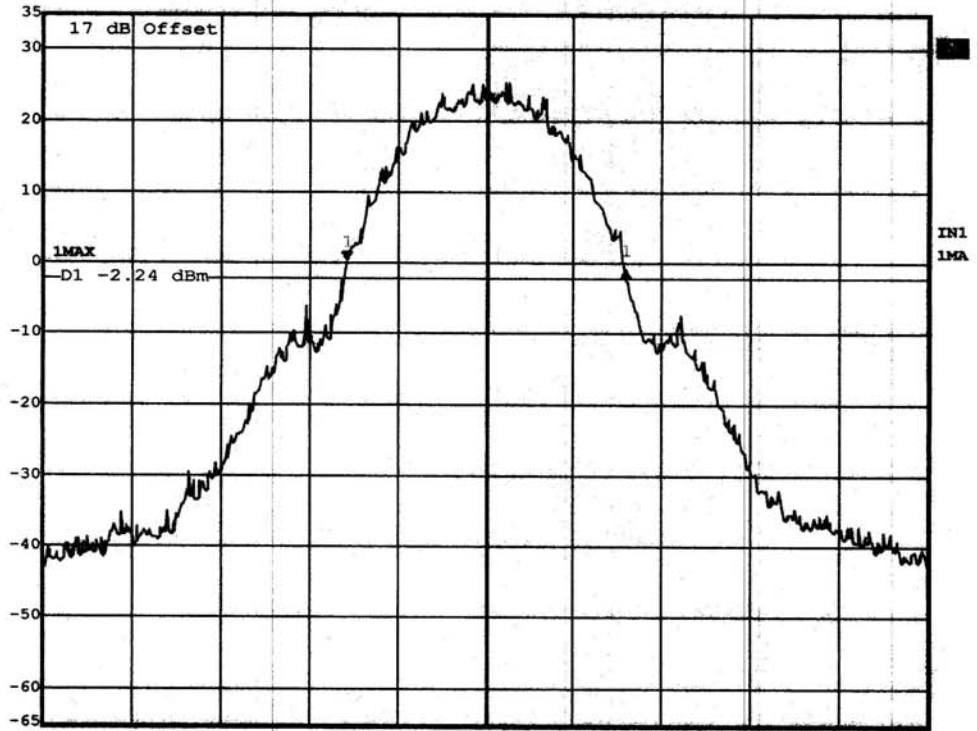
-26dBc BANDWIDTH CHANNEL 128(GSM-850)

 Delta 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl -1.86 dB VBW 3 kHz  
35 dBm 316.63326653 kHz SWT 280 ms Unit dBm



-26dBc BANDWIDTH CHANNEL 190(GSM-850)

 Delta 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl -1.43 dB VBW 3 kHz  
35 dBm 316.63326653 kHz SWT 280 ms Unit dBm



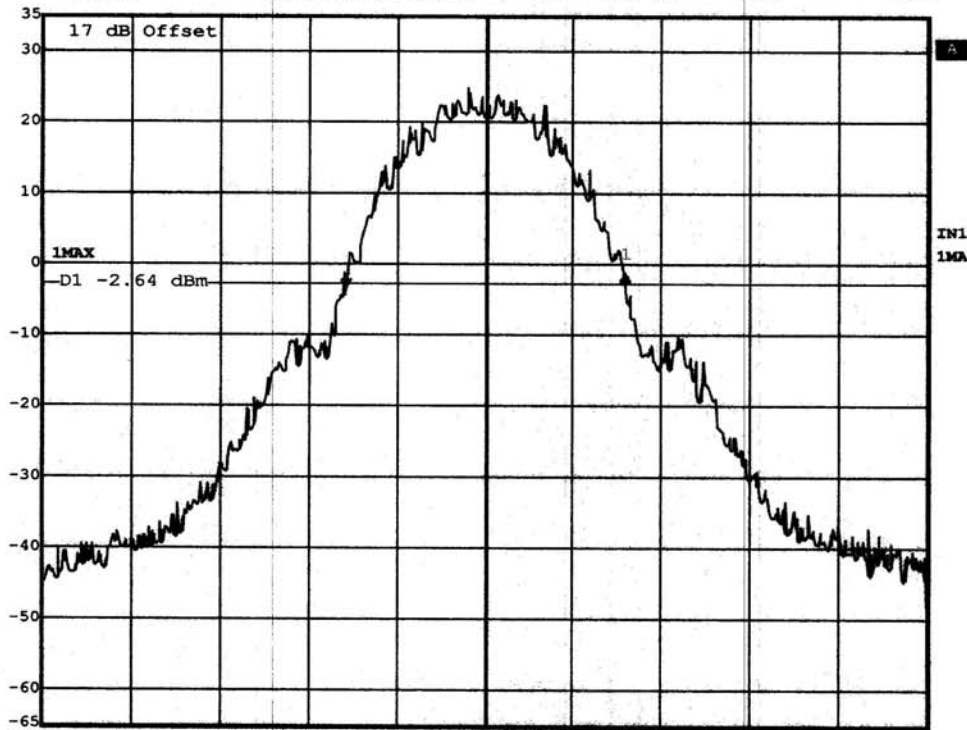
Center 836.6 MHz 100 kHz/ Span 1 MHz

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**-26dBc BANDWIDTH CHANNEL 251(GSM-850)**



Delta 1 [T1]	RBW	3 kHz	RF Att	30 dB
Ref Lvl	2.22 dB	VBW	3 kHz	
35 dBm	316.63326653 kHz	SWT	280 ms	Unit dBm



Center 848.8 MHz

100 kHz/

Span 1 MHz

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-2dBc BANDWIDTH CHANNEL 512(GSM-1900)



Delta 1 [T1]

RBW 3 kHz RF Att 30 dB

Ref Lvl 0.11 dB

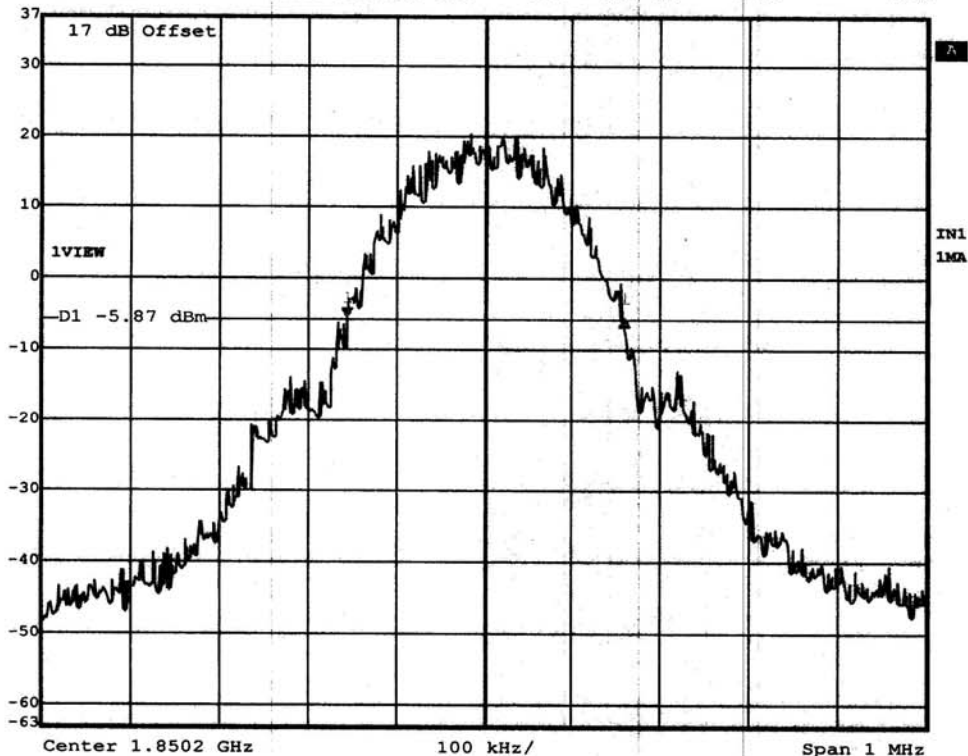
VBW 3 kHz

37 dBm

314.62925852 kHz

SWT 280 ms

Unit dBm



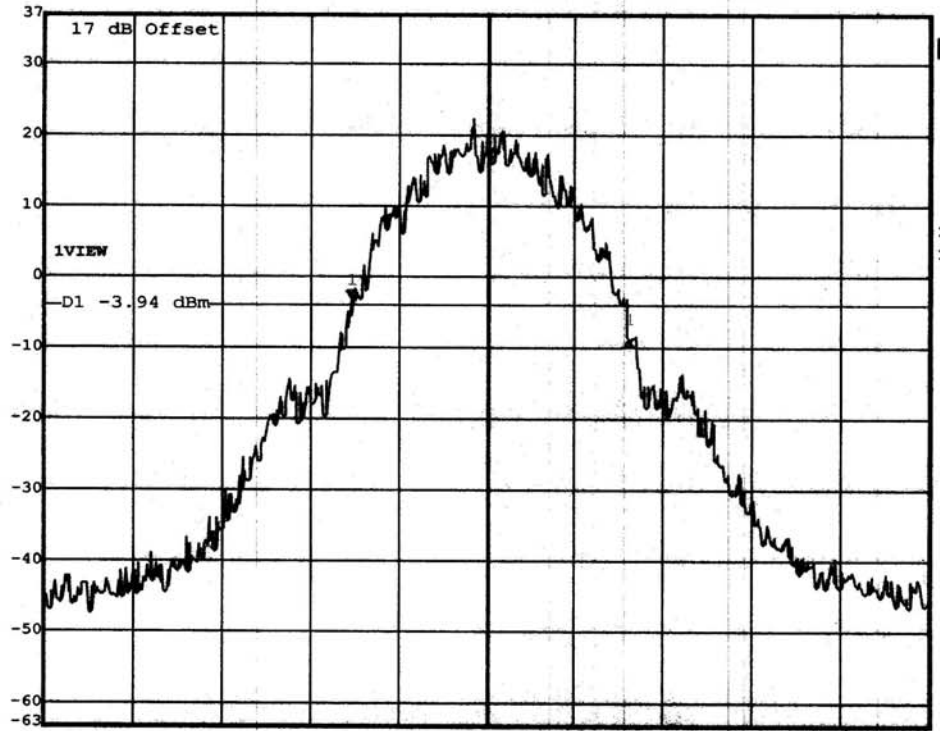
-2dBc BANDWIDTH CHANNEL 661(GSM-1900)



Delta 1 [T1]

RBW 3 kHz RF Att 30 dB  
VBW 3 kHz  
SWT 280 ms Unit dBm

Ref Lvl -5.62 dB  
37 dBm 314.62925852 kHz



Center 1.88 GHz 100 kHz/ Span 1 MHz

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**-26dBc BANDWIDTH CHANNEL 810(GSM-1900)**



Delta 1 [T1]

RBW 3 kHz RF Att 30 dB

Ref Lvl -0.59 dB

VBW 3 kHz

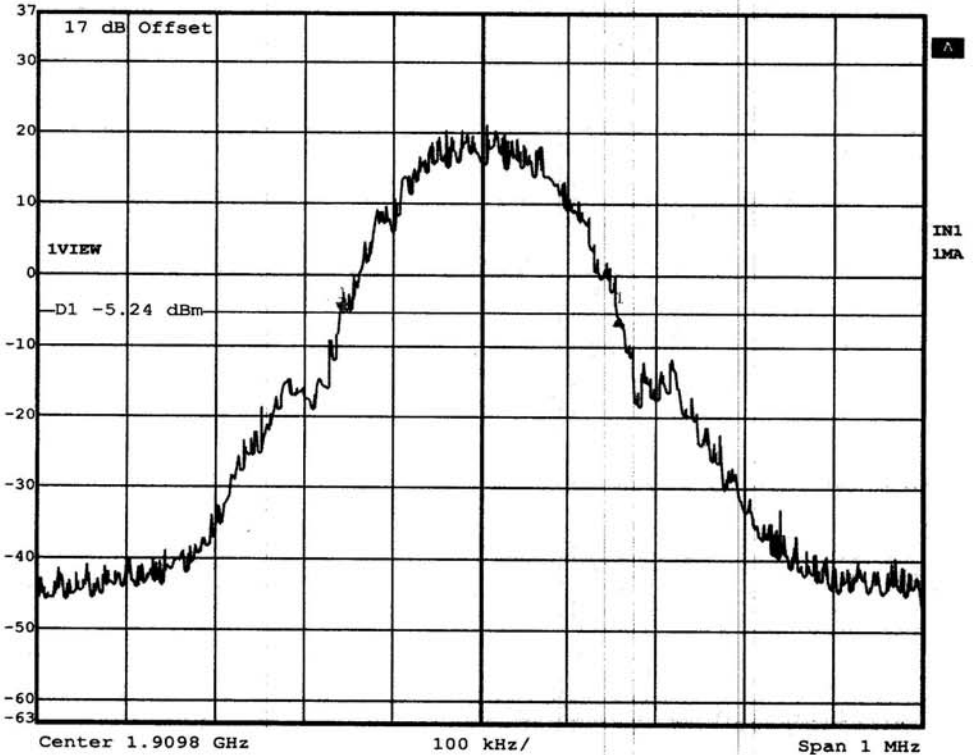
37 dBm

314.62925852 kHz

SWT 280 ms

Unit

dBm



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