

RF Test Report

Report No.: AGC00552180502EE03

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : P20
MANUFACTURER : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Jun. 04, 2018
STANDARD(S) : EN 301 511 V12.5.1: 2017-03
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 04, 2018	Valid	Initial release

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1. TEST REPORT CERTIFICATION

Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	P20
Date of test	May 18, 2018 to May 30, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-2.5G2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 511 V12.5.1. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

The test results of this report relate only to the tested sample identified in this report.

Tested By



Donjon Huang(Huang Dongyang)

May 30, 2018

Reviewed By



Bart Xie(Xie Xiaobin)

Jun. 04, 2018

Approved By



 Forrest Lei(Lei Yonggang)
 Authorized Officer

Jun. 04, 2018

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	P20
Product Type	GSM
Hardware Version	HCT-S590MB-A2
Software Version	CUBOT_P20_8023C_V02_20180504
Frequency Bands	<input checked="" type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> DCS 1800 (EU Frequency) <input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS1900 (none EU Frequency)
Modulation Mode	GMSK, 8PSK
Antenna Type	PIFA Antenna
Antenna Gain	1.0dBi
Power Class	GSM900: 4, DCS1800: 1
GSM Release Version	N/A
GPRS Class	Class 12
SIM Card Description	There are dual-SIM cards for GSM/WCDMA/LTE.

2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX 1 for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafului Technology Co., Ltd.
Test Model	P20
Product Type	GSM
Frequency Bands	GSM 900: 880 -915 MHz (TX); 925 - 960 MHz (RX) DCS1800: 1710 -1785 MHz (TX); 1805-1880 MHz (RX)

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2.2. TYPE OF MOBILE STATION AND ADDITIONAL INFORMATION

Table A.2: Type of Mobile Station (Re. ETSI EN 301 511 Annex A)

Item	Type of Mobile Station	Support	Mnemonic
1	HSCSD Multislot MS	NO	Type_HSCSD_Multislot
2	R-GSM MS	NO	Type_R-GSM
3	Support of GPRS Multislot class on the uplink	YES	Type_GPRS_Multislot_uplink
4	EGPRS	YES	Type_EGPRS
5	EGPRS capable of 8PSK in Uplink, of all Multislot classes	YES	Type_EGPRS_8PSK_uplink
6	ER-GSM MS	NO	Type-GSM
7	DLMC MS	NO	Type DLMC

Type A.3: Additional information (Re. ETSI EN 301 511 Annex A)

Item	Additional Information	Support	Mnemonic
1	Telephony	YES	TSPC_Serv_TS11
2	Permanent Antenna Connector	YES	TSPC_AddInfo_PermAntenna

Note: Telephony means make a phone call.

3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site-1	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location 1	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Location-2	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

Note: Blocking and spurious response test within the scope of TAF approval.

LIST OF EQUIPMENTS USED OF AGC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Mar. 01, 2018	Feb. 28, 2019
2	CMU200	R&S	120237	Mar. 01, 2018	Feb. 28, 2019
3	Wireless communication test set 8960	Agilent	GB46200384	July 16,2017	July 15,2018
4	Power Splitter 11636A	Agilent	34	Sep.21,2017	Sep.20,2018
5	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
6	Vector Signal Generator SMU200A	R&S	104332	Sep.21,2017	Sep.20,2018
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	June 29, 2017	June 28, 2018
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep. 21, 2017	Sep. 20, 2018
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep. 21, 2017	Sep. 20, 2018
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Mar. 01, 2018	Feb. 28, 2019
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	RF SHIELD BOX	R&S	1204.7008K02- 102590-EE	Mar. 01, 2018	Feb. 28, 2019
13	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug.24,2017	Aug.23,2018
14	Vibration Source SCU-200	SUSHI	3000-40-07	Mar. 01, 2018	Feb. 28, 2019
15	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
16	EMI Test Receiver ESCI	R&S	100694	Mar. 01, 2018	Feb. 28, 2019
17	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
18	Trilog Broadband Antenna VULB 9168	SCHWARZBECK	494	Mar. 01, 2018	Feb. 28, 2020

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	LOOP ANTENNA SAS-562B	A.H	/	Mar. 01, 2018	Feb. 28, 2020
20	Artificial Mains Network ENV4200	R&S	101116	July 16,2017	July 15,2018
21	Artificial Mains Network ENV216	R&S	101242	July 16,2017	July 15,2018
22	Filter Bank Notch 1(880-915MHz)	MICRO-TRONIC S	010	Mar. 01, 2018	Feb. 28, 2019
23	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONIC S	009	Mar. 01, 2018	Feb. 28, 2019
24	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONIC S	008	Mar. 01, 2018	Feb. 28, 2019

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4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Radio Frequency, $U_c = \pm 1 \times 10^{-5}$
- Uncertainty of total RF power, conducted, $U_c = \pm 1.5\text{dB}$
- Uncertainty of RF power density, conducted, $U_c = \pm 3\text{dB}$
- Uncertainty of spurious emissions, conducted, $U_c = \pm 3\text{dB}$
- Uncertainty of spurious emissions, radiated, $U_c = \pm 6\text{dB}$
- Uncertainty of Temperature: $\pm 1^\circ\text{C}$
- Uncertainty of Humidity: $\pm 5\%$
- Uncertainty of DC and low frequency voltages: $\pm 3\%$

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5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 511	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Specific reference documents for testing:

No.	Identity	Document Title
2	ETSI TS 151 010-1	3 rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	20 ... 25 °C
Relative Humidity	30 ... 75 %
Air Pressure	980 ... 1020 kPa
Adapter Test Model Name	P20
Details of Power Supply (Rated Input)	AC100-240V, 50/60Hz, 0.3A
Details of Power Supply (Rated Output)	DC5.0V,2000mA
Extreme Temperature	Low Temperature (LT) = -20°C High Temperature (HT) = 55°C
Extreme Voltage of the EUT	Normal Voltage= DC 3.80V Limit Voltage = DC 4.35V
Note: The Limit Voltage 4.35V was declared by manufacturer, The EUT couldn't be operate normally with higher voltage.	

5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column "Verdict" for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
N/A	Test case not applicable for the EUT, see the column "Note" for detailed

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5.4. TEST RESULTS LIST
Table A.1: The EN Requirements Table (EN-RT) (Re. ETSI EN 301 511 Annex A) for SIM Card 1

Test Case (ETSI TS 151010-1)	Test Case (EN 301 511)	Parameter	GSM 900		GSM 1800		Note	
			Sample	Result	Sample	Result		
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
13.1	4.2.1	Transmitter - Frequency error and phase error						
		NT / NV	A01	PASS	A01	PASS		
		LT / LV	A01	PASS	A01	PASS		
		LT / HV	A01	PASS	A01	PASS		
		HT / LV	A01	PASS	A01	PASS		
		HT / HV	A01	PASS	A01	PASS		
		Vibration X-axis	A01	PASS	A01	PASS		
		Vibration Y-axis	A01	PASS	A01	PASS		
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions						
		NT / NV	A01	PASS	A01	PASS		
		LT / LV	A01	PASS	A01	PASS		
		LT / HV	A01	PASS	A01	PASS		
		HT / LV	A01	PASS	A01	PASS		
		HT / HV	A01	PASS	A01	PASS		

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13.3	4.2.5	Transmitter output power and burst timing				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
13.4	4.2.6	Transmitter - Output RF spectrum				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT / HV	A01	PASS	A01	PASS
		Vibration X-axis	A01	PASS	A01	PASS
Vibration Y-axis	A01	PASS	A01	PASS		
		Vibration Z-axis	A01	PASS	A01	PASS
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT/HV	A01	PASS	A01	PASS
13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration				
		NT / NV	A01	PASS	A01	PASS
		LT / LV	A01	PASS	A01	PASS
		LT / HV	A01	PASS	A01	PASS
		HT / LV	A01	PASS	A01	PASS
		HT/HV	A01	PASS	A01	PASS
14.2.1	4.2.42	Reference sensitivity - TCH/FS				
		NT / NV	A01	PASS	A01	PASS

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		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.2.3	4.2.43	Reference sensitivity - FACCH/F					
		NT / NV	A01	PASS	A01	PASS	
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.6.1	4.2.32	Intermodulation rejection-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.8.1	4.2.35	AM suppression-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.5.1	4.2.38	Adjacent channel rejection-speech channels (TCH/FS)					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.7.1	4.2.20	Blocking and spurious response – speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.3	4.2.40	Adjacent channel rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.4	4.2.34	Intermodulation rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
13.17.2	4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.3	4.2.28	EGPRS Transmitter output power					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	

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Table A.2: The EN Requirements Table (EN-RT) (Re. ETSI EN 301 511 Annex A) for SIM Card 2

Test Case (ETSI TS 151010-1)	Test Case (EN 301 511)	Parameter	GSM 900		GSM 1800		Note	
			Sample	Result	Sample	Result		
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode						
		NT / NV	A01	PASS	A01	PASS		
		NT / LV	A01	PASS	A01	PASS		
		NT / HV	A01	PASS	A01	PASS		
13.1	4.2.1	Transmitter - Frequency error and phase error						
		NT / NV	A01	PASS	A01	PASS		
		LT / LV	A01	PASS	A01	PASS		
		LT / HV	A01	PASS	A01	PASS		
		HT / LV	A01	PASS	A01	PASS		
		HT / HV	A01	PASS	A01	PASS		
		Vibration X-axis	A01	PASS	A01	PASS		
		Vibration Y-axis	A01	PASS	A01	PASS		
Vibration Z-axis	A01	PASS	A01	PASS				
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions						
		NT / NV	A01	PASS	A01	PASS		
		LT / LV	A01	PASS	A01	PASS		
		LT / HV	A01	PASS	A01	PASS		
		HT / LV	A01	PASS	A01	PASS		
		HT / HV	A01	PASS	A01	PASS		
13.3	4.2.5	Transmitter output power and burst timing						

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		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
13.4	4.2.6	Transmitter - Output RF spectrum					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT / HV	A01	PASS	A01	PASS	
		Vibration X-axis	A01	PASS	A01	PASS	
		Vibration Y-axis	A01	PASS	A01	PASS	
Vibration Z-axis	A01	PASS	A01	PASS			
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT/HV	A01	PASS	A01	PASS	
13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration					
		NT / NV	A01	PASS	A01	PASS	
		LT / LV	A01	PASS	A01	PASS	
		LT / HV	A01	PASS	A01	PASS	
		HT / LV	A01	PASS	A01	PASS	
		HT/HV	A01	PASS	A01	PASS	
14.2.1	4.2.42	Reference sensitivity - TCH/FS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
14.2.3	4.2.43	Reference sensitivity - FACCH/F					
		NT / NV	A01	PASS	A01	PASS	
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.6.1	4.2.32	Intermodulation rejection-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.8.1	4.2.35	AM suppression-speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.5.1	4.2.38	Adjacent channel rejection-speech channels (TCH/FS)					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.7.1	4.2.20	Blocking and spurious response – speech channels					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.3	4.2.40	Adjacent channel rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.4	4.2.34	Intermodulation rejection - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	

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		NT / HV	A01	PASS	A01	PASS	
13.17.2	4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.3	4.2.28	EGPRS Transmitter output power					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration					
		NT / NV	A01	PASS	A01	PASS	
		NT / LV	A01	PASS	A01	PASS	
		NT / HV	A01	PASS	A01	PASS	

Note: The worst test case is SIM Card 2.

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Appendix A. Transmitter - Frequency error and phase error

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

RMS phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	5	0.3	0.4	0.4	PASS
	19	0.3	0.4	0.4	PASS
When the MS is being vibrated	5	0.4	0.4	0.3	PASS
	19	0.3	0.4	0.4	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	5	1.0	1.2	1.3	PASS
	19	1.0	1.2	1.1	PASS
When the MS is being vibrated	5	1.3	1.2	1.0	PASS
	19	1.1	1.2	1.1	PASS

frequency error(Hz)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TL VH	5	14	12	10	PASS
	19	14	12	13	PASS
When the MS is being vibrated	5	11	9	12	PASS
	19	13	12	14	PASS

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DCS1800

RMS phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TH VL	0	0.5	0.5	0.5	PASS
	15	0.5	0.4	0.5	PASS
When the MS is being vibrated	0	0.4	0.4	0.4	PASS
	15	0.5	0.5	0.5	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TL VL	0	1.5	1.9	1.5	PASS
	15	1.6	1.4	1.6	PASS
When the MS is being vibrated	0	1.6	1.5	1.6	PASS
	15	1.7	1.6	1.6	PASS

frequency error(Hz)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	0	31	22	30	PASS
	15	34	35	34	PASS
When the MS is being vibrated	0	31	23	28	PASS
	15	32	26	32	PASS

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Appendix B. Frequency error under multipath and interference conditions

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

Fading set	Test conditions	Power control LEVEL	Result			
			GSM900			
			ARFCN			
			LCH	MCH	HCH	Result
RA250	TLVL	5	11	12	13	PASS
		19	13	15	15	PASS
HT100	TLVH	5	12	10	10	PASS
		19	11	12	13	PASS
TU50	THVH	5	11	12	12	PASS
		19	13	12	14	PASS
TU3	THVL	5	12	12	14	PASS
		19	13	11	16	PASS

DCS1800

Fading set	Test conditions	Power control LEVEL	Result			
			DCS1800			
			ARFCN			
			LCH	MCH	HCH	Result
RA130	THVH	0	27	33	38	PASS
		15	34	33	39	PASS
HT100	THVL	0	29	32	36	PASS
		15	29	37	41	PASS
TU50	TLVL	0	26	32	35	PASS
		15	31	37	42	PASS
TU1.5	THVL	0	24	32	37	PASS
		15	33	36	40	PASS

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Appendix C. Frequency error and phase error in GPRS multislot configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

RMS phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	5	0.3	0.4	0.4	PASS
	19	0.4	0.4	0.4	PASS
When the MS is being vibrated	5	0.4	0.4	0.4	PASS
	19	0.4	0.3	0.4	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	5	1.3	1.2	1.3	PASS
	19	1.2	1.1	1.2	PASS
When the MS is being vibrated	5	1.4	1.1	1.3	PASS
	19	1.4	1.1	1.2	PASS

frequency error(Hz)	Power control LEVEL	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
TH VH	5	11	9	11	PASS
	19	14	10	15	PASS
When the MS is being vibrated	5	12	9	12	PASS
	19	12	10	14	PASS

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DCS1800

RMS phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TL VH	0	0.5	0.4	0.5	PASS
	15	0.5	0.4	0.5	PASS
When the MS is being vibrated	0	0.6	0.4	0.5	PASS
	15	0.5	0.4	0.5	PASS

Peak phase error(degree)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TH VL	0	2.3	1.6	1.7	PASS
	15	1.8	2.0	2.2	PASS
When the MS is being vibrated	0	2.0	1.5	1.7	PASS
	15	1.7	1.7	2.5	PASS

frequency error(Hz)	Power control LEVEL	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
TL VL	0	31	26	36	PASS
	15	35	30	38	PASS
When the MS is being vibrated	0	30	32	35	PASS
	15	35	36	39	PASS

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Appendix D. Transmitter output power and burst timing

Note: All the modes had been tested, but only the worst data recorded in the report.

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TL,VL	5	31.55	31.44	31.46	PASS
	12	18.03	18.02	18.12	PASS
	19	3.53	4.00	4.70	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TL,VL	0	30.76	30.83	30.75	PASS
	8	14.92	15.01	15.04	PASS
	15	0.90	1.02	0.99	PASS

B. Power VS Time

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TL,VL	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TL,VL	0	PASS	PASS	PASS

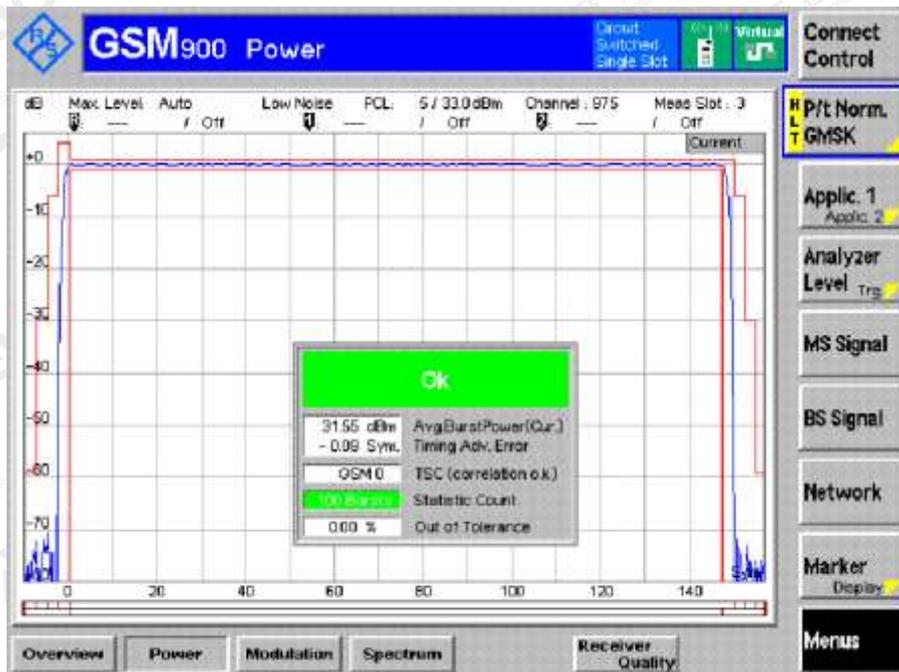
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	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

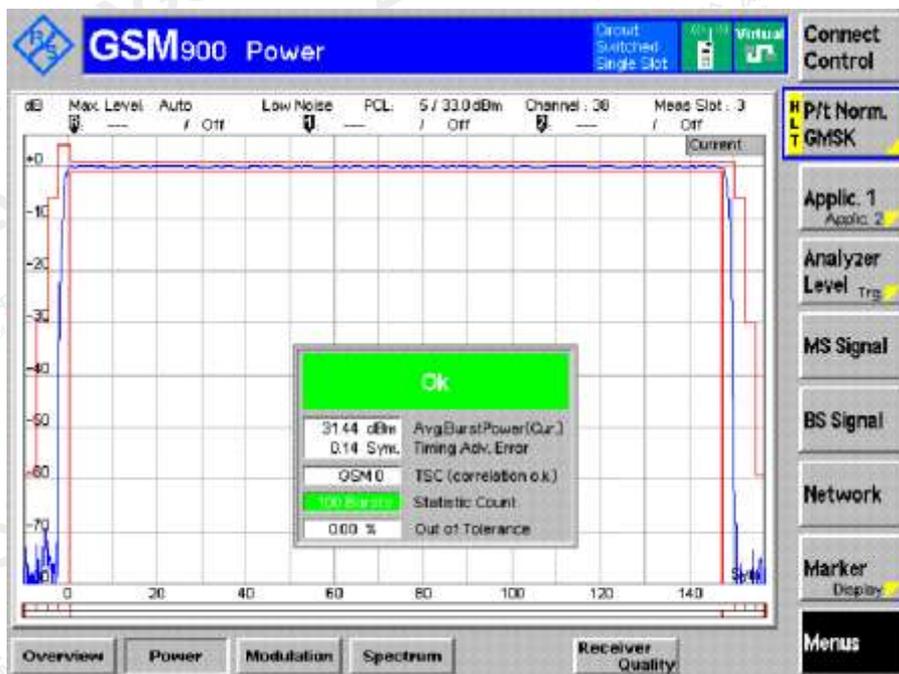
Graphs of output power and burst timing

GSM 900 TL,VL

Channel LCH PCL 5

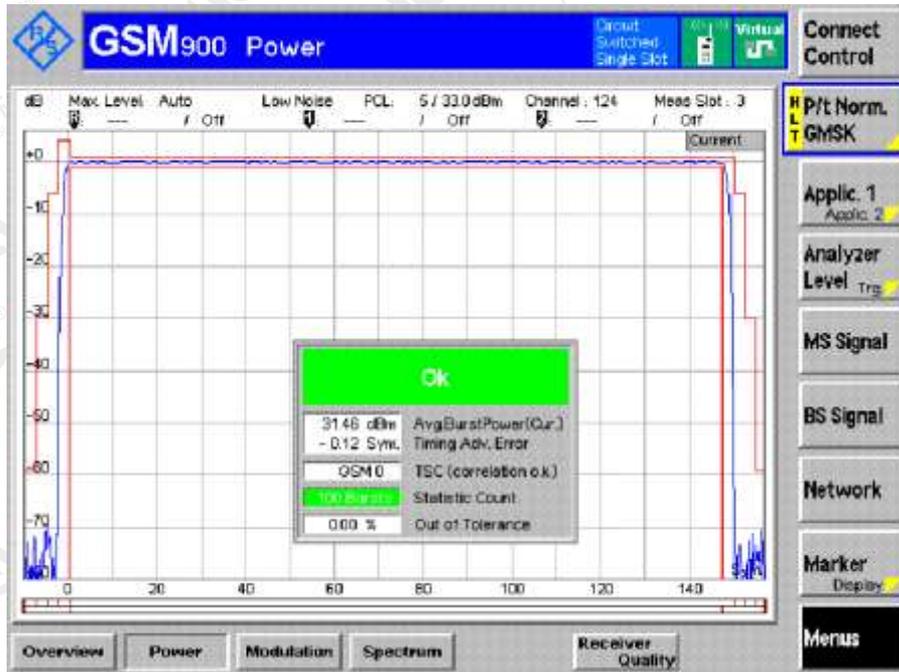


Channel MCH PCL 5

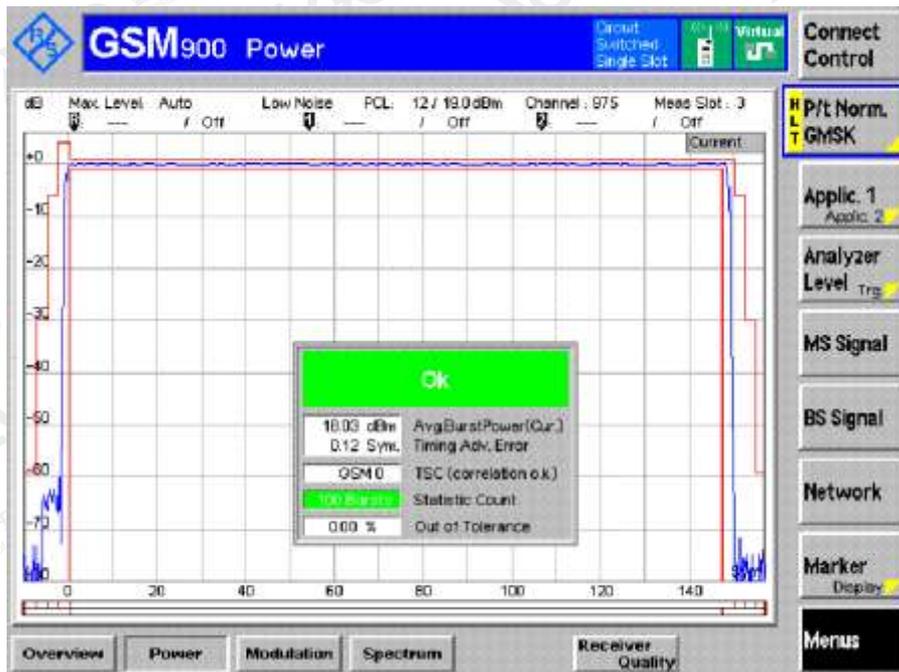


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Channel HCH PCL 5

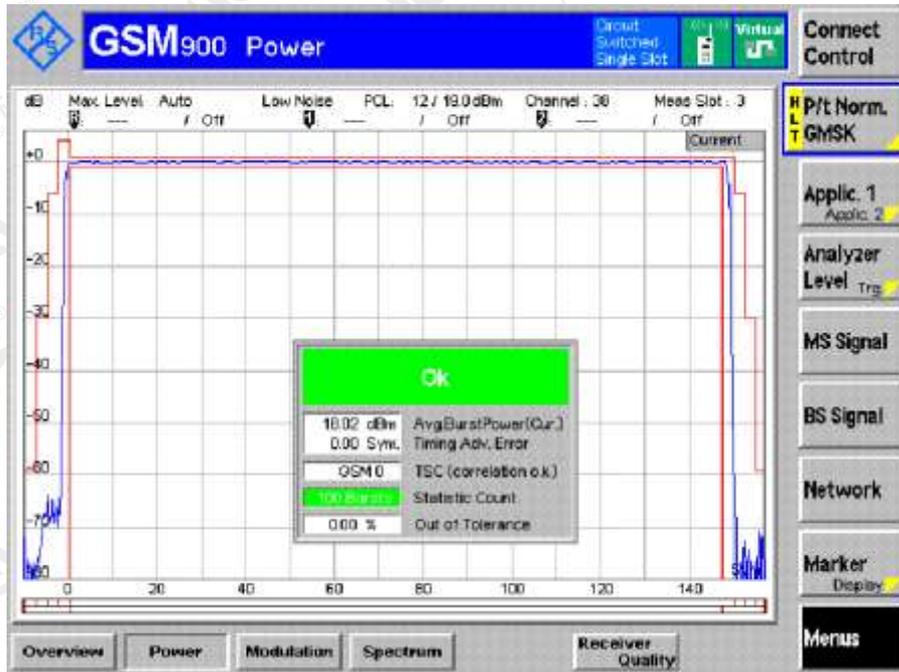


Channel LCH PCL 12

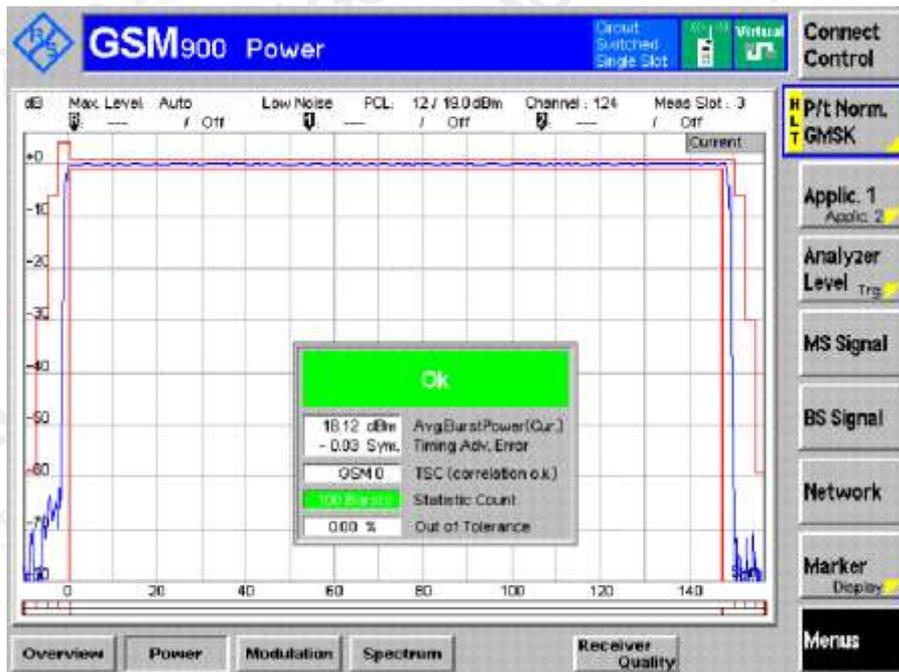


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Channel MCH PCL 12

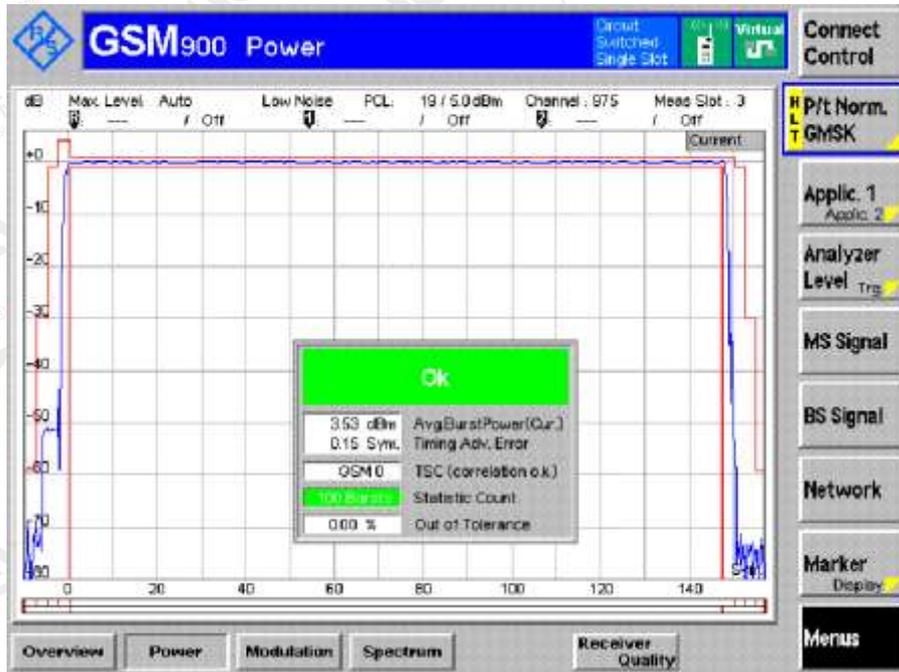


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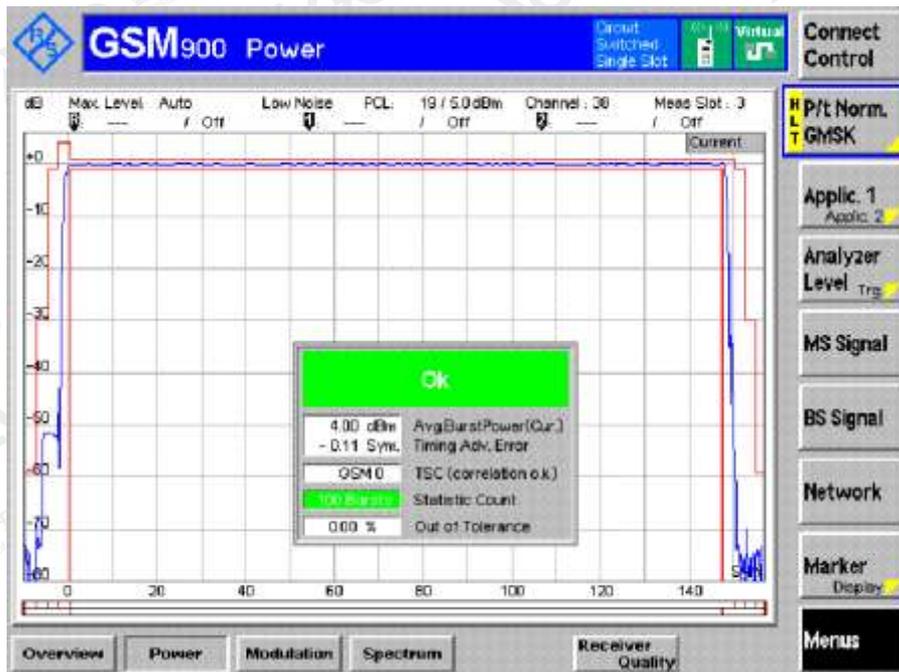


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Channel LCH PCL 19

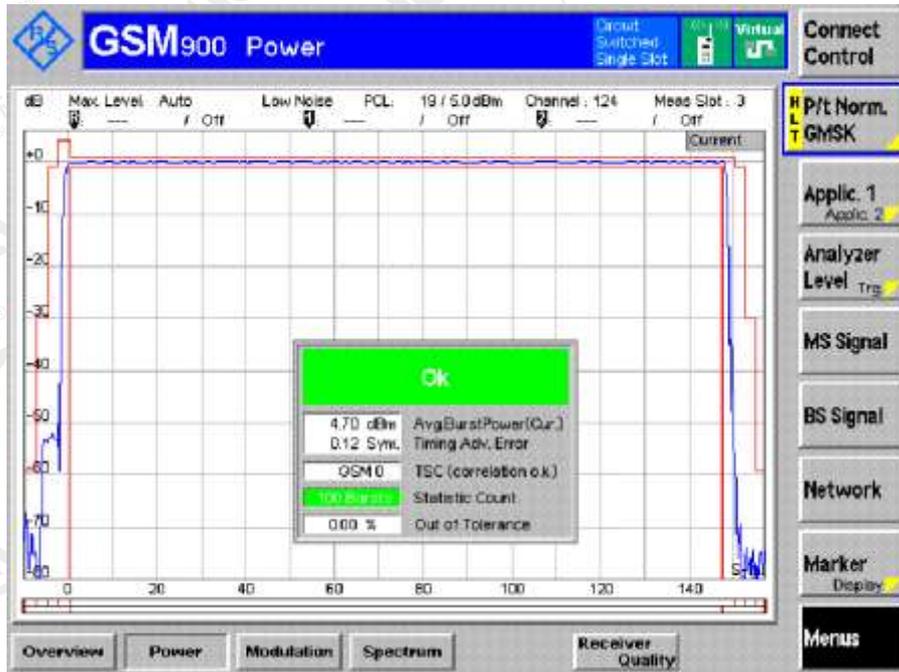


Channel MCH PCL 19



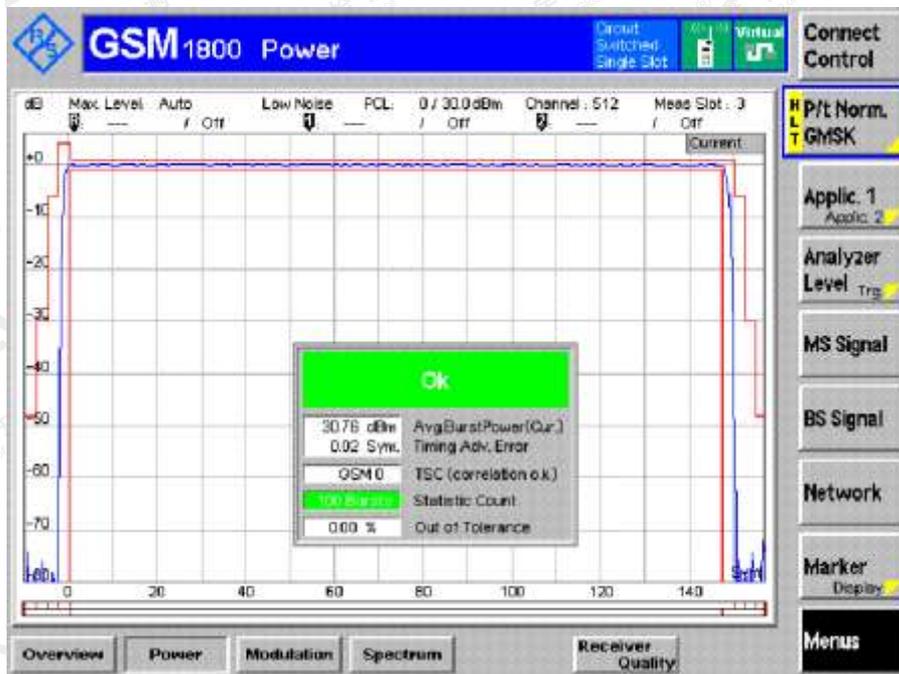
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Channel HCH PCL 19



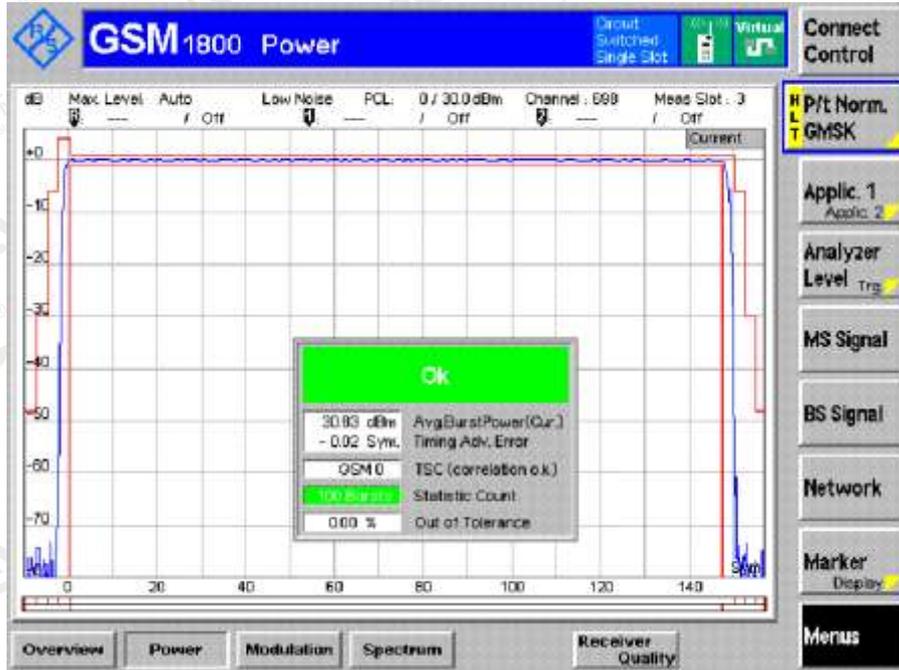
DCS1800 TL,VL

Channel LCH PCL 0

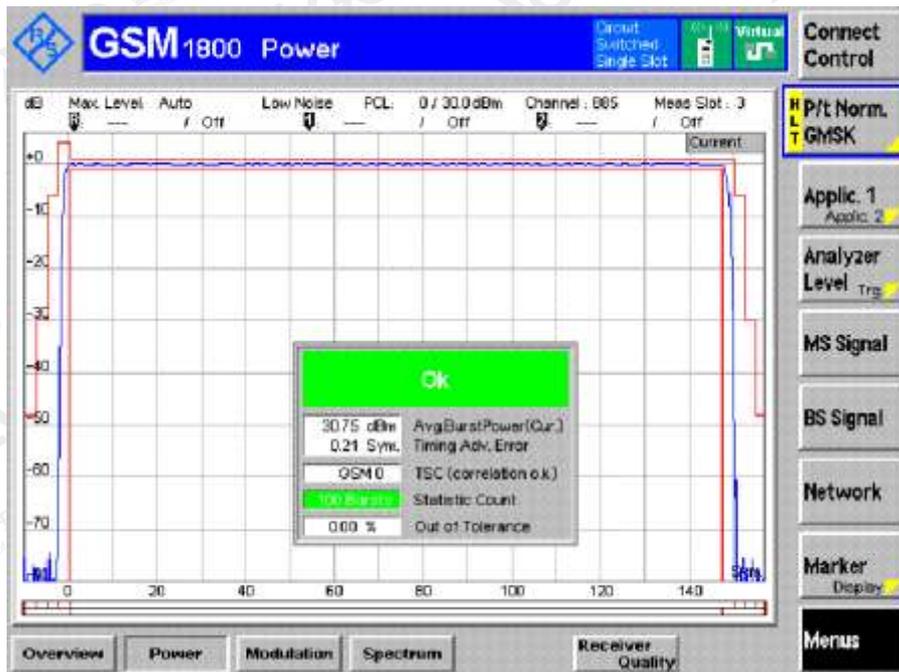


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Channel MCH PCL 0

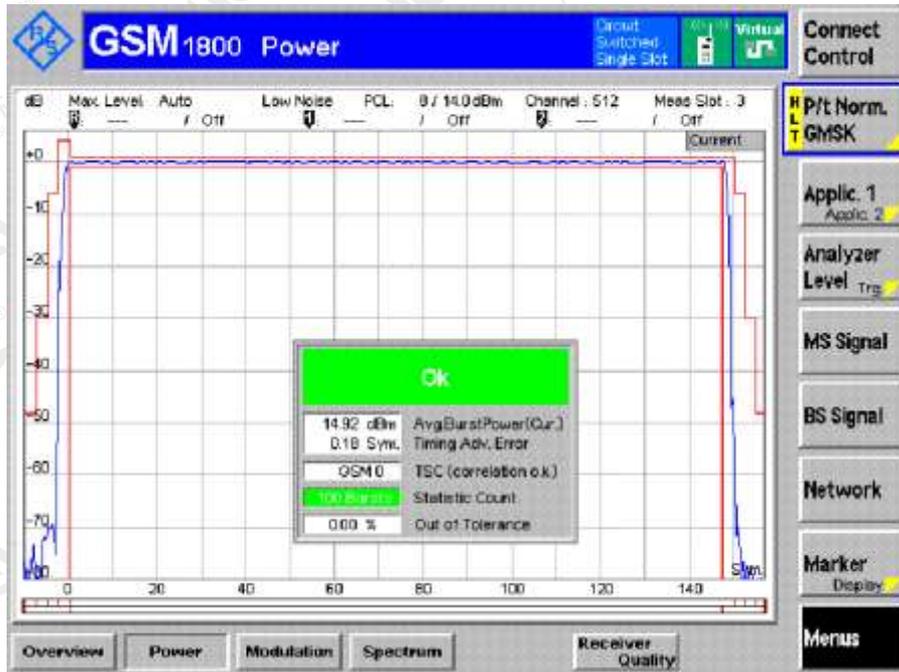


Channel HCH PCL 0

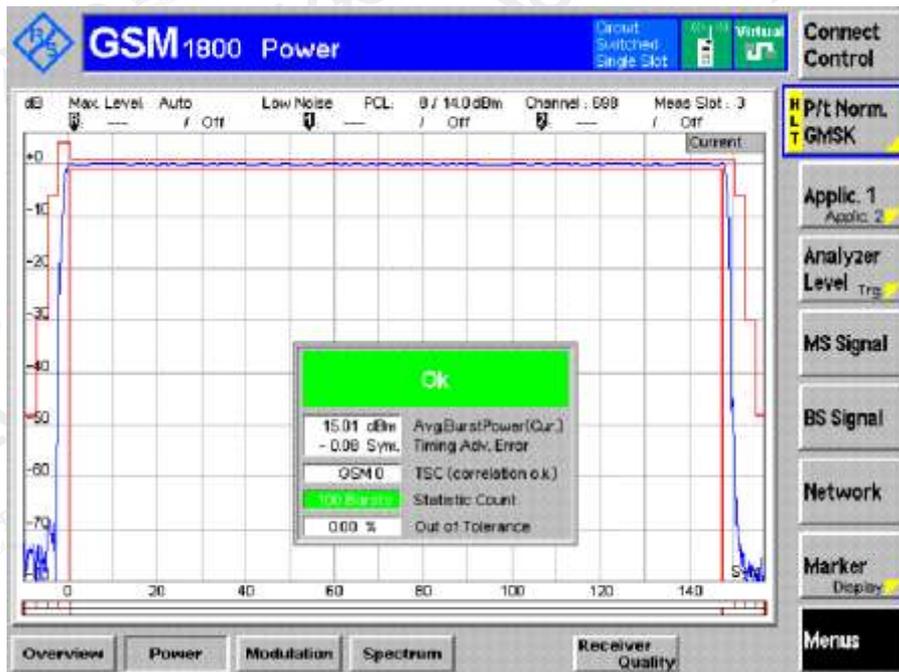


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Channel LCH PCL 8

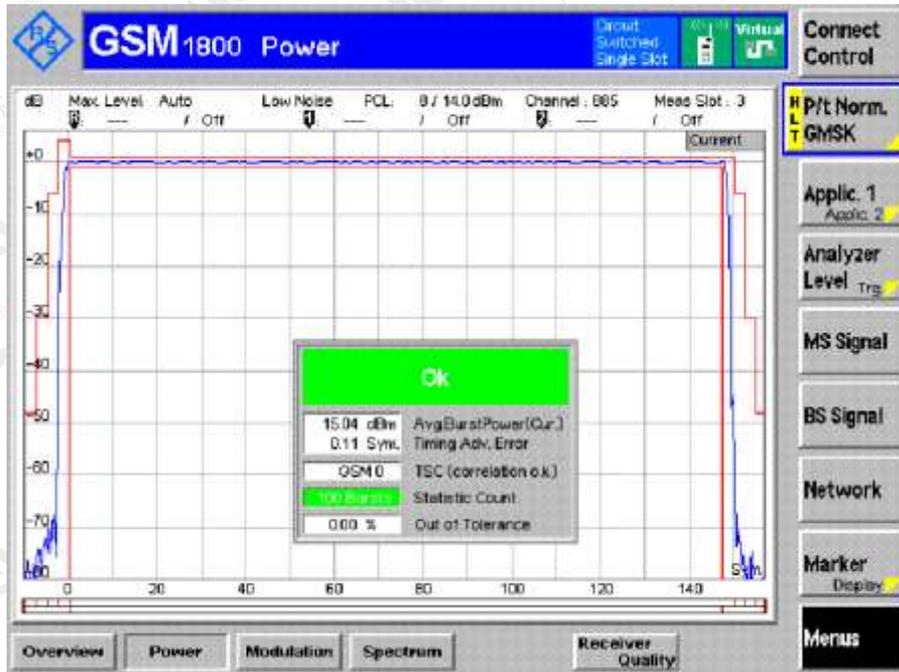


Channel MCH PCL 8

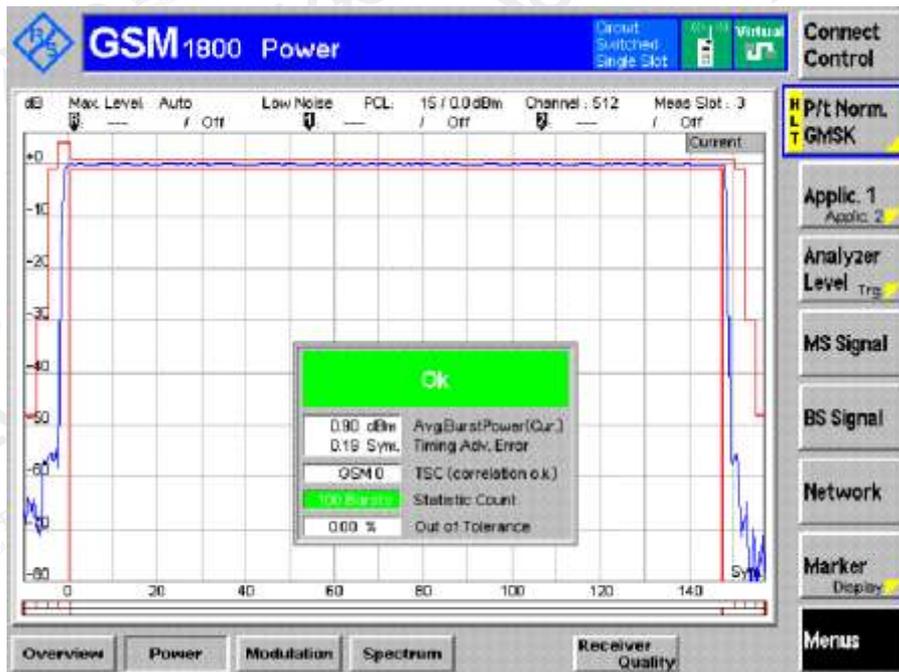


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Channel HCH PCL 8

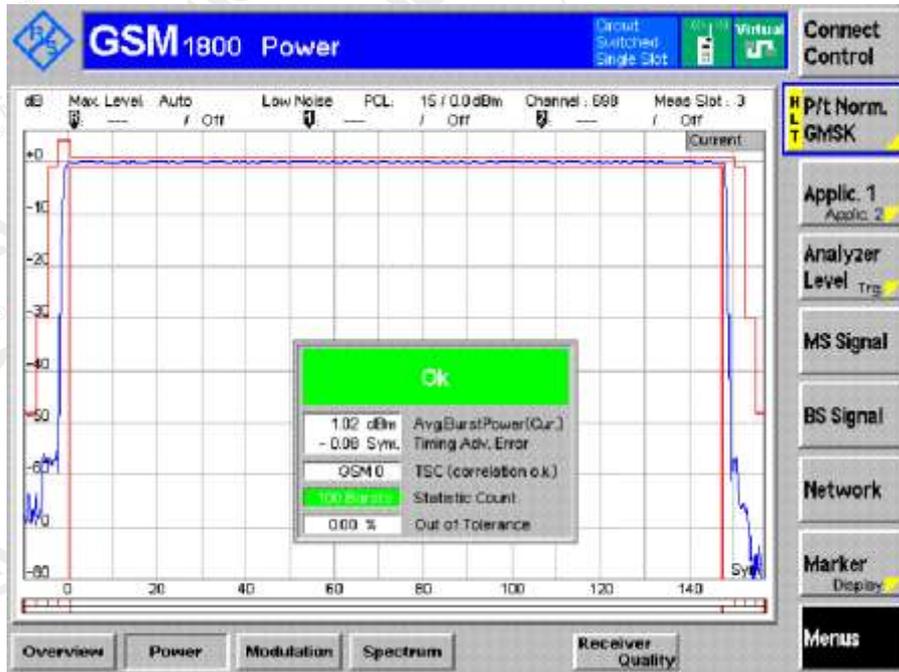


Channel LCH PCL 15

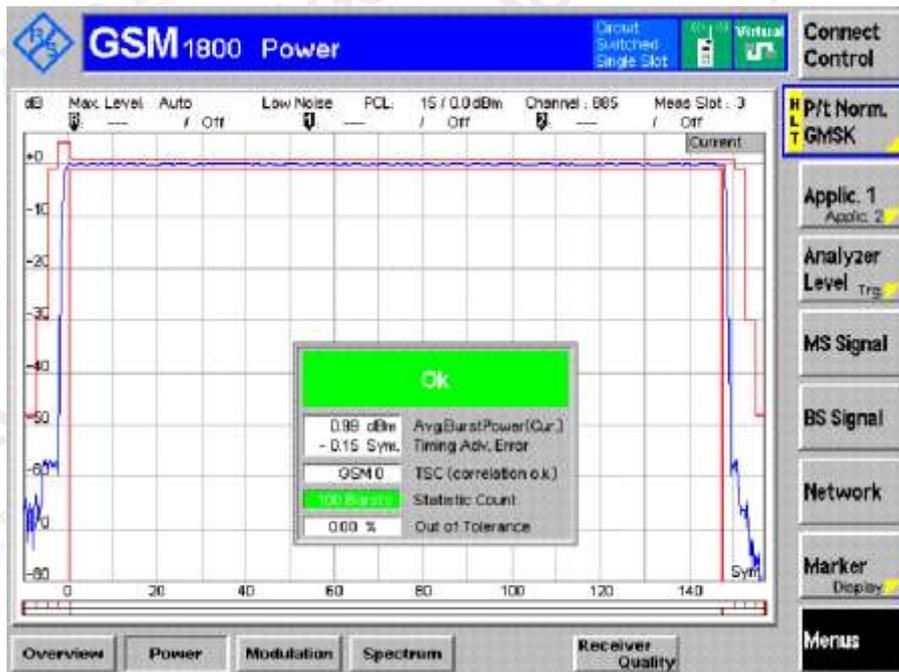


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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix E. Transmitter – Output RF spectrum

Note: All the modes had been tested, but only the worst data recorded in the report.

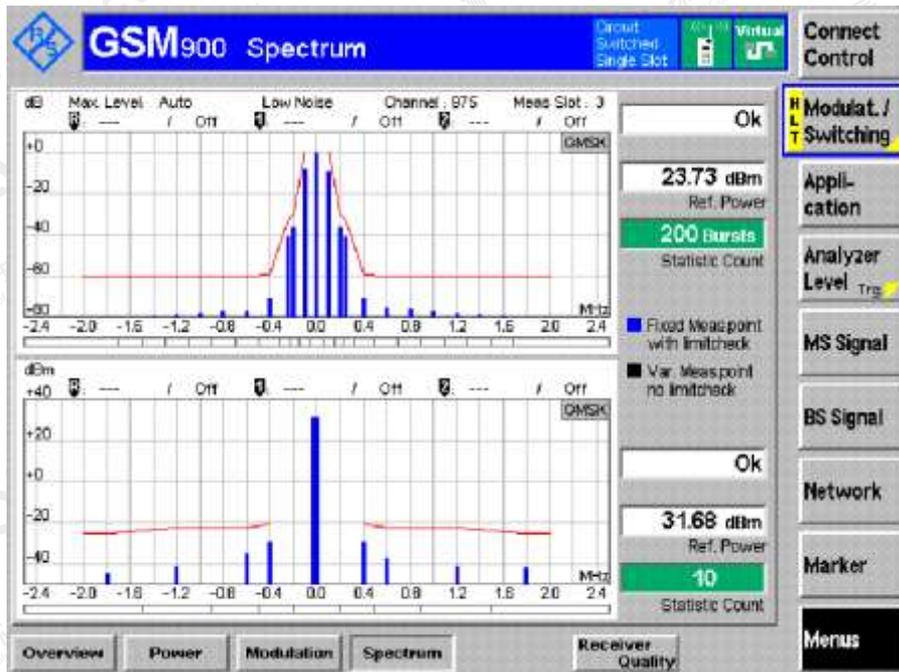
Modulation & switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TH,VH	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation & switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TH,VH	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum

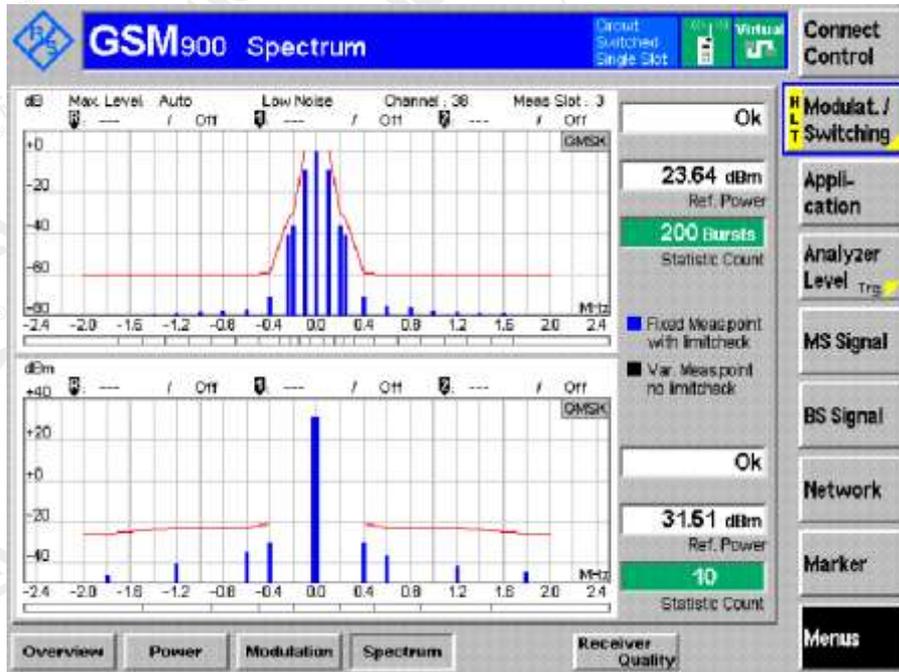
GSM 900 TH,VH

Channel LCH PCL 5

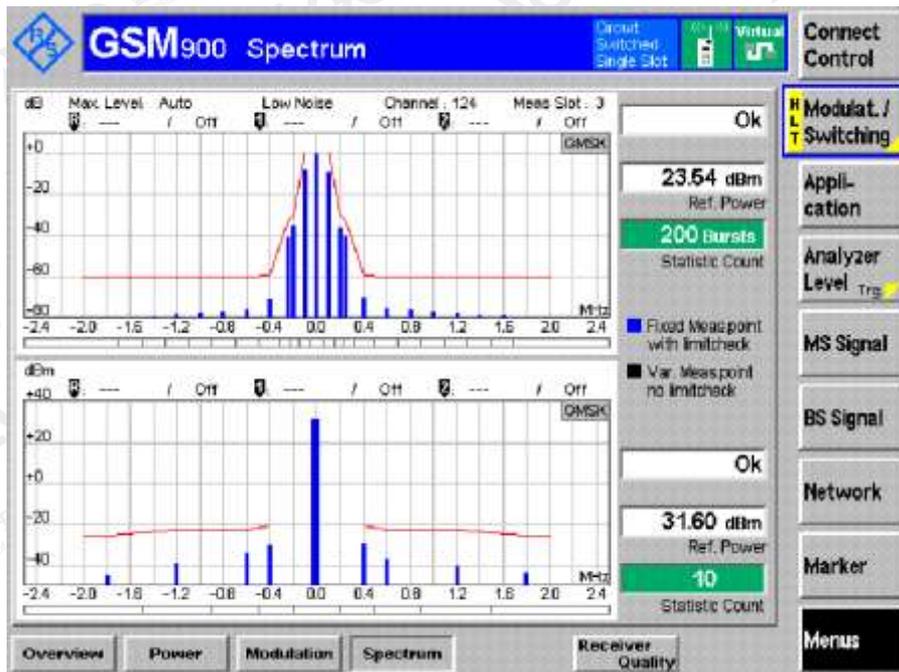


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Channel MCH PCL 5

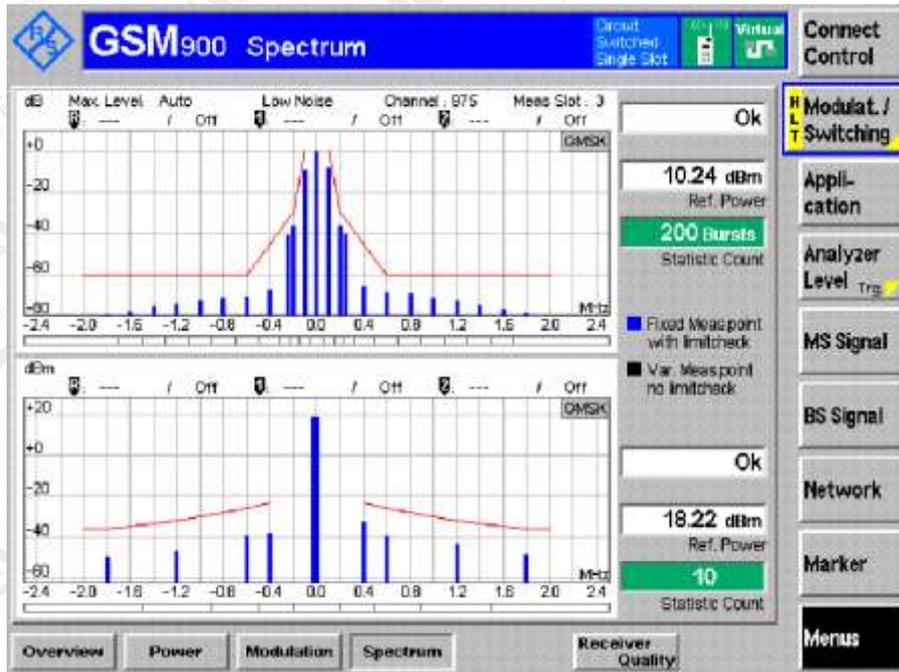


Channel HCH PCL 5

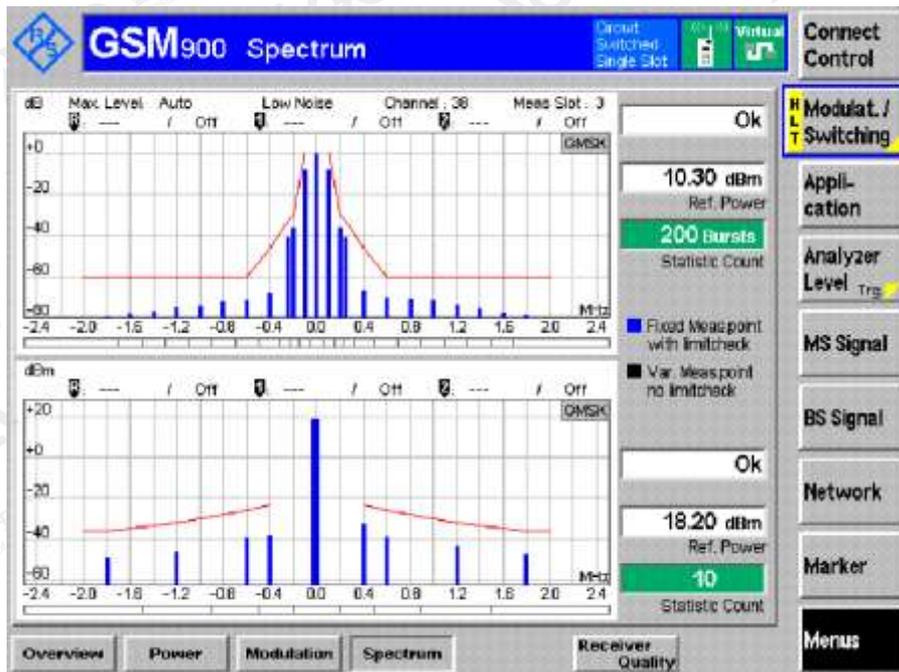


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Channel LCH PCL 12

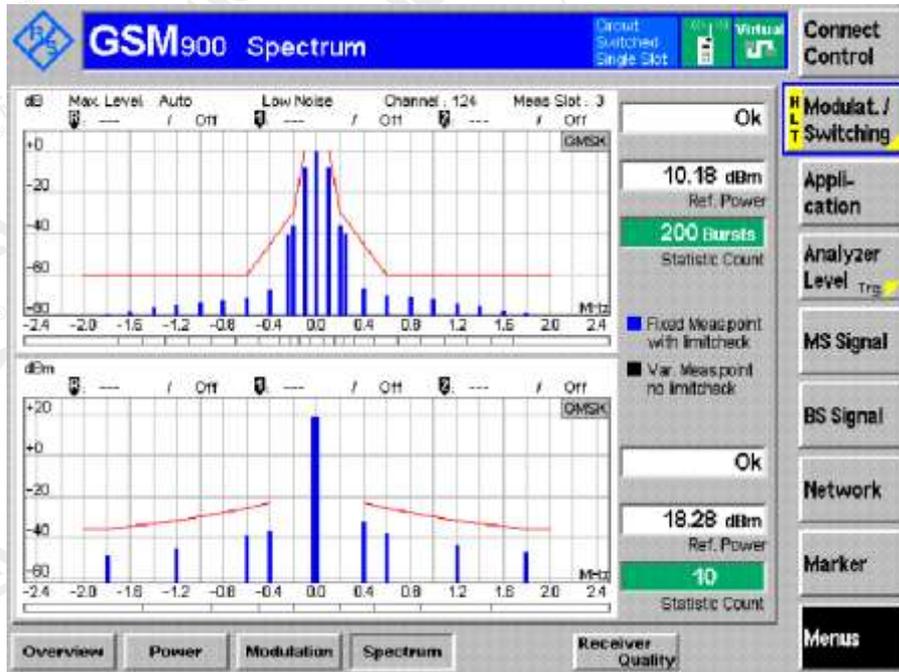


Channel MCH PCL 12

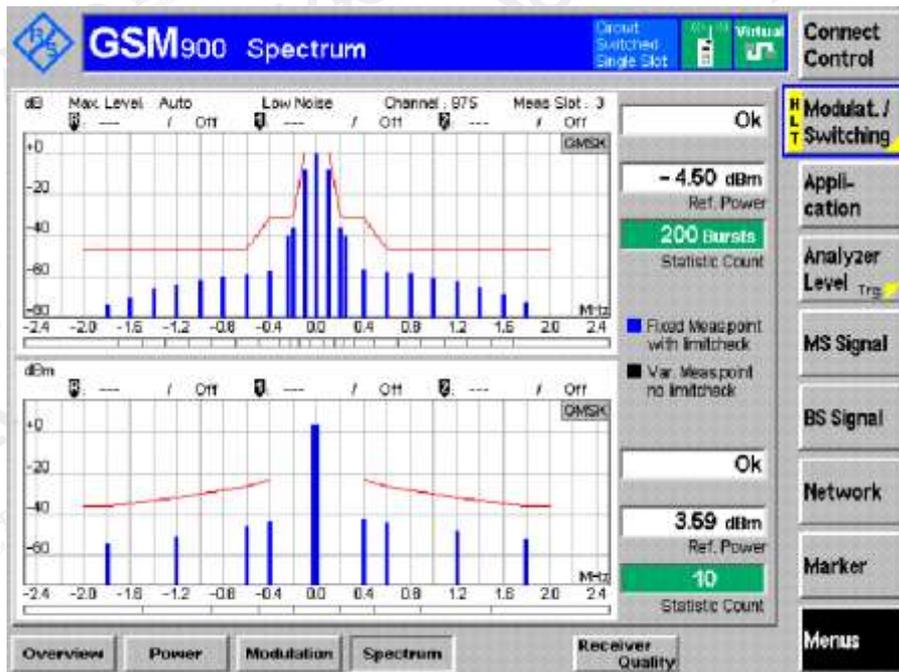


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Channel HCH PCL 12

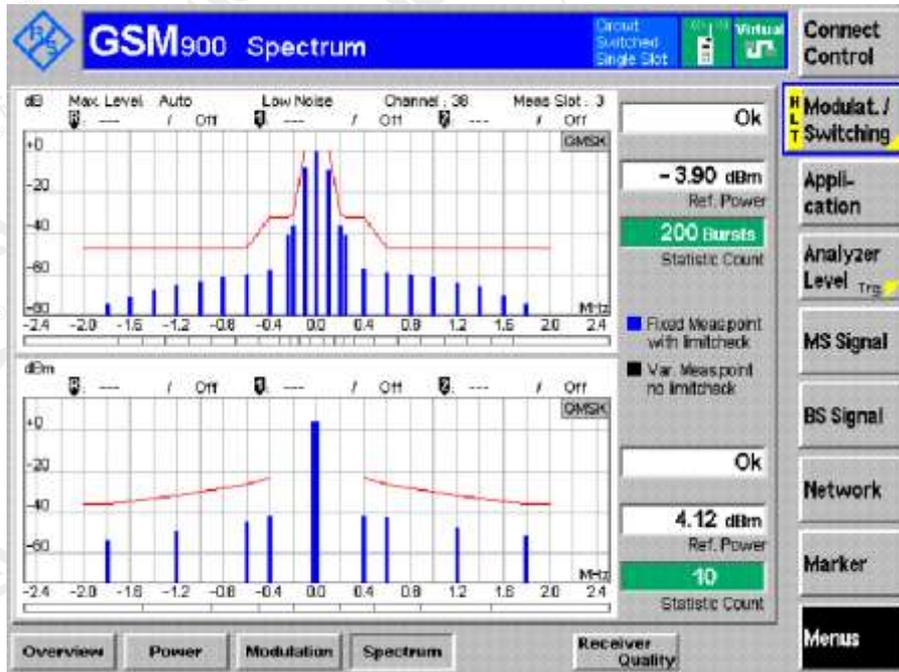


Channel LCH PCL 19

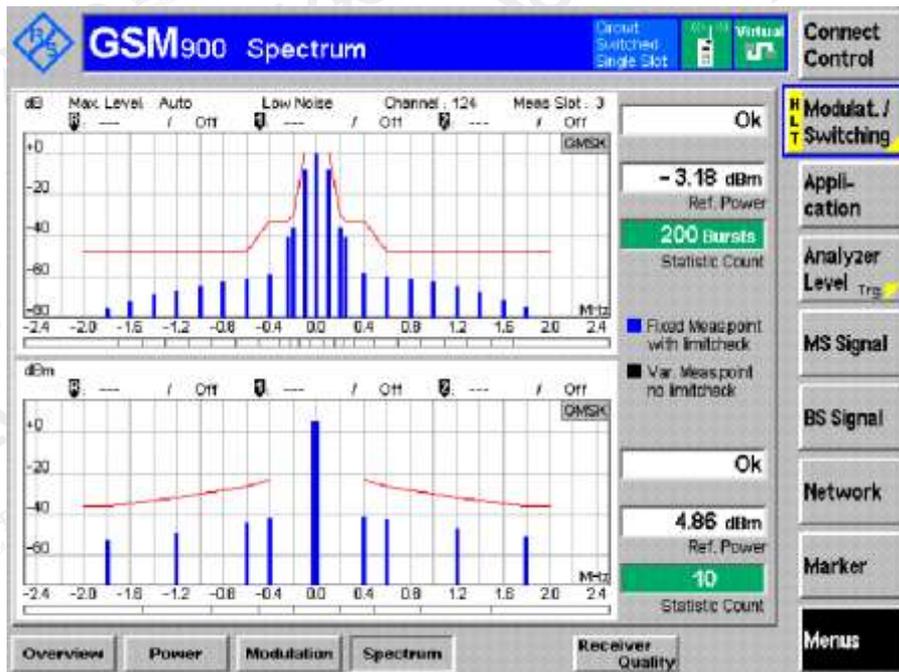


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Channel MCH PCL 19

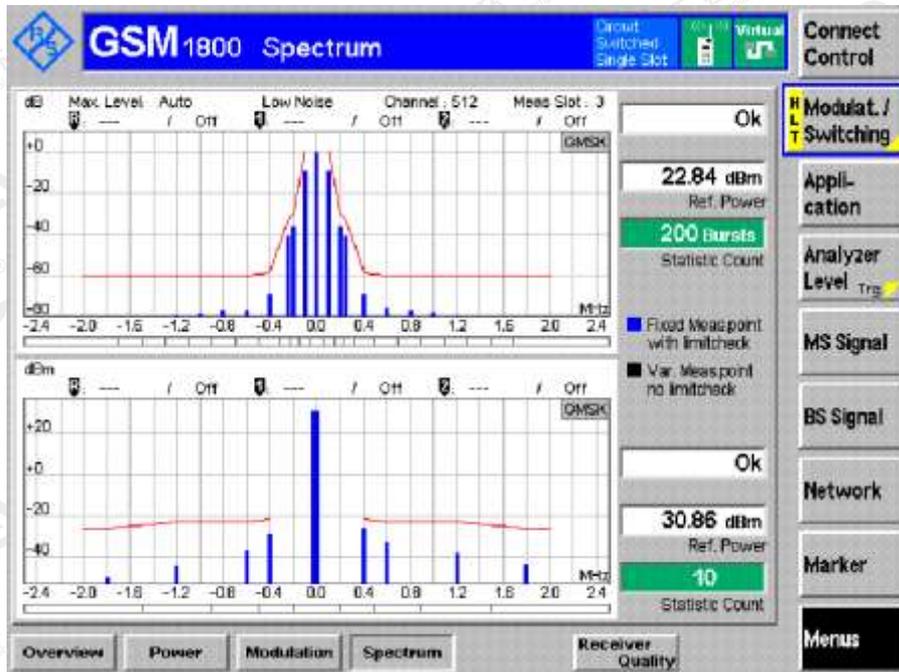


Channel HCH PCL 19

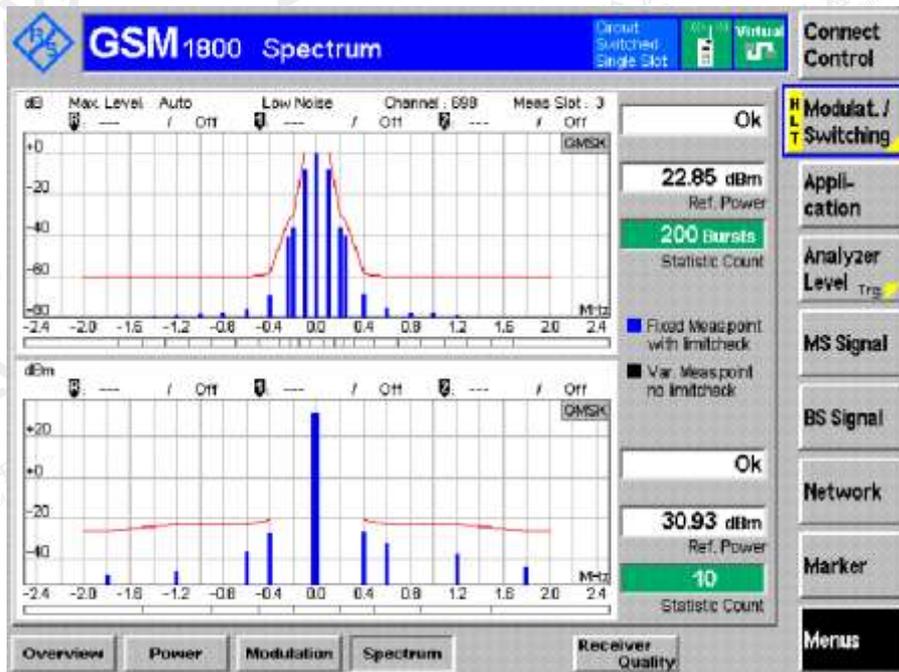


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DCS1800 TH,VH
Channel LCH PCL 0

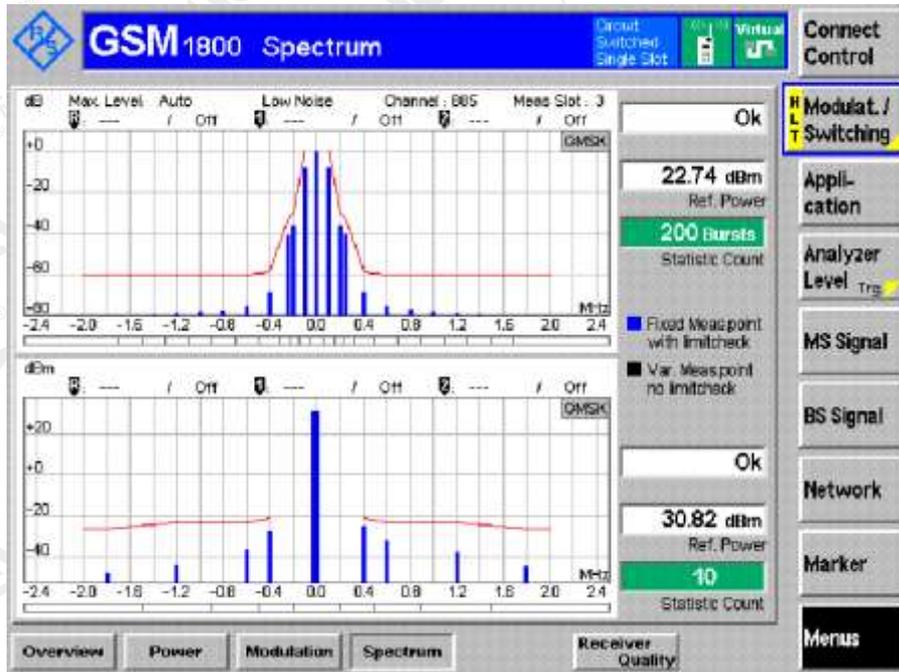


Channel MCH PCL 0

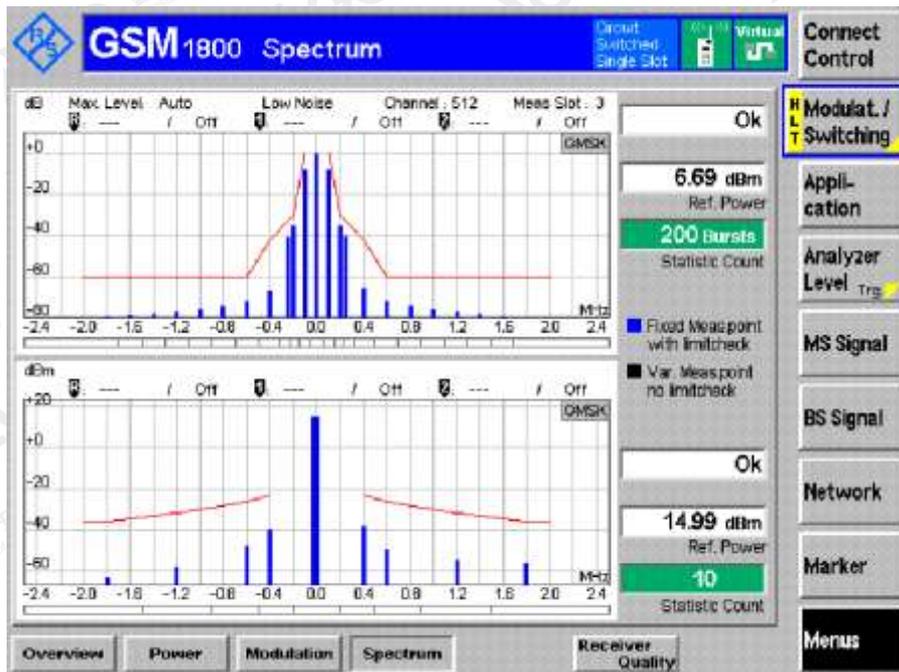


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Channel HCH PCL 0

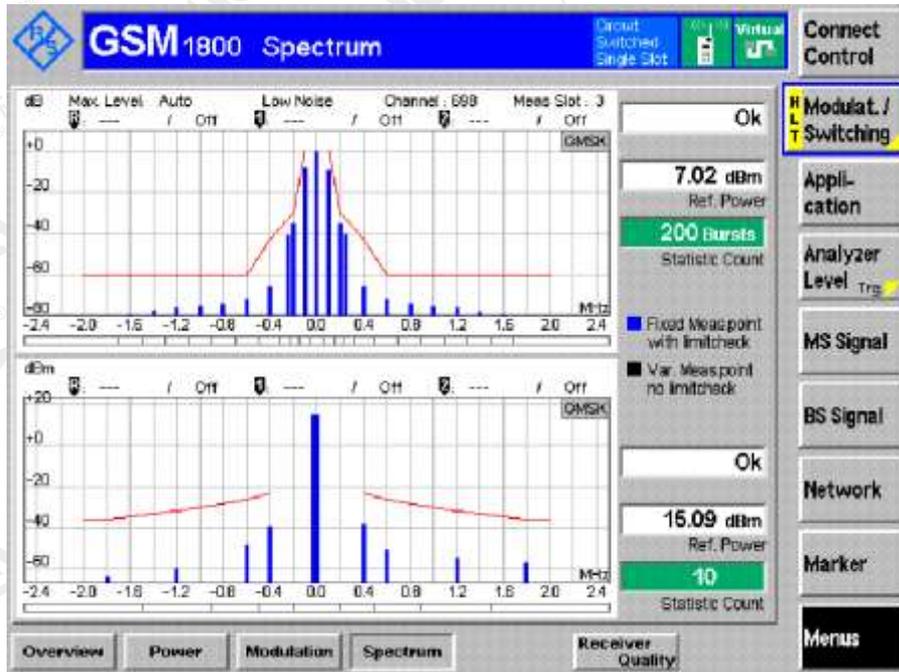


Channel LCH PCL 8

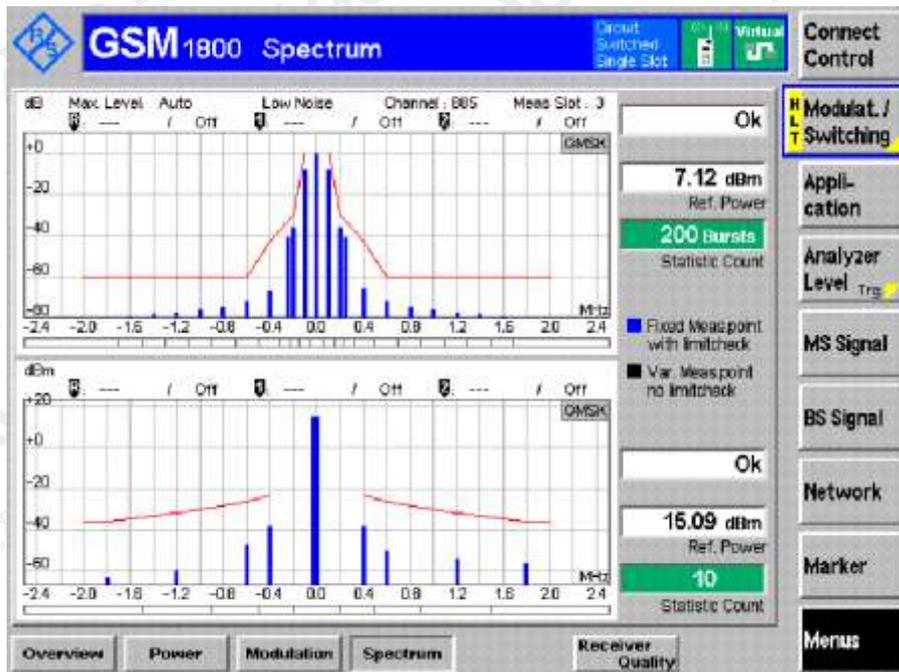


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Channel MCH PCL 8

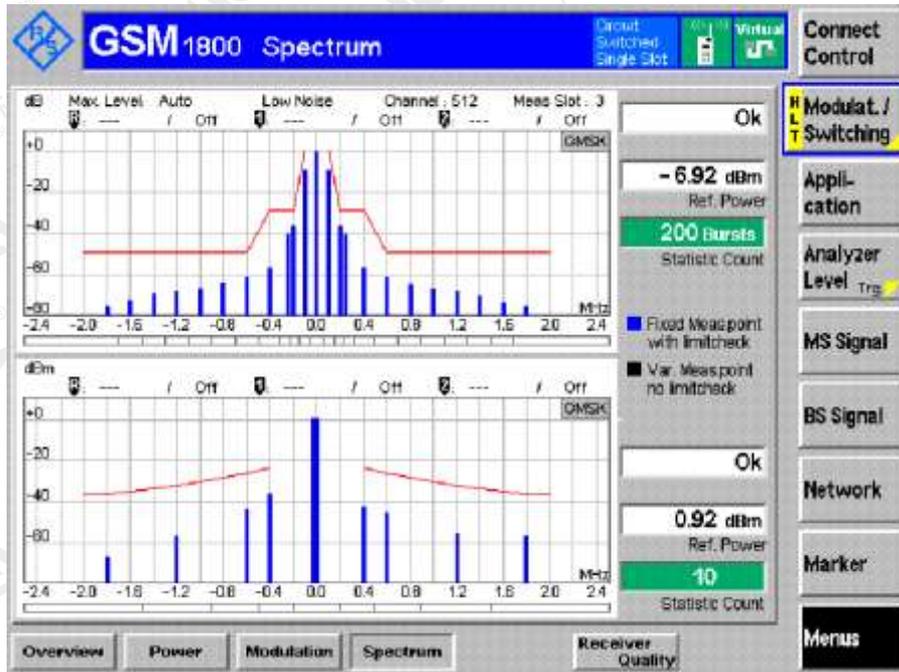


Channel HCH PCL 8

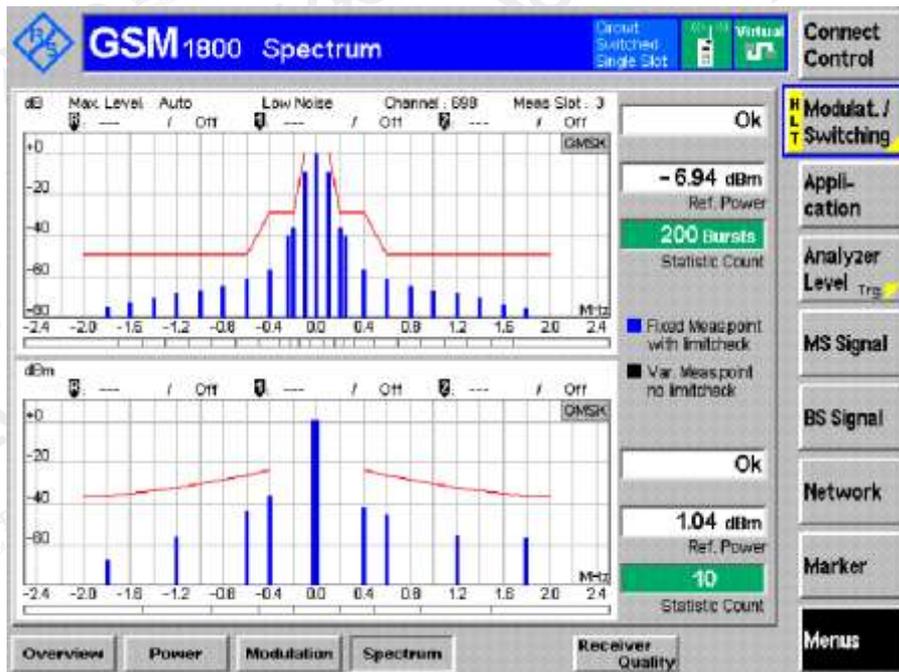


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Channel LCH PCL 15

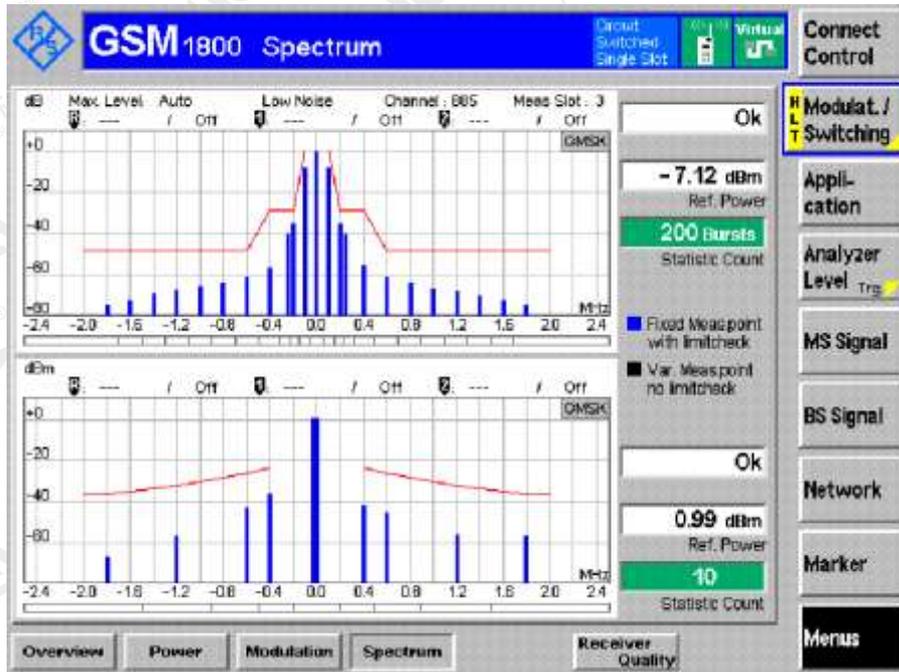


Channel MCH PCL 15



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Channel HCH PCL 15



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Appendix F. Transmitter output power in GPRS multislot configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TL,VH	5	27.88	27.80	27.85	PASS
	12	17.91	17.89	17.98	PASS
	19	3.34	3.84	4.62	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TL,VH	0	27.00	26.65	26.24	PASS
	8	14.97	15.07	15.06	PASS
	15	0.98	1.07	1.05	PASS

B. Power VS Time

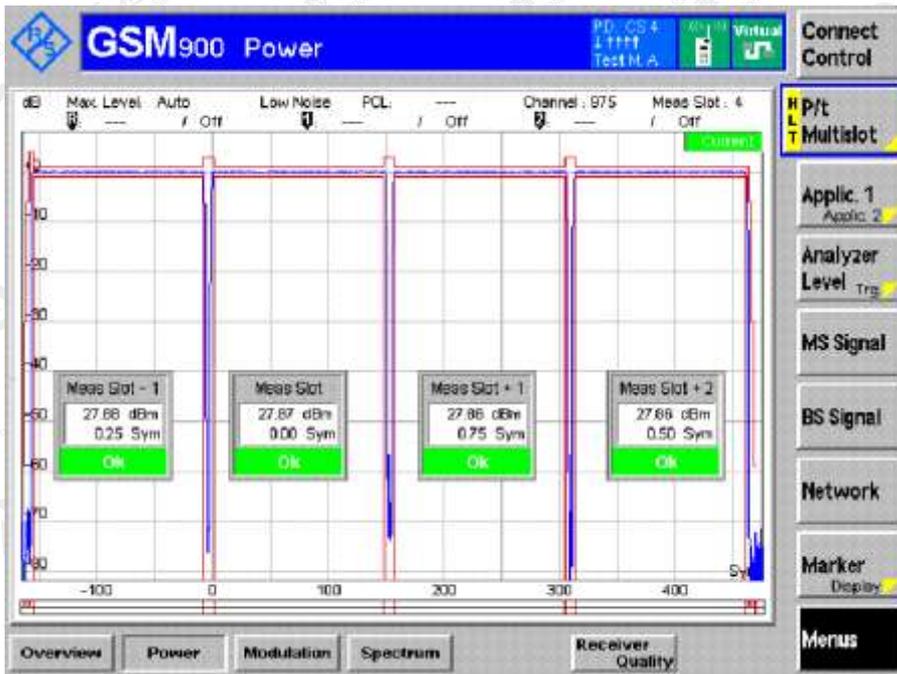
Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TL,VH	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TL,VH	0	PASS	PASS	PASS

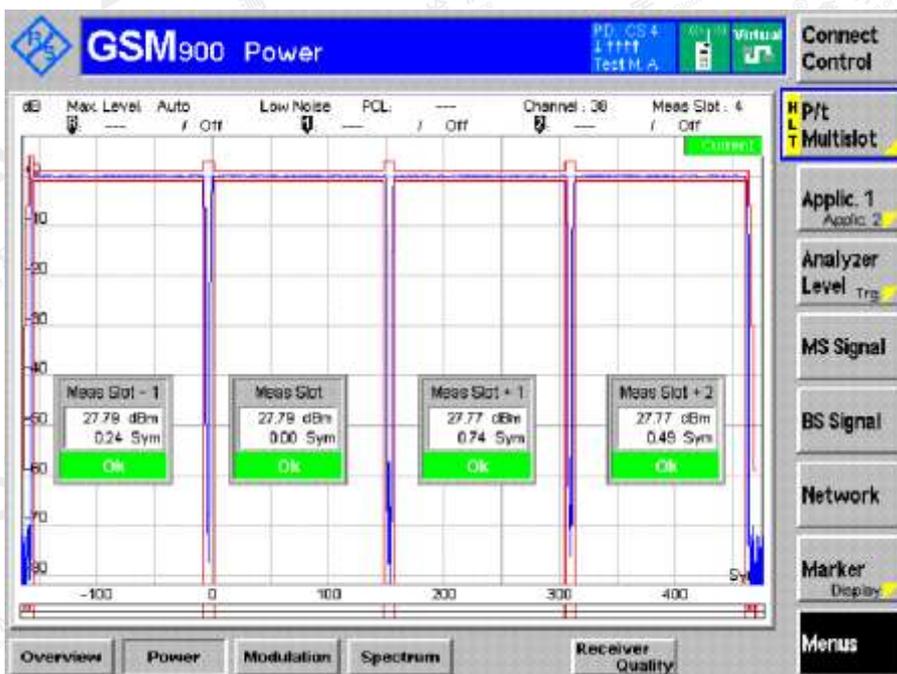
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output power in GPRS multislot configuration
GSM 900 TL,VH
Channel LCH PCL 5

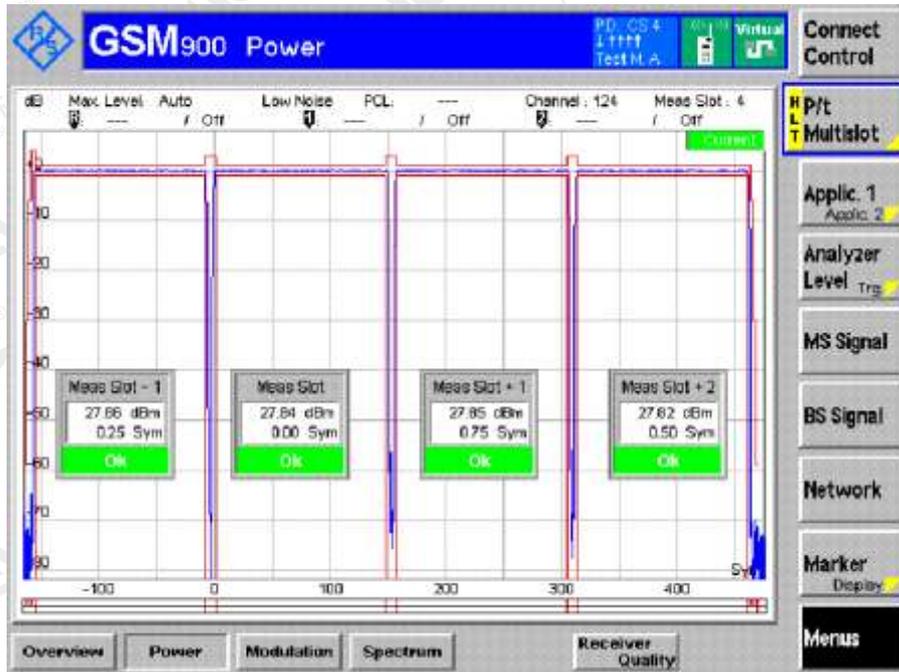


Channel MCH PCL 5

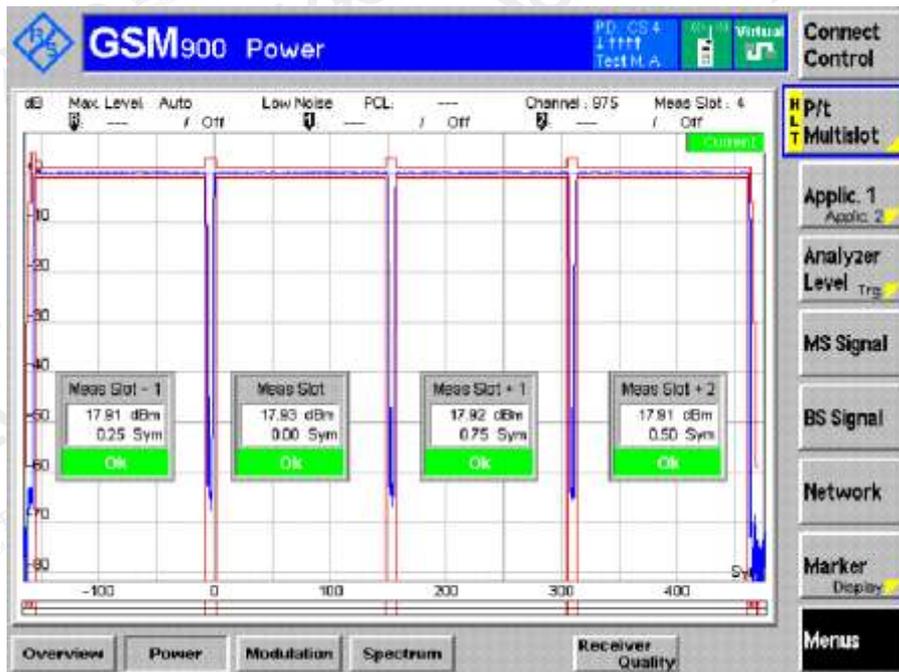


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Channel HCH PCL 5

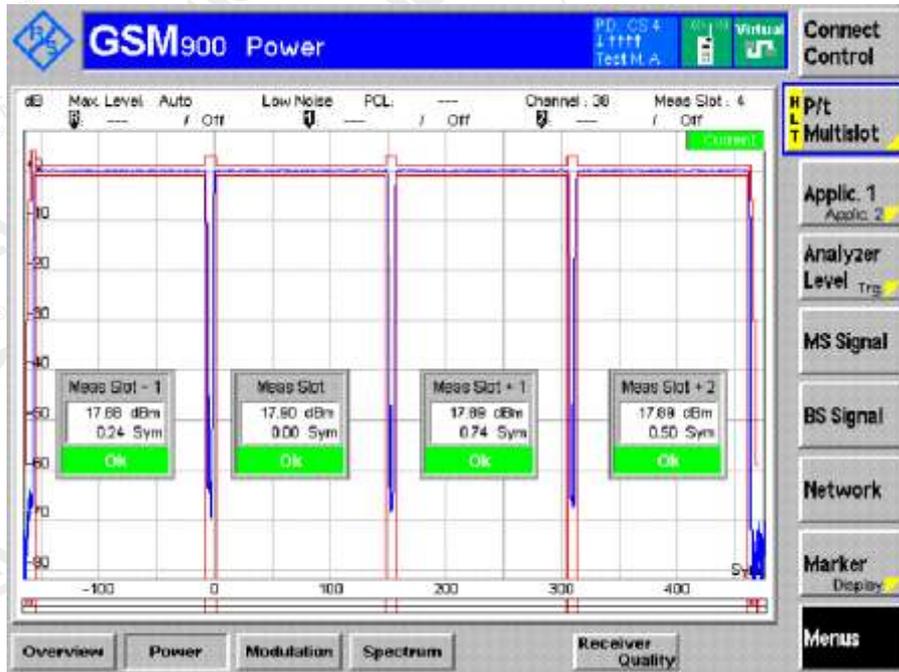


Channel LCH PCL 12

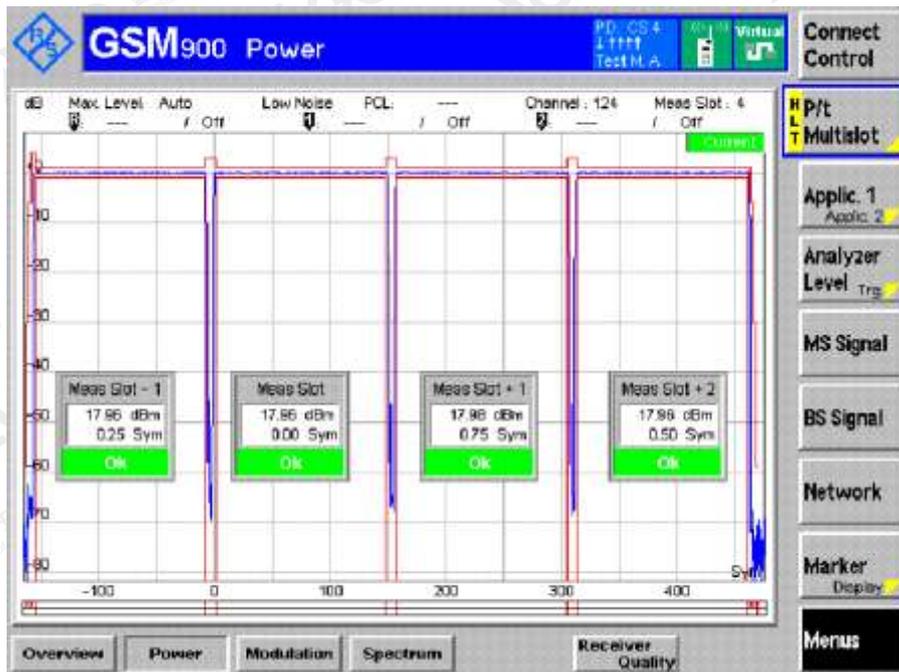


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Channel MCH PCL 12

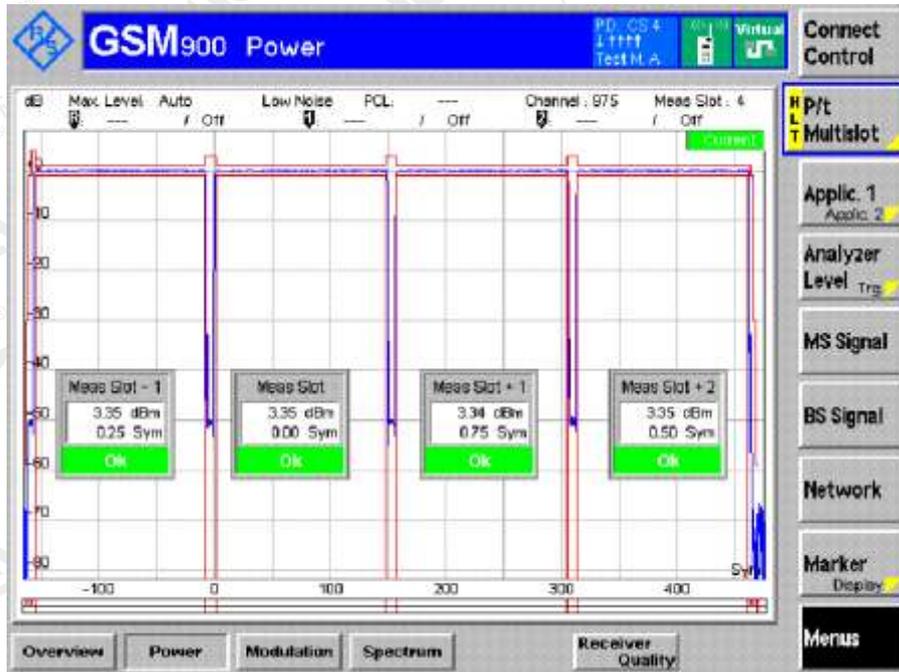


Channel HCH PCL 12

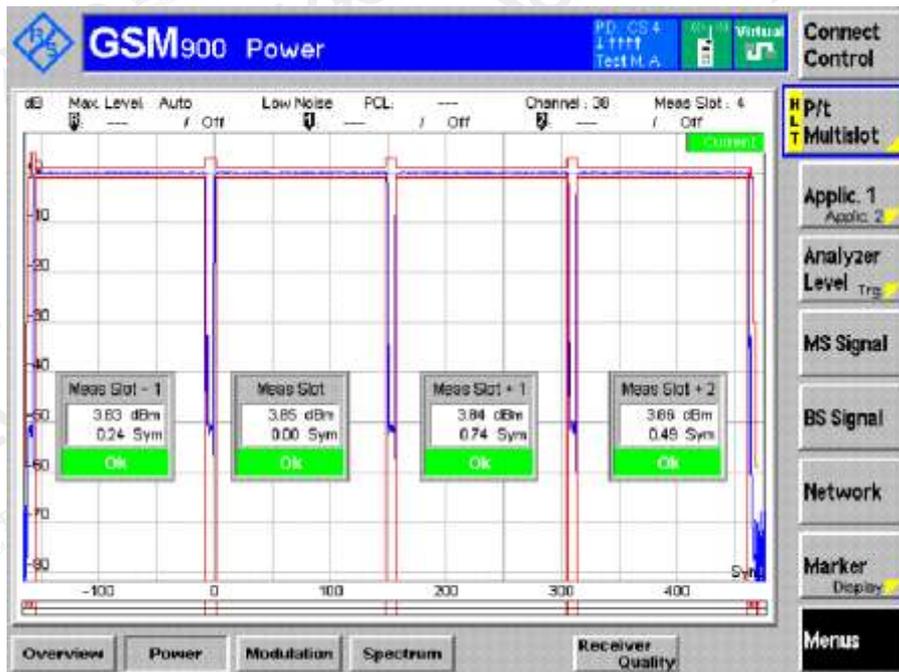


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Channel LCH PCL 19

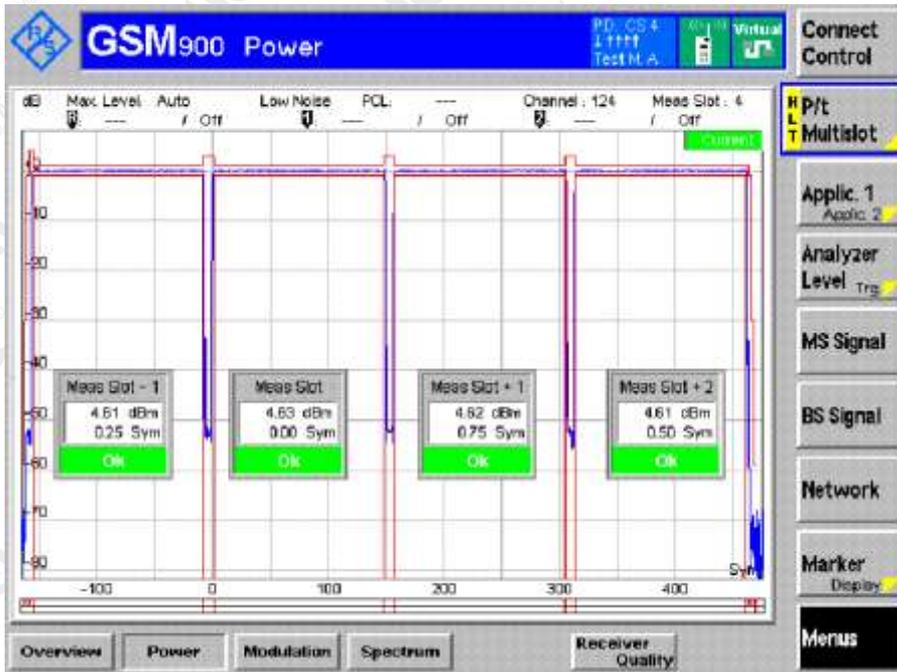


Channel MCH PCL 19



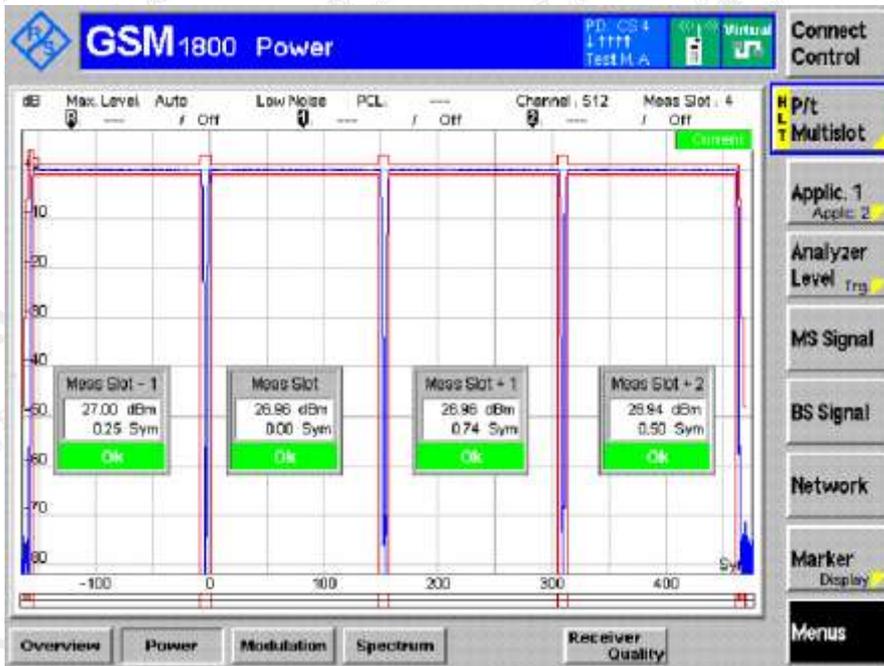
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Channel HCH PCL 19



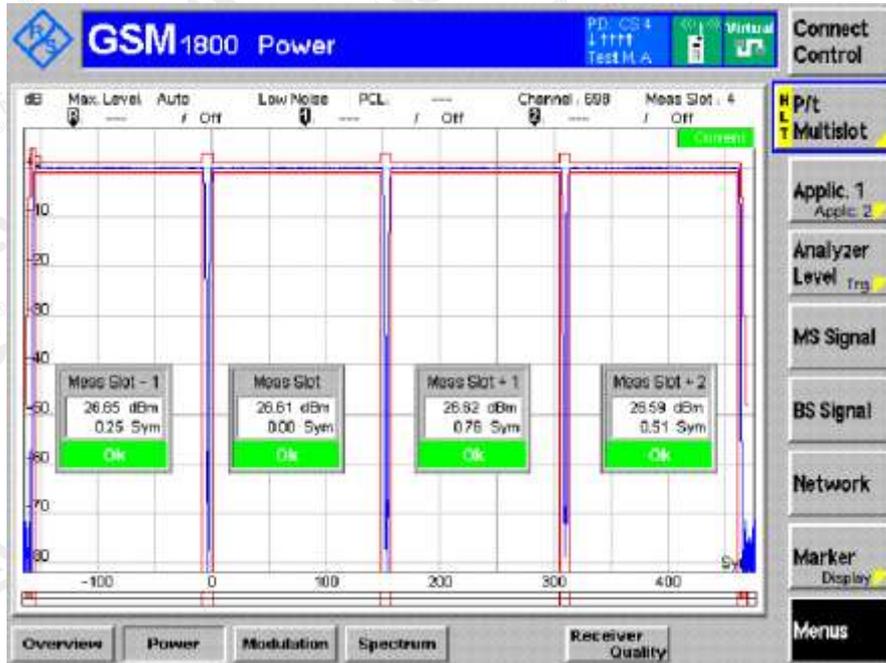
DCS1800 TL,VH

Channel LCH PCL 0

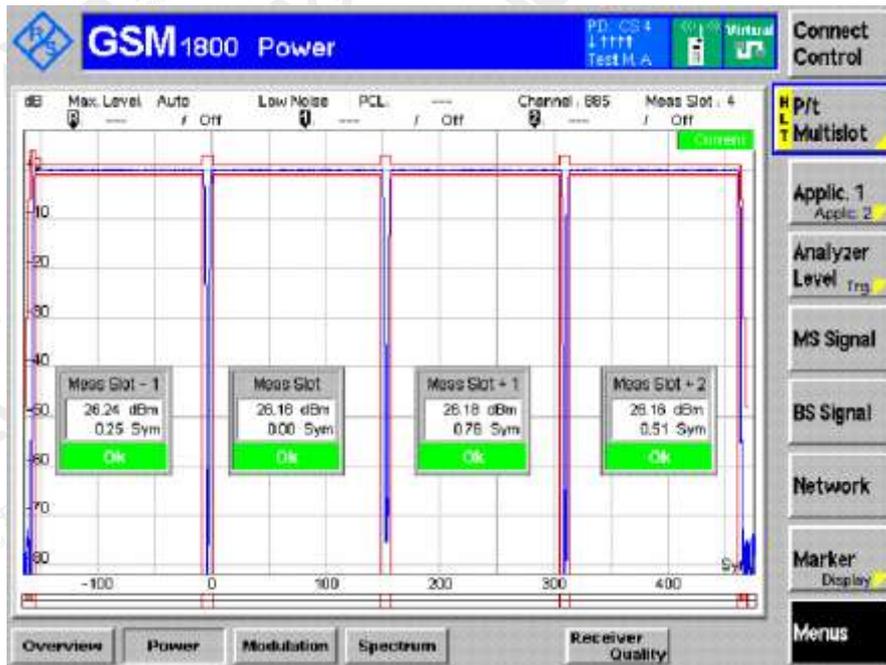


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Channel MCH PCL 0

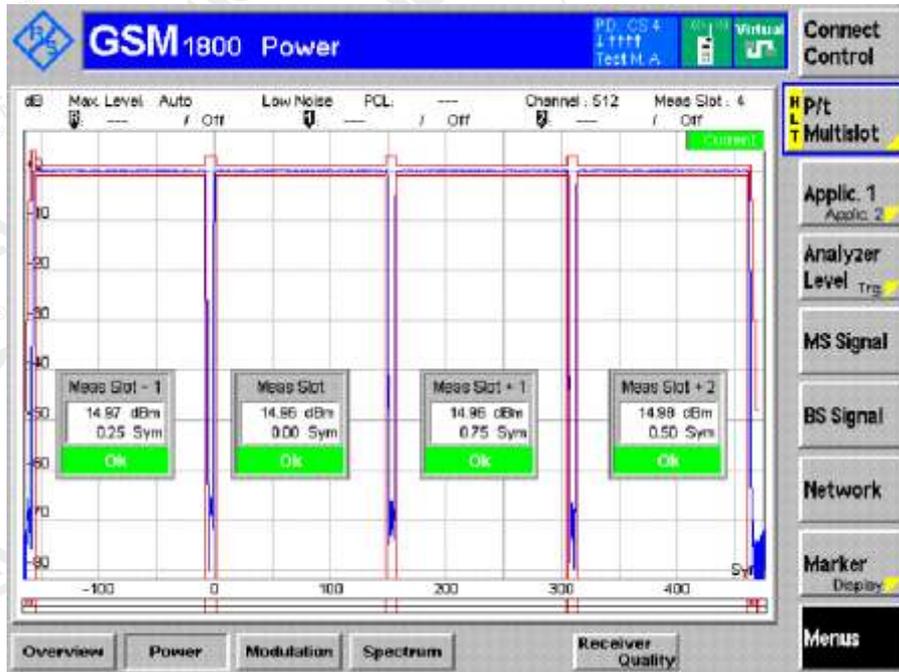


Channel HCH PCL 0

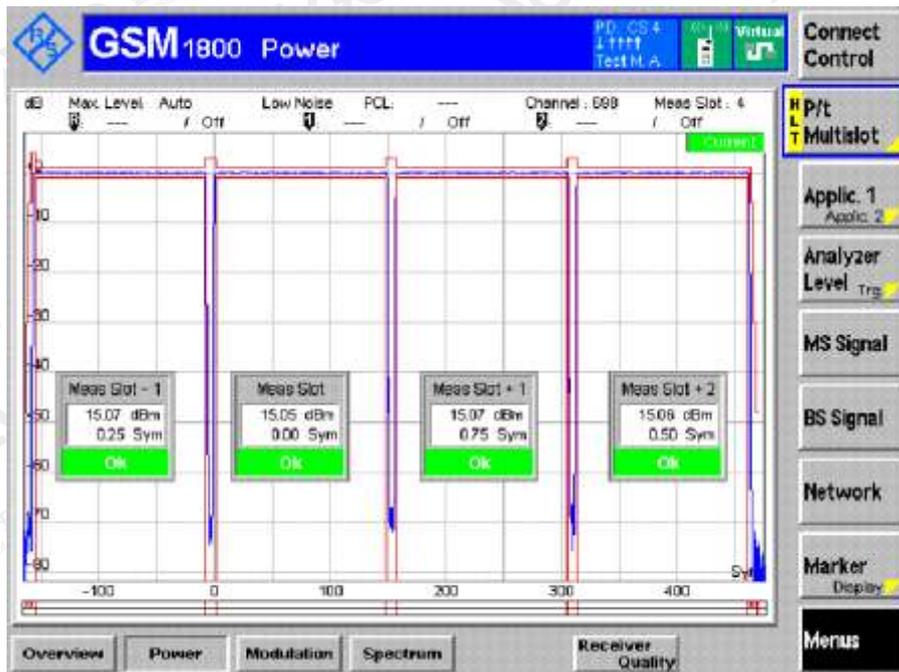


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Channel LCH PCL 8

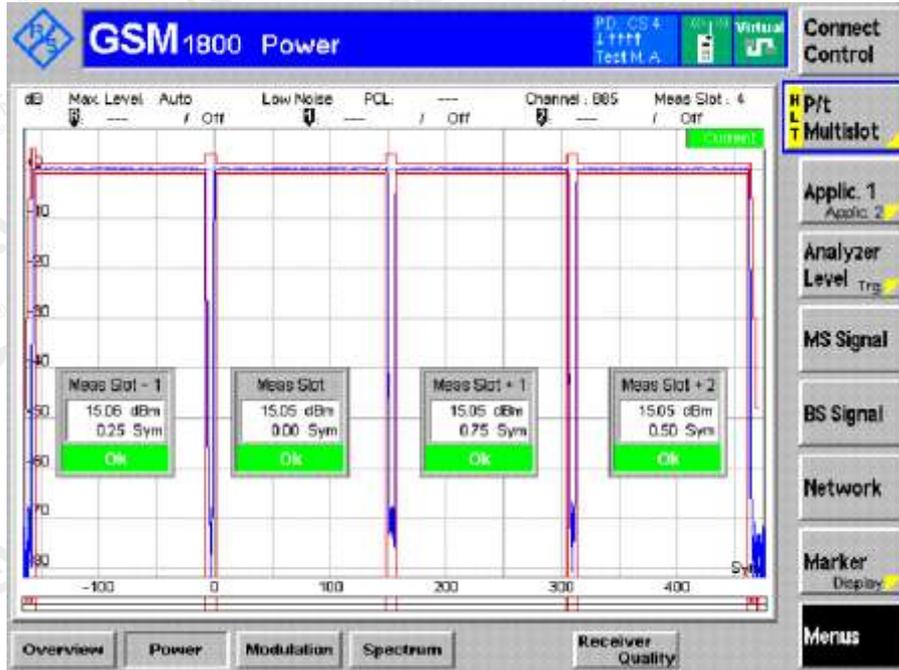


Channel MCH PCL 8

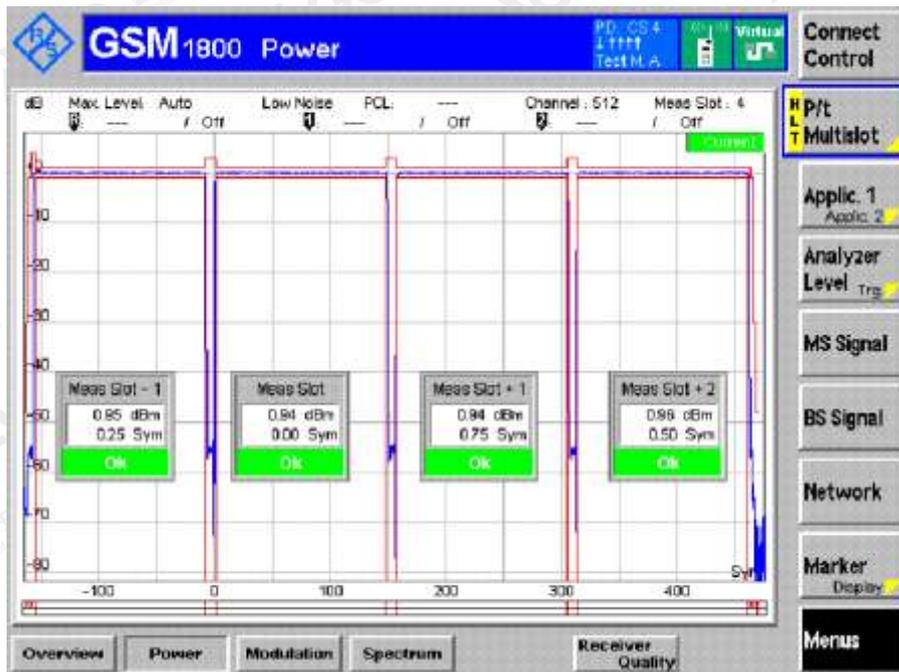


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Channel HCH PCL 8

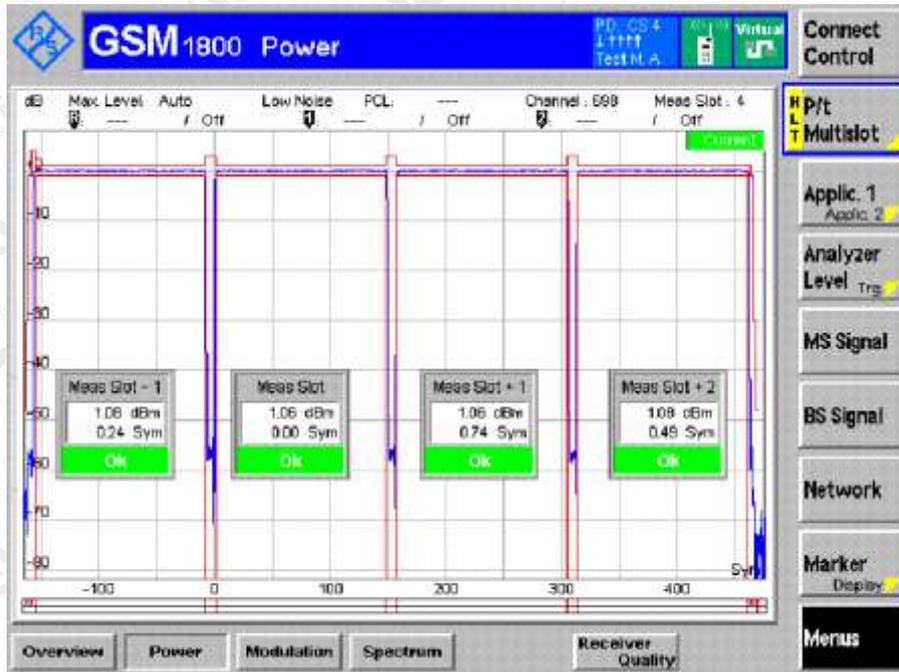


Channel LCH PCL 15

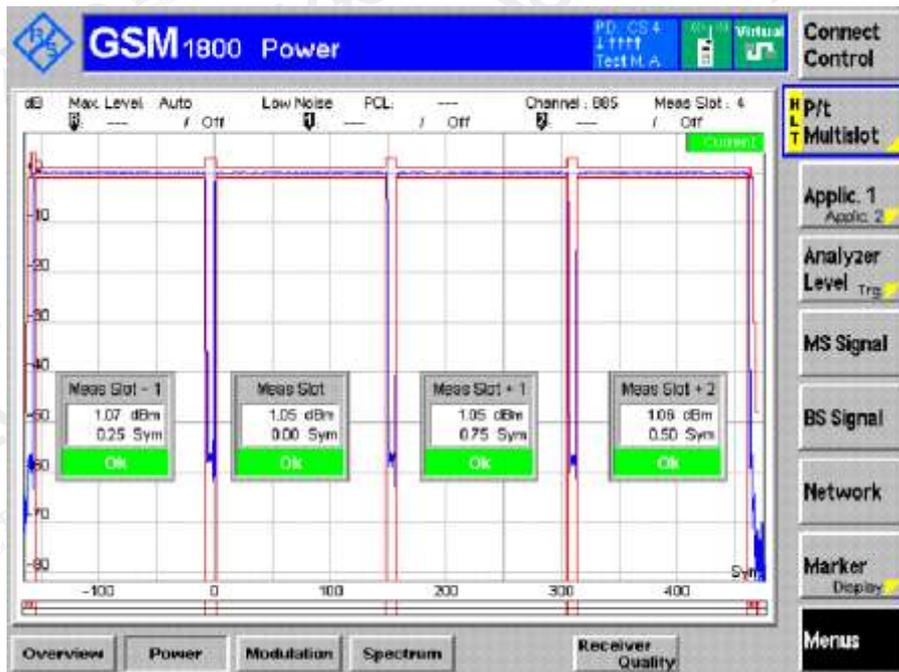


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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix G. Output RF spectrum in GPRS multislot configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

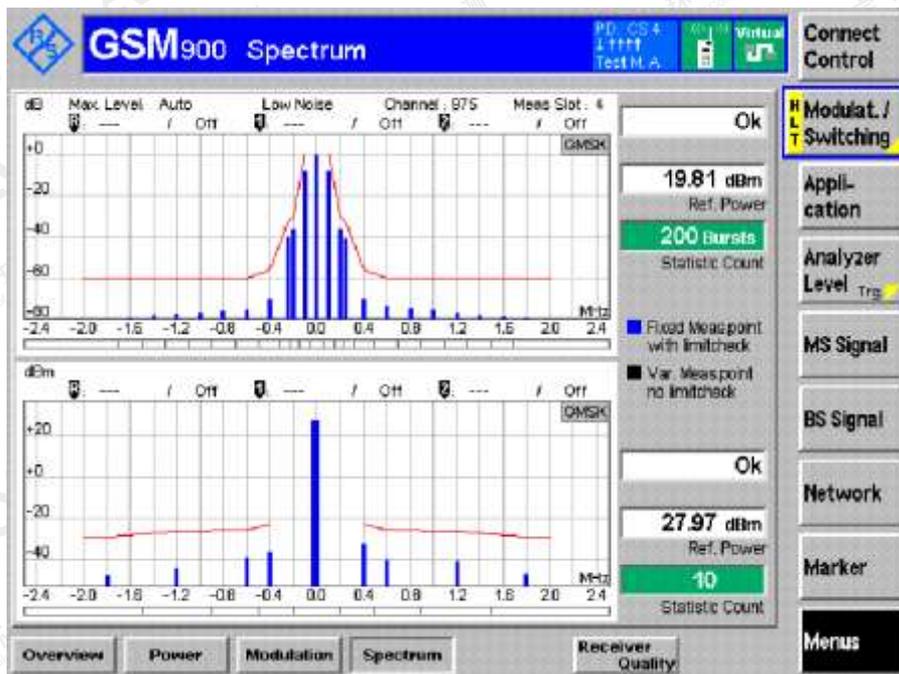
Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TH,VH	5	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation& switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TH,VH	0	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum in GPRS multislot configuration

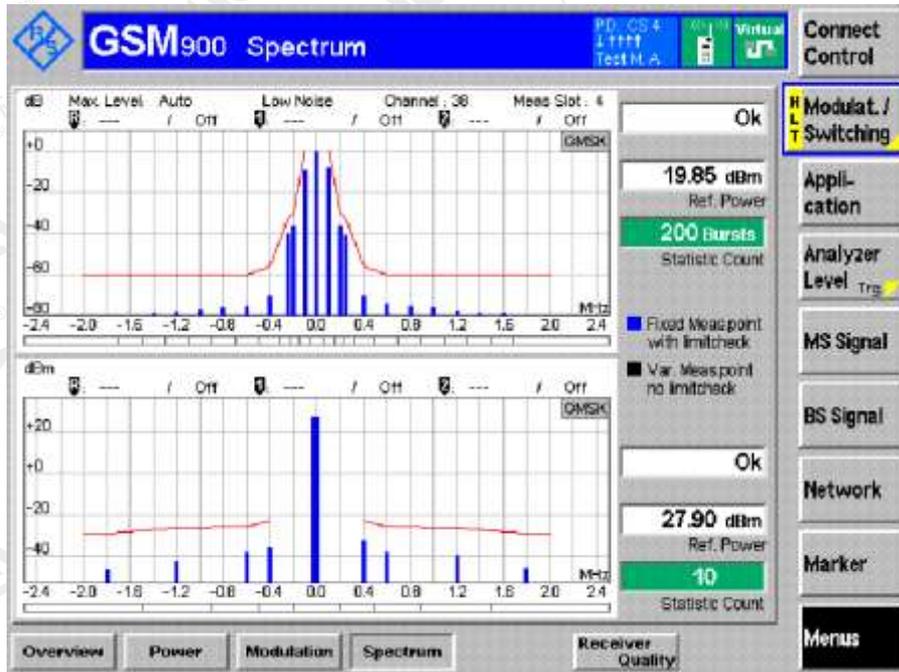
GSM 900 TH,VH

Channel LCH PCL 5

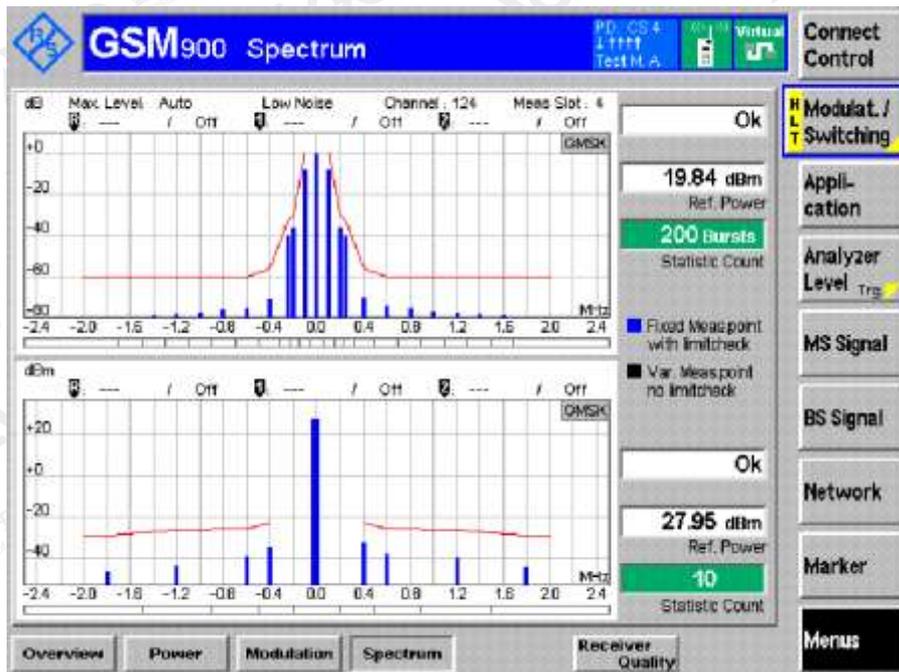


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Channel MCH PCL 5

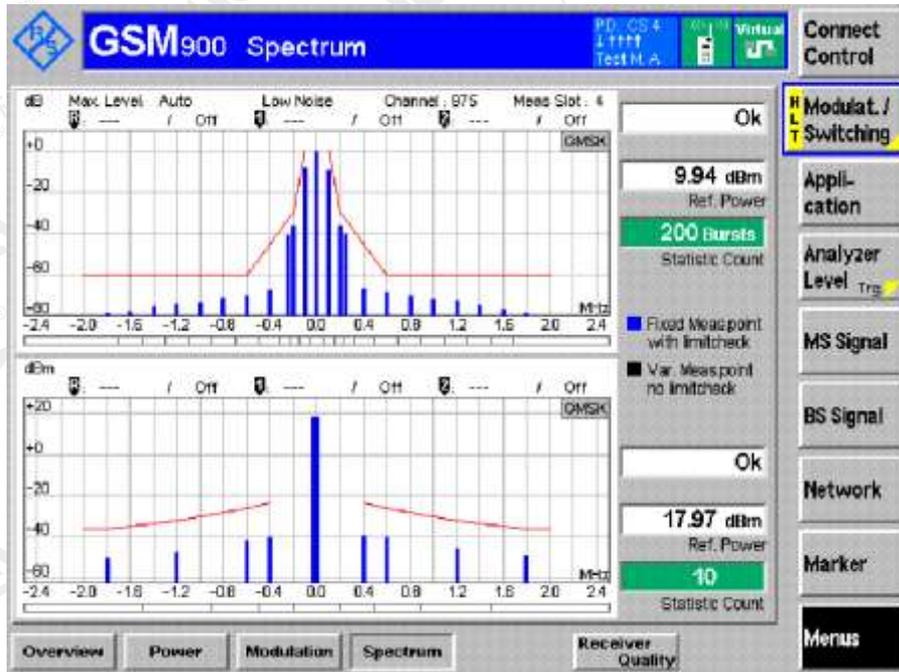


Channel HCH PCL 5

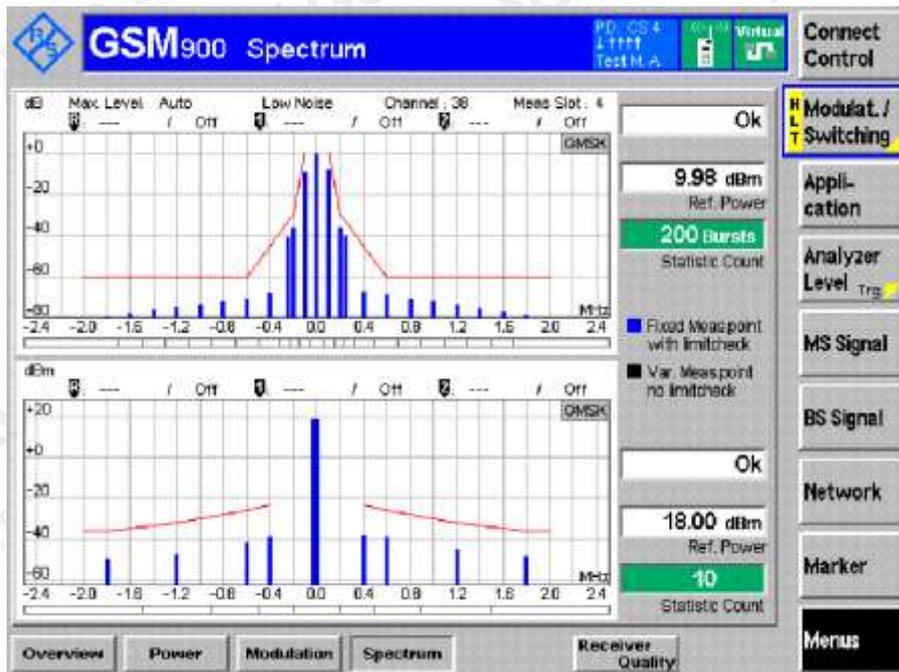


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Channel LCH PCL 12

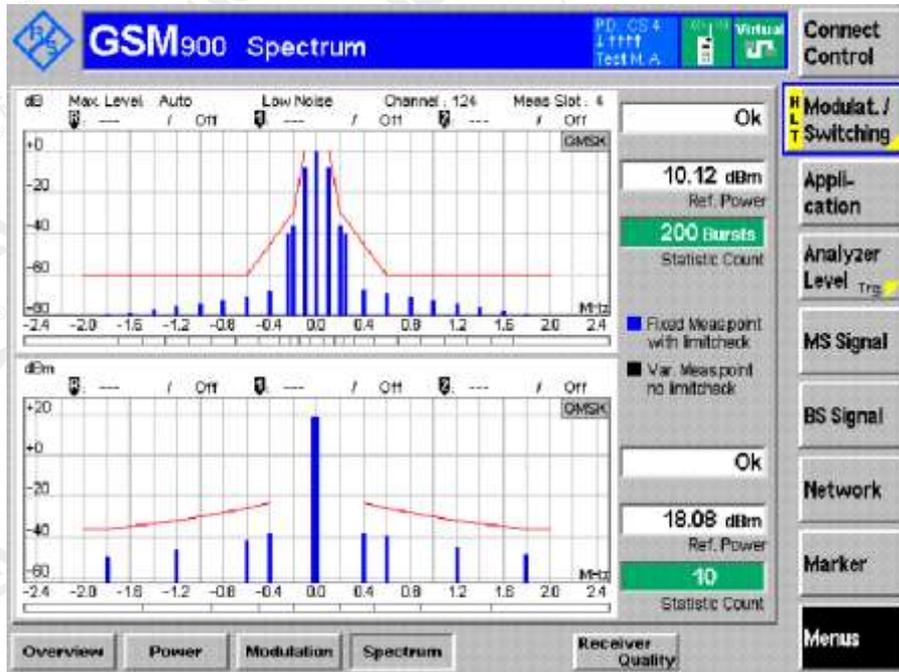


Channel MCH PCL 12

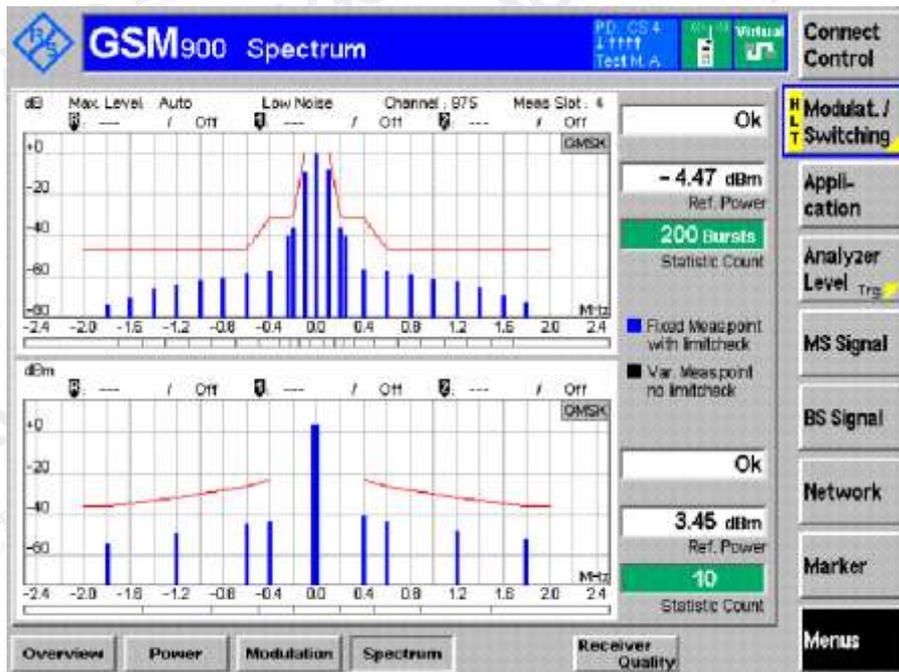


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Channel HCH PCL 12

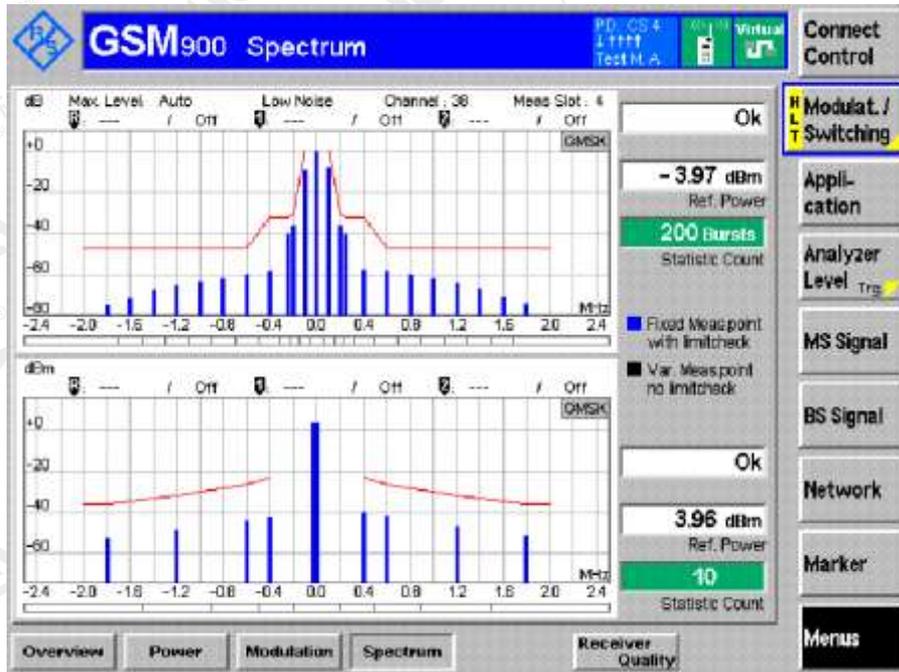


Channel LCH PCL 19

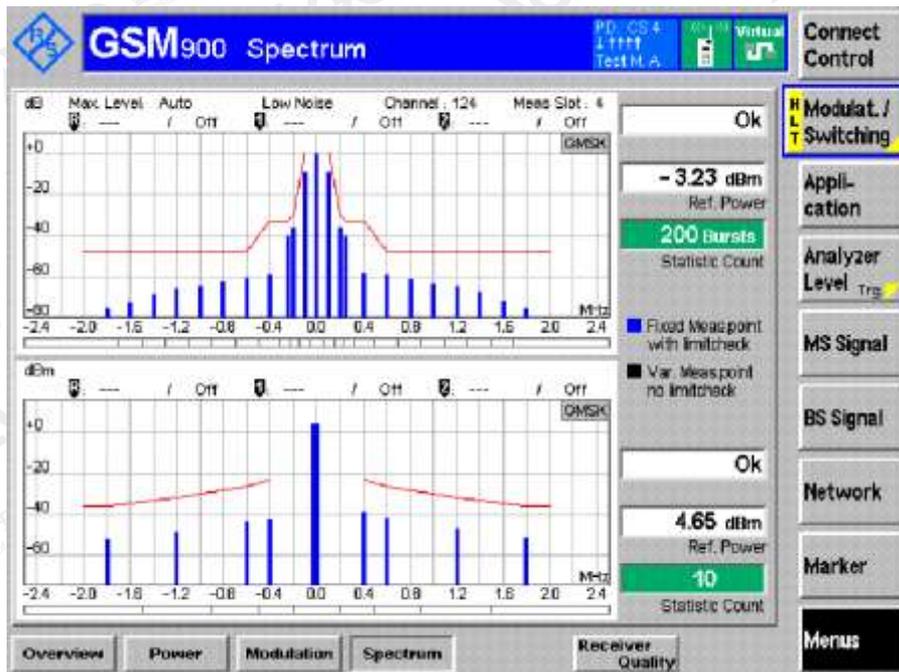


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Channel MCH PCL 19

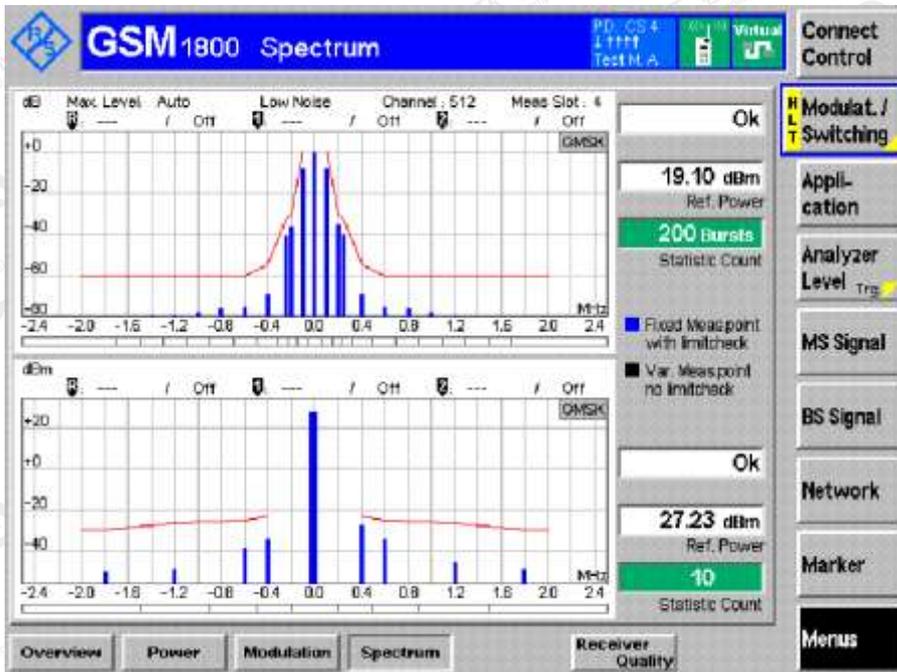


Channel HCH PCL 19

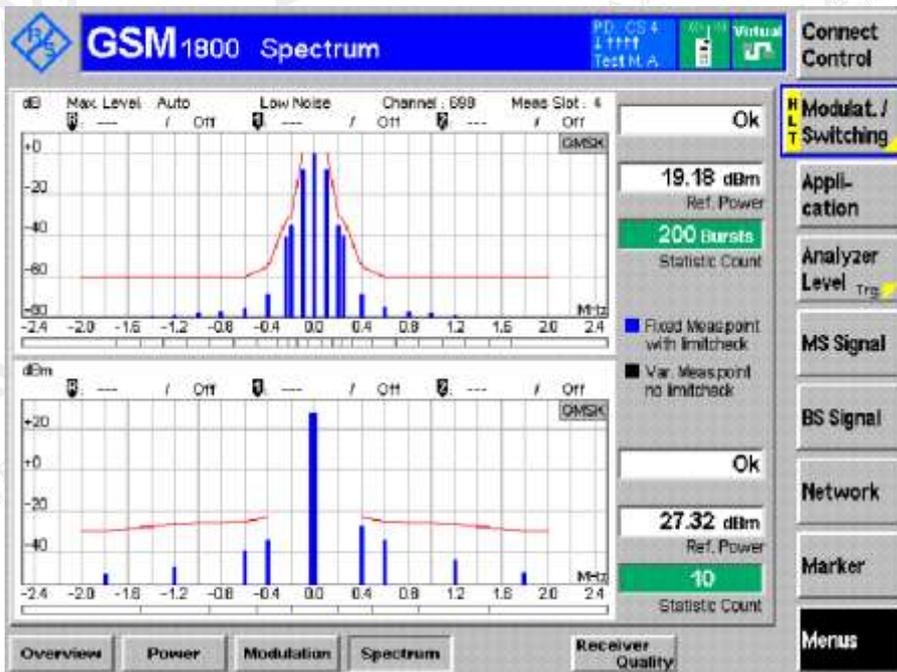


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DCS1800 TH,VH
Channel LCH PCL 0

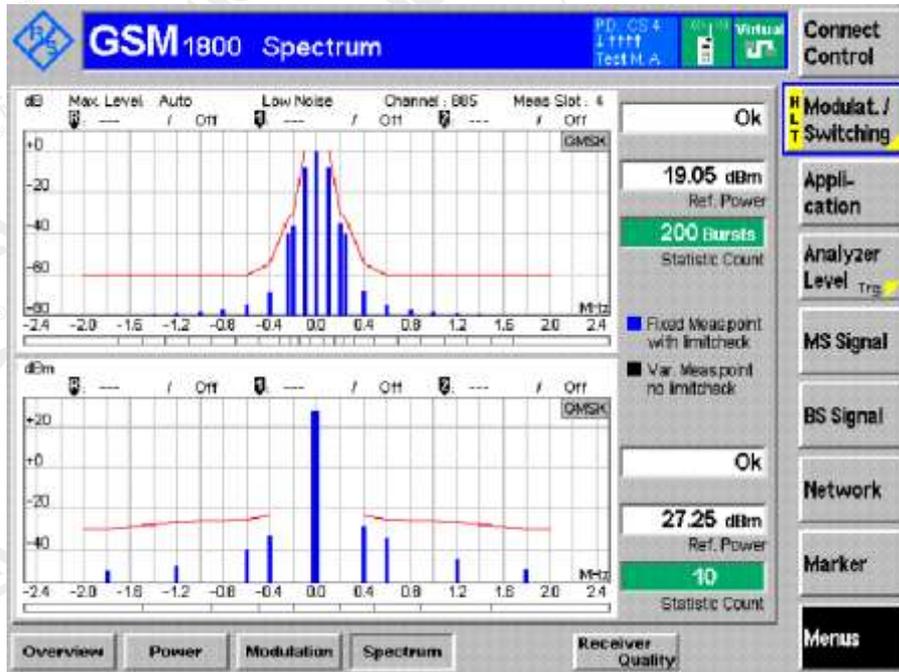


Channel MCH PCL 0

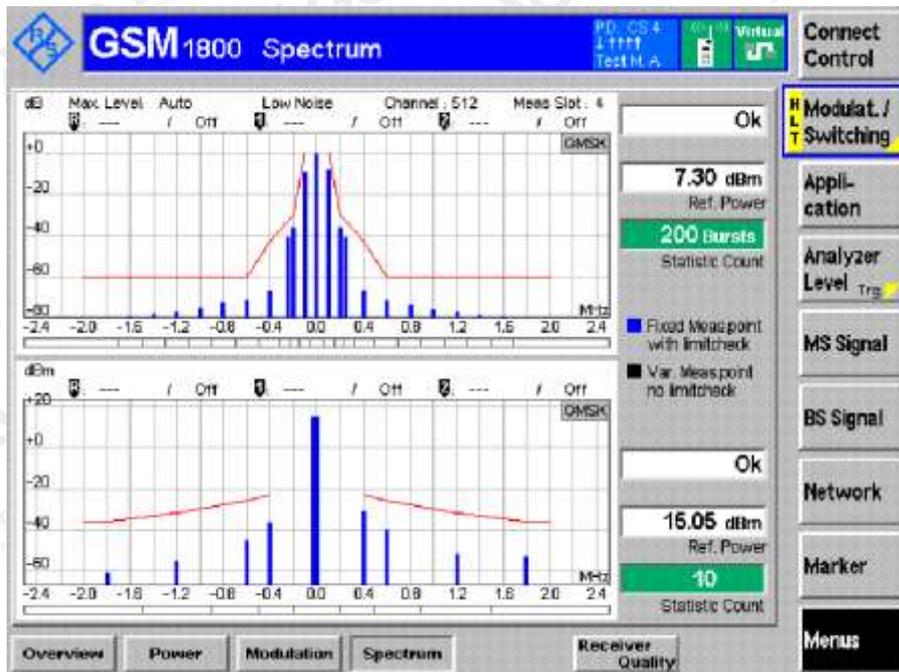


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Channel HCH PCL 0

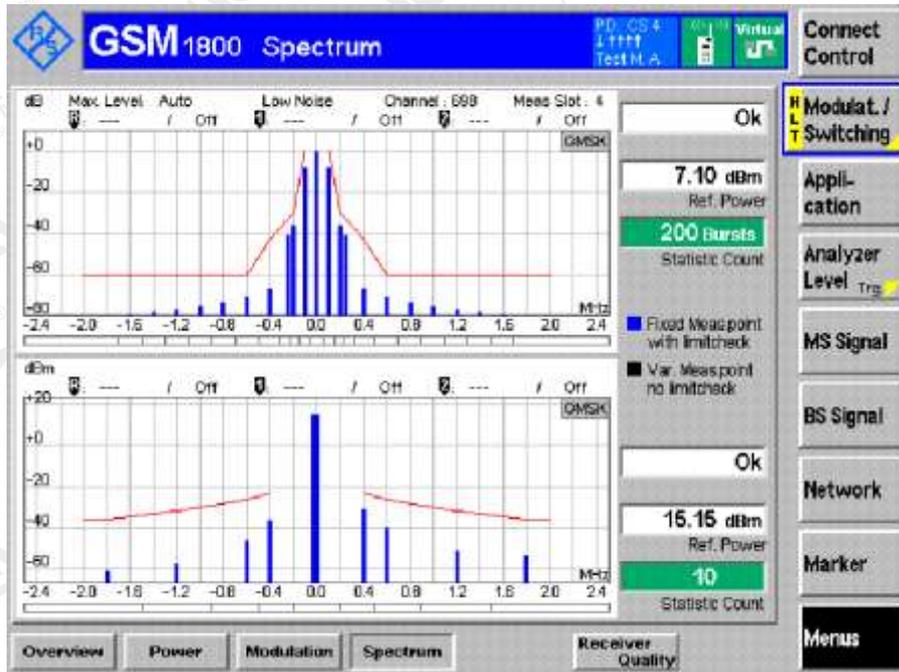


Channel LCH PCL 8

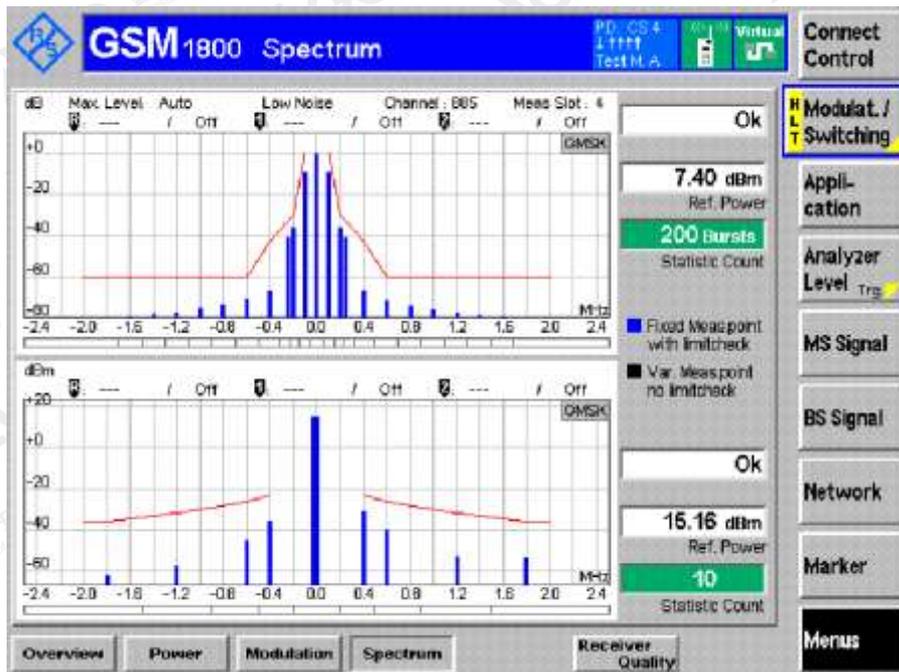


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Channel MCH PCL 8

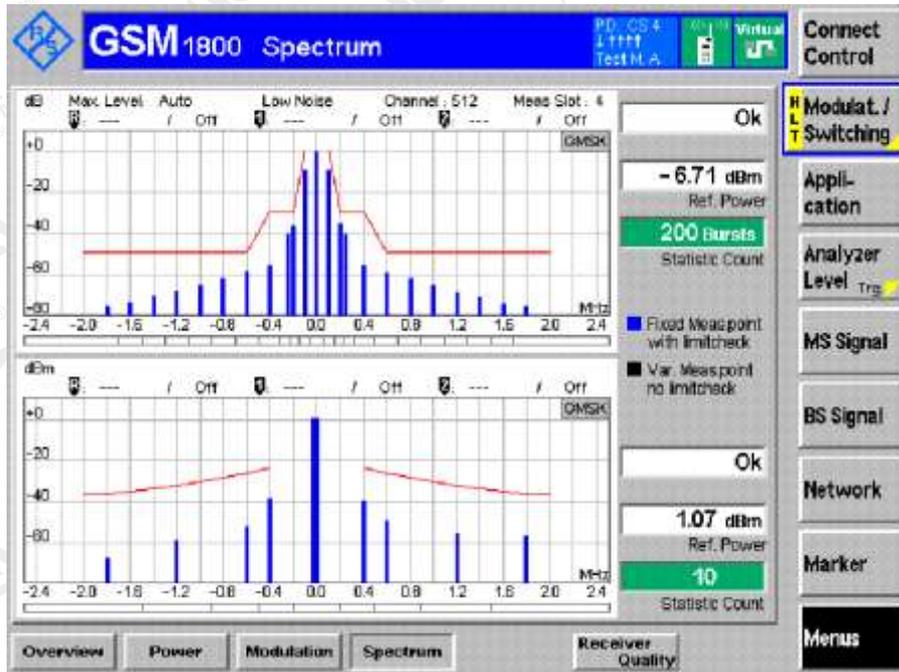


Channel HCH PCL 8

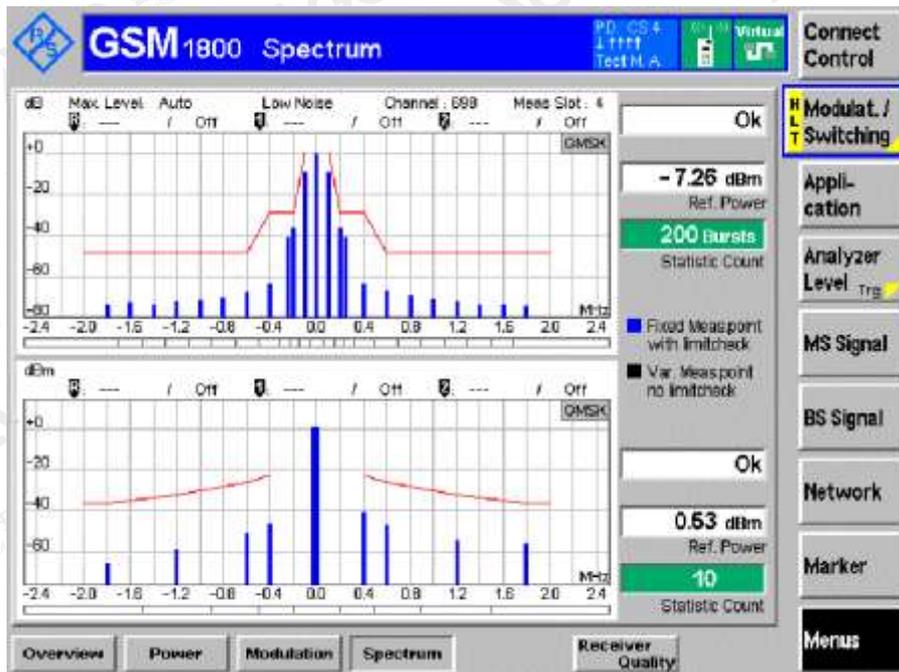


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Channel LCH PCL 15

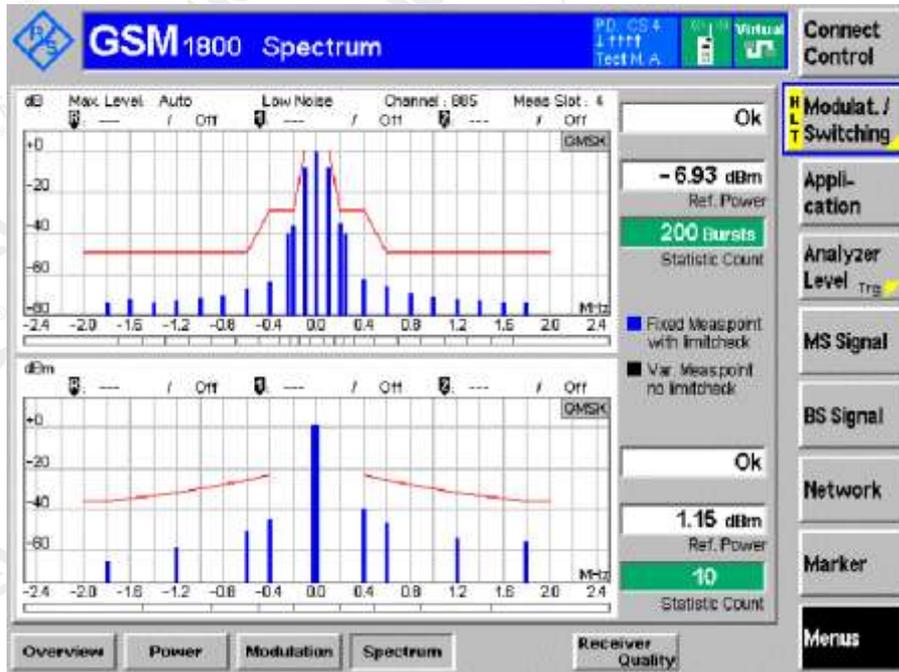


Channel MCH PCL 15



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Channel HCH PCL 15



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Appendix H. Conducted spurious emissions - MS allocated a channel

Note: All the modes had been tested, but only the worst data recorded in the report.

Conducted spurious emissions		GSM900;VL		
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-36	-55.33	PASS
50MHz~500MHz	100k	-36	-49.04	PASS
500MHz~850MHz	3M	-36	-39.83	PASS
850MHz~860MHz	1M	-36	-42.64	PASS
860MHz~870MHz	300k	-36	-49.42	PASS
870MHz~880MHz	100k	-36	-54.23	PASS
915MHz~925MHz	100k	-36	-54.50	PASS
960MHz~1GHz	3M	-36	-39.33	PASS
1GHz~1805MHz	3M	-30	-39.12	PASS
1880MHz~12.75GHz	3M	-30	-31.44	PASS
896.6MHz~900.8MHz	30K	-36	-59.58	PASS
904.4MHz~908.6MHz	30K	-36	-59.33	PASS
880MHz~896.6MHz	100K	-36	-53.23	PASS
908.6MHz~915MHz	100K	-36	-53.96	PASS

Conducted spurious emissions		DCS1800;VL		
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
100kHz~50MHz	10k	-36	-59.11	PASS
50MHz~500MHz	100k	-36	-49.39	PASS
500MHz~925MHz	3M	-36	-39.04	PASS
960MHz~1GHz	3M	-36	-43.24	PASS
1GHz~1680MHz	3M	-30	-39.44	PASS
1680MHz~1690MHz	1M	-30	-42.59	PASS
1690MHz~1700MHz	300k	-30	-48.37	PASS
1700MHz~1710MHz	100k	-30	-54.13	PASS

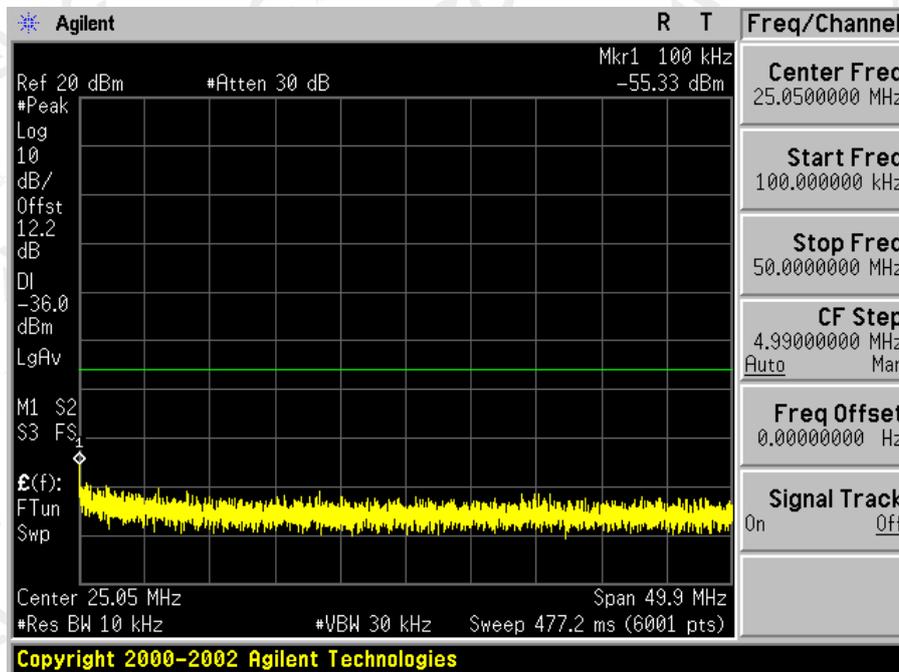
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1785MHz~1795MHz	100K	-30	-53.35	PASS
1795MHz~1805MHz	300k	-30	-48.68	PASS
1880MHz~12.75GHz	3M	-30	-31.25	PASS
1741.4MHz~1745.6GHz	30K	-36	-58.35	PASS
1749.2MHz~1753.4MHz	30K	-36	-58.24	PASS
1710MHz~1741.4MHz	100K	-36	-53.24	PASS
1753.4MHz~1785MHz	100K	-36	-53.00	PASS

Graphs of conducted spurious emission-MS allocated a channel

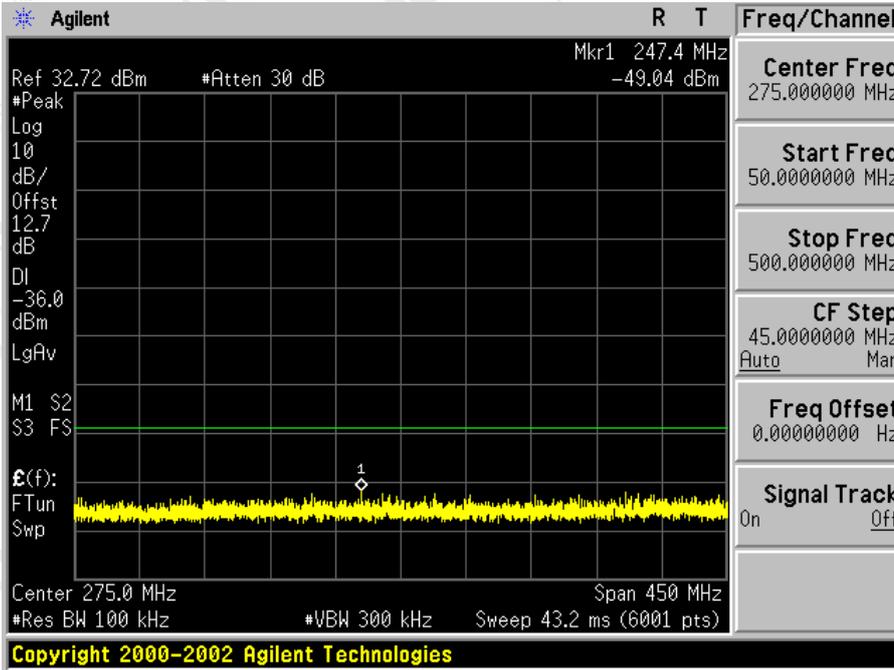
GSM900: channel MCH VL

100kHz~50MHz

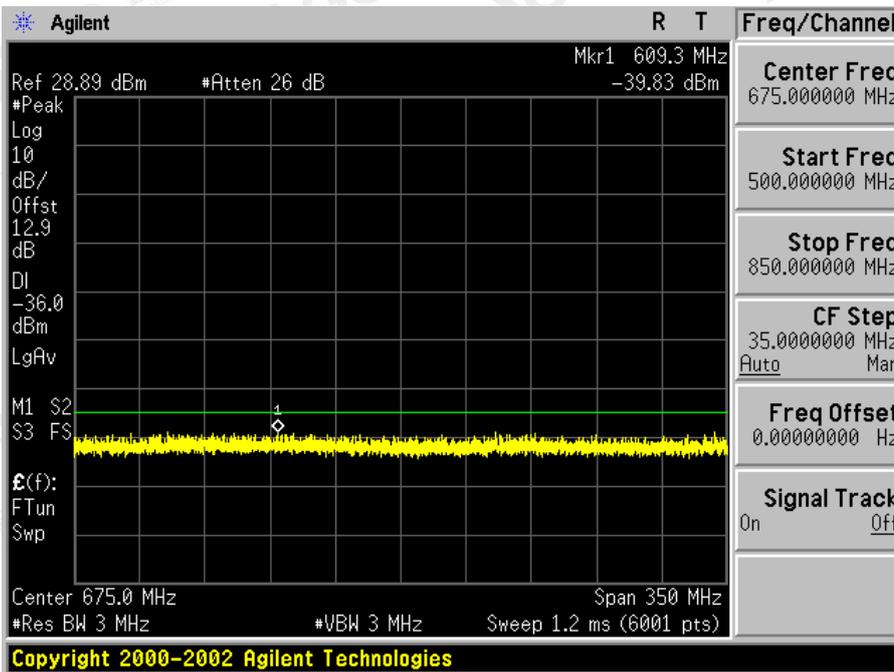


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50MHz~500MHz

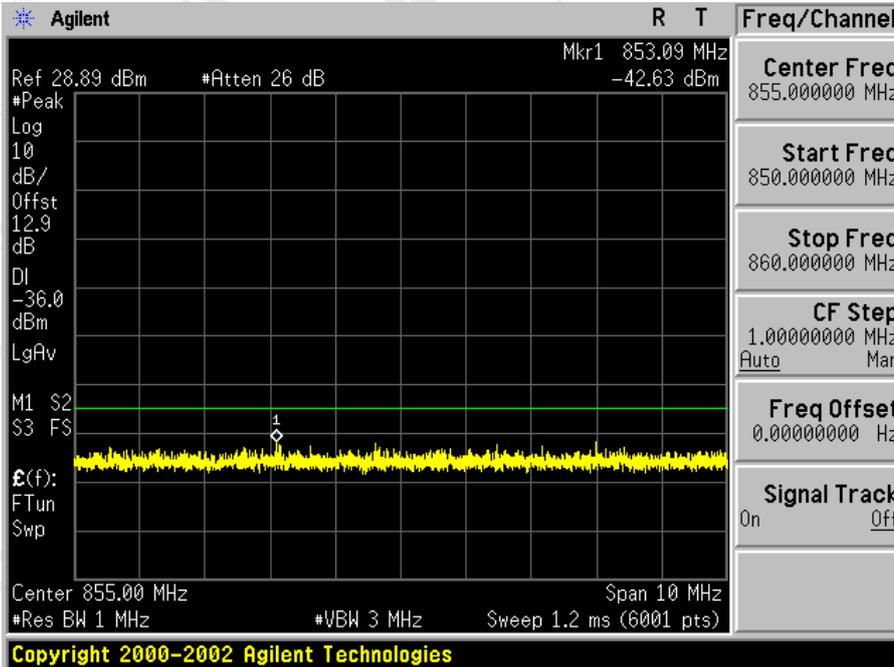


500MHz~850MHz

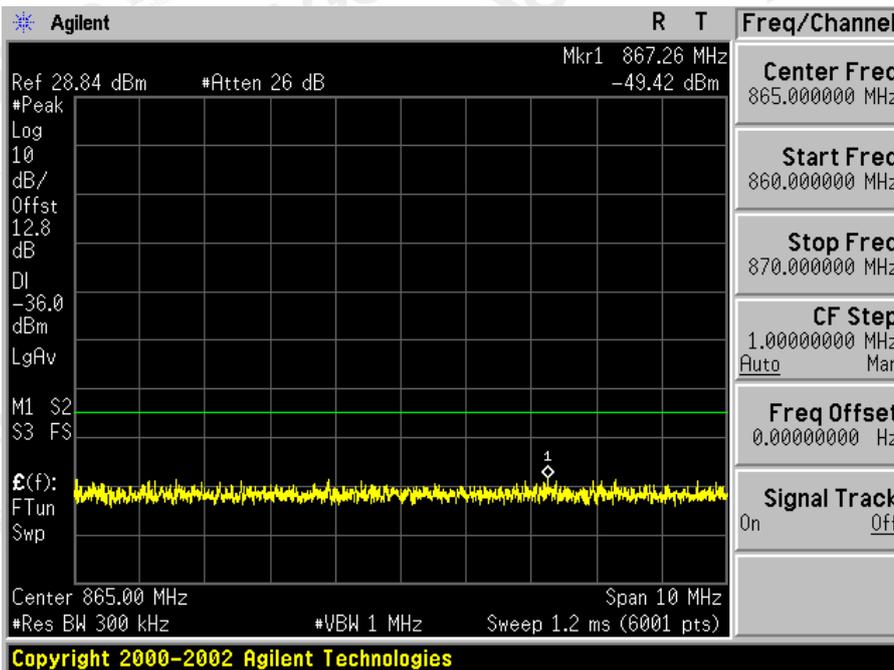


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850MHz~860MHz

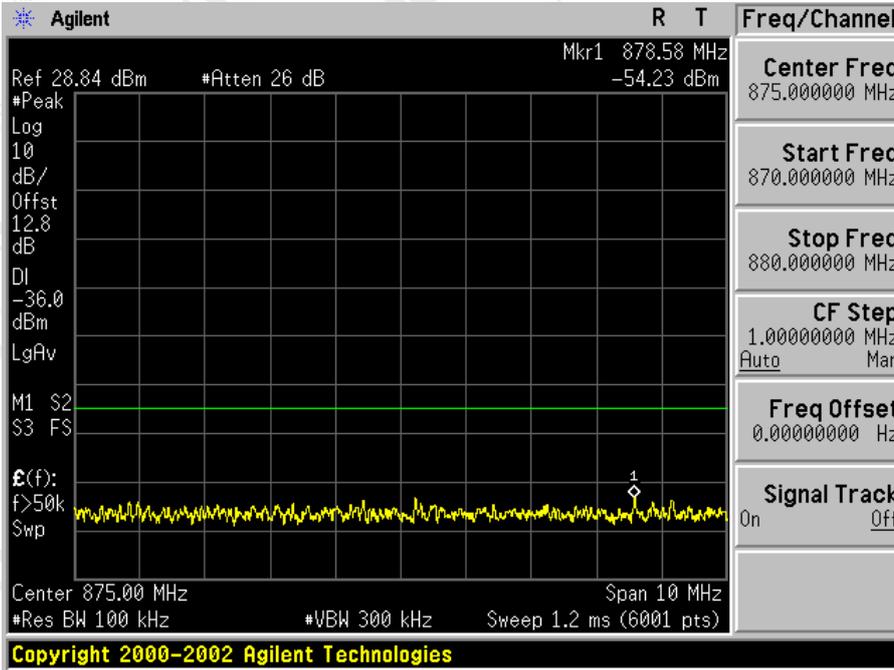


860MHz~870MHz

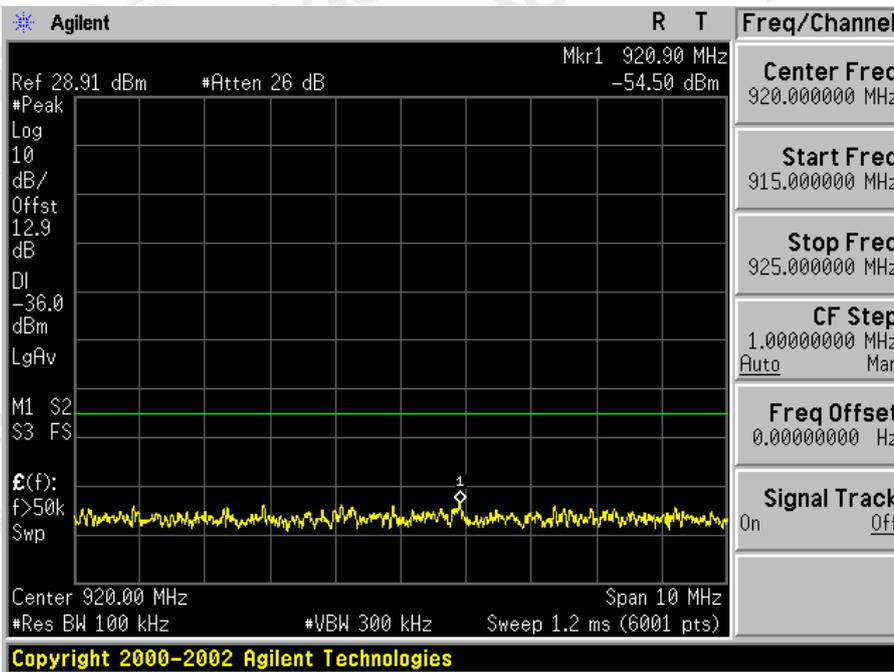


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870MHz~880MHz

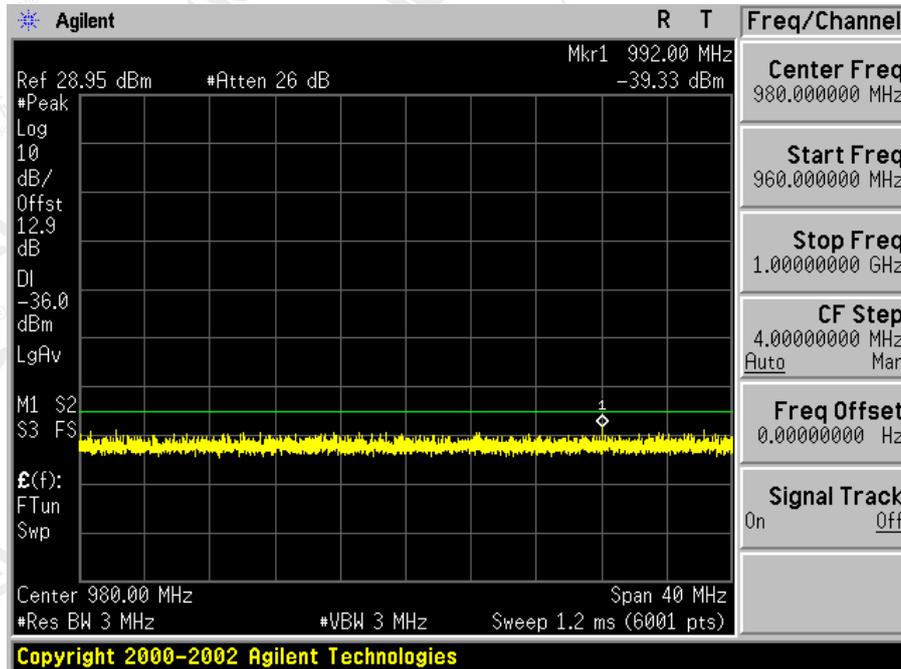


915MHz~925MHz

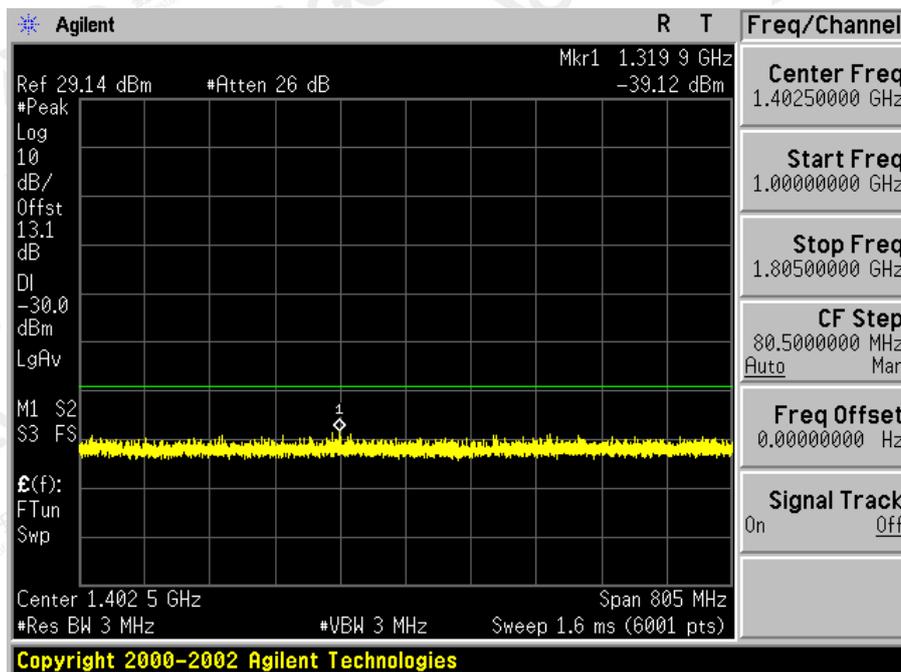


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960MHz~1GHz

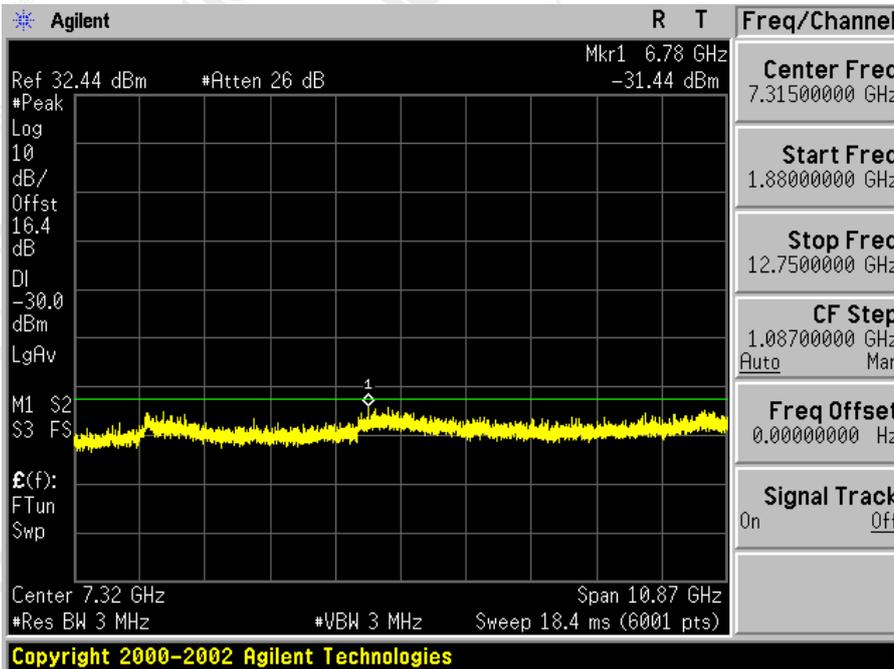


1GHz~1805MHz

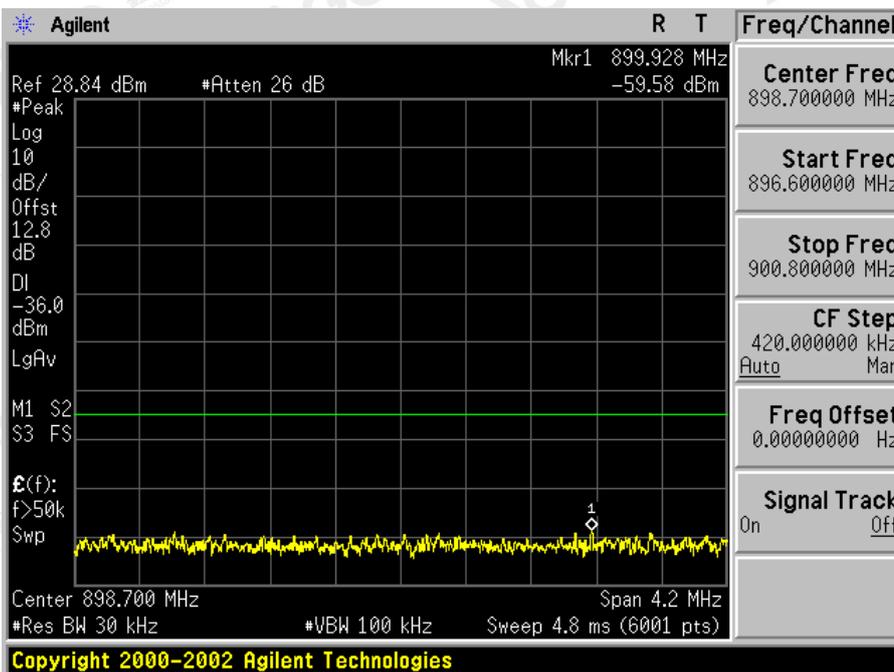


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1880MHz~12.75GHz

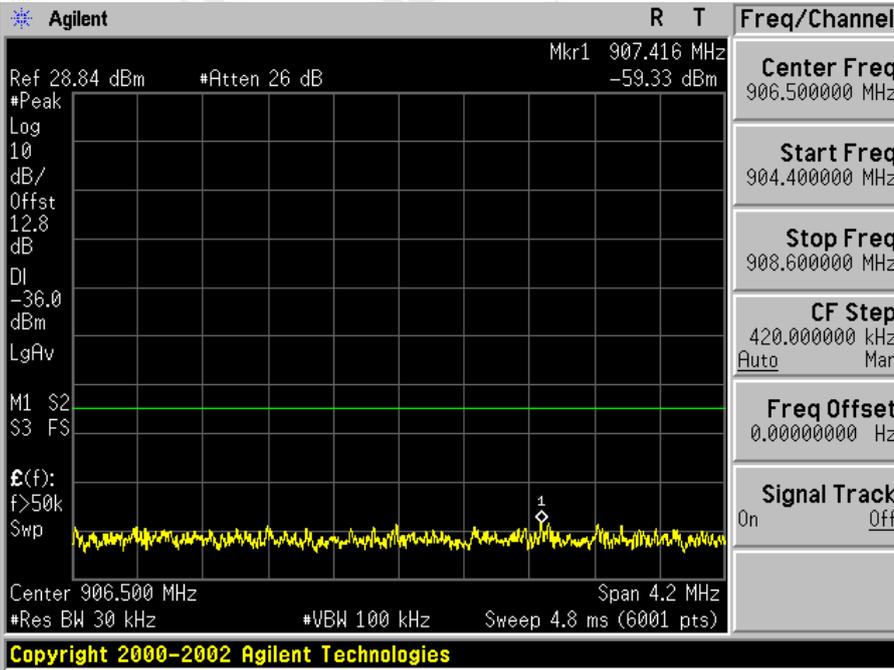


896.6MHz~900.8MHz

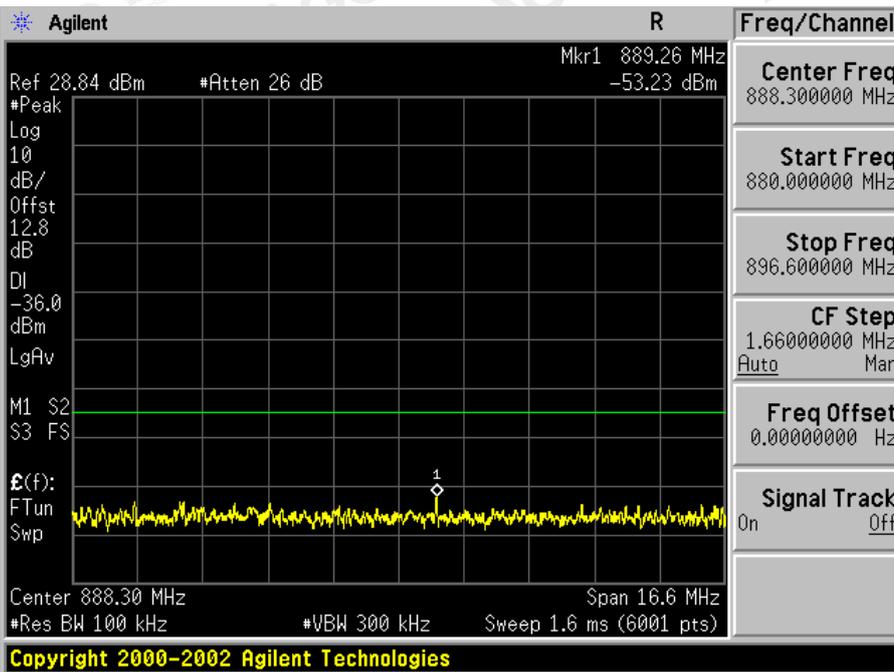


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904.4MHz~908.6MHz

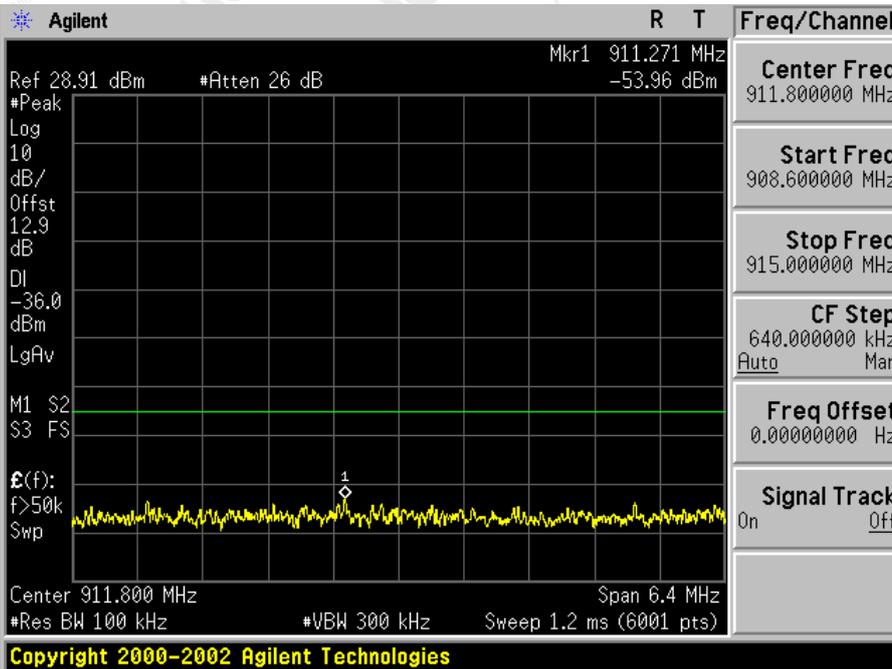


880MHz~896.6MHz



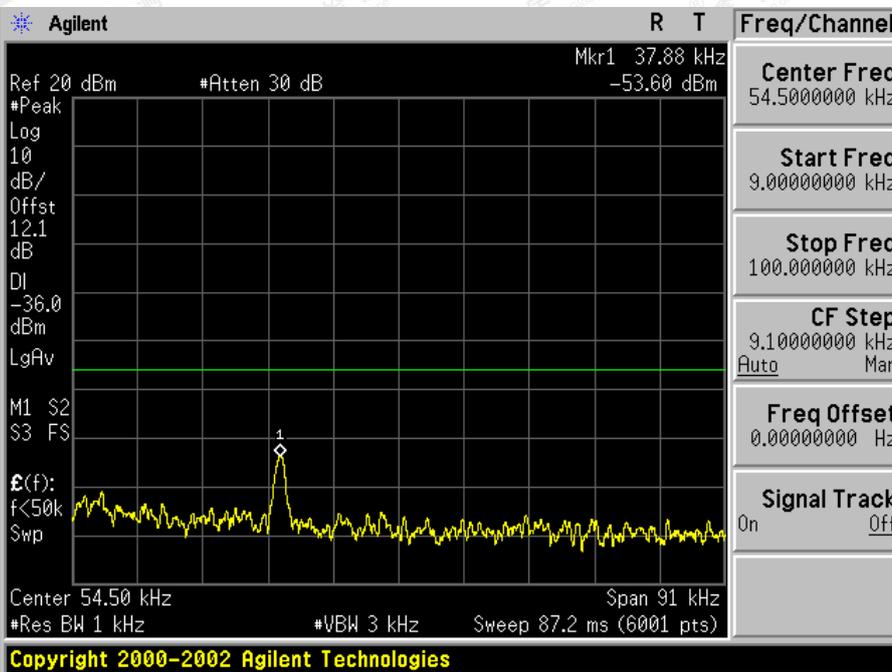
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908.6MHz~915MHz



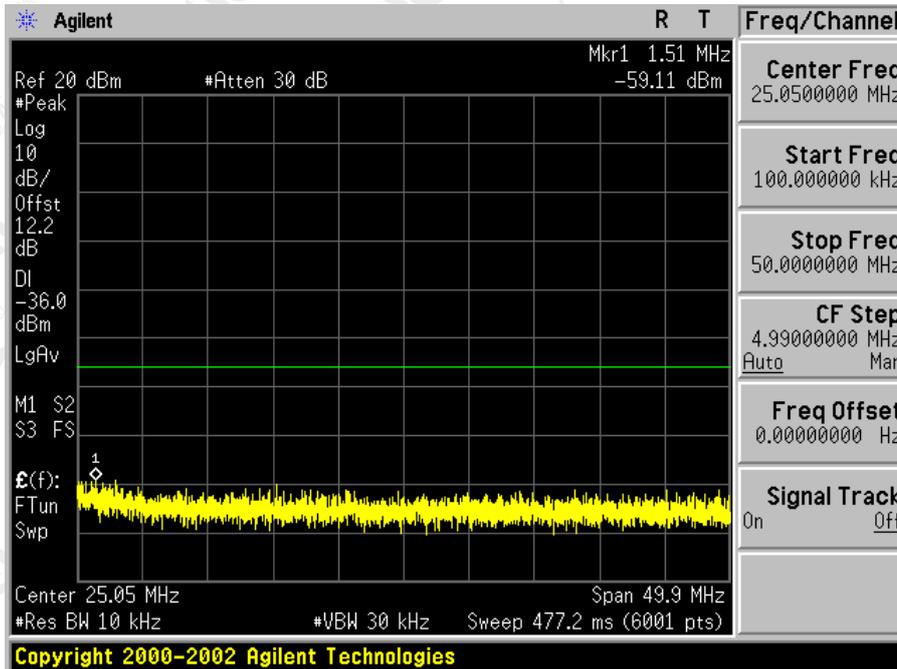
DCS1800: channel MCH VH

9kHz~100kHz

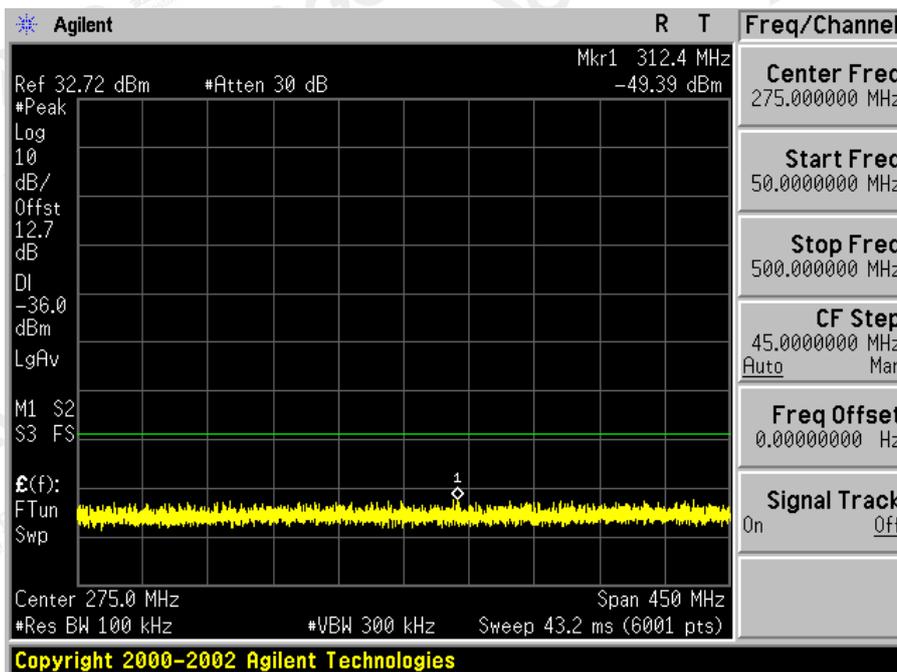


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100kHz~50MHz

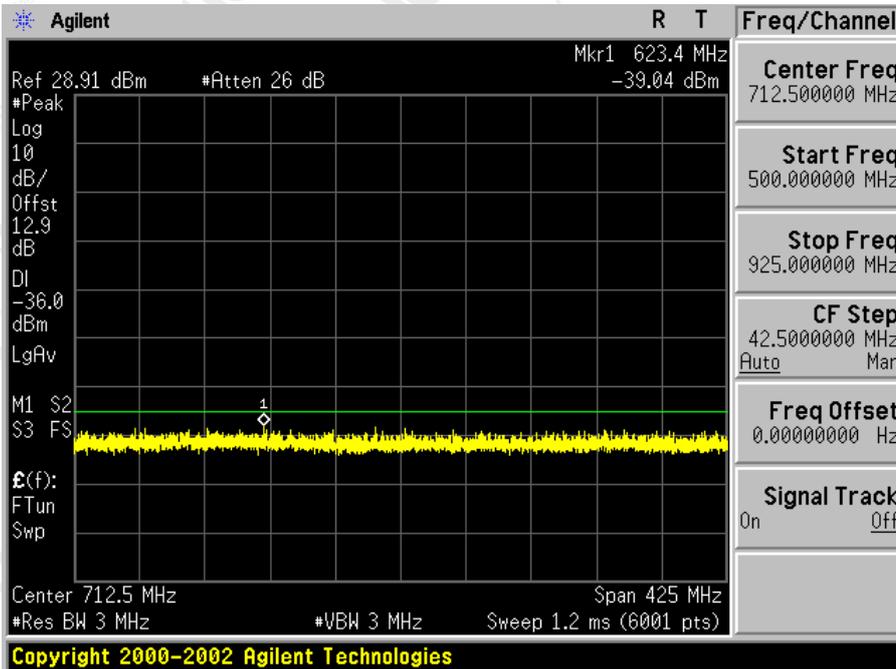


50MHz~500MHz

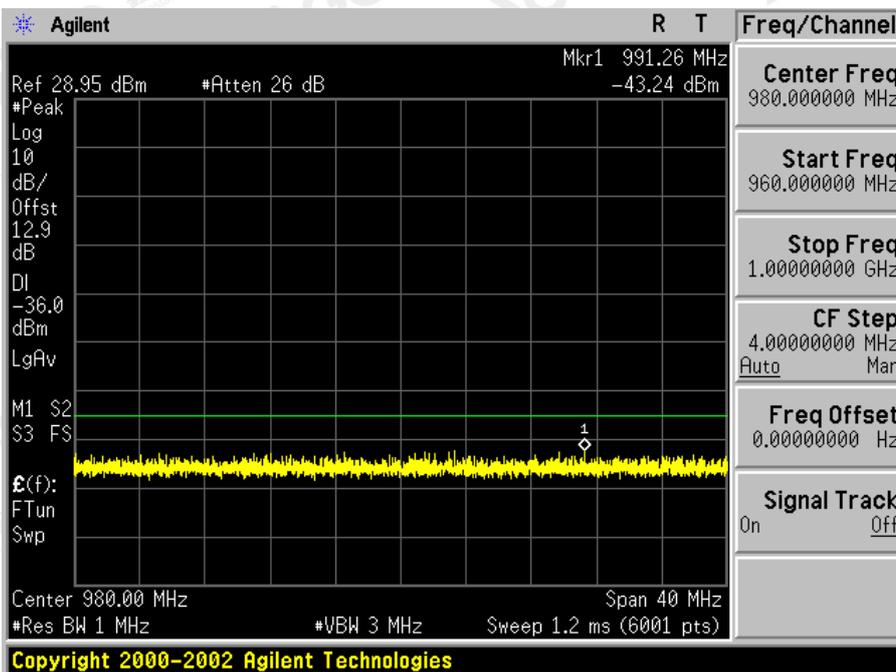


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500MHz~925MHz

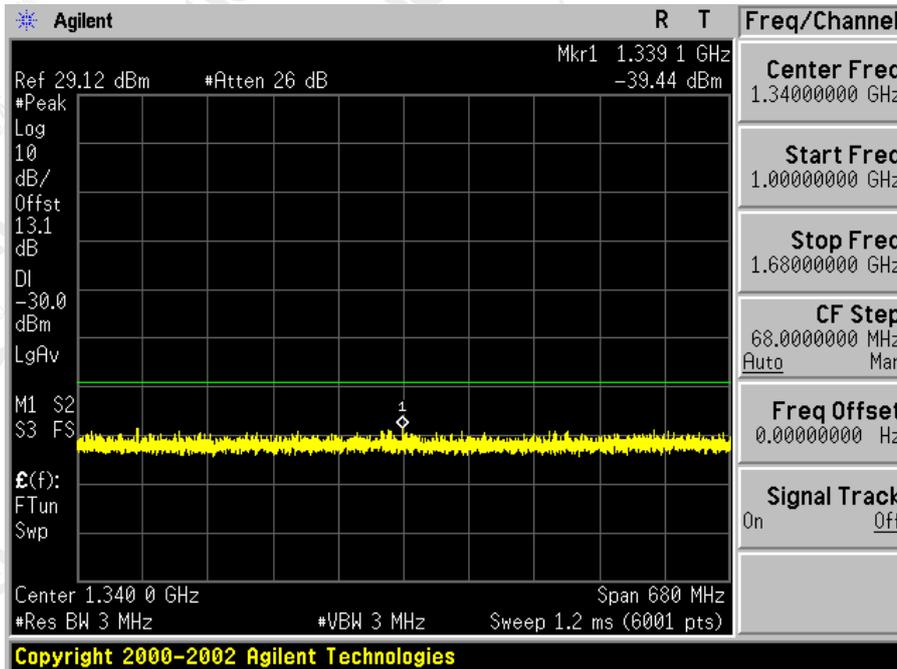


960MHz~1GHz

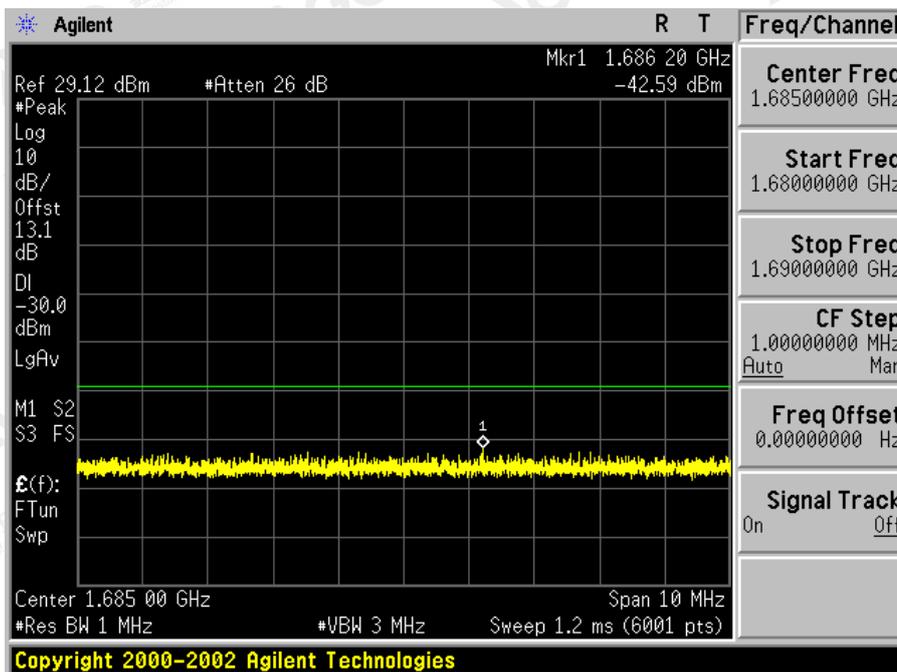


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1GHz~1680MHz

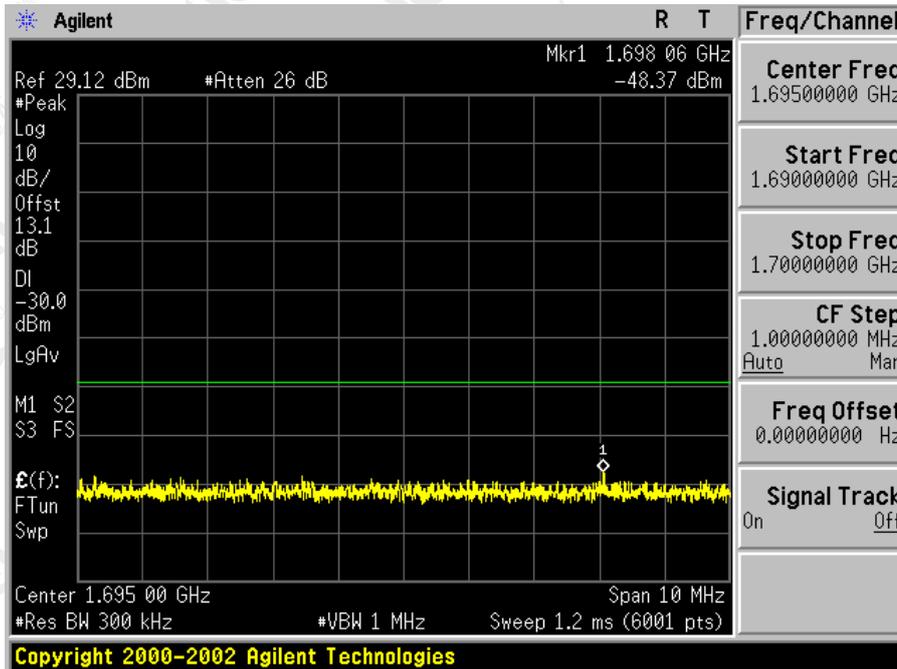


1680MHz~1690MHz

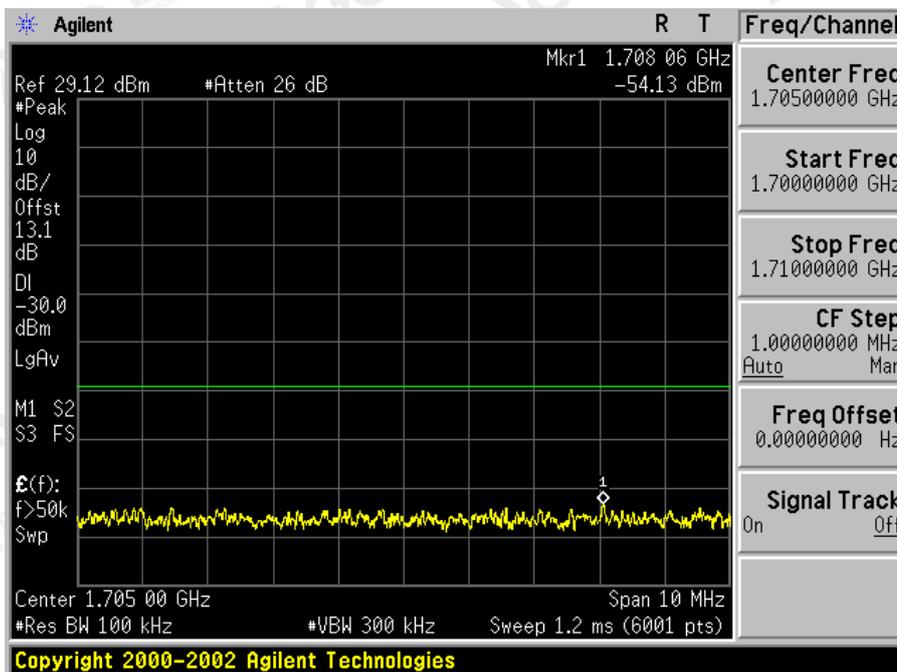


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1690MHz~1700MHz

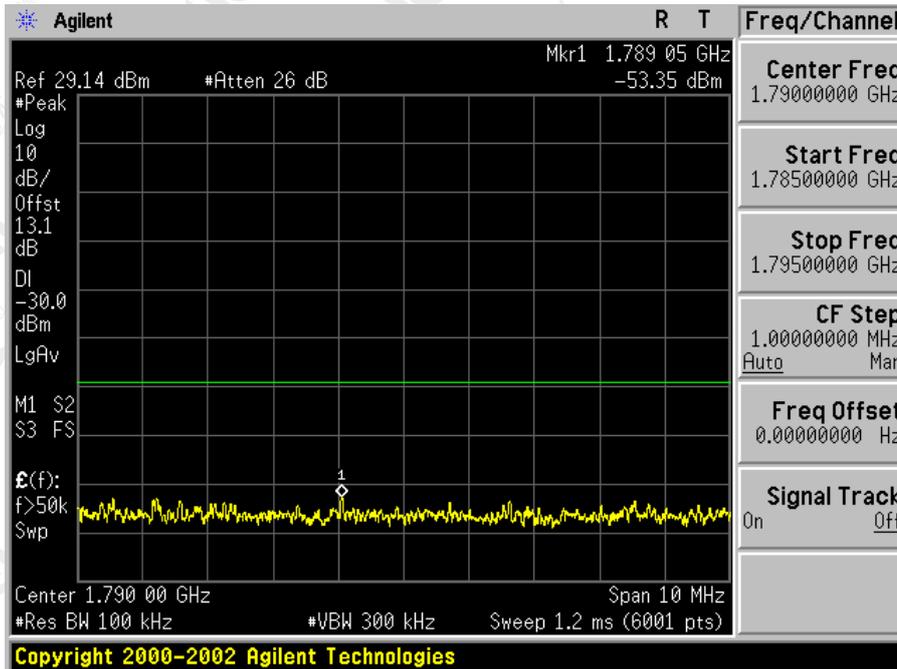


1700MHz~1710MHz

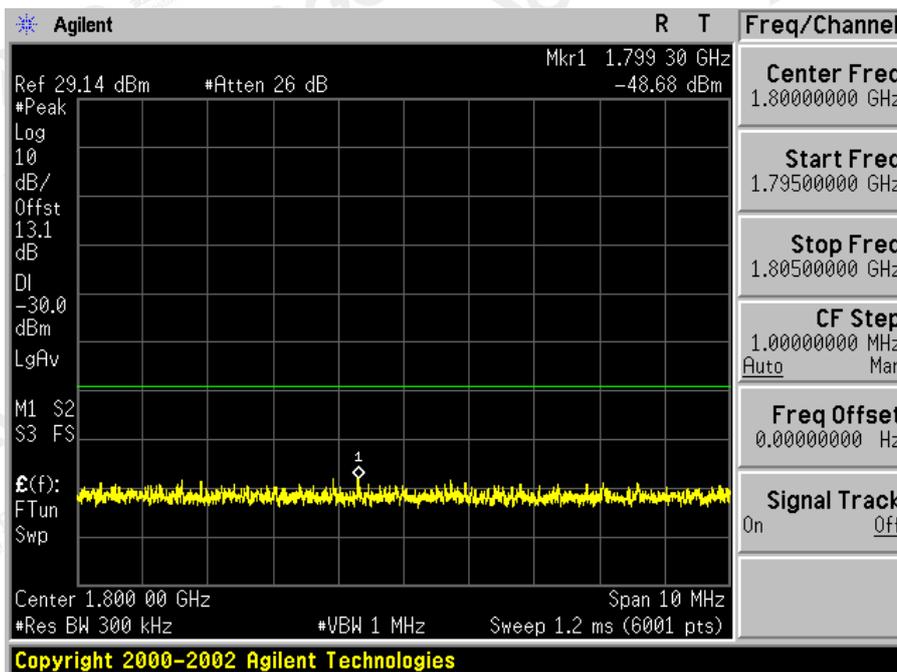


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1785MHz~1795MHz

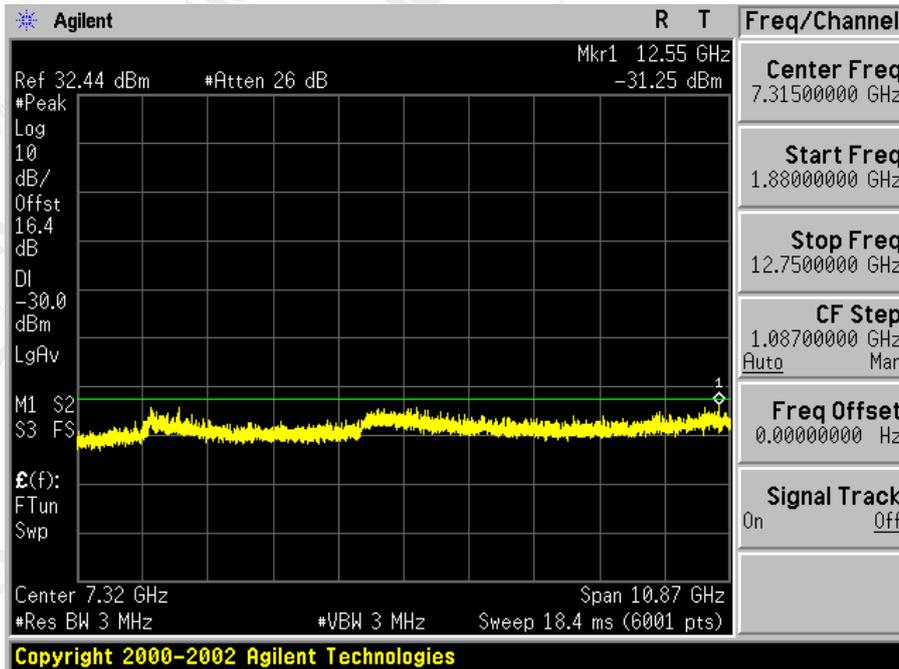


1795MHz~1805MHz

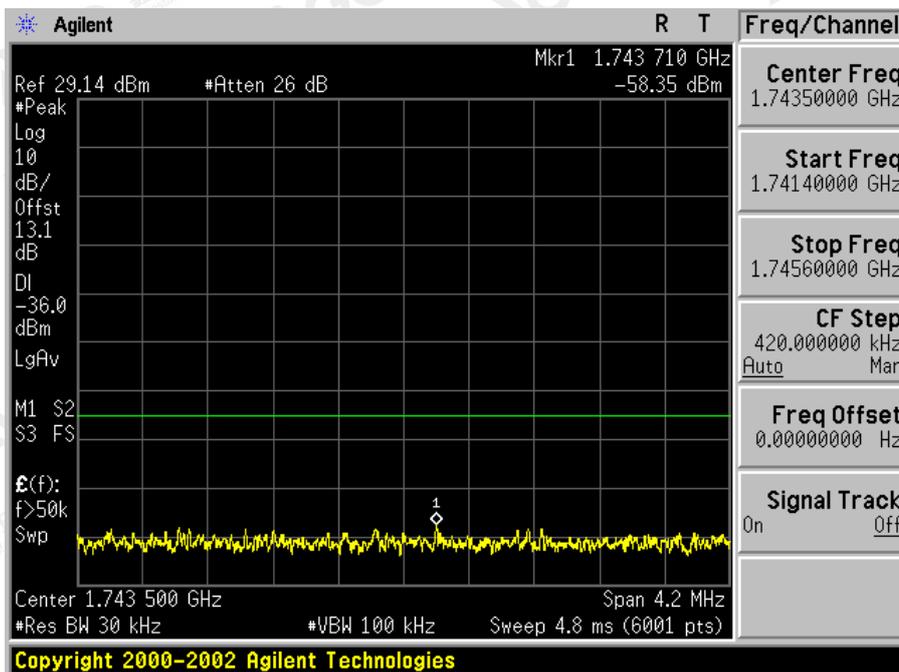


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1880MHz~12.75GHz

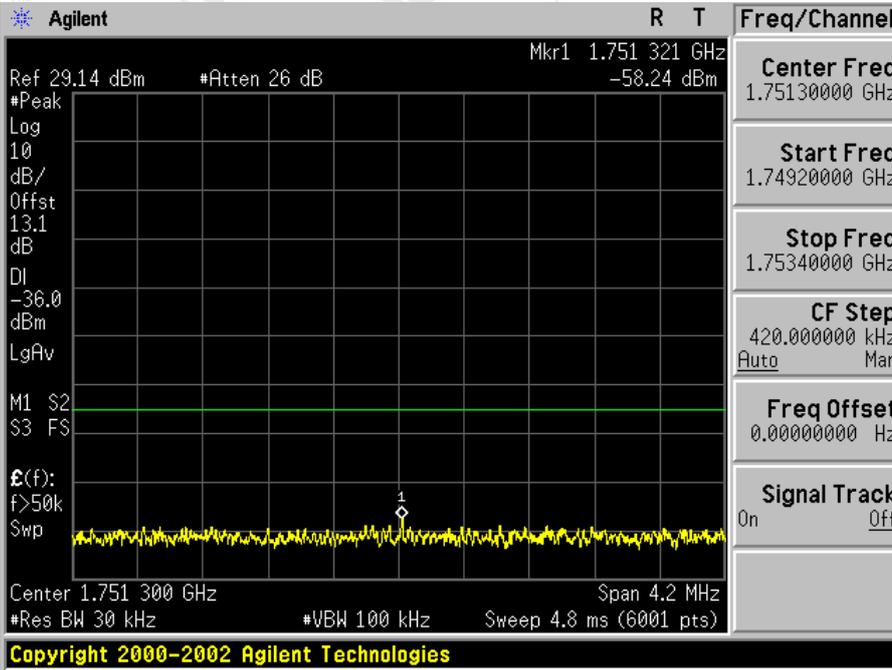


1741.4MHz~1745.6MHz

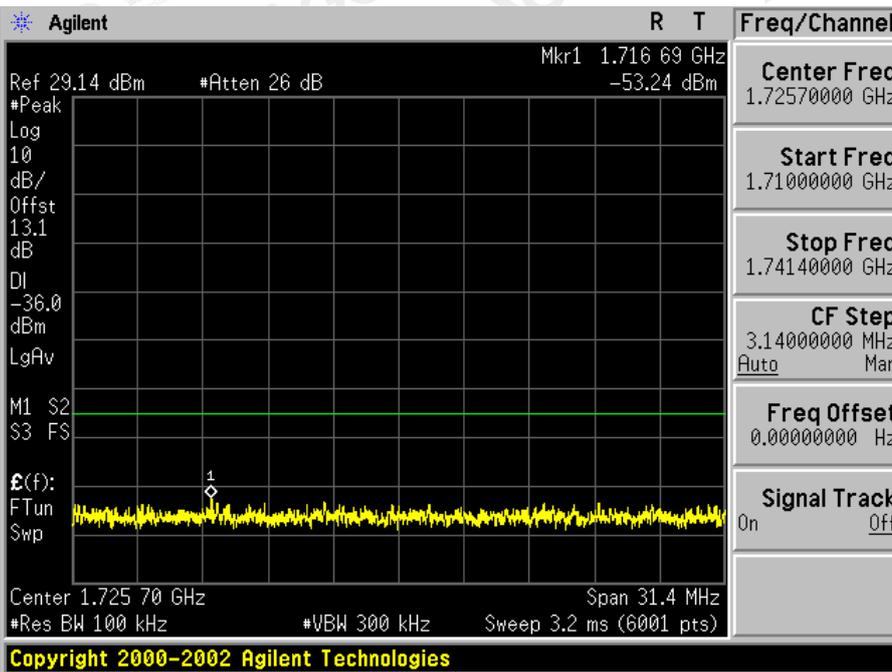


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1749.2MHz~1753.4MHz

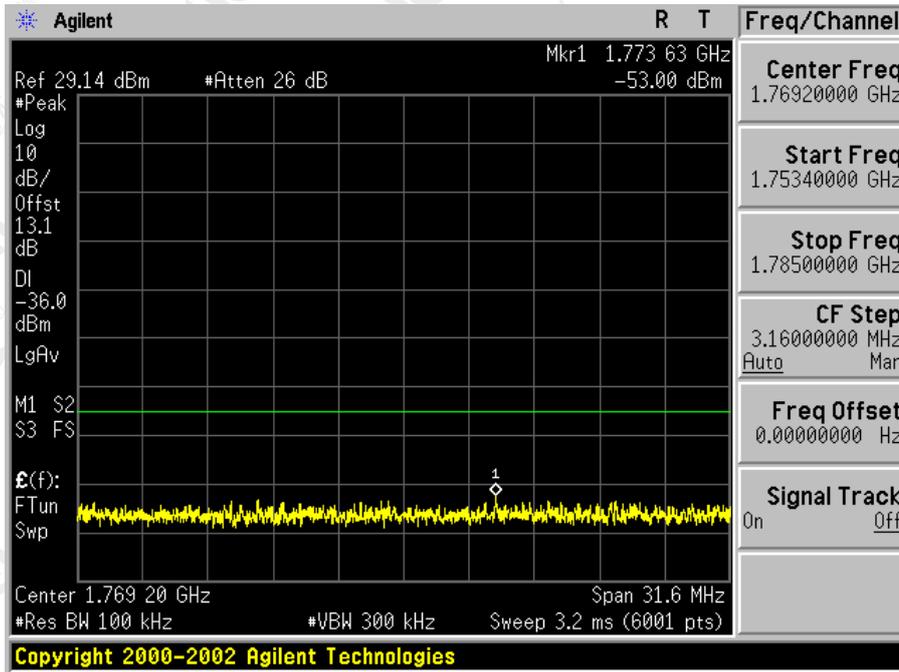


1710MHz~1741.4MHz



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1753.4MHz~1785MHz



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Appendix I. Conducted spurious emissions- MS in idle mode

Note: All the modes had been tested, but only the worst data recorded in the report.

Conducted spurious emissions		GSM900;VL		
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
9kHz~100kHz	1k	-57	-58.01	PASS
100kHz~50MHz	10k	-57	-62.82	PASS
50MHz~880MHz	100k	-57	-59.47	PASS
880MHz~915MHz	100k	-59	-59.71	PASS
915MHz~1000MHz	100k	-57	-59.51	PASS
1GHz~1710MHz	100k	-47	-52.94	PASS
1710MHz~1785MHz	100k	-53	-53.65	PASS
1785MHz~12.75GHz	100k	-47	-54.11	PASS

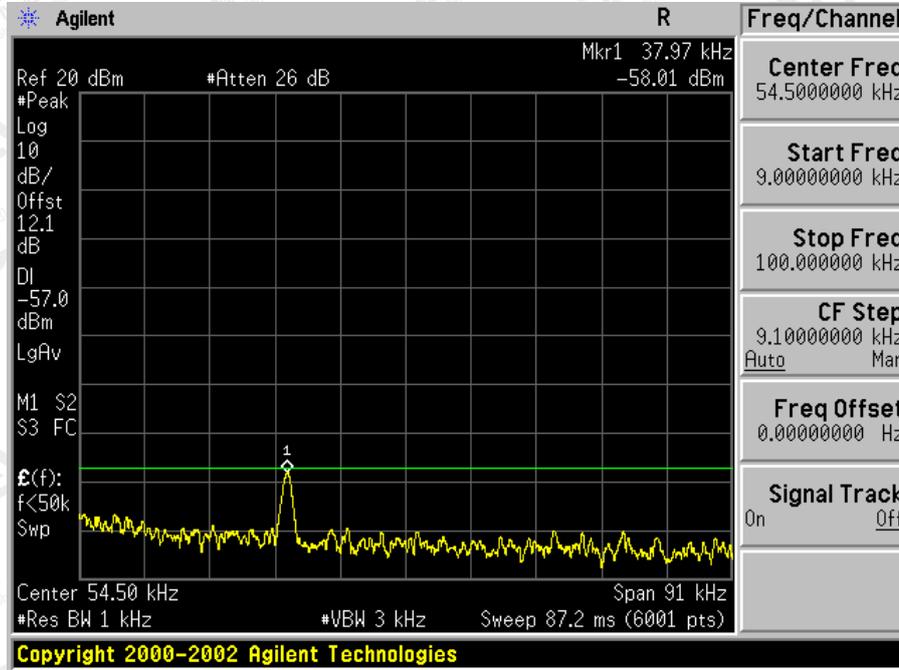
Conducted spurious emissions		DCS1800;VL		
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
9kHz~100kHz	1k	-57	-57.03	PASS
100kHz~50MHz	10k	-57	-60.63	PASS
50MHz~880MHz	100k	-57	-58.55	PASS
880MHz~915MHz	100k	-59	-63.49	PASS
915MHz~1000MHz	100k	-57	-59.38	PASS
1GHz~1710MHz	100k	-47	-52.63	PASS
1710MHz~1785MHz	100k	-53	-56.97	PASS
1785MHz~12.75GHz	100k	-47	-60.63	PASS

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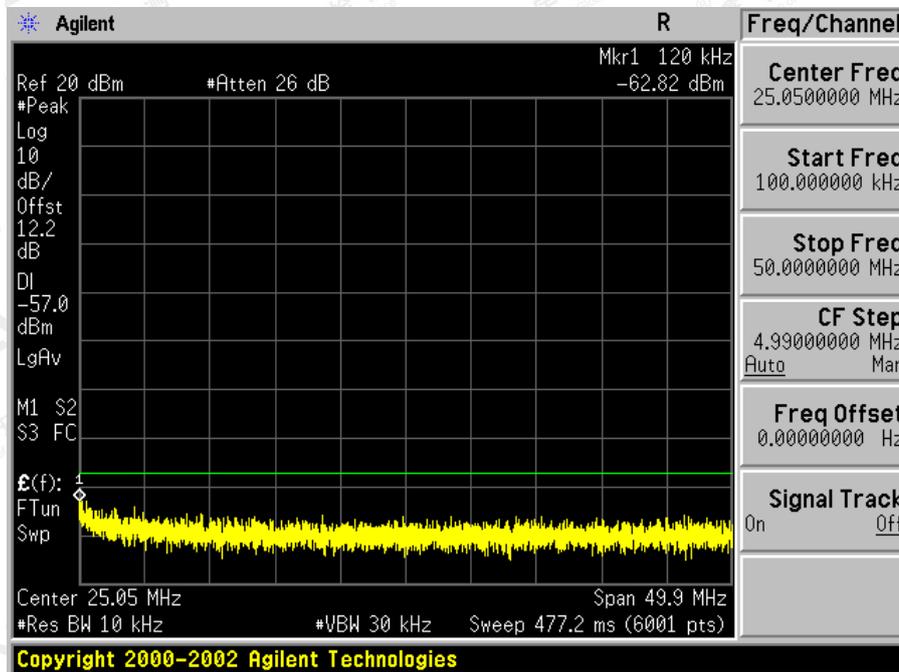
Graphs of conducted spurious emission-MS in idle mode

GSM900: channel MCH VL

9kHz~100kHz

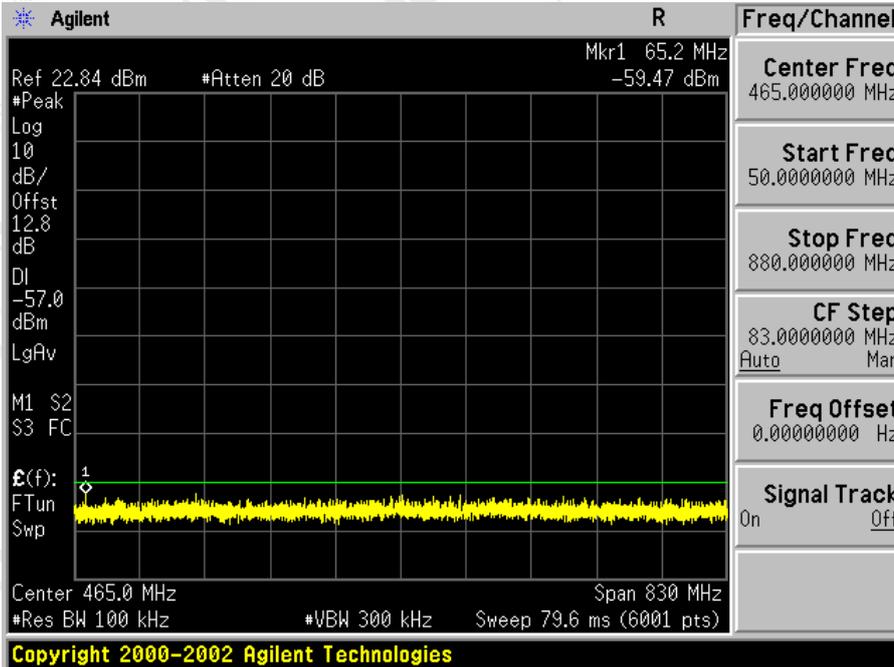


100kHz~50MHz

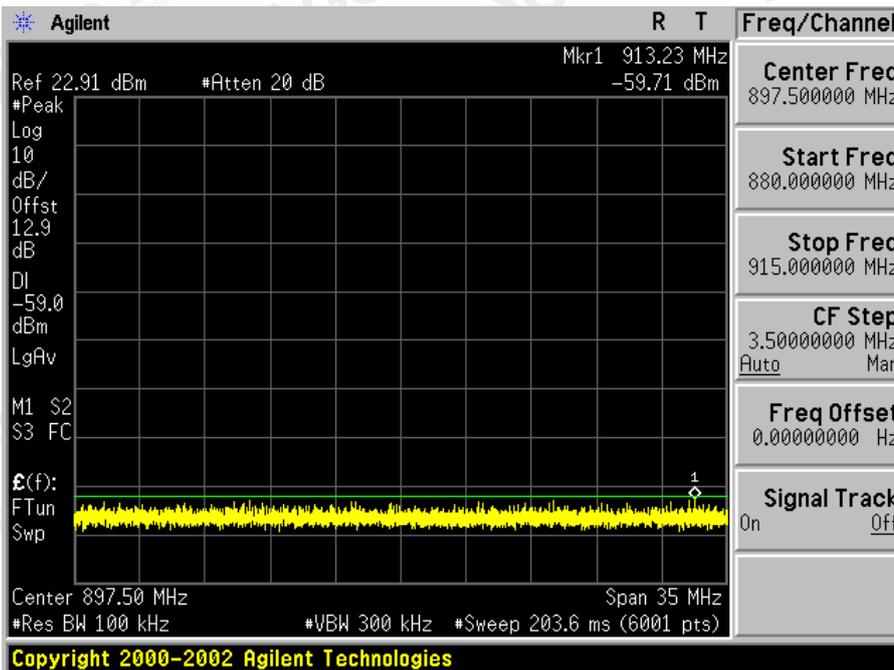


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50MHz~880MHz

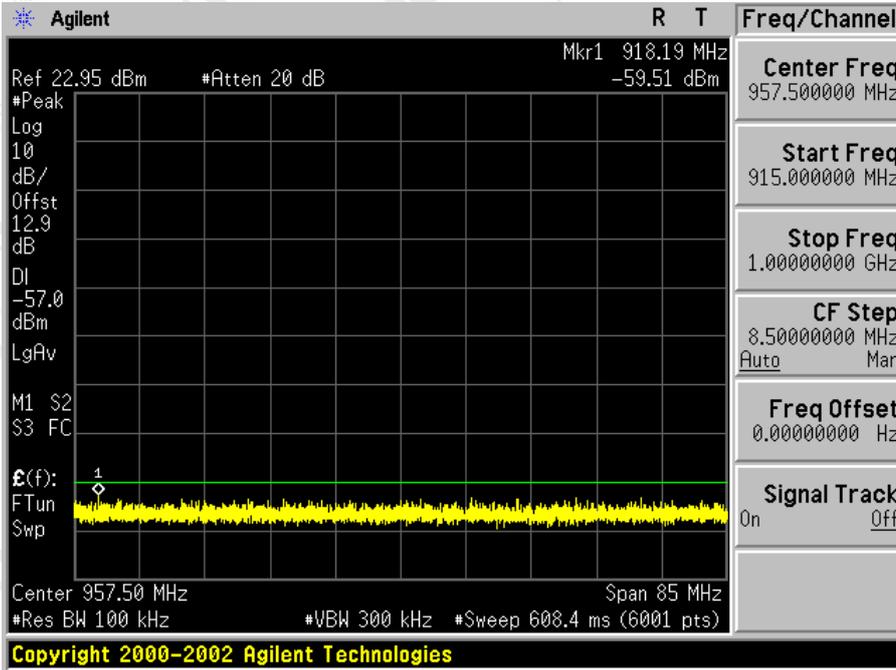


880MHz~915MHz

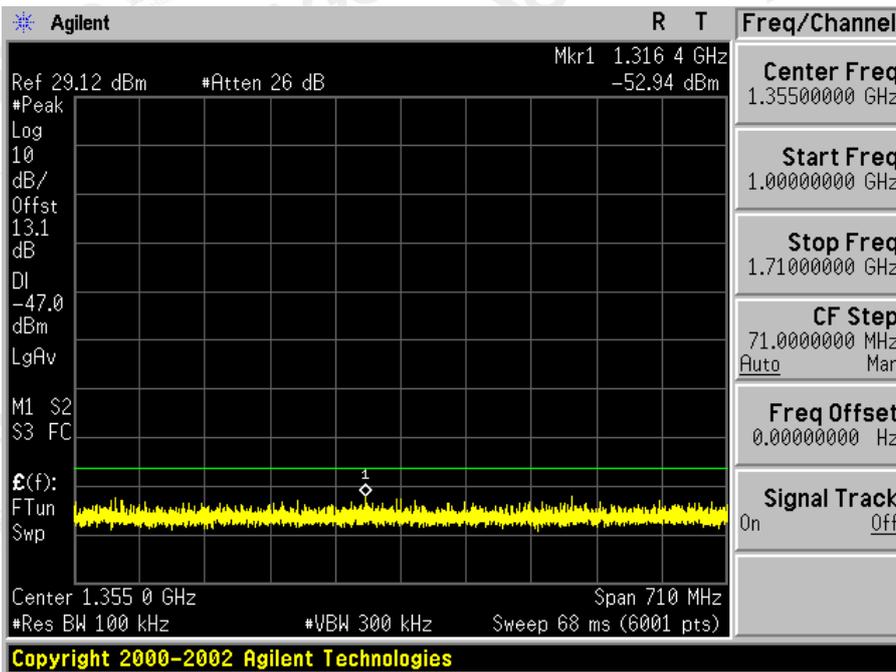


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915MHz~1000MHz

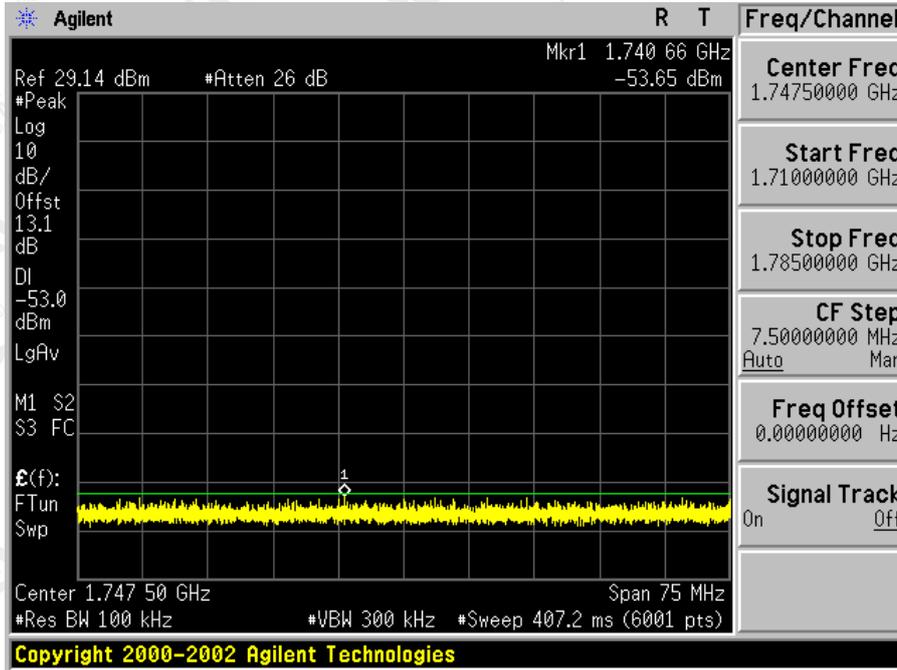


1GHz~1710MHz

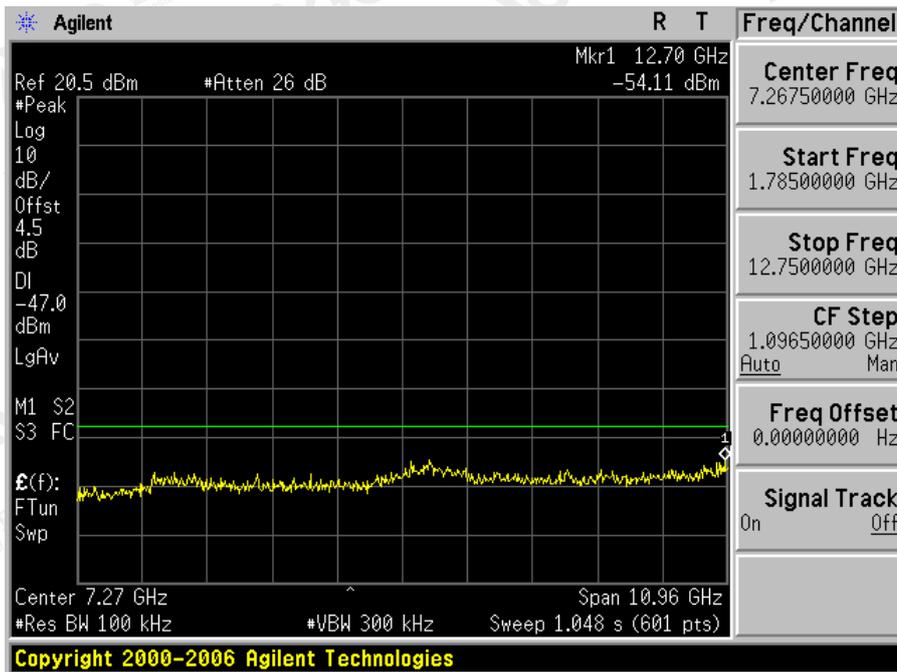


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1710MHz~1785MHz



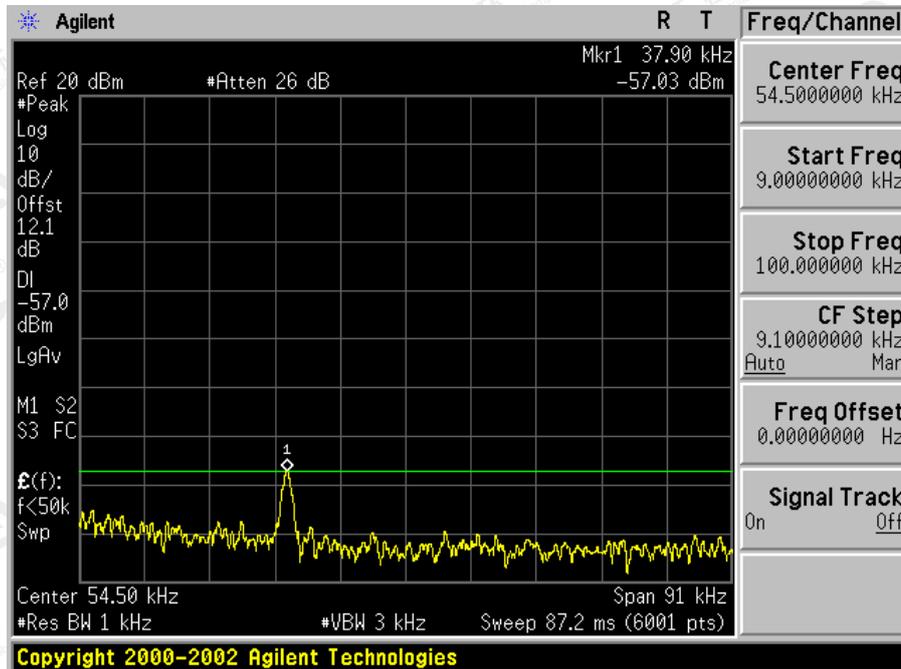
1785MHz~12.75GHz



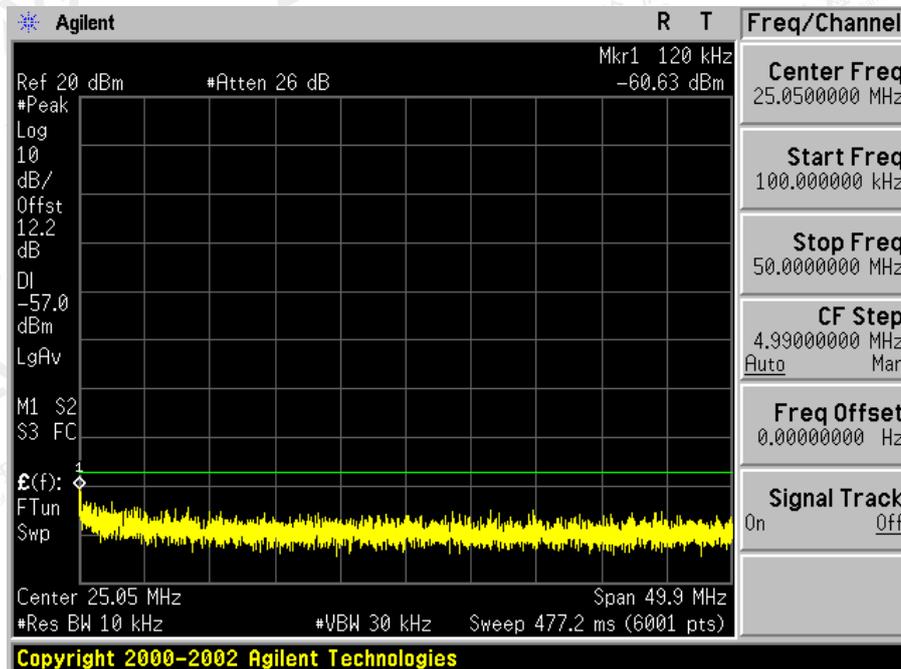
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DCS1800: channel MCH VL

9kHz~100kHz

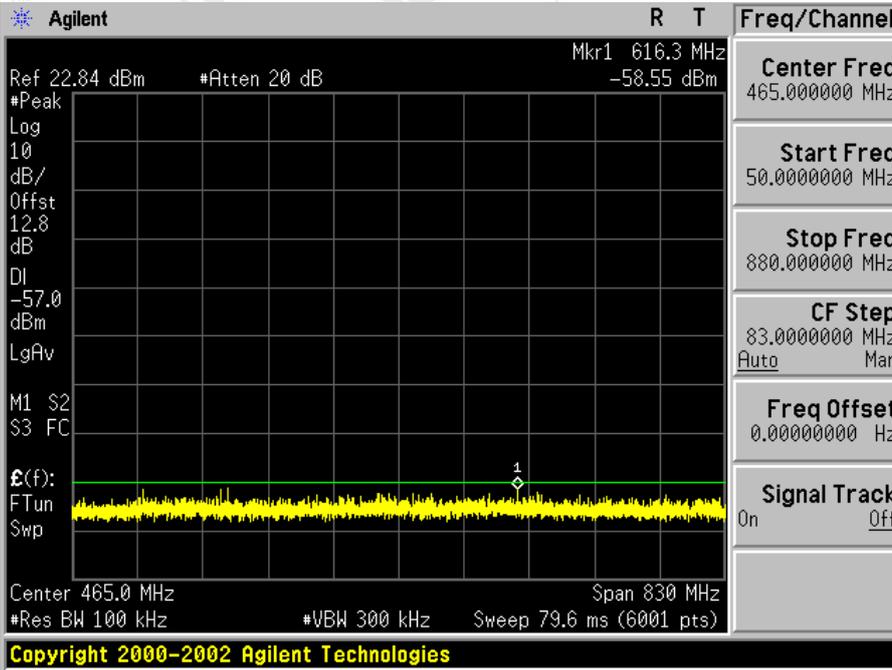


100kHz~50MHz

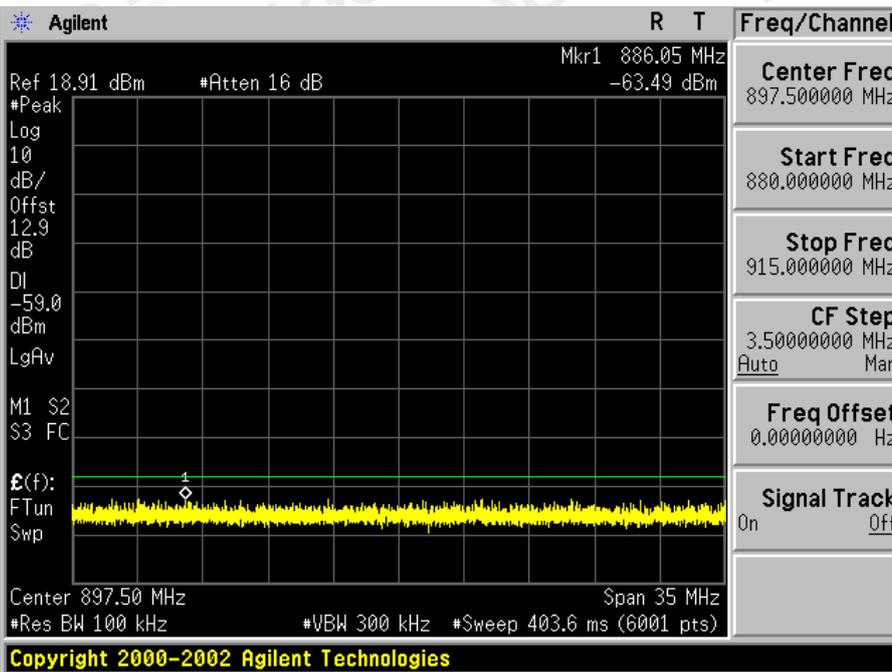


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50MHz~880MHz

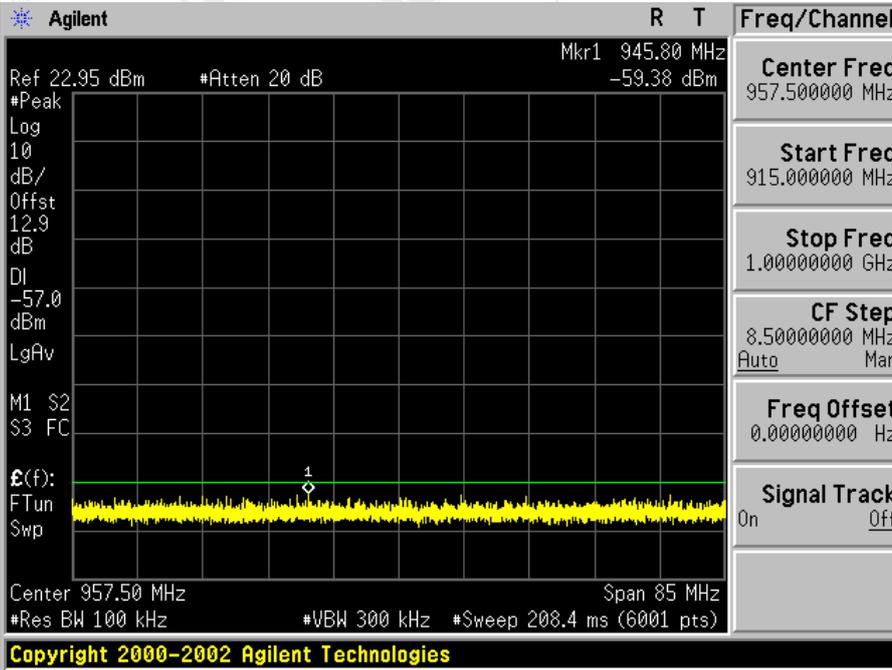


880MHz~915MHz

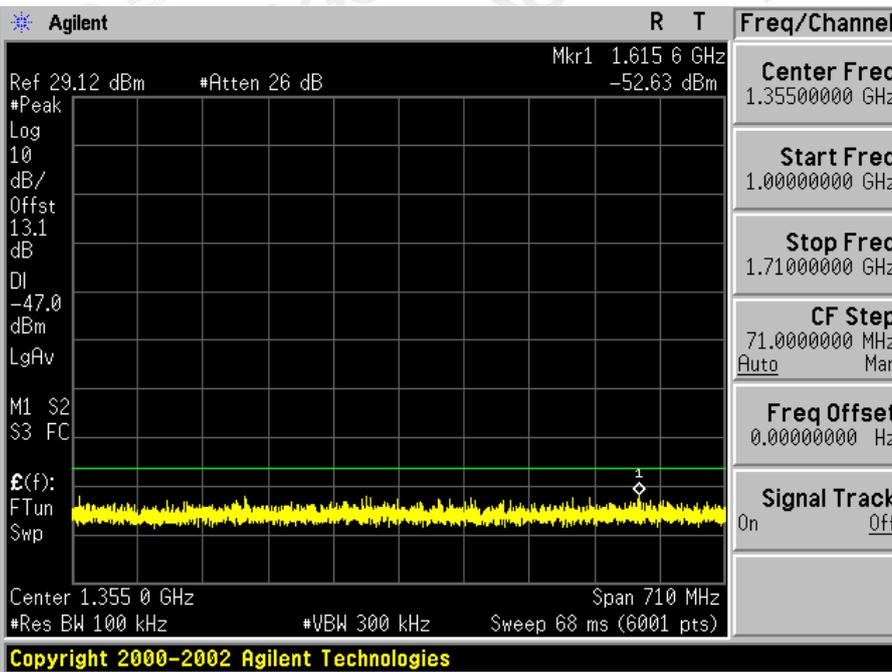


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915MHz~1000MHz

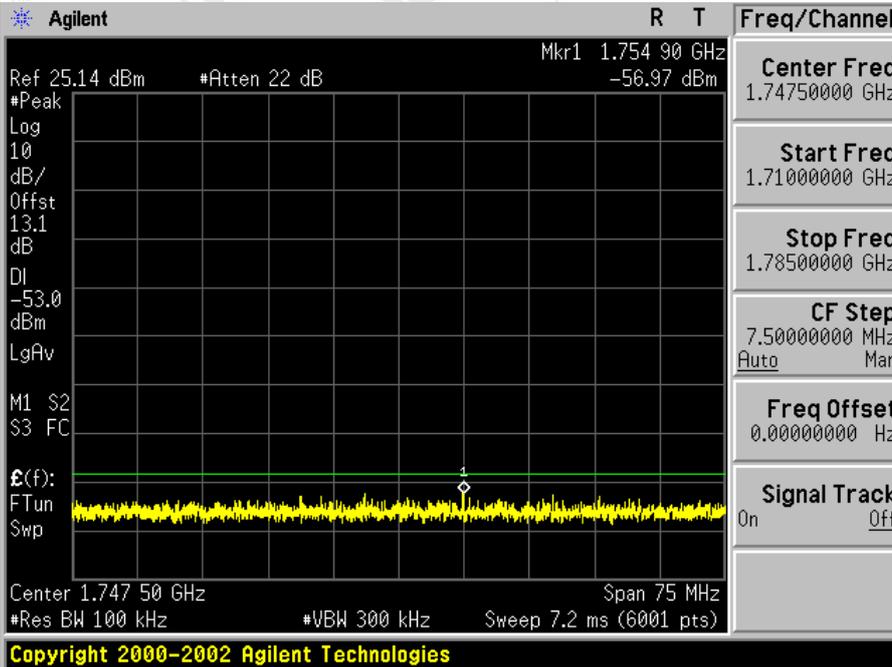


1GHz~1710MHz

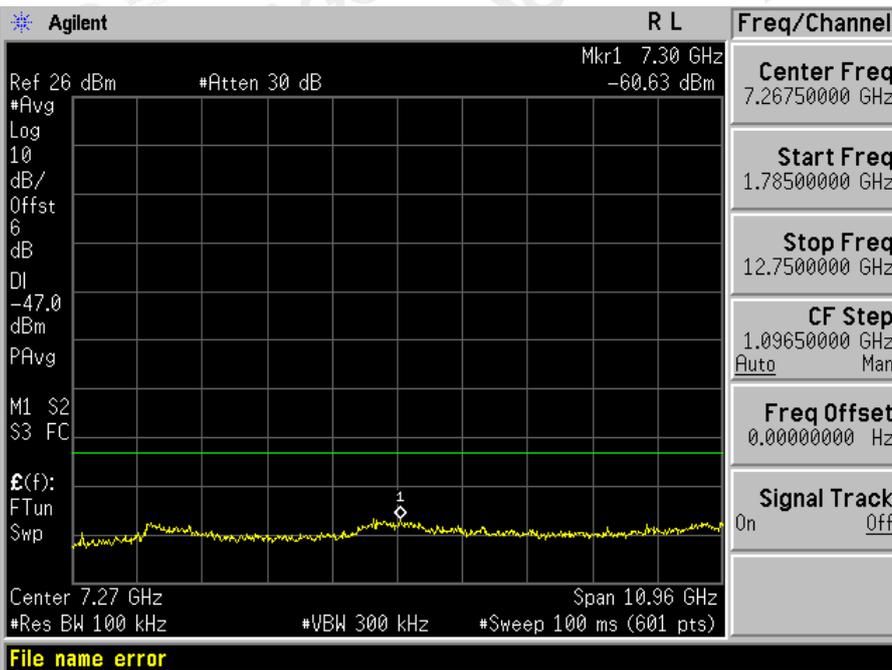


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1710MHz~1785MHz



1785MHz~12.75GHz



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Appendix J. Receiver Blocking and spurious response – speech channel
GSM900

FREQUENCY	Measurement Result	
	GSM900	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1,6 MHz	70	PASS
FR +/- 1,6 MHz to FR +/- 3 MHz	80	PASS
915 MHz to FR - 3 MHz	90	PASS
FR + 3 MHz to 980 MHz	90	PASS
835 MHz to <915 MHz	113	PASS
>980 MHz to 1000 MHz	113	PASS
100 kHz to <835 MHz	90	PASS
>1000 MHz to 12,75 GHz	90	PASS

DCS1800

FREQUENCY	Measurement Result	
	DCS1800	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1,6 MHz	70	PASS
FR +/- 1,6 MHz to FR +/- 3 MHz	80	PASS
1785 MHz to FR - 3 MHz	87	PASS
FR + 3 MHz to 1920 MHz	87	PASS
100 kHz to 1705 MHz	113	PASS
>1705 MHz to <1785 MHz	101	PASS
>1920 MHz to 1980 MHz	101	PASS
>1980 MHz to 12,75 GHz	90	PASS

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Appendix K. Frequency error and Modulation accuracy in EGPRS Configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

TH,VH			≤9%	≤15%	≤30%	≤10E-7	Result
BAND	ARFCN	PCL	RMS EVM	the 95% EVM	Peak EVM	Frequency error	
GSM900	LCH	8	1.3	2.3	4.1	20	PASS
		19	0.5	1.0	1.4	21	PASS
	MCH	8	1.3	2.3	4.1	17	PASS
		19	0.5	1.0	1.4	18	PASS
	HCH	8	1.2	2.1	3.4	21	PASS
		19	0.6	1.1	1.6	22	PASS

DCS1800

TN,VN			≤9%	≤15%	≤30%	≤10E-7	Result
BAND	ARFCN	PCL	RMS EVM	the 95% EVM	Peak EVM	Frequency error	
DCS1800	LCH	2	1.8	3.2	4.9	24	PASS
		14	1.7	3.1	4.7	25	PASS
	MCH	2	1.6	2.9	4.6	33	PASS
		14	1.5	2.8	4.5	31	PASS
	HCH	2	1.4	2.6	4.0	34	PASS
		14	1.3	2.7	3.6	26	PASS

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Appendix L. Frequency error under multipath and interference conditions in EGRS Configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

Fading set	Test conditions	Result			
		GSM900			
		ARFCN			
		LCH	MCH	HCH	Result
RA250	TLVH	16	12	18	PASS
HT100	TLVL	22	10	18	PASS
TU50	TLVH	20	10	18	PASS
TU3	TLVH	19	19	19	PASS

DCS1800

Fading set	Test conditions	Result			
		DCS1800			
		ARFCN			
		LCH	MCH	HCH	Result
RA130	TLVH	33	28	35	PASS
HT100	THVL	38	30	37	PASS
TU50	TLVH	36	27	35	PASS
TU1.5	THVH	34	25	35	PASS

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Appendix M. EGPRS Transmitter output power

Note: All the modes had been tested, but only the worst data recorded in the report.

A. output power

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
GSM900		LCH	MCH	HCH	Result
TH,VH	8	24.28	24.00	23.42	PASS
	12	20.28	19.99	19.39	PASS
	19	5.79	5.64	5.04	PASS

Transmitter Output power(dBm)	Power level	Result			
		Traffic Channels			
DCS1800		LCH	MCH	HCH	Result
TH,VH	2	21.13	20.87	21.39	PASS
	8	14.54	14.47	14.31	PASS
	15	-0.26	-0.98	-0.66	PASS

B. Power VS Time

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
GSM900	Power level	LCH	MCH	HCH
TH,VH	8	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Power VS Time Graph	ACCESS BURST	Result		
		Traffic Channels		
DCS1800	Power level	LCH	MCH	HCH
TH,VH	2	PASS	PASS	PASS

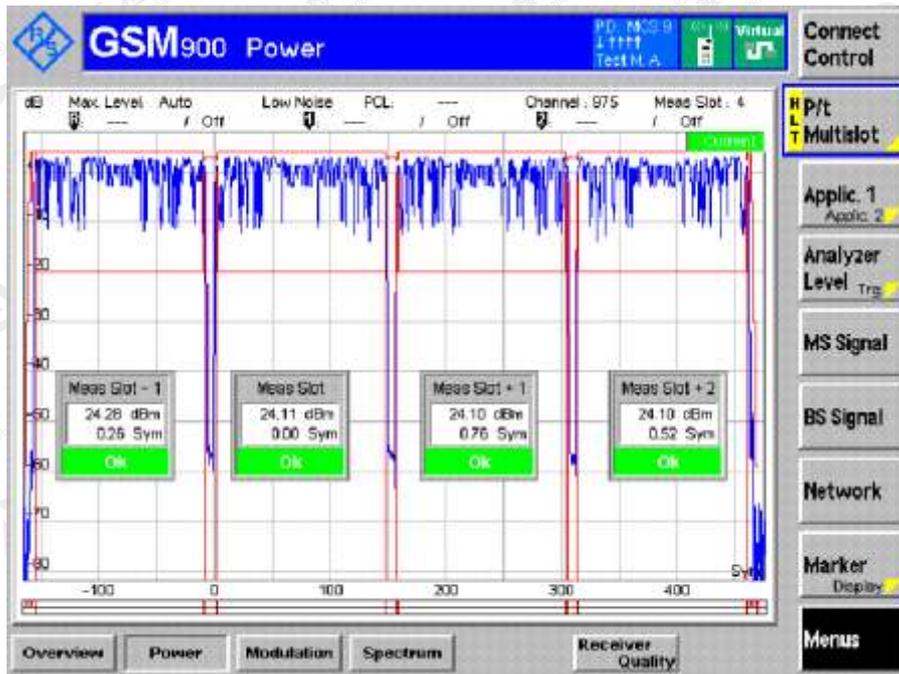
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	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

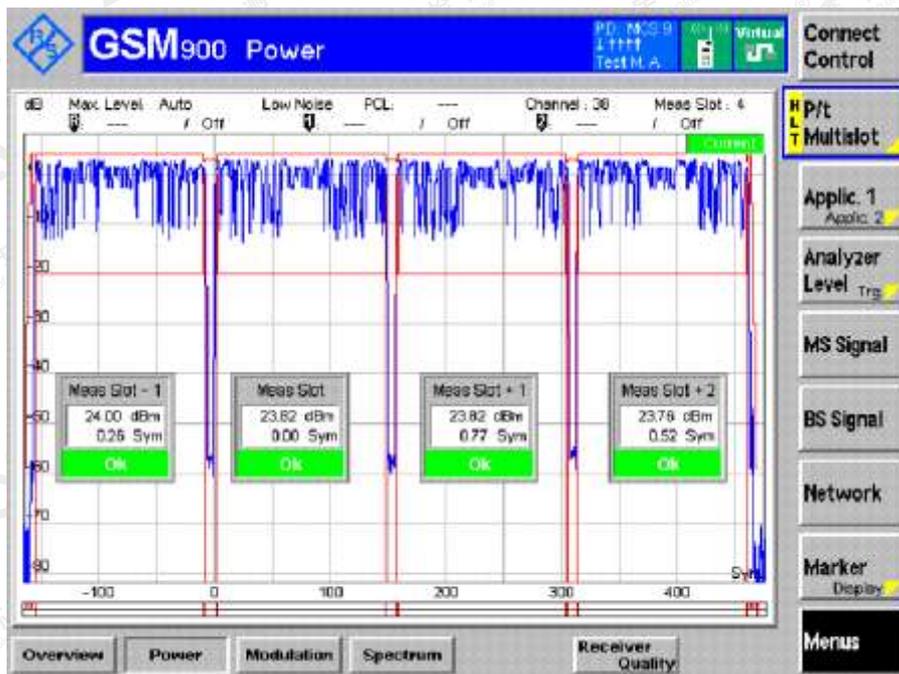
Graphs of EGPRS Transmitter output power

GSM 900 TH,VH

Channel LCH PCL 8

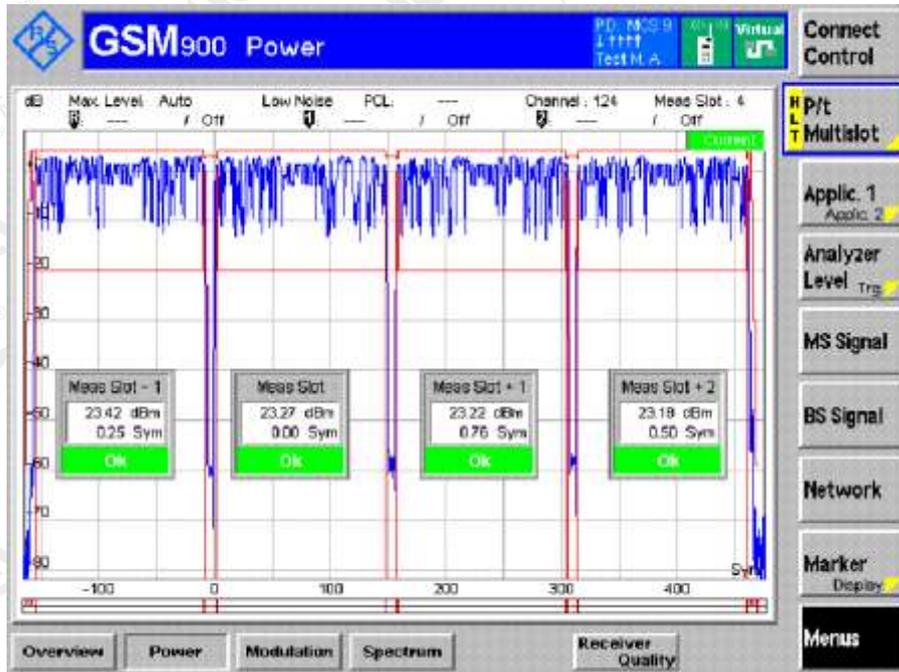


Channel MCH PCL 8

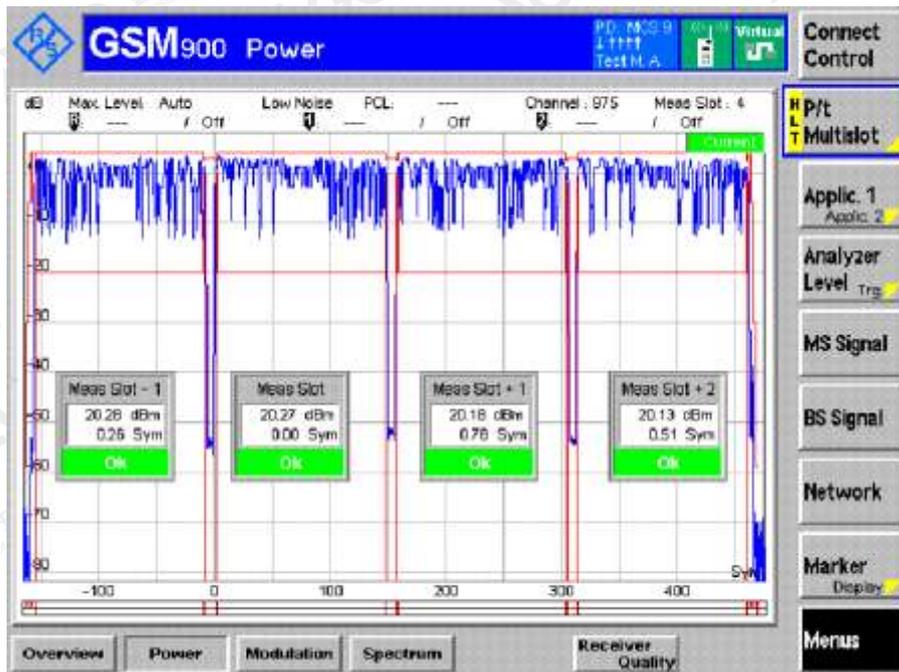


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Channel HCH PCL 8

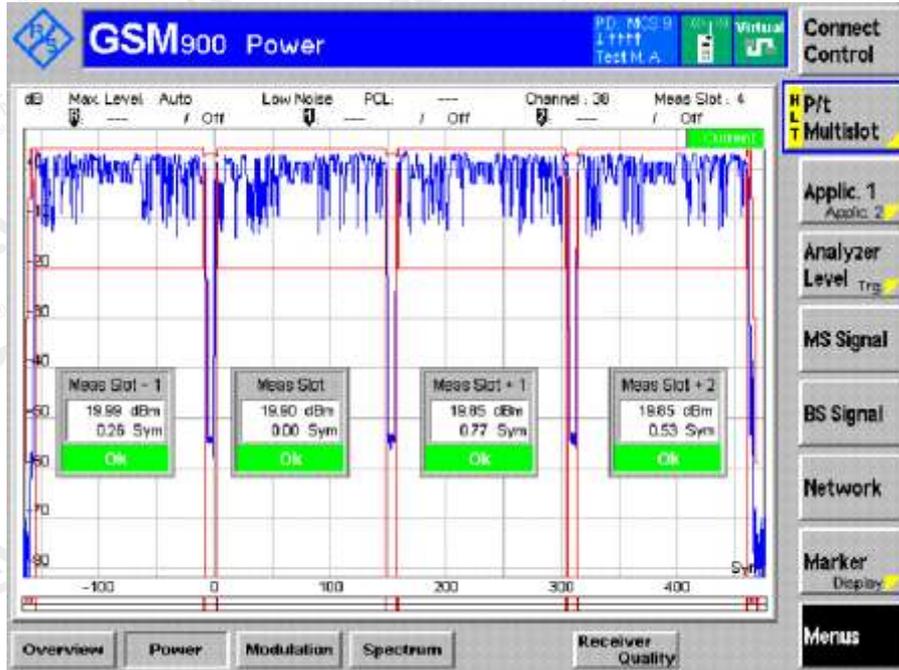


Channel LCH PCL 12

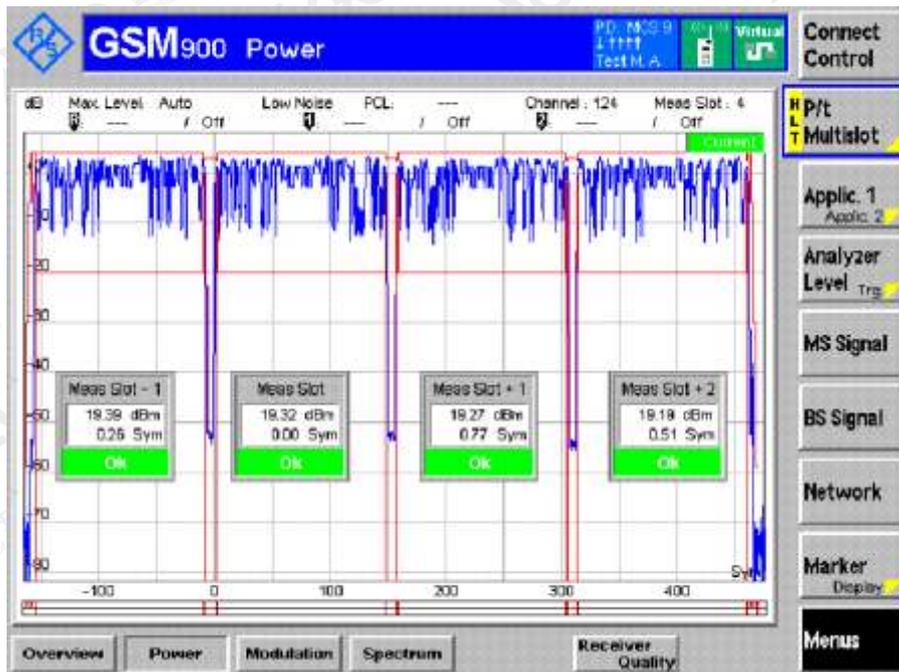


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Channel MCH PCL 12

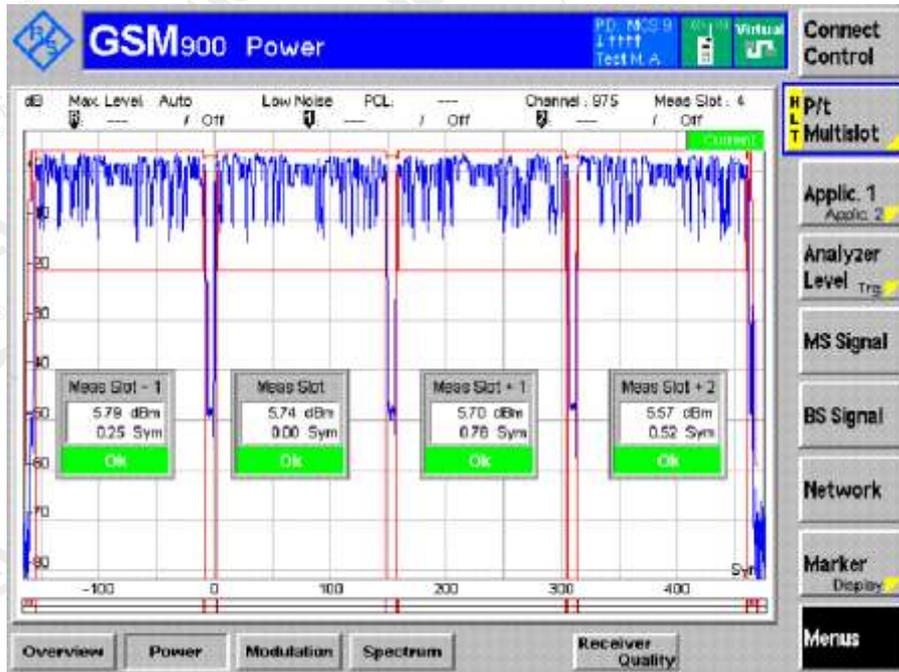


Channel HCH PCL 12

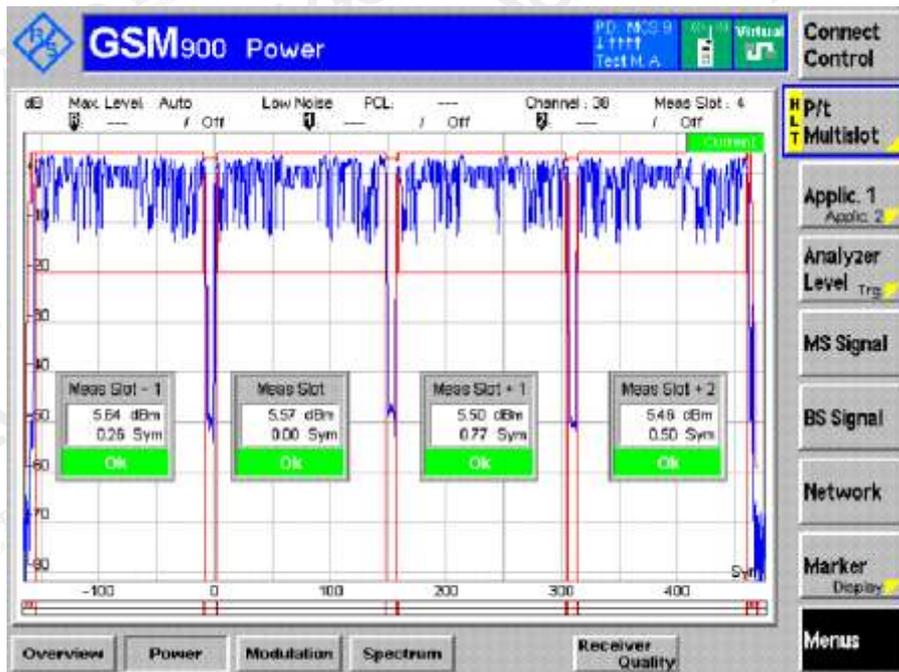


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Channel LCH PCL 19

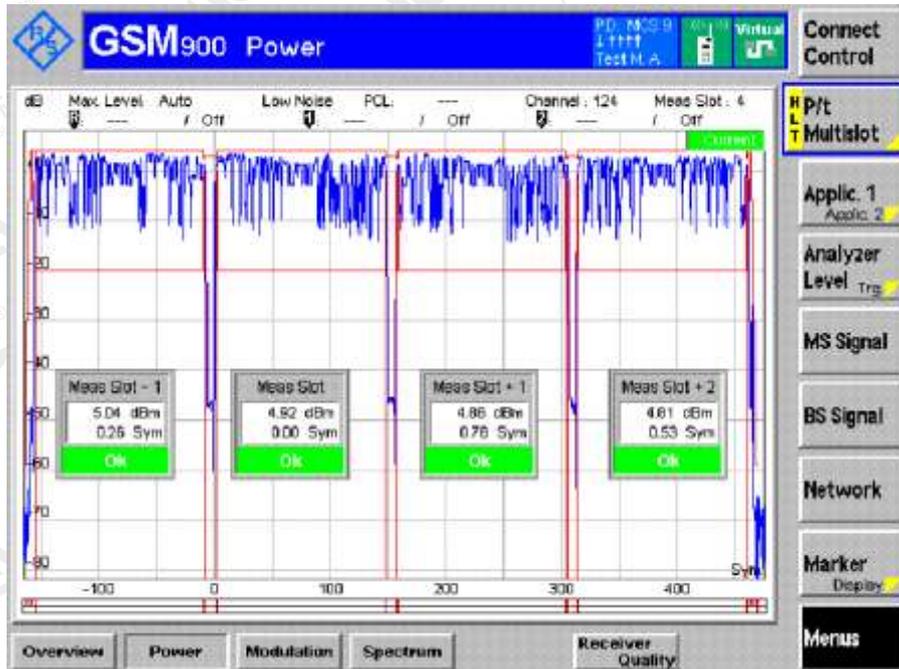


Channel MCH PCL 19



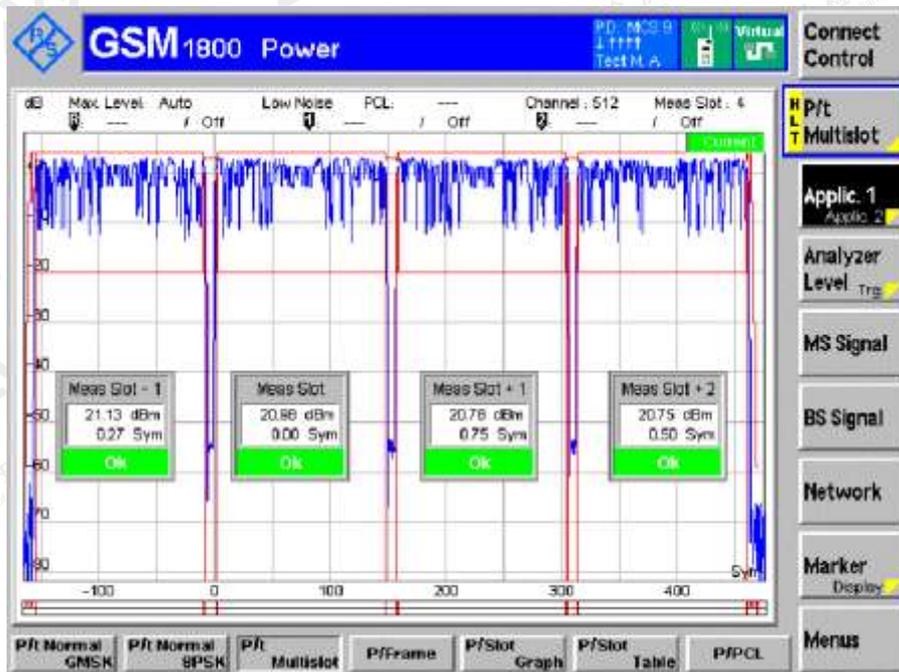
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Channel HCH PCL 19



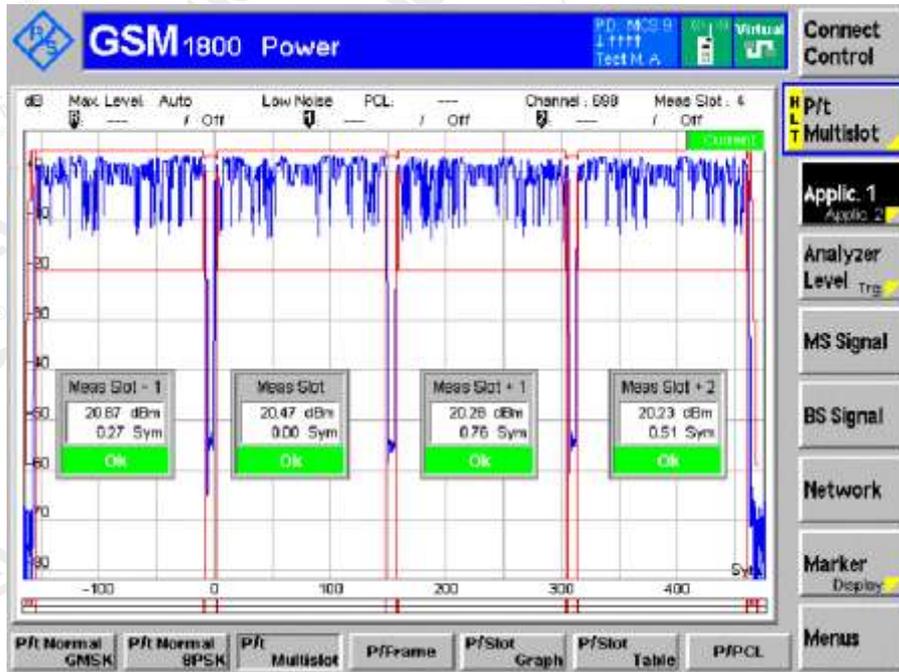
DCS1800 TH,VH

Channel LCH PCL 2

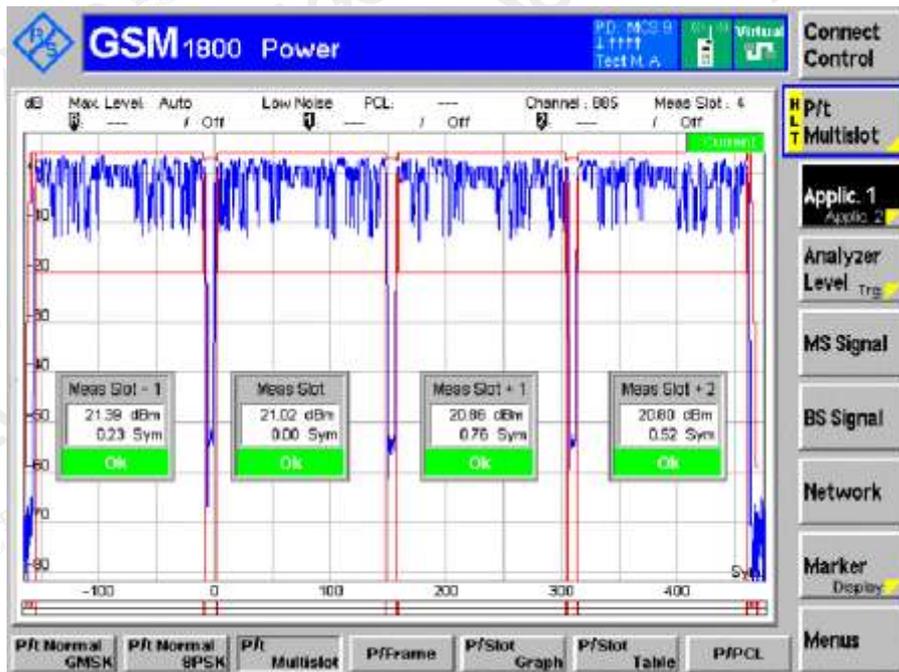


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Channel MCH PCL 2

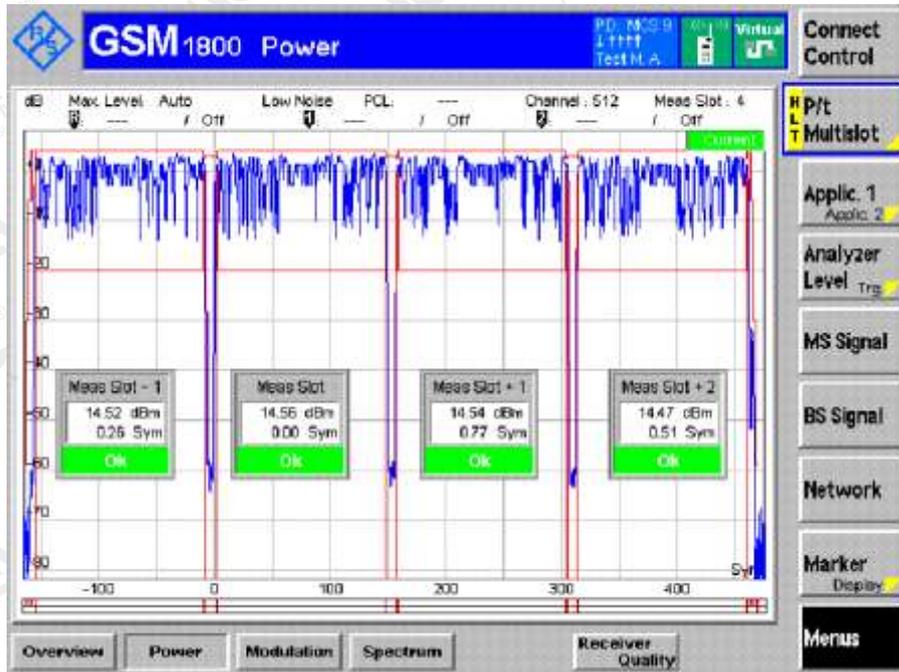


Channel HCH PCL 2

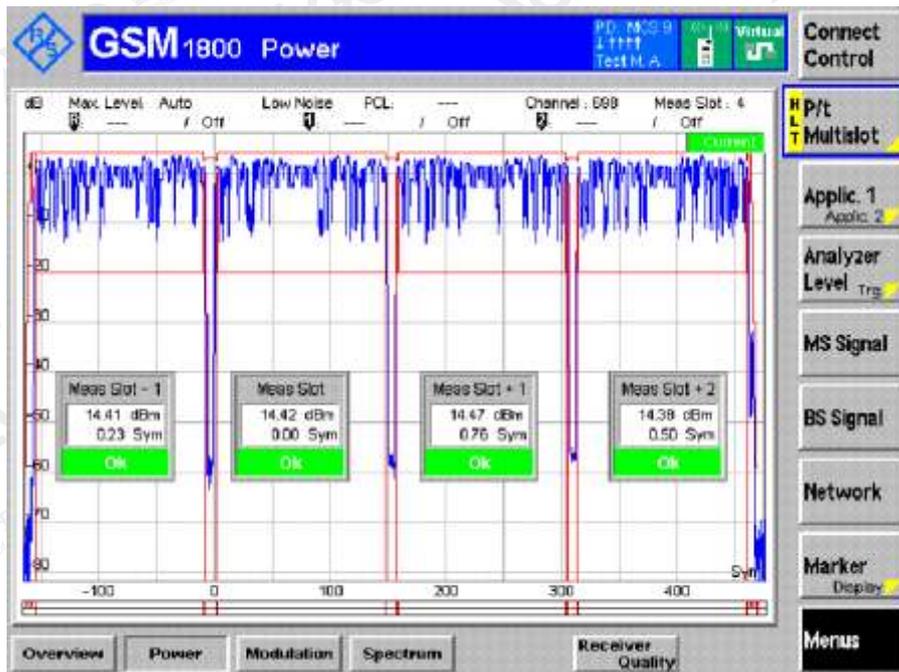


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Channel LCH PCL 8

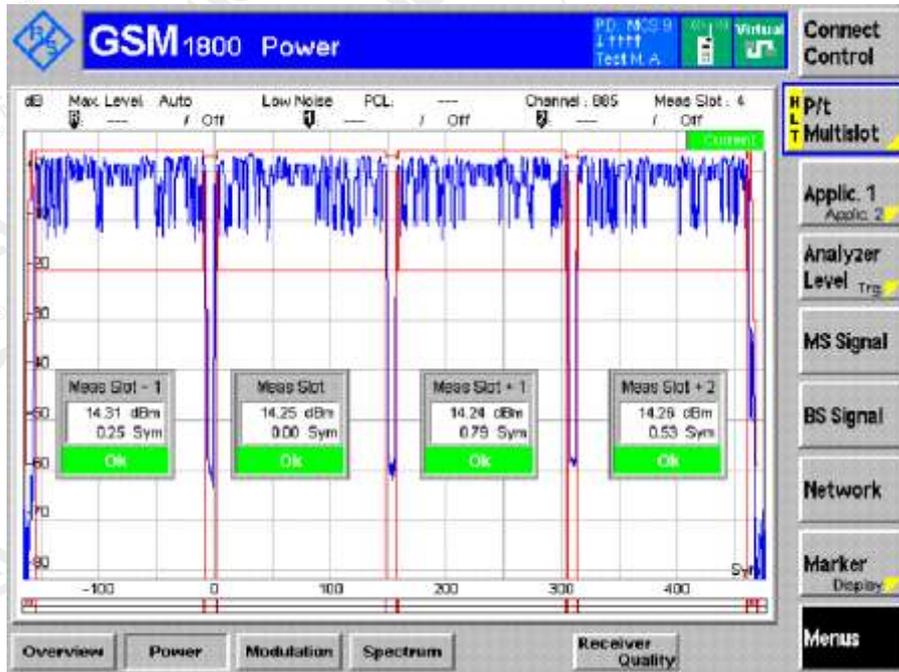


Channel MCH PCL 8

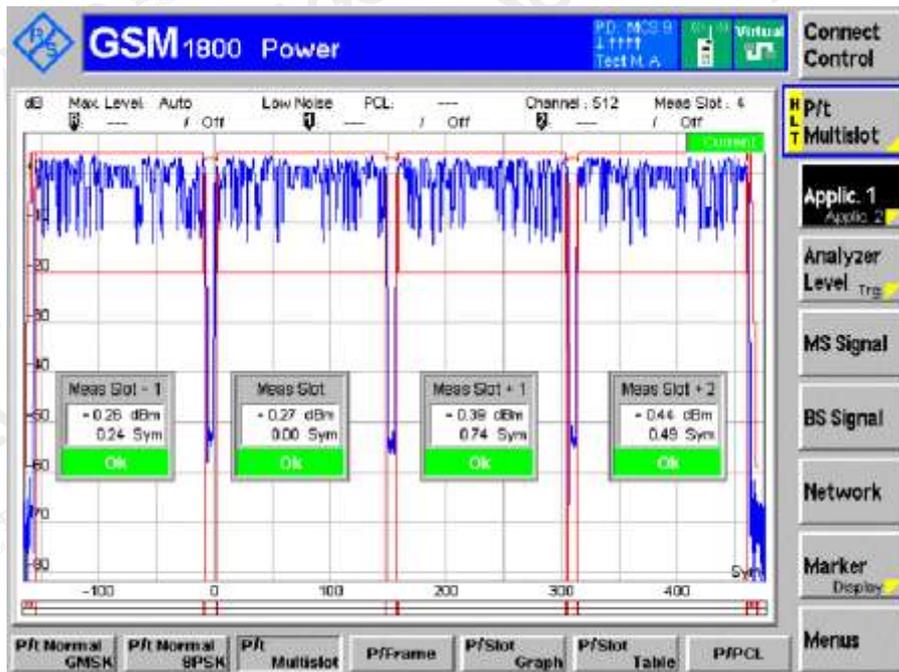


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Channel HCH PCL 8

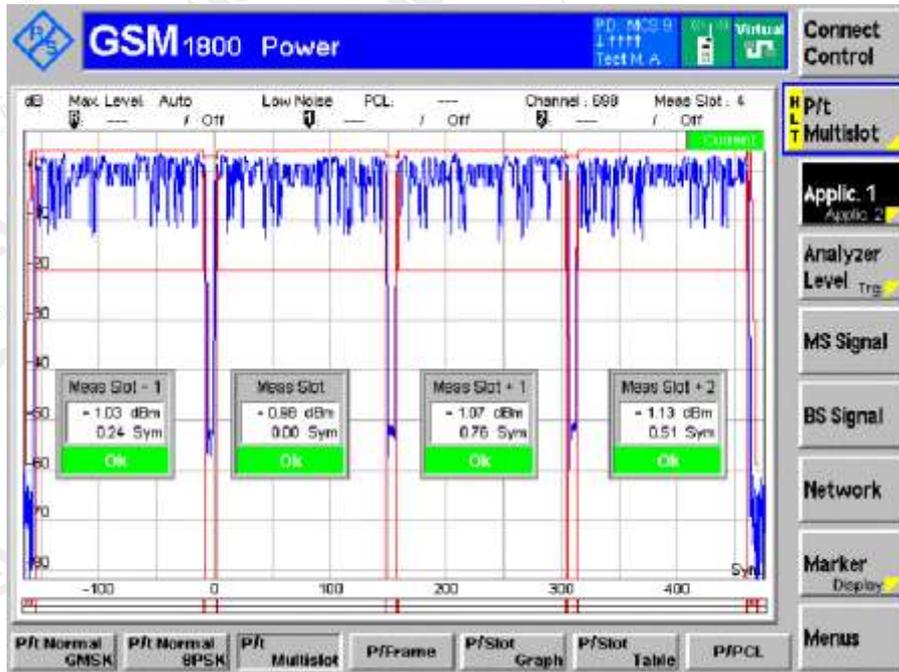


Channel LCH PCL 15

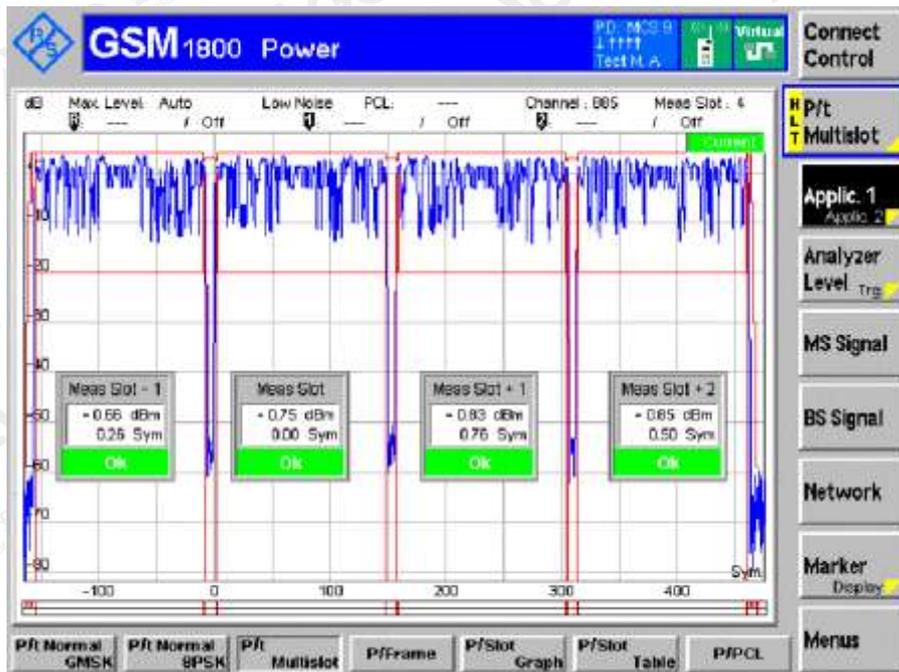


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Channel MCH PCL 15



Channel HCH PCL 15



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Appendix N. Output RF spectrum in EGPRS configuration

Note: All the modes had been tested, but only the worst data recorded in the report.

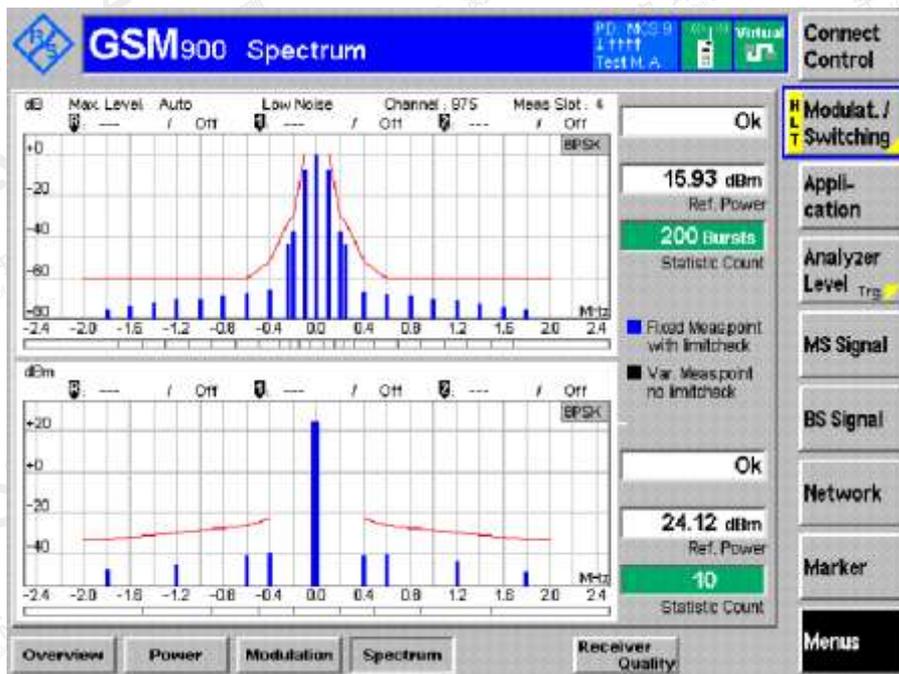
Modulation & switch Spectrum	Power level	Result		
		Traffic Channels		
GSM900		LCH	MCH	HCH
TL,VL	8	PASS	PASS	PASS
	12	PASS	PASS	PASS
	19	PASS	PASS	PASS

Modulation & switch Spectrum	Power level	Result		
		Traffic Channels		
DCS1800		LCH	MCH	HCH
TL,VL	2	PASS	PASS	PASS
	8	PASS	PASS	PASS
	15	PASS	PASS	PASS

Graphs of output RF spectrum in EGPRS multislot configuration

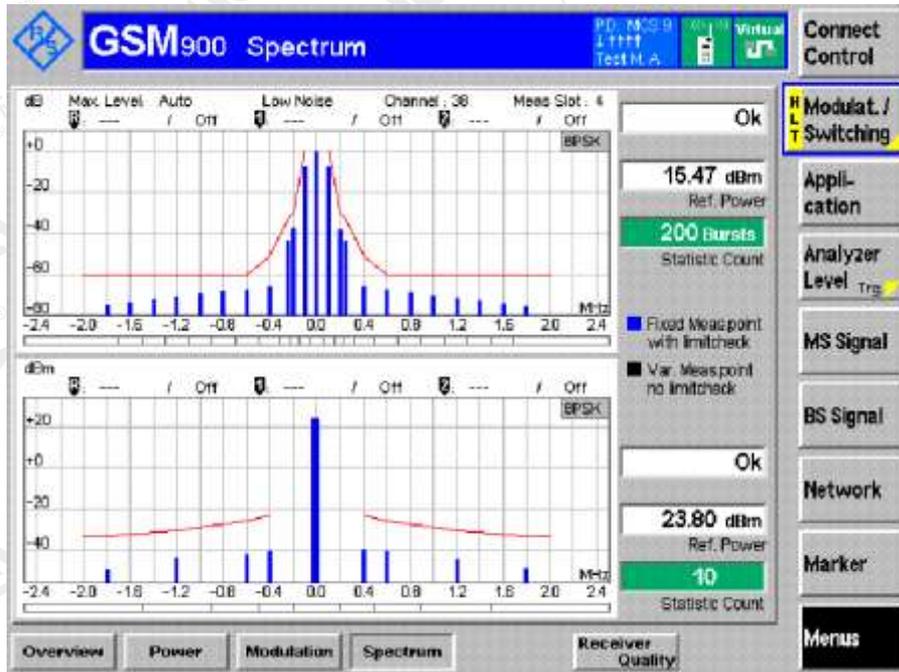
GSM 900 TL,VL

Channel LCH PCL 8

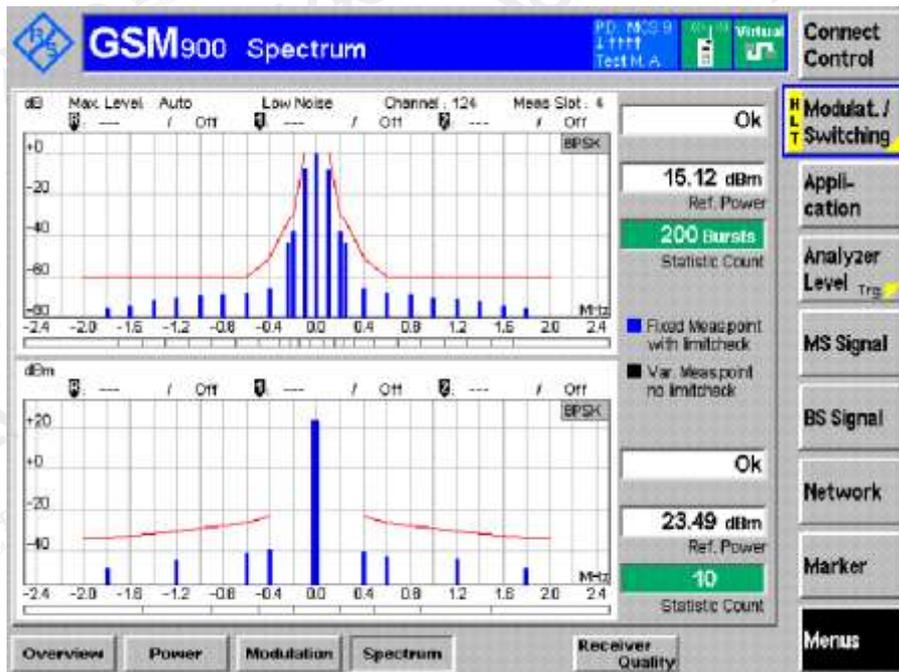


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Channel MCH PCL 8

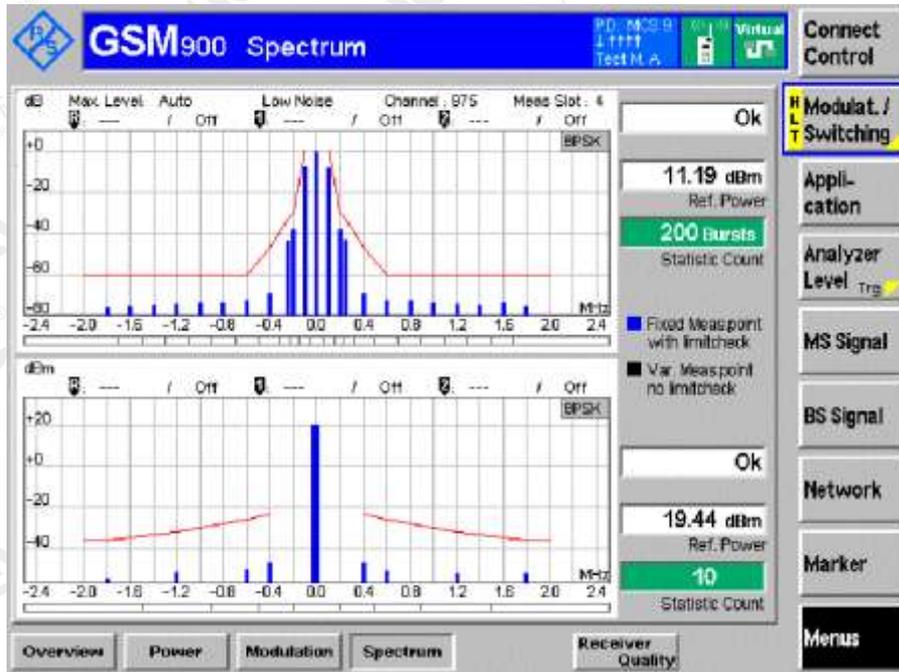


Channel HCH PCL 8

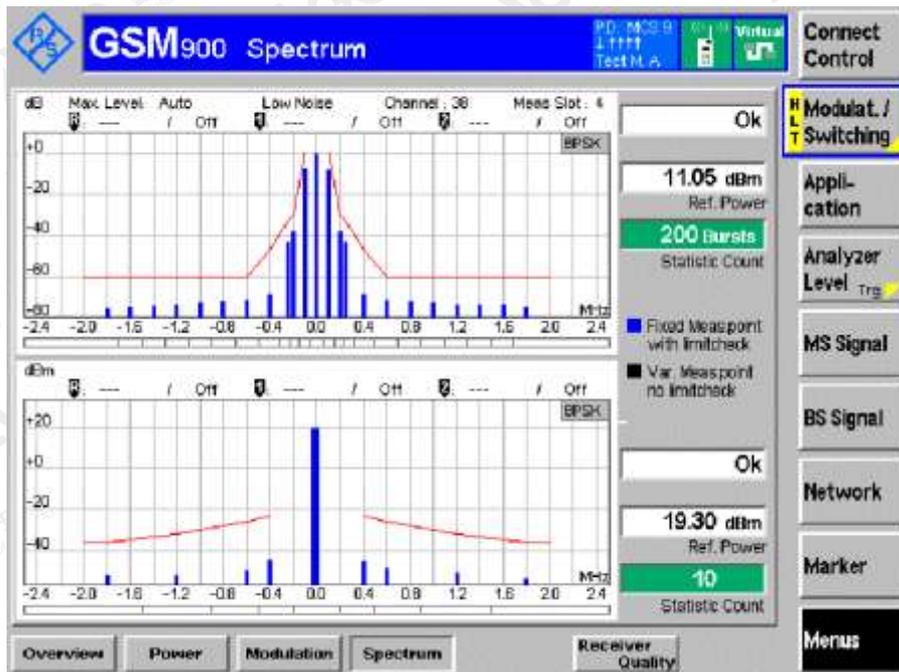


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Channel LCH PCL 12

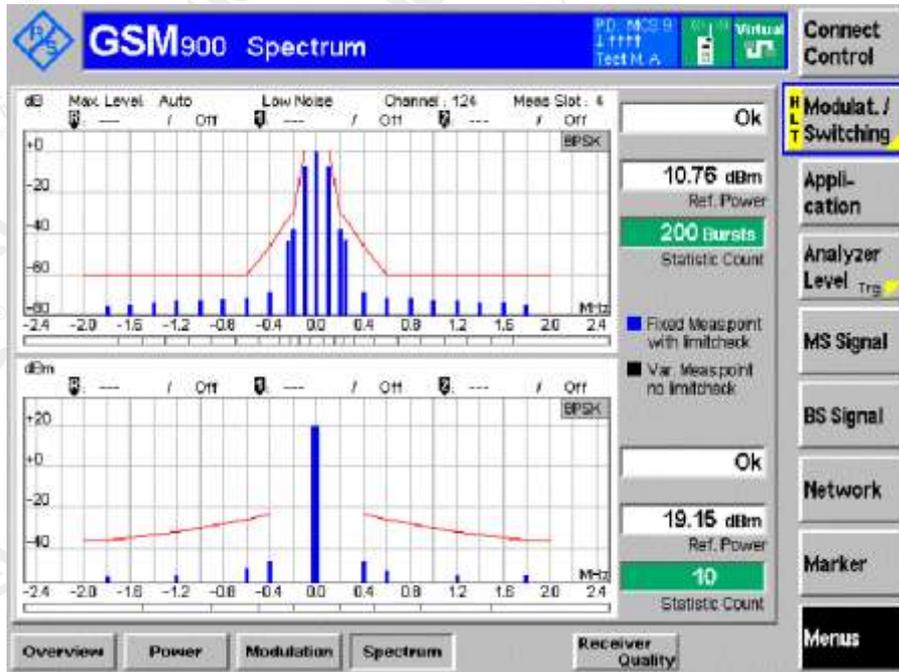


Channel MCH PCL 12

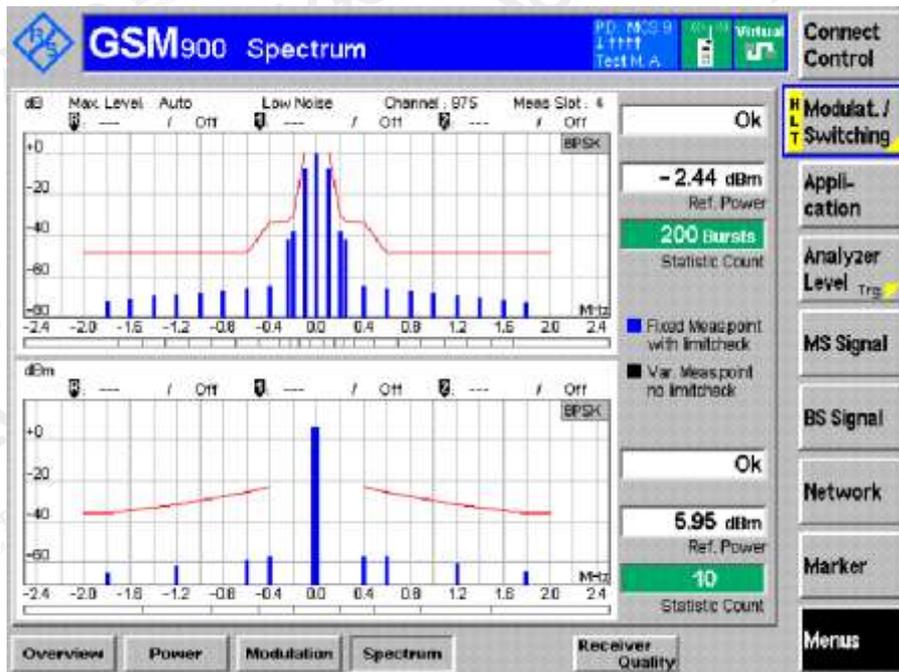


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Channel HCH PCL 12

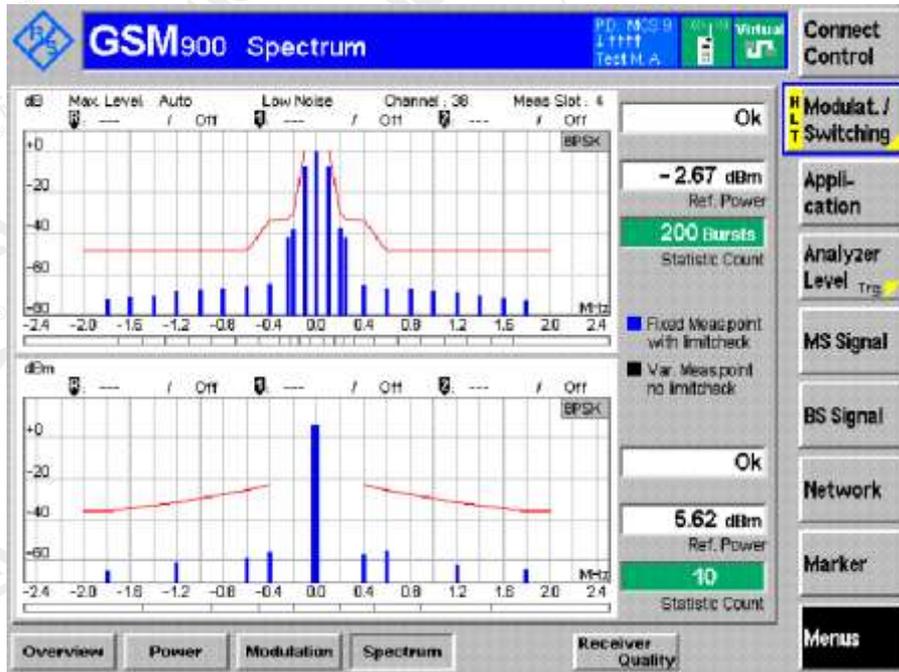


Channel LCH PCL 19

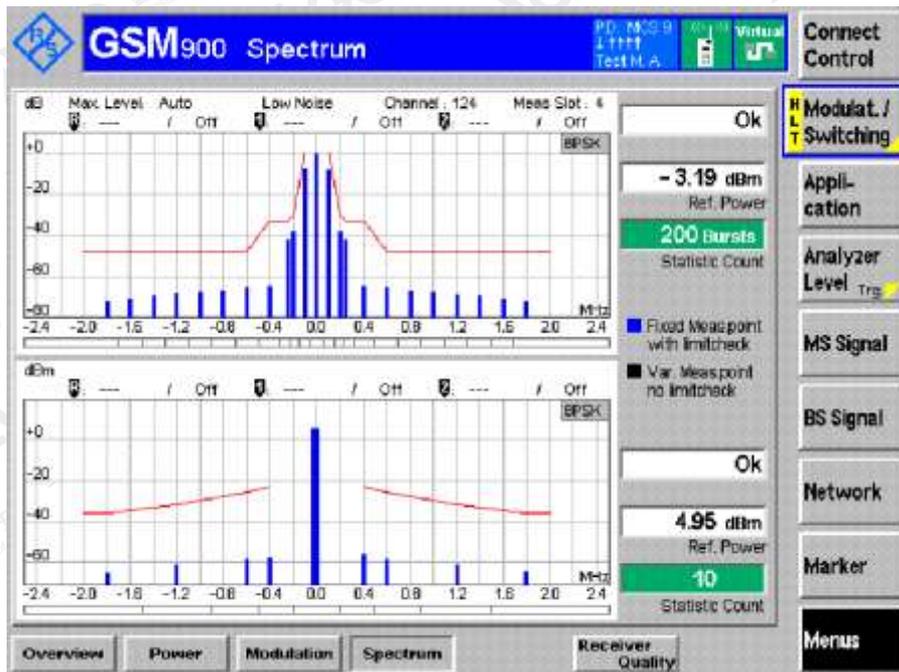


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Channel MCH PCL 19

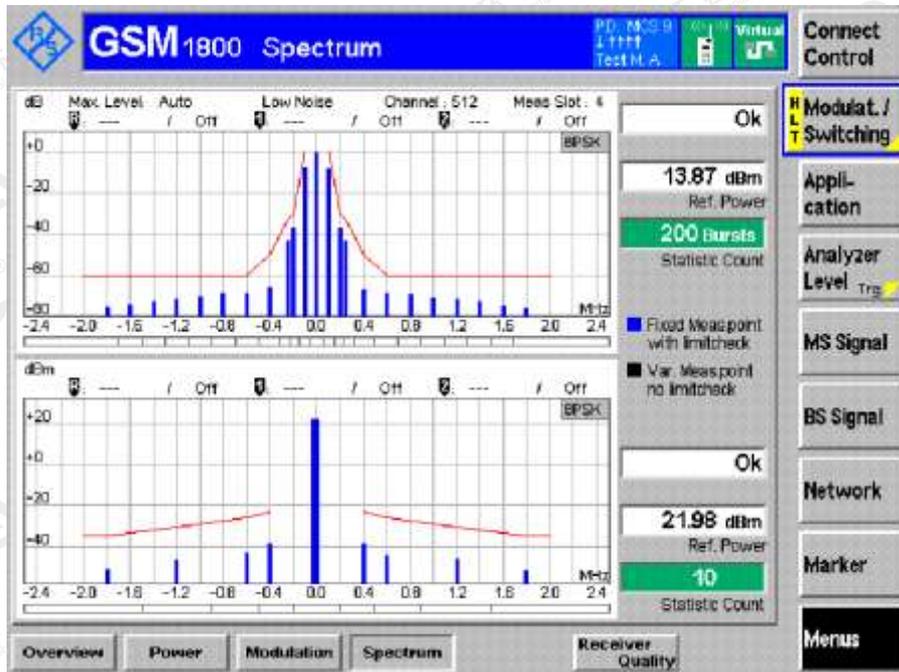


Channel HCH PCL 19

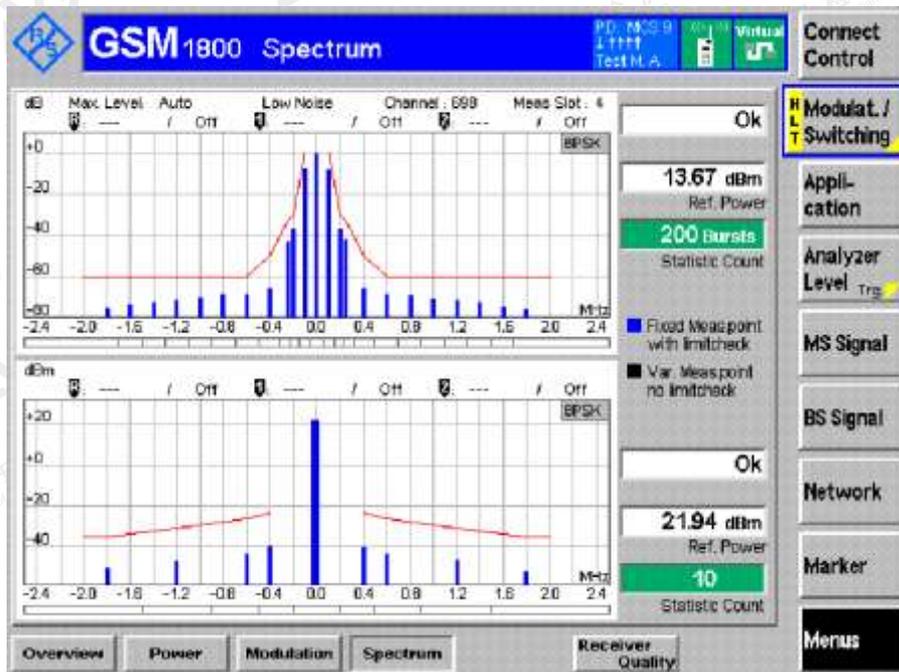


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DCS1800 TL,VL
Channel LCH PCL 2

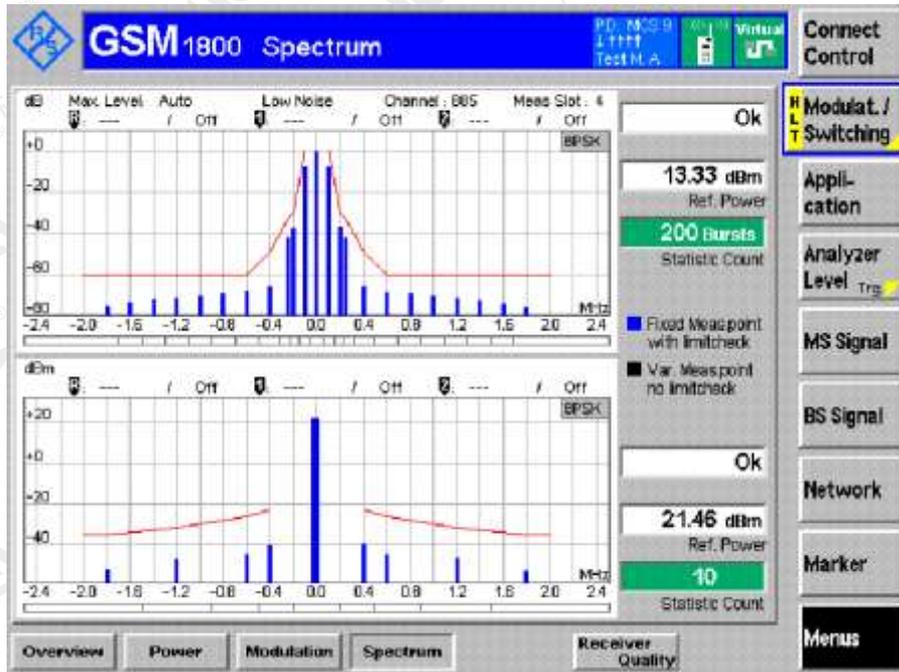


Channel MCH PCL 2

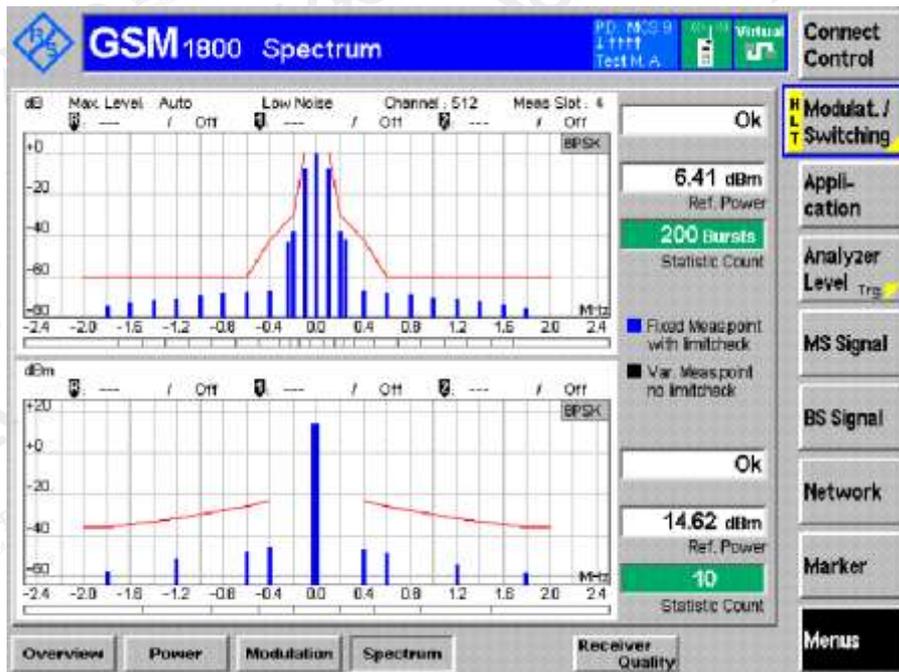


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Channel HCH PCL 2

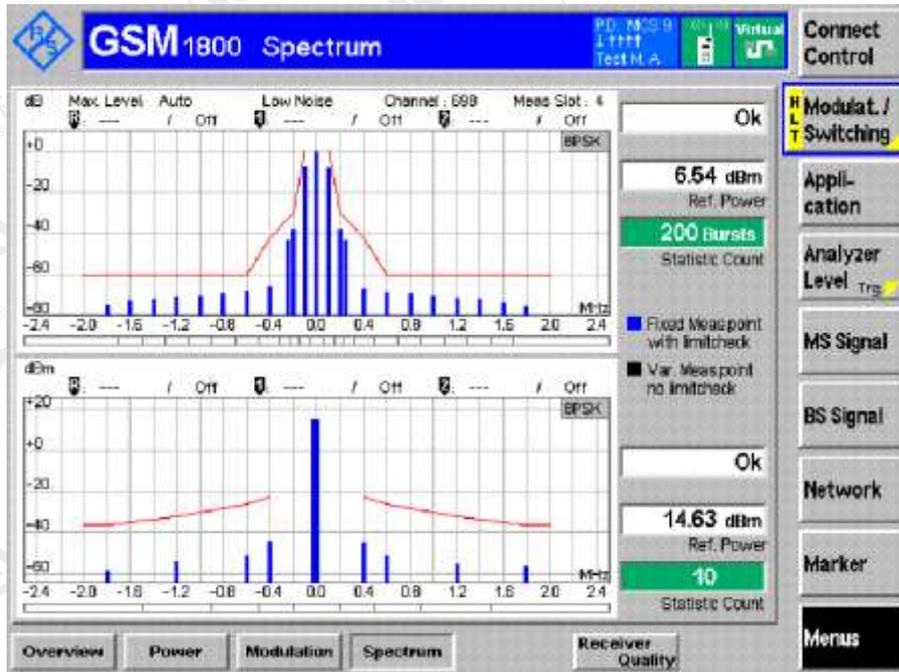


Channel LCH PCL 8

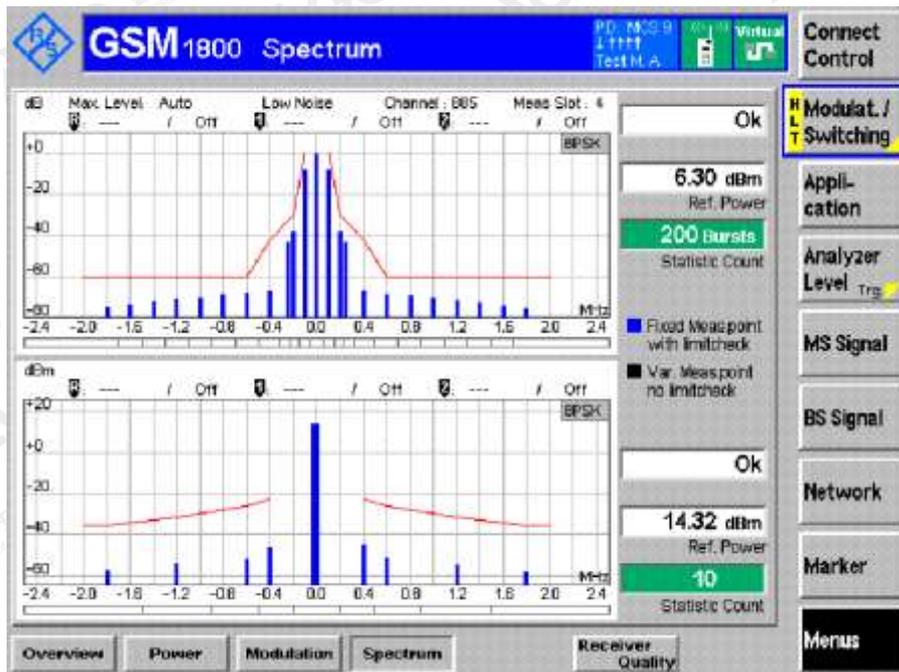


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Channel MCH PCL 8

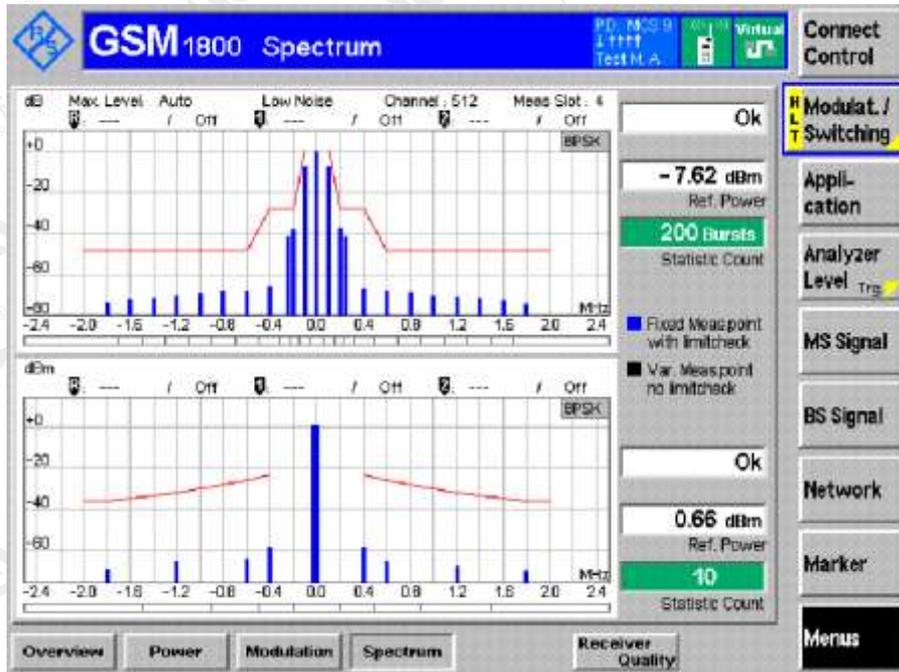


Channel HCH PCL 8

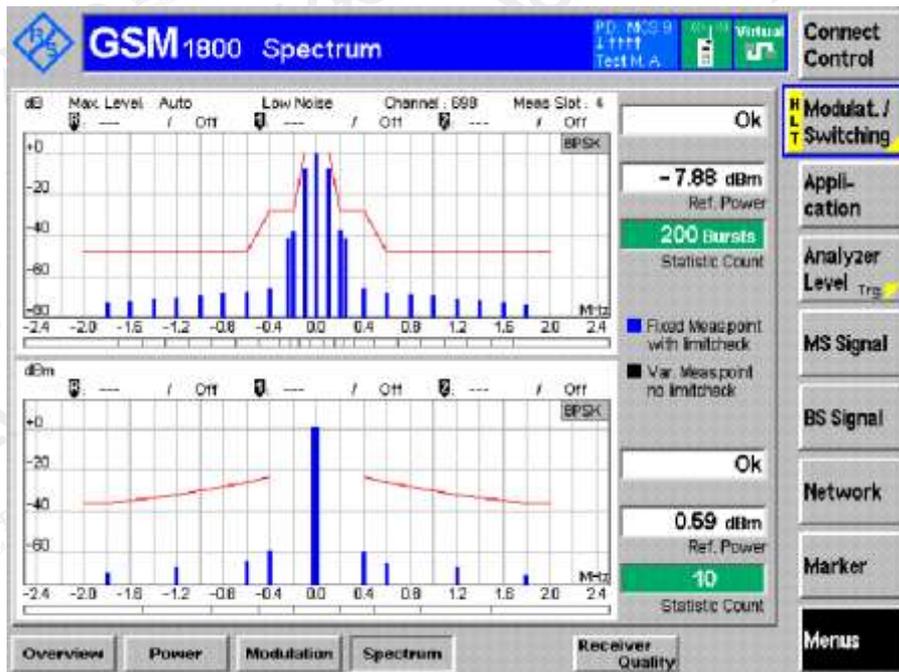


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Channel LCH PCL 15

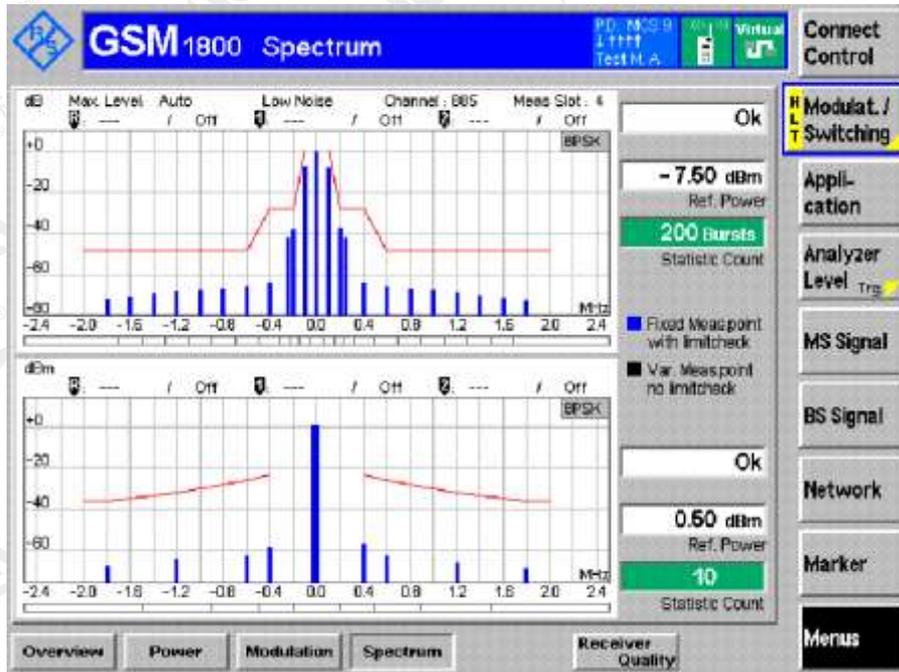


Channel MCH PCL 15



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Channel HCH PCL 15



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Appendix O. Receiver Blocking and spurious response in EGPRS configuration
GSM900

FREQUENCY	Measurement Result	
	GSM900	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1,6 MHz	70	PASS
FR +/- 1,6 MHz to FR +/- 3 MHz	80	PASS
915 MHz to FR - 3 MHz	90	PASS
FR + 3 MHz to 980 MHz	90	PASS
835 MHz to <915 MHz	113	PASS
>980 MHz to 1000 MHz	113	PASS
100 kHz to <835 MHz	113	PASS
>1000 MHz to 12,75 GHz	113	PASS

DCS1800

FREQUENCY	Measurement Result	
	DCS1800	
	Small MS	
	Interference Level in dBμVemf()	Result
FR +/- 600 kHz to FR +/- 800 kHz	70	PASS
FR +/- 800 kHz to FR +/- 1,6 MHz	70	PASS
FR +/- 1,6 MHz to FR +/- 3 MHz	80	PASS
1785 MHz to FR - 3 MHz	87	PASS
FR + 3 MHz to 1920 MHz	87	PASS
100 kHz to 1705 MHz	113	PASS
>1705 MHz to <1785 MHz	101	PASS
>1920 MHz to 1980 MHz	101	PASS
>1980 MHz to 12,75 GHz	113	PASS

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Appendix P .AM suppression - speech channels
GSM900

Channel	Propagation conditions	Type of measurement	Test limit error rate %	Minimum No. of max-samples	Result	
TCH/FS Class II	Static	RBER	2,439	8200	0.632%	Pass

GSM1800

Channel	Propagation conditions	Type of measurement	Test limit error rate %	Minimum No. of max-samples	Result	
TCH/FS Class II	Static	RBER	2,439	8200	0.812%	Pass

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Appendix Q. Intermodulation rejection - EGPRS

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Intermodulation Test Signal Levels	Small MS	Result
TNVN	FIRST INTERFERER dB μ Vemf()	64	Pass
	SECOND INTERFERER dB μ Vemf()	63	Pass

GSM1800

	Intermodulation Test Signal Levels	Small MS	Result
TNVN	FIRST INTERFERER dB μ Vemf()	68	Pass
	SECOND INTERFERER dB μ Vemf()	68	Pass

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Adjacent R. Adjacent channel rejection – EGPRS

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Channel types	Block per s	Channel types	Derived test limit	Target number of samples	Target test time /s	Target test time /hh:mm:ss	Result
TNVN	USF/MCS-1 to 9	50	0,01	0,01234	27958	559	00:09:19	Pass

GSM1800

	Channel types	Block per s	Channel types	Derived test limit	Target number of samples	Target test time /s	Target test time /hh:mm:ss	Result
TNVN	USF/MCS-1 to 9	50	0,01	0,01234	27958	559	00:09:19	Pass

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Appendix S .Adjacent channel rejection - speech channels (TCH/FS)

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Channel	Interference at	Type of Measurement	Test limit error rate %	Minimum No. of samples	Result
TNVN	TCH/FS class Ib class II	200 kHz	FER RBER RBER	6,742* α 0,420/ α 8,333	8 900 1 000 000 600 000	Pass
	TCH/FS class Ib class II	400 kHz	FER RBER RBER	11,461* α 0,756/ α 9,167	8 900 1 000 000 600 000	Pass

GSM1800

	Channel	Interference at	Type of Measurement	Test limit error rate %	Minimum No. of samples	Result
TNVN	TCH/FS class Ib class II	200 kHz	FER RBER RBER	3,371* α 0,270/ α 8,333	17 800 2 000 000 1 200 000	Pass
	TCH/FS class Ib class II	400 kHz	FER RBER RBER	5,714* α 0,483/ α 9,167	10 500 1 200 000 720 000	Pass

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Appendix T. Reference sensitivity - TCH/FS

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Channels	Propagation conditions TUhigh		Propagation conditions RA		Propagation conditions HT		Static conditions		Result
		Test limit Error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	
TNVN	TCH/FS	1	8 900					1	164 000	Pass
	FER class Ib(RBER)	0,06	1 000000	6,55	24 000	5,49	60 000	0,07	20000000	
	class II(RBER)	4,1	120 000					6,58	8 200	

GSM1800

	Channels	Propagation conditions TUhigh		Propagation conditions RA		Propagation conditions HT		Static conditions		Result
		Test limit Error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	Test limit error rate %	Minimum No. of samples	
TNVN	TCH/FS	1	13 400					1	164 000	Pass
	FER class Ib(RBER)	0,06	1500000	5,75	24 000	5,64	30 000	0,07	20000000	
	class II(RBER)	5,44	60 000					6,58	8 200	

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Appendix U. Reference sensitivity - FACCH/F
GSM900

Channel	Propagation	Type of Measurement	Test limit error rate %	Result	
FACCH/F	TUhigh	FER	7.728	3.246%	Pass

GSM1800

Channel	Propagation	Type of Measurement	Test limit error rate %	Result	
FACCH/F	TUhigh	FER	8.064	3.128%	Pass

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Appendix V. Minimum Input level for Reference Performance – GPRS

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Type of channel	Propagation conditions						Result	
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	BLER		
GSM 900									
TNVH	PDTCH/CS-1 dBm	-104	-104	-104	-104	-103	10 %	0.1 %	PASS
	PDTCH/CS-2 dBm	-104	-100	-101	-101	-99	10 %	0.1 %	PASS
	PDTCH/CS-3 dBm	-104	-98	-99	-98	-96	10 %	0.1 %	PASS
	PDTCH/CS-4 dBm	-101	-90	-90	--		10 %	0.1 %	PASS
	USF/CS-1 dBm	< -104	<-101	<-103	<-103	<-101	1 %	0.1 %	PASS
	USF/CS-2to 4 dBm	< -104	<-103	<-104	<-104	<-104	1 %	0.1 %	PASS

GSM1800

	Type of channel	Propagation conditions						Result	
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	BLER		
GSM 1800									
TNVL	PDTCH/CS-1 dBm	-104	-104	-104	-104	-109	10 %	0.1 %	PASS
	PDTCH/CS-2 dBm	-104	-100	-100	-101	-99	10 %	0.1 %	PASS
	PDTCH/CS-3 dBm	-104	-98	-98	-98	-94	10 %	0.1 %	PASS
	PDTCH/CS-4 dBm	-101	-88	-88	--		10 %	0.1 %	PASS
	USF/CS-1 dBm	< -104	<-103	<-103	<-103	<-101	1 %	0.1 %	PASS
	USF/CS-2to 4 dBm	< -104	<-104	<-104	<-104	<-103	1 %	0.1 %	PASS

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Appendix W. Minimum Input level for Reference Performance – EGPRS

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

	Type of Channel	Propagation conditions					Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	
TNVN	USF/MCS-5 to 9 dBm	-102	-97,5	-99	-100	-99	Pass

GSM1800

	Type of Channel	Propagation conditions					Result
		static	TUhigh (no FH)	TUhigh (ideal FH)	RA (no FH)	HT (no FH)	
TNVN	USF/MCS-5 to 9 dBm	-102	-97,5	-99	-100	-99	Pass

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Appendix X. Radiated spurious emissions - MS in idle mode

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

Radiated spurious emissions	GSM900 VH			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
30MHz~880MHz	10k	-57	-66.35	PASS
880MHz~915MHz	10k	-59	-74.36	PASS
915MHz~1000MHz	100k	-57	-66.89	PASS
1GHz~1710MHz	100k	-47	-67.56	PASS
1710MHz~1785MHz	100k	-53	-65.78	PASS
1785MHz~4GHz	100k	-47	-59.44	PASS

GSM1800

Radiated spurious emissions	GSM1800 VH			
Frequency range	RBW(Hz)	Max.Limit(dBm)	MCH(dBm)	Result
30MHz~880MHz	10k	-57	-65.81	PASS
880MHz~915MHz	10k	-59	-73.56	PASS
915MHz~1000MHz	100k	-57	-63.43	PASS
1GHz~1710MHz	100k	-47	-62.64	PASS
1710MHz~1785MHz	100k	-53	-61.78	PASS
1785MHz~4GHz	100k	-47	-59.89	PASS

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Appendix Y Intermodulation rejection - speech channels

Note: All the modes had been tested, but only the worst data recorded in the report.

GSM900

TNVH	Wanted Signal dBuVemf()	15	Pass
	First Interferer dBuVemf()	64	Pass
	Second Interferer dBuVemf()	63	Pass

GSM1800

Intermodulation Test Signal Levels		Result
TNVH	Wanted Signal dBuVemf()	15 Pass
	First Interferer dBuVemf()	68 Pass
	Second Interferer dBuVemf()	68 Pass

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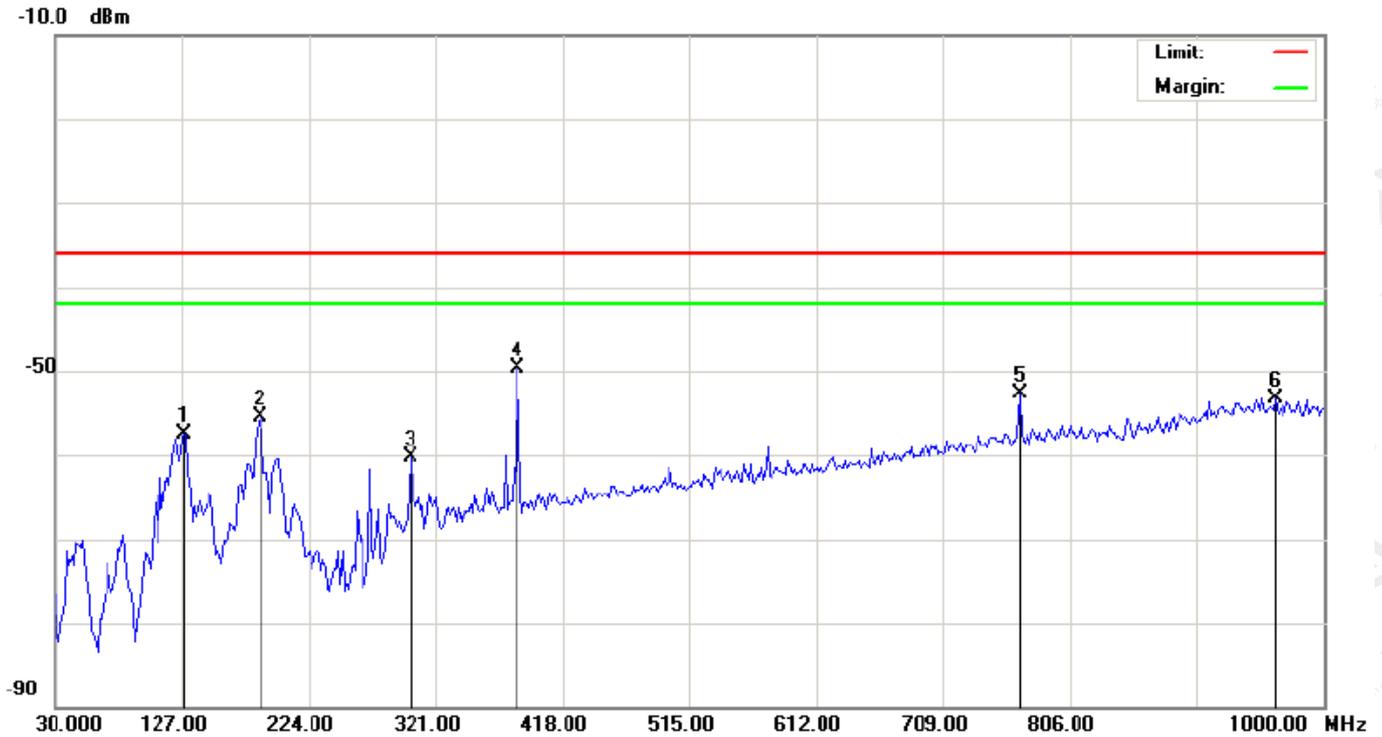
APPENDIX Z. RADIATED SPURIOUS EMISSIONS TEST RESULT

All test modes were carried out for all operation modes

The (middle channel) was showed as the follow:

Note: The filter has been used in this test.

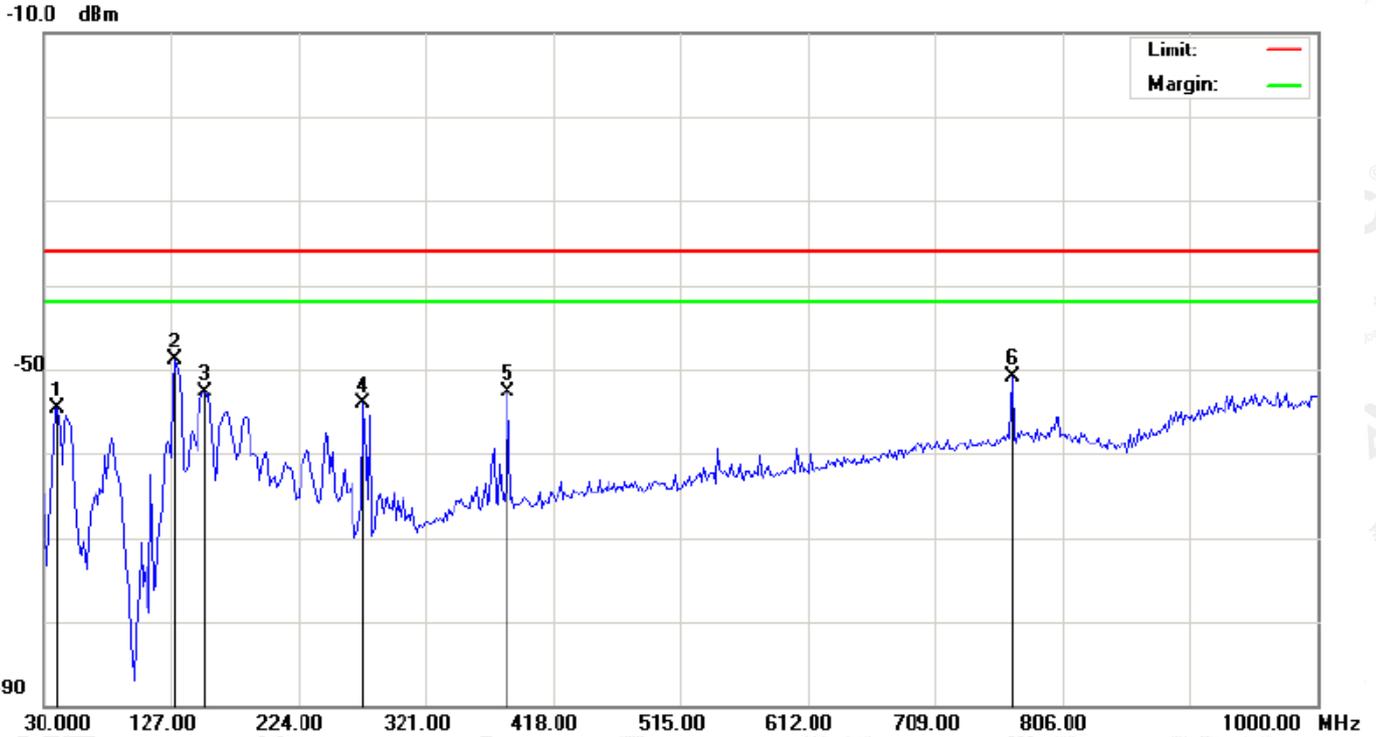
RADIATED SPURIOUS EMISSIONS GSM 900 BELOW 1GHZ- HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		128.6167	-95.11	37.60	-57.51	-36.00	-21.51	peak			
2		186.8167	-89.46	34.05	-55.41	-36.00	-19.41	peak			
3		301.6000	-97.73	37.51	-60.22	-36.00	-24.22	peak			
4	*	384.0500	-90.62	40.87	-49.75	-36.00	-13.75	peak			
5		767.2000	-101.42	48.64	-52.78	-36.00	-16.78	peak			
6		962.8167	-105.13	51.88	-53.25	-36.00	-17.25	peak			

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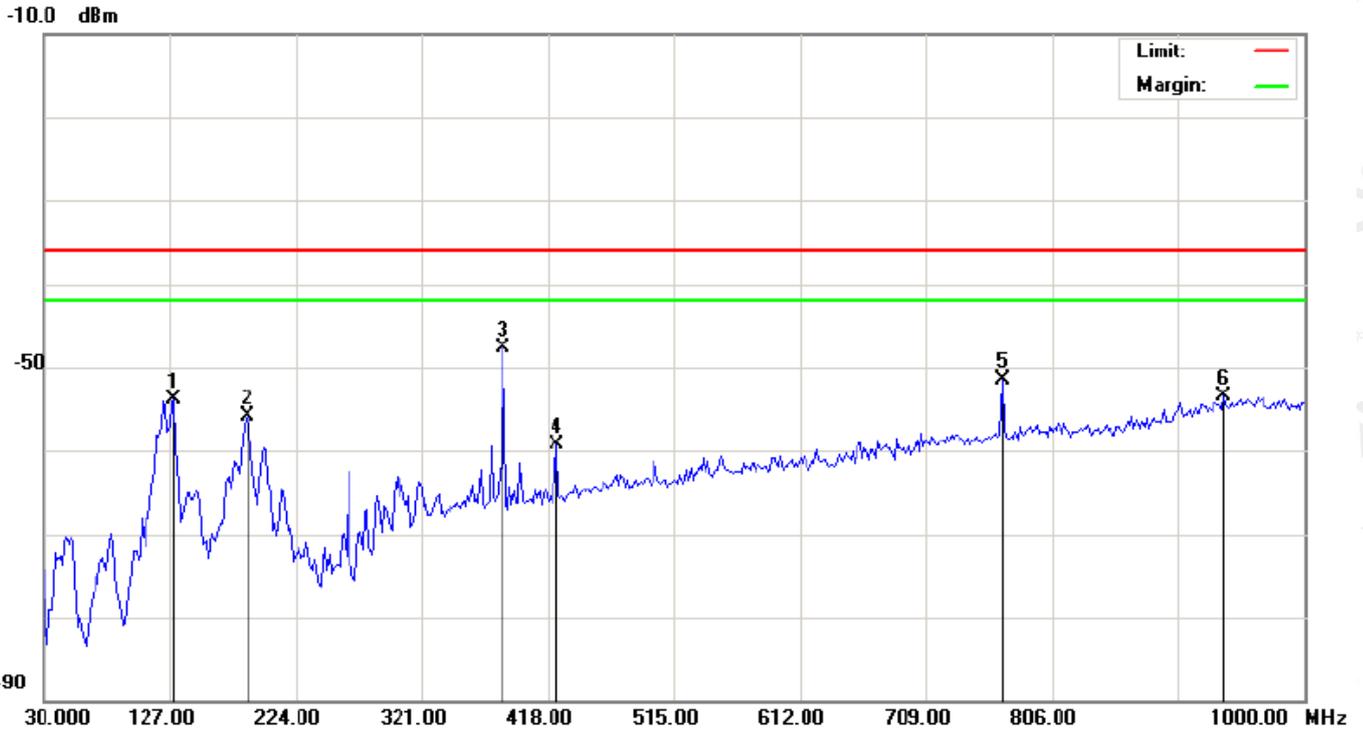
RADIATED SPURIOUS EMISSIONS GSM 900 BELOW 1GHZ- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-85.25	30.63	-54.62	-36.00	-18.62	peak			
2	*	130.2332	-81.95	33.13	-48.82	-36.00	-12.82	peak			
3		152.8667	-89.93	37.22	-52.71	-36.00	-16.71	peak			
4		274.1167	-90.81	36.63	-54.18	-36.00	-18.18	peak			
5		384.0500	-93.79	41.16	-52.63	-36.00	-16.63	peak			
6		767.2000	-99.46	48.55	-50.91	-36.00	-14.91	peak			

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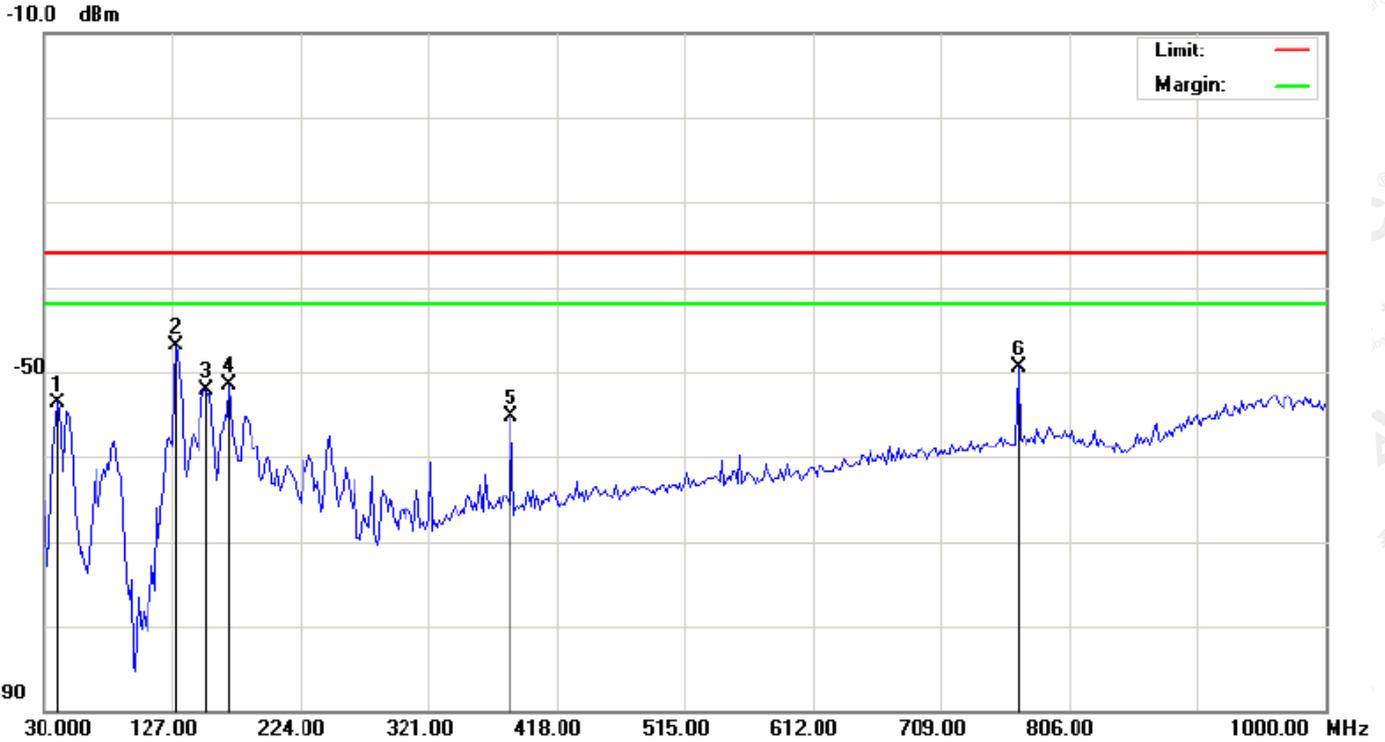
RADIATED SPURIOUS EMISSIONS GSM 1800 BELOW 1GHZ- HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		130.2332	-91.49	37.59	-53.90	-36.00	-17.90	peak			
2		186.8167	-89.93	34.05	-55.88	-36.00	-19.88	peak			
3	*	384.0500	-88.66	40.87	-47.79	-36.00	-11.79	peak			
4		424.4667	-100.98	41.65	-59.33	-36.00	-23.33	peak			
5		767.2000	-100.14	48.64	-51.50	-36.00	-15.50	peak			
6		938.5667	-105.21	51.68	-53.53	-36.00	-17.53	peak			

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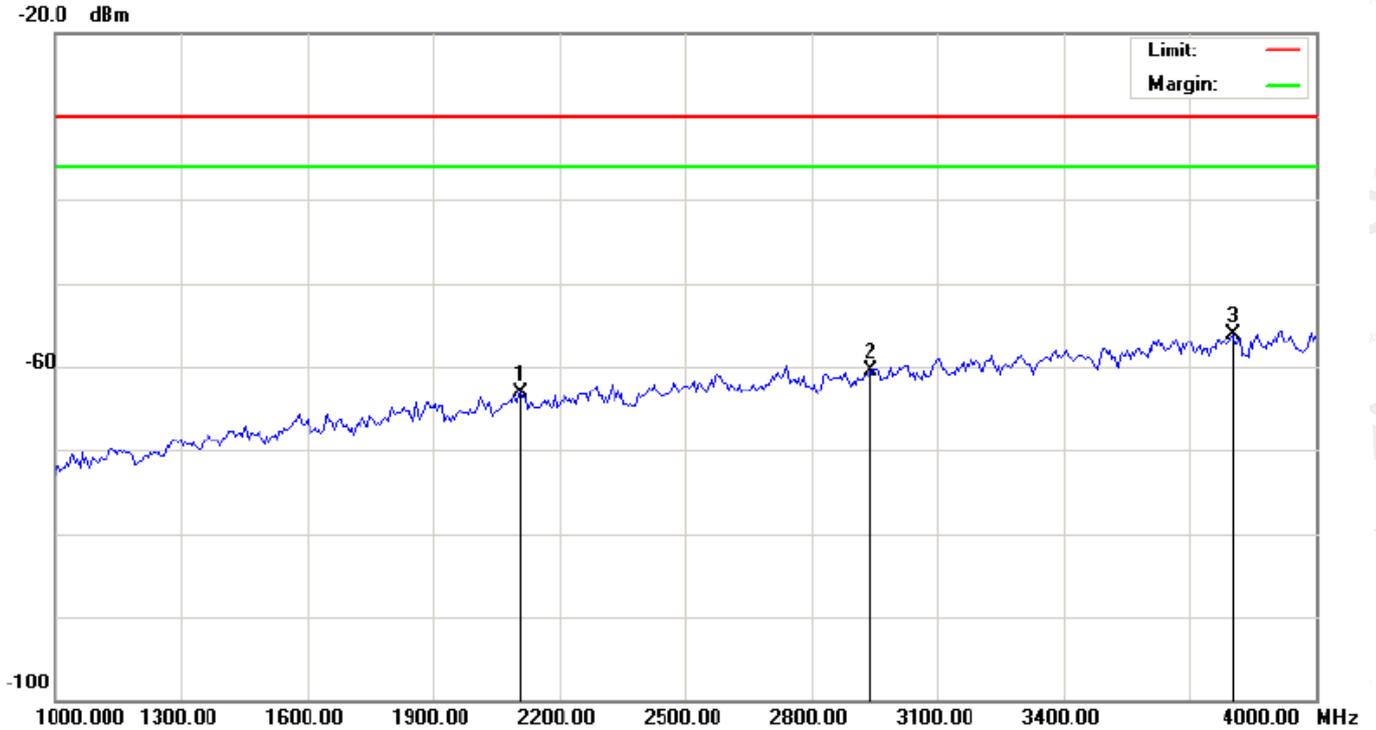
RADIATED SPURIOUS EMISSIONS GSM 1800 BELOW 1GHZ- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-84.23	30.63	-53.60	-36.00	-17.60	peak			
2	*	130.2332	-80.09	33.13	-46.96	-36.00	-10.96	peak			
3		152.8667	-89.24	37.22	-52.02	-36.00	-16.02	peak			
4		170.6500	-88.20	36.61	-51.59	-36.00	-15.59	peak			
5		384.0500	-96.41	41.16	-55.25	-36.00	-19.25	peak			
6		767.2000	-98.02	48.55	-49.47	-36.00	-13.47	peak			

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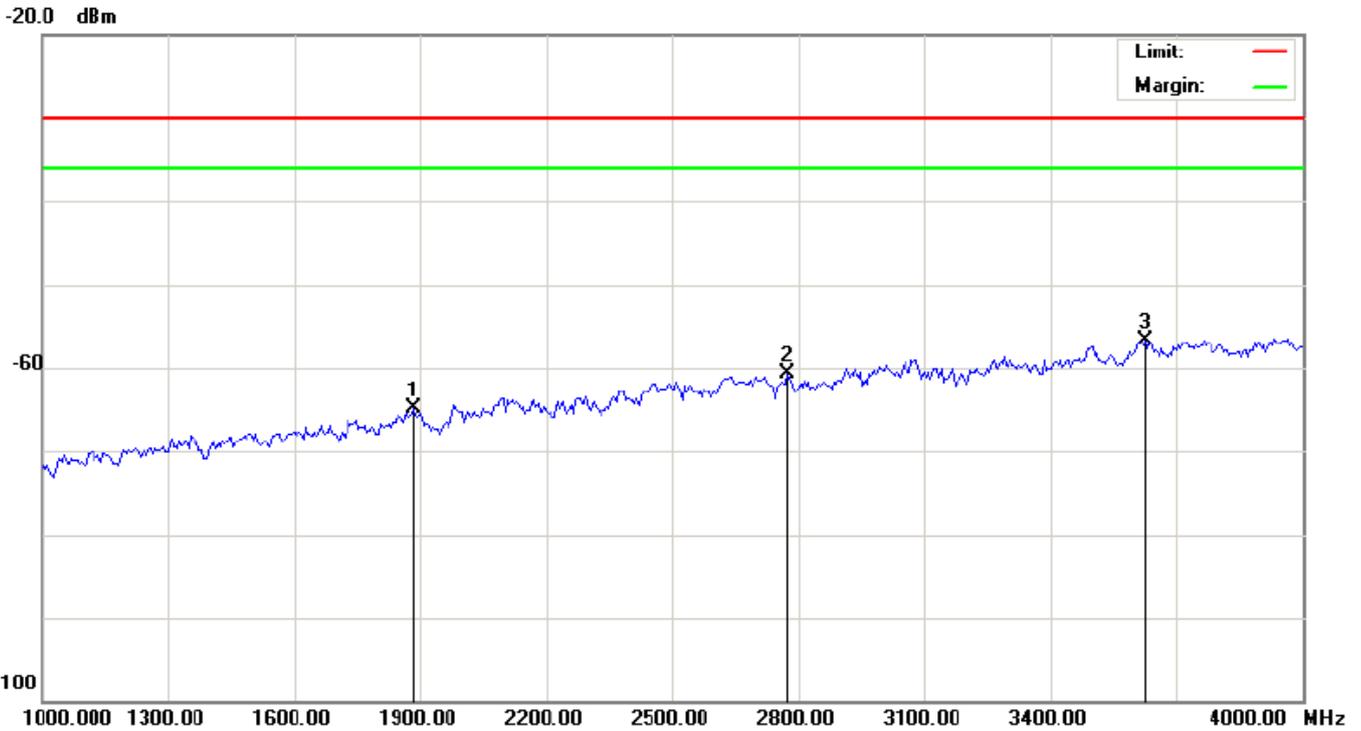
RADIATED SPURIOUS EMISSIONS GSM 900 ABOVE 1GHZ- HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBm	dB	dBm	dBm	dB		Height	Degree	
									cm	degree	
1		2110.000	-78.75	15.60	-63.15	-30.00	-33.15	peak			
2		2940.000	-76.67	16.21	-60.46	-30.00	-30.46	peak			
3	*	3805.000	-73.01	16.84	-56.17	-30.00	-26.17	peak			

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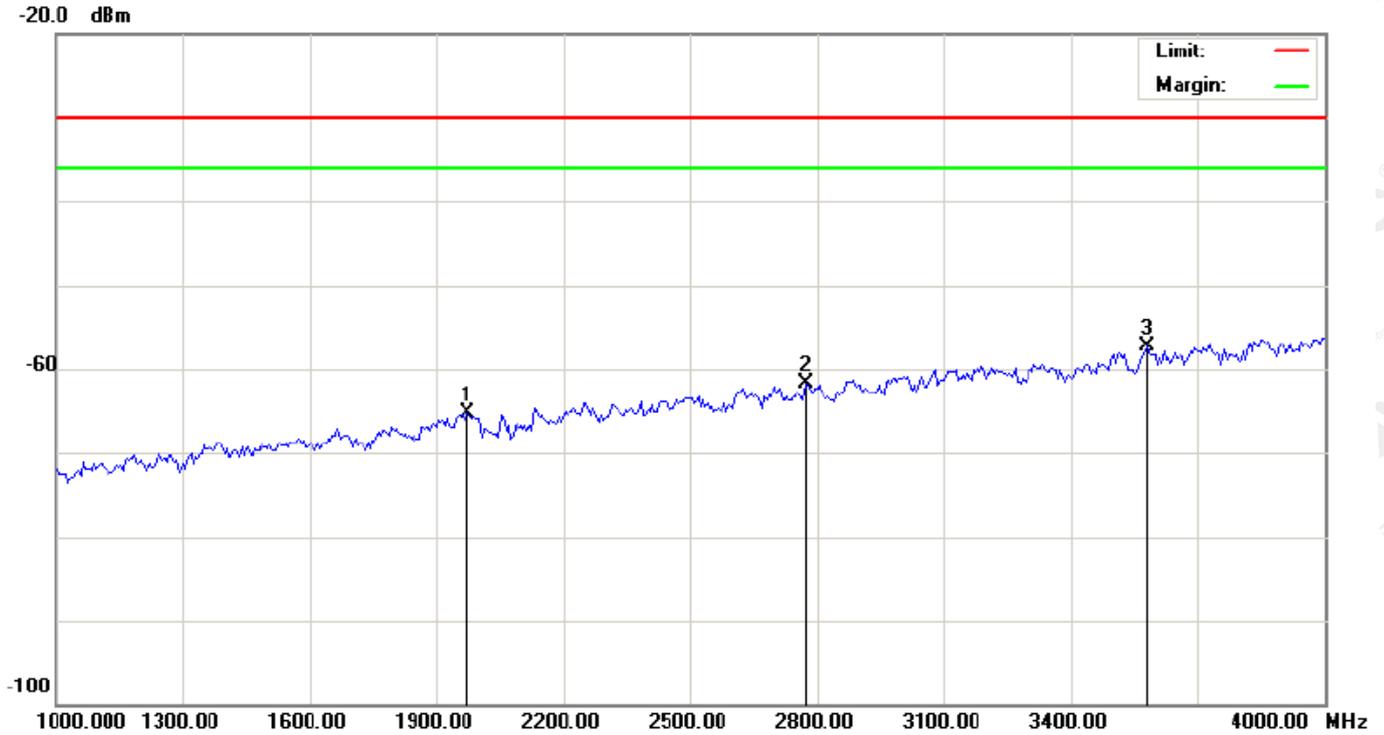
RADIATED SPURIOUS EMISSIONS GSM 900 ABOVE 1GHZ- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		1885.000	-80.47	15.53	-64.94	-30.00	-34.94	peak			
2		2775.000	-76.75	16.01	-60.74	-30.00	-30.74	peak			
3	*	3625.000	-73.21	16.49	-56.72	-30.00	-26.72	peak			

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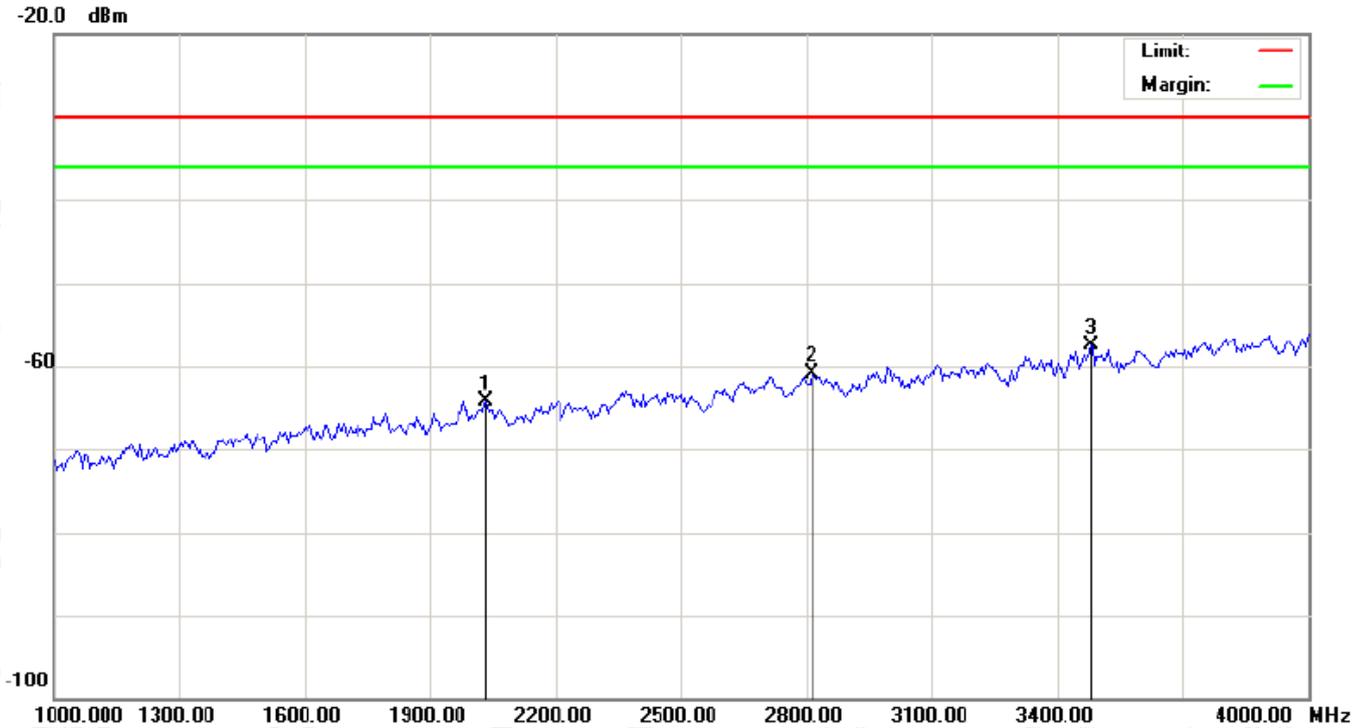
RADIATED SPURIOUS EMISSIONS GSM 1800 ABOVE 1GHZ- HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		1975.000	-80.87	15.57	-65.30	-30.00	-35.30	peak			
2		2775.000	-77.73	16.01	-61.72	-30.00	-31.72	peak			
3	*	3580.000	-73.74	16.40	-57.34	-30.00	-27.34	peak			

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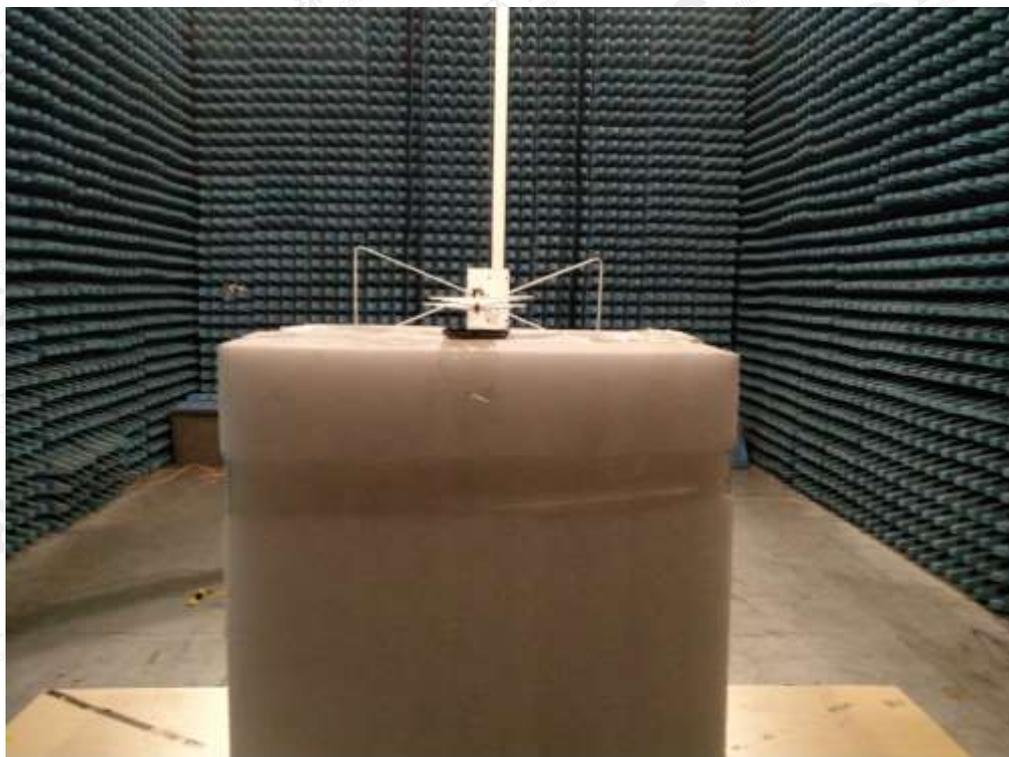
RADIATED SPURIOUS EMISSIONS GSM 1800 ABOVE 1GHZ- VERTICAL



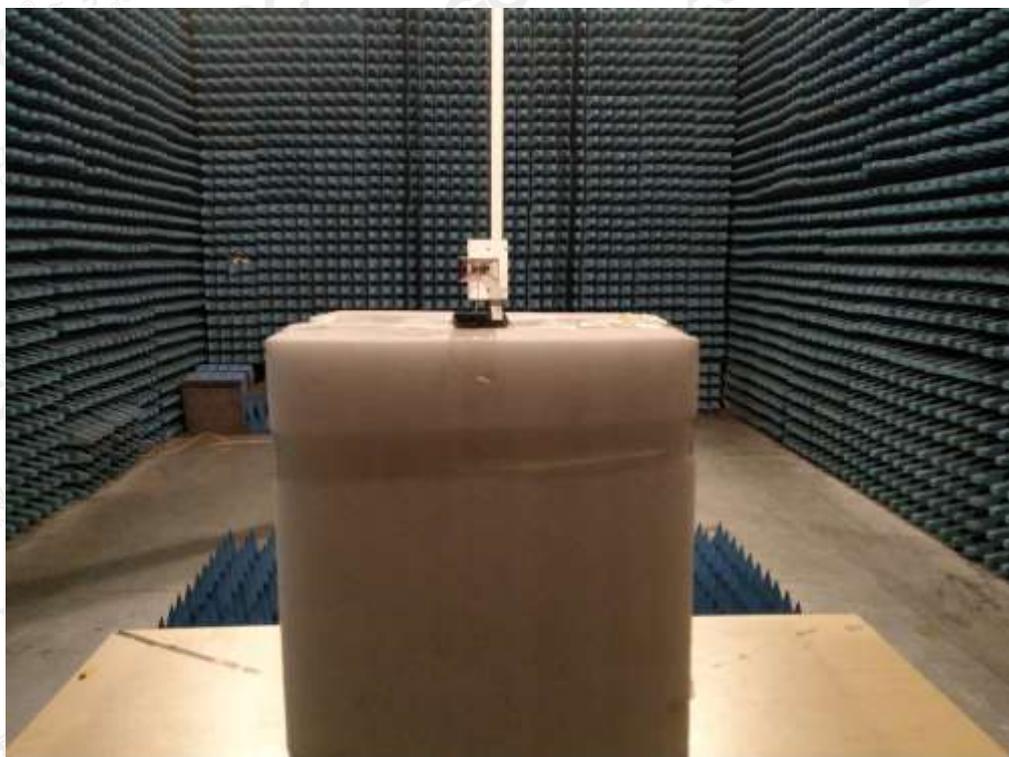
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		2035.000	-79.82	15.59	-64.23	-30.00	-34.23	peak			
2		2815.000	-76.95	16.05	-60.90	-30.00	-30.90	peak			
3	*	3480.000	-73.83	16.25	-57.58	-30.00	-27.58	peak			

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APPENDIX AA: PHOTOGRAPHS OF TEST SETUP
RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION-ABOVE 1G TEST SETUP



---END OF REPORT---

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