

Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 1 of 152

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E

OF

PDA Phone Product Name:

Brand Name: Sony

C1905 Model No.:

PM-0490-BV Type No.:

Model Difference: N/A

FCC ID: PY7PM-0490

Report No.: EH/2013/40024

Issue Date: Jun. 06, 2013

FCC Rule Part: 2,22H & 24E

Prepared for: Sony Mobile Communications AB

Nya Vattentornet 22188 Lund/SWEDEN

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.134, Wu Kung Road, New Taipei Industrial Park,

Wuku District, New Taipei City, Taiwan 24803

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 2 of 152

VERIFICATION OF COMPLIANCE

Applicant: Sony Mobile Communications AB

Nya Vattentornet 22188 Lund/SWEDEN

Product Name: PDA Phone

Brand Name: Sony

Model No.: C1905

Type No.: PM-0490-BV

Model Difference: N/A

FCC ID: PY7PM-0490

File Number: EH/2013/40024

Date of test: Apr. 01, 2013 ~ May. 26, 2013

Date of EUT Received: Apr. 01, 2013

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E.

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

Test By:	Marcus Iseng	Date:	Jun. 06, 2013
Prepared By:	Marcus Tseng/Engineer Utoletta Tang	— Date:	Jun. 06, 2013
Approved By:	Violetta Tang / Clerk Jim Chang / Supervisor	Date:	Jun. 06, 2013

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 3 of 152

Revision History

Report Number	Revision	Description	Issue Date
EH/2013/40024	Rev.01	Initial creation of document	May. 27, 2013
EH/2013/40024	Rev.02	1. Update Product Description "Marketing Name" into "Model No." and update "Model No." into "Type No." on Page 1, 2 and 6.	Jun. 06, 2013

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 4 of 152

Table of Contents

1.	GEN	NERAL PRODUCT INFORMATION	6
	1.1.	Product Description	6
	1.2.	Related Submittal(s) / Grant (s)	12
	1.3.	Test Methodology	12
	1.4.	Test Facility	12
	1.5.	Special Accessories	12
	1.6.	Equipment Modifications	12
2.	SYS	TEM TEST CONFIGURATION	13
	2.1.	EUT Configuration.	13
	2.2.	EUT Exercise	13
	2.3.	Test Procedure	13
	2.4.	Measurement Equipment Used:	14
	2.5.	Configuration of Tested System	16
3.	SUM	IMARY OF TEST RESULTS	17
4.	DES	CRIPTION OF TEST MODES	18
5.	ME	ASUREMENT UNCERTAINTY	19
6.	RF I	POWER OUTPUT MEASUREMENT	20
	6.1.	Standard Applicable:	20
	6.2.	Test Set-up:	20
	6.3.	Measurement Procedure:	
	6.4.	Measurement Equipment Used:	21
	6.5.	Measurement Result:	22
7.	ERP	P, EIRP MEASUREMENT	26
	7.1.	Standard Applicable:	26
	7.2.	Test SET-UP (Block Diagram of Configuration):	26
	7.3.	Measurement Procedure:	28
	7.4.	Measurement Equipment Used:	29
	7.5.	Measurement Result: (Peak) –using option of peak measurement	30
8.	OCC	CUPIED BANDWIDTH MEASUREMENT	36
	8.1.	Standard Applicable:	36
	8.2.	Test Set-up:	
	8.3.	Measurement Procedure:	36
	8.4.	Measurement Equipment Used:	36
	8.5.	Measurement Result:	36

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 5 of 152

9.	OUT	OF BAND EMISSION AT ANTENNA TERMINALS	48
	9.1.	Standard Applicable:	48
	9.2.	Test SET-UP:	48
	9.3.	Measurement Procedure:	49
	9.4.	Measurement Equipment Used:	49
	9.5.	Measurement Result:	49
10.	FIEI	D STRENGTH OF SPURIOUS RADIATION MEASUREMENT	98
	10.1.	Standard Applicable:	98
	10.2.	EUT Setup (Block Diagram of Configuration):	98
	10.3.	Measurement Procedure:	99
	10.4.	Measurement Equipment Used:	99
	10.5.	Measurement Result:	99
11.	FRE	QUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	112
	11.1.	Standard Applicable:	
	11.2.	Test Set-up:	112
	11.3.	Measurement Procedure:	113
	11.4.	Measurement Equipment Used:	113
	11.5.	Measurement Result:	114
12.	FRE	QUENCY STABILITY V.S. VOLTAGE MEASUREMENT	115
	12.1.		
	12.2.	Test Set-up:	115
	12.3.	Measurement Procedure:	115
	12.4.	Measurement Equipment Used:	115
	12.5.	Measurement Result:	116
13.	PEA	K TO AVERAGE RATIO	117
	13.1.	Standard Applicable:	117
	13.2.	Test SET-UP (Block Diagram of Configuration):	117
	13.3.	Measurement Procedure:	117
	13.4.	Measurement Equipment Used:	117
	13.5.	Measurement Result:	117
ME	ASUF	REMENT PLOT OF RADIATED SPURIOUS EMISSION	128

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 6 of 152

1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

general:			
Product Name:	PDA Phone		
Brand Name:	Sony		
Model No.:	C1905		
Type No.:	PM-0490-	BV	
Model Difference:	N/A		
Data Cable (USB):		: EC450, Supplier: K-one 242-6715.3, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No. Type No.:	: MH410c, Supplier: Foster Electric AG-1100	
Simple Hands-Free (SHF-Black):	Model No.: MH410c, Supplier: Foster Electric Type No.: CCA-0004017		
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013		
Hi-Fi Wireless Headset:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA Type No.: AG-0502)		
Hardware Version:	A		
Software Version:	15.1.A.1.3		
	3.7Vdc		
Power Supply:	Battery:	Model No.: BA900, Supplier: Sony Type No.: AB-0500	
	Adapter:	Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 7 of 152

Bluetooth BR+EDR:

Bluetooth Version:	V3.0+HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	9.22dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.46dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK, BPSK

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 8 of 152

WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	
11b/g	2412-2462	11	b: 17.61dBm g: 21.00dBm	DSSS, OFDM	
11n	HT20 2412-2462	11	HT20: 21.11dBm	OFDM	
11a	5725-5850	5	a: 20.12dBm		
11n (5GHz)	HT20 5725-5850	5	HT20: 20.13dBm	OFDM	
11n (5GHz)	HT40 5725-5850	2	HT40: 19.66dBm		
Antenna	Antenna Designation:		PIFA Antenna, 2.4GHz Gain: 2.55dBi 5GHz Gain: 1.66dBi (5725MHz-5850MHz)		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 9 of 152

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology	
	5150~5250	4	12.85dBm		
11a	5250~5350	4	12.81dBm	OFDM	
	5470~5725	11	12.94dBm		
	HT20 5150~5250	4	HT20: 12.87dBm		
11n	HT20 5250~5350	4	HT20: 12.87dBm	OFDM	
	HT20 5470~5725	8	HT20: 12.94dBm		
	HT40 5150~5250	2	HT40: 11.77dBm		
11n	HT40 5250~5350	2	HT40: 11.83dBm	OFDM	
	HT40 5470~5725	3	HT40: 11.88dBm		
Antenna Designation		PIFA Antenna, 5GHz Gain: -0.74dBi (5150MHz-5250MHz) 5GHz Gain: 1.01dBi (5250MHz-5350MHz) 5GHz Gain: 2.70dBi (5470MHz-5725MHz)			
Modulatio	Modulation type		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 10 of 152

GSM / WCDMA:

	Operating Frequency	Rated Power	
CHI N	GSM/GPRS 850, Class 12	824.2 MHz- 848.8 MHz	33dBm
Cellular Phone Standards Frequency	EDGE 850, Class 12	824.2 MHz- 848.8 MHz	27dBm
Range and Power.	GSM/GPRS 1900, Class 12 1850.2MHz – 1909.8MH		30dBm
	EDGE 1900, Class 12 1850.2MHz – 1909.8MHz		26dBm
Type of Emission:	GSM 850: 248KGXW, GSM 1900: 247KGXW GPRS 850: 246KGXW, GPRS 1900: 247KGXW EDGE 850: 249KG7W, EDGE 1900: 248KG7W		
IMEI:	004402146593334		

This test report applies for 850 /1900 GSM / GPRS / EDGE.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 11 of 152

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7	230
GSM 1900	3.7	180
GPRS 850	3.7	210
GPRS 1900	3.7	160
EDGE 850	3.7	130
EDGE 1900	3.7	120

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 12 of 152

1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: PY7PM-0490 filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

TS 151 010-1 is used to set, and measure the output power.

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, and Signal Bandwidth.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. & ANSI C63.10:2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 13 of 152

2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009 & ANSI C63.10:2009.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 14 of 152

2.4. Measurement Equipment Used:

	Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014			
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014			
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014			
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014			
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2012	08/11/2014			
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/17/2012	10/16/2013			
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014			
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014			
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014			
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014			
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013			

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 15 of 152

ERP, EI	ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014			
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014			
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013			
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014			
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013			
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2013			
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2013			
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2013	05/18/2014			
Horn antenna	ETS.LINDGREN	3117	123991	01/21/2013	01/20/2015			
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014			
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013			
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014			
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014			
Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013			
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2013	01/03/2014			
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014			
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014			
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2012	08/11/2014			
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/17/2012	10/16/2013			
Turn Table	HD	DT420	N/A	N.C.R	N.C.R			
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R			
Controller	HD	HD100	N/A	N.C.R	N.C.R			
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/04/2013	01/03/2014			
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2013	01/03/2014			
Filter 800-1000	Micro-Tronics	EWT	M2	02/28/2013	02/28/2014			
Filter 1800-2000	Micro-Tronics	EWT	M2	02/28/2013	02/28/2014			
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/28/2014			
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/28/2014			
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013			

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 16 of 152

Configuration of Tested System 2.5.

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)



Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

EUT

Remote Side

CMU200

Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Com- munication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Power Meter	Anritsu	ML2495A	1005007	shielded	Un-shielded

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 17 of 152

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
\$2.1046(a) \$22.913(a)(2) \$24.232(c)	RF Power Output	Compliant
\$2.1046(a) \$22.913(a)(2) \$24.232(c)\$27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
\$2.1051 \$22.917(a) \$24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
\$2.1053 \$22.917(a) \$24.238(a)	Field Strength of Spurious Radiation	Compliant
§24.232(d)	Peak to Average Ratio	Compliant
\$2.1055(a)(1) \$22.355 \$24.235	Frequency Stability vs. Temperature	Compliant
\$2.1055(d)(2) \$22.355 \$24.235	Frequency Stability vs. Voltage	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	26.45	ERP	0.442
GSM 1900 Band	30.95	EIRP	1.245
GPRS 850 Band	26.47	ERP	0.444
GPRS 1900 Band	30.82	EIRP	1.208
EDGE 850 Band	24.28	ERP	0.268
EDGE 1900 Band	29.58	EIRP	0.908

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 18 of 152

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The list of channel selected to conduct the measurements

GSM/GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High AFRCN 810 at 1909.8MHz

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/EDGE. The worst-case of H position for GSM 850, E1 position for GSM 1900 band were reported.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 19 of 152

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
RF Power Output	+/- 1.42 dB		
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB		
99% Occupied Bandwidth	+/- 123.36 Hz		
Out of Band Emissions at Antenna	+/- 1.55 dB		
Terminals and Band Edge			
Peak to Average Ratio	+/- 1.55 dB		
Frequency Stability vs. Temperature	+/- 123.36 Hz		
Frequency Stability vs. Voltage	+/- 123.36 Hz		
Temperature	+/- 0.8 °C		
Humidity	+/- 4.7 %		
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%		

Radiated Spurious Emission:

	30MHz - 180MHz: +/- 3.37dB		
Measurement uncertainty (Polarization : Vertical)	180MHz -417MHz: +/- 3.19dB		
	0.417GHz-1GHz: +/- 3.19dB		
	1GHz - 18GHz: +/- 4.04dB		
	18GHz - 40GHz: +/- 4.04dB		

	30MHz - 167MHz: +/- 4.22dB		
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB		
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB		
	1GHz - 18GHz: +/- 4.08dB		
	18GHz - 40GHz: +/- 4.08dB		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 20 of 152

RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

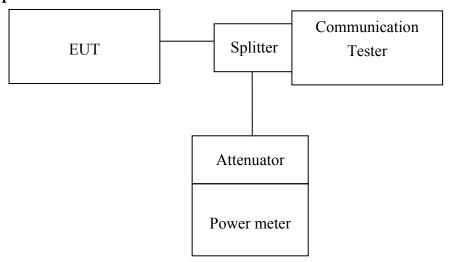
According to FCC §2.1046.

FCC 22.913(a) Mobile station is limited to 7W.

FCC 24.232(c) Peak Power Measurement limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

6.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 21 of 152

6.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.5(d)(4)

Set CMU200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 22 of 152

6.5. Measurement Result:

6.5.1. RF Conducted Output Power

6.5.1.1.: GSM/GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	Averager Burst Power (dBm)
	824.2	128	33.20	33.00
GSM 850	836.6	190	33.20	32.90
	848.8	251	33.20	33.00

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	Averager Burst Power (dBm)
	1850.2	512	30.30	30.00
GSM 1900	1880.0	661	30.20	29.90
	1909.8	810	30.30	30.00

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
	824.2	128	33.20	33.00	29.80	29.60
GPRS 850	836.6	190	33.20	32.90	29.80	29.70
	848.8	251	33.20	32.90	29.80	29.60

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
	824.2	128	28.40	28.20	27.70	27.50
GPRS 850	836.6	190	28.40	28.20	27.70	27.50
	848.8	251	28.30	28.20	27.70	27.50

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 23 of 152

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
	1850.2	512	30.20	30.00	30.00	29.80
GPRS 1900	1880.0	661	30.20	29.80	30.00	29.70
	1909.8	810	30.30	30.10	29.80	29.40

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
	1850.2	512	28.10	28.00	28.00	27.80
GPRS 1900	1880.0	661	28.10	27.90	27.70	27.50
	1909.8	810	28.00	27.70	27.60	27.40

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
	824.2	128	29.70	26.40	29.40	26.30
EDGE 850	836.6	190	29.40	26.30	29.40	26.30
	848.8	251	29.50	26.40	29.50	26.30

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
	824.2	128	29.30	26.10	29.30	26.00
EDGE 850	836.6	190	29.20	26.00	29.00	26.10
	848.8	251	29.10	26.00	29.30	26.00

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 24 of 152

EUT Mode	Frequency (MHz)	СН	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
	1850.2	512	28.80	25.60	28.60	25.40
EDGE 1900	1880.0	661	28.70	25.40	28.40	25.20
	1909.8	810	28.50	25.30	28.30	25.10

EUT Mode	Frequency (MHz)	СН	Peak Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
	1850.2	512	28.40	25.30	28.10	25.00
EDGE 1900	1880.0	661	28.10	25.00	27.80	24.70
	1909.8	810	28.00	24.80	27.70	24.50

Cable loss offset Low Band: 13.7dB Cable loss offset High Band: 13.9dB

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 25 of 152

6.5.1.2.: Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.3	28.1	25.1	24.0	22.1	20.0	17.9	16.0	14.0

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.0	10.0	8.0	5.9	4.0	2.0	-0.1

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 26 of 152

7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

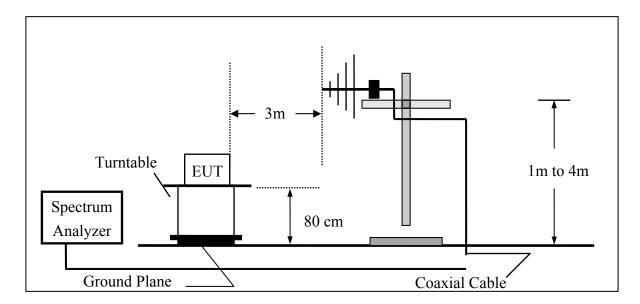
According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile station is limited to 2W EIRP.

7.2. Test SET-UP (Block Diagram of Configuration):

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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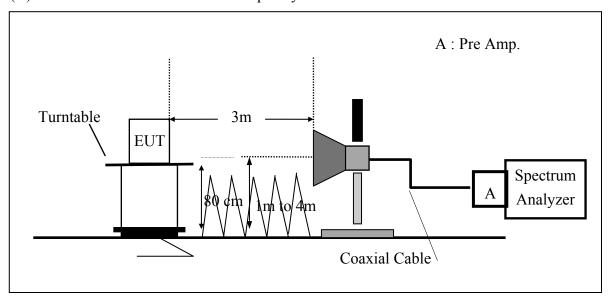
t (886-2) 2299-3279



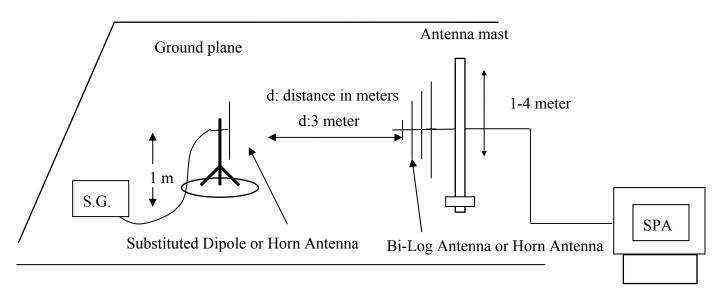
Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 27 of 152

(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 28 of 152

7.3. Measurement Procedure:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 -1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB) EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)

Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3xRBW. Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = $2 \times \text{occupied BW}$;

Set RBW $\approx 1 \sim 5\%$ of the span, not to exceed 1 MHz

Set $VBW = 3 \times RBW$;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601 points, then sweet time = $601*10^{-3} = 6s$.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 29 of 152

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 30 of 152

7.5. Measurement Result: (Peak) –using option of peak measurement

	I	EUT			N	Ieasurem	ent			
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
		824.20	128	V	24.58	3.96	-2.8	25.74	38.45	
		824.20	120	Н	22.45	3.96	-2.8	23.62	38.45	
	Н	836.60	190	V	25	4	-2.82	26.18	38.45	
	11	830.00	190	Н	22.17	4	-2.82	23.35	38.45	
		848.80	251	V	25.26	4.03	-2.84	26.45	38.45	
		848.80	231	Н	21.88	4.03	-2.84	23.07	38.45	
		824.20	128	V	19.46	3.96	-2.8	20.63	38.45	
		824.20	120	Н	23.1	3.96	-2.8	24.26	38.45	
GSM 850	E1	E1	836.60	190	V	19.32	4	-2.82	20.49	38.45
GSWI 650		830.00	190	Н	23.09	4	-2.82	24.26	38.45	
		848.80	251	V	20.61	4.03	-2.84	21.8	38.45	
		848.80	231	Н	22.84	4.03	-2.84	24.03	38.45	
		824.20	128	V	20.69	3.96	-2.8	21.86	38.45	
	E2	024.20	120	Н	24.35	3.96	-2.8	25.51	38.45	
		E2 836.60	190	V	19.7	4	-2.82	20.88	38.45	
			190	Н	24.54	4	-2.82	25.72	38.45	
		040.00	V	19.51	4.03	-2.84	20.7	38.45		
		848.80	251	Н	24.52	4.03	-2.84	25.7	38.45	

Remark:

(1) The RBW, VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 31 of 152

	I	EUT			N	Ieasurem	ent		
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
		1850.20	512	V	11.48	4.17	-4.29	29.31	33.00
		1830.20	312	Н	9.56	4.51	-4.29	28.96	33.00
	Н	1880.00	661	V	11.78	4.13	-4.33	29.19	33.00
	11	1880.00	001	Н	9.8	4.44	-4.33	28.67	33.00
		1909.80	810	V	12.08	4.09	-4.37	28.86	33.00
-		1909.80	010	Н	10.04	4.36	-4.37	26.6	33.00
		1850.20	512	V	11.48	4.17	-4.29	27.26	33.00
		1630.20	312	Н	9.56	4.51	-4.29	21.16	33.00
GSM 1900	E1	1880.00	661	V	11.78	4.13	-4.33	30.95	33.00
G5W1 1700	LI	1000.00	001	Н	9.8	4.44	-4.33	23.23	33.00
		1909.80	810	V	12.08	4.09	-4.37	28.22	33.00
		1707.00	010	Н	10.04	4.36	-4.37	21.77	33.00
		1850.20	512	V	11.48	4.17	-4.29	26.36	33.00
E2		1630.20	312	Н	9.56	4.51	-4.29	27	33.00
	F2	1880.00	661	V	11.78	4.13	-4.33	28.34	33.00
	154	1880.00	001	Н	9.8	4.44	-4.33	29.31	33.00
		1909.80	810	V	12.08	4.09	-4.37	28.18	33.00
		1707.00	010	Н	10.04	4.36	-4.37	28.35	33.00

Remark:

The RBW, VBW of SPA for measurement RBW=300K, VBW=1MHz (1)

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Page: 32 of 152

]	EUT			N	1easureme	ent		
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
		824.20	128	V	24.58	3.96	-2.8	25.74	38.45
		824.20	120	Н	22.38	3.96	-2.8	23.55	38.45
	Н	836.60	190	V	24.98	4	-2.82	26.15	38.45
	П	830.00	190	Н	22.23	4	-2.82	23.4	38.45
		848.80	251	V	25.28	4.03	-2.84	26.47	38.45
_		848.80	231	Н	21.9	4.03	-2.84	23.08	38.45
		824.20	128	V	19.49	3.96	-2.8	20.66	38.45
		024.20	120	Н	23.16	3.96	-2.8	24.32	38.45
GPRS 850	E1	836.60	190	V	19.15	4	-2.82	20.33	38.45
GI KS 650	Ei	830.00	190	Н	23.14	4	-2.82	24.31	38.45
		848.80	251	V	20.49	4.03	-2.84	21.68	38.45
		040.00	231	Н	22.91	4.03	-2.84	24.09	38.45
		824.20	128	V	20.68	3.96	-2.8	21.85	38.45
E2		824.20	120	Н	24.4	3.96	-2.8	25.57	38.45
	E2	926.60	190	V	19.76	4	-2.82	20.94	38.45
	EZ	836.60	190	Н	24.54	4	-2.82	25.72	38.45
		040 00	251	V	19.56	4.03	-2.84	20.75	38.45
	84	848.80	251	Н	24.51	4.03	-2.84	25.7	38.45

Remark:

The RBW, VBW of SPA for measurement RBW=300 KHz, VBW=1MHz (1)

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 33 of 152

	I	EUT			N	1easureme	ent		
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
		1850.20	512	V	11.48	4.17	-4.29	29.26	33.00
		1830.20	312	Н	9.56	4.51	-4.29	29.03	33.00
	Н	1880.00	661	V	11.78	4.13	-4.33	28.9	33.00
	11	1880.00	001	Н	9.8	4.44	-4.33	28.75	33.00
		1909.80	810	V	12.08	4.09	-4.37	28.86	33.00
		1707.00	010	Н	10.04	4.36	-4.37	26.86	33.00
		1850.20	512	V	11.48	4.17	-4.29	27.28	33.00
			312	Н	9.56	4.51	-4.29	20.91	33.00
GPRS 1900	E1		661	V	11.78	4.13	-4.33	30.82	33.00
GI KS 1700	Di	1880.00	001	Н	9.8	4.44	-4.33	23.11	33.00
		1909.80	810	V	12.08	4.09	-4.37	28.4	33.00
		1303.00	010	Н	10.04	4.36	-4.37	21.53	33.00
		1850.20	512	V	11.48	4.17	-4.29	27.45	33.00
I		1030.20	312	Н	9.56	4.51	-4.29	28.55	33.00
	E2	1880 00	661	V	11.78	4.13	-4.33	28.4	33.00
	1.2	1880.00	001	Н	9.8	4.44	-4.33	29.06	33.00
		1909.80	810	V	12.08	4.09	-4.37	27.26	33.00
		1707.00	010	Н	10.04	4.36	-4.37	28.13	33.00

Remark:

The RBW, VBW of SPA for measurement RBW=300 KHz, VBW=1MHz (1)

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 34 of 152

EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
EDGE 850	Н	824.20	128	V	21.82	3.96	-2.8	22.99	38.45	
				Н	18.84	3.96	-2.8	20.01	38.45	
		836.60	190	V	22.56	4	-2.82	23.74	38.45	
				Н	18.71	4	-2.82	19.88	38.45	
		848.80	251	V	23.1	4.03	-2.84	24.28	38.45	
				Н	18.59	4.03	-2.84	19.78	38.45	
	E1	824.20	128	V	15.44	3.96	-2.8	16.6	38.45	
				Н	19.93	3.96	-2.8	21.1	38.45	
		836.60	190	V	15.57	4	-2.82	16.75	38.45	
				Н	20.14	4	-2.82	21.32	38.45	
		848.80	251	V	17.37	4.03	-2.84	18.56	38.45	
				Н	20.14	4.03	-2.84	21.33	38.45	
	E2	824.20	128	V	17.18	3.96	-2.8	18.34	38.45	
				Н	21.95	3.96	-2.8	23.11	38.45	
		836.60	190	V	16.4	4	-2.82	17.58	38.45	
				Н	22.5	4	-2.82	23.67	38.45	
		848.80	251	V	16.47	4.03	-2.84	17.65	38.45	
				Н	22.42	4.03	-2.84	23.61	38.45	

Remark:

The RBW, VBW of SPA for measurement RBW=300 KHz, VBW=1MHz (1)

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Page: 35 of 152

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	СН	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	Н	1850.20	512	V	11.48	4.17	-4.29	28.02	33.00
				Н	9.56	4.51	-4.29	27.81	33.00
		1880.00	661	V	11.78	4.13	-4.33	27.68	33.00
				Н	9.8	4.44	-4.33	27.57	33.00
		1909.80	810	V	12.08	4.09	-4.37	27.58	33.00
				Н	10.04	4.36	-4.37	25.38	33.00
	E1	1850.20	512	V	11.48	4.17	-4.29	25.96	33.00
				Н	9.56	4.51	-4.29	19.4	33.00
		1880.00	661	V	11.78	4.13	-4.33	29.58	33.00
				Н	9.8	4.44	-4.33	21.78	33.00
		1909.80	810	V	12.08	4.09	-4.37	26.84	33.00
				Н	10.04	4.36	-4.37	20.34	33.00
	E2	1850.20	512	V	11.48	4.17	-4.29	26.16	33.00
				Н	9.56	4.51	-4.29	27.19	33.00
		1880.00	661	V	11.78	4.13	-4.33	27.15	33.00
				Н	9.8	4.44	-4.33	27.74	33.00
		1909.80	810	V	12.08	4.09	-4.37	26.82	33.00
				Н	10.04	4.36	-4.37	27.23	33.00

Remark:

The RBW, VBW of SPA for measurement RBW=300 KHz, VBW=1MHz (1)

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 36 of 152

OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 20dB BW is arrow-mark

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 37 of 152

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	824.20	128	0.248
GSM 850	836.60	190	0.243
	848.80	251	0.247

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.20	512	0.242
GSM 1900	1880.00	661	0.247
	1909.80	810	0.245

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	824.20	128	0.244
GPRS 850	836.60	190	0.242
	848.80	251	0.246

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.20	512	0.246
GPRS 1900	1880.00	661	0.246
	1909.80	810	0.247

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 38 of 152

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	824.20	128	0.248
EDGE 850	836.60	190	0.249
	848.80	251	0.246

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
	1850.20	512	0.248
EDGE 1900	1880.00	661	0.247
	1909.80	810	0.247

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 39 of 152

Figure 8-1: GSM 850 Channel Low

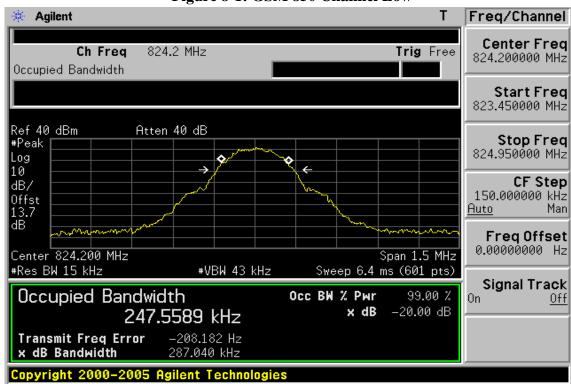
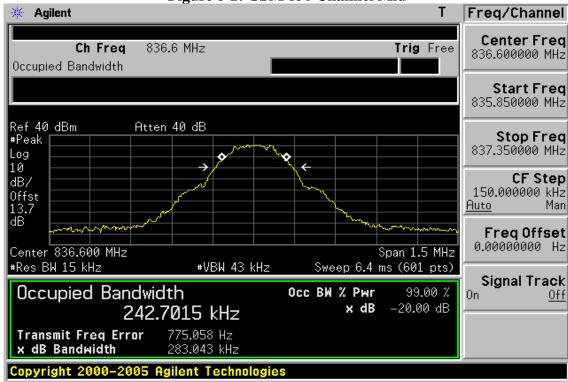


Figure 8-2: GSM 850 Channel Mid



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 40 of 152

Figure 8-3: GSM 850 Channel High

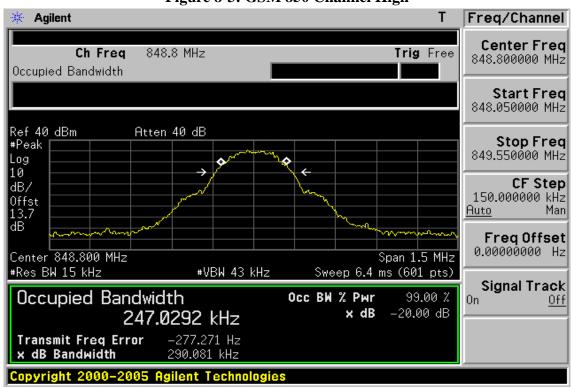


Figure 8-4: GSM 1900 Channel Low



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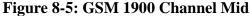
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Page: 41 of 152



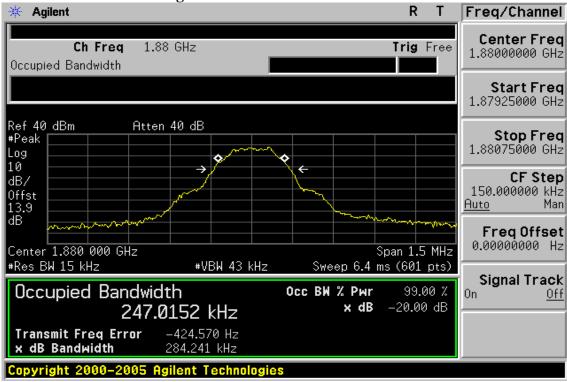
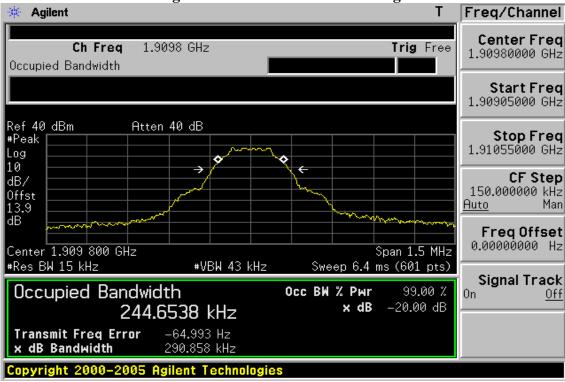


Figure 8-6: GSM 1900 Channel High



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 42 of 152

Figure 8-7: GPRS 850 Channel Low

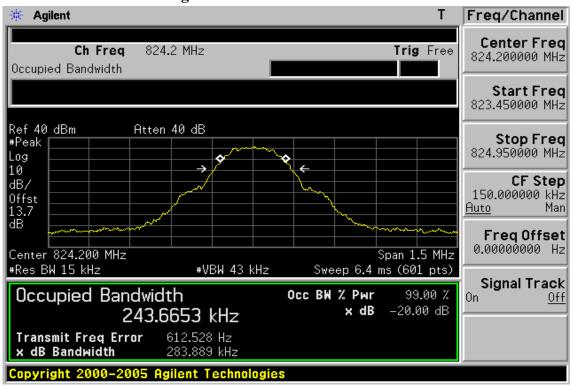
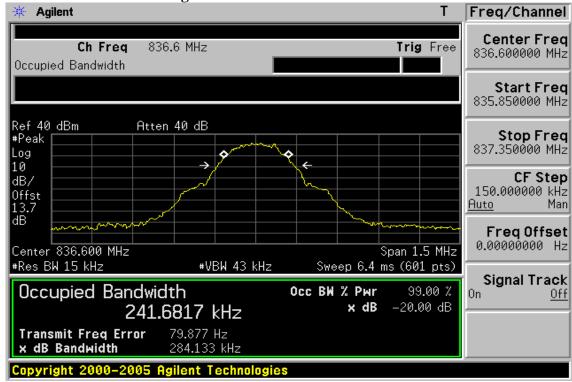


Figure 8-8: GPRS 850 Channel Mid



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Page: 43 of 152

GPRS Figure 8-9: GPRS 850 Channel High

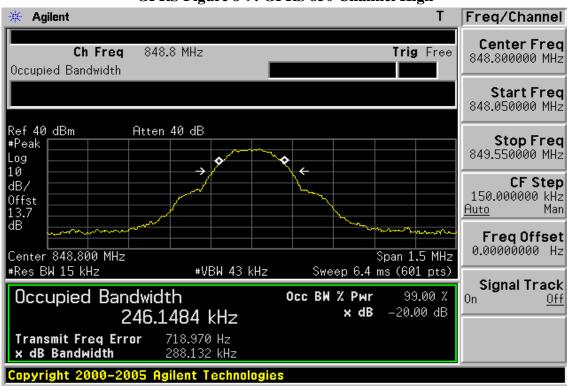
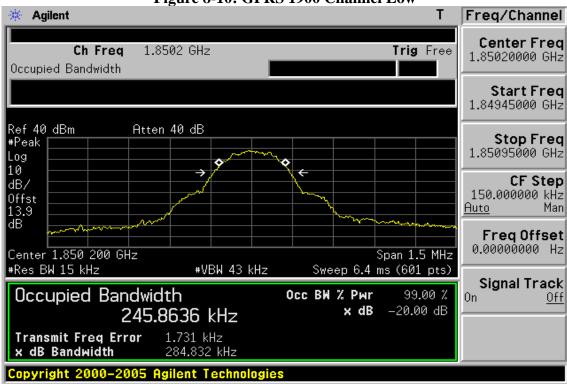


Figure 8-10: GPRS 1900 Channel Low



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Page: 44 of 152



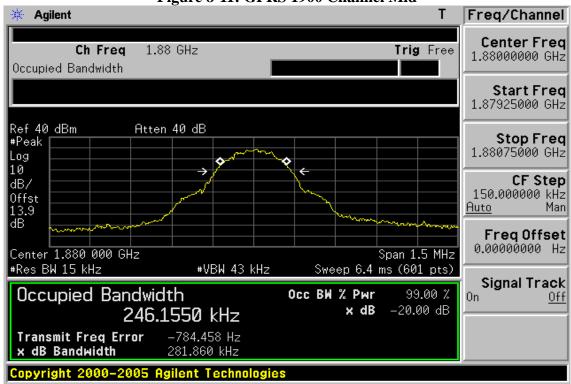
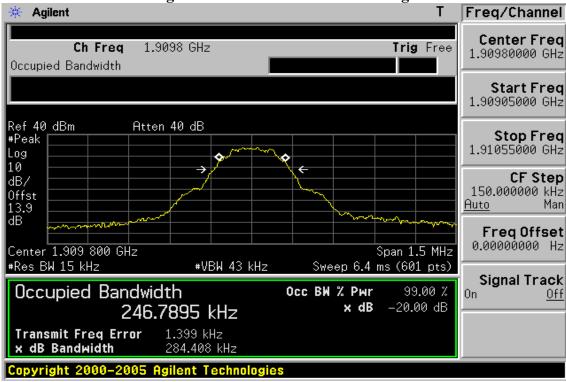


Figure 8-12: GPRS 1900 Channel High



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 45 of 152

Figure 8-13: EDGE 850 Channel Low

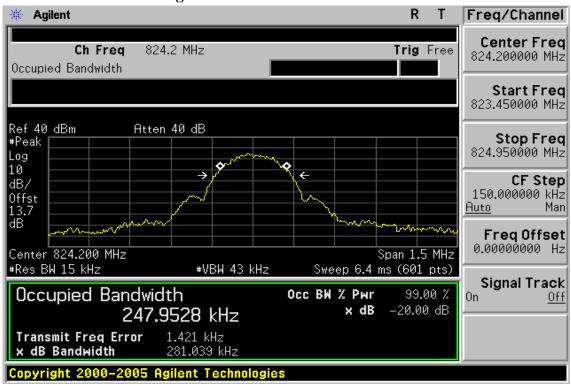
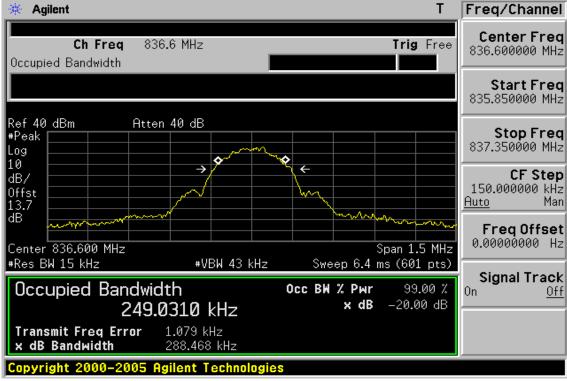


Figure 8-14: EDGE 850 Channel Mid



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Page: 46 of 152

GPRS Figure 8-15: EDGE 850 Channel High

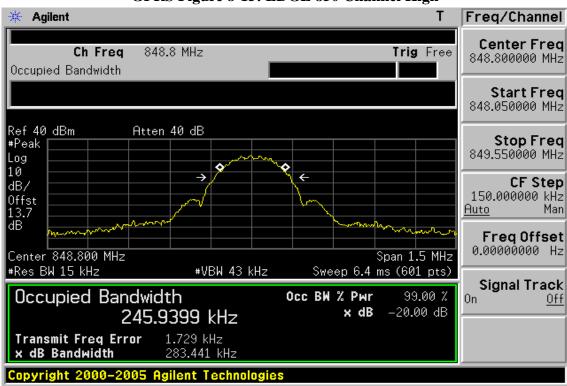
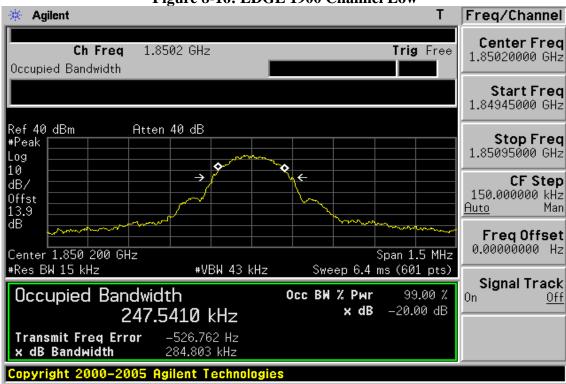


Figure 8-16: EDGE 1900 Channel Low



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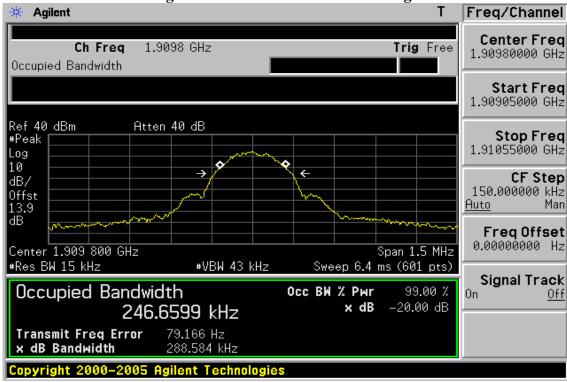
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Page: 47 of 152





Figure 8-18: EDGE 1900 Channel High



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Page: 48 of 152

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

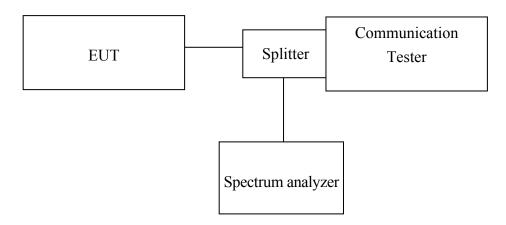
9.1. Standard Applicable:

According to FCC §2.1051.

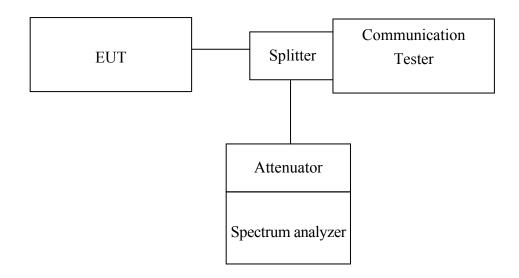
FCC §22.917(a), §24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

9.2. Test SET-UP:

Out of band emission



Band Edge



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Page: 49 of 152

9.3. Measurement Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. Limit, -13dBm

Conducted Emission:

- To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G, 10G to 15G and 15G to 20GHz
- Via Software, combine 6 spans of frequency range into one plot 4、

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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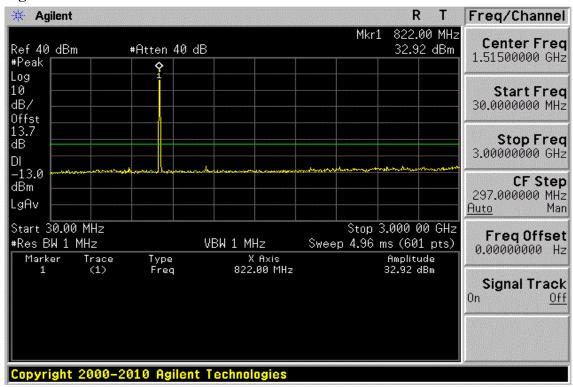
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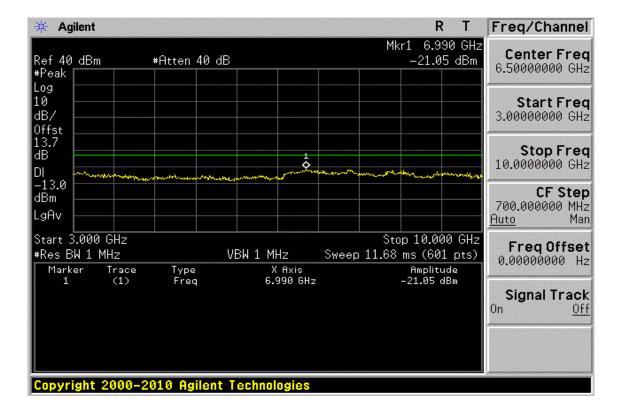
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 50 of 152

Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest





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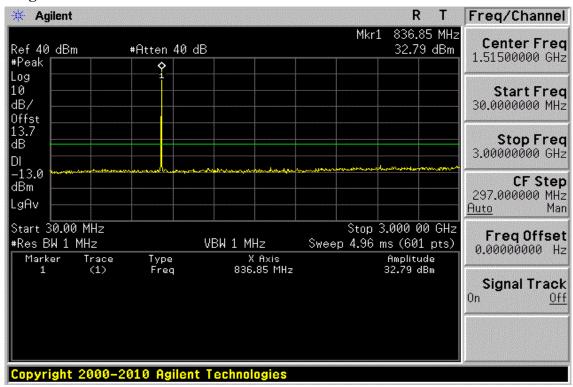
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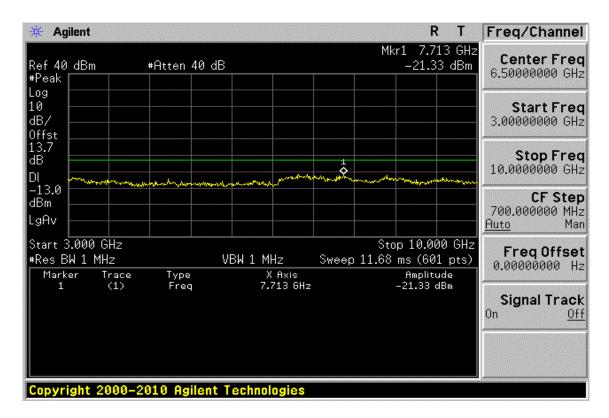


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 51 of 152

Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid





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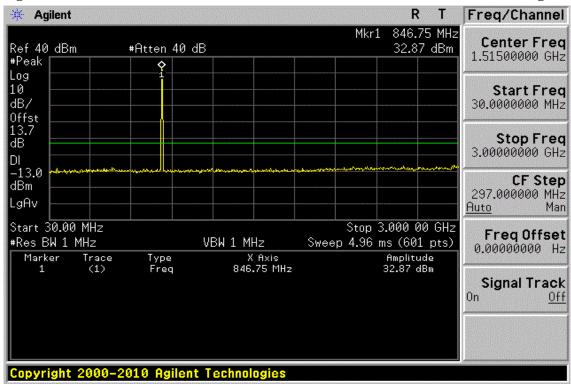
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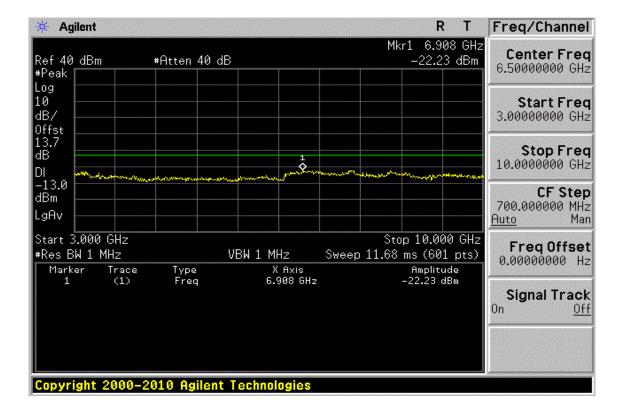
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Page: 52 of 152

Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 53 of 152

Out of Band emission at antenna terminals - GSM 850

Fundamental Frequency :824.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
1648.40	Н		-13.00	
2472.60	Н		-13.00	
3296.80	Н		-13.00	
4121.00	Н		-13.00	
4945.20	Н		-13.00	
5769.40	Н		-13.00	
6593.60	Н		-13.00	
6990.00	S	-21.05	-13.00	8.05
7417.80	Н		-13.00	
8242.00	Н		-13.00	
= : = :00				

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 54 of 152

Fundamental Frequency :836.6 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
<30	S		-13.00	
30-1000	S		-13.00	
1673.20	Н		-13.00	
2509.80	Н		-13.00	
3346.40	Н		-13.00	
4183.00	Н		-13.00	
5019.60	Н		-13.00	
5856.20	Н		-13.00	
6692.80	Н		-13.00	
7529.40	Н		-13.00	
7713.00	S	-21.33	-13.00	8.33
8366.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 55 of 152

Fundamental Frequency :848.8MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
<30	S		-13.00	
30-1000	S		-13.00	
1697.60	Н		-13.00	
2546.40	Н		-13.00	
3395.20	Н		-13.00	
4244.00	Н		-13.00	
5092.80	Н		-13.00	
5941.60	Н		-13.00	
6790.40	Н		-13.00	
6908.00	S	-22.23	-13.00	9.23
7639.20	Н		-13.00	
8488.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

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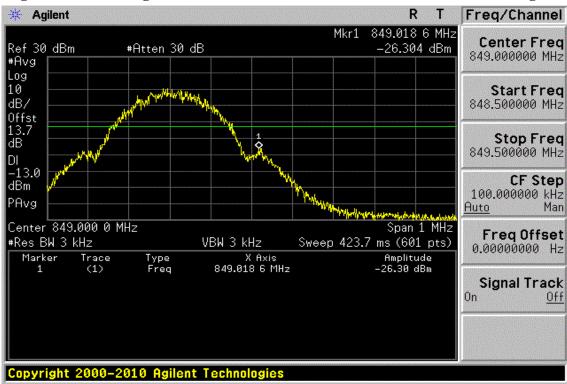
Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 56 of 152

Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest



Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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Page: 57 of 152

Band edge emission at antenna terminals - GSM 850 Low & High

Test Mode **GSM 850** Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.994	-26.47	-13.00	13.47
849.018	-26.30	-13.00	13.30

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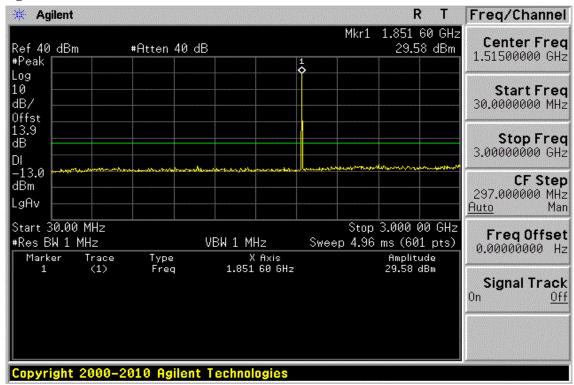
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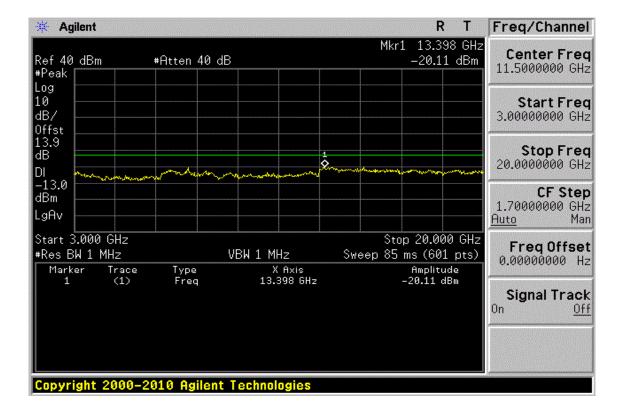


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 58 of 152

Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest





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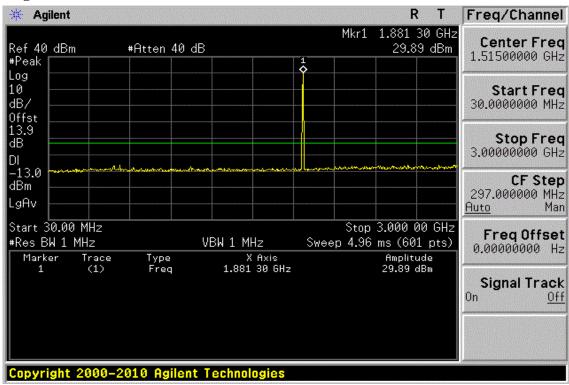
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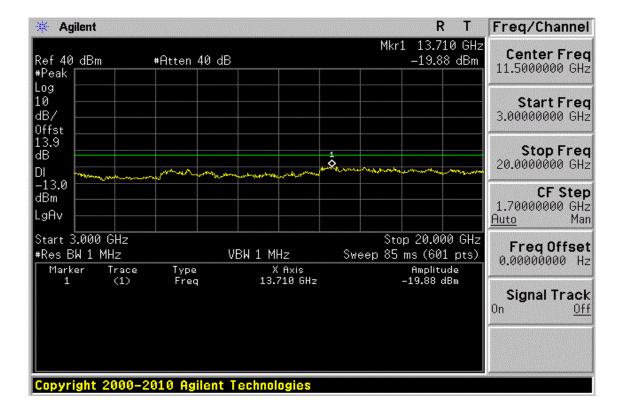


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 59 of 152

Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid





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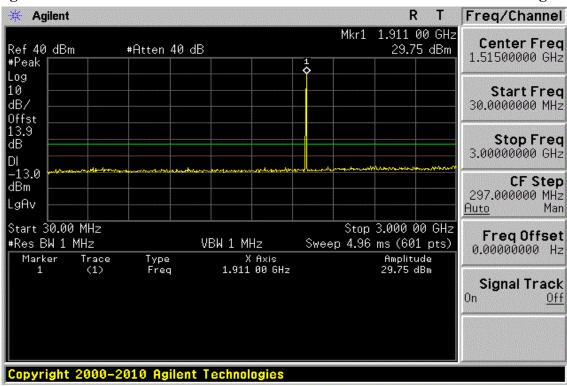
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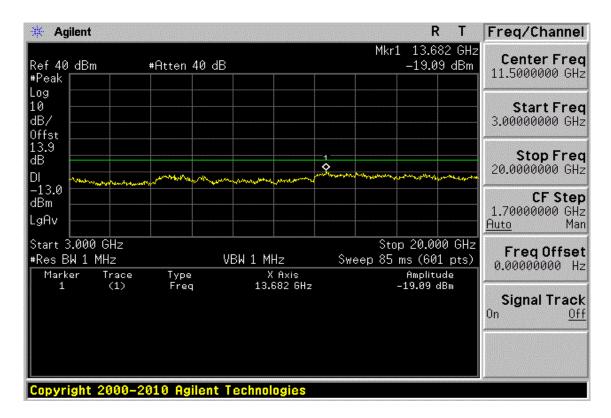


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Page: 60 of 152

Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 61 of 152

Out of Band emission at antenna terminals - GSM 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3700.40	Н		-13.00	
5550.60	Н		-13.00	
7400.80	Н		-13.00	
9251.00	Н		-13.00	
11101.20	Н		-13.00	
12951.40	Н		-13.00	
13398.00	S	-20.11	-13.00	7.11
14801.60	Н		-13.00	
16651.80	Н		-13.00	
18502.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 62 of 152

Fundamental Frequency :1880.0 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
< 30	S		-13.00	
30-1000	S		-13.00	
3760.00	Н		-13.00	
5640.00	Н		-13.00	
7520.00	Н		-13.00	
9400.00	Н		-13.00	
11280.00	Н		-13.00	
13160.00	Н		-13.00	
13710.00	S	-19.88	-13.00	6.88
15040.00	Н		-13.00	
16920.00	Н		-13.00	
18800.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 63 of 152

Fundamental Frequency :1909.8 MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
< 30	S		-13.00	
30-1000	S		-13.00	
3819.60	Н		-13.00	
5729.40	Н		-13.00	
7639.20	Н		-13.00	
9549.00	Н		-13.00	
11458.80	Н		-13.00	
13368.60	Н		-13.00	
13682.00	S	-19.09	-13.00	6.09
15278.40	Н		-13.00	
17188.20	Н		-13.00	
19098.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 64 of 152

Figure 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

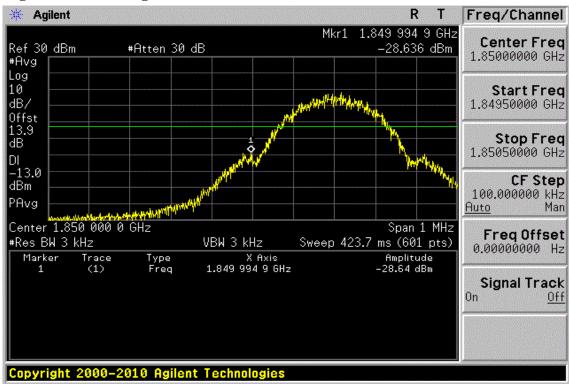
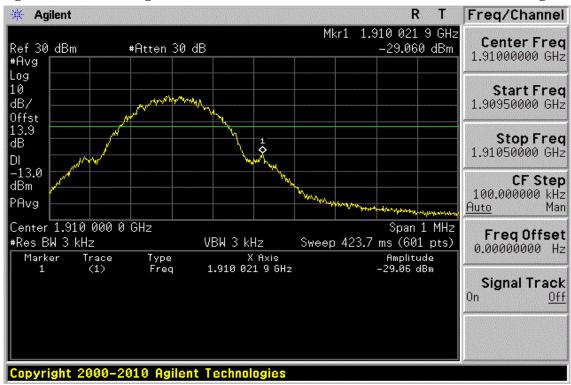


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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Page: 65 of 152

Band edge emission at antenna terminals - GSM 1900 Low & High

Engineer Test Mode GSM 1900 :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.994	-28.64	-13.00	15.64
1910.021	-29.06	-13.00	16.06

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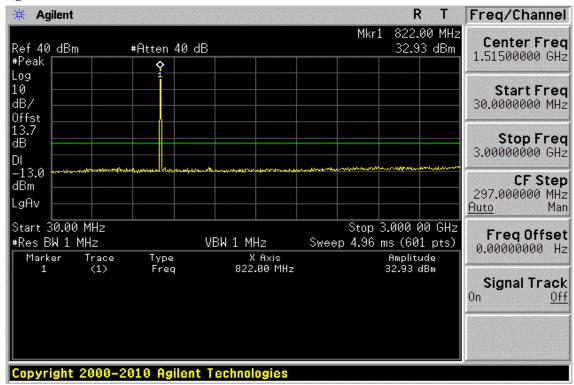
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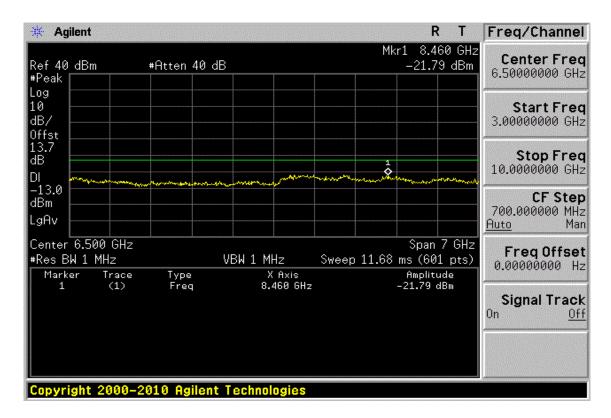


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 66 of 152

Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest





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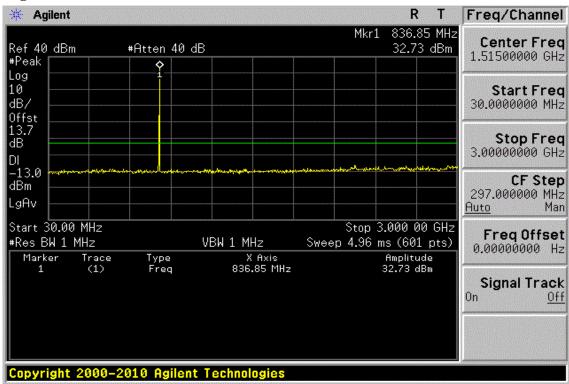
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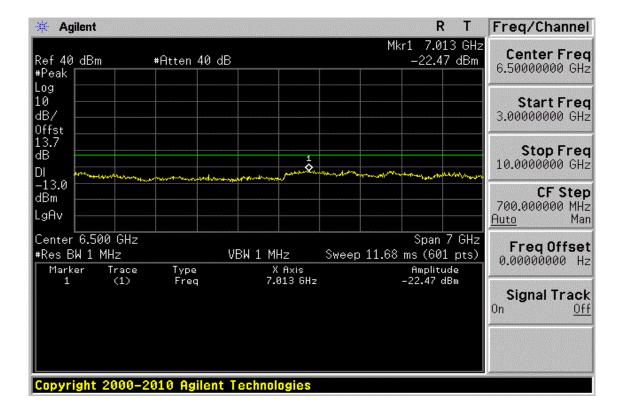
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Page: 67 of 152

Figure 9-12: Out of Band emission at antenna terminals - GPRS 850 Channel Mid





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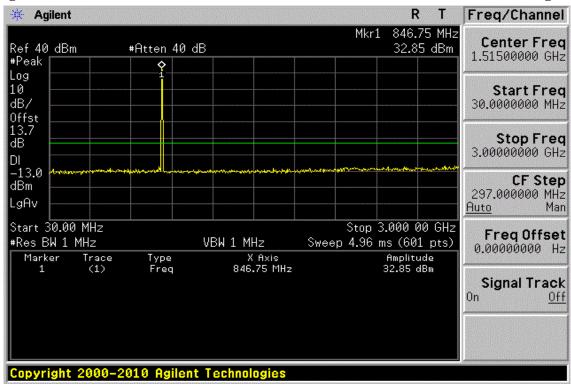
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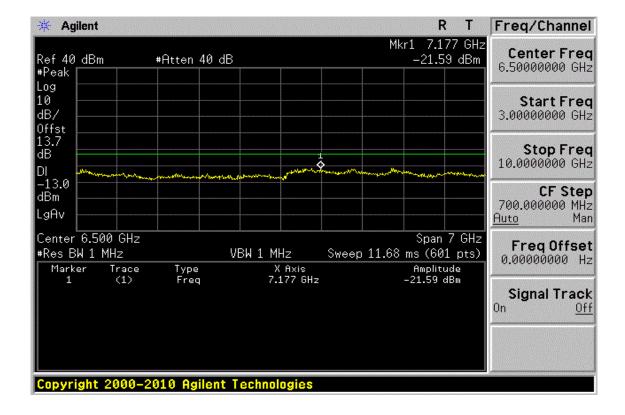
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Page: 68 of 152

Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 69 of 152

Out of Band emission at antenna terminals - GPRS 850

Fundamental Frequency :824.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
< 30	S		-13.00	
30-1000	S		-13.00	
1648.40	Н		-13.00	
2472.60	Н		-13.00	
3296.80	Н		-13.00	
4121.00	Н		-13.00	
4945.20	Н		-13.00	
5769.40	Н		-13.00	
6593.60	Н		-13.00	
7417.80	Н		-13.00	
8242.00	Н		-13.00	
8460.00	S	-21.79	-13.00	8.79

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 70 of 152

Fundamental Frequency :836.6 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
<30	S		-13.00	
30-1000	S		-13.00	
1673.20	Н		-13.00	
2509.80	Н		-13.00	
3346.40	Н		-13.00	
4183.00	Н		-13.00	
5019.60	Н		-13.00	
5856.20	Н		-13.00	
6692.80	Н		-13.00	
7013.00	S	-22.47	-13.00	9.47
7529.40	Н		-13.00	
8366.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 71 of 152

Fundamental Frequency :848.8MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
< 30	S		-13.00	
30-1000	S		-13.00	
1697.60	Н		-13.00	
2546.40	Н		-13.00	
3395.20	Н		-13.00	
4244.00	Н		-13.00	
5092.80	Н		-13.00	
5941.60	Н		-13.00	
6790.40	Н		-13.00	
7177.00	S	-21.59	-13.00	8.59
7639.20	Н		-13.00	
8488.00	Н		-13.00	

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Page: 72 of 152

Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

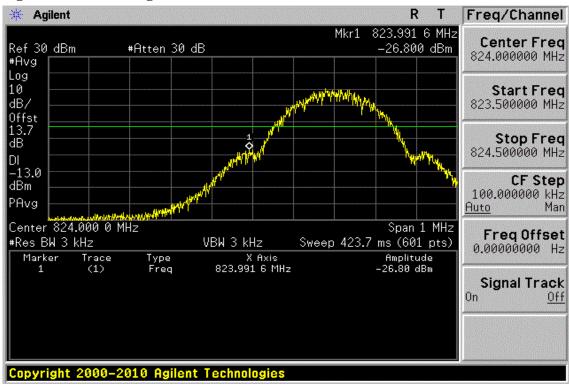
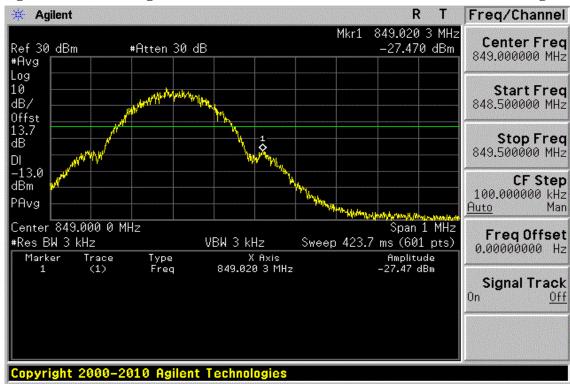


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 73 of 152

Band edge emission at antenna terminals - GPRS 850 Low & High

Engineer Test Mode **GPRS 850** :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.991	-26.80	-13.00	13.80
849.020	-27.47	-13.00	14.47

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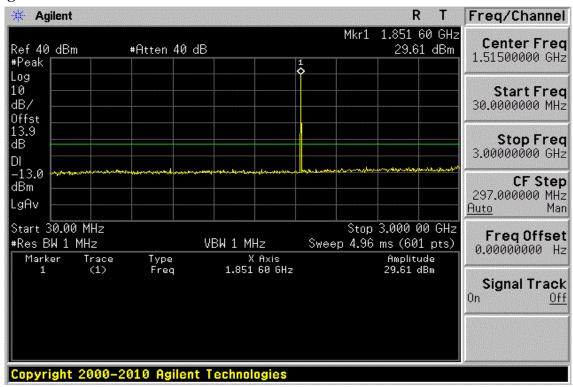
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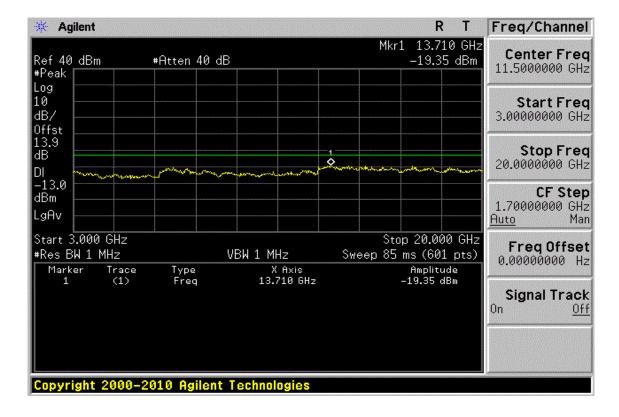


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 74 of 152

Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest





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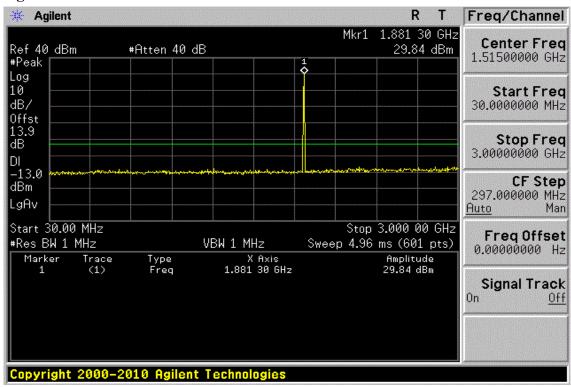
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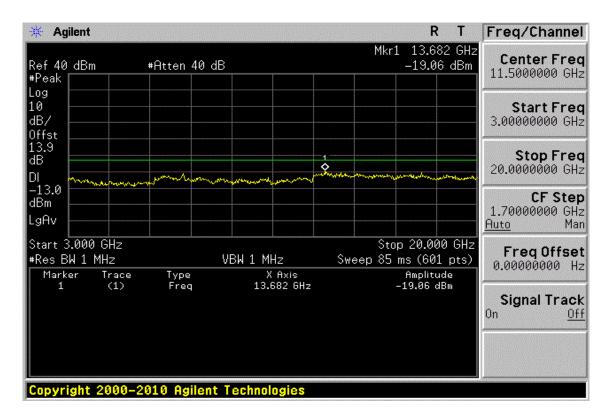
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Page: 75 of 152

Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid





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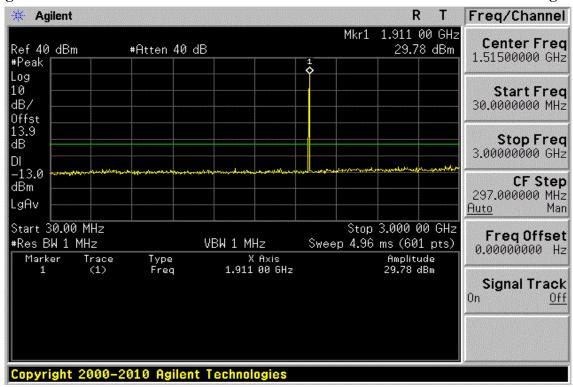
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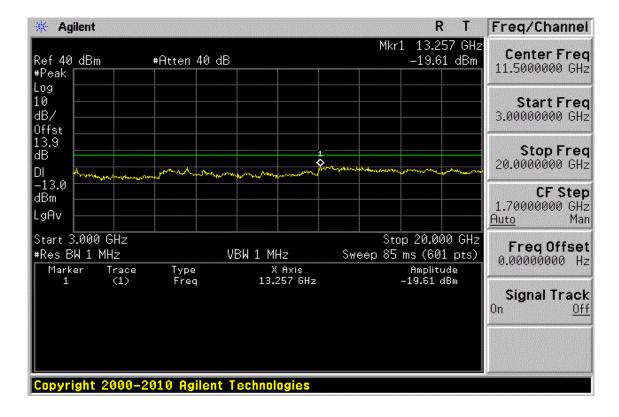
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Page: 76 of 152

Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 77 of 152

Out of Band emission at antenna terminals - GPRS 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3700.40	Н		-13.00	
5550.60	Н		-13.00	
7400.80	Н		-13.00	
9251.00	Н		-13.00	
11101.20	Н		-13.00	
12951.40	Н		-13.00	
13710.00	S	-19.35	-13.00	6.35
14801.60	Н		-13.00	
16651.80	Н		-13.00	
18502.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 78 of 152

Fundamental Frequency :1880.0 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3760.00	Н		-13.00	
5640.00	Н		-13.00	
7520.00	Н		-13.00	
9400.00	Н		-13.00	
11280.00	Н		-13.00	
13160.00	Н		-13.00	
13682.00	S	-19.06	-13.00	6.06
15040.00	Н		-13.00	
16920.00	Н		-13.00	
18800.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 79 of 152

Fundamental Frequency :1909.8 MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3819.60	Н		-13.00	
5729.40	Н		-13.00	
7639.20	Н		-13.00	
9549.00	Н		-13.00	
11458.80	Н		-13.00	
13257.00	S	-19.61	-13.00	6.61
13368.60	Н		-13.00	
15278.40	Н		-13.00	
17188.20	Н		-13.00	
19098.00	Н		-13.00	

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Page: 80 of 152

Figure 9-19: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

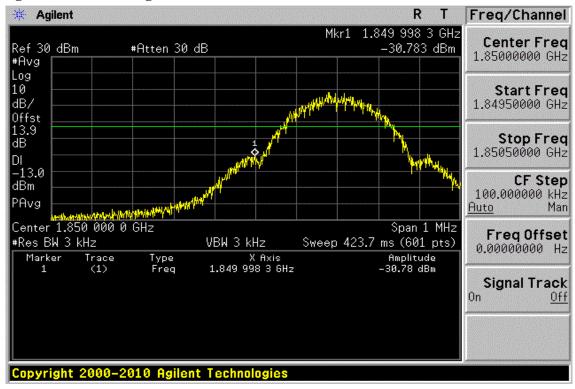
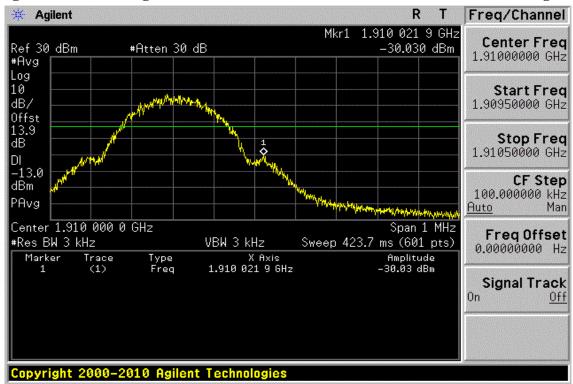


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 81 of 152

Band edge emission at antenna terminals - GPRS 1900 Low & High

Test Mode **GPRS 1900** Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.998	-30.78	-13.00	17.78
1910.021	-30.03	-13.00	17.03

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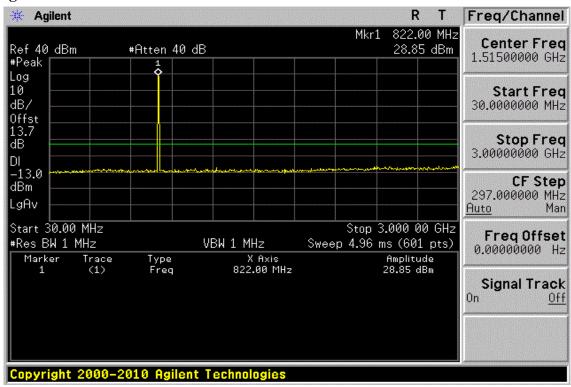
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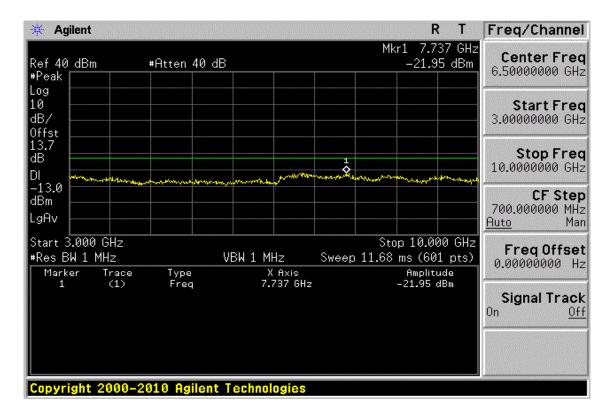


Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 82 of 152

Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest





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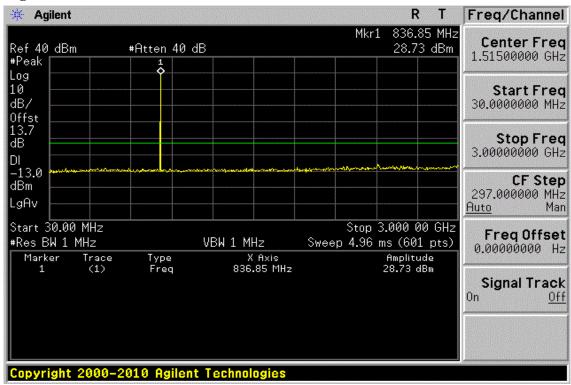
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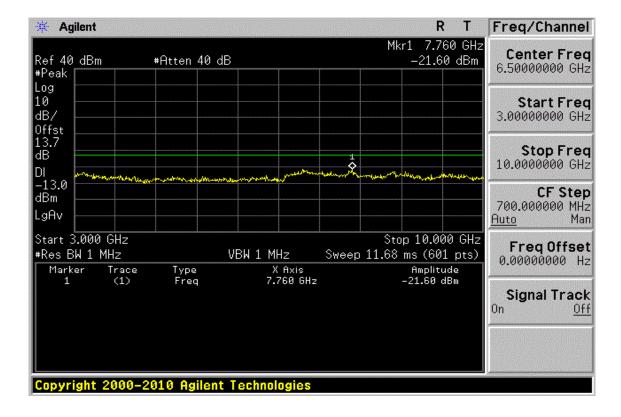


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Page: 83 of 152

Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid





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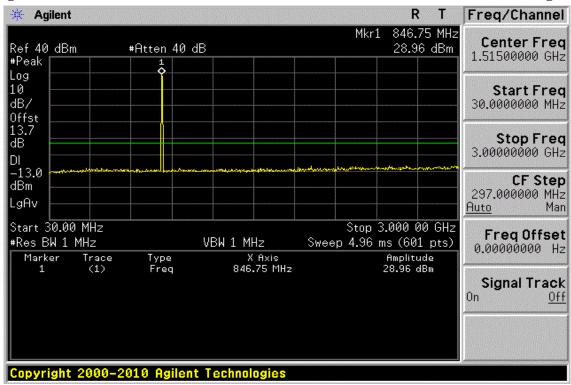
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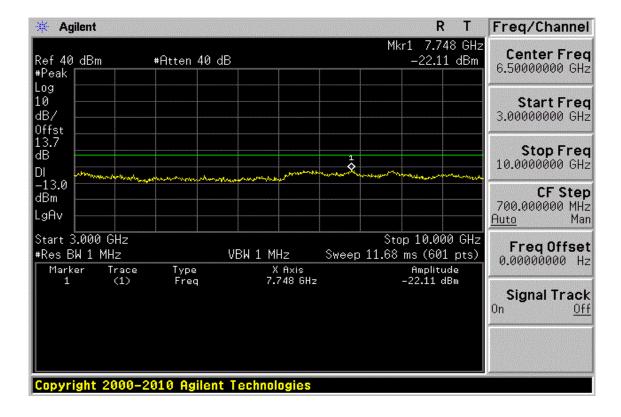
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 84 of 152

Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 85 of 152

Out of Band emission at antenna terminals – EDGE 850

Fundamental Frequency :824.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
< 30	S		-13.00	
30-1000	S		-13.00	
1648.40	Н		-13.00	
2472.60	Н		-13.00	
3296.80	Н		-13.00	
4121.00	Н		-13.00	
4945.20	Н		-13.00	
5769.40	Н		-13.00	
6593.60	Н		-13.00	
7417.80	Н		-13.00	
7737.00	S	-21.95	-13.00	8.95
8242.00	Н		-13.00	

Note: "H": denotes Harmonic Frequency. "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 86 of 152

Fundamental Frequency :836.6 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
< 30	S		-13.00	
30-1000	S		-13.00	
1673.20	Н		-13.00	
2509.80	Н		-13.00	
3346.40	Н		-13.00	
4183.00	Н		-13.00	
5019.60	Н		-13.00	
5856.20	Н		-13.00	
6692.80	Н		-13.00	
7529.40	Н		-13.00	
7760.00	S	-21.60	-13.00	8.60
8366.00	Н		-13.00	

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 87 of 152

Fundamental Frequency :848.8MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
< 30	S		-13.00	
30-1000	S		-13.00	
1697.60	Н		-13.00	
2546.40	Н		-13.00	
3395.20	Н		-13.00	
4244.00	Н		-13.00	
5092.80	Н		-13.00	
5941.60	Н		-13.00	
6790.40	Н		-13.00	
7639.20	Н		-13.00	
7748.00	S	-22.11	-13.00	9.11
8488.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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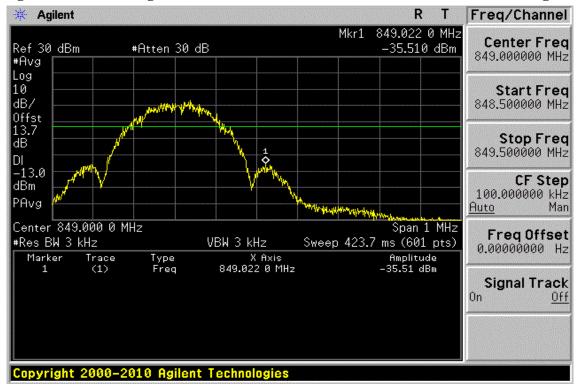
Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 88 of 152

Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 89 of 152

Band edge emission at antenna terminals - EDGE 850 Low & High

Engineer Test Mode **EDGE 850** :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.981	-35.09	-13.00	22.09
849.022	-35.51	-13.00	22.51

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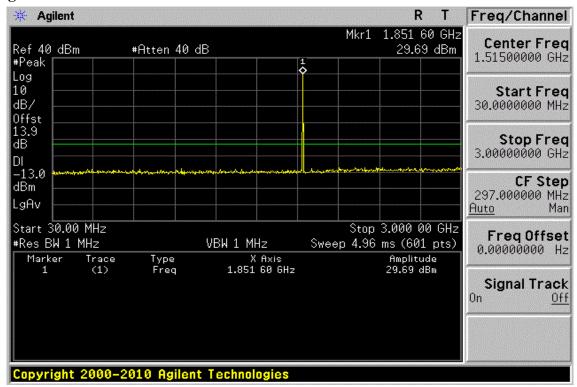
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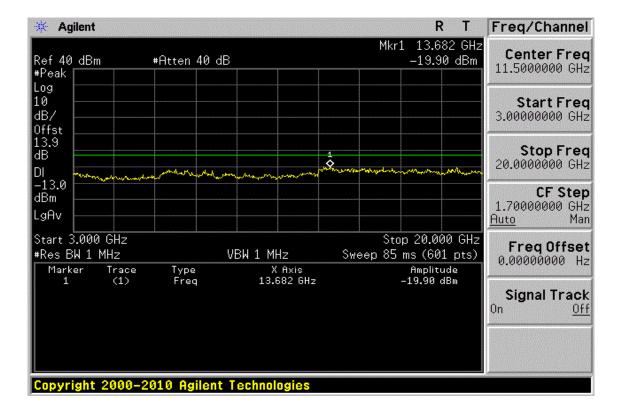
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 90 of 152

Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest





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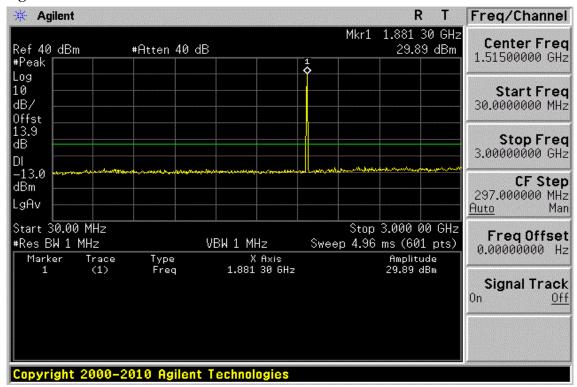
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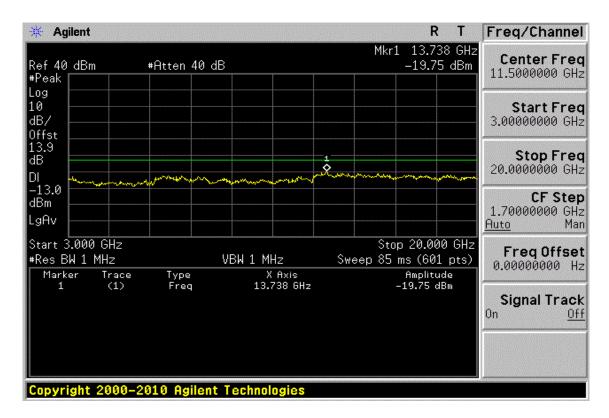
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Page: 91 of 152

Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid





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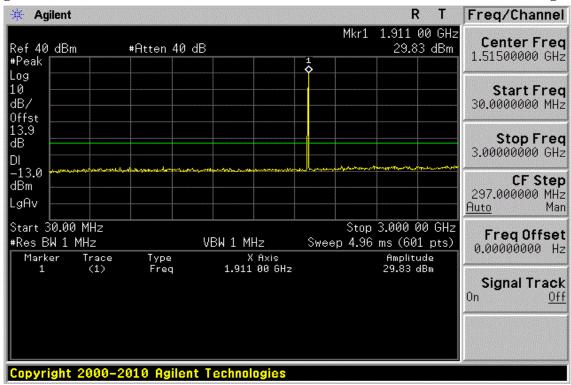
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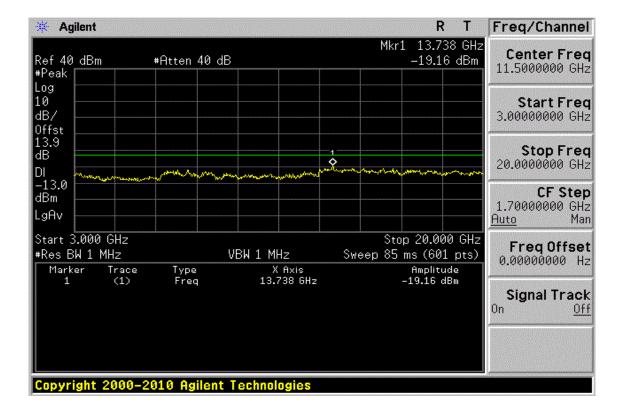
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 92 of 152

Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest





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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 93 of 152

Out of Band emission at antenna terminals - EDGE 1900

Fundamental Frequency :1850.2 MHz Engineer :Nick

Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3700.40	Н		-13.00	
5550.60	Н		-13.00	
7400.80	Н		-13.00	
9251.00	Н		-13.00	
11101.20	Н		-13.00	
12951.40	Н		-13.00	
13682.00	S	-19.90	-13.00	6.90
14801.60	Н		-13.00	
16651.80	Н		-13.00	
18502.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 94 of 152

Fundamental Frequency :1880.0 MHz Engineer :Nick

Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
< 30	S		-13.00	
30-1000	S		-13.00	
3760.00	Н		-13.00	
5640.00	Н		-13.00	
7520.00	Н		-13.00	
9400.00	Н		-13.00	
11280.00	Н		-13.00	
13160.00	Н		-13.00	
13738.00	S	-19.75	-13.00	6.75
15040.00	Н		-13.00	
16920.00	Н		-13.00	
18800.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 95 of 152

Fundamental Frequency :1909.8 MHz Engineer :Nick

Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
				_
< 30	S		-13.00	
30-1000	S		-13.00	
3819.60	Н		-13.00	
5729.40	Н		-13.00	
7639.20	Н		-13.00	
9549.00	Н		-13.00	
11458.80	Н		-13.00	
13368.60	Н		-13.00	
13738.00	S	-19.16	-13.00	6.16
15278.40	Н		-13.00	
17188.20	Н		-13.00	
19098.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note:

"---": denotes Noise Floor.

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Page: 96 of 152

Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

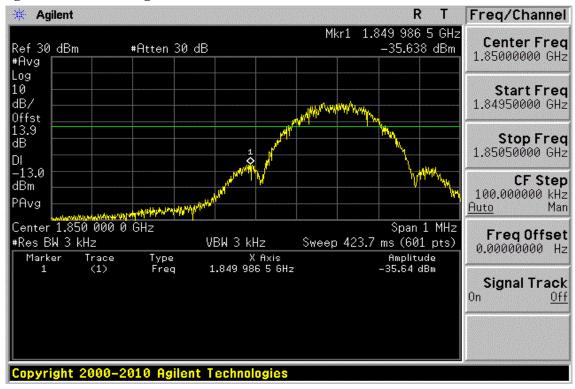
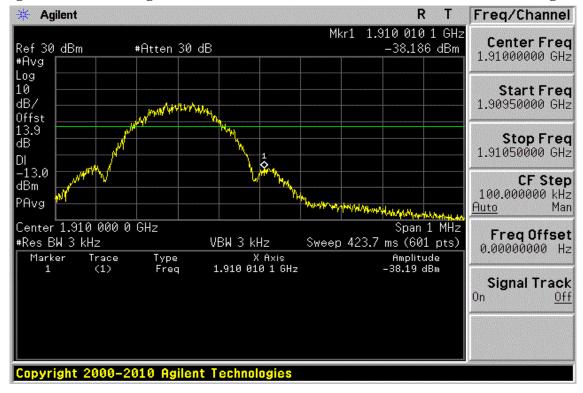


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 97 of 152

Band edge emission at antenna terminals - EDGE 1900 Low & High

Test Mode EDGE 1900: Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.986	-35.64	-13.00	22.64
1910.010	-38.19	-13.00	25.19

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 98 of 152

10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

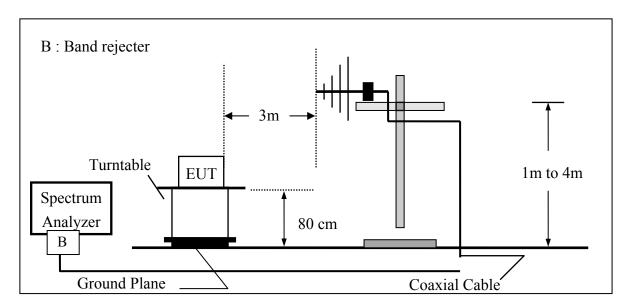
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a),§24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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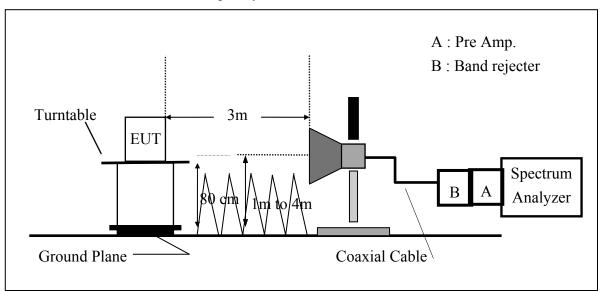
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 99 of 152

Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain(dBi) - Cable Loss (dB)

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 130

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 100 of 152

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 128 Temp./Humi.

Fundamental Frequency :824.2 MHz Engineer :Allen

Operation Mode :TX LOW

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

_			~ ~		~	.	
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
114.39	S	-78.55	-76.23	-1.20	-1.11	-13.00	-65.55
286.08	S	-82.50	-85.33	4.50	-1.67	-13.00	-69.50
600.36	S	-76.52	-78.18	4.03	-2.37	-13.00	-63.52
682.81	S	-77.18	-78.79	4.14	-2.53	-13.00	-64.18
770.11	S	-76.62	-77.60	3.68	-2.70	-13.00	-63.62
915.61	S	-74.63	-75.29	3.64	-2.98	-13.00	-61.63
1648.40	H	-50.04	-48.38	2.39	-4.05	-13.00	-37.04
2472.60	Н	-40.22	-38.33	3.14	-5.03	-13.00	-27.22
3288.00	Н						
4121.00	Н						
4945.20	Н						
5769.40	Н						
6593.60	Н						
7417.80	Н						
8242.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 101 of 152

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 128 Temp./Humi.

Fundamental Frequency :824.2 MHz Engineer :Allen Operation Mode :TX LOW

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
158.04	S	-86.80	-84.87	-0.67	-1.26	-13.00	-73.80
290.93	S	-70.92	-73.79	4.56	-1.68	-13.00	-57.92
548.95	S	-76.37	-78.69	4.58	-2.26	-13.00	-63.37
696.39	S	-78.48	-80.07	4.15	-2.55	-13.00	-65.48
777.87	S	-77.66	-78.68	3.74	-2.71	-13.00	-64.66
945.68	S	-76.12	-76.71	3.63	-3.05	-13.00	-63.12
1648.40	Н	-48.52	-47.14	2.68	-4.05	-13.00	-35.52
2472.60	Н	-47.37	-45.86	3.52	-5.03	-13.00	-34.37
3288.00	Н						
4121.00	Н						
4945.20	Н						
5769.40	Н						
6593.60	Н						
7417.80	H						
8242.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 102 of 152

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 190 Temp./Humi.

Fundamental Frequency :836.6 MHz Engineer :Allen Operation Mode

:TX MID

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
114.39	S	-78.69	-76.37	-1.20	-1.11	-13.00	-65.69
240.49	S	-82.90	-85.77	4.40	-1.53	-13.00	-69.90
371.44	S	-82.12	-84.87	4.63	-1.88	-13.00	-69.12
600.36	S	-75.86	-77.51	4.03	-2.37	-13.00	-62.86
697.36	S	-77.19	-78.78	4.15	-2.55	-13.00	-64.19
910.76	S	-73.81	-74.49	3.65	-2.96	-13.00	-60.81
1673.20	Н	-53.17	-51.42	2.33	-4.08	-13.00	-40.17
2509.80	Н	-39.77	-37.90	3.19	-5.07	-13.00	-26.77
3346.40	Н						
4183.00	Н						
5019.60	Н						
5856.20	Н						
6692.80	Н						
7529.40	Н						
8366.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 103 of 152

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 190 Temp./Humi.

Fundamental Frequency :836.6 MHz Engineer :Allen Operation Mode

:TX MID

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
1			Output Level	Gain	Loss		υ
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
141.55	S	-86.40	-83.89	-1.30	-1.21	-13.00	-73.40
229.82	S	-81.04	-84.16	4.62	-1.50	-13.00	-68.04
288.02	S	-77.29	-80.14	4.52	-1.68	-13.00	-64.29
604.24	S	-80.32	-81.97	4.04	-2.38	-13.00	-67.32
784.66	S	-76.51	-77.57	3.79	-2.73	-13.00	-63.51
949.56	S	-75.30	-75.87	3.63	-3.06	-13.00	-62.30
1673.20	Н	-52.29	-50.87	2.66	-4.08	-13.00	-39.29
2509.80	Н	-46.18	-44.67	3.56	-5.07	-13.00	-33.18
3346.40	Н						
4183.00	Н						
5019.60	Н						
5856.20	Н						
6692.80	Н						
7529.40	Н						
8366.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 104 of 152

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 215 Temp./Humi.

Fundamental Frequency :848.8 MHz Engineer :Allen Operation Mode :TX HIGH

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
114.39	S	-79.22	-76.90	-1.20	-1.11	-13.00	-66.22
286.08	S	-82.21	-85.04	4.50	-1.67	-13.00	-69.21
402.48	S	-82.01	-84.82	4.76	-1.95	-13.00	-69.01
600.36	S	-76.36	-78.02	4.03	-2.37	-13.00	-63.36
734.22	S	-77.17	-78.27	3.72	-2.62	-13.00	-64.17
924.34	S	-74.45	-75.09	3.64	-3.00	-13.00	-61.45
1697.60	Н	-54.22	-52.38	2.28	-4.12	-13.00	-41.22
2546.40	Н	-39.14	-37.33	3.30	-5.11	-13.00	-26.14
3395.20	Н						
4244.00	Н						
5092.80	Н						
5941.60	Н						
6790.40	Н						
7639.20	H						
8488.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 105 of 152

Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 215 Temp./Humi.

Fundamental Frequency :848.8 MHz Engineer :Allen Operation Mode :TX HIGH

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
167.74	S	-84.80	-84.04	0.54	-1.30	-13.00	-71.80
374.35	S	-83.09	-85.82	4.61	-1.89	-13.00	-70.09
502.39	S	-81.85	-84.40	4.71	-2.17	-13.00	-68.85
569.32	S	-74.07	-76.13	4.36	-2.30	-13.00	-61.07
709.97	S	-78.65	-80.10	4.02	-2.57	-13.00	-65.65
942.77	S	-75.83	-76.42	3.63	-3.04	-13.00	-62.83
1697.60	Н	-53.64	-52.17	2.65	-4.12	-13.00	-40.64
2546.40	Н	-47.12	-45.67	3.65	-5.11	-13.00	-34.12
3395.20	Н						
4244.00	Н						
5092.80	Н						
5941.60	Н						
6790.40	Н						
7639.20	Н						
8488.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 106 of 152

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :CH 512 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :1850.2 MHz Engineer :Allen

Operation Mode :TX LOW

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
114.39	S	-76.60	-76.43	0.95	-1.11	-13.00	-63.60
226.91	S	-77.22	-82.57	6.84	-1.49	-13.00	-64.22
342.34	S	-78.99	-84.06	6.89	-1.81	-13.00	-65.99
431.58	S	-76.61	-81.29	6.70	-2.01	-13.00	-63.61
600.36	S	-70.83	-74.63	6.18	-2.37	-13.00	-57.83
871.96	S	-72.35	-75.48	6.01	-2.88	-13.00	-59.35
3700.40	Н	-51.09	-52.27	7.40	-6.23	-13.00	-38.09
5550.60	Н	-44.04	-45.23	8.99	-7.80	-13.00	-31.04
7400.80	Н						
9251.00	Н						
11101.20	Н						
12951.40	Н						
14801.60	Н						
16651.80	Н						
18502.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note: "F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 107 of 152

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 512 Temp./Humi.

Fundamental Frequency :1850.2 MHz Engineer :Allen Operation Mode :TX LOW

EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
139.61	S	-84.22	-83.85	0.83	-1.21	-13.00	-71.22
418.97	S	-81.03	-85.83	6.78	-1.99	-13.00	-68.03
557.68	S	-79.13	-83.49	6.64	-2.28	-13.00	-66.13
727.43	S	-75.76	-79.11	5.95	-2.61	-13.00	-62.76
870.99	S	-73.54	-76.68	6.02	-2.88	-13.00	-60.54
3700.40	S	-52.17	-52.86	6.91	-6.23	-13.00	-39.17
5550.60	Н	-47.37	-47.85	8.27	-7.80	-13.00	-34.37
7400.80	Н						
9251.00	Н						
11101.20	Н						
12951.40	Н						
14801.60	Н						
16651.80	Н						
18502.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 108 of 152

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 661 Temp./Humi.

Fundamental Frequency :1880.0 MHz Engineer :Allen Operation Mode

:TX MID

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
99.84	S	-77.02	-77.13	1.16	-1.05	-13.00	-64.02
114.39	S	-77.01	-76.84	0.95	-1.11	-13.00	-64.01
528.58	S	-76.57	-81.14	6.79	-2.22	-13.00	-63.57
600.36	S	-75.62	-79.43	6.18	-2.37	-13.00	-62.62
797.27	S	-74.30	-77.58	6.03	-2.75	-13.00	-61.30
917.55	S	-72.77	-75.58	5.79	-2.98	-13.00	-59.77
3760.00	Н	-51.10	-52.20	7.42	-6.32	-13.00	-38.10
5640.00	Н	-45.82	-46.95	9.01	-7.89	-13.00	-32.82
7520.00	Н						
9400.00	Н						
11280.00	Н						
13160.00	Н						
15040.00	Н						
16920.00	Н						
18800.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 109 of 152

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 661 Temp./Humi.

Fundamental Frequency :1880.0 MHz Engineer :Allen Operation Mode :TX MID

EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
140.58	S	-84.20	-83.81	0.82	-1.21	-13.00	-71.20
373.38	S	-81.04	-85.93	6.77	-1.88	-13.00	-68.04
602.30	S	-79.23	-83.04	6.18	-2.38	-13.00	-66.23
769.14	S	-75.67	-78.80	5.82	-2.70	-13.00	-62.67
871.96	S	-73.31	-76.44	6.01	-2.88	-13.00	-60.31
994.18	S	-72.53	-75.54	6.11	-3.10	-13.00	-59.53
3760.00	Н	-53.72	-54.24	6.85	-6.32	-13.00	-40.72
5640.00	Н	-45.86	-46.27	8.30	-7.89	-13.00	-32.86
7520.00	Н						
9400.00	Н						
11280.00	Н						
13160.00	Н						
15040.00	Н						
16920.00	Н						
18800.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 110 of 152

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 810 Temp./Humi.

Fundamental Frequency :1909.8 MHz Engineer :Allen Operation Mode :TX HIGH

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
114.39	S	-76.66	-76.49	0.95	-1.11	-13.00	-63.66
425.76	S	-79.64	-84.37	6.73	-2.00	-13.00	-66.64
600.36	S	-74.80	-78.60	6.18	-2.37	-13.00	-61.80
727.43	S	-75.08	-78.42	5.95	-2.61	-13.00	-62.08
870.99	S	-72.23	-75.38	6.02	-2.88	-13.00	-59.23
940.83	S	-70.95	-73.69	5.78	-3.04	-13.00	-57.95
3819.60	Н	-50.61	-51.73	7.51	-6.39	-13.00	-37.61
5729.40	Н	-47.94	-49.05	9.03	-7.92	-13.00	-34.94
7639.20	Н						
9549.00	Н						
11458.80	Н						
13368.60	Н						
15278.40	Н						
17188.20	Н						
19098.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 111 of 152

Operation Band :GSM 1900 **Test Date** :2013-05-03

ARFCN :24.1deg C / 68 RH :CH 810 Temp./Humi.

Fundamental Frequency :1909.8 MHz Engineer :Allen Operation Mode :TX HIGH

EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
139.61	S	-83.87	-83.49	0.83	-1.21	-13.00	-70.87
383.08	S	-80.73	-85.65	6.82	-1.90	-13.00	-67.73
520.82	S	-79.19	-83.79	6.81	-2.20	-13.00	-66.19
718.70	S	-77.19	-80.66	6.06	-2.59	-13.00	-64.19
870.99	S	-74.25	-77.39	6.02	-2.88	-13.00	-61.25
949.56	S	-73.72	-76.44	5.78	-3.06	-13.00	-60.72
3819.60	Н	-51.10	-51.76	7.05	-6.39	-13.00	-38.10
5729.40	Н	-44.71	-45.11	8.32	-7.92	-13.00	-31.71
7639.20	Н						
9549.00	Н						
11458.80	Н						
13368.60	Н						
15278.40	Н						
17188.20	Н						
19098.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 112 of 152

11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

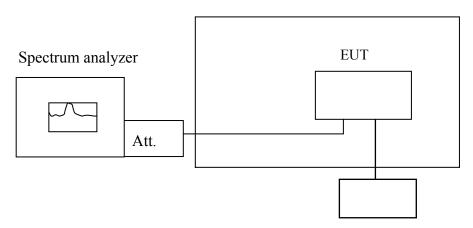
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

11.2. Test Set-up:

Temperature Chamber



Variable DC Power Supply

Measurement setup for testing on Antenna connector

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 113 of 152

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 114 of 152

11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz								
Limit: +/- 2.5 ppm = 2091 Hz								
Power Supply	Environment	Frequency	Frequency					
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
3.7	-30	836.600008	3.00	2091				
3.7	-20	836.600007	2.00	2091				
3.7	-10	836.600006	1.00	2091				
3.7	0	836.600005	0.00	2091				
3.7	10	836.600003	-2.00	2091				
3.7	20	836.600005	0.00	2091				
3.7	30	836.600008	3.00	2091				
3.7	40	836.600007	2.00	2091				
3.7	50	836.600006	1.00	2091				

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz								
Limit: +/- 2.5 ppm = 4700 Hz								
Power Supply	Environment	Frequency						
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
3.7	-30	1880.000003	-2.00	4700				
3.7	-20	1879.999994	-11.00	4700				
3.7	-10	1880.000004	-1.00	4700				
3.7	0	1879.999997	-8.00	4700				
3.7	10	1879.999989	-16.00	4700				
3.7	20	1880.000005	0.00	4700				
3.7	30	1879.999992	-13.00	4700				
3.7	40	1880.000007	2.00	4700				
3.7	50	1879.999994	-11.00	4700				

Note: The battery is rated 3.7V dc.

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 115 of 152

12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 20 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 116 of 152

12.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz							
Limit: +/- 2.5 ppm = 2091 Hz							
Power Supply Environment Frequency Delta (II-)							
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
4.20	20	836.600002	-5.00	2091			
3.70	20	836.600007	0.00	2091			
3.45	20	836.600006	-1.00	2091			
2.90	20	027 (00004	2.00	2001			
(End point)	20	836.600004	-3.00	2091			

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz								
Limit: +/- 2.5 ppm = 4700 Hz								
Power Supply Environment Frequency Delta (Hz) Limit (Hz)								
Vdc	Temperature ()	perature () (MHz)		Limit (Hz)				
4.20	20	1880.000011	7.00	2091				
3.70	20	1880.000004	0.00	2091				
3.45	20	1879.999998	-6.00	2091				
2.90	20	1000 00000	2.00	2001				
(End point)	20	1880.000006	2.00	2091				

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 117 of 152

13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB

13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly: Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 118 of 152

13.5.1 Tabular Results:

		Peak-to-Average Ratio					
	Channe	l 128(L)	Channel 190(M)		Channel 251(H)		
TEST	824.2MHz		836.6MHz		848.8MHz		
CONDITIONS	dB		dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
GSM 850	9.79	13	11.79	13	11.36	13	
GPRS 850	10.93	13	10.78	13	11.37	13	
EDGE 850	10.90	13	10.39	13	10.04	13	

	Peak-to-Average Ratio					
	Channe	l 512(L)	Channel 661(M)		Channel 810(H)	
TEST	1850,2MHz		1880.0MHz		1909.8MHz	
CONDITIONS	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 1900	10.75	13	11.37	13	11.47	13
GPRS 1900	11.50	13	10.46	13	10.89	13
EDGE 1900	12.78	13	12.49	13	12.21	13

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 119 of 152

13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low



Figure 13-2: GSM 850 Channel Mid



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 120 of 152

Figure 13-3: GSM 850 Channel High



Figure 13-4: GSM 1900 Channel Low



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 121 of 152

Figure 13-5: GSM 1900 Channel Mid



Figure 13-6: GSM 1900 Channel High



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 122 of 152

Figure 13-7: GPRS 850 Channel Low



Figure 13-8: GPRS 850 Channel Mid



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 123 of 152

Figure 13-9: GPRS 850 Channel High



Figure 13-10: GPRS 1900 Channel Low



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 124 of 152

Figure 13-11 GPRS 1900 Channel Mid



Figure 13-12: GPRS 1900 Channel High



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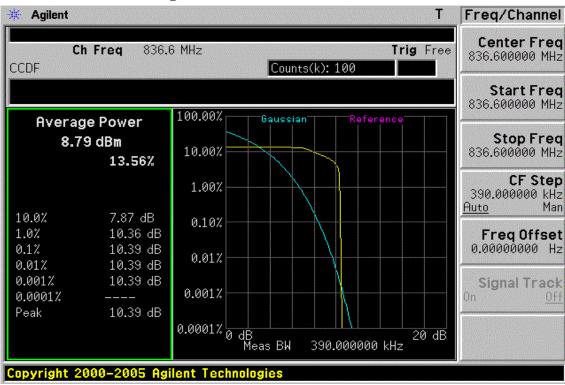
Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 125 of 152

Figure 13-13: EDGE 850 Channel Low



Figure 13-14 EDGE 850 Channel Mid



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 126 of 152

Figure 13-15: EDGE 850 Channel High



Figure 13-16: EDGE 1900 Channel Low



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 127 of 152

Figure 13-17 EDGE 1900 Channel Mid



Figure 13-18: EDGE 1900 Channel High



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 128 of 152

APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS **EMISSION**

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 129 of 152

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

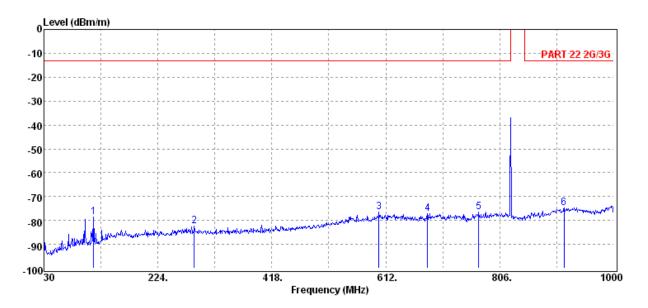
Operation Band :GPRS 850 Test Date :2013-05-03

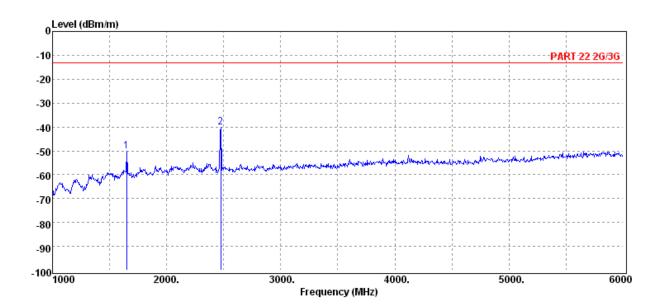
ARFCN :24.1deg C / 68 RH :CH 128 Temp./Humi.

Fundamental Frequency :824.2 MHz Engineer :Allen

Operation Mode :TX LOW

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL





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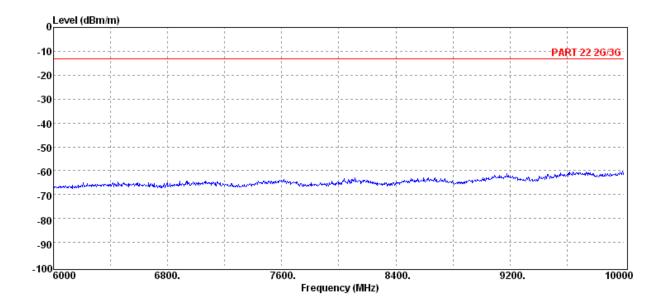
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 130 of 152



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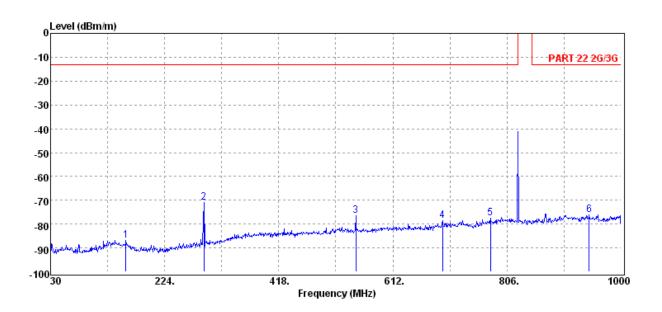
Page: 131 of 152

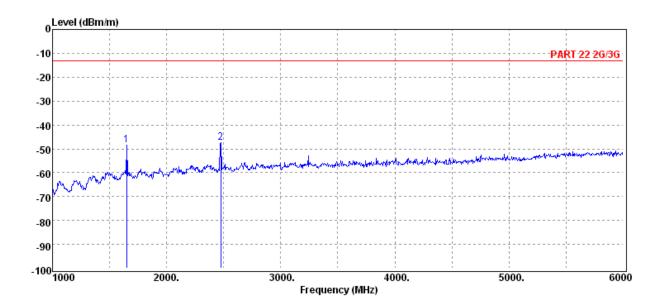
Operation Band :GPRS 850 **Test Date** :2013-05-03

ARFCN Temp./Humi. :24.1deg_C / 68 RH :CH 128

Fundamental Frequency: 824.2 MHz Engineer :Allen Operation Mode :TX LOW

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL





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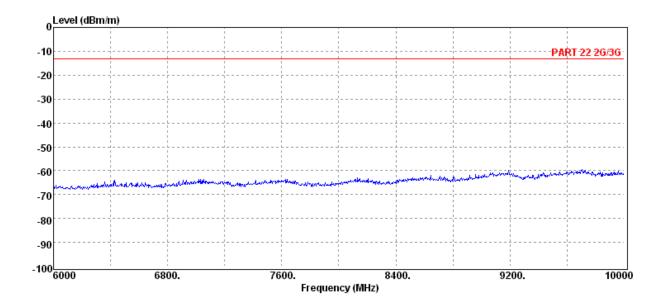
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 132 of 152



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Operation Mode

FCC ID: PY7PM-0490

Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 133 of 152

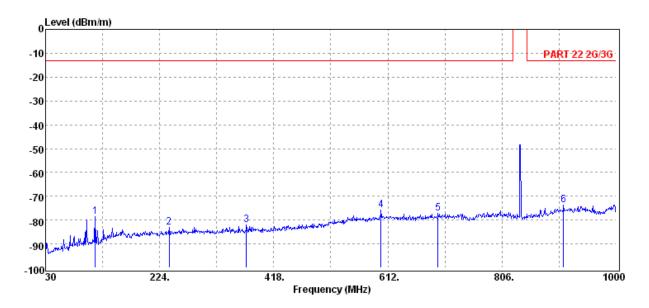
Operation Band :GPRS 850 Test Date :2013-05-03

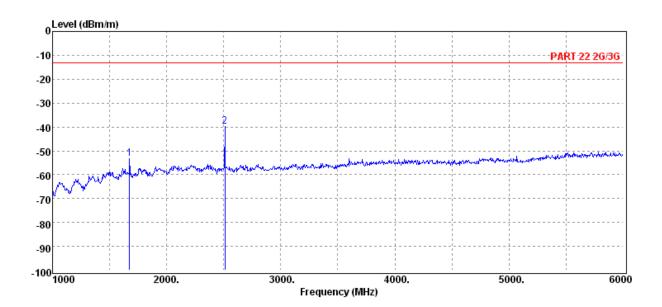
ARFCN :CH 190 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :836.6 MHz Engineer :Allen

:TX MID

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL





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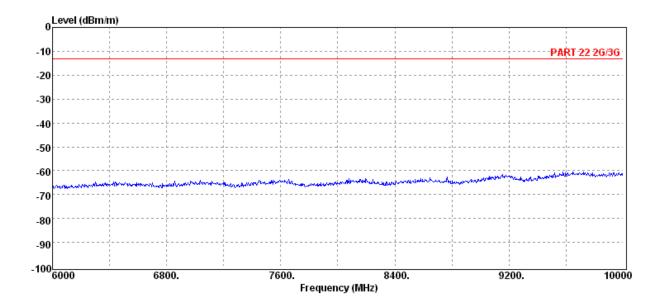
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 134 of 152



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Operation Mode

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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 135 of 152

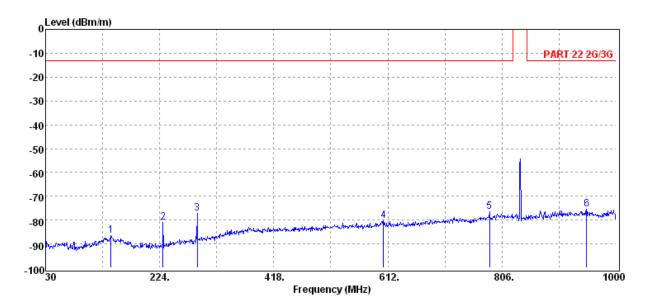
Operation Band :GPRS 850 **Test Date** :2013-05-03

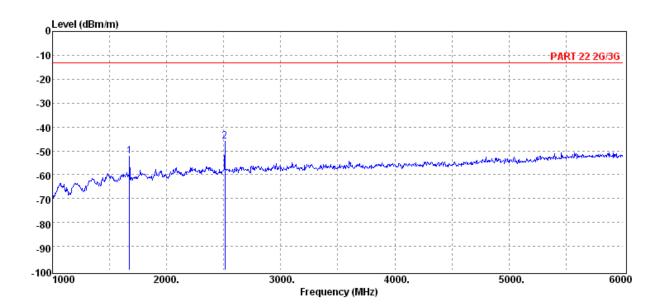
ARFCN Temp./Humi. :24.1deg C / 68 RH :CH 190

Fundamental Frequency :836.6 MHz Engineer :Allen

:TX MID

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL





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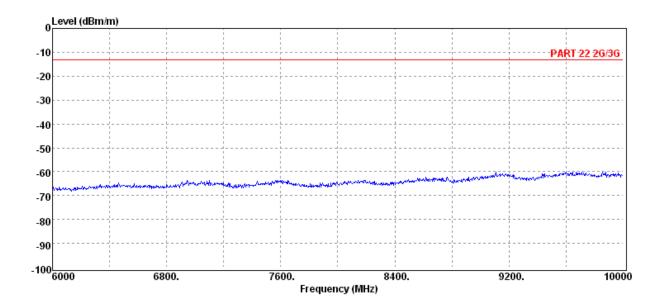
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 136 of 152



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 137 of 152

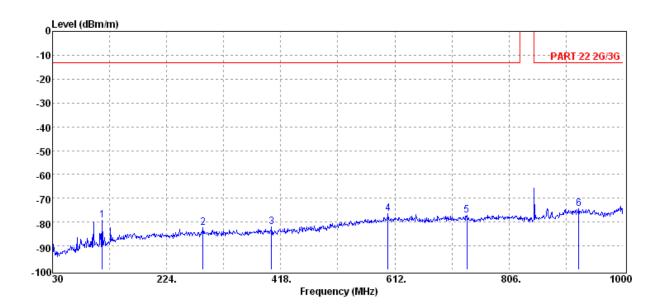
Operation Band :GPRS 850 Test Date :2013-05-03

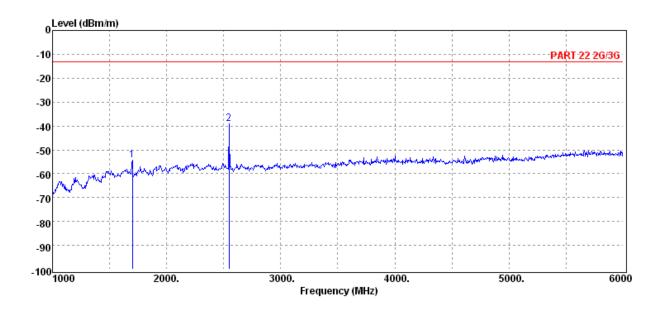
ARFCN :CH 215 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :848.8 MHz Engineer :Allen

Operation Mode :TX HIGH

EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL





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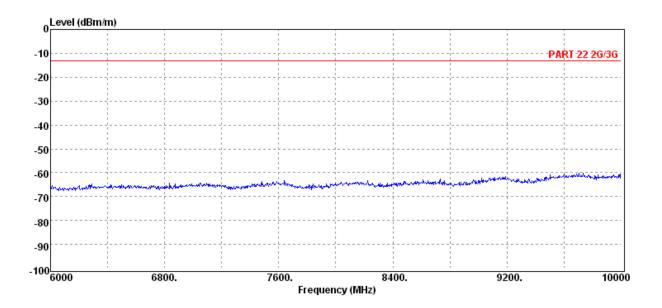
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 138 of 152



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 139 of 152

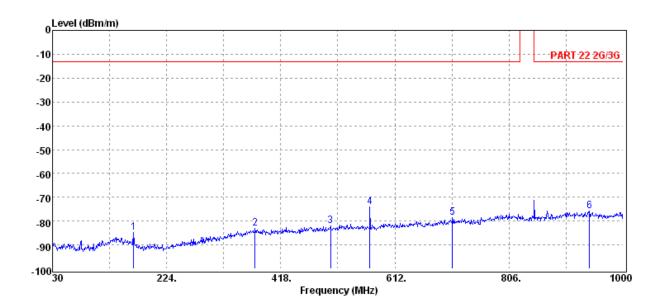
Operation Band :GPRS 850 **Test Date** :2013-05-03

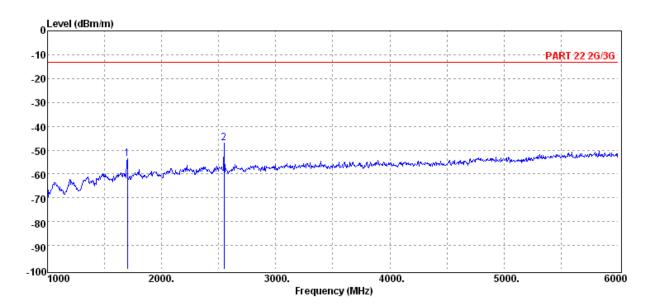
ARFCN Temp./Humi. :24.1deg C / 68 RH :CH 215

Fundamental Frequency :848.8 MHz Engineer :Allen

:TX HIGH

EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL





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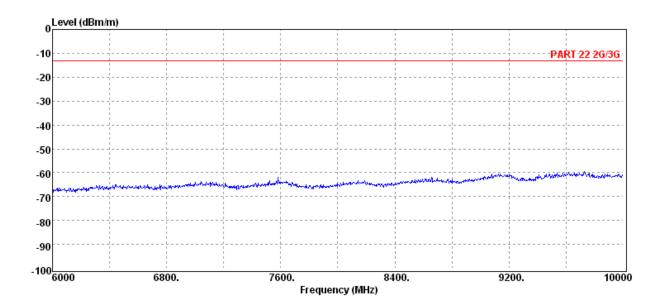
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 140 of 152



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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 141 of 152

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

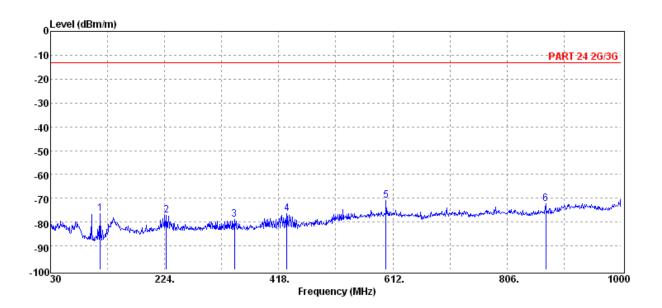
Operation Band :GSM 1900 Test Date :2013-05-03

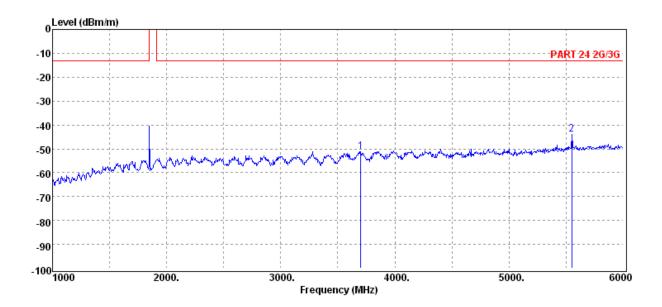
ARFCN :CH 512 Temp./Humi. :24.1deg_C / 68 RH

Fundamental Frequency :1850.2 MHz Engineer :Allen

Operation Mode :TX LOW

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL





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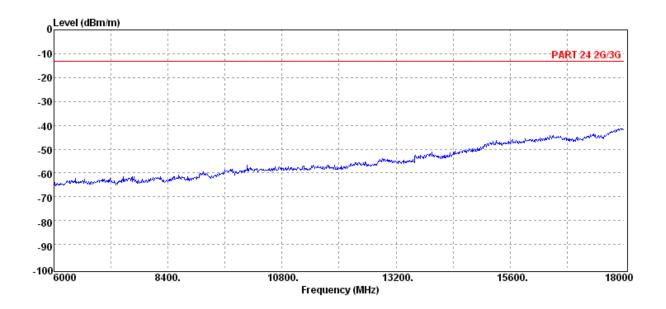
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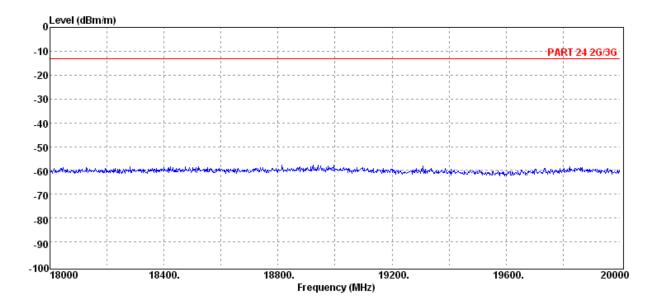
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 142 of 152





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SCSC Tainwan Ltd.

INDIA 134 MW/WindPoad NewTainsignight Wild District NewTainsignight Tainwan 24803 feet.

Test Tainwan Ltd.

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**INDIA 134 MW/WindPoad NewTainsignight Mykunibitrict NewTainsigni



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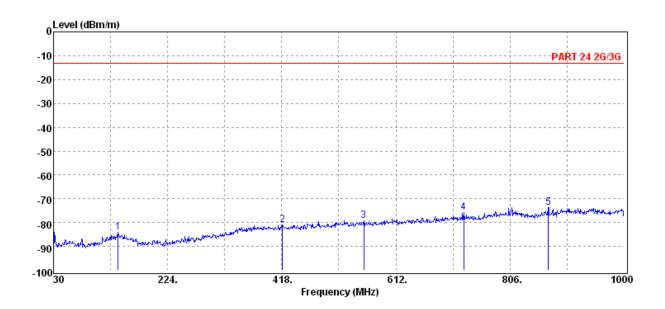
Page: 143 of 152

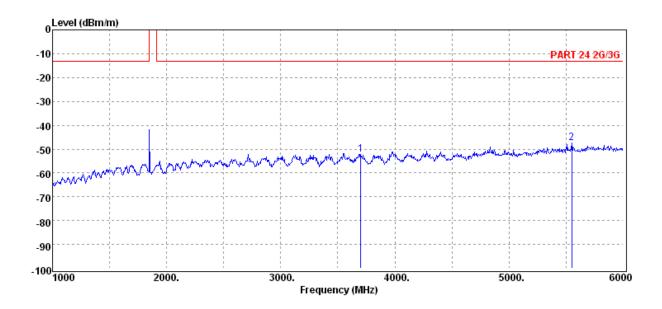
Operation Band :GSM 1900 Test Date :2013-05-03

ARFCN :CH 512 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :1850.2 MHz Engineer :Allen Operation Mode :TX LOW

EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL





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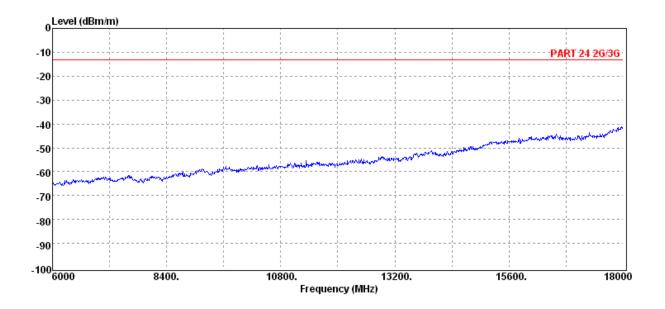
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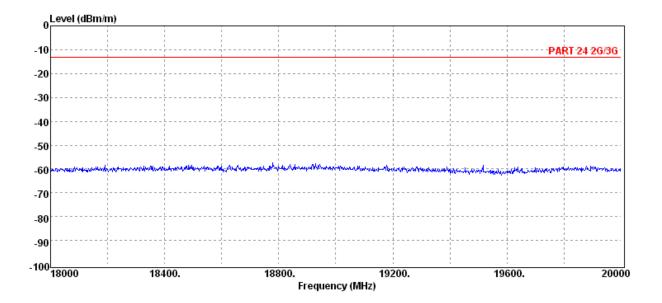
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 144 of 152





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Test Tainwan Ltd.

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Test Tainwan Ltd.

**INDIA 134 MW/WindPoad NewTainsignight Mykunibitrict NewTainsigni



Operation Mode

FCC ID: PY7PM-0490

Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 145 of 152

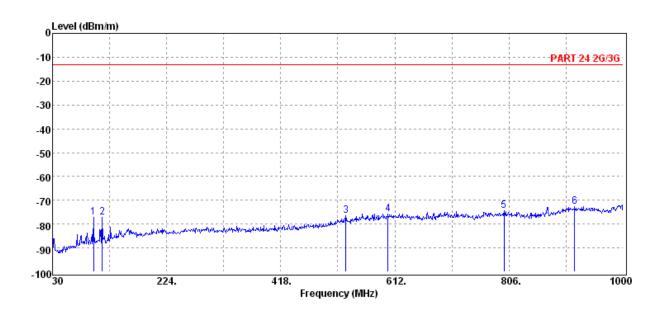
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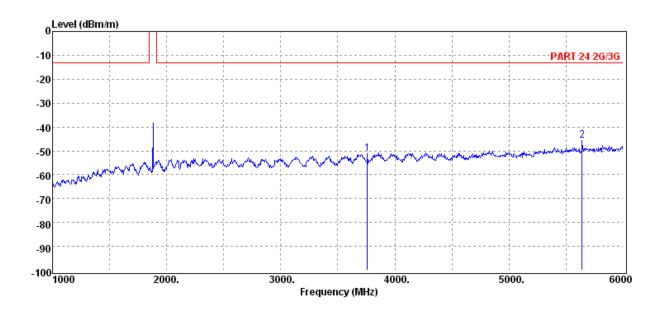
ARFCN :CH 661 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :1880.0 MHz Engineer :Allen

:TX MID

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL





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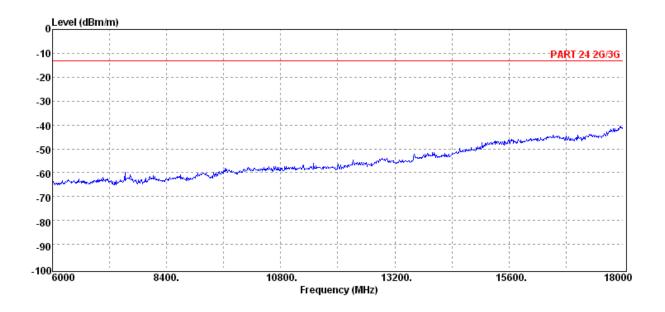
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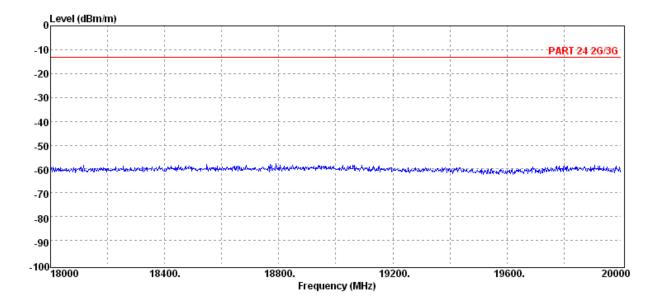
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 146 of 152





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Test Tainwan Ltd.

**INDIA 134 MW/WindPoad NewTainsignight Mykunibitrict NewTainsigni



Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 147 of 152

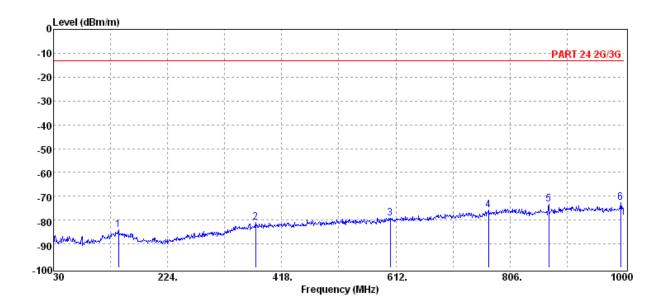
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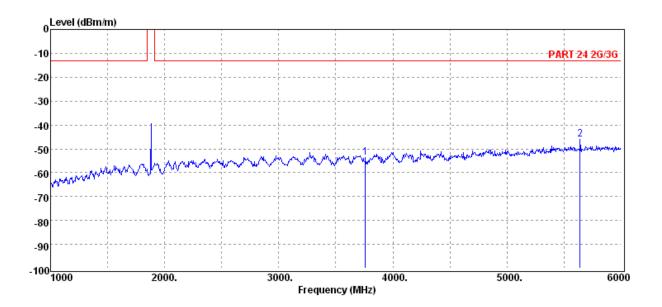
ARFCN Temp./Humi. :24.1deg C / 68 RH :CH 661

Fundamental Frequency :1880.0 MHz Engineer :Allen

Operation Mode :TX MID

EUT Pol. :E1 Plan :HORIZONTAL Measurement Antenna Pol.





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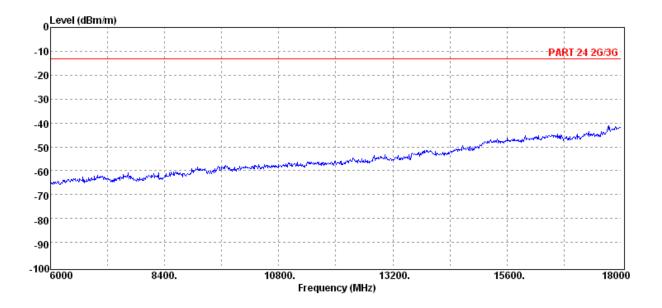
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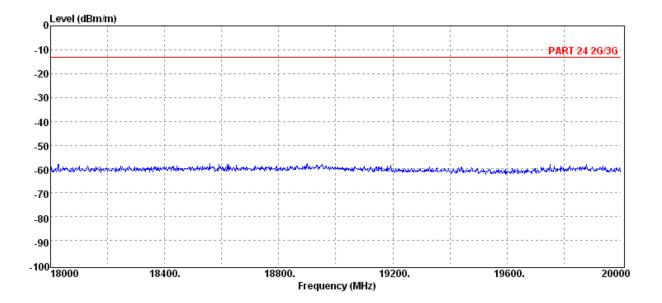
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 148 of 152





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Test Tainwan Ltd.

**INDIA 134 MW/WindPoad NewTainsignight Mykunibitrict NewTainsigni



Operation Mode

FCC ID: PY7PM-0490

Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 149 of 152

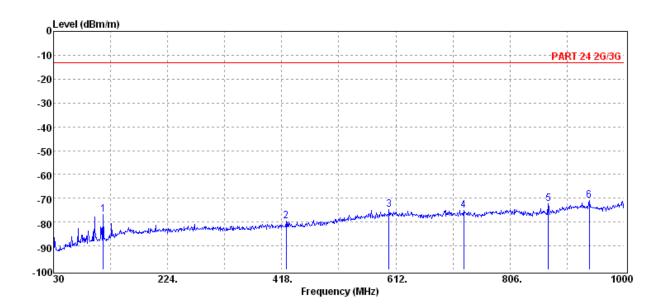
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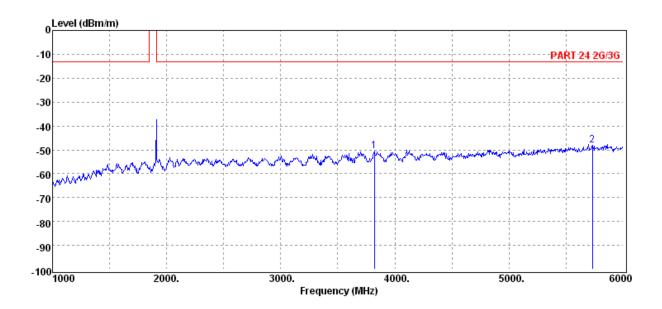
ARFCN :CH 810 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :1909.8 MHz Engineer :Allen

:TX HIGH

EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL





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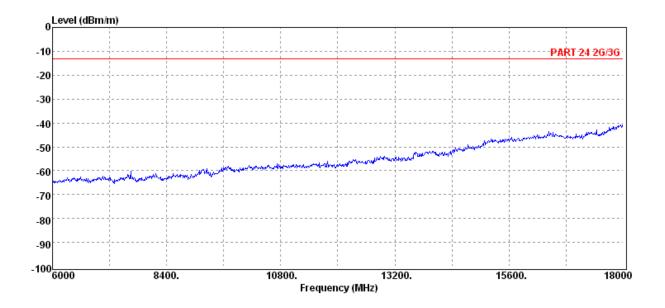
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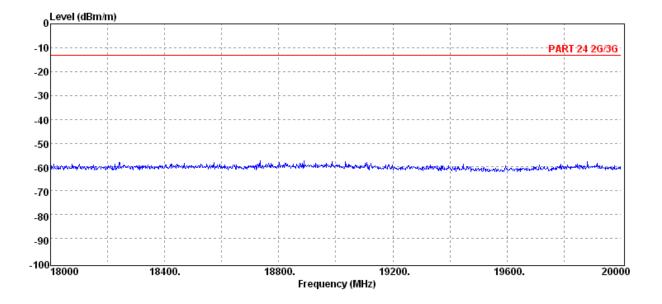
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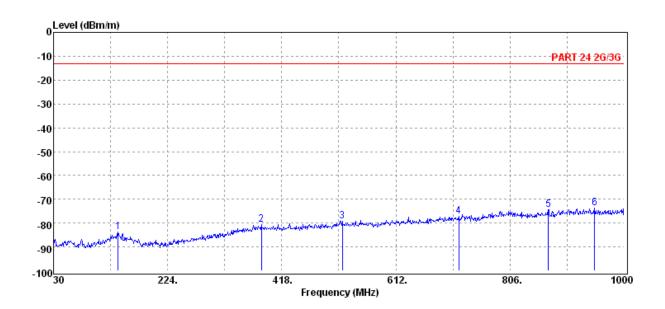
Page: 151 of 152

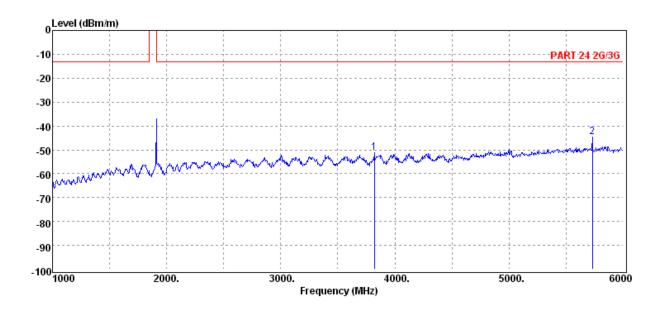
Operation Band :GSM 1900 Test Date :2013-05-03

ARFCN :CH 810 Temp./Humi. :24.1deg C / 68 RH

Fundamental Frequency :1909.8 MHz Engineer :Allen

Operation Mode :TX HIGH
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL





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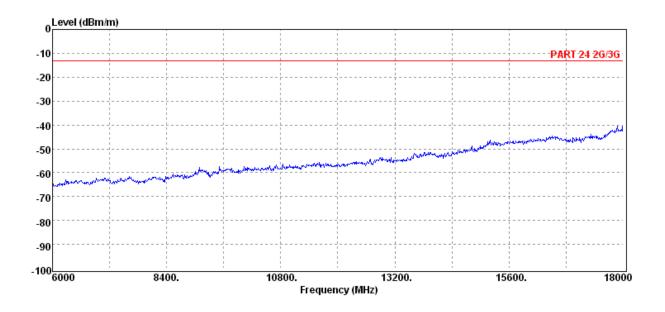
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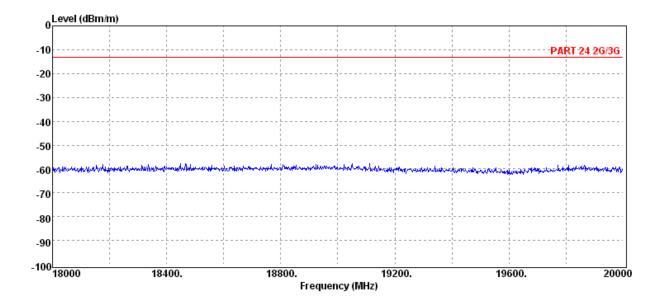
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Report No.: EH/2013/40024 Issue Date: Jun. 06, 2013

Page: 152 of 152





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**INDIA 134 MW/WindPoad NewTainsignight Mykunibitrict NewTainsigni

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