

FCC/IC RF Test Report

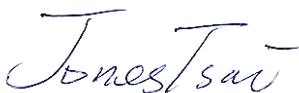
APPLICANT : Sony Mobile Communications AB
EQUIPMENT : Smart phone
BRAND NAME : SONY
TYPE NAME : PM-0771-BV
FCC ID : PY7PM-0771
IC : 4170B-PM0771
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
IC RSS-132 issue 3, RSS-133 issue 6, and RSS-139 issue 2
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 02, 2014 and testing was completed on Apr. 18, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : PY7PM-0771

IC: 4170B-PM0771

Page Number : 1 of 176

Report Issued Date : Jun. 09, 2014

Report Version : Rev. 01



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG440284A	Rev. 01	Initial issue of report	Jun. 09, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d) §27.50(d)(5)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.4)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	§2.1049 §22.917(b) §24.238(b) §27.53(g)	RSS-GEN(4.6.1) RSS-133(6.5) RSS-139 (6.5)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(g)	RSS-GEN(4.9) RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(g)	RSS-GEN(4.9) RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(g)	RSS-GEN(4.9) RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.5)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 17.74 dB at 6848.000 MHz



Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.8	§2.1055 §22.355 §24.235 §27.54	RSS-GEN(4.7) RSS-132 (5.3) RSS-133 (6.3) RSS-139 (6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

Sony Mobile Communications AB
Nya Vattentorget, 22188 Lund, Sweden

1.2 Manufacturer

Compal Communications, INC.
No. 385, Yangguang Street, Neihu, Taipei 11491, Taiwan

1.3 Product Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is Smart phone supporting, GSM / WCDMA / LTE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, Bluetooth with FM Receiver, ANT+, NFC, and GPS features, and below is details of information.

Product Feature	
Equipment	Smart phone
Brand Name	SONY
Type Name	PM-0771-BV
FCC ID	PY7PM-0771
IC	4170B-PM0771
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33, EGPRS Class 33
WCDMA Operating Band(s)	FDD Band I / II / IV / V
WCDMA Rel. Version	Rel. 8
LTE Operating Band(s)	FDD Band II / IV / VII / XVII
LTE Rel. Version	Rel. 10
Wi-Fi Specification	802.11b/g/n (HT20), 802.11a/n (HT20/HT40)
Bluetooth Version	Bluetooth v4.0 EDR/LE
NFC Specification	ISO14443A / ISO14443B / Felica
ANT+	ANT+
Power Supply	Battery / AC Adapter / Car Charger
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification subjective to this Test Standard

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz
Maximum Output Power to Antenna	GSM850 : 33.12 dBm GSM1900 : 30.22 dBm WCDMA Band V : 23.48 dBm WCDMA Band IV : 23.53 dBm WCDMA Band II : 23.81 dBm
Antenna Type	PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)
HW Version	A
SW Version	18.3.C.0.8
EUT Stage	Production Unit

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI : 004402452473907	A	18.3.C.0.8	ZH8002JUQQ	RF conducted measurement
IMEI : 004402452474822			ZH80037V1J	Radiated Spurious Emission, ERP/EIRP test

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-0002016-US B
	S/N : 1112W28 321732
Battery	Model No. : LIS1551ERPC
	Type No. : F-4993-128-0
Earphone	Model No. : MH410c
	Type No. : AG-1100
	S/N: 12481A1600364E0
USB Cable	Model No. : AHAB EC450
	Part No. : AI-0700
	S/N: 132512D44063718A

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.90	0.0227 ppm	246KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.16	0.0395 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.11	0.0096 ppm	4M20F9W
Part 24	GSM1900 GPRS class 8	GMSK	1.57	0.0309 ppm	252KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.42	0.0436 ppm	246KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.27	0.0064 ppm	4M16F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.20	0.0092 ppm	4M18F9W

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		IC Registration No.
	TH02-HY	03CH07-HY	4086B-1

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 2
- IC RSS-Gen Issue 3
- NOTICE 2012-DRS0126

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

- a. Preliminary tests were performed in different radio applications and recorded the RF output power in the following table:

Conducted Power		Burst Average Power (dBm)					
Band		GSM850			GSM1900		
Channel		128	189	251	512	661	810
Frequency (MHz)		824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM		33.02	32.99	33.12	30.21	29.94	29.58
GPRS Class 8		32.93	33.03	33.06	30.22	29.98	29.61
GPRS Class 10		29.80	29.90	30.00	27.26	26.96	26.53
GPRS Class 11		27.79	27.93	28.07	25.24	24.87	24.83
GPRS Class 33		26.94	26.99	27.04	24.19	24.03	23.89
EGPRS Class 8		26.28	26.34	26.37	25.76	25.15	24.81
EGPRS Class 10		25.49	25.62	25.75	25.54	25.05	24.75
EGPRS Class 11		25.40	25.43	25.43	25.19	24.70	24.28
EGPRS Class 33		25.26	25.26	25.28	24.97	24.56	24.25
DTM 5	GSM (GMSK, 1 Tx slot)	29.97	30.04	30.13	27.17	26.74	26.27
	GPRS (GMSK, 1 Tx slot)	29.87	29.98	30.02	27.21	26.83	26.40
DTM 9	GSM (GMSK, 1 Tx slot)	29.72	29.85	29.95	27.12	26.60	26.18
	GPRS (GMSK, 1 Tx slot)	29.64	29.82	29.83	27.23	26.63	26.25
DTM 11	GSM (GMSK, 1 Tx slot)	27.74	28.06	28.13	25.19	24.56	24.43
	GPRS (GMSK, 2 Tx slots)	27.70	28.02	28.05	25.16	24.71	24.52
DTM 5	GSM (GMSK, 1 Tx slot)	29.63	29.93	30.01	27.16	26.52	26.19
	EDGE (8PSK, 1 Tx slot)	25.66	25.83	25.76	25.80	25.21	24.86
DTM 9	GSM (GMSK, 1 Tx slot)	29.56	29.73	29.83	27.13	26.59	26.25
	EDGE (8PSK, 1 Tx slot)	25.48	25.80	25.71	25.57	25.08	24.73
DTM 11	GSM (GMSK, 1 Tx slot)	27.75	28.10	28.09	25.09	24.81	24.48
	EDGE (8PSK, 2 Tx slots)	25.50	25.66	25.62	25.37	24.61	24.36

Conducted Power	Burst Average Power (dBm)					
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency (MHz)	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	23.48	23.17	23.35	23.24	23.81	23.28
HSDPA Subtest-1	22.71	22.55	22.63	22.11	22.83	22.29
HSDPA Subtest-2	22.72	22.43	22.59	22.09	22.79	22.22
HSDPA Subtest-3	22.42	22.10	22.16	21.54	22.35	22.04
HSDPA Subtest-4	22.35	22.13	22.07	21.62	22.41	21.94
HSUPA Subtest-1	22.47	22.35	22.36	22.18	22.70	22.02
HSUPA Subtest-2	21.98	21.42	21.42	21.26	21.47	21.12
HSUPA Subtest-3	21.57	21.04	21.08	21.17	21.56	21.15
HSUPA Subtest-4	22.30	21.70	21.78	21.52	21.90	21.74
HSUPA Subtest-5	22.70	22.48	22.57	22.41	23.09	22.61

Conducted Power	Burst Average Power (dBm)		
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	22.78	22.84	23.53
HSDPA Subtest-1	22.18	22.28	22.94
HSDPA Subtest-2	22.14	22.15	22.97
HSDPA Subtest-3	21.53	21.55	22.14
HSDPA Subtest-4	21.86	21.54	22.18
HSUPA Subtest-1	22.04	22.03	22.35
HSUPA Subtest-2	21.22	21.46	21.06
HSUPA Subtest-3	21.09	21.16	21.35
HSUPA Subtest-4	21.16	21.26	21.36
HSUPA Subtest-5	22.14	23.00	22.60

- b. During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

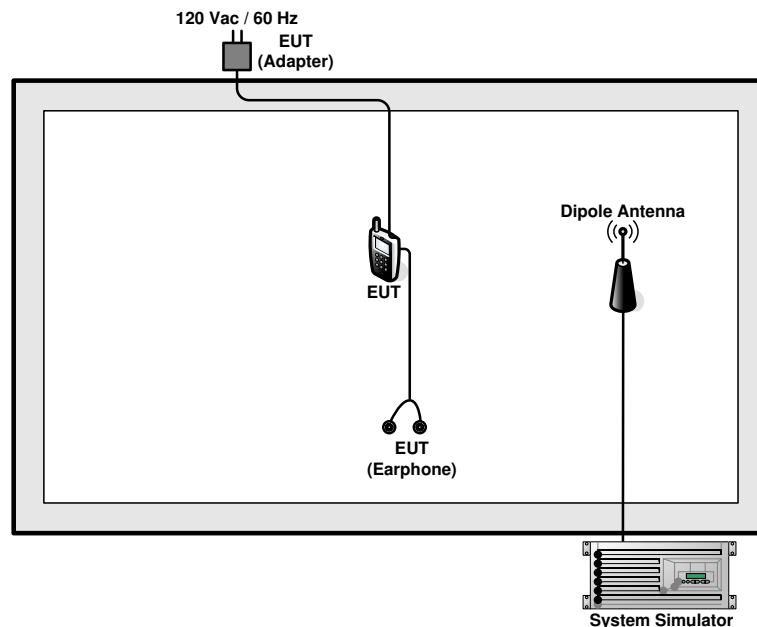
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.
3. 30 MHz to 18000 MHz for WCDMA Band IV.

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

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM or GPRS multi-slot class 8 mode for GMSK modulation,
EDGE multi-slot class 8 mode for 8PSK modulation,
RMC 12.2Kbps mode for WCDMA band V,
RMC 12.2Kbps mode for WCDMA band II,
RMC 12.2Kbps mode for WCDMA band IV, only these modes were used for all tests..

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

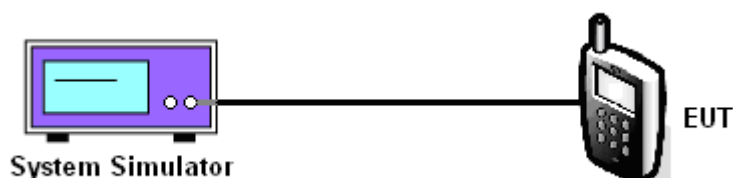
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



3.1.6 Test Result of Conducted Output Power

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Conducted Power (dBm)	33.02	32.99	33.12	26.28	26.34	26.37	23.48	23.17	23.35
Conducted Power (Watts)	2.00	1.99	2.05	0.42	0.43	0.43	0.22	0.21	0.22

PCS Band									
Modes	GSM1900 (GPRS class 8)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	30.22	29.98	29.61	25.76	25.15	24.81	23.24	23.81	23.28
Conducted Power (Watts)	1.05	1.00	0.91	0.38	0.33	0.30	0.21	0.24	0.21

AWS Band			
Modes	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312(Low)	1413 (Mid)	1513 (High)
Frequency (MHz)	1712.4	1732.6	1752.6
Conducted Power (dBm)	22.78	23.00	23.53
Conducted Power (Watts)	0.19	0.20	0.36

Note: maximum burst average power for GSM/GPRS, and maximum average power for WCDMA.

3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

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

3.2.2 Measuring Instruments

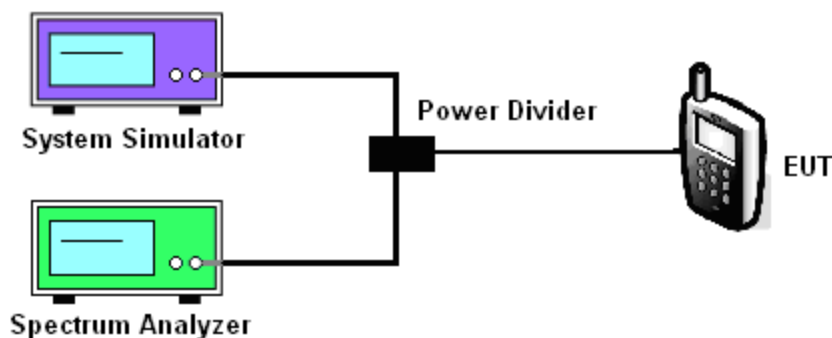
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.

Record the maximum PAPR level associated with a probability of 0.1%.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Peak-to-Average Ratio (dB)	0.24	0.28	0.28	3.36	3.20	3.24	3.04	3.08	3.20

PCS Band									
Modes	GSM1900 (GPRS class 8)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.24	0.28	0.24	3.32	3.44	3.20	3.12	3.20	2.88

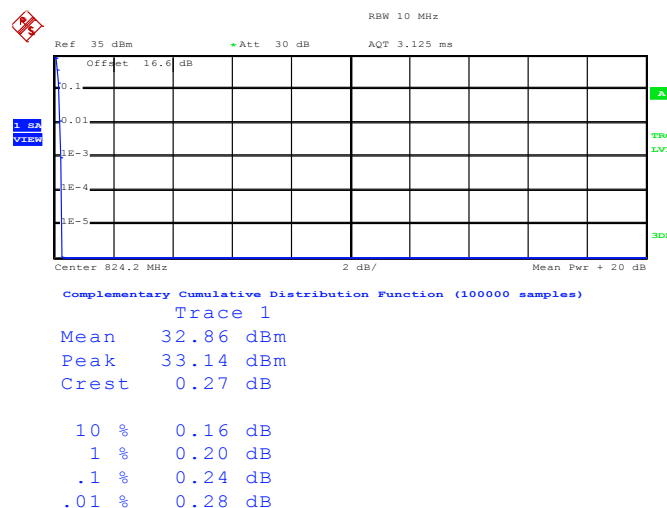
AWS Band			
Modes	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312(Low)	1413 (Mid)	1513 (High)
Frequency (MHz)	1712.4	1732.6	1752.6
Peak-to-Average Ratio (dB)	2.88	2.80	2.76



3.2.6 Test Result (Plots) of Peak-to-Average Ratio

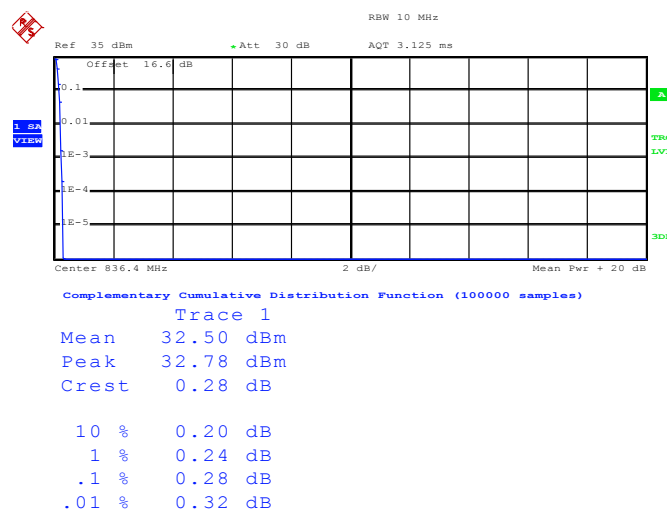
Band :	GSM 850	Test Mode :	GSM Link (GMSK)
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Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 15.APR.2014 09:43:34

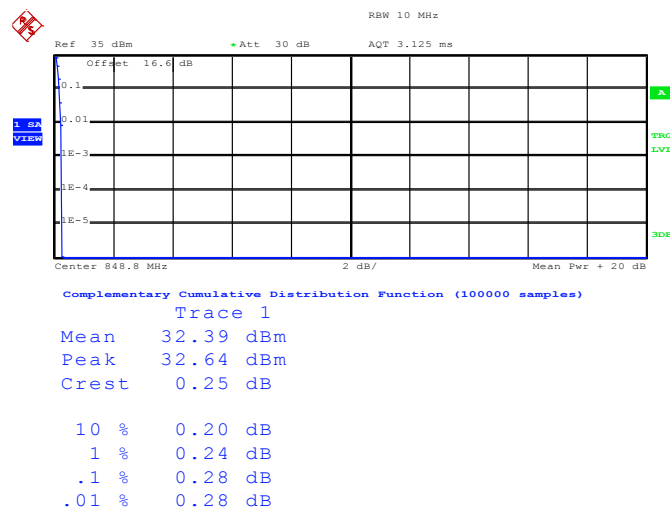
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



Date: 15.APR.2014 09:44:08



Peak-to-Average Ratio on Channel 251 (848.8 MHz)

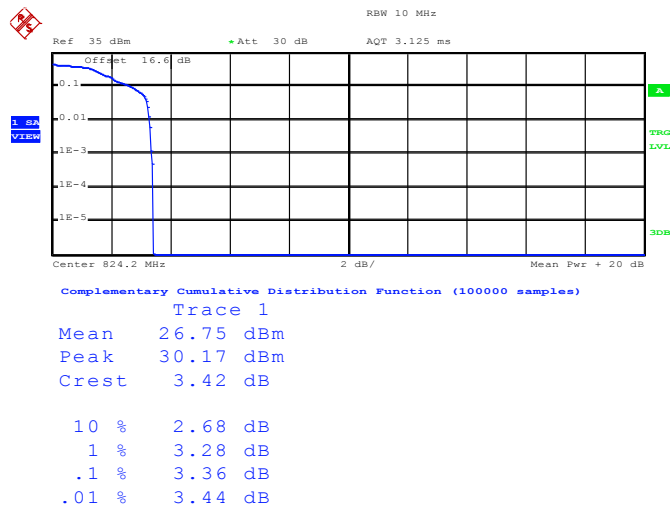


Date: 15.APR.2014 09:44:51



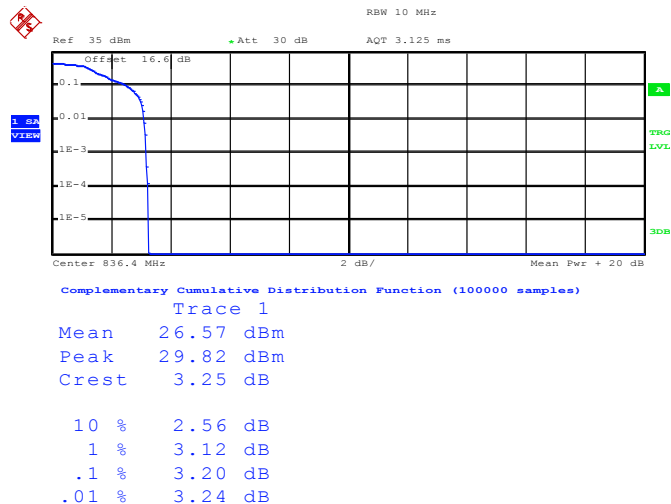
Band :	GSM 850	Test Mode :	EDGE class 8 Link (8PSK)
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Peak-to-Average Ratio on Channel 128 (824.2 MHz)



Date: 15.APR.2014 10:16:44

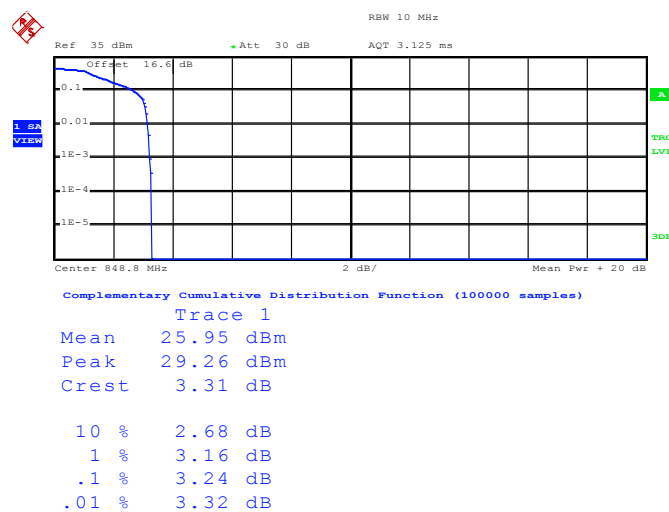
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



Date: 15.APR.2014 10:17:26



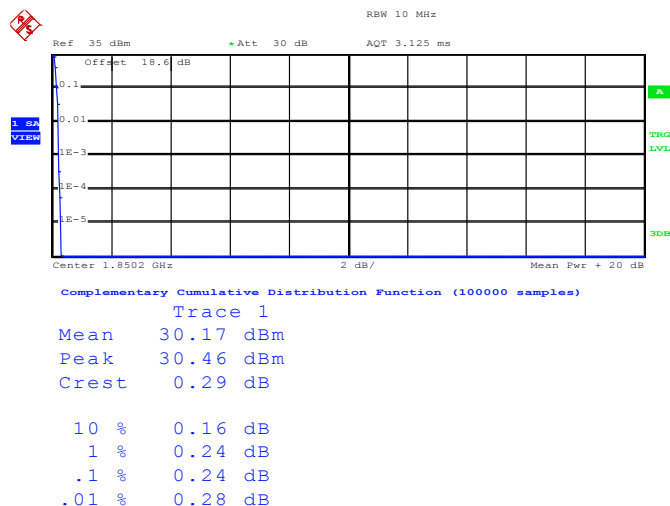
Peak-to-Average Ratio on Channel 251 (848.8 MHz)



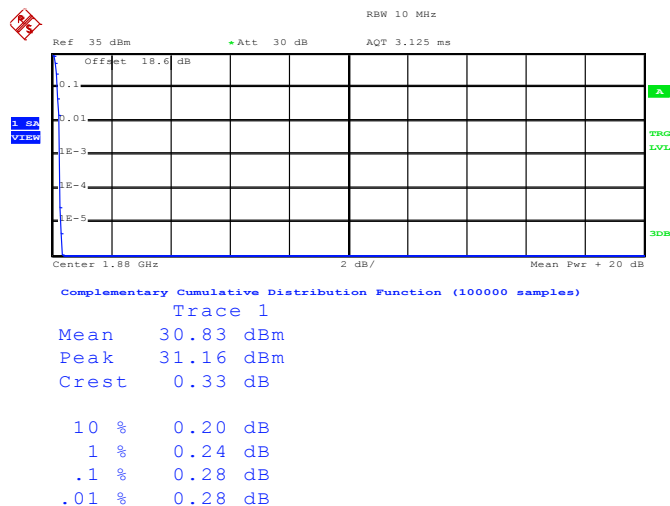
Date: 15.APR.2014 10:18:04



Band :	GSM1900	Test Mode :	GPRS class 8 Link (GMSK)
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)

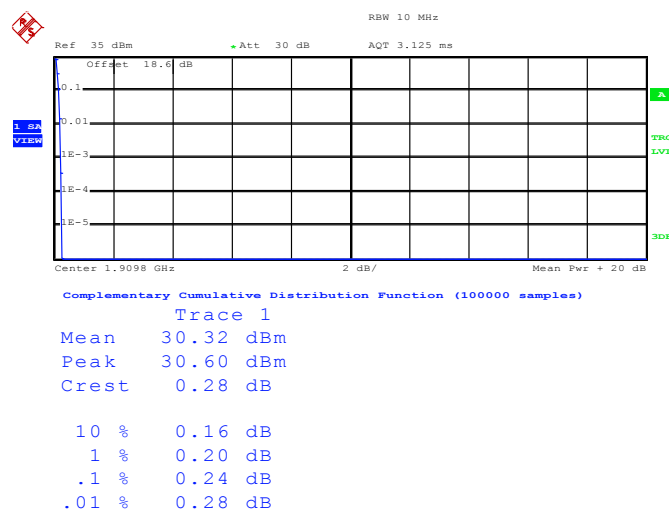
Date: 15.APR.2014 10:56:00

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)

Date: 15.APR.2014 10:56:46



Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

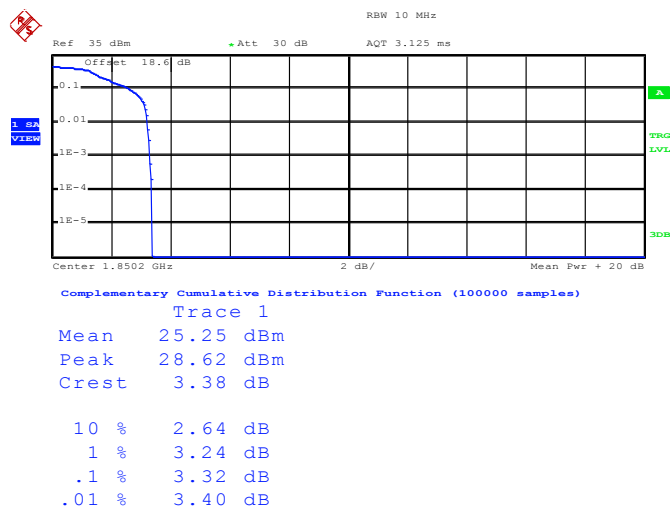


Date: 15.APR.2014 10:57:42



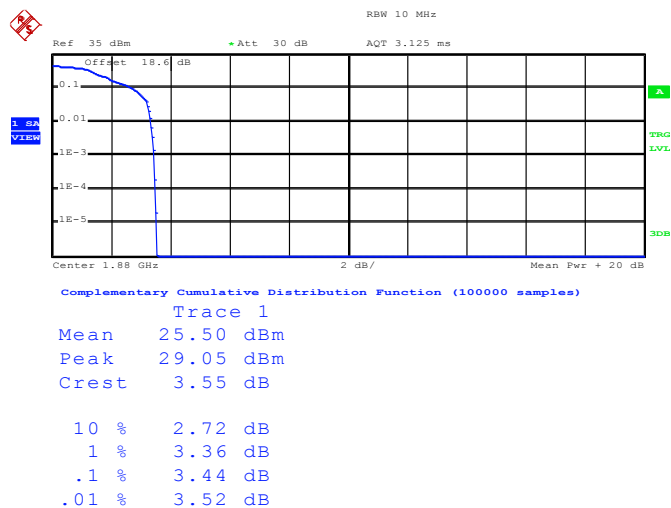
Band :	GSM1900 (GPRS Class 8)	Test Mode :	EDGE class 8 Link (8PSK)
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 11:31:52

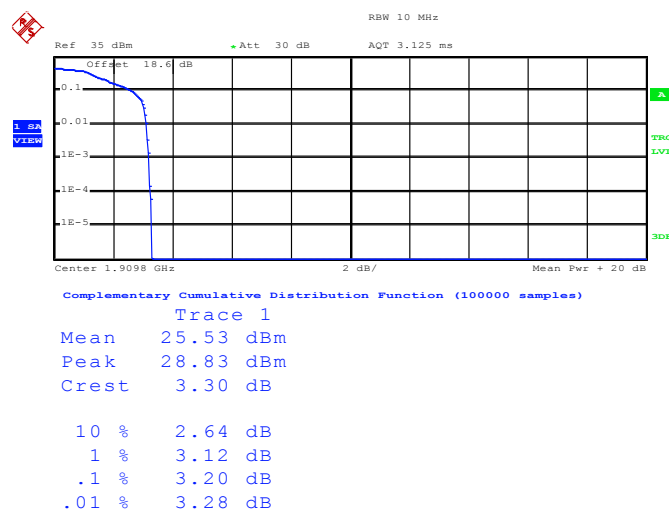
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 15.APR.2014 11:32:54



Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

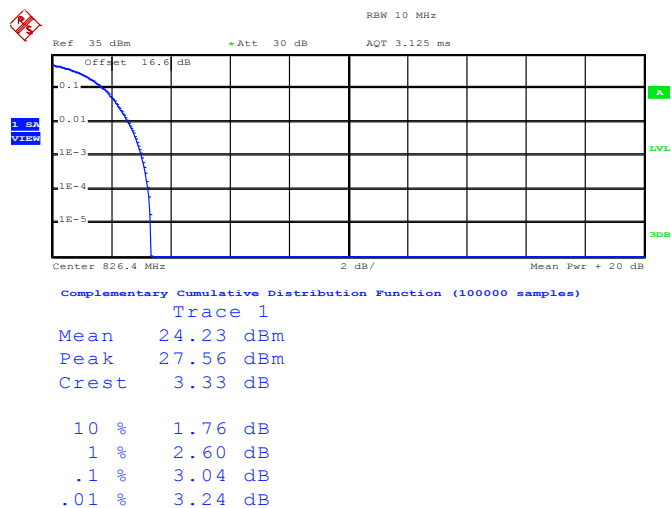


Date: 15.APR.2014 11:33:41



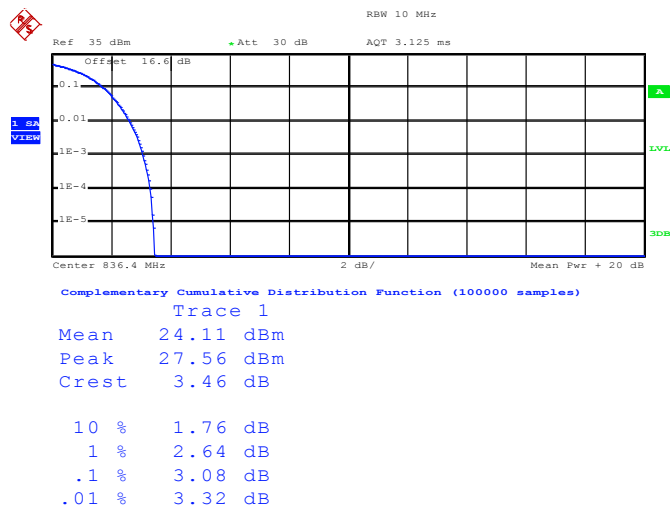
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
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Peak-to-Average Ratio on Channel 4132 (826.4 MHz)



Date: 15.APR.2014 15:51:00

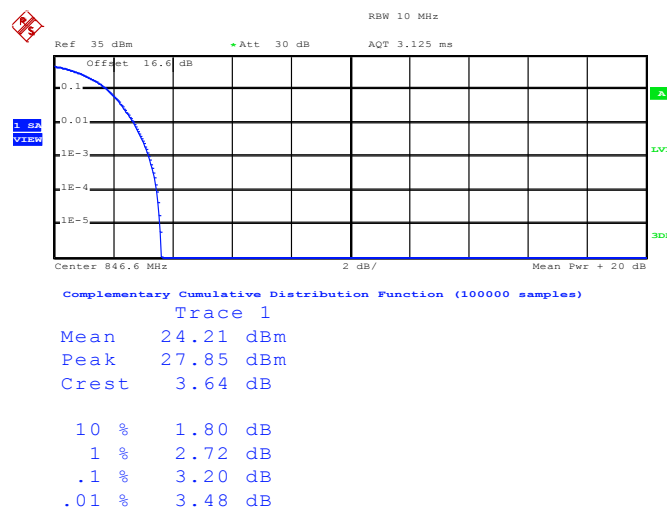
Peak-to-Average Ratio on Channel 4182 (836.4 MHz)



Date: 15.APR.2014 15:53:59



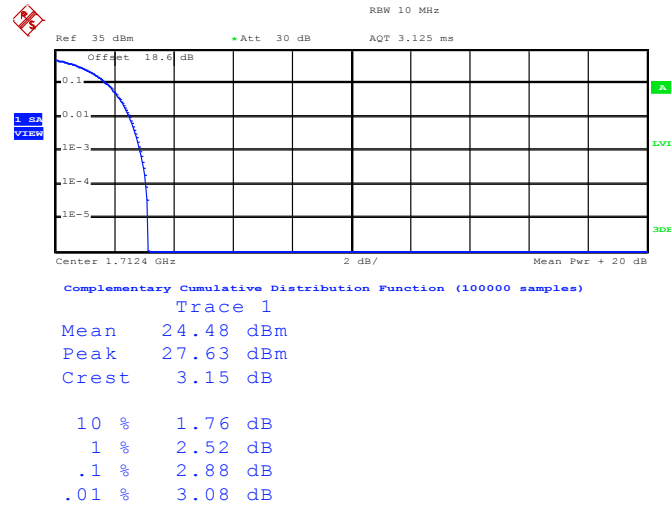
Peak-to-Average Ratio on Channel 4233 (846.6 MHz)



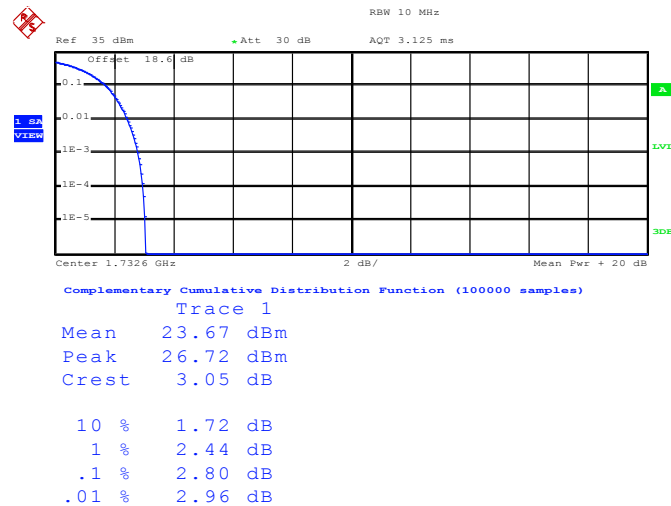
Date: 15.APR.2014 15:54:39



Band :	WCDMA Band IV	Test Mode :	RMC 12.2Kbps Link (QPSK)
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Peak-to-Average Ratio on Channel 1312 (1712.4 MHz)

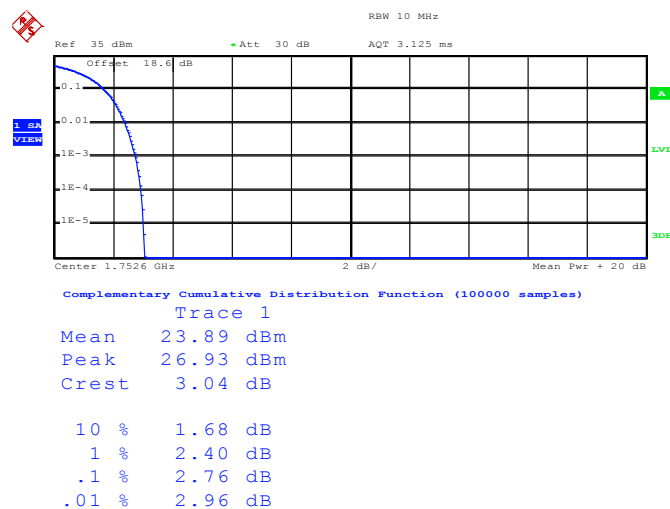
Date: 15.APR.2014 14:57:10

Peak-to-Average Ratio on Channel 1413 (1732.6 MHz)

Date: 15.APR.2014 15:00:56



Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)

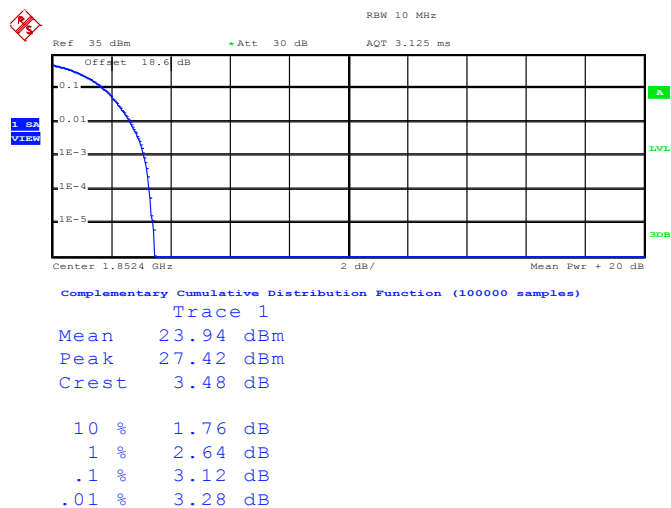


Date: 15.APR.2014 15:04:20



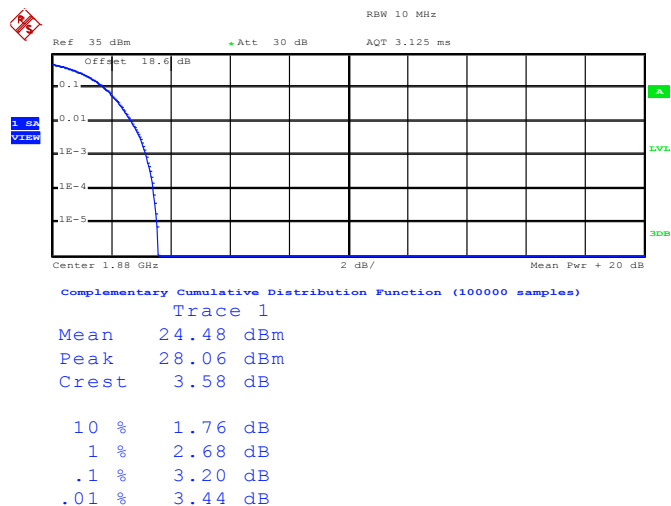
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
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Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



Date: 15.APR.2014 13:58:08

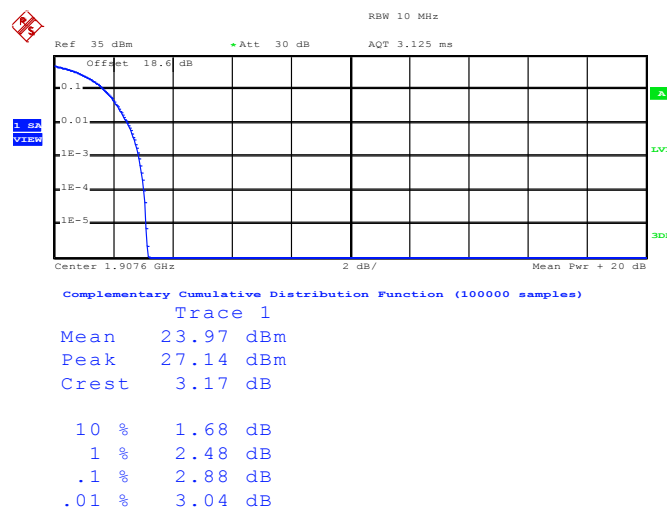
Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Date: 15.APR.2014 13:58:55



Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 15.APR.2014 14:00:52



3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band) and 1 Watts (AWS Band).

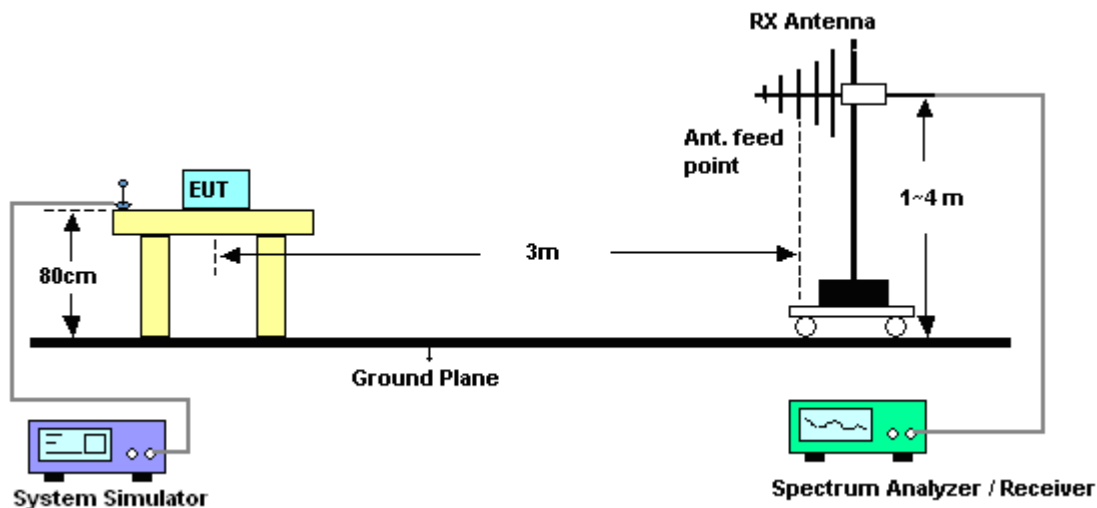
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
2. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at the same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

3.3.4 Test Setup



3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.20	-0.48	31.54	28.91	0.78
836.40	-0.59	32.04	29.30	0.85
848.80	-0.91	32.59	29.53	0.90
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.20	-8.93	32.93	21.85	0.15
836.40	-9.06	32.82	21.61	0.14
848.80	-9.50	33.62	21.97	0.16

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

GSM850 (EDGE class 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.20	-7.45	31.54	21.94	0.16
836.40	-7.91	32.04	21.98	0.16
848.80	-8.38	32.59	22.06	0.16
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.20	-16.14	32.93	14.64	0.03
836.40	-16.39	32.82	14.28	0.03
848.80	-16.24	33.62	15.23	0.03

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	-9.78	31.44	19.51	0.09
836.40	-9.98	32.04	19.91	0.10
846.60	-10.06	32.63	20.42	0.11
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	-18.38	32.78	12.25	0.02
836.40	-18.44	32.82	12.23	0.02
846.60	-18.76	33.40	12.49	0.02

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

3.3.6 Test Result of EIRP

GSM1900 (GPRS class 8) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-14.05	45.34	31.29	1.35
1880.00	-14.04	46.01	31.97	1.57
1909.80	-14.38	45.81	31.43	1.39
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-19.70	49.22	29.52	0.90
1880.00	-20.59	50.42	29.83	0.96
1909.80	-19.25	49.00	29.75	0.94

* EIRP = LVL (dBm) + Correction Factor (dB)

GSM1900 (EDGE class 8) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-20.14	45.34	25.20	0.33
1880.00	-19.80	46.01	26.21	0.42
1909.80	-21.24	45.81	24.57	0.29
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-25.62	49.22	23.60	0.23
1880.00	-25.65	50.42	24.77	0.30
1909.80	-25.15	49.00	23.85	0.24

* EIRP = LVL (dBm) + Correction Factor (dB)

WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.40	-24.04	41.74	17.70	0.06
1732.60	-23.78	42.41	18.63	0.07
1752.60	-22.26	41.82	19.56	0.09
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.40	-21.50	43.38	21.88	0.15
1732.60	-23.96	45.43	21.47	0.14
1752.60	-21.46	44.43	22.97	0.20

* EIRP = LVL (dBm) + Correction Factor (dB)

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.40	-21.40	45.37	23.97	0.25
1880.00	-21.79	46.01	24.22	0.26
1907.60	-21.57	45.87	24.30	0.27
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.40	-28.36	49.23	20.87	0.12
1880.00	-28.56	50.42	21.86	0.15
1907.60	-27.03	49.04	22.01	0.16

* EIRP = LVL (dBm) + Correction Factor (dB)

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

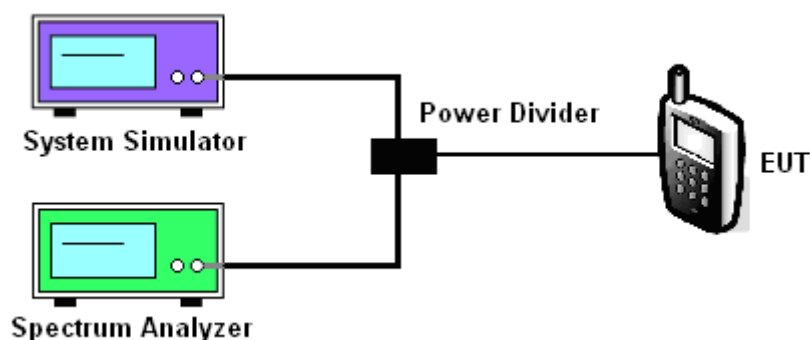
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (kHz)	244.00	246.00	244.00	248.00	244.00	246.00
26dB BW (kHz)	308.00	308.00	312.00	306.00	298.00	302.00

PCS Band						
Modes	GSM1900 (GPRS class 8)			GSM1900 (EDGE class 8)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	248.00	252.00	246.00	246.00	244.00	246.00
26dB BW (kHz)	314.00	316.00	316.00	312.00	308.00	310.00

Cellular Band			
Modes	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.16	4.16	4.20
26dB BW (MHz)	4.66	4.68	4.68

AWS Band			
Modes	WCDMA Band IV (RMC 12.2Kbps)		
Channel	1312(Low)	1413 (Mid)	1513 (High)
Frequency (MHz)	1712.4	1732.6	1752.6
99% OBW (MHz)	4.18	4.16	4.18
26dB BW (MHz)	4.68	4.68	4.68

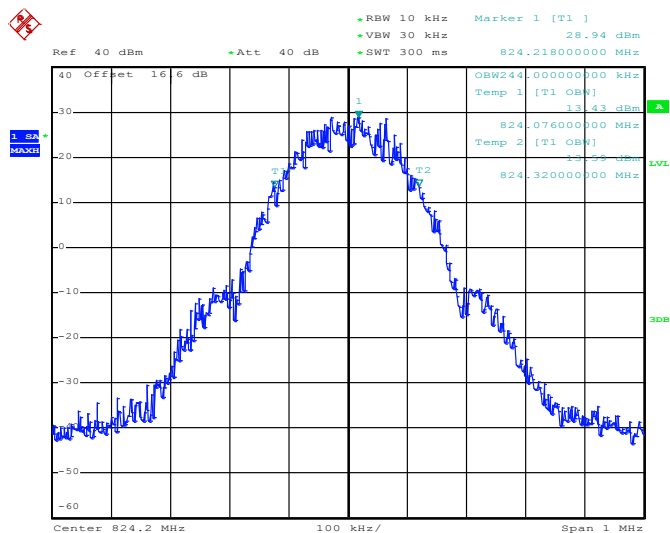
PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.16	4.16	4.16
26dB BW (MHz)	4.68	4.68	4.68



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

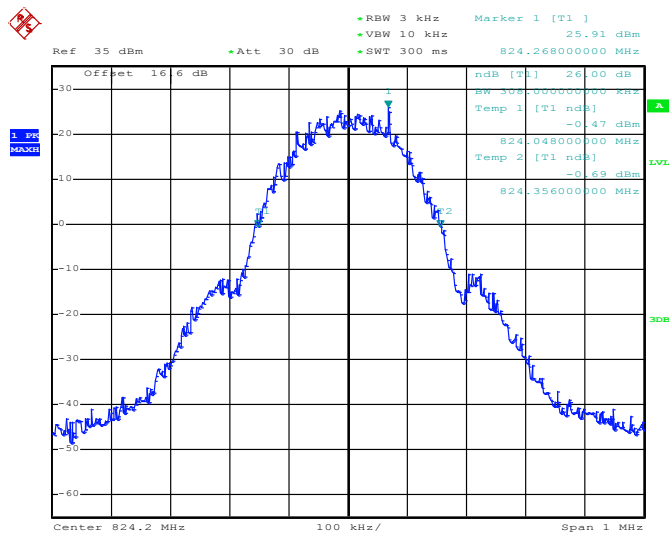
Band :	GSM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 09:28:24

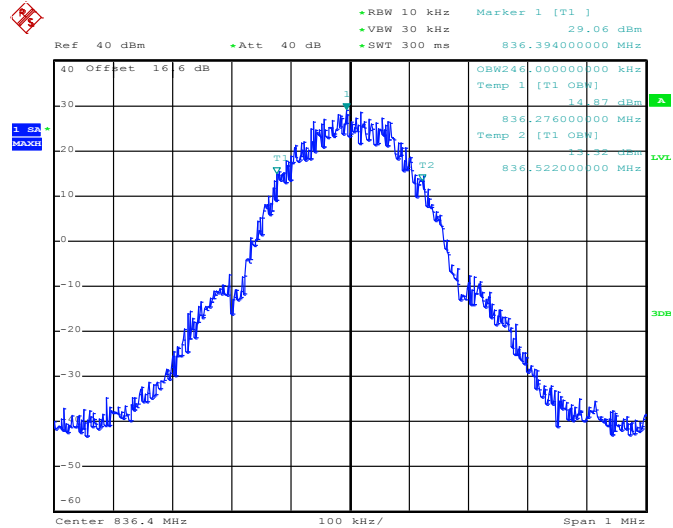
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 09:24:51

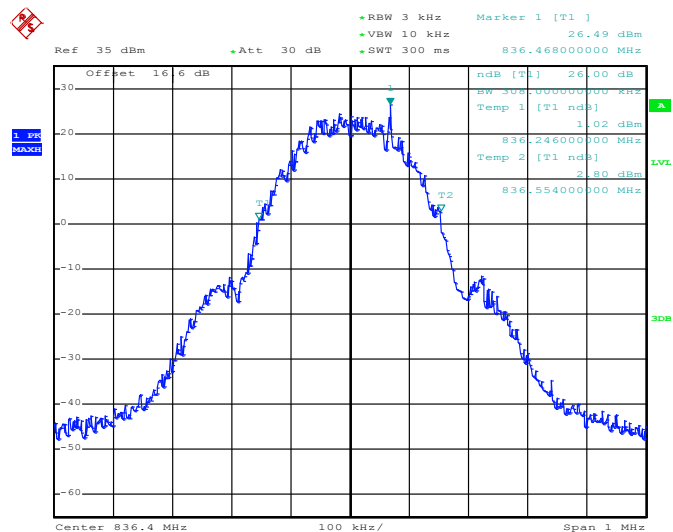


99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 15.APR.2014 09:27:13

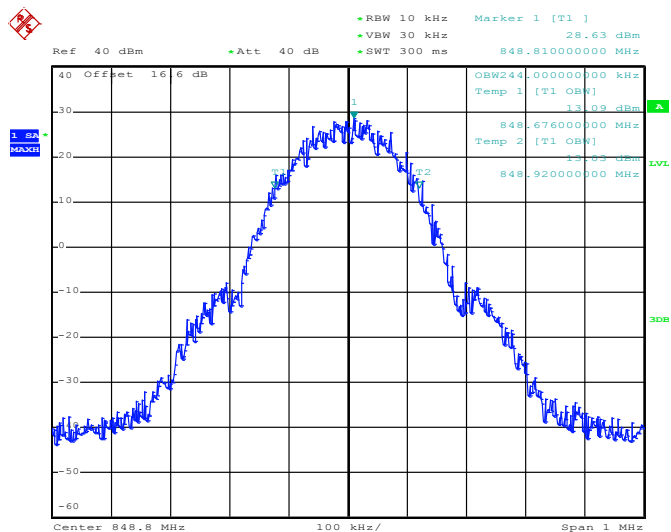
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 15.APR.2014 09:25:20

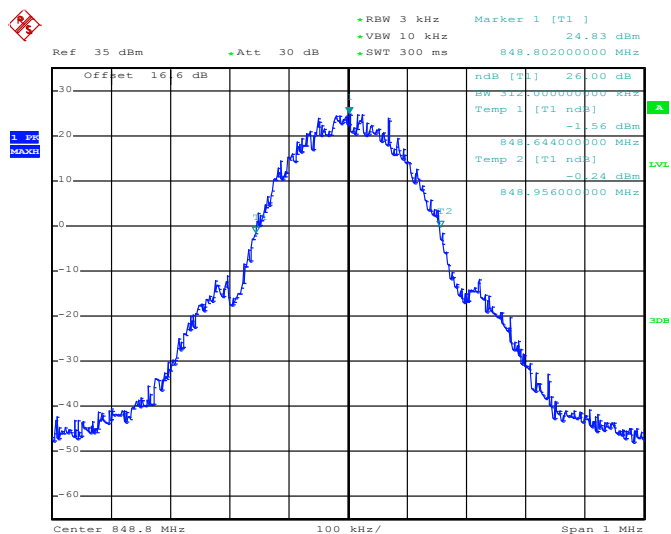


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 15.APR.2014 09:27:42

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

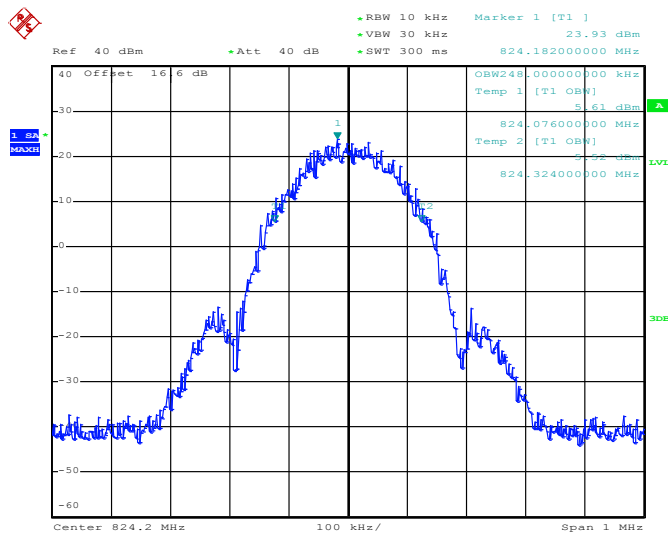


Date: 15.APR.2014 09:25:48



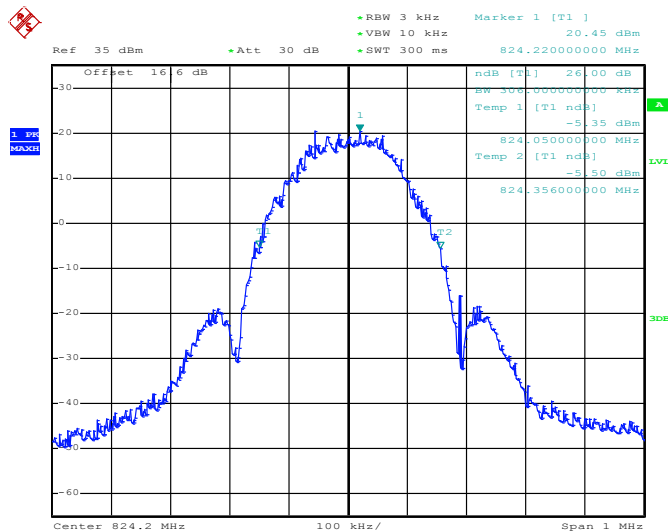
Band :	GSM 850	Test Mode :	EDGE class 8 Link (8PSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 10:05:13

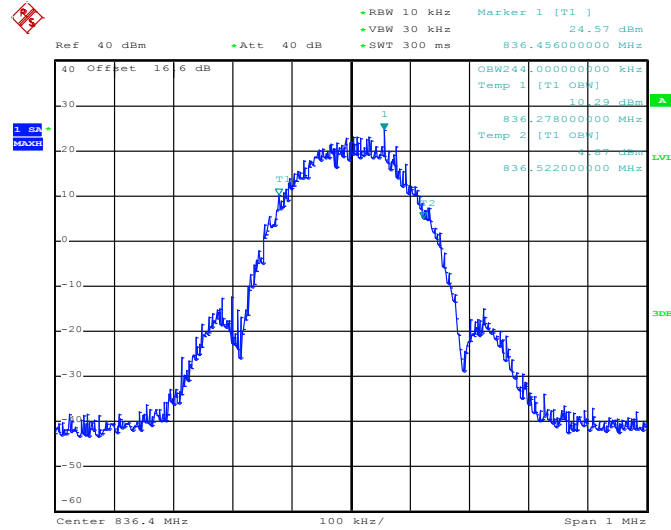
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 10:02:06

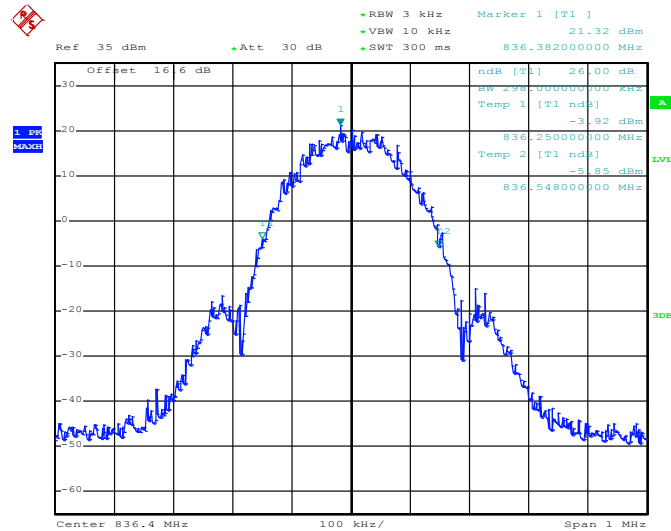


99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 15.APR.2014 10:05:41

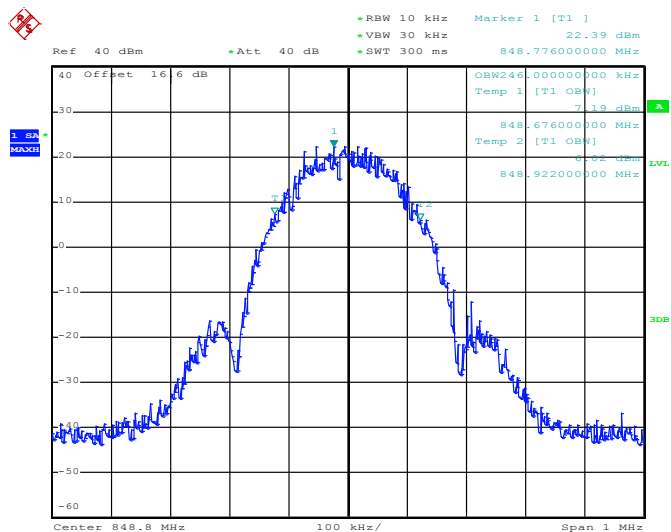
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 15.APR.2014 10:02:35

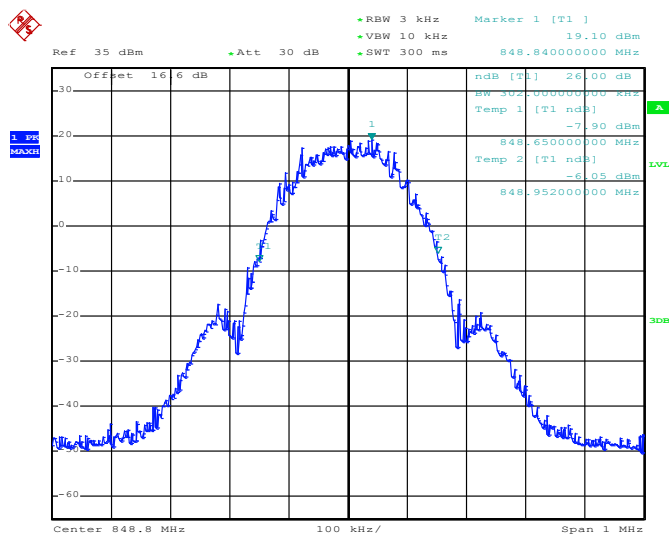


99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 15.APR.2014 10:06:10

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

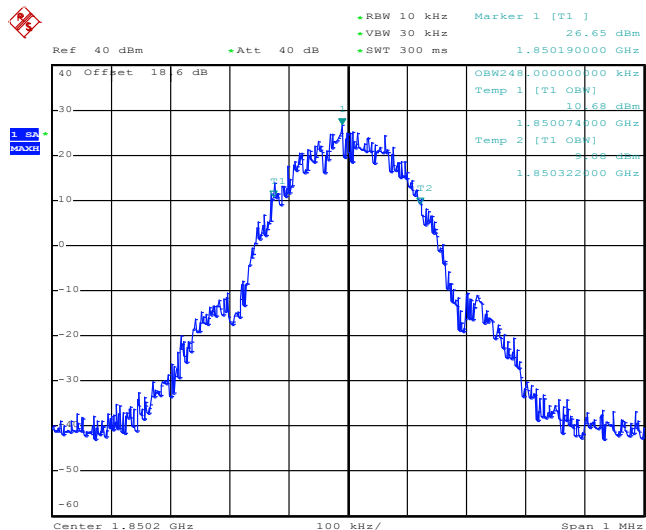


Date: 15.APR.2014 10:03:04



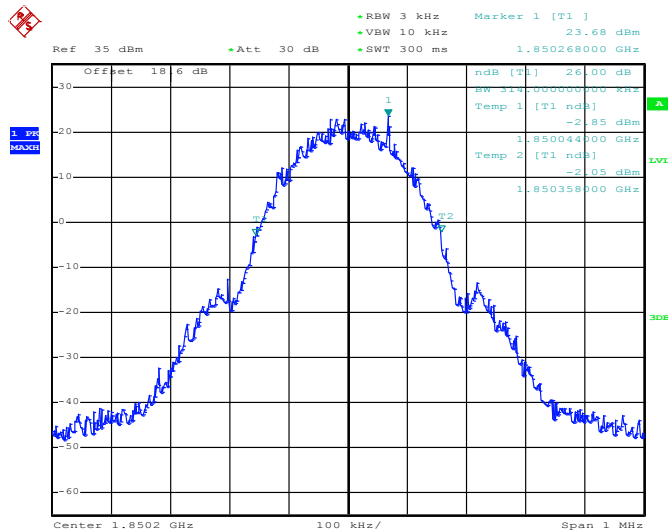
Band :	GSM 1900	Test Mode :	GPRS class 8 Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 10:42:15

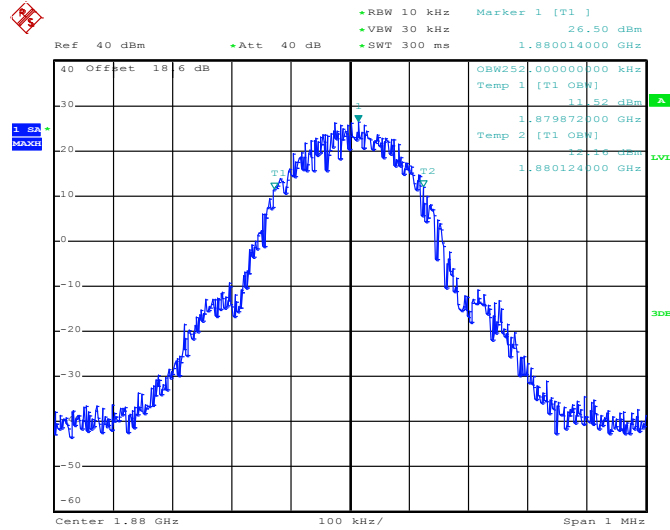
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 10:37:50

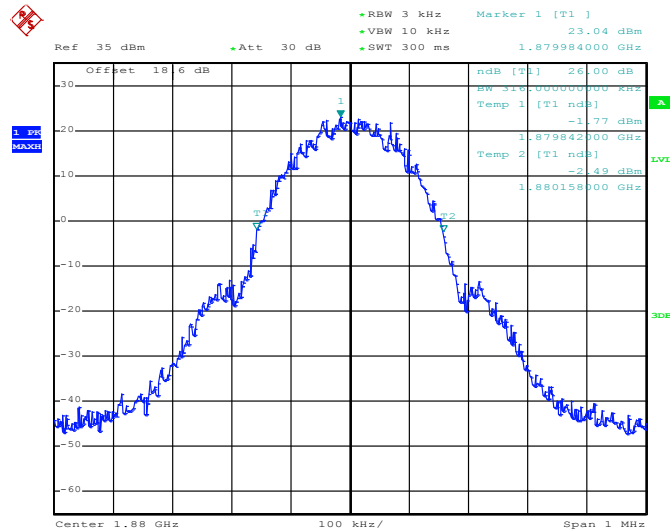


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 15.APR.2014 10:45:17

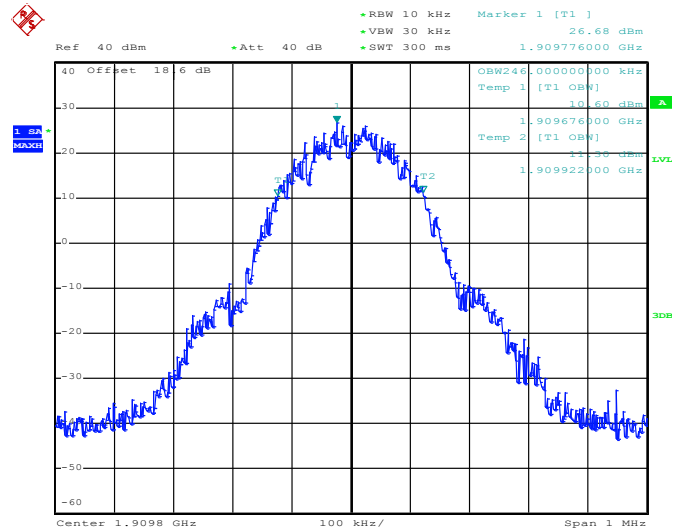
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 15.APR.2014 10:38:18

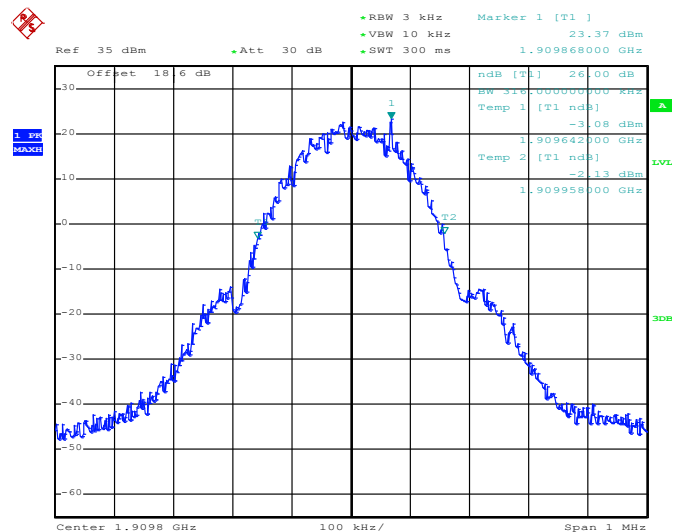


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 15.APR.2014 10:45:46

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

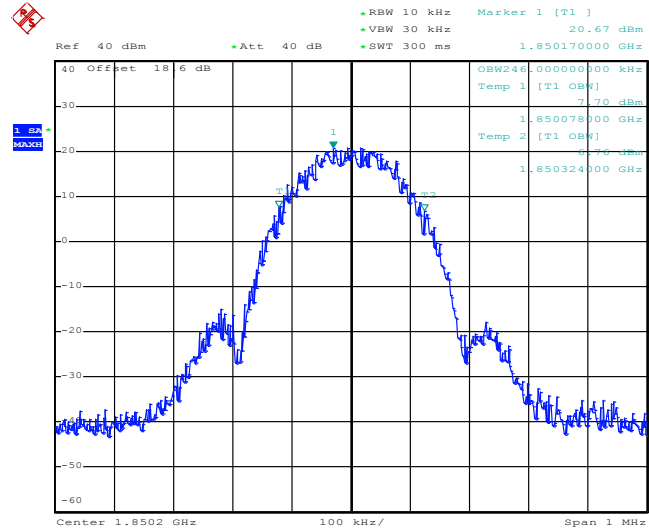


Date: 15.APR.2014 10:38:47



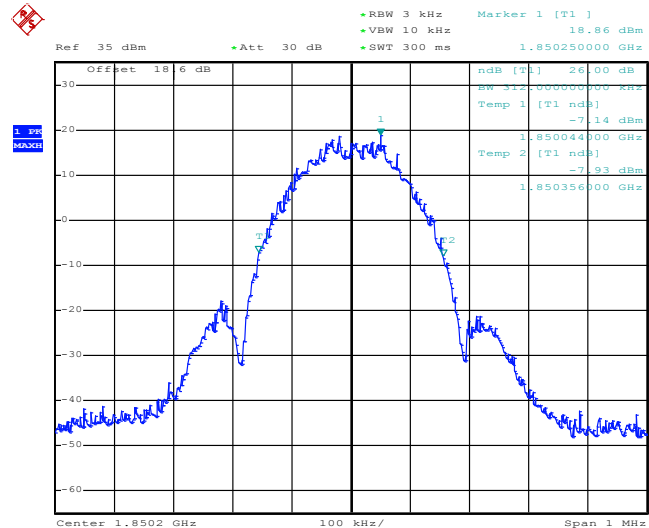
Band :	GSM 1900	Test Mode :	EDGE class 8 Link (8PSK)
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99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 11:20:33

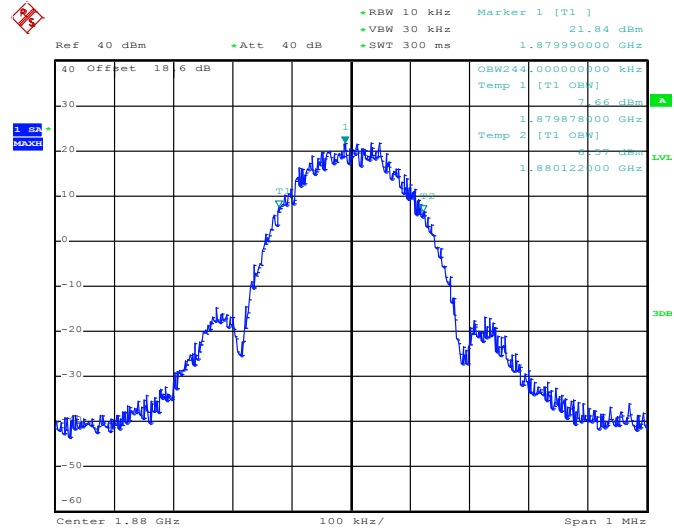
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 11:18:39

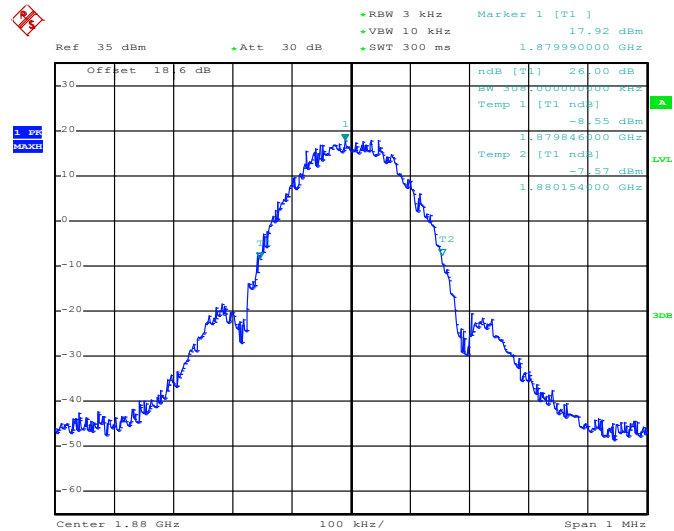


99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 15.APR.2014 11:21:01

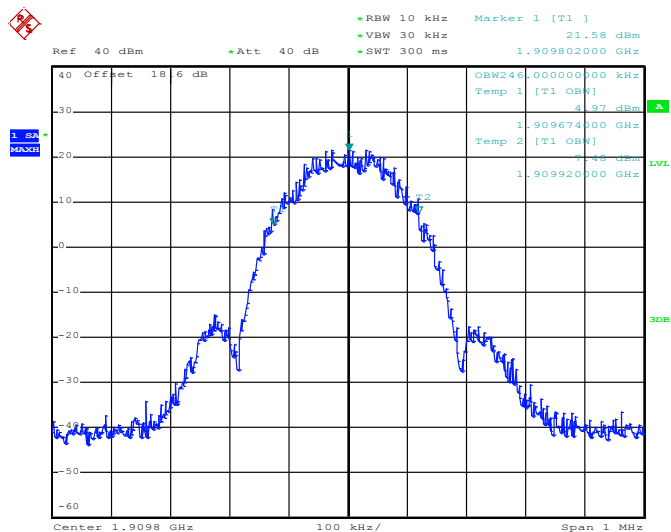
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 15.APR.2014 11:19:08

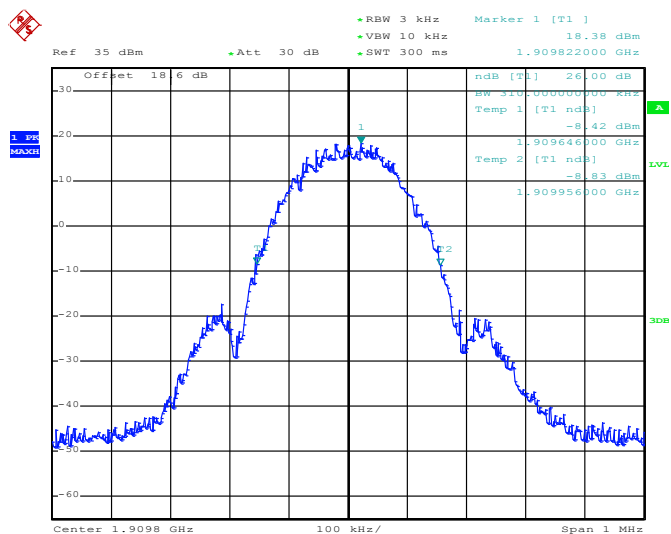


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 15.APR.2014 11:21:30

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

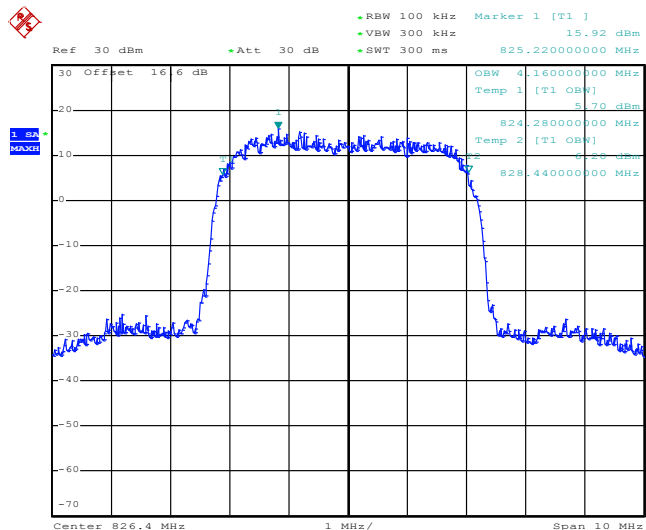


Date: 15.APR.2014 11:19:36



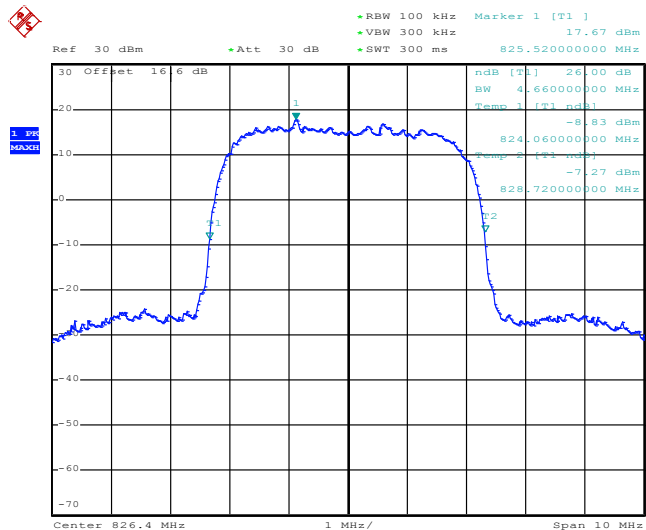
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
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99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 15.APR.2014 15:29:26

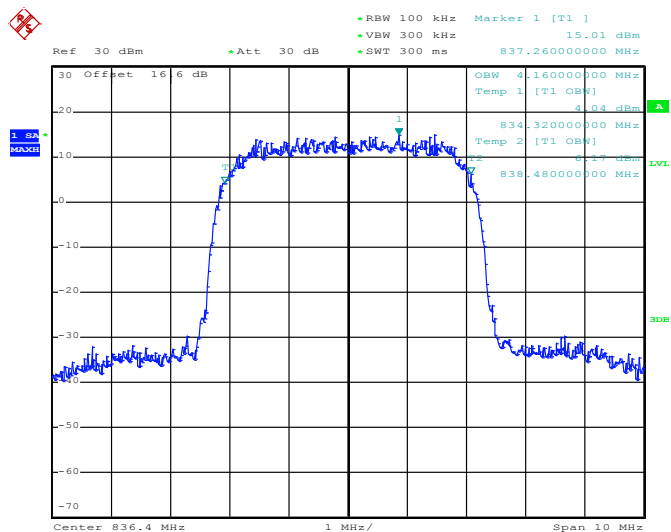
26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 15.APR.2014 15:22:44

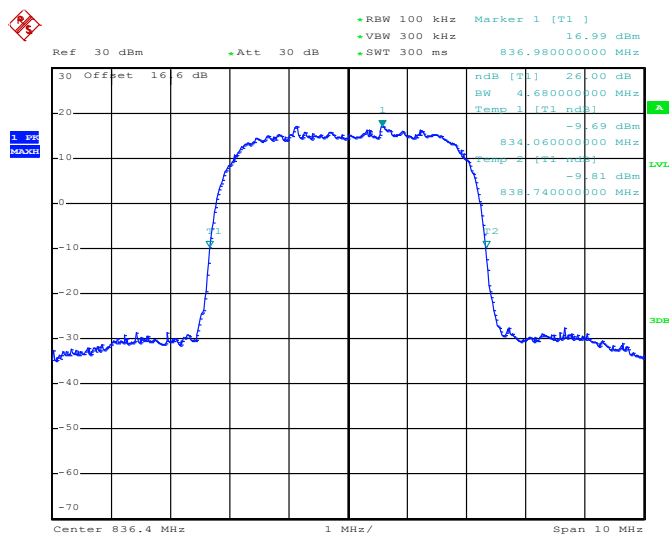


99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 15.APR.2014 15:29:54

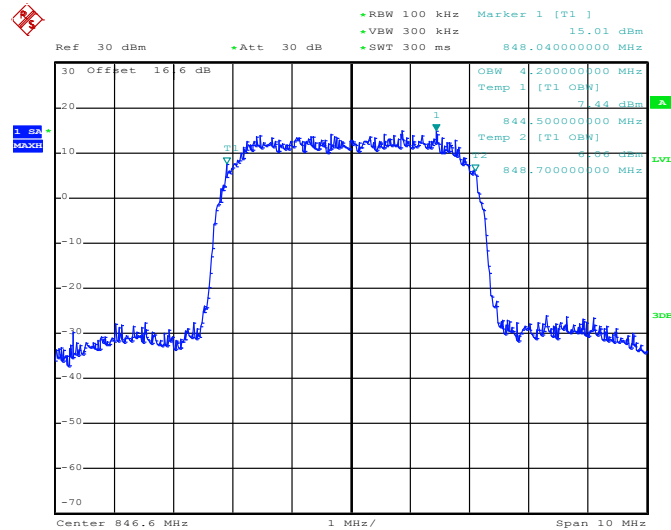
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 15.APR.2014 15:27:53

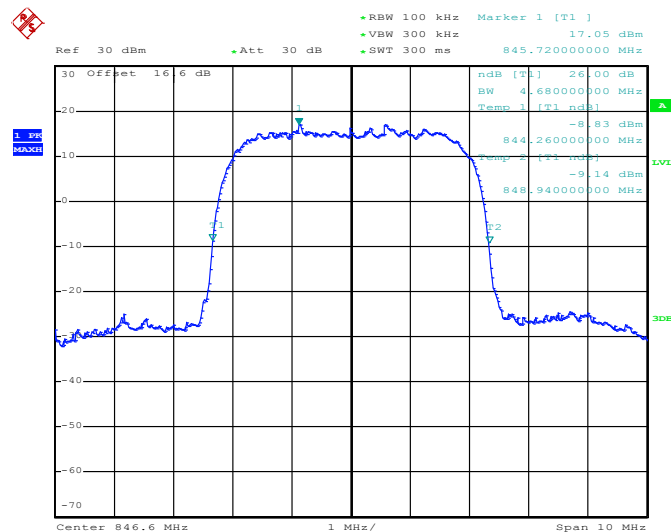


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 15.APR.2014 15:30:23

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

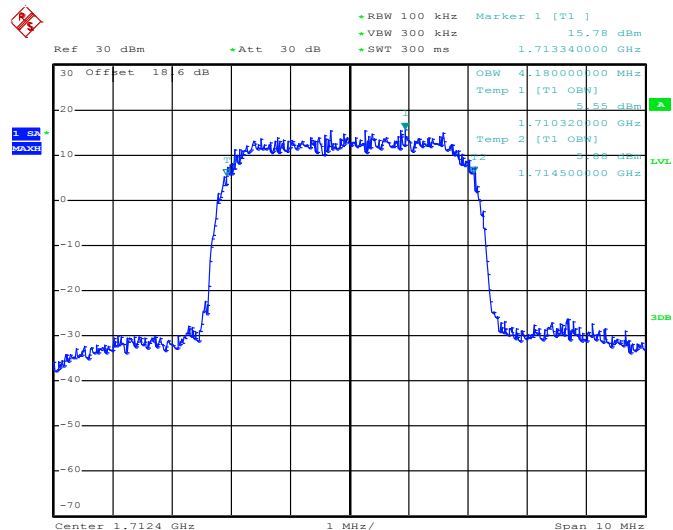


Date: 15.APR.2014 15:23:41



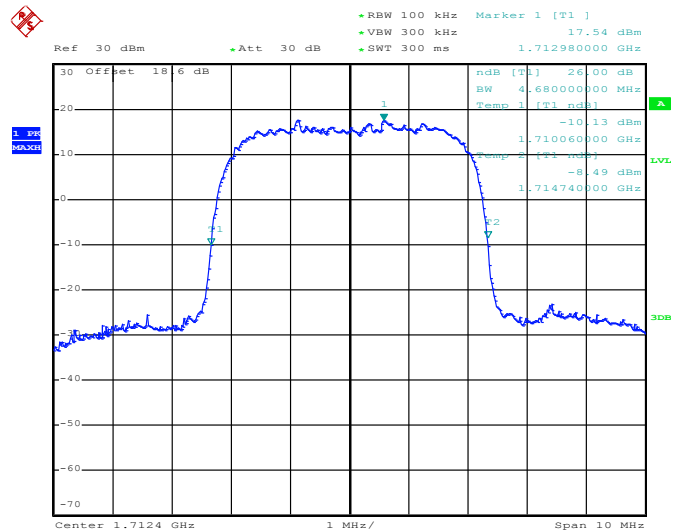
Band :	WCDMA Band IV	Test Mode :	RMC 12.2Kbps Link (QPSK)
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99% Occupied Bandwidth Plot on Channel 1312 (1712.4 MHz)

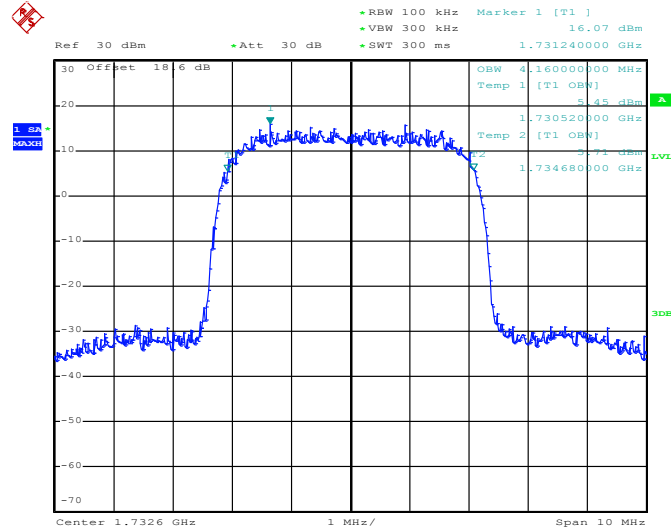


Date: 15.APR.2014 14:44:52

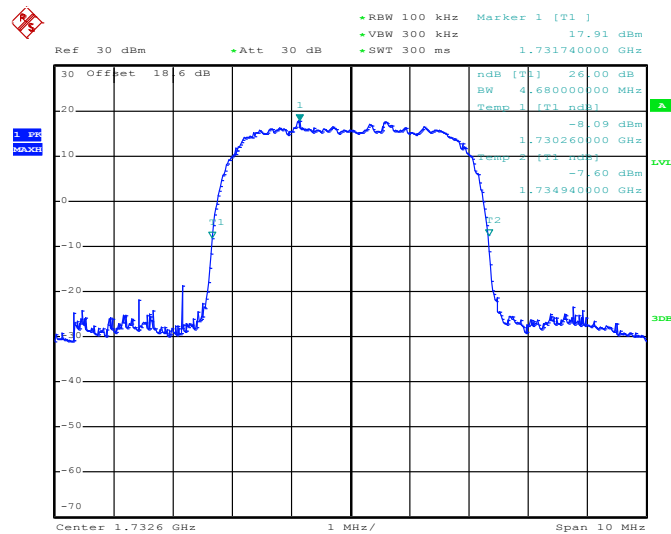
26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 15.APR.2014 14:39:50

99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)


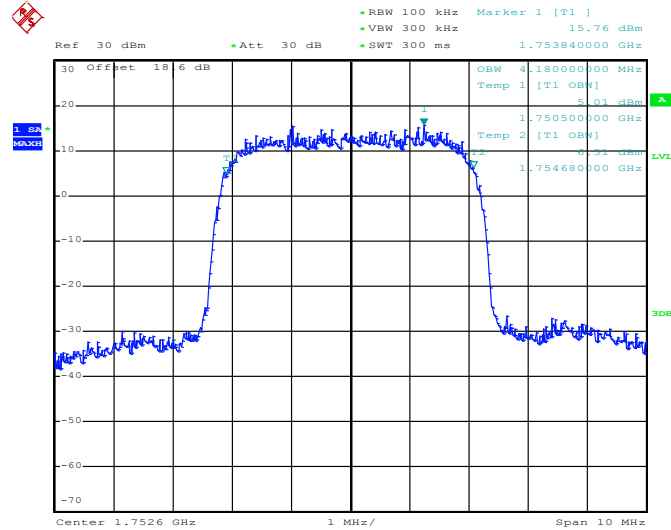
Date: 15.APR.2014 14:45:21

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)


Date: 15.APR.2014 14:37:46

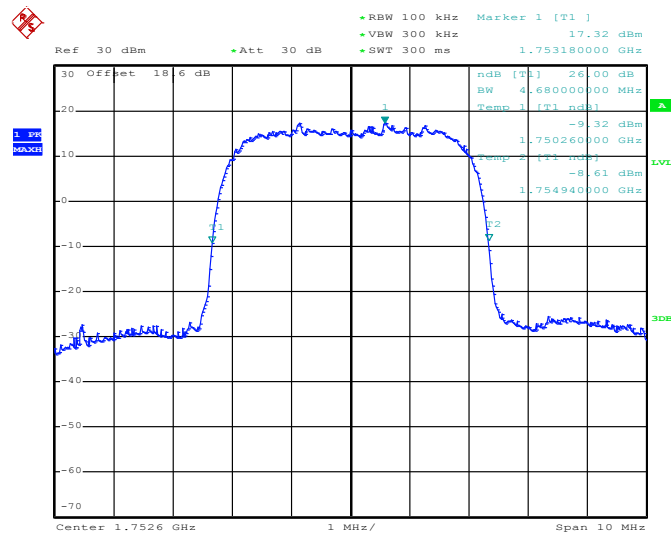


99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



Date: 15.APR.2014 14:45:49

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)

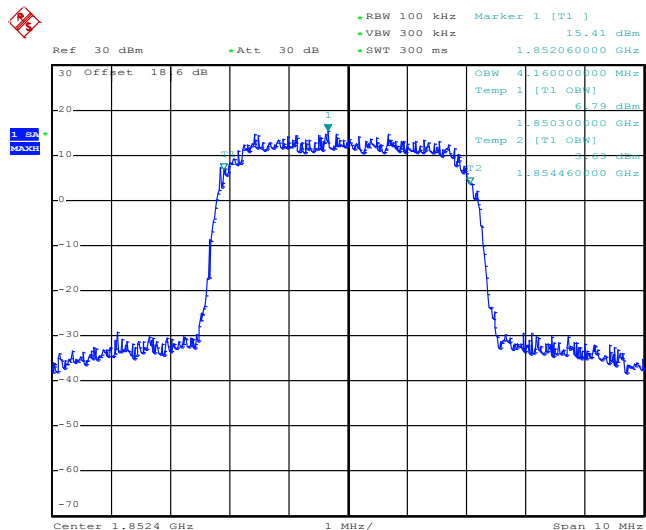


Date: 15.APR.2014 14:43:05



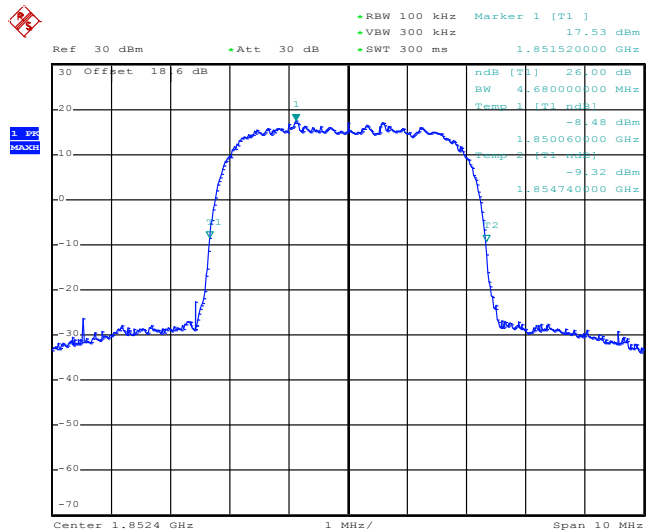
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
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99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 15.APR.2014 13:48:46

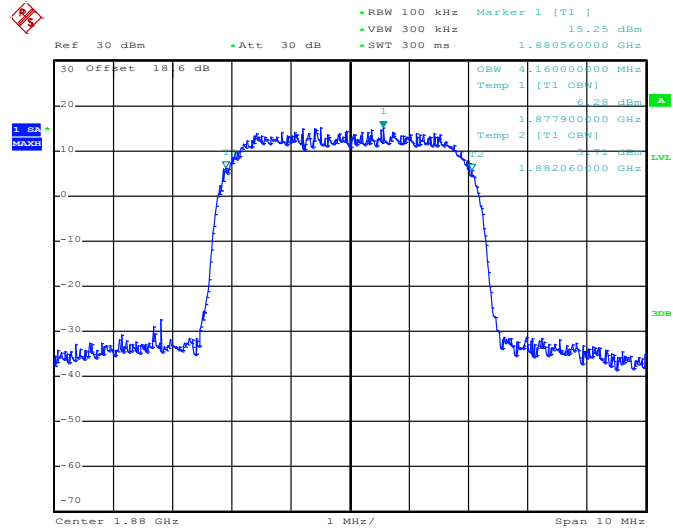
26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 15.APR.2014 13:47:03

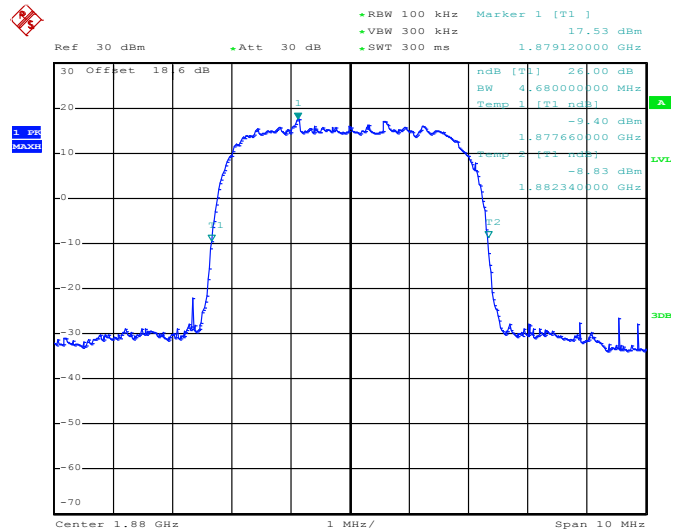


99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 15.APR.2014 13:49:15

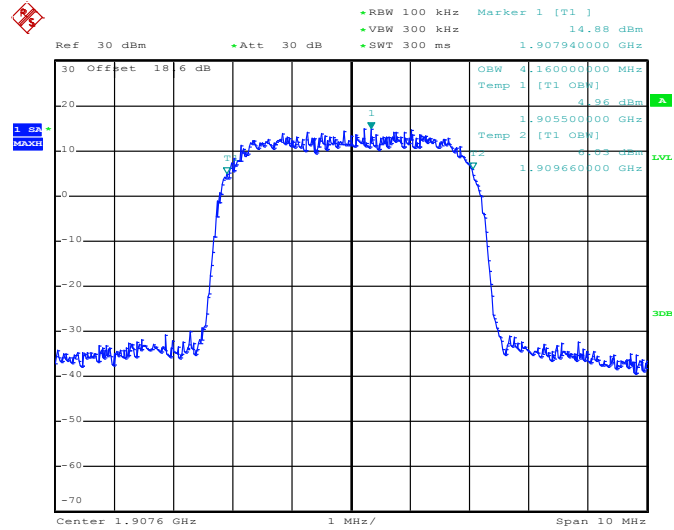
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 15.APR.2014 13:47:32

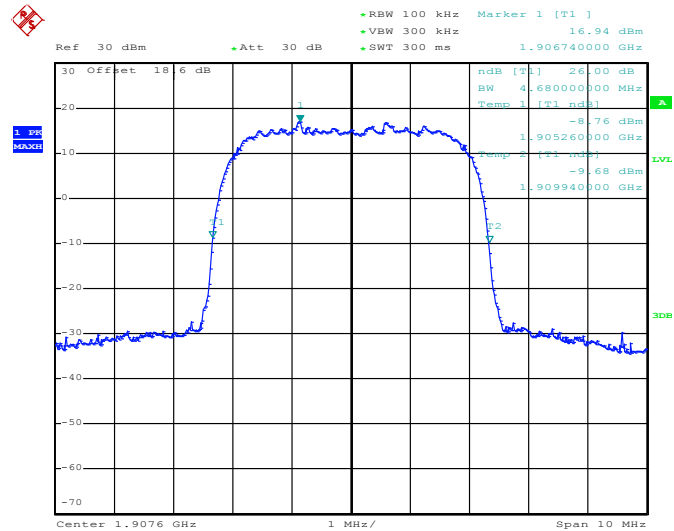


99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 15.APR.2014 13:49:43

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 15.APR.2014 13:48:00

3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

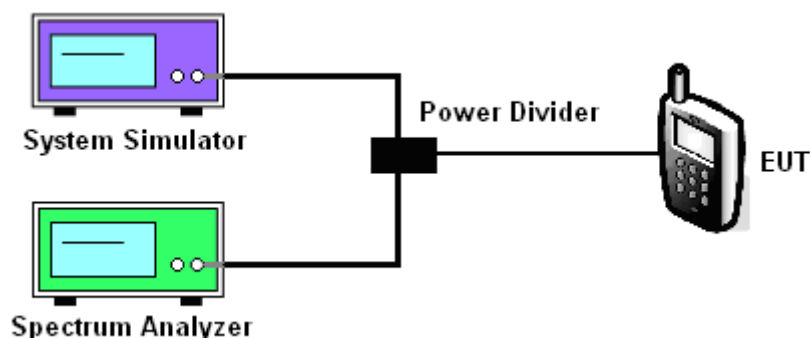
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup

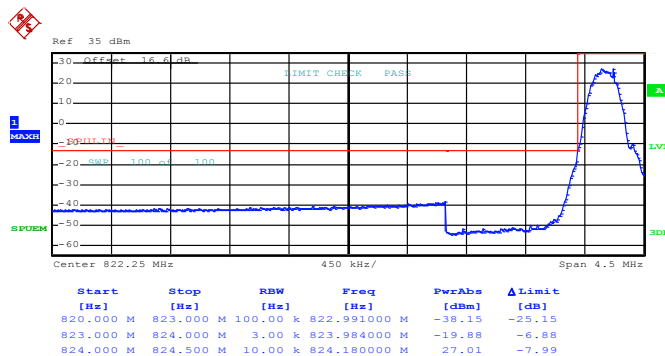




3.5.5 Test Result (Plots) of Conducted Band Edge

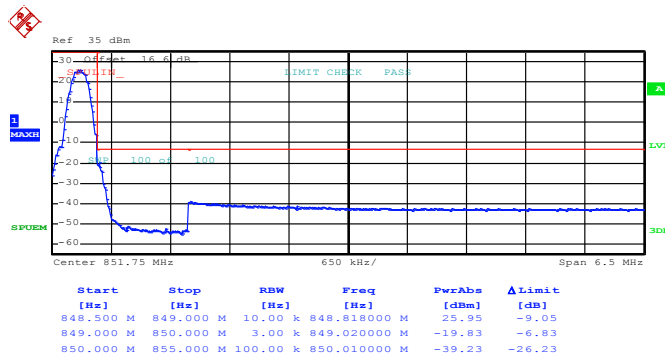
Band :	GSM850	Test Mode :	GSM Link (GMSK)
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Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 09:40:05

Higher Band Edge Plot on Channel 251 (848.8 MHz)

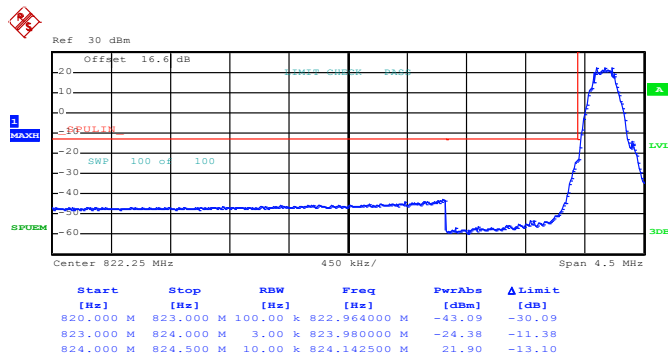


Date: 15.APR.2014 09:33:57



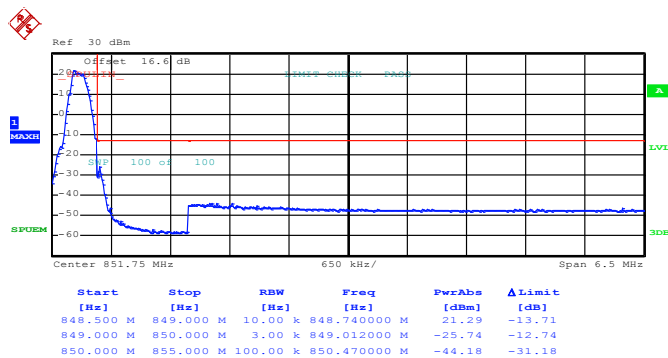
Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
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Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 15.APR.2014 10:13:38

Higher Band Edge Plot on Channel 251 (848.8 MHz)

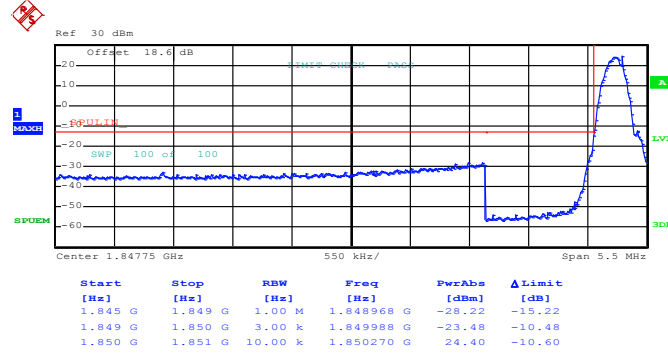


Date: 15.APR.2014 10:09:30



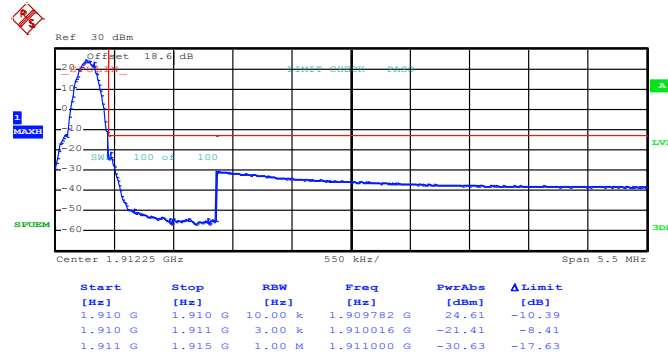
Band :	GSM1900	Test Mode :	GPRS class 8 Link (GMSK)
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Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 10:52:38

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

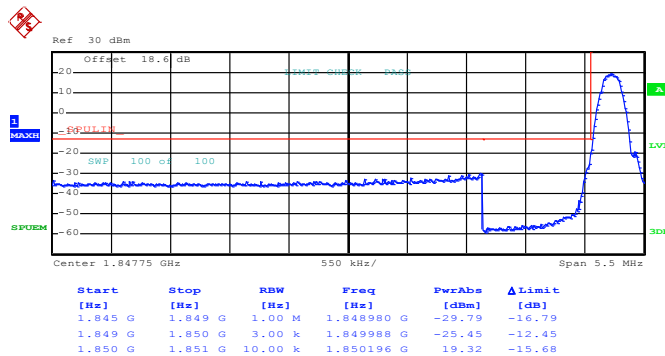


Date: 15.APR.2014 10:49:56



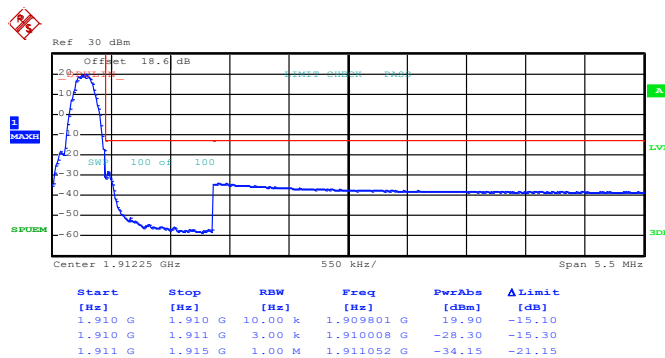
Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
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Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 15.APR.2014 11:27:56

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 15.APR.2014 11:24:29

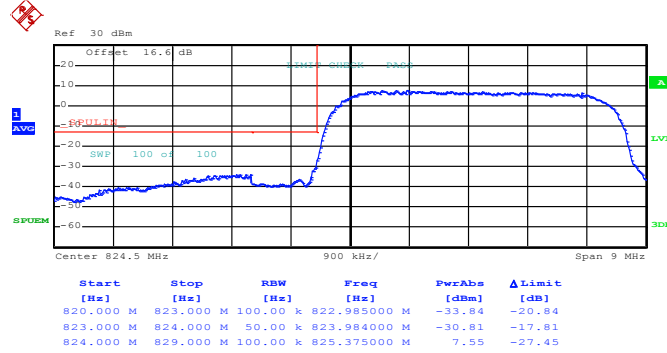


Band : WCDMA Band V

Test Mode :

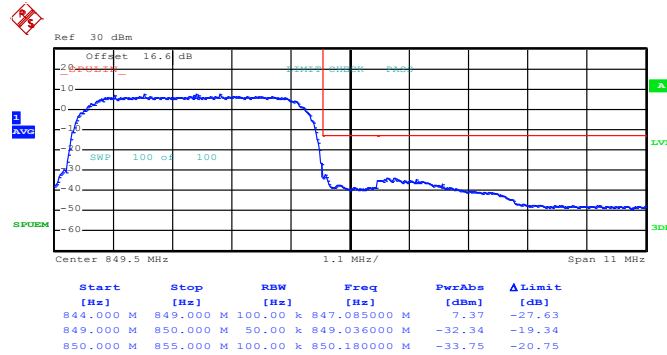
RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 15.APR.2014 15:42:31

Higher Band Edge Plot on Channel 4233 (846.6 MHz)

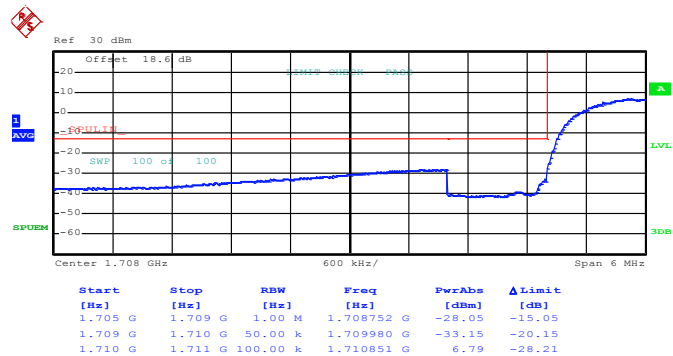


Date: 15.APR.2014 15:38:11



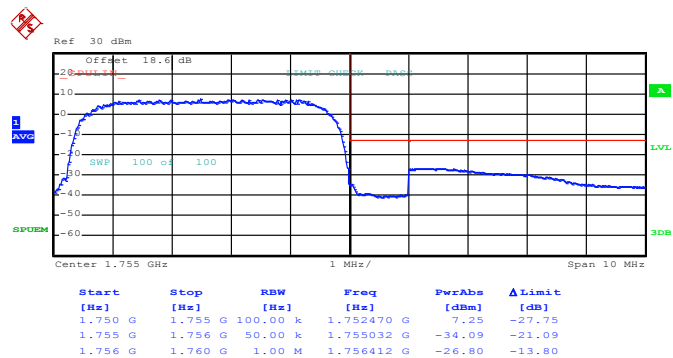
Band :	WCDMA Band IV	Test Mode :	RMC 12.2Kbps Link (QPSK)
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Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 15.APR.2014 14:52:26

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)

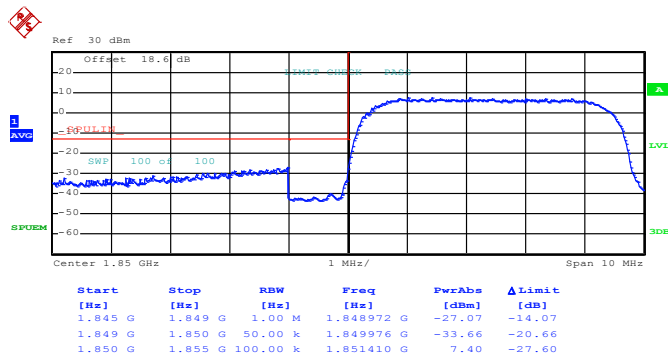


Date: 15.APR.2014 14:49:20



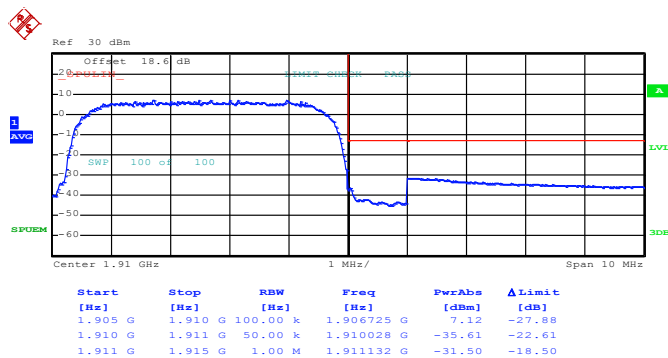
Band : WCDMA Band II Test Mode : RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 15.APR.2014 13:55:31

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 15.APR.2014 13:53:05

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

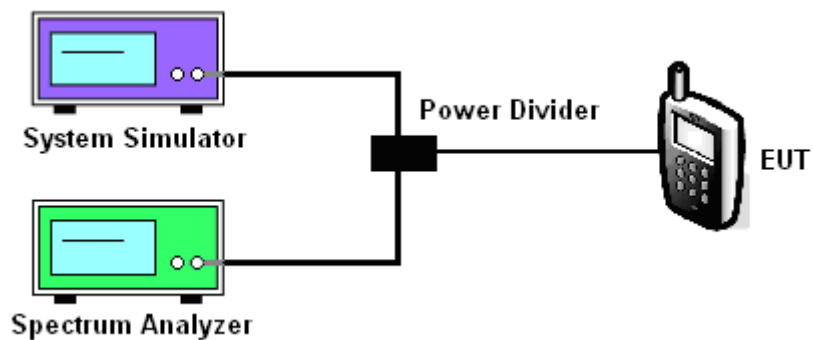
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

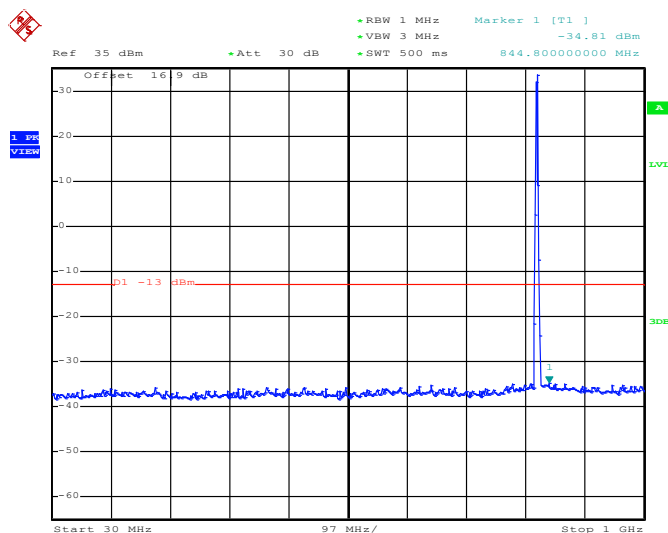
3.6.4 Test Setup



3.6.5 Test Result (Plots) of Conducted Spurious Emission

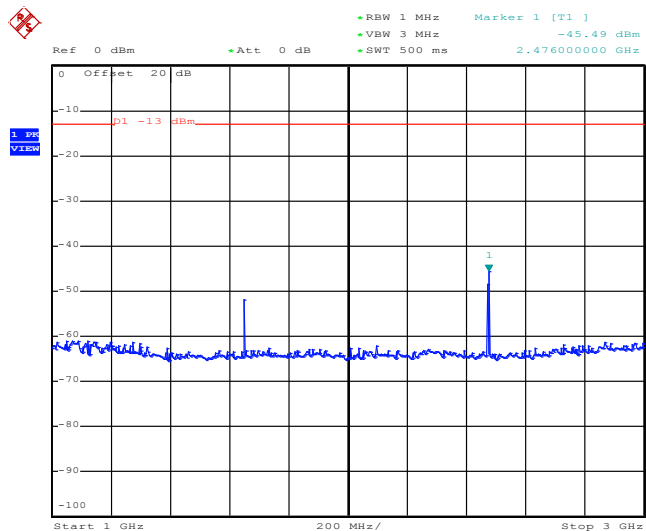
Band :	GSM850	Channel :	CH128
Test Mode :	GSM Link (GMSK)	Frequency :	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 09:53:04

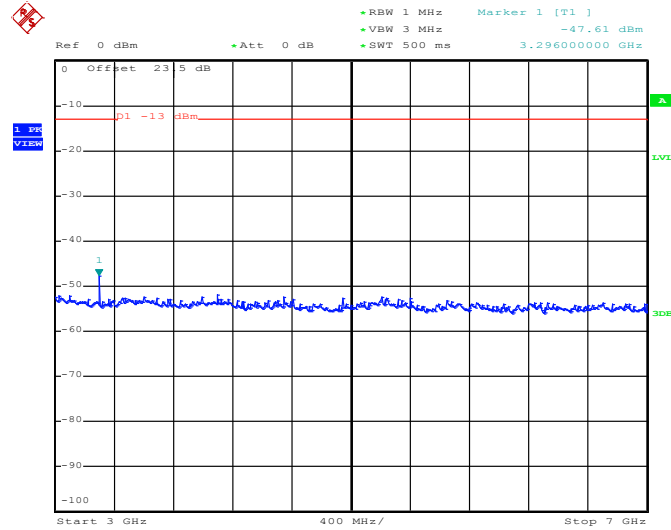
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 09:52:01

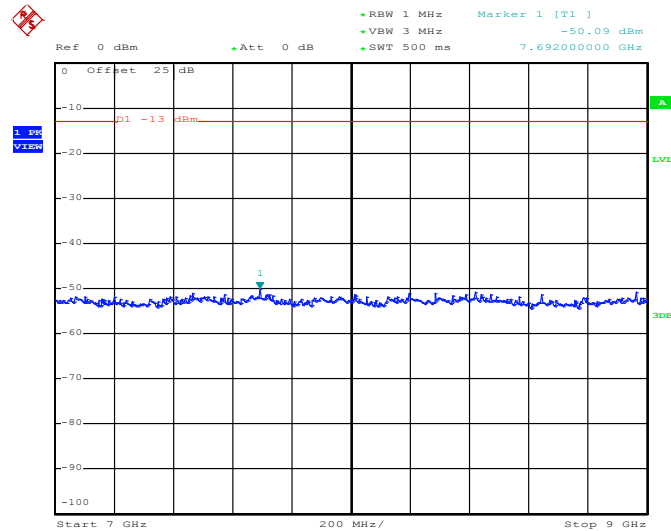


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 09:52:09

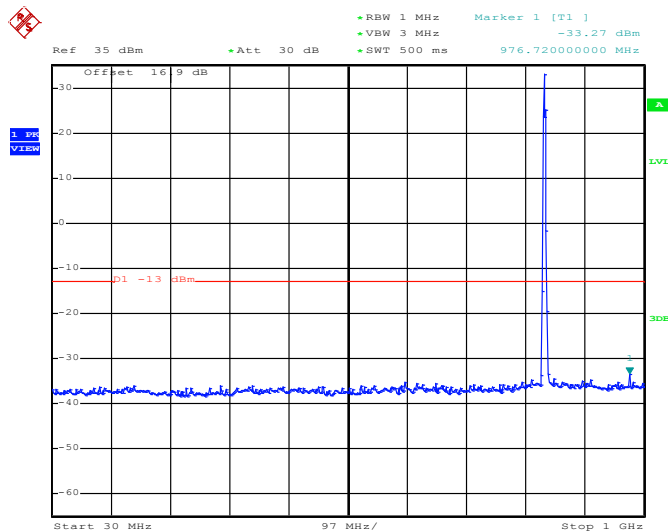
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



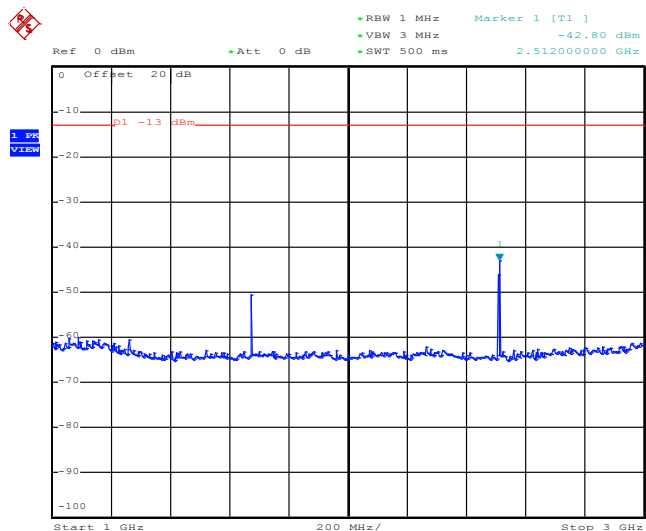
Date: 15.APR.2014 09:52:18



Band :	GSM850	Channel :	CH189
Test Mode :	GSM Link (GMSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

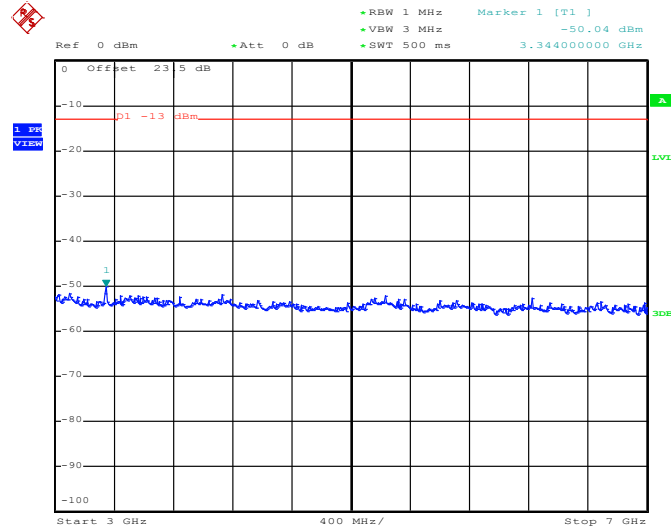
Date: 15.APR.2014 09:48:21

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 09:49:28

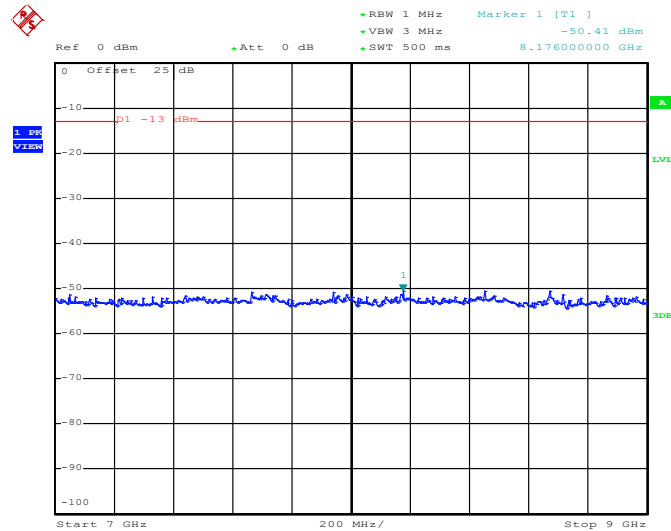


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 09:49:36

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

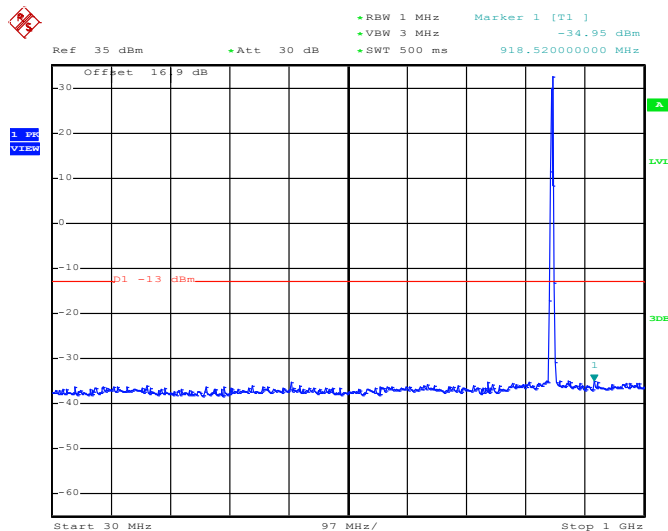


Date: 15.APR.2014 09:49:45



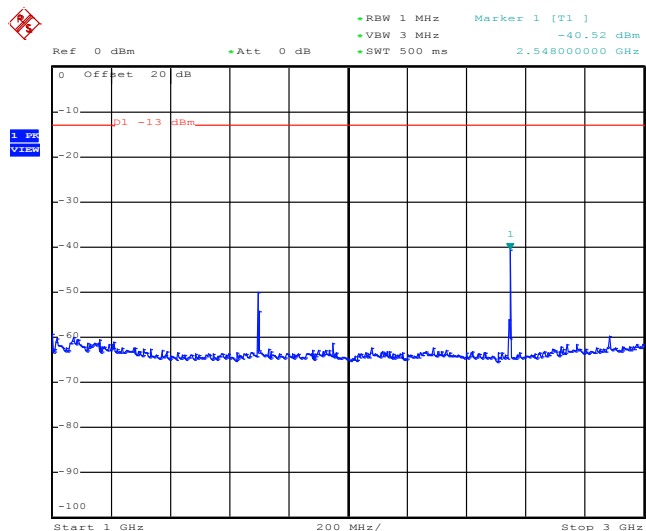
Band :	GSM850	Channel :	CH251
Test Mode :	GSM Link (GMSK)	Frequency :	848.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 09:54:56

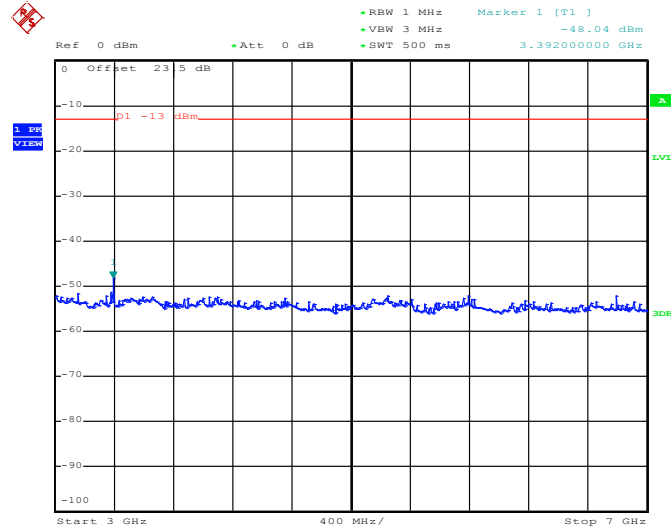
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 09:55:07

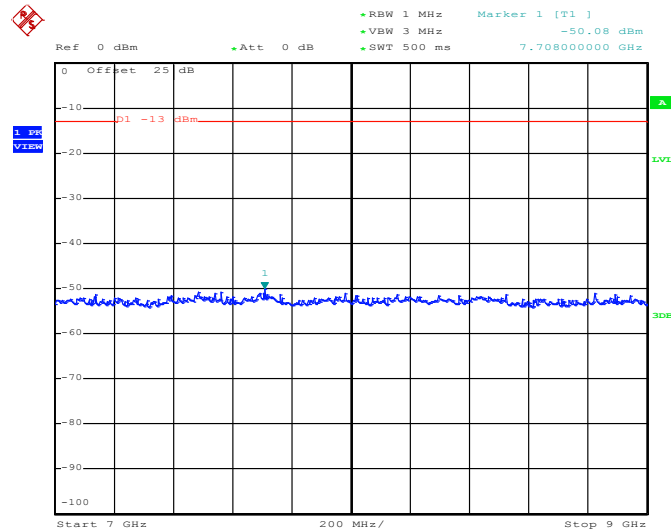


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 09:55:15

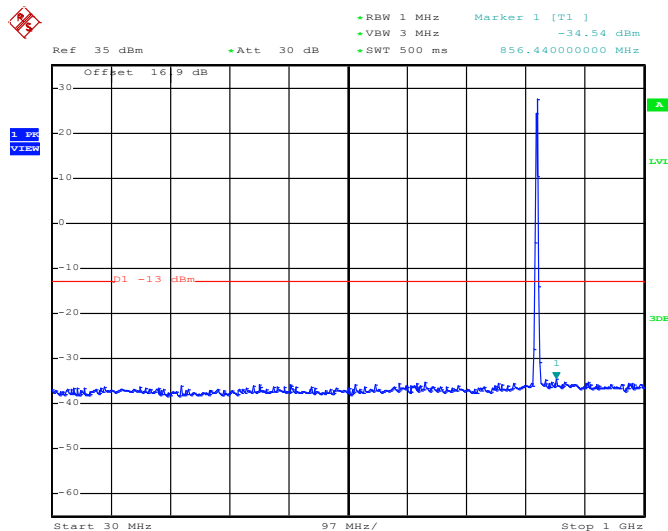
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



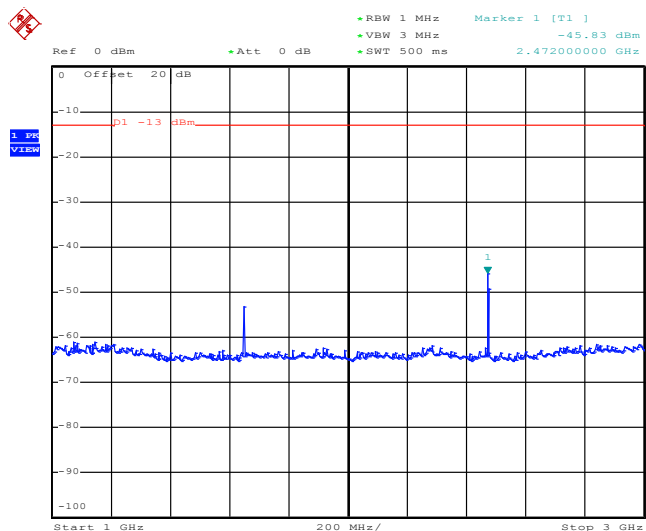
Date: 15.APR.2014 09:55:24



Band :	GSM850	Channel :	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	824.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

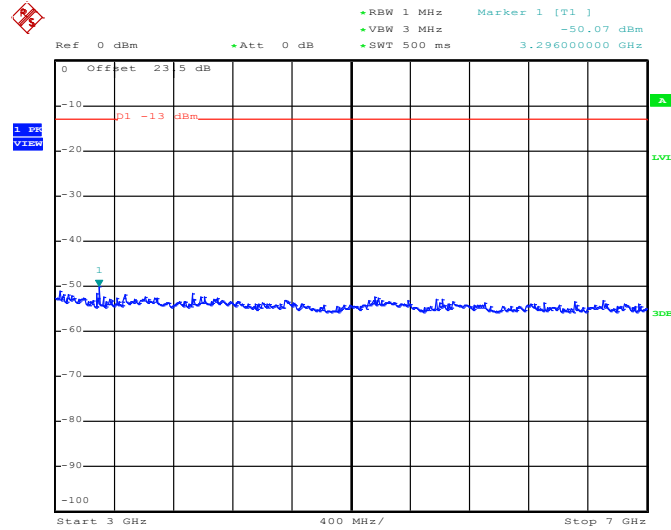
Date: 15.APR.2014 10:24:06

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 10:24:18

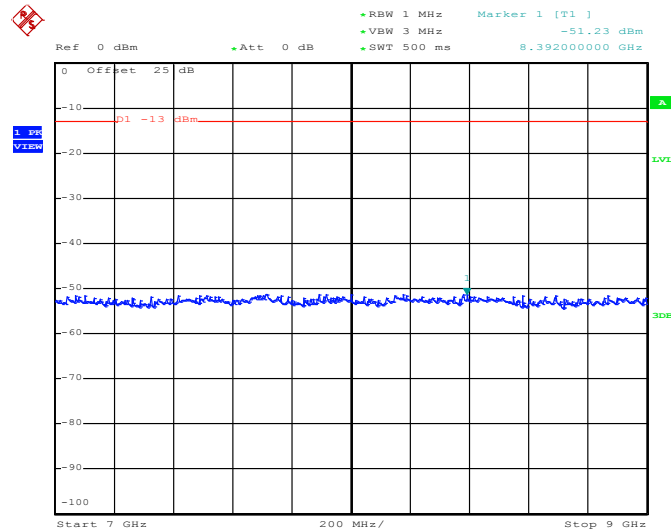


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 10:24:26

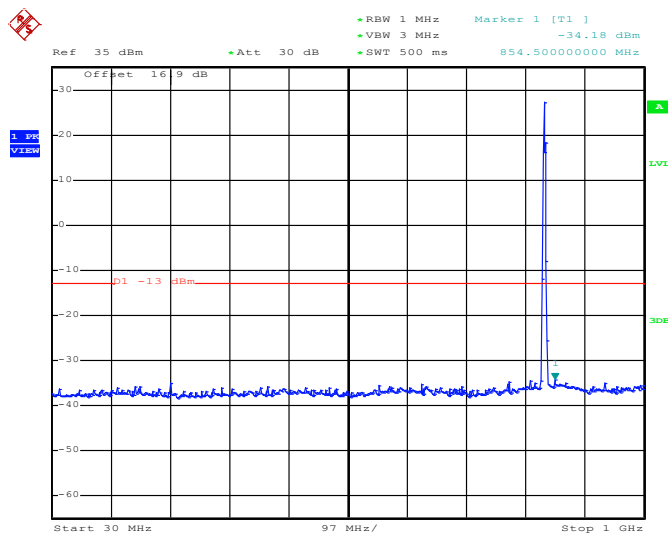
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



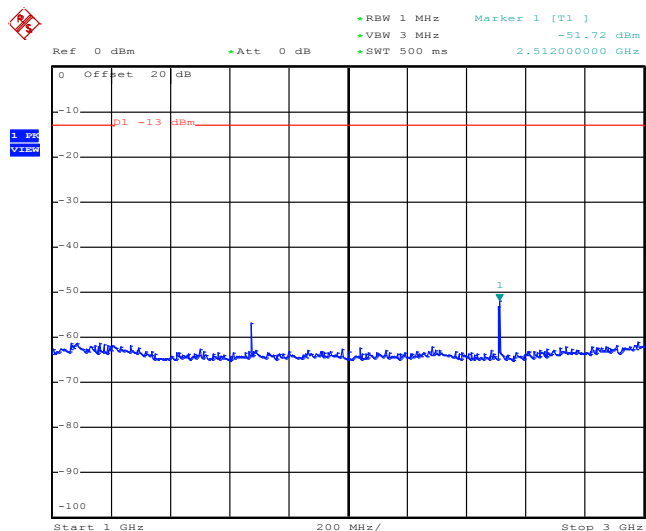
Date: 15.APR.2014 10:24:34



Band :	GSM850	Channel :	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

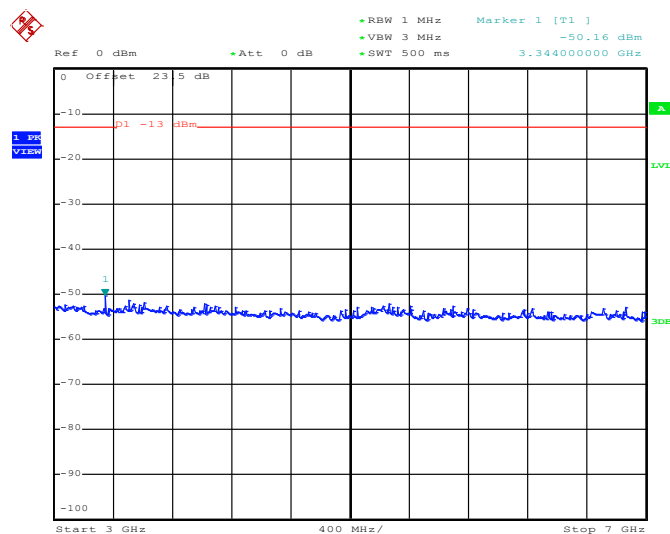
Date: 15.APR.2014 10:22:09

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 10:22:23

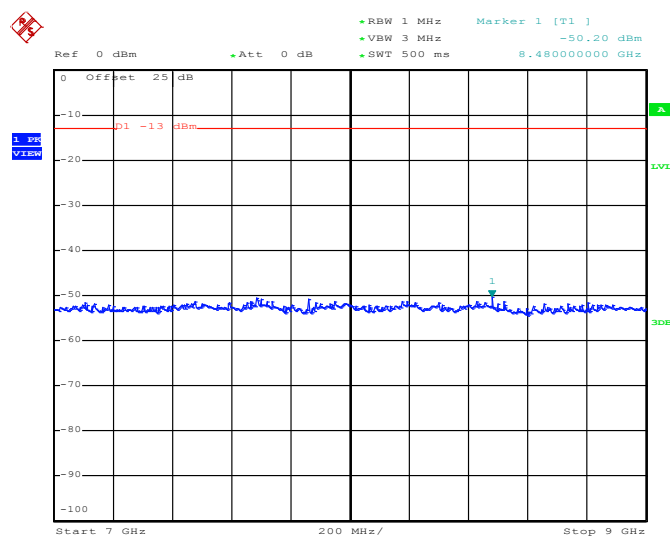


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 10:22:31

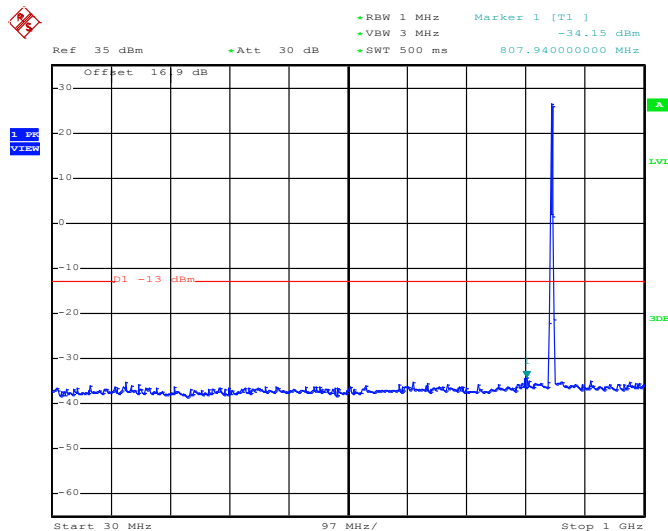
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



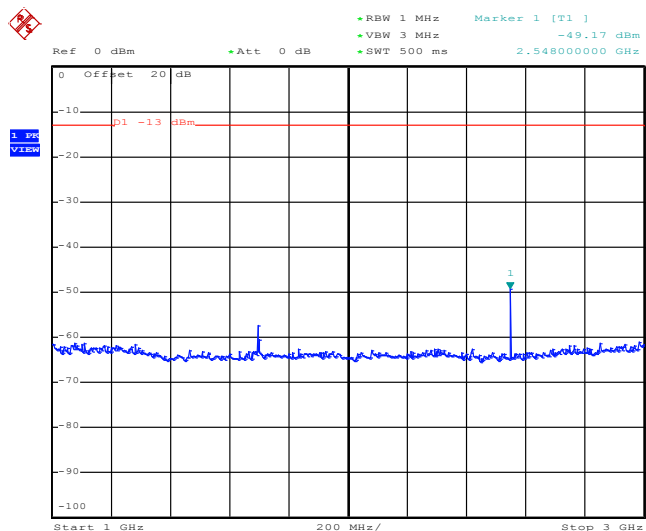
Date: 15.APR.2014 10:22:39



Band :	GSM850	Channel :	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	848.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

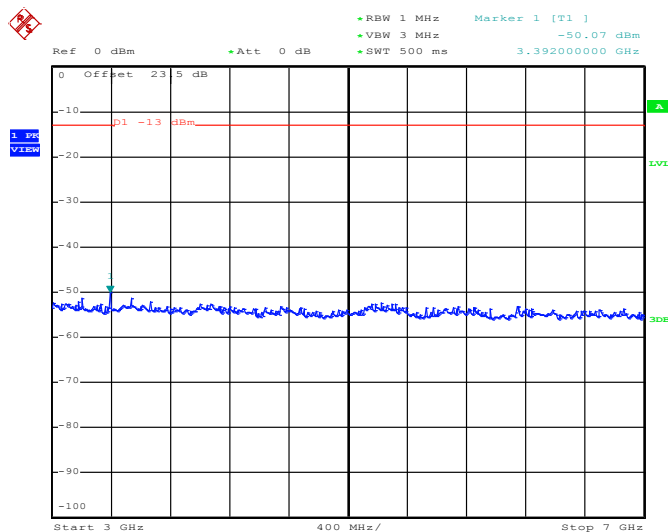
Date: 15.APR.2014 10:28:55

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 10:29:07

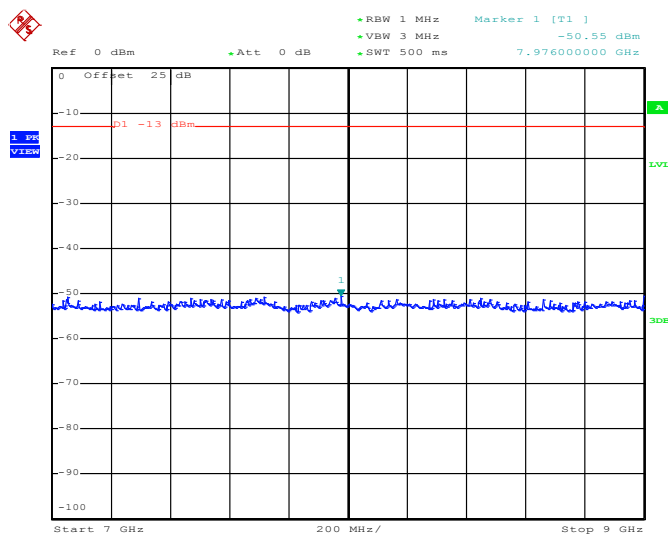


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 10:29:15

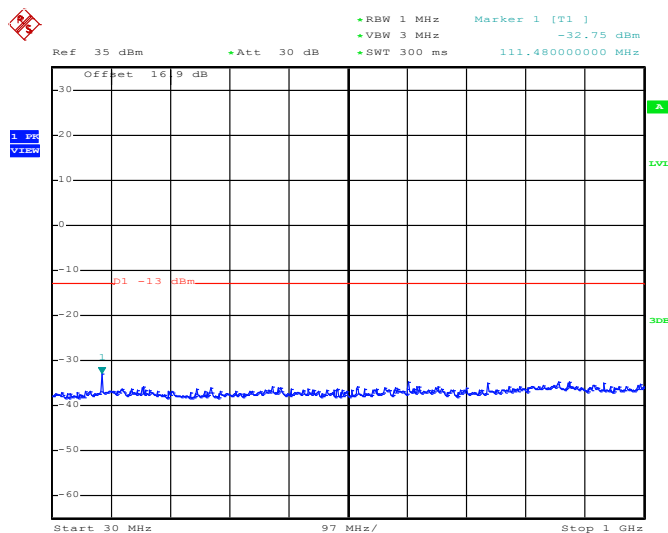
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



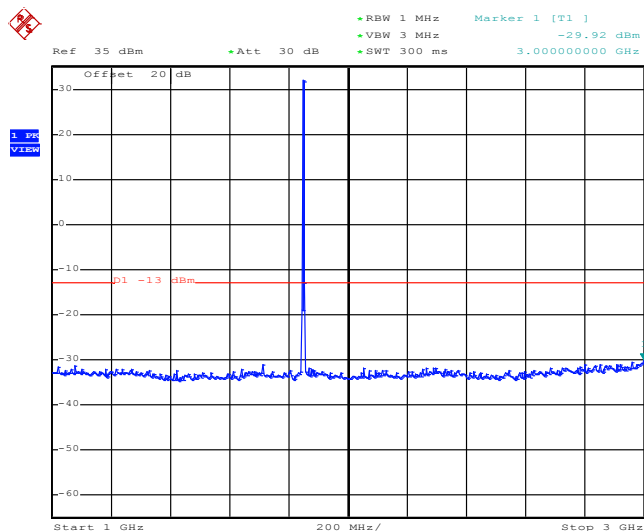
Date: 15.APR.2014 10:29:23



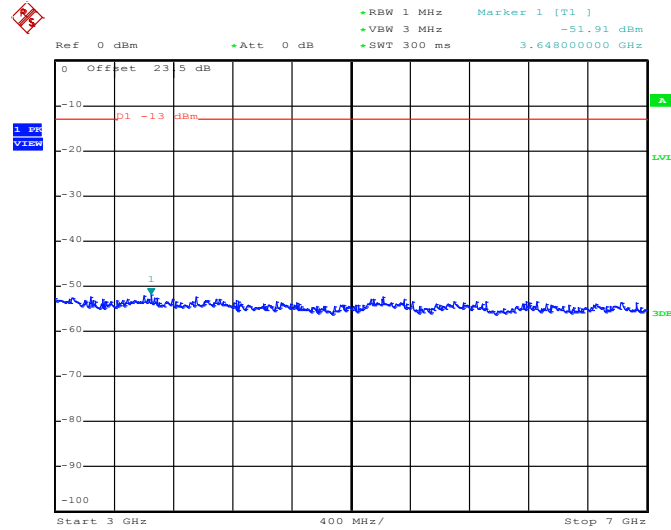
Band :	GSM1900	Channel :	CH512
Test Mode :	GPRS class 8 Link (GMSK)	Frequency :	1850.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

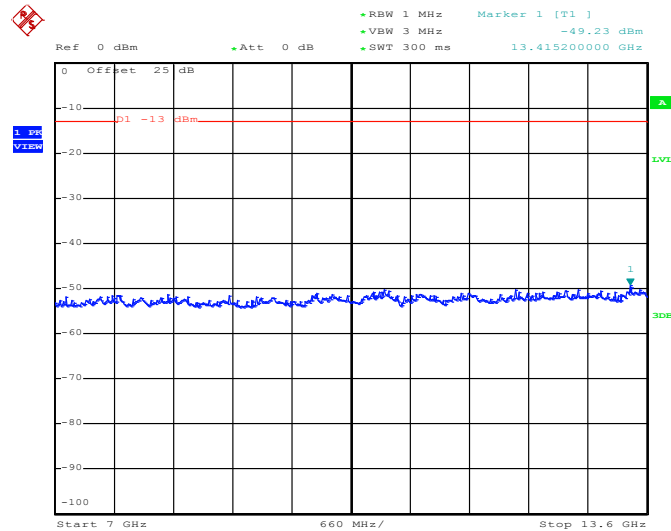
Date: 15.APR.2014 11:01:44

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:01:52

Conducted Spurious Emission Plot between 3GHz ~ 7GHz


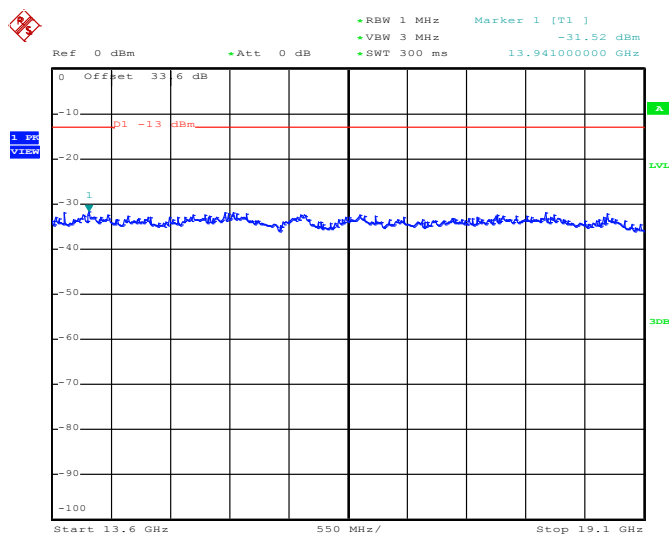
Date: 15.APR.2014 11:02:05

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz


Date: 15.APR.2014 11:02:13



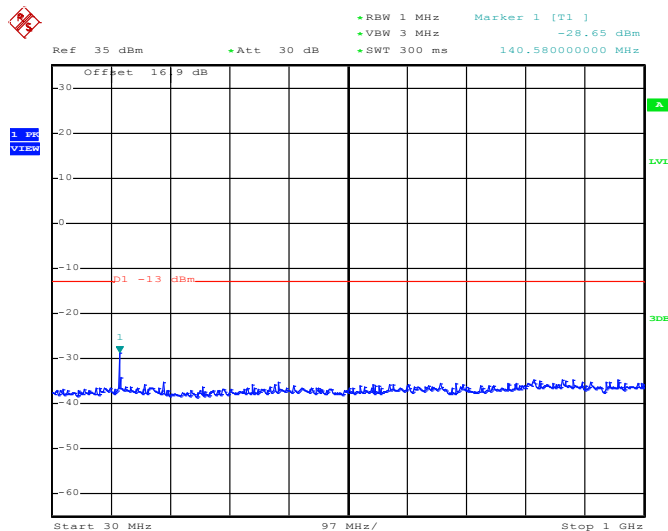
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



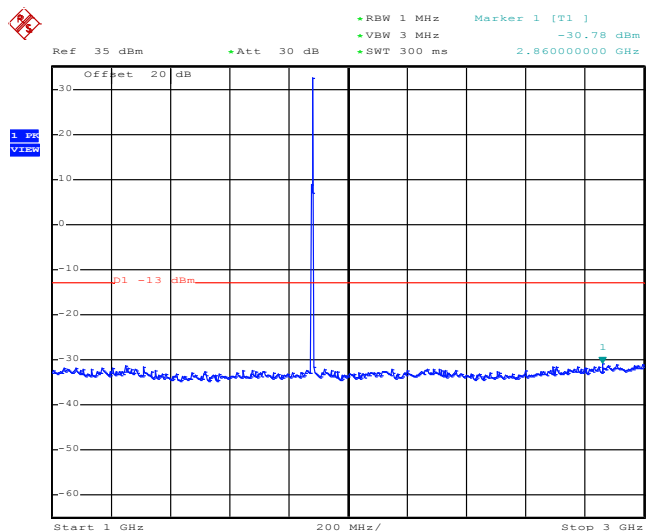
Date: 15.APR.2014 11:02:22



Band :	GSM1900	Channel :	CH661
Test Mode :	GPRS class 8 Link (GMSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

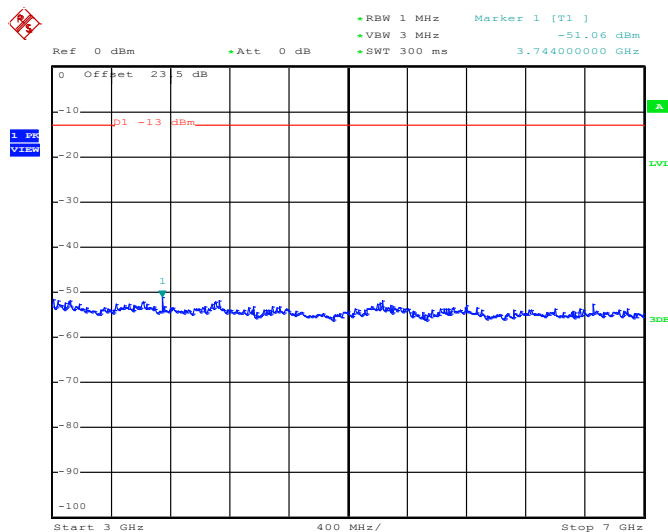
Date: 15.APR.2014 11:04:58

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:05:06

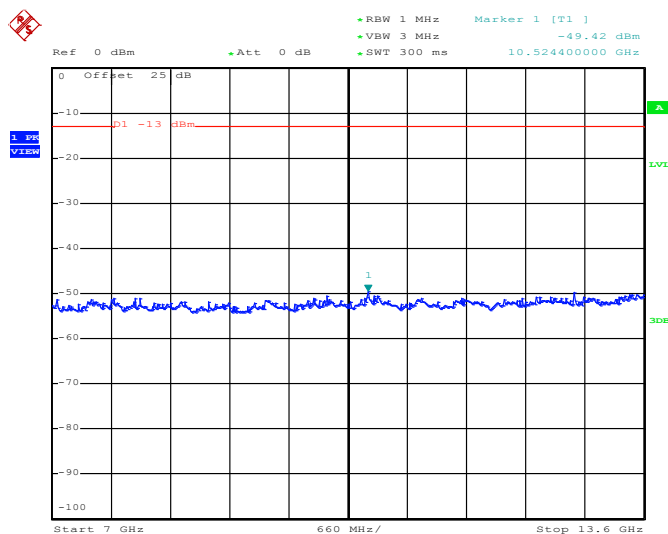


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 11:05:18

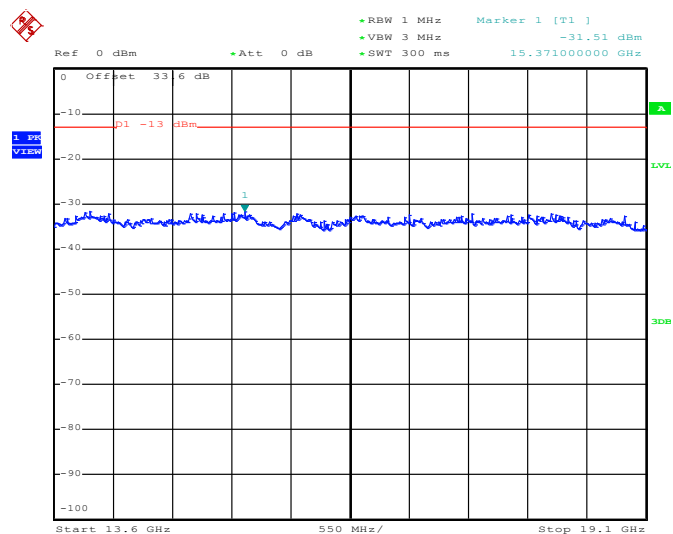
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 11:05:26



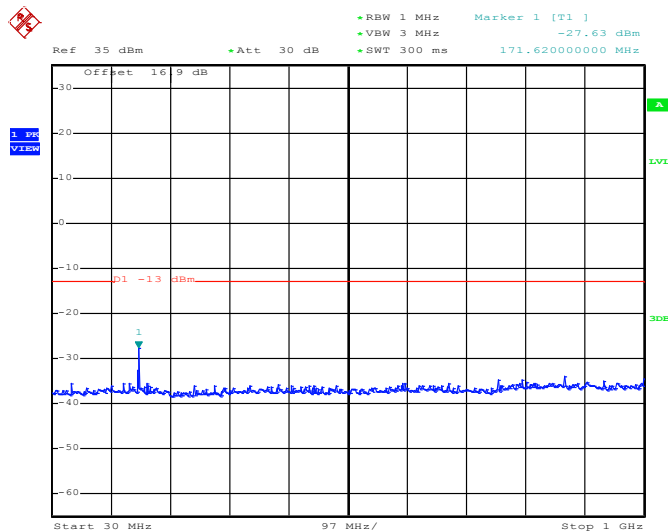
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



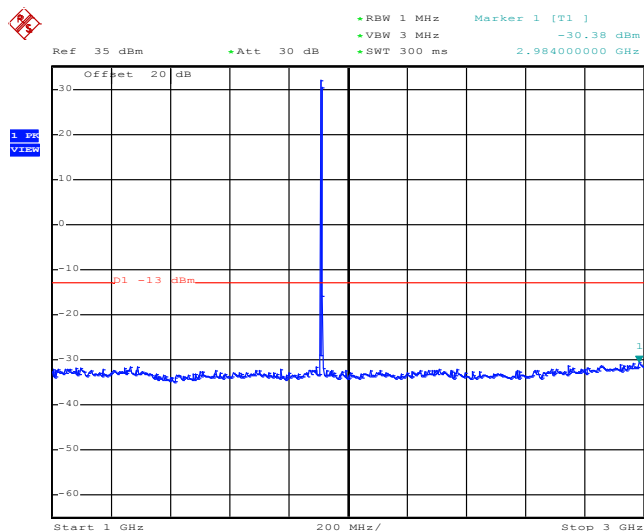
Date: 15.APR.2014 11:05:35



Band :	GSM1900	Channel :	CH810
Test Mode :	GPRS class 8 Link (GMSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

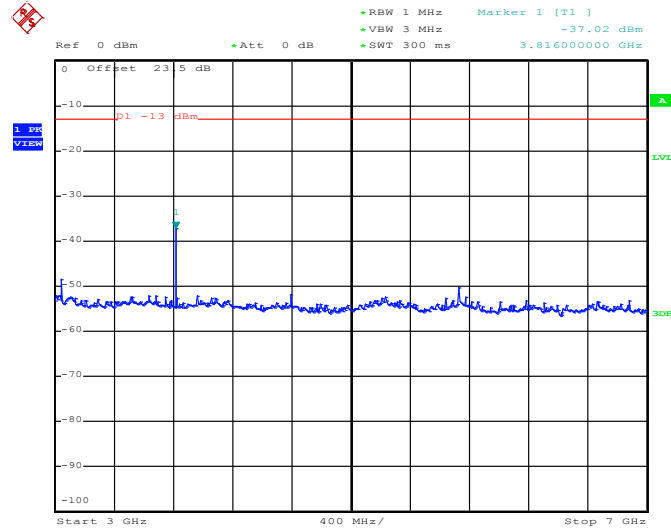
Date: 15.APR.2014 11:07:15

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:07:24

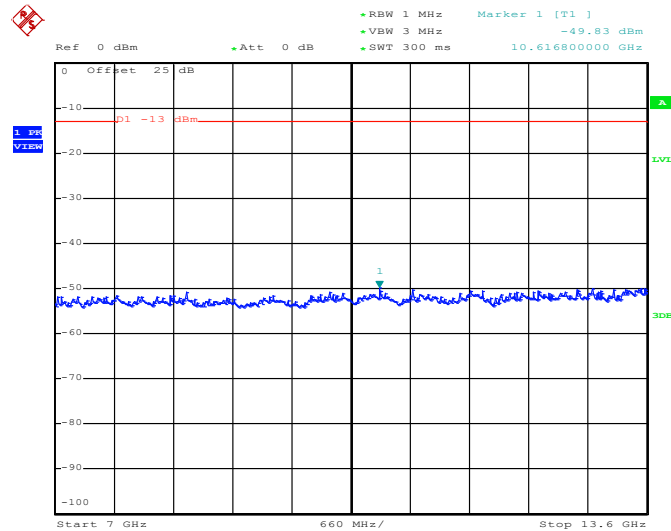


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 11:07:35

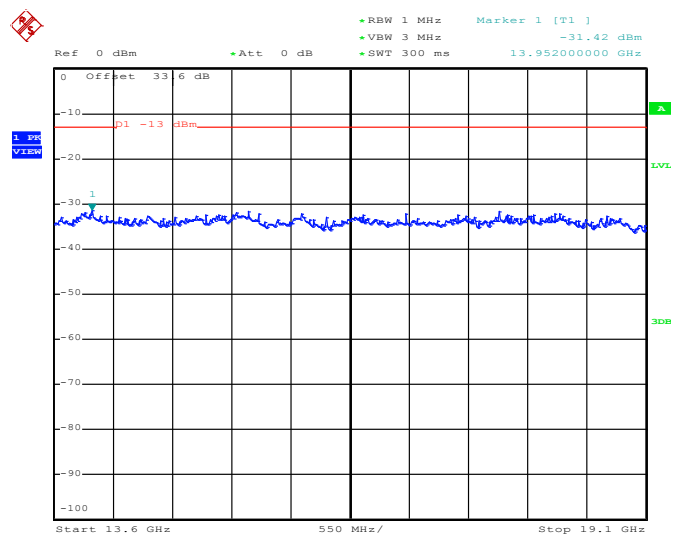
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 11:07:43



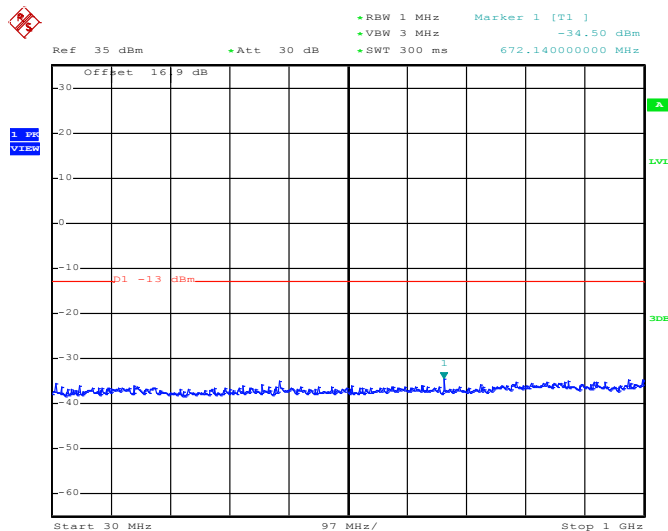
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



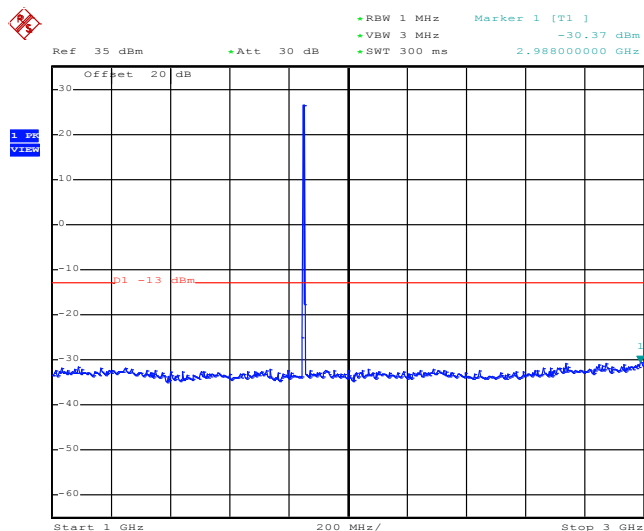
Date: 15.APR.2014 11:07:51



Band :	GSM1900	Channel :	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1850.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

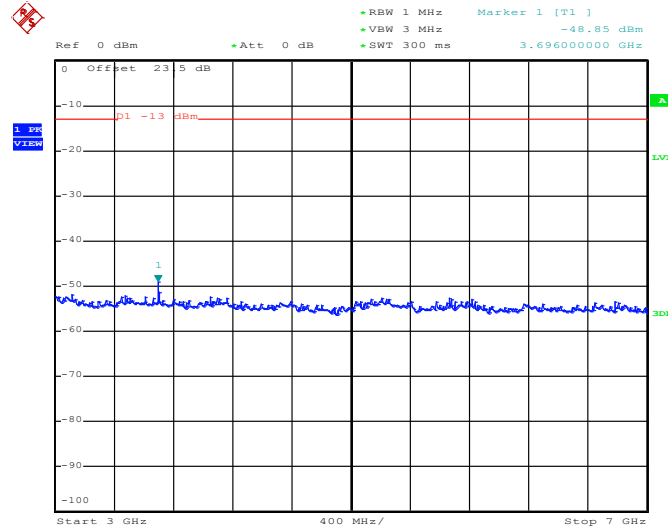
Date: 15.APR.2014 11:40:04

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:40:12

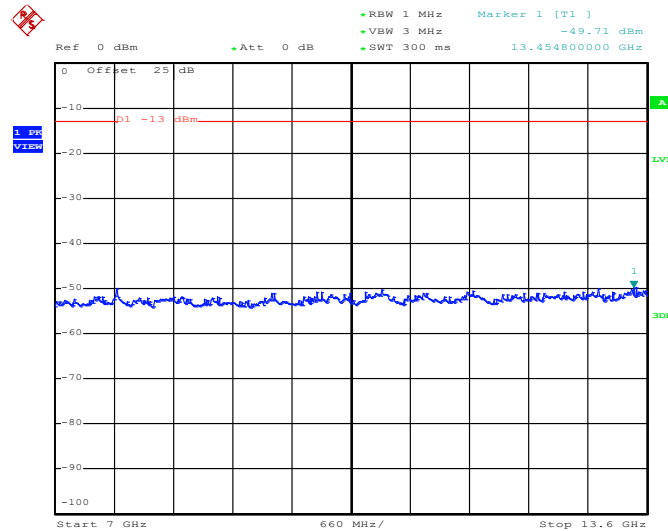


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



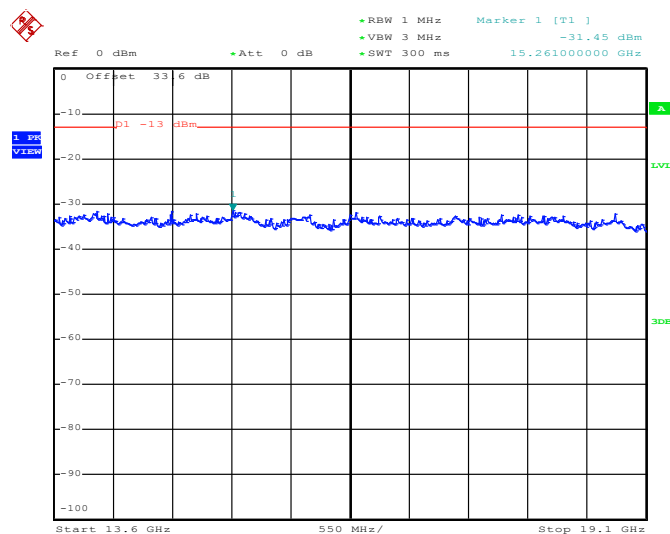
Date: 15.APR.2014 11:40:23

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 11:40:31

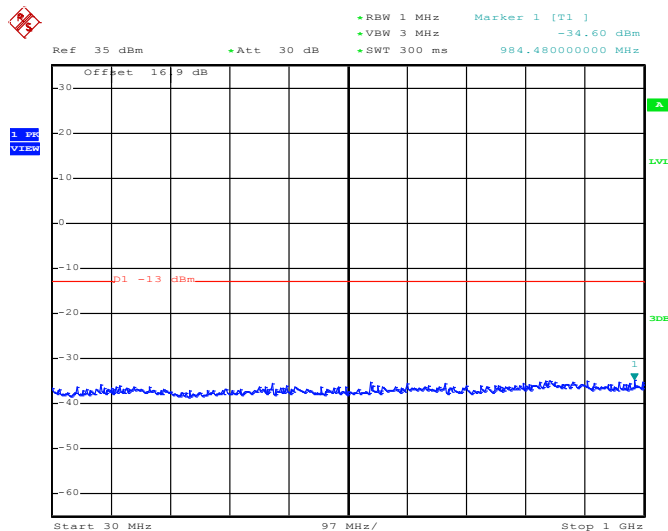
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



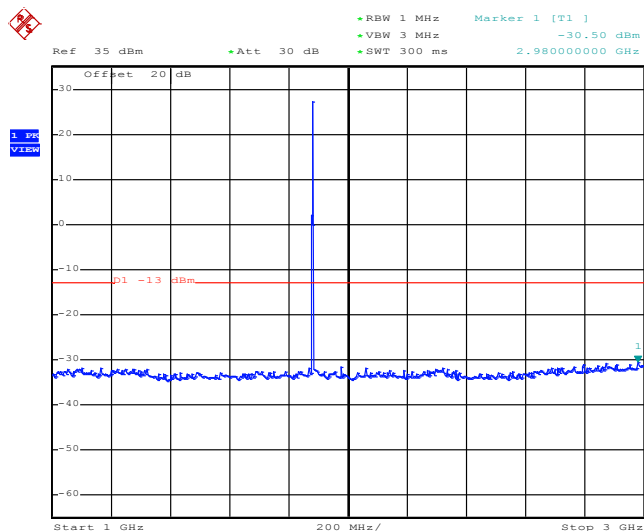
Date: 15.APR.2014 11:40:40



Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

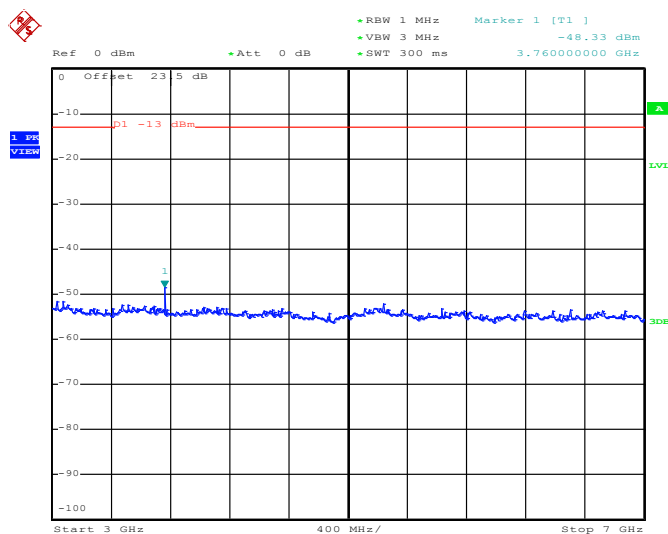
Date: 15.APR.2014 11:37:39

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:37:47

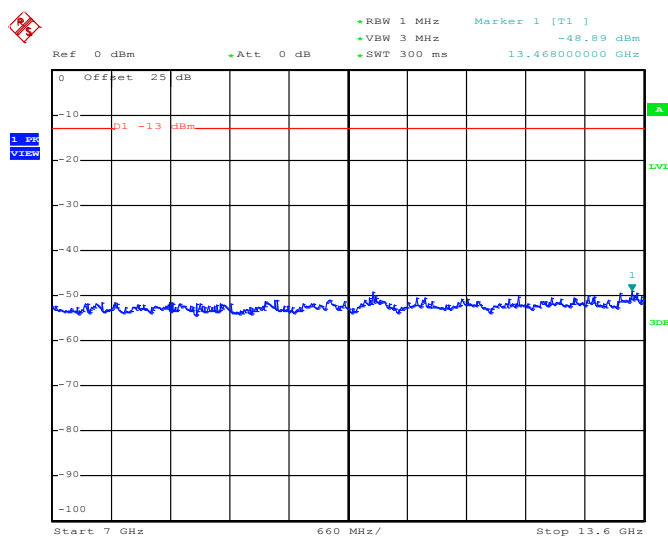


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 11:37:58

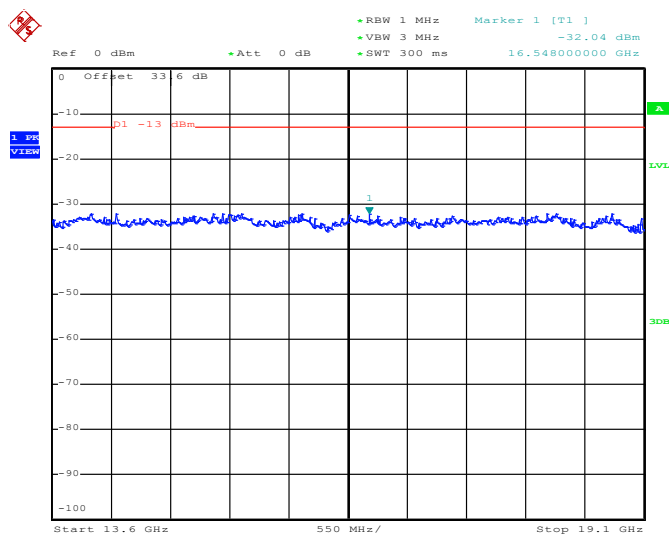
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 11:38:07



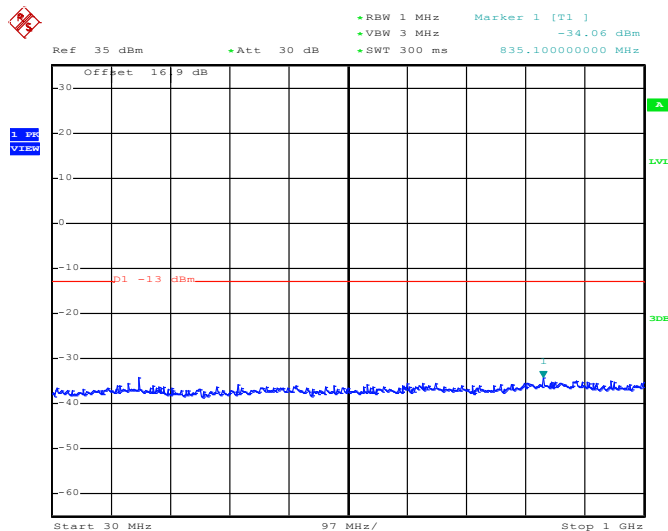
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



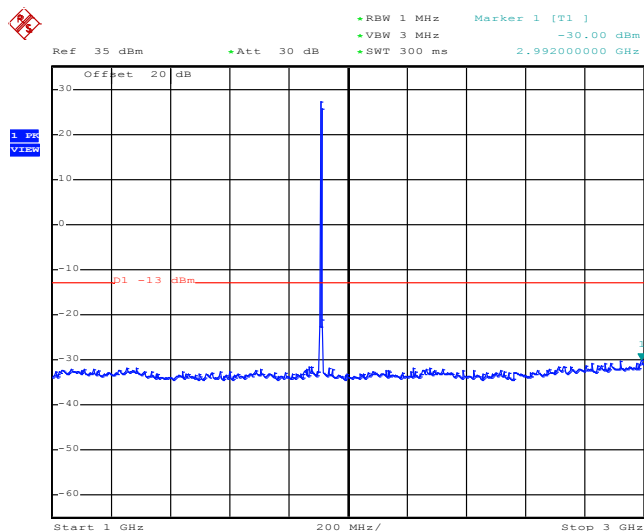
Date: 15.APR.2014 11:38:15



Band :	GSM1900	Channel :	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

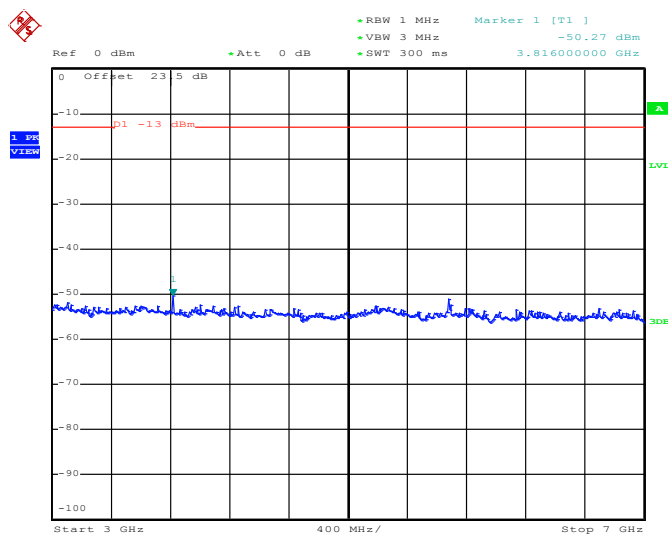
Date: 15.APR.2014 11:42:31

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 11:42:40

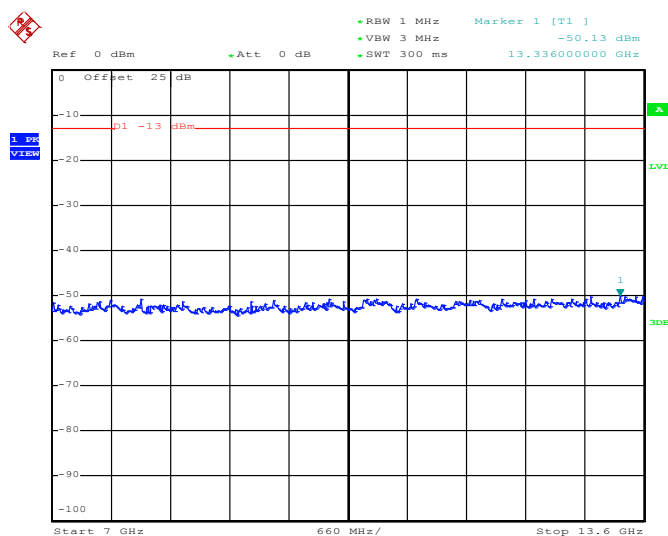


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 11:42:50

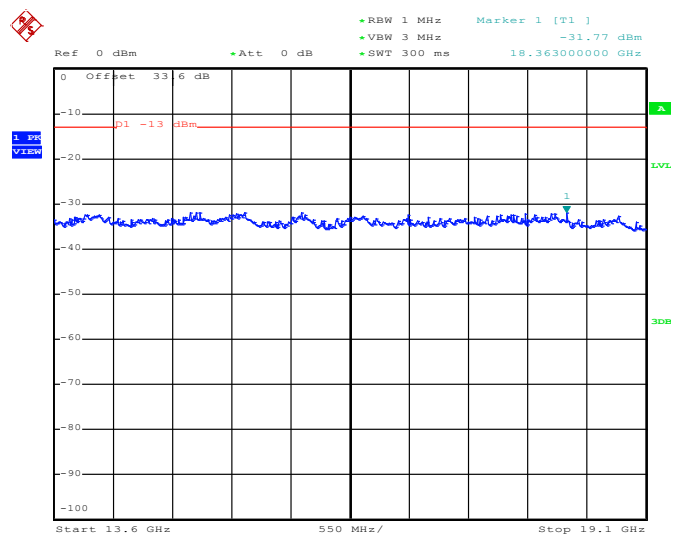
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 11:42:59



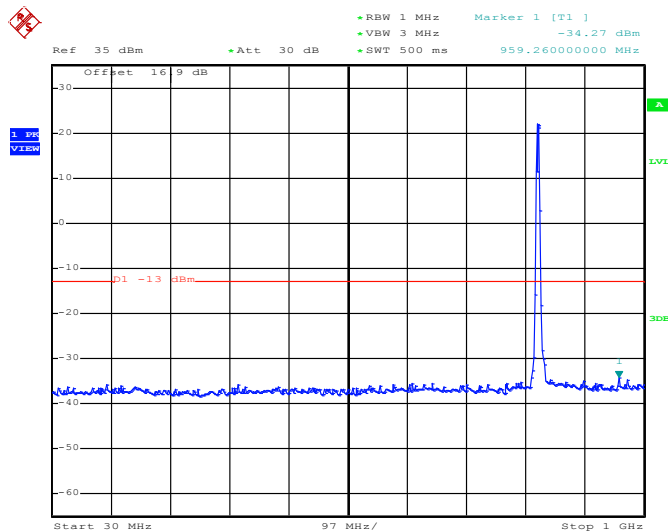
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



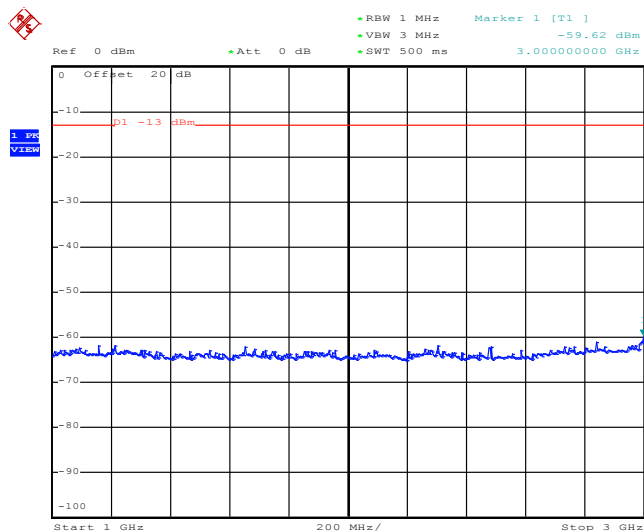
Date: 15.APR.2014 11:43:07



Band :	WCDMA Band V	Channel :	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	826.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

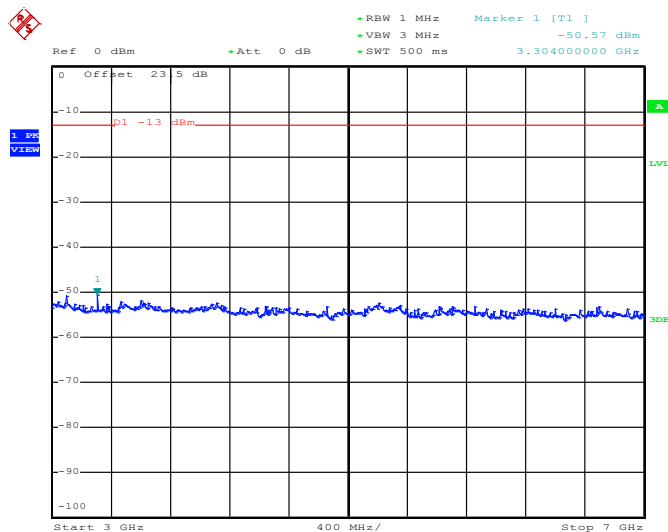
Date: 15.APR.2014 15:47:35

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 15:47:47

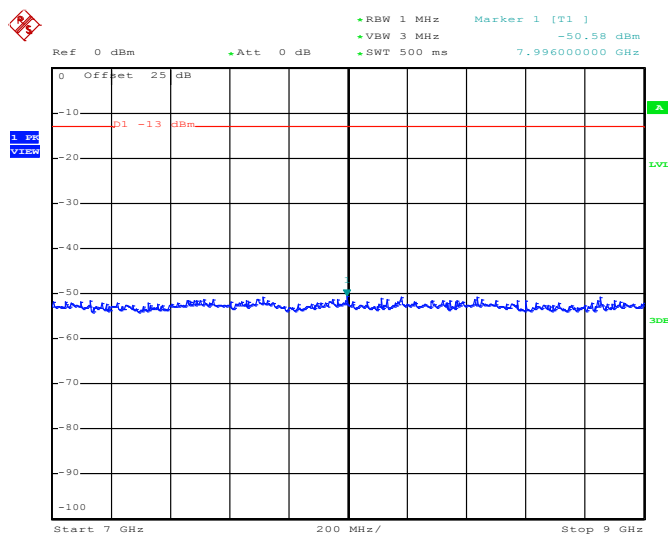


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 15:47:55

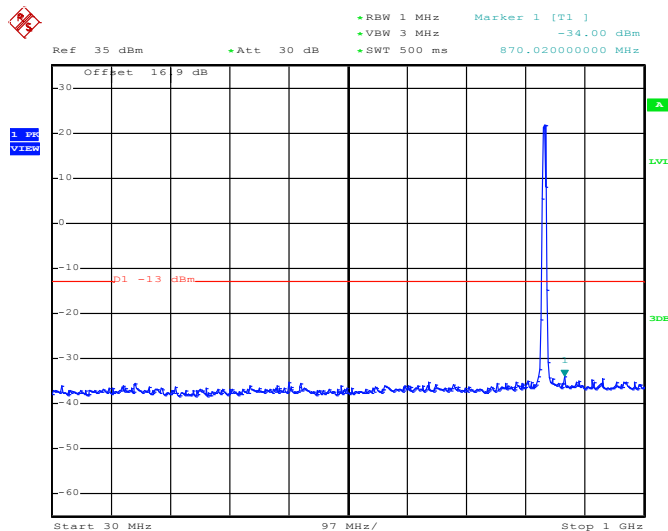
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



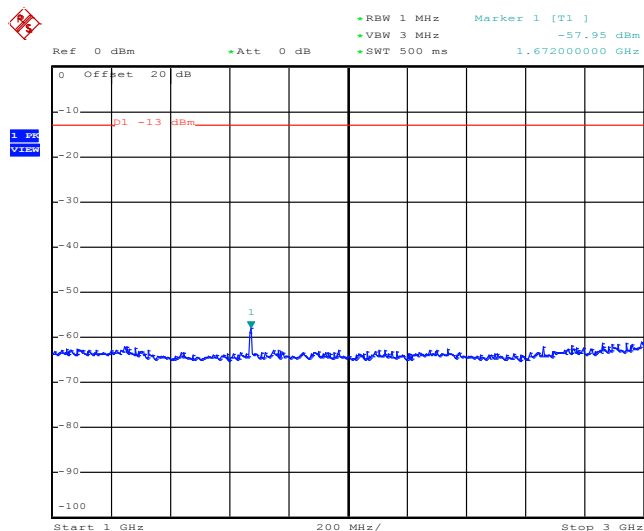
Date: 15.APR.2014 15:48:04



Band :	WCDMA Band V	Channel :	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

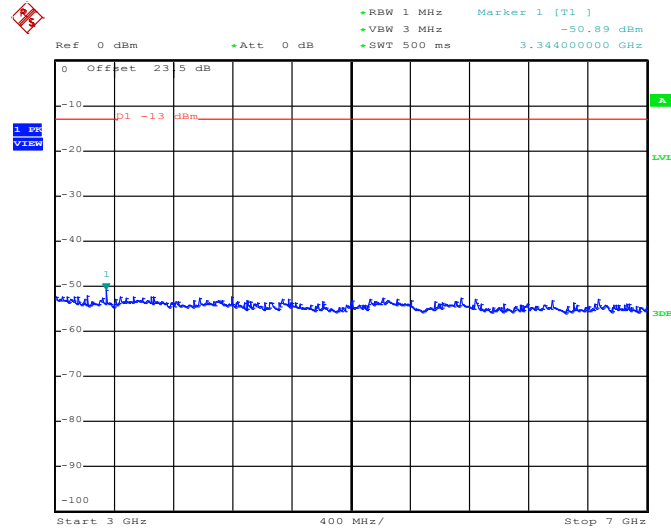
Date: 15.APR.2014 15:44:45

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 15:44:56

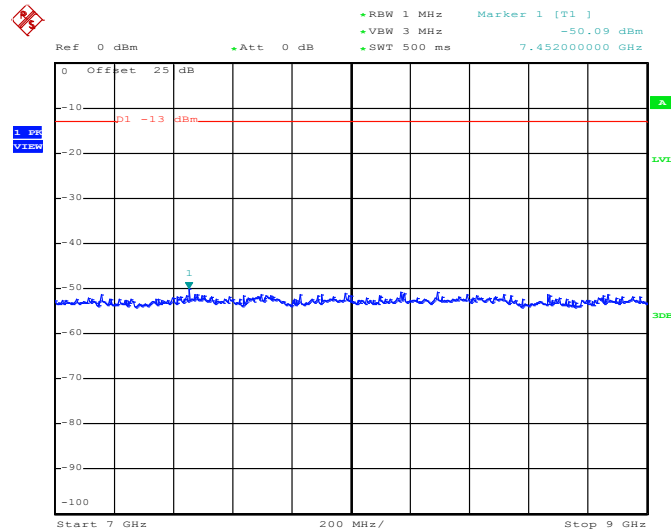


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 15:45:04

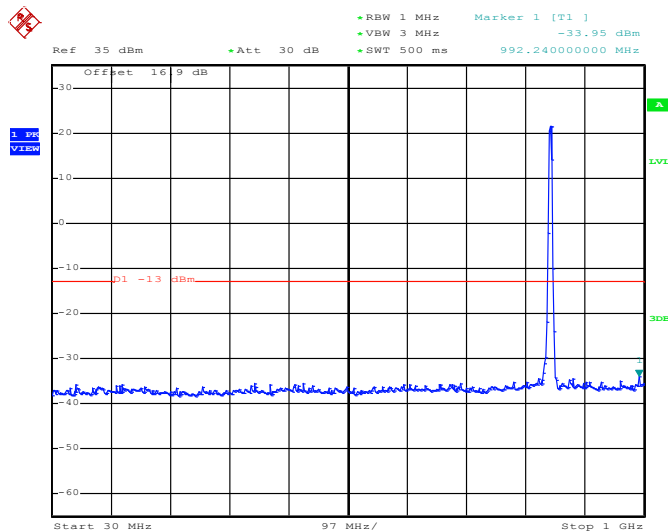
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



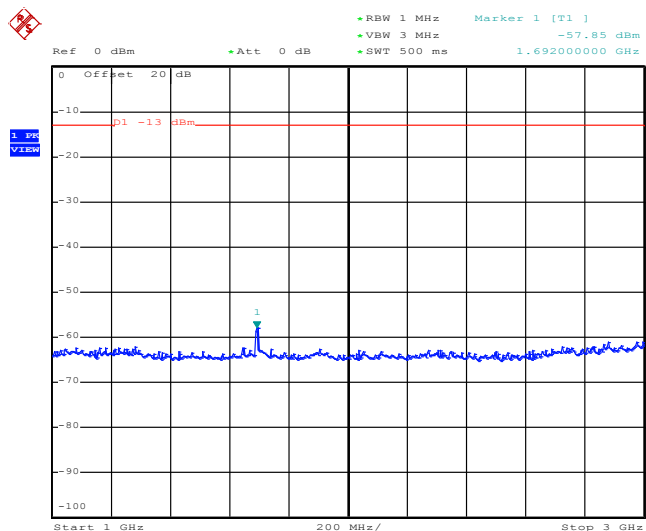
Date: 15.APR.2014 15:45:12



Band :	WCDMA Band V	Channel :	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	846.6MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

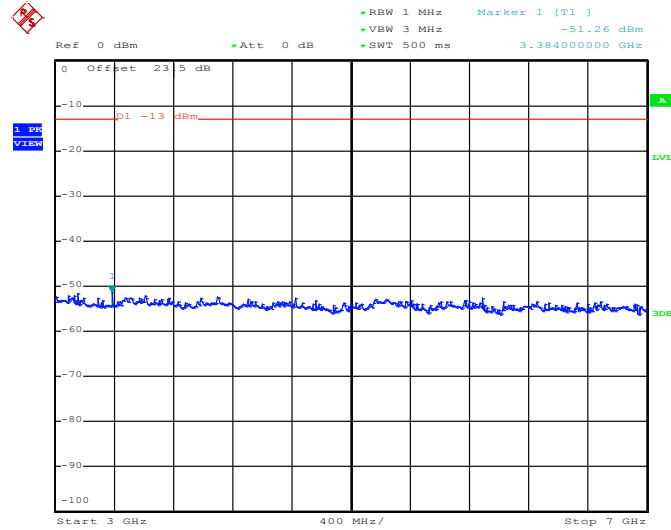
Date: 15.APR.2014 15:48:55

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 15:49:06

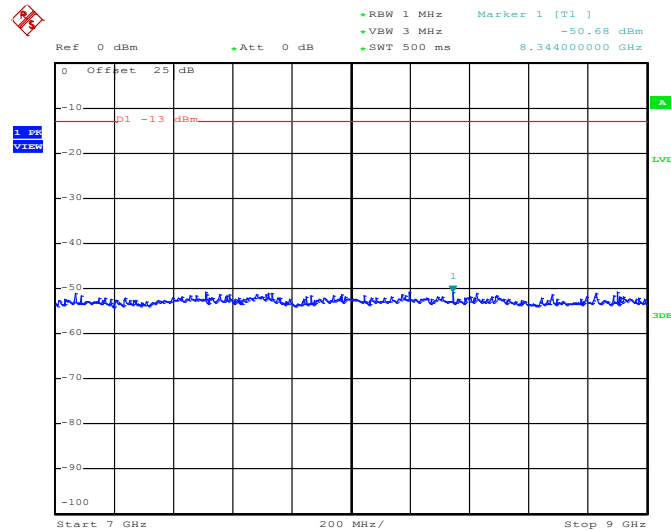


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 15:49:15

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

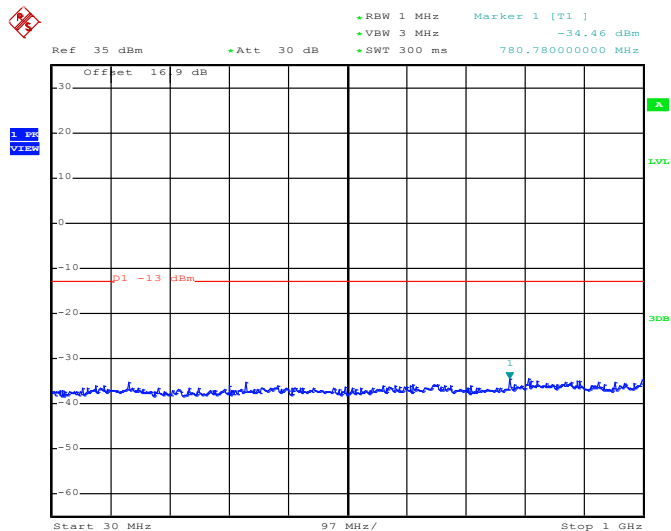


Date: 15.APR.2014 15:49:23



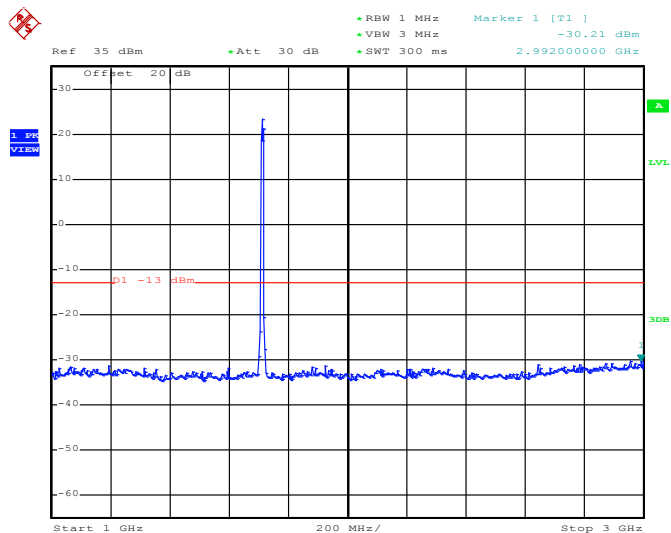
Band :	WCDMA Band IV	Channel :	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1712.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 15:12:30

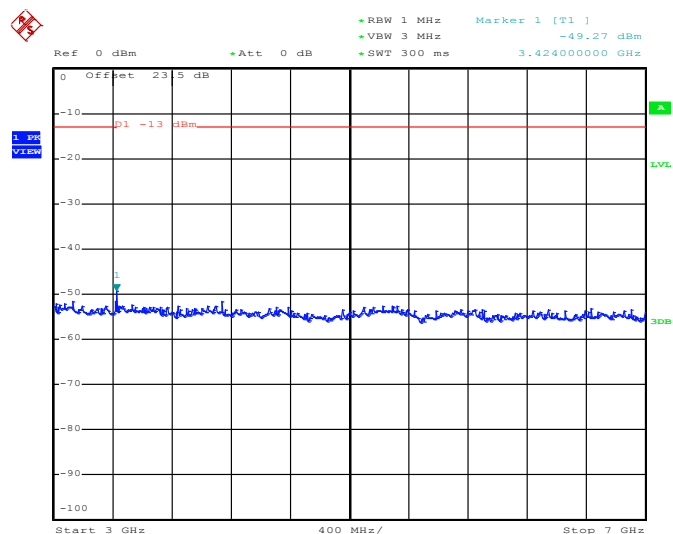
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 15:12:38

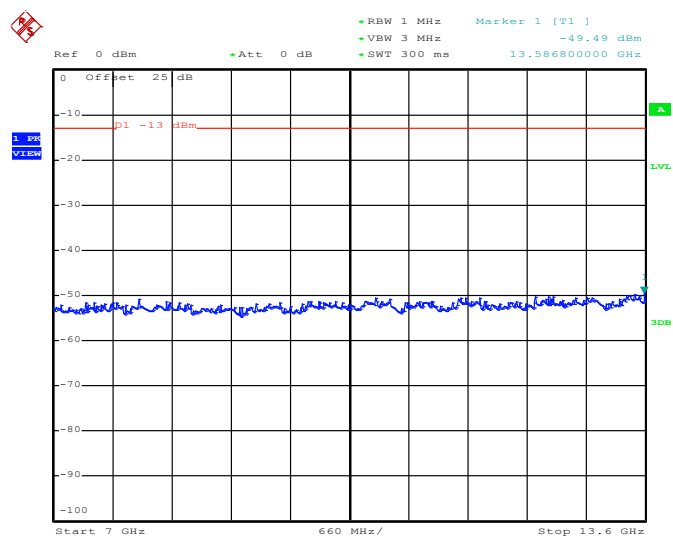


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 15:12:49

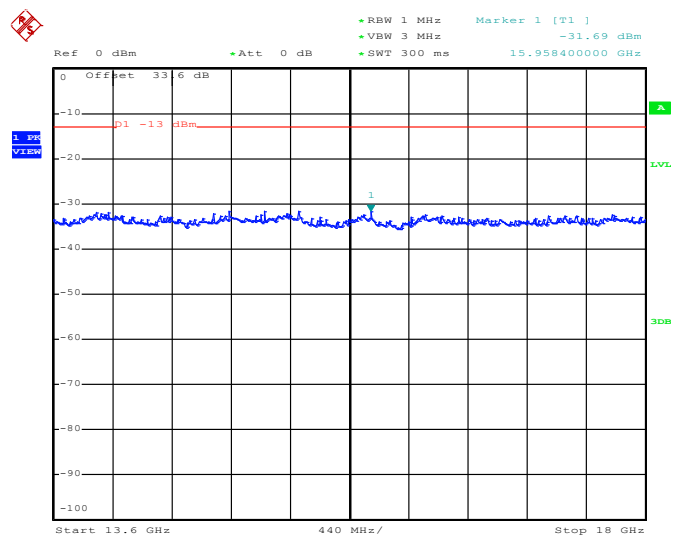
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 15:12:57



Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz

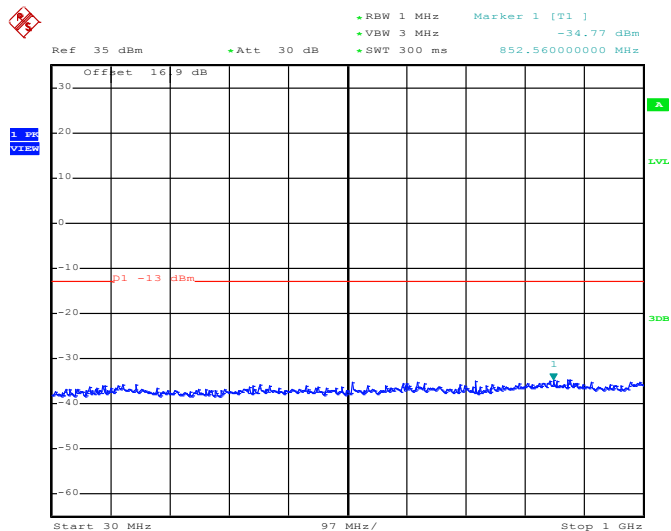


Date: 15.APR.2014 15:13:05



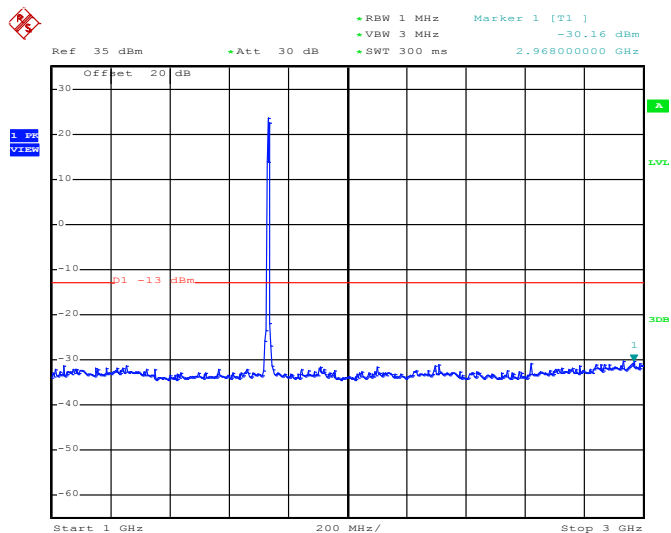
Band :	WCDMA Band IV	Channel :	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1732.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 15:10:47

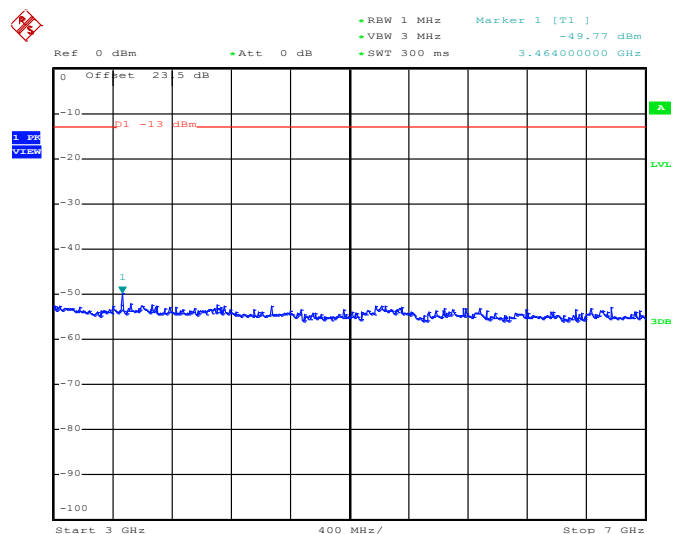
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 15:10:55

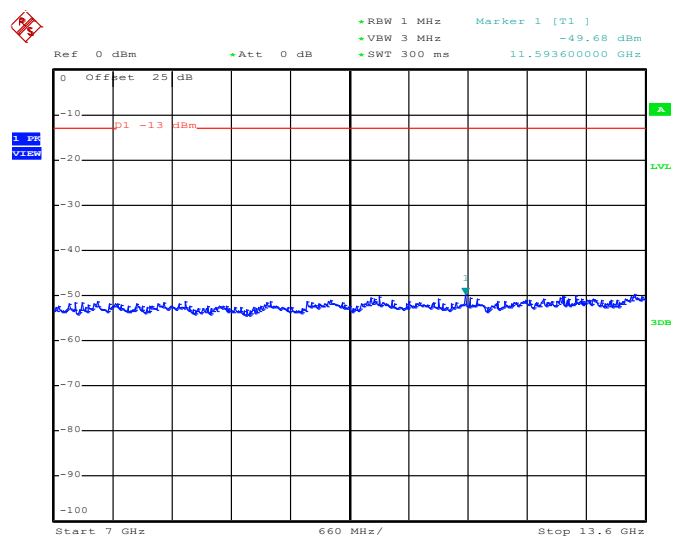


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



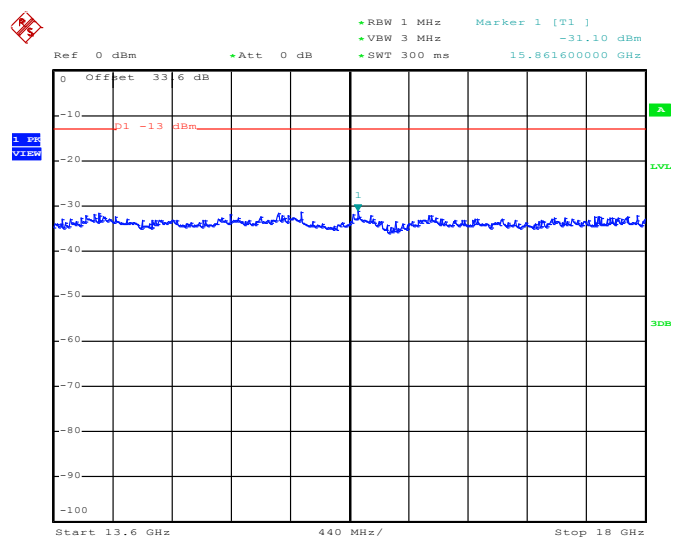
Date: 15.APR.2014 15:11:07

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 15:11:15

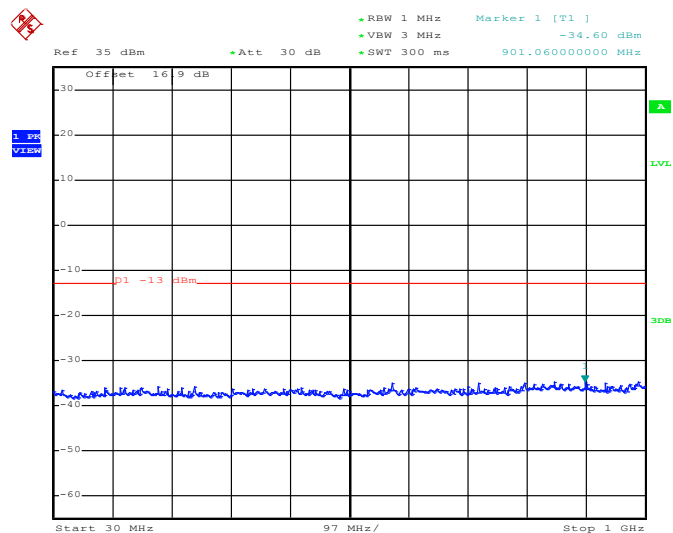
Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz



Date: 15.APR.2014 15:11:24

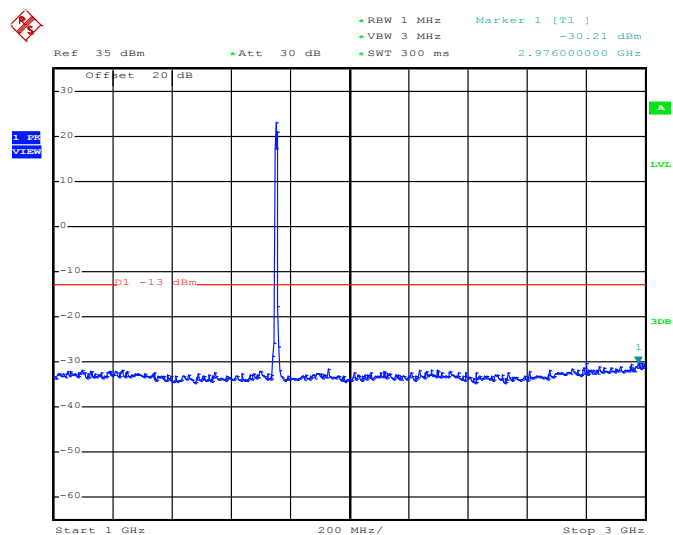
Band :	WCDMA Band IV	Channel :	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1752.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 15:14:15

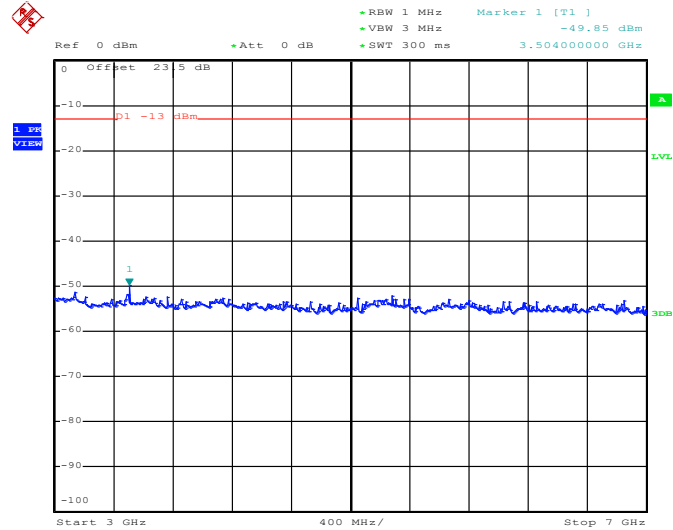
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 15:14:24

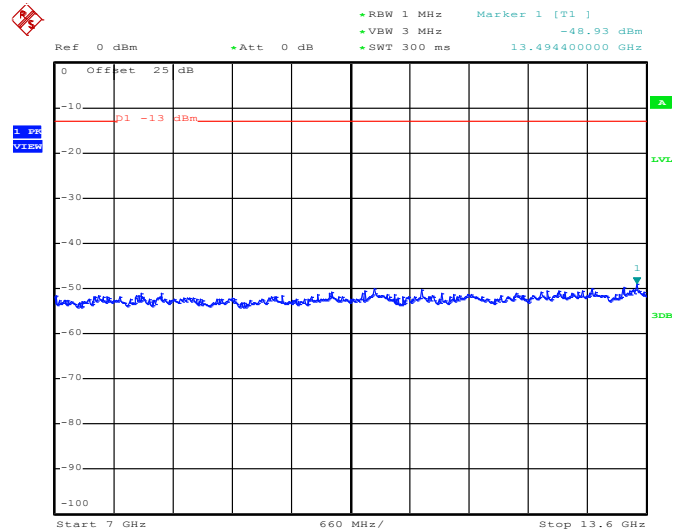


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 15:14:35

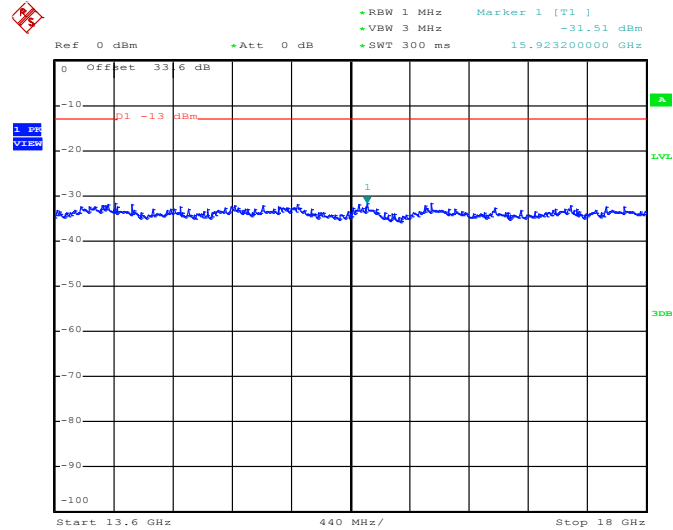
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 15:14:43



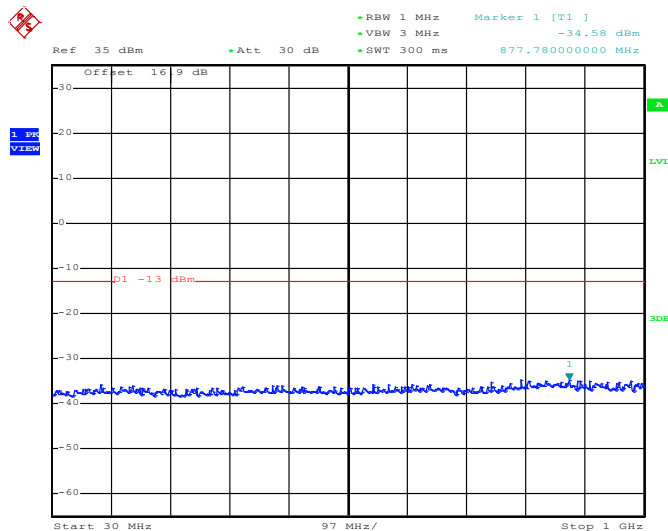
Conducted Spurious Emission Plot between 13.6GHz ~ 18GHz



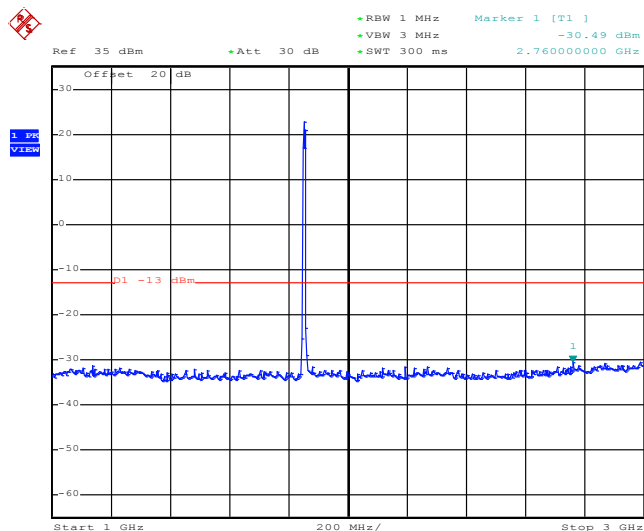
Date: 15.APR.2014 15:14:52



Band :	WCDMA Band II	Channel :	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1852.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

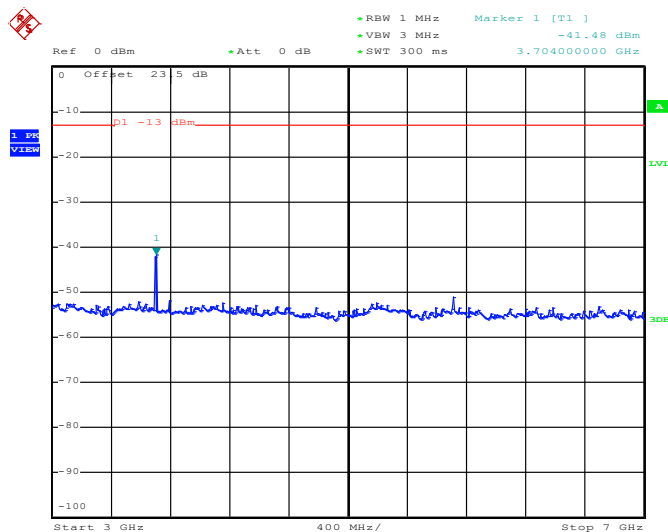
Date: 15.APR.2014 14:25:33

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 14:25:41

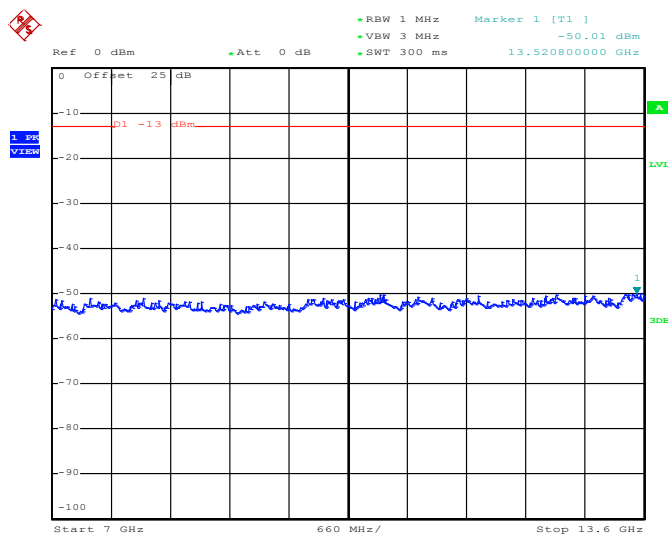


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 14:25:53

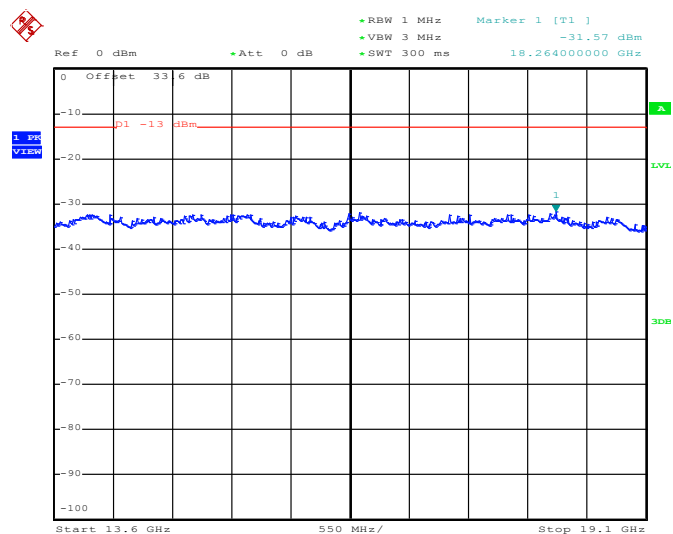
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 14:26:01



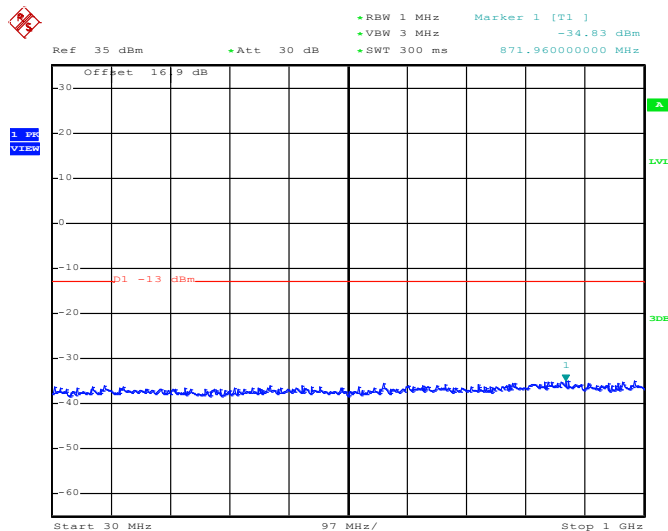
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



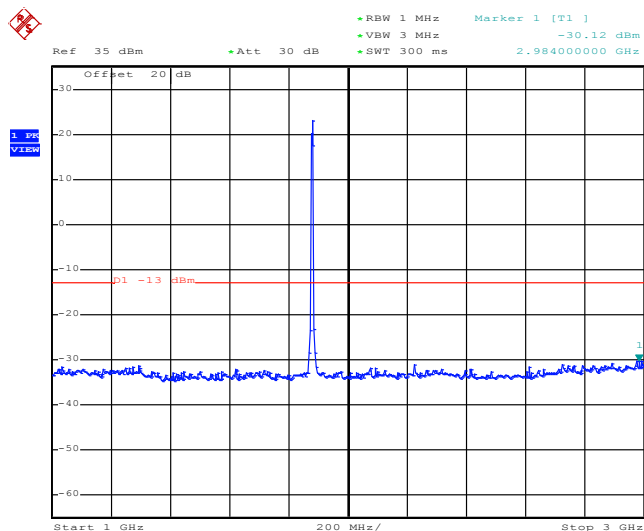
Date: 15.APR.2014 14:26:09



Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

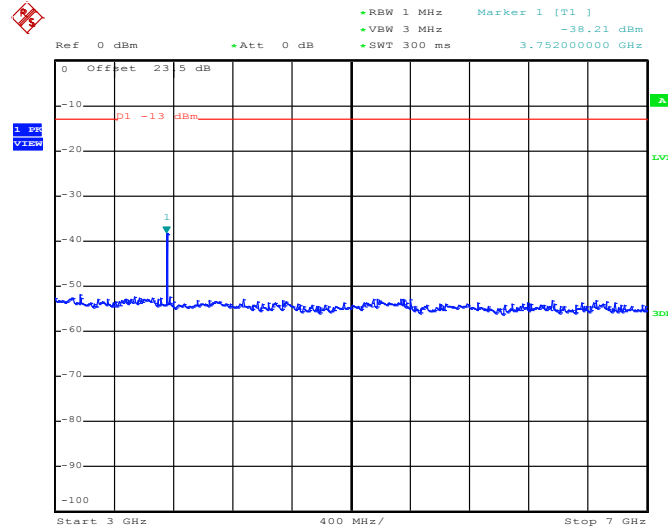
Date: 15.APR.2014 14:21:01

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

Date: 15.APR.2014 14:21:10

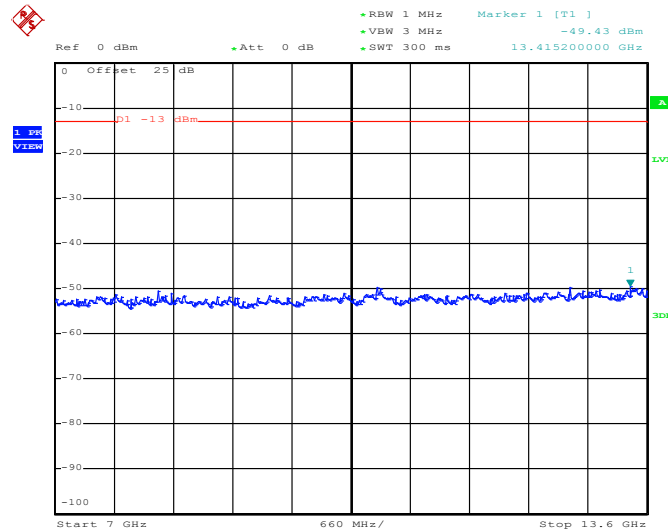


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 14:21:22

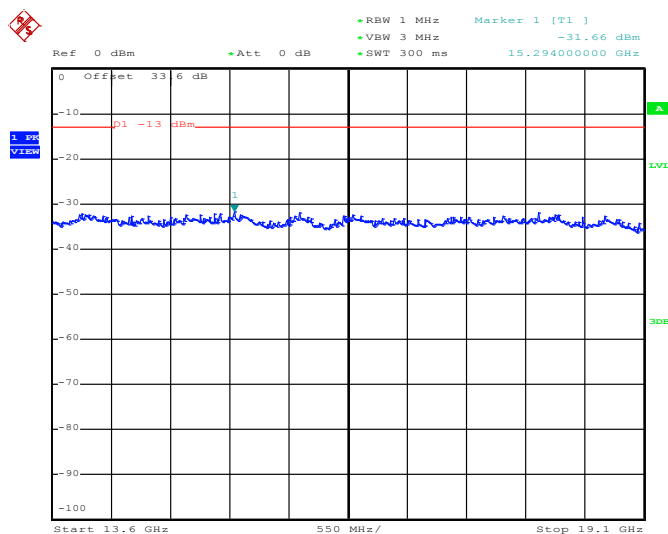
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 14:21:30



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

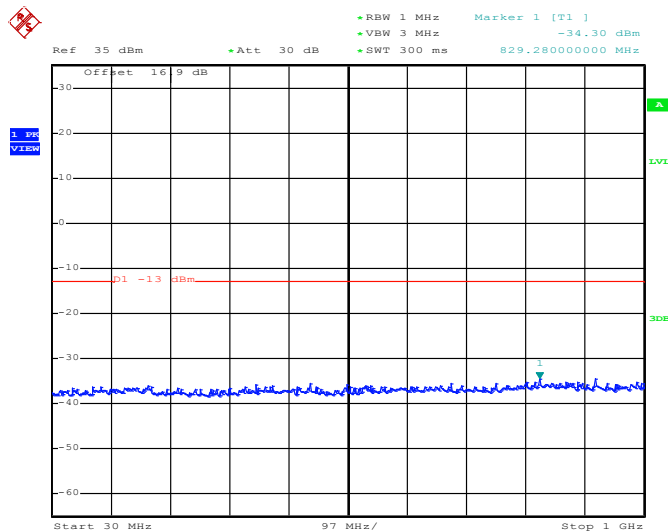


Date: 15.APR.2014 14:21:38



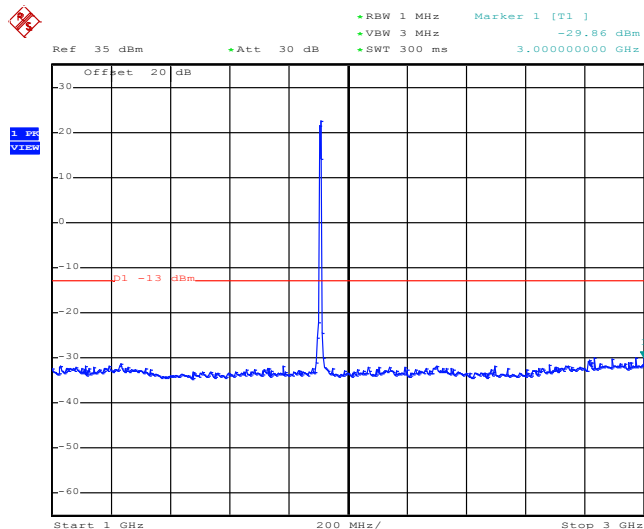
Band :	WCDMA Band II	Channel :	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency :	1907.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 15.APR.2014 14:28:41

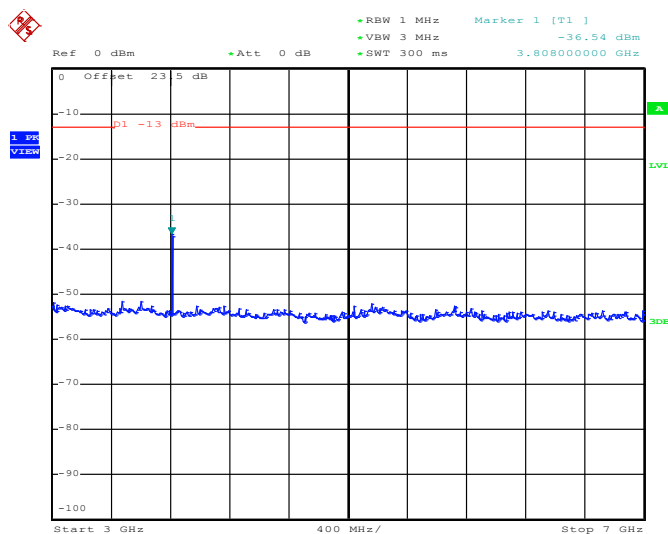
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 15.APR.2014 14:28:49

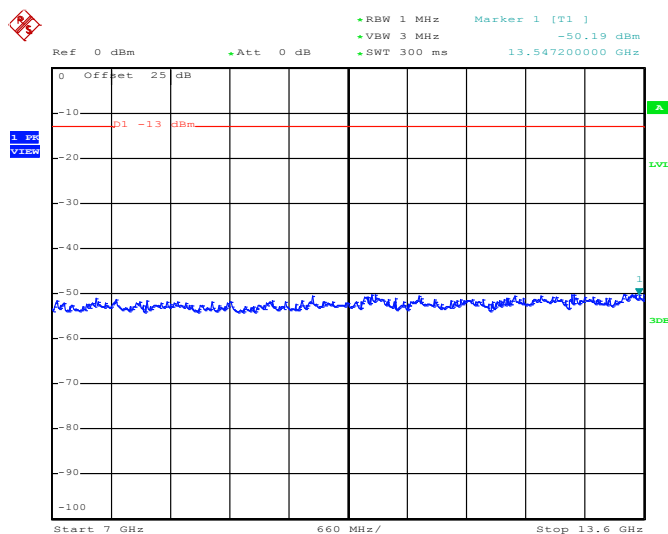


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 15.APR.2014 14:29:02

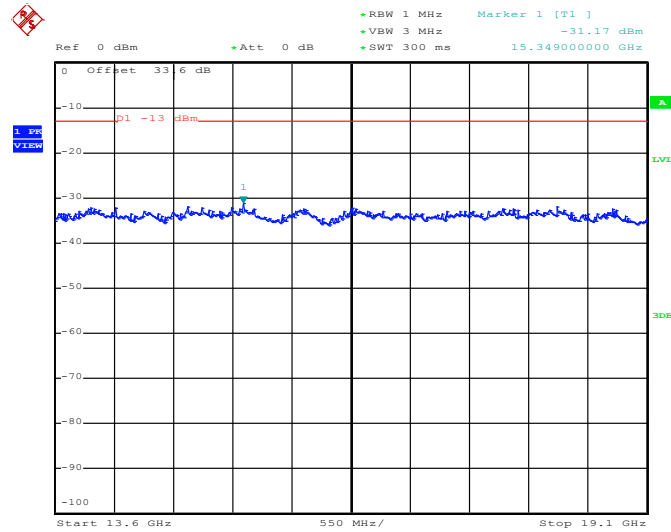
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 15.APR.2014 14:29:10



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 15.APR.2014 14:29:19

3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

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

3.7.2 Measuring Instruments

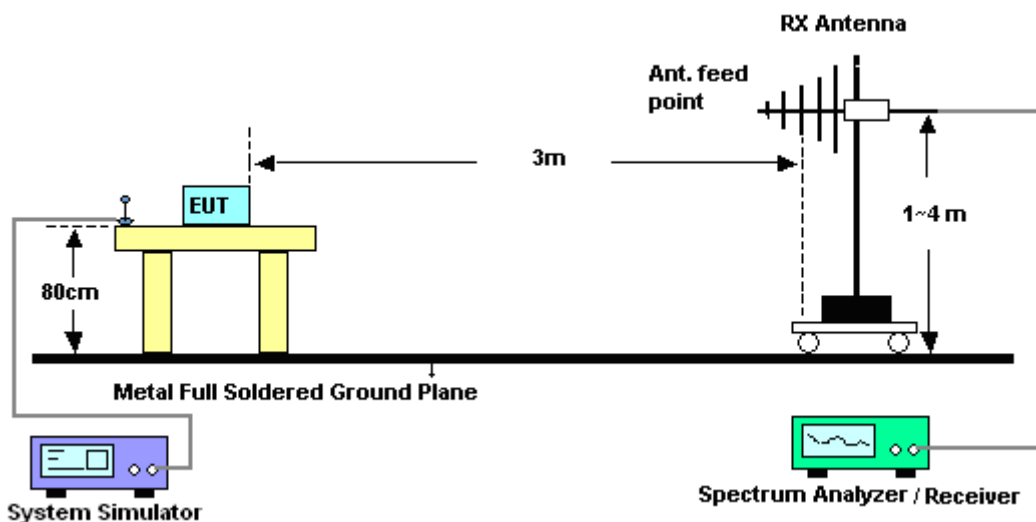
The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

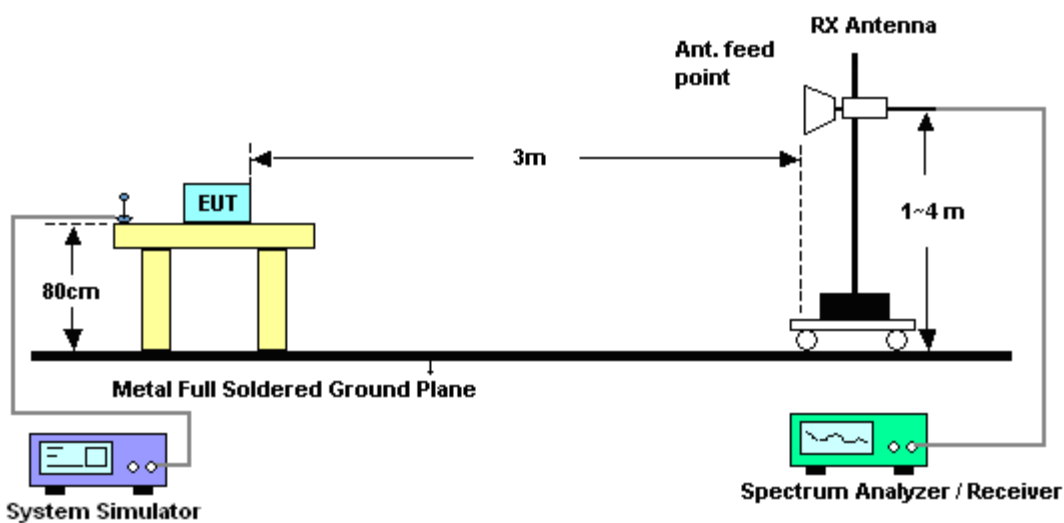
1. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



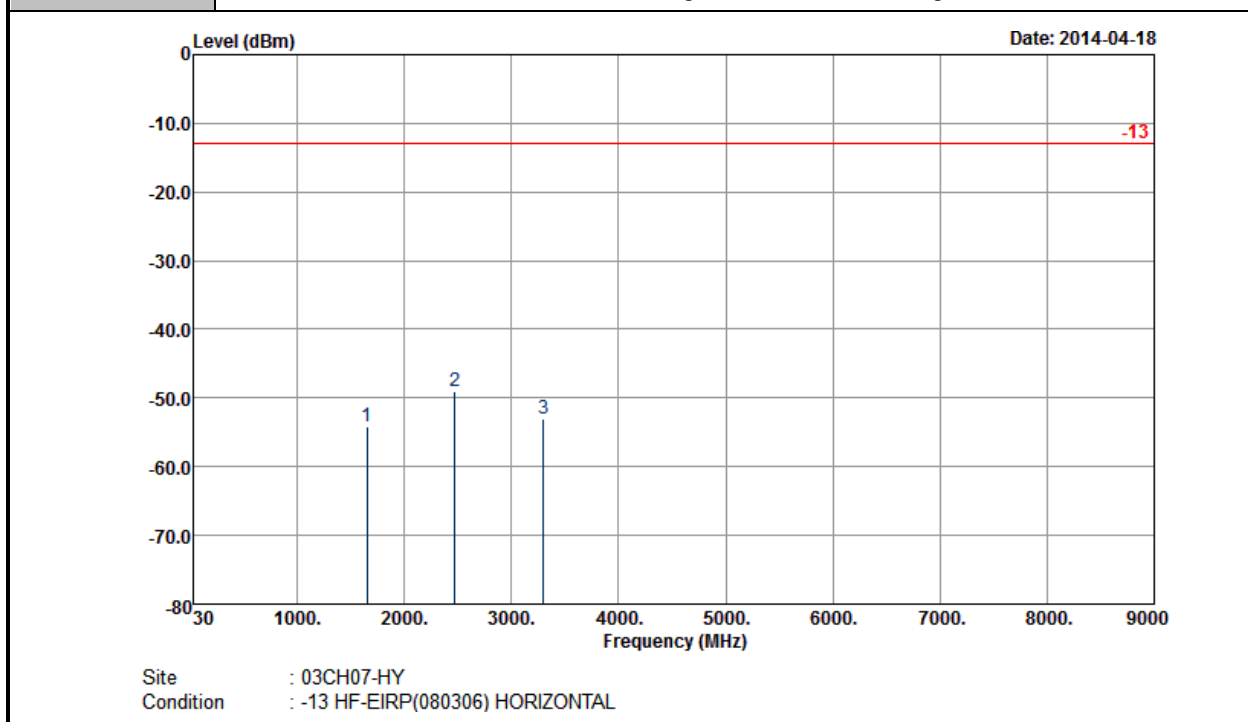
For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

<Low Channel>

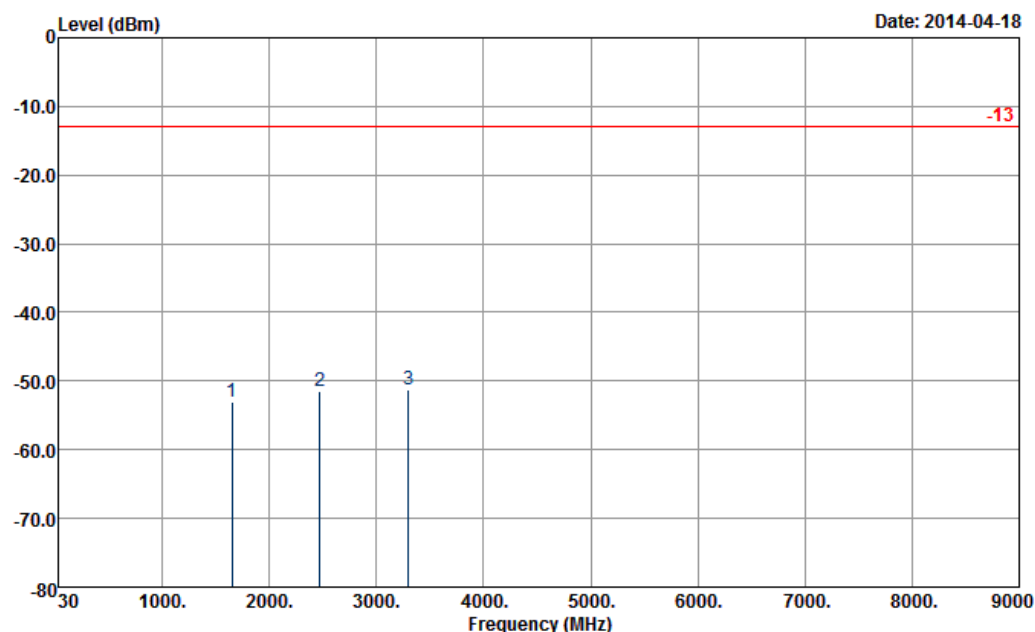
Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-54.10	-13	-41.10	-62.83	-58.1	1.53	5.53	H	Pass
2474	-49.01	-13	-36.01	-62.22	-53.1	2.06	6.15	H	Pass
3298	-53.05	-13	-40.05	-67.67	-58.5	2.48	7.93	H	Pass

Other harmonics are lower than background noise

Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



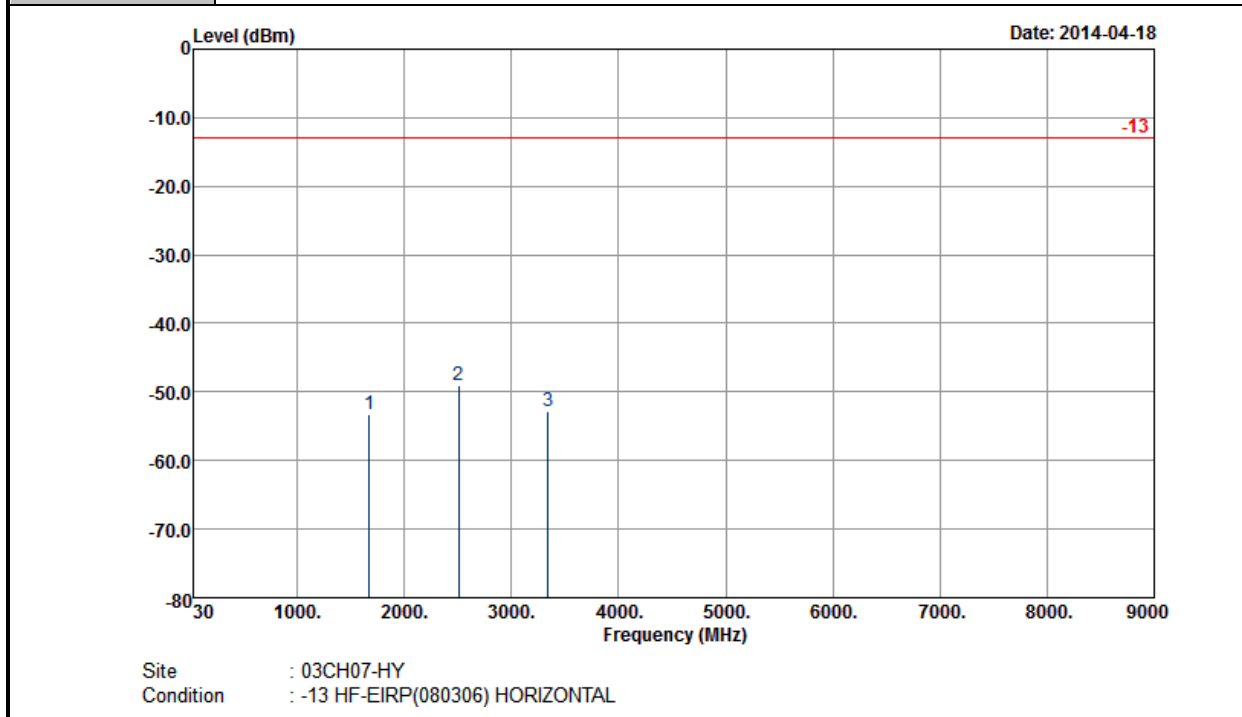
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-53.10	-13	-40.10	-64.33	-57.1	1.53	5.53	V	Pass
2474	-51.51	-13	-38.51	-65.19	-55.6	2.06	6.15	V	Pass
3298	-51.35	-13	-38.35	-66.99	-56.8	2.48	7.93	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

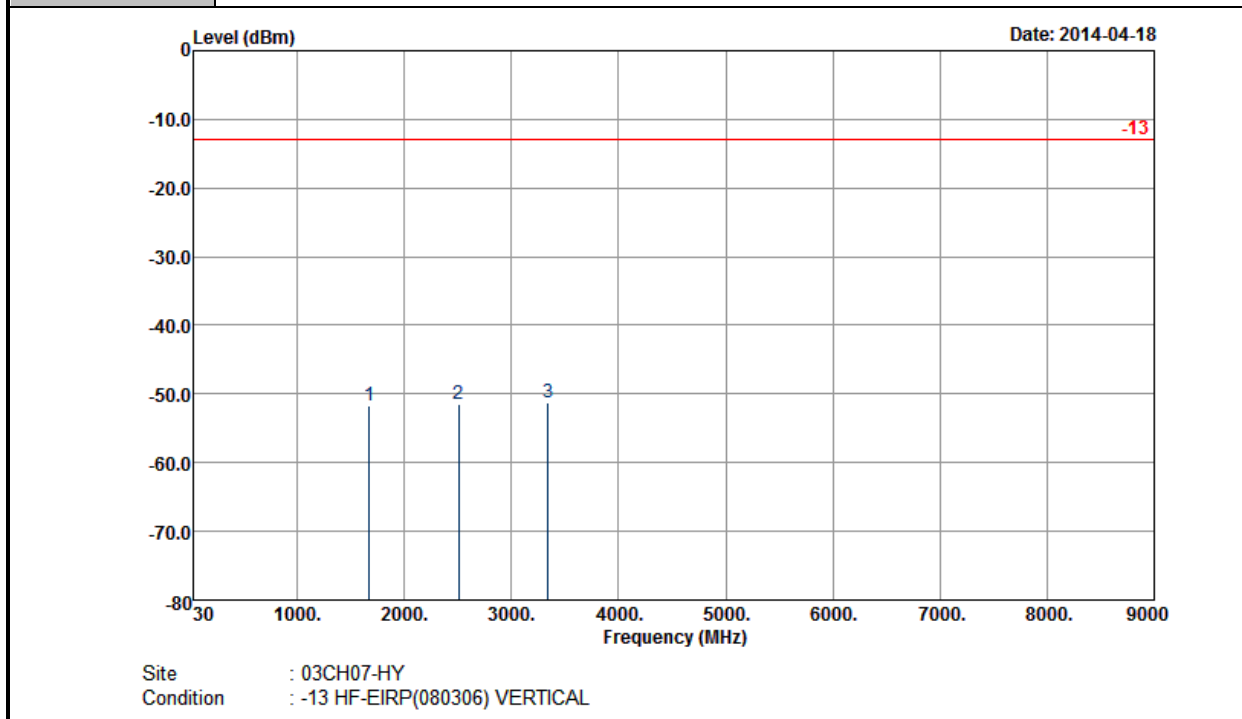


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-53.33	-13	-40.33	-62.68	-57.2	1.62	5.49	H	Pass
2509	-49.08	-13	-36.08	-62.51	-53.2	2.1	6.22	H	Pass
3345	-52.76	-13	-39.76	-66.9	-57.8	3.03	8.07	H	Pass

Other harmonics are lower than background noise



Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

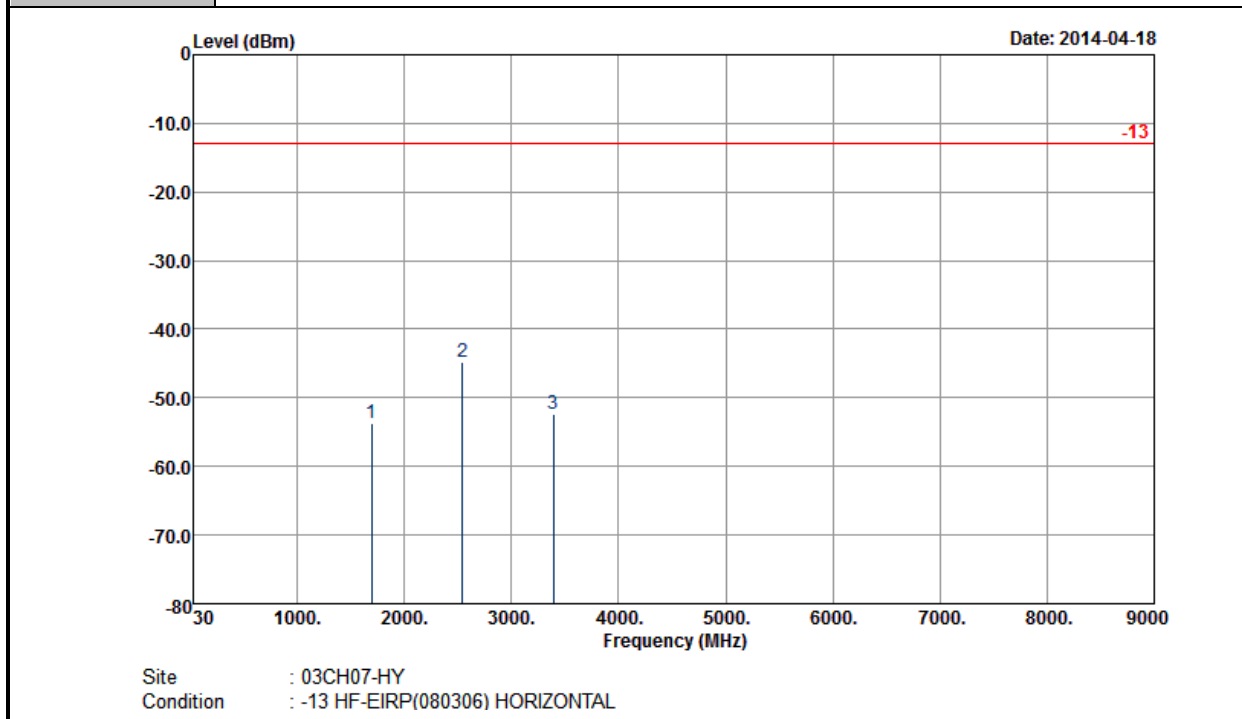


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-51.63	-13	-38.63	-63.26	-55.5	1.62	5.49	V	Pass
2509	-51.48	-13	-38.48	-65.14	-55.6	2.1	6.22	V	Pass
3345	-51.36	-13	-38.36	-67.25	-56.4	3.03	8.07	V	Pass

Other harmonics are lower than background noise

<High Channel>

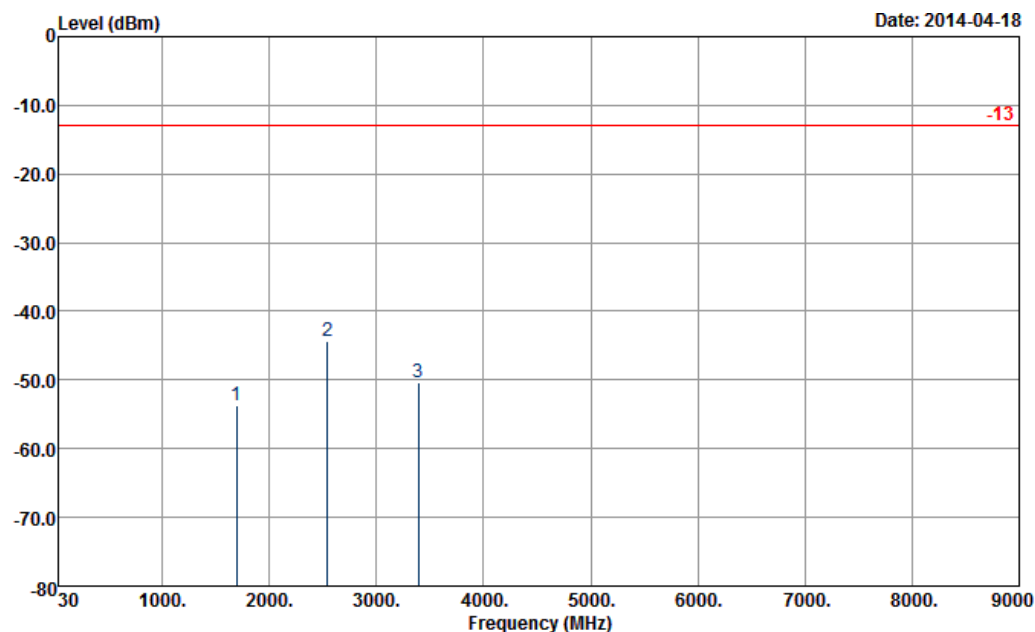
Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-53.62	-13	-40.62	-63.08	-57.5	1.57	5.45	H	Pass
2544	-44.84	-13	-31.84	-58.17	-49.1	2.02	6.28	H	Pass
3393	-52.40	-13	-39.40	-66.92	-58.3	2.3	8.20	H	Pass

Other harmonics are lower than background noise

Band :	GSM850	Temperature :	21~24°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



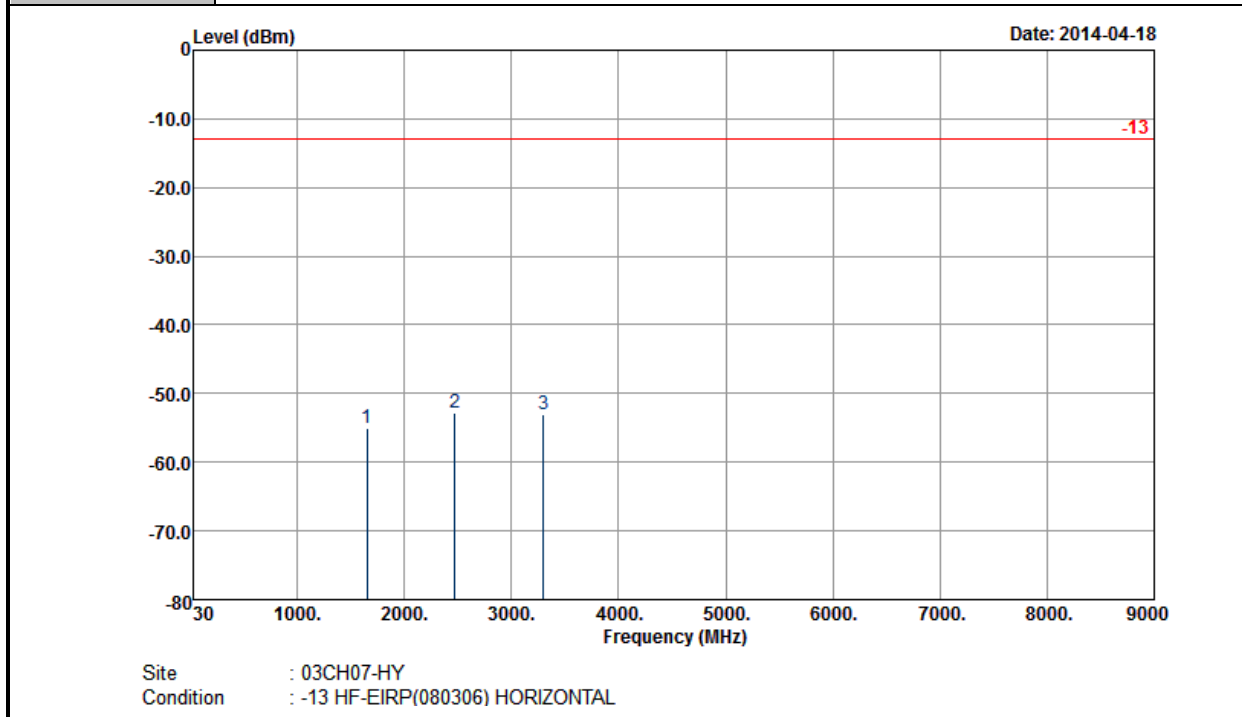
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-53.72	-13	-40.72	-64.62	-57.6	1.57	5.45	V	Pass
2544	-44.44	-13	-31.44	-58.91	-48.7	2.02	6.28	V	Pass
3393	-50.40	-13	-37.40	-66.44	-56.3	2.3	8.20	V	Pass

Other harmonics are lower than background noise

<Low Channel>

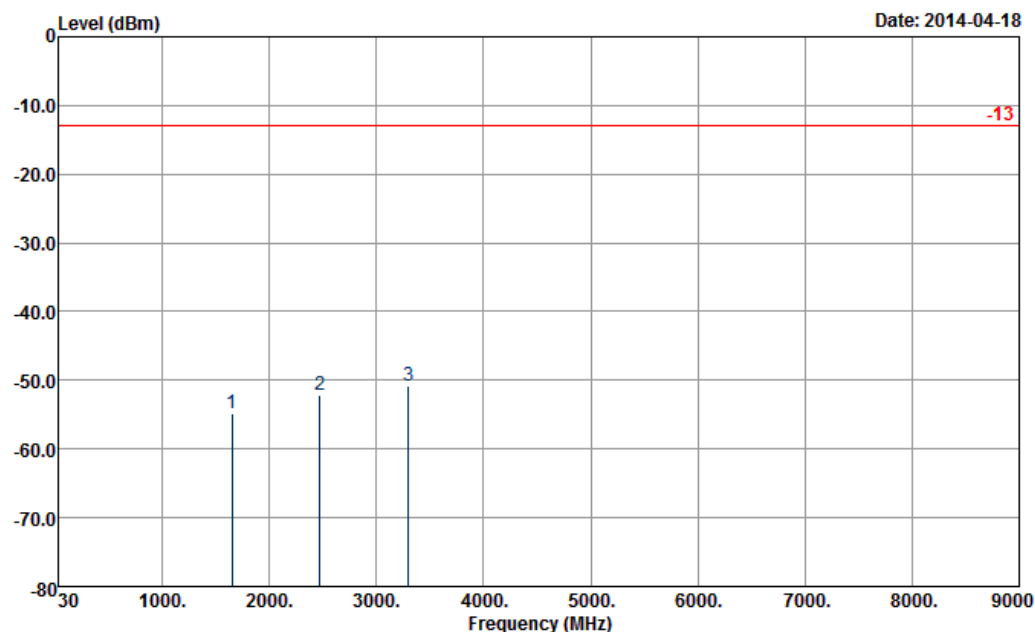
Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-55.10	-13	-42.10	-64.16	-59.1	1.53	5.53	H	Pass
2474	-52.71	-13	-39.71	-65.98	-56.8	2.06	6.15	H	Pass
3298	-53.05	-13	-40.05	-67.3	-58.5	2.48	7.93	H	Pass

Other harmonics are lower than background noise

Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



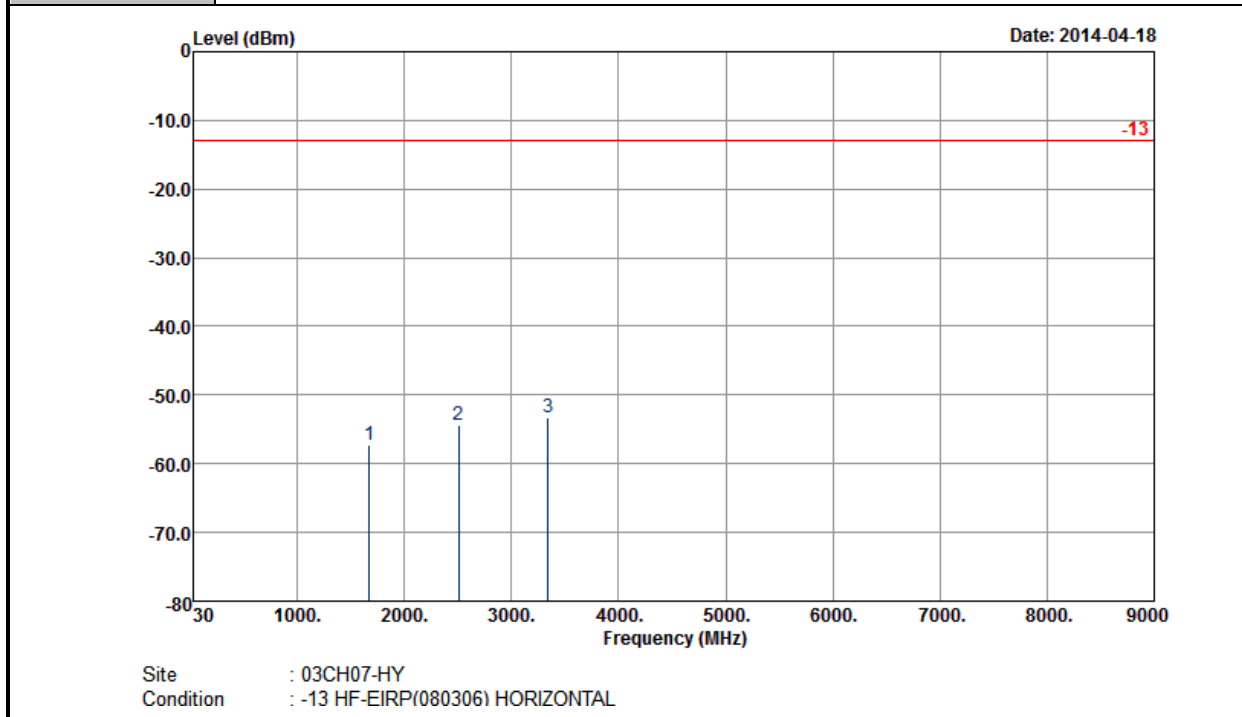
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-54.80	-13	-41.80	-66.15	-58.8	1.53	5.53	V	Pass
2474	-52.21	-13	-39.21	-66.24	-56.3	2.06	6.15	V	Pass
3298	-50.85	-13	-37.85	-67.06	-56.3	2.48	7.93	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

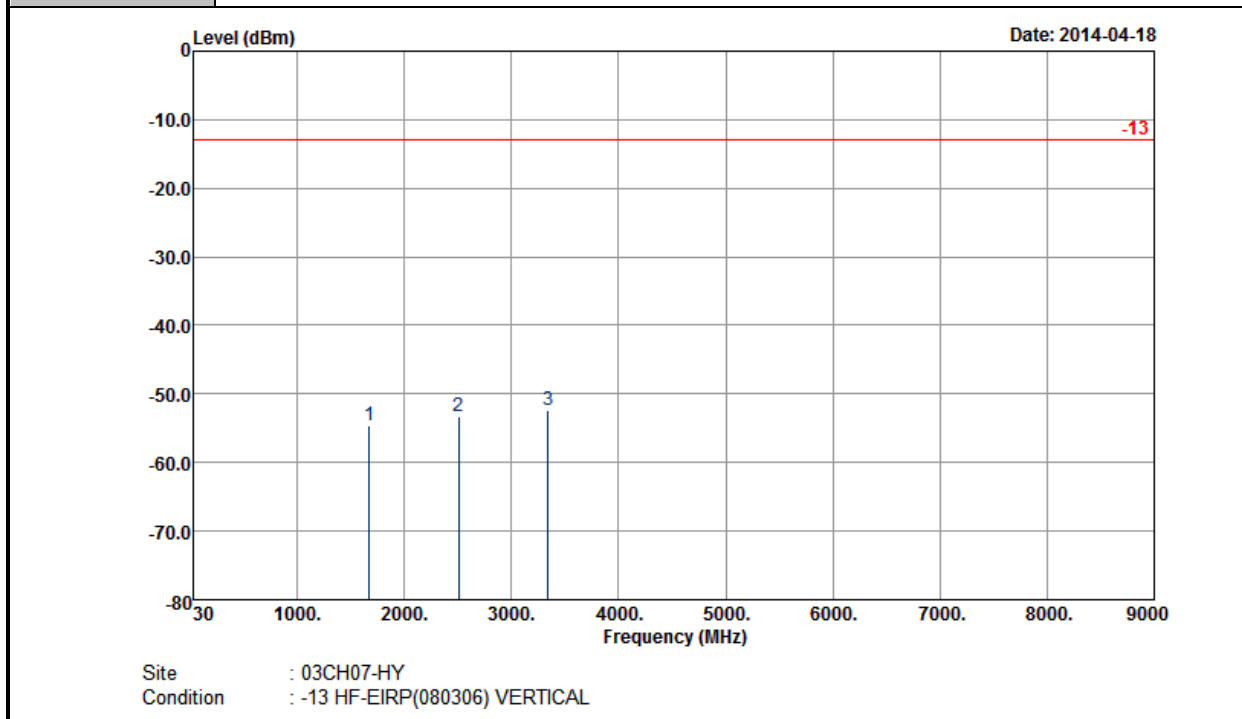


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-57.23	-13	-44.23	-66.26	-61.1	1.62	5.49	H	Pass
2509	-54.38	-13	-41.38	-67.27	-58.5	2.1	6.22	H	Pass
3345	-53.36	-13	-40.36	-67.51	-58.4	3.03	8.07	H	Pass

Other harmonics are lower than background noise



Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

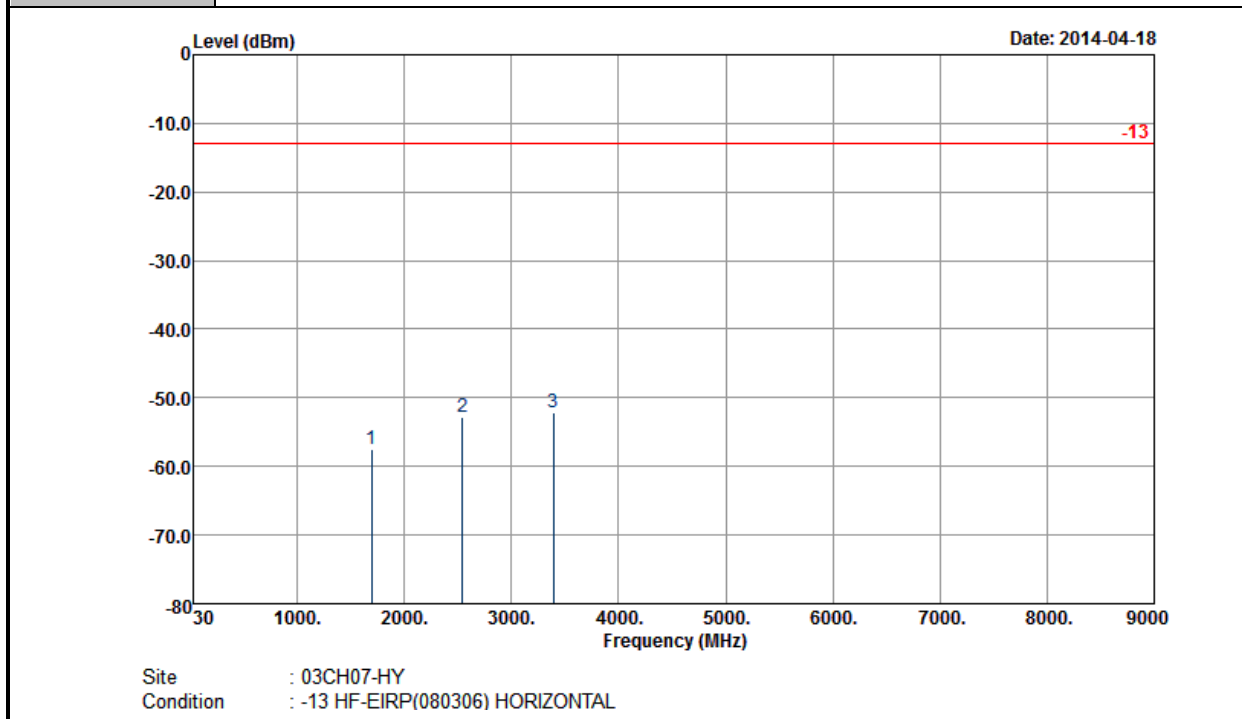


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-54.53	-13	-41.53	-66.14	-58.4	1.62	5.49	V	Pass
2509	-53.28	-13	-40.28	-67.24	-57.4	2.1	6.22	V	Pass
3345	-52.46	-13	-39.46	-67.63	-57.5	3.03	8.07	V	Pass

Other harmonics are lower than background noise

<High Channel>

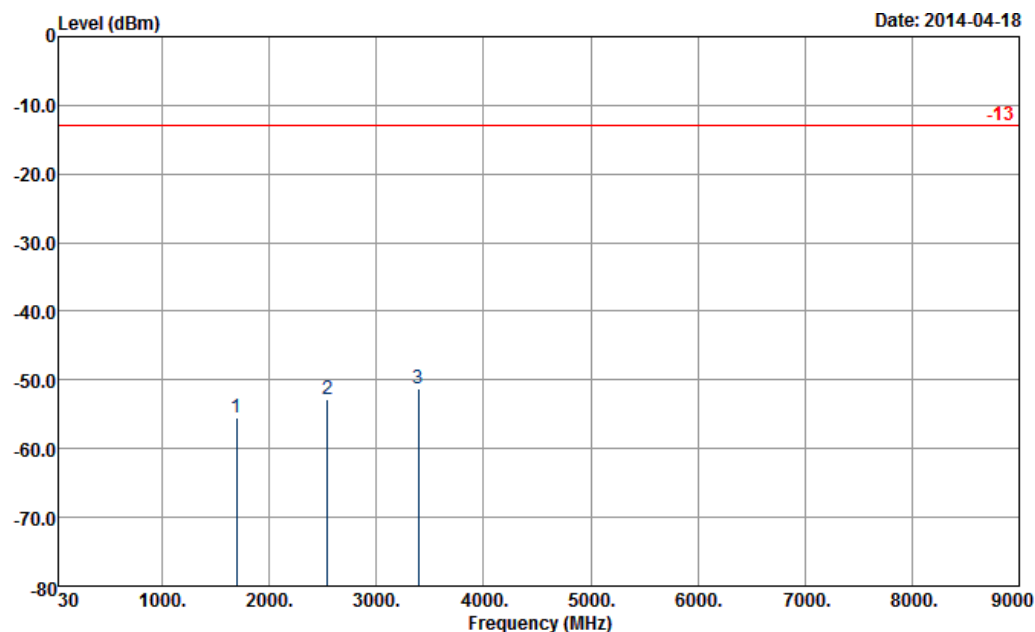
Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-57.52	-13	-44.52	-66.69	-61.4	1.57	5.45	H	Pass
2544	-52.84	-13	-39.84	-66.6	-57.1	2.02	6.28	H	Pass
3393	-52.10	-13	-39.10	-66.77	-58	2.3	8.20	H	Pass

Other harmonics are lower than background noise

Band :	GSM850	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

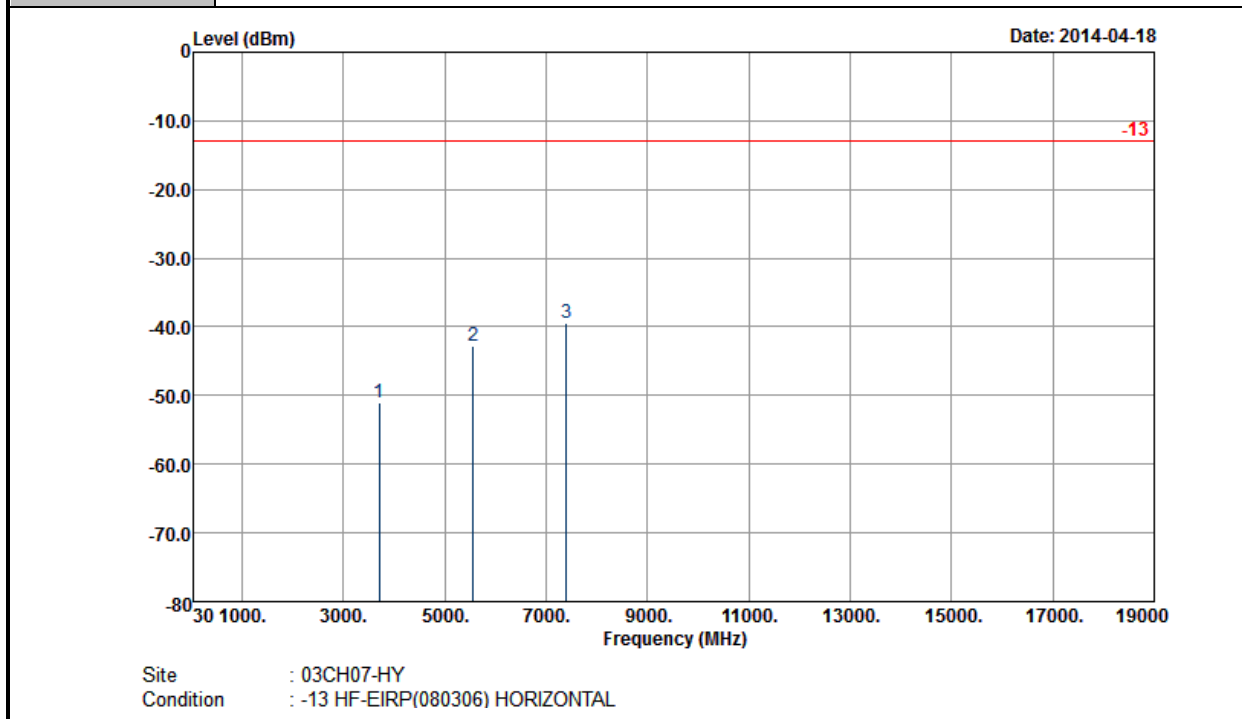


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-55.52	-13	-42.52	-66.94	-59.4	1.57	5.45	V	Pass
2544	-52.84	-13	-39.84	-66.9	-57.1	2.02	6.28	V	Pass
3393	-51.30	-13	-38.30	-67.16	-57.2	2.3	8.20	V	Pass

Other harmonics are lower than background noise

<Low Channel>

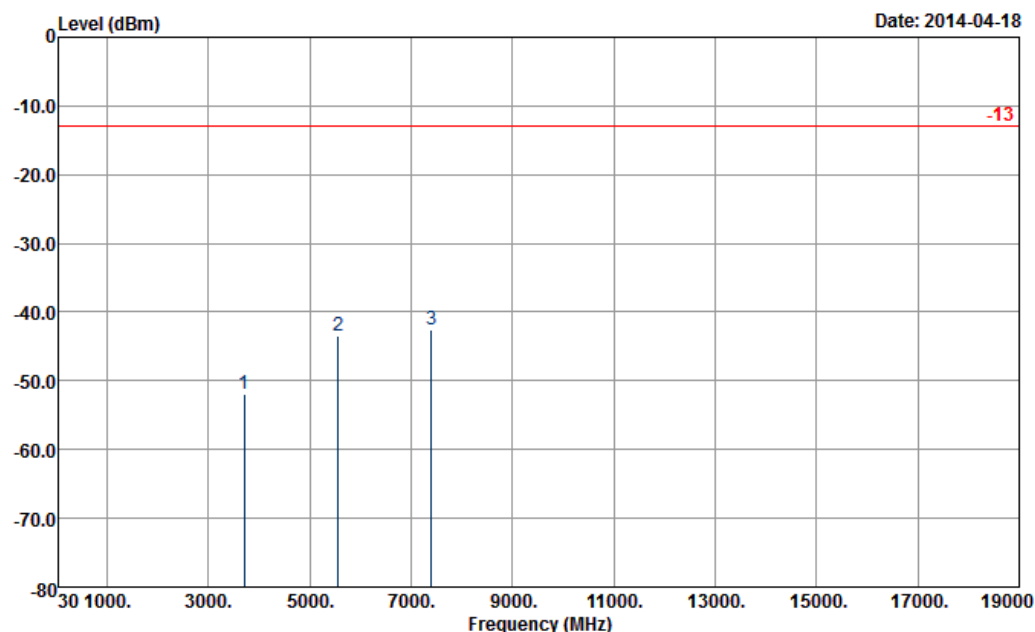
Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-50.95	-13	-37.95	-66.28	-57.1	2.59	8.74	H	Pass
5551	-42.74	-13	-29.74	-63.59	-50.4	3.04	10.70	H	Pass
7403	-39.46	-13	-26.46	66.78	-48.2	3.28	12.02	H	Pass

Other harmonics are lower than background noise

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



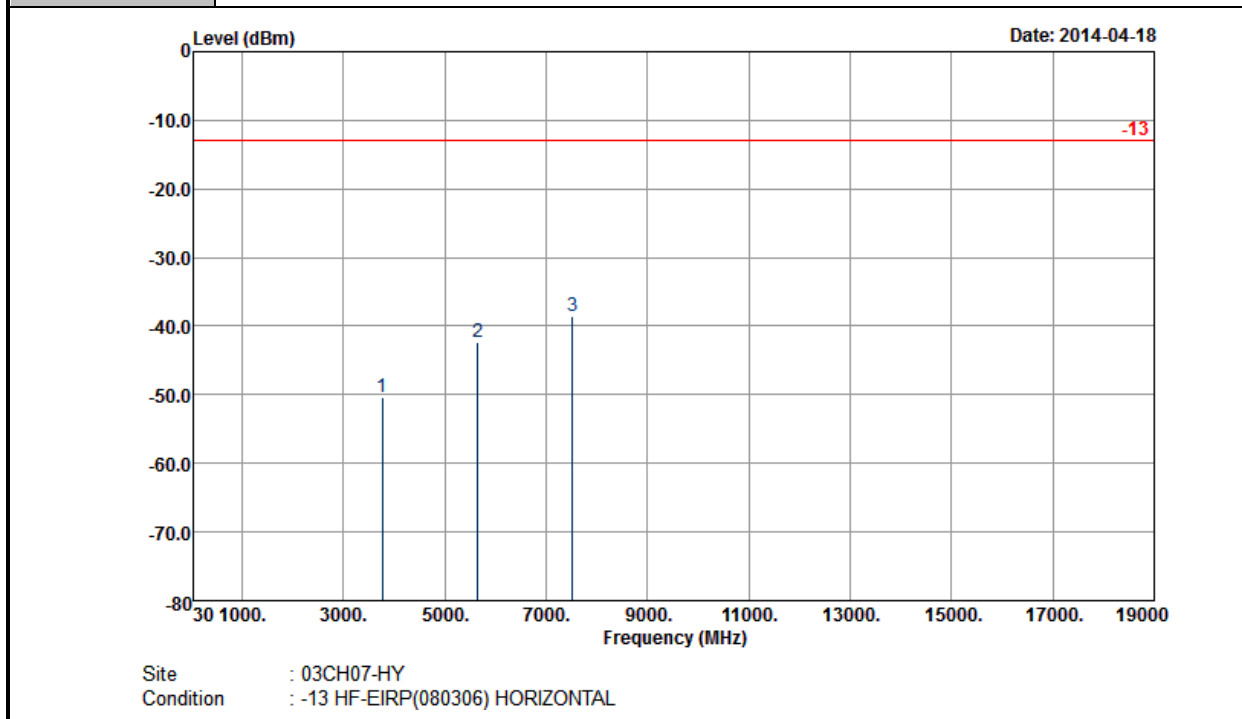
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-51.95	-13	-38.95	-68.06	-58.1	2.59	8.74	V	Pass
5551	-43.44	-13	-30.44	-63.75	-51.1	3.04	10.70	V	Pass
7403	-42.56	-13	-29.56	-69.49	-51.3	3.28	12.02	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

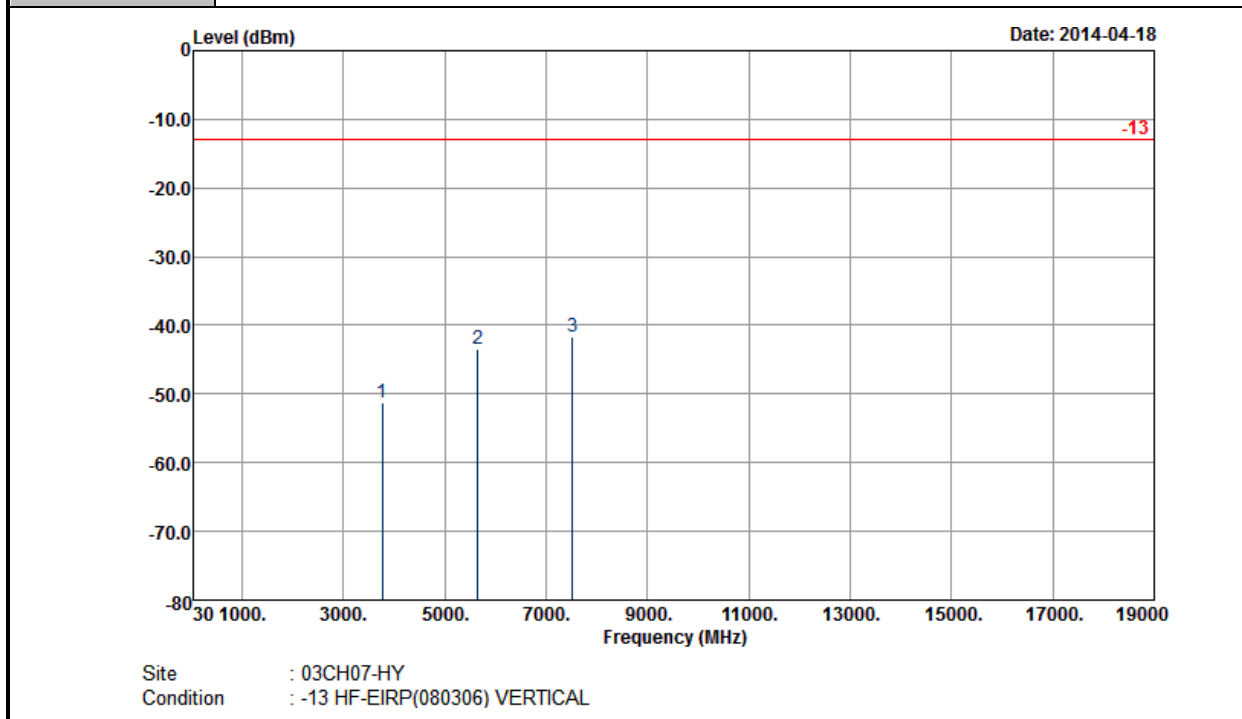


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-50.30	-13	-37.30	-66.13	-56.6	2.51	8.81	H	Pass
5640	-42.39	-13	-29.39	-63.35	-50.1	2.99	10.70	H	Pass
7520	-38.57	-13	-25.57	-65.81	-47.1	3.59	12.12	H	Pass

Other harmonics are lower than background noise



Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

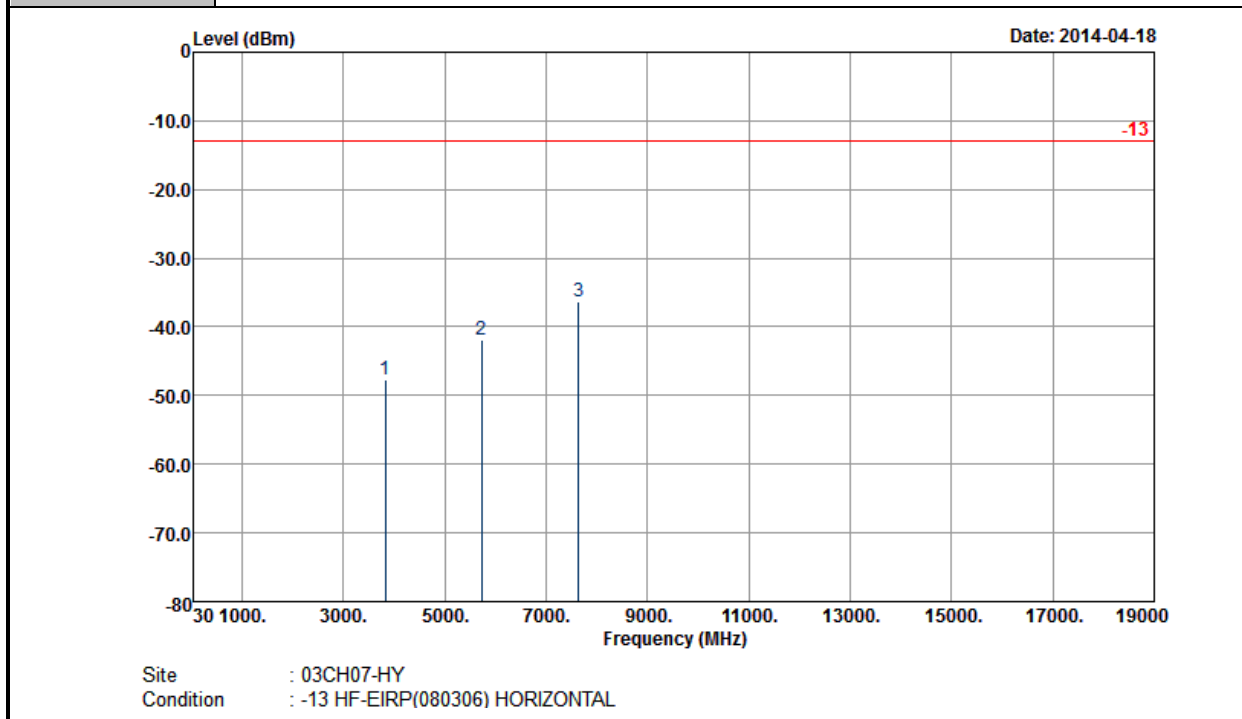


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-51.30	-13	-38.30	-67.73	-57.6	2.51	8.81	V	Pass
5640	-43.39	-13	-30.39	-63.98	-51.1	2.99	10.70	V	Pass
7520	-41.57	-13	-28.57	-68.77	-50.1	3.59	12.12	V	Pass

Other harmonics are lower than background noise

<High Channel>

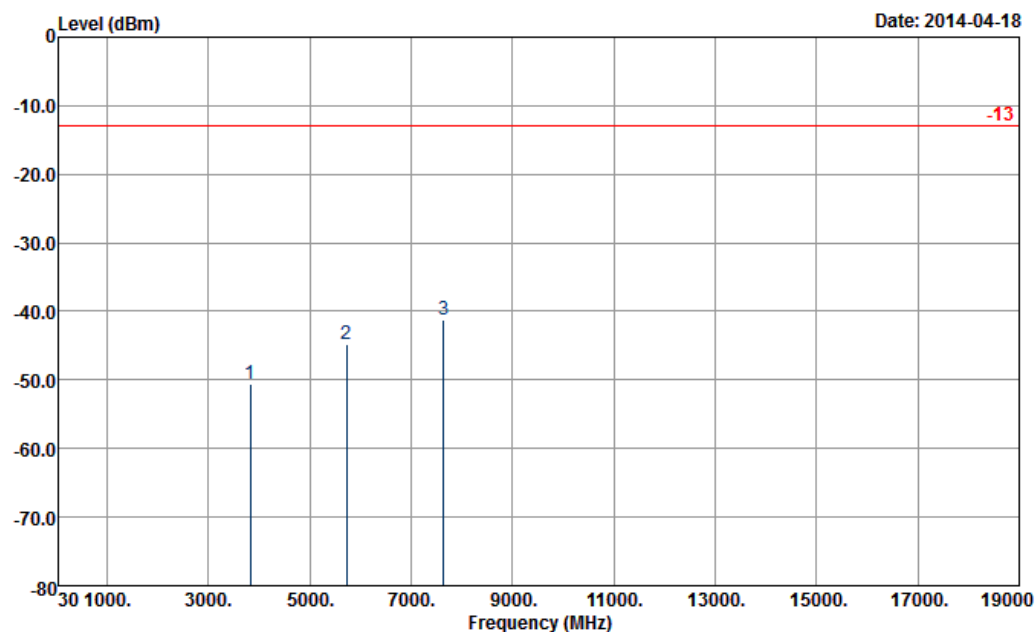
Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-47.79	-13	-34.79	-63.54	-54.2	2.47	8.88	H	Pass
5730	-41.80	-13	-28.80	-62.83	-49.5	3	10.70	H	Pass
7641	-36.42	-13	-23.42	-63	-45.2	3.43	12.21	H	Pass

Other harmonics are lower than background noise

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



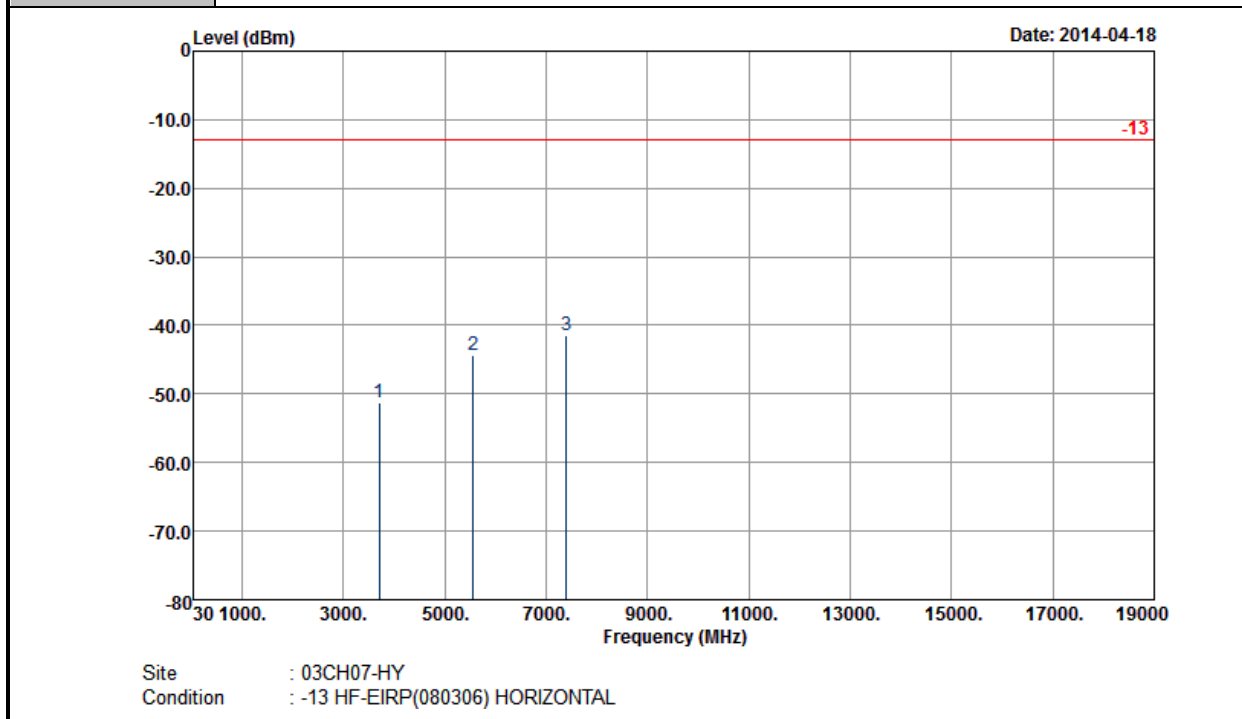
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-50.69	-13	-37.69	-67.17	-57.1	2.47	8.88	V	Pass
5730	-44.80	-13	-31.80	-65.89	-52.5	3	10.70	V	Pass
7641	-41.32	-13	-28.32	-67.77	-50.1	3.43	12.21	V	Pass

Other harmonics are lower than background noise

<Low Channel>

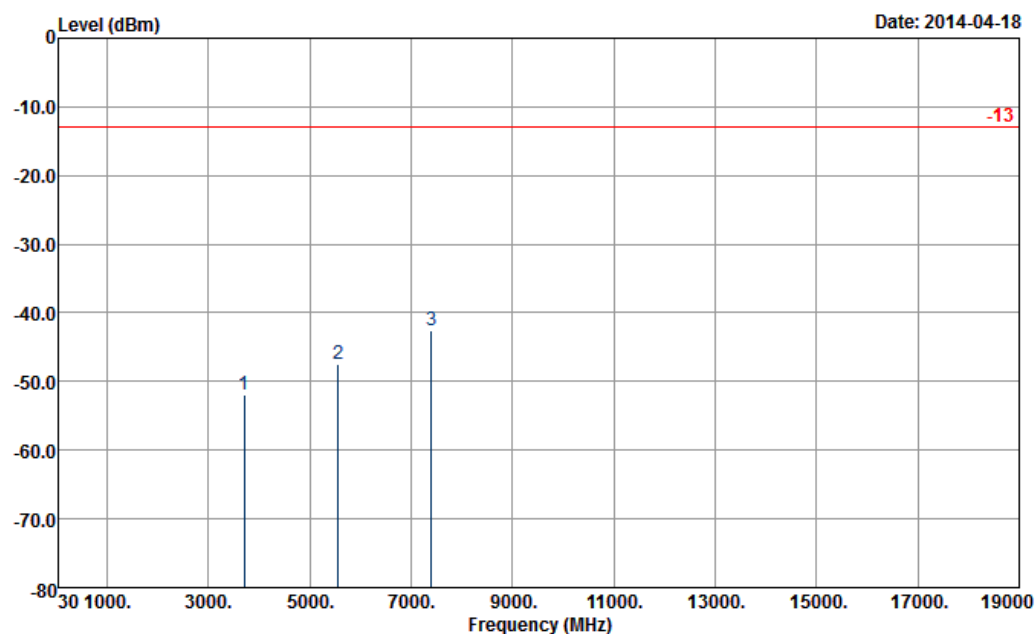
Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-51.35	-13	-38.35	-66.72	-57.5	2.59	8.74	H	Pass
5551	-44.44	-13	-31.44	-65.09	-52.1	3.04	10.70	H	Pass
7403	-41.36	-13	-28.36	-68.77	-50.1	3.28	12.02	H	Pass

Other harmonics are lower than background noise

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



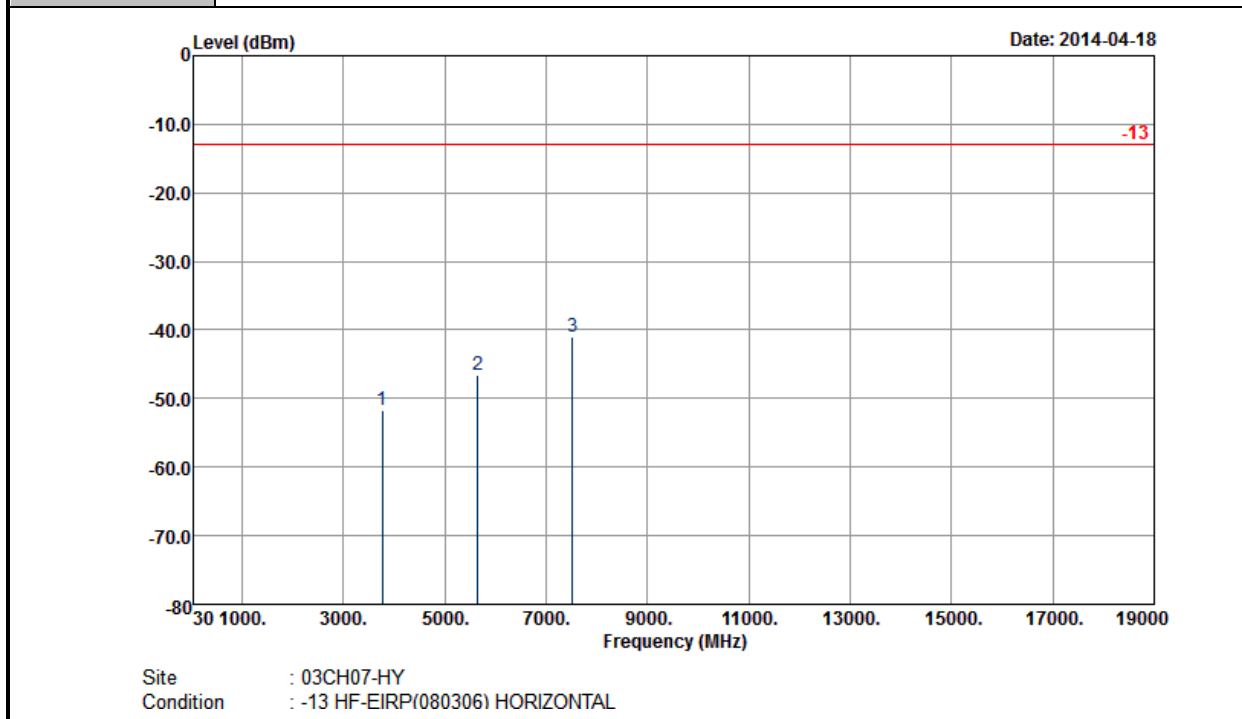
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-51.95	-13	-38.95	-68.26	-58.1	2.59	8.74	V	Pass
5551	-47.44	-13	-34.44	-67.85	-55.1	3.04	10.70	V	Pass
7403	-42.66	-13	-29.66	-69.63	-51.4	3.28	12.02	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

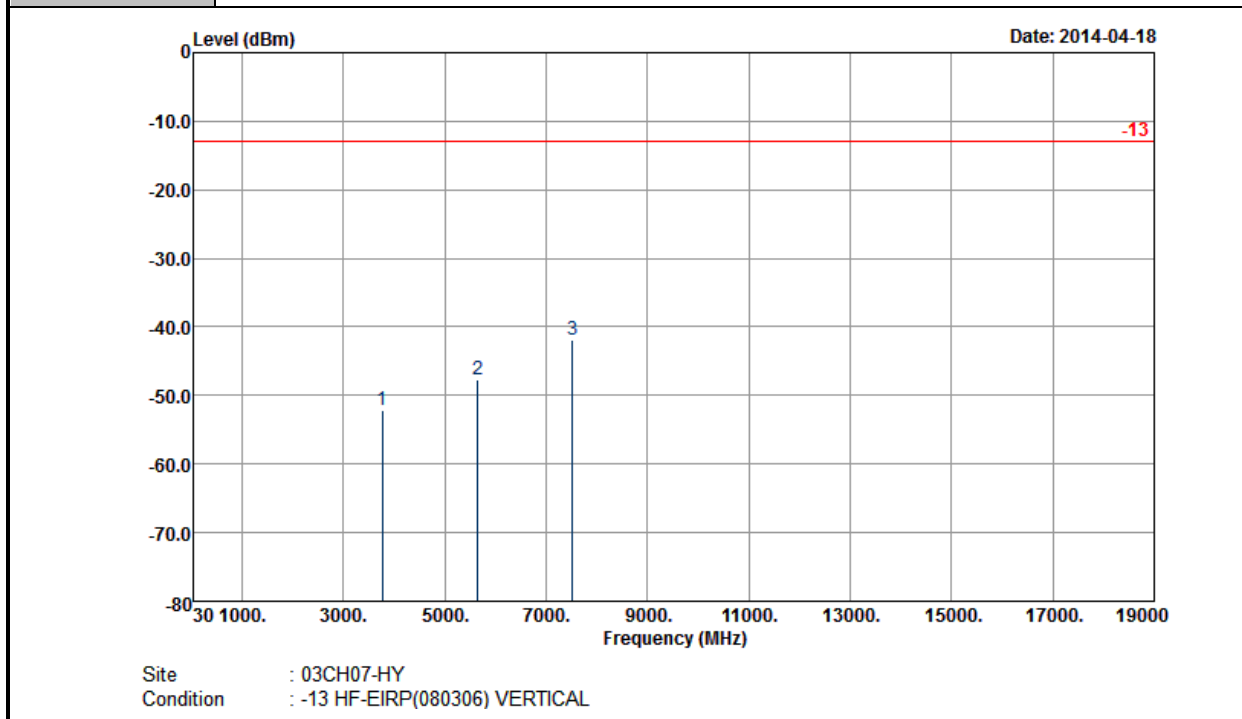


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-51.80	-13	-38.80	-67.28	-58.1	2.51	8.81	H	Pass
5640	-46.59	-13	-33.59	-67.16	-54.3	2.99	10.70	H	Pass
7520	-40.97	-13	-27.97	-68.24	-49.5	3.59	12.12	H	Pass

Other harmonics are lower than background noise



Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

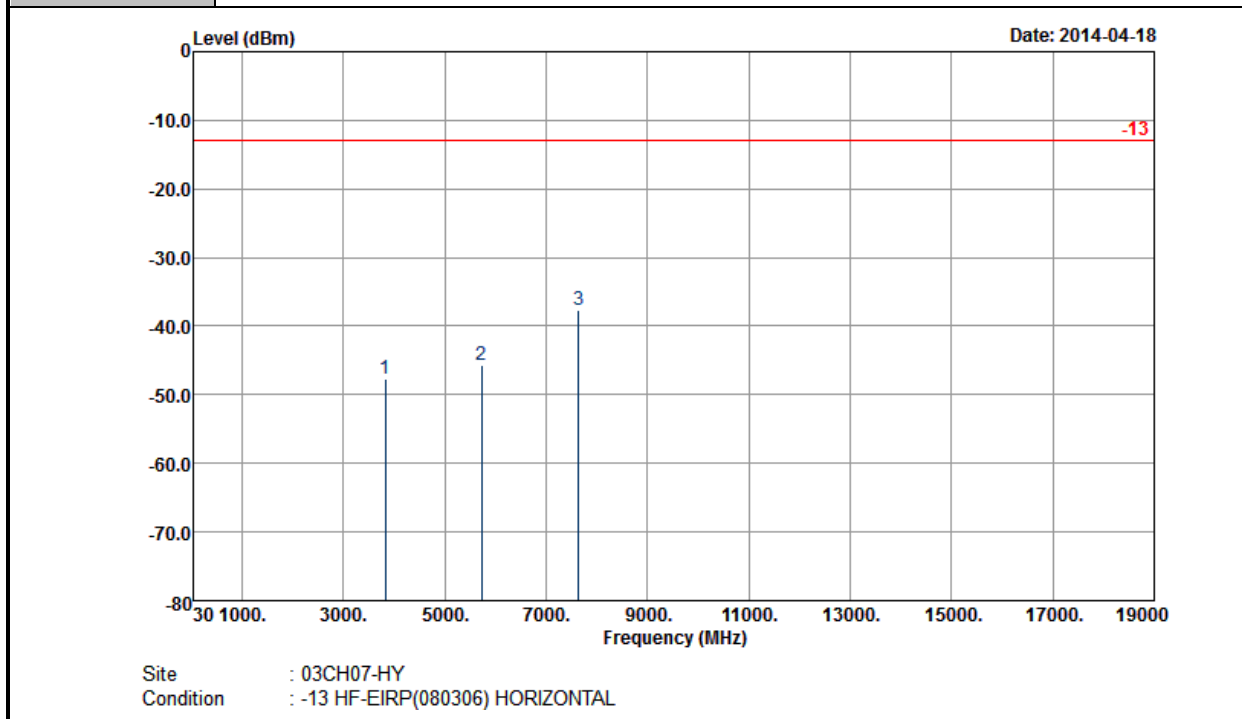


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-52.10	-13	-39.10	-68.7	-58.4	2.51	8.81	V	Pass
5640	-47.59	-13	-34.59	-68.57	-55.3	2.99	10.70	V	Pass
7520	-41.97	-13	-28.97	-69.28	-50.5	3.59	12.12	V	Pass

Other harmonics are lower than background noise

<High Channel>

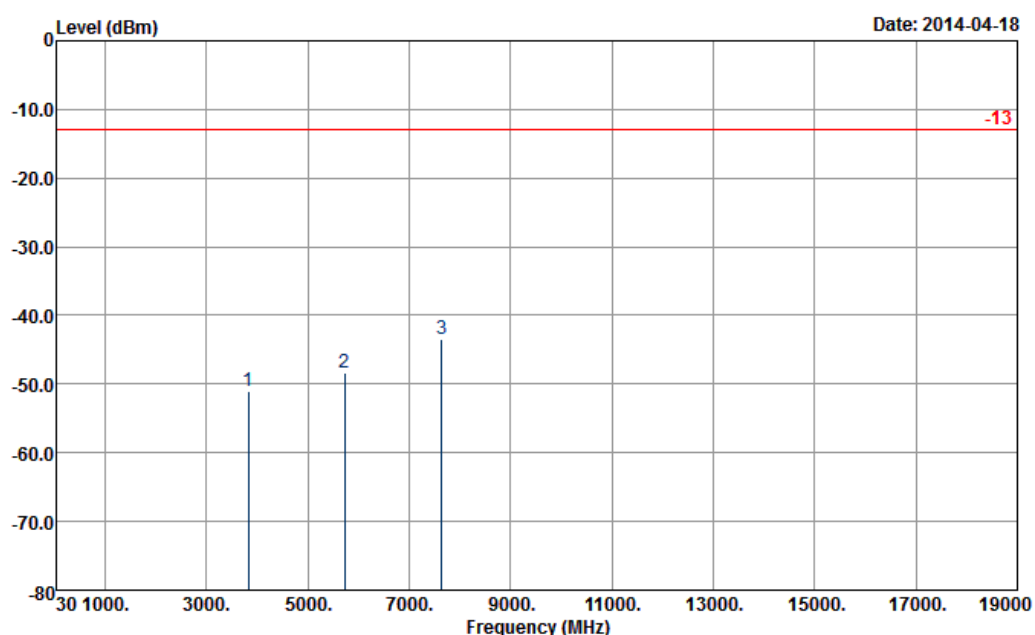
Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-47.69	-13	-34.69	-63.37	-54.1	2.47	8.88	H	Pass
5730	-45.60	-13	-32.60	-67.05	-53.3	3	10.70	H	Pass
7641	-37.72	-13	-24.72	-64.64	-46.5	3.43	12.21	H	Pass

Other harmonics are lower than background noise

Band :	GSM1900	Temperature :	21~24°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



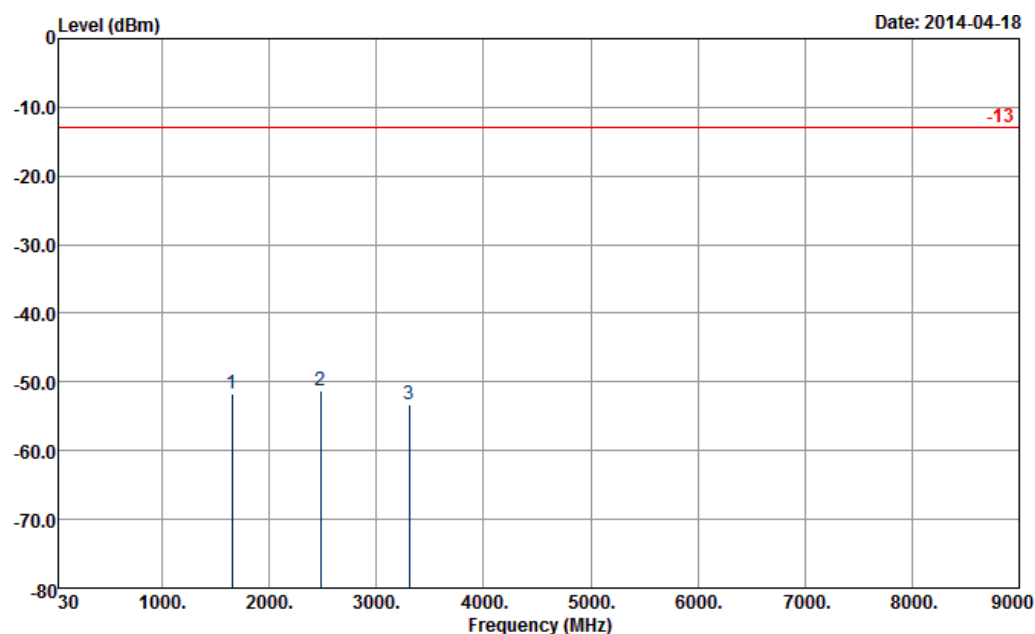
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-51.09	-13	-38.09	-67.99	-57.5	2.47	8.88	V	Pass
5730	-48.40	-13	-35.40	-69.35	-56.1	3	10.70	V	Pass
7641	-43.52	-13	-30.52	-69.18	-52.3	3.43	12.21	V	Pass

Other harmonics are lower than background noise

<Low Channel>

Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

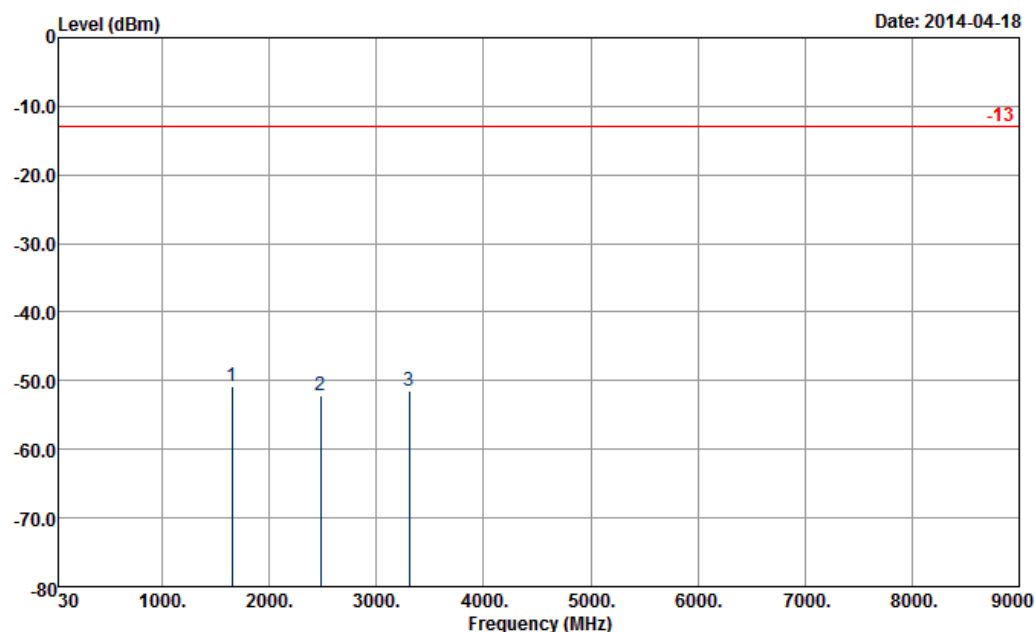


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1653	-51.60	-13	-38.60	-60.58	-55.6	1.53	5.53	H	Pass
2480	-51.31	-13	-38.31	-65.21	-55.4	2.06	6.15	H	Pass
3305	-53.25	-13	-40.25	-67.37	-58.7	2.48	7.93	H	Pass

Other harmonics are lower than background noise



Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



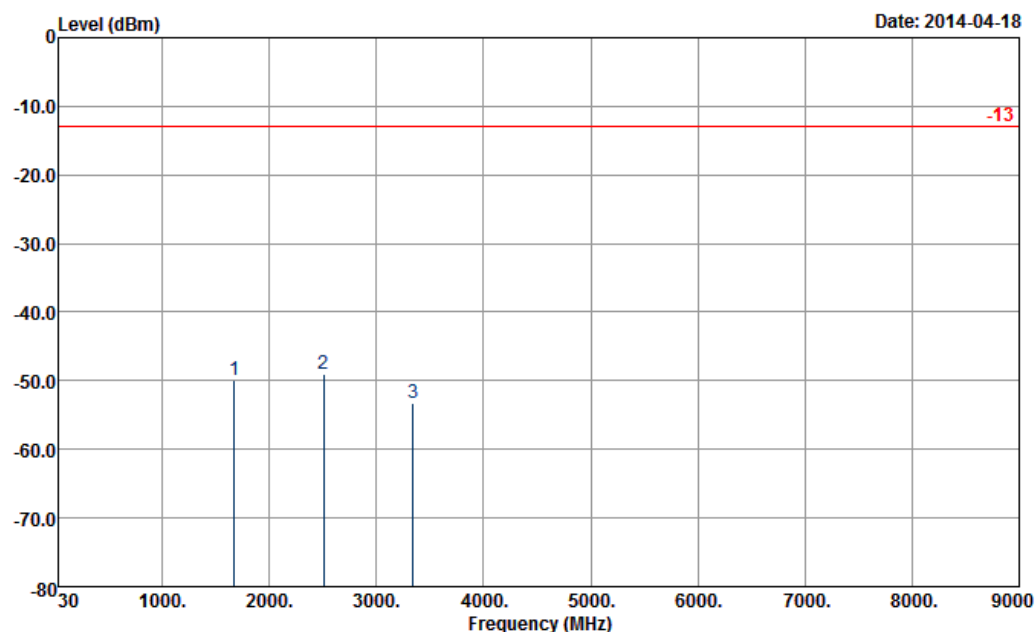
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1653	-50.80	-13	-37.80	-62.06	-54.8	1.53	5.53	V	Pass
2480	-52.21	-13	-39.21	-65.78	-56.3	2.06	6.15	V	Pass
3305	-51.55	-13	-38.55	-67.33	-57	2.48	7.93	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

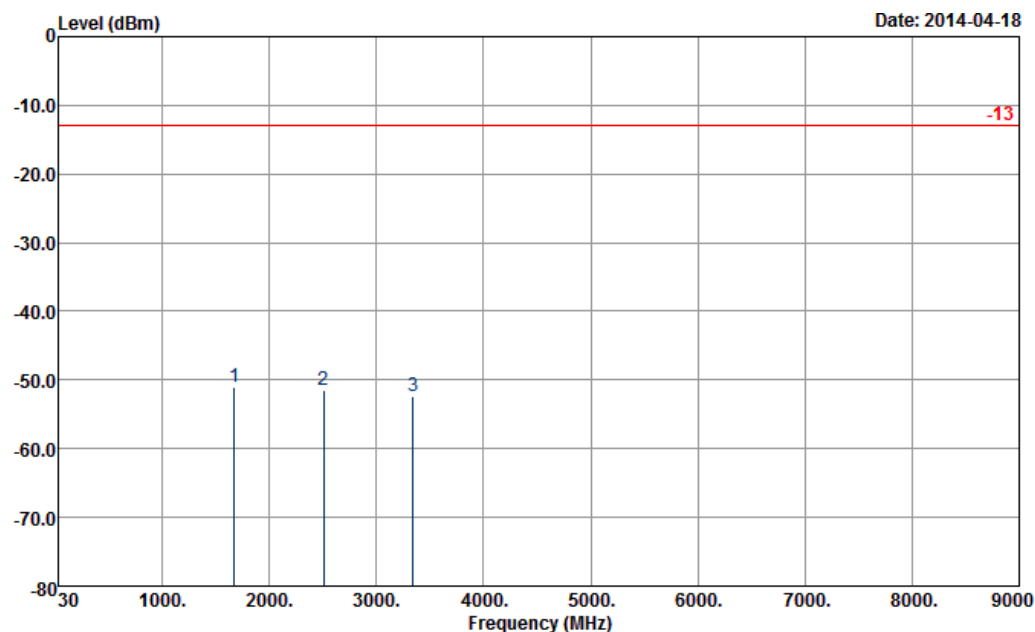


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-49.83	-13	-36.83	-59.52	-53.7	1.62	5.49	H	Pass
2509	-49.08	-13	-36.08	-62.9	-53.2	2.1	6.22	H	Pass
3345	-53.36	-13	-40.36	-67.17	-58.4	3.03	8.07	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



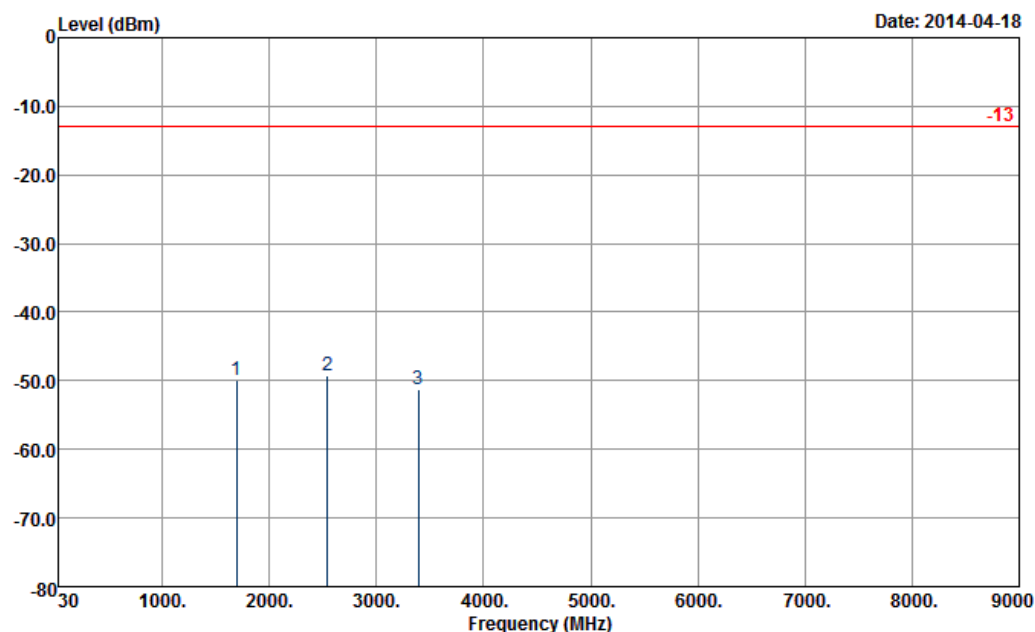
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-51.03	-13	-38.03	-62.41	-54.9	1.62	5.49	V	Pass
2509	-51.48	-13	-38.48	-65.51	-55.6	2.1	6.22	V	Pass
3345	-52.36	-13	-39.36	-67.62	-57.4	3.03	8.07	V	Pass

Other harmonics are lower than background noise

<High Channel>

Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

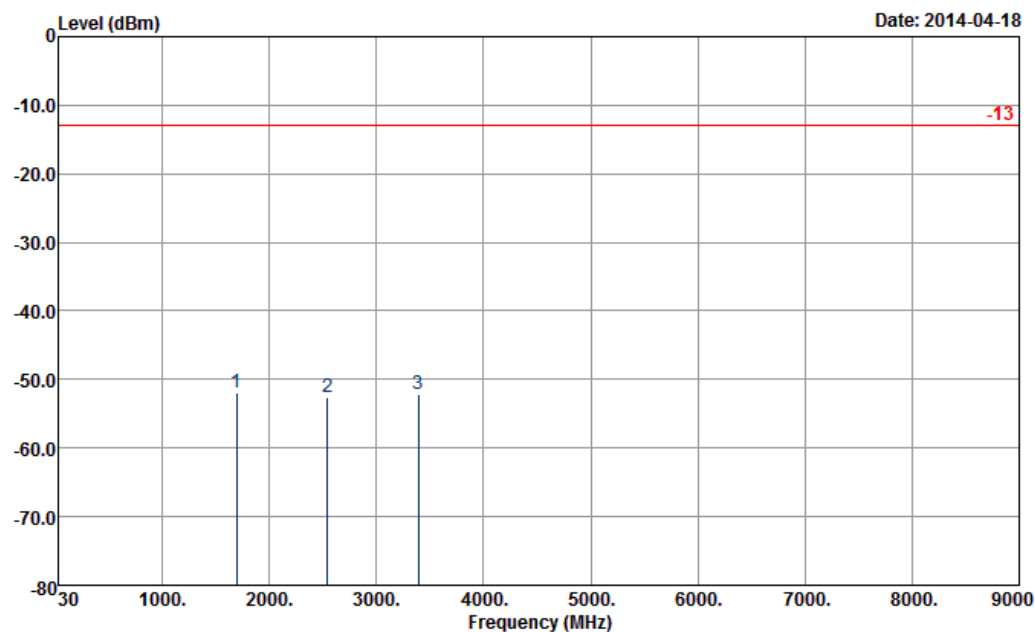


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1693	-49.92	-13	-36.92	-59.53	-53.8	1.57	5.45	H	Pass
2544	-49.24	-13	-36.24	-62.72	-53.5	2.02	6.28	H	Pass
3393	-51.20	-13	-38.20	-65.72	-57.1	2.3	8.20	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band V	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



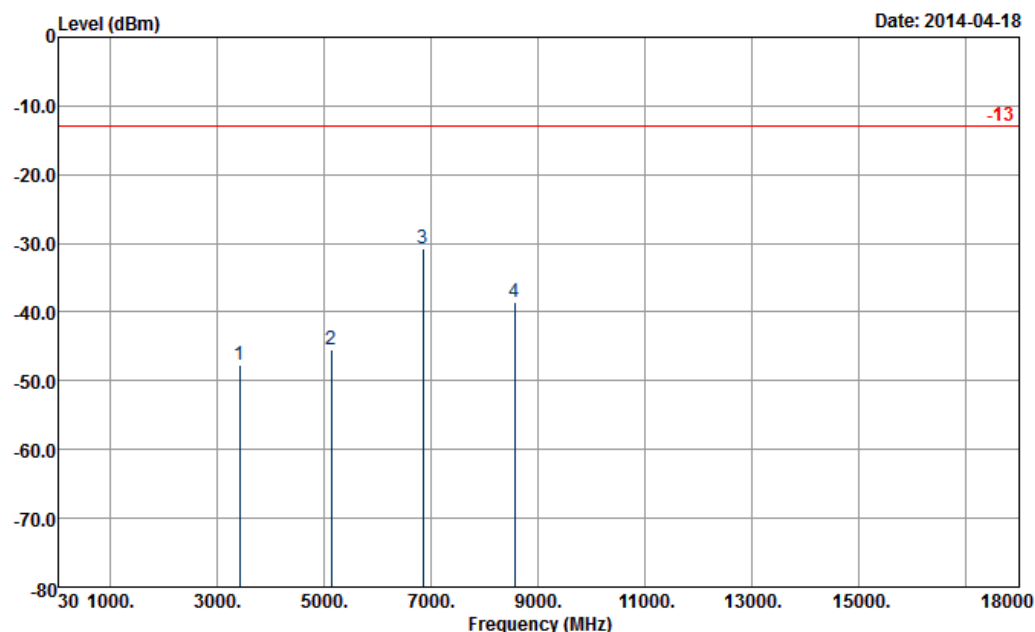
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1693	-51.92	-13	-38.92	-63.91	-55.8	1.57	5.45	V	Pass
2544	-52.54	-13	-39.54	-66	-56.8	2.02	6.28	V	Pass
3393	-52.10	-13	-39.10	-67.87	-58	2.3	8.20	V	Pass

Other harmonics are lower than background noise

<Low Channel>

Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

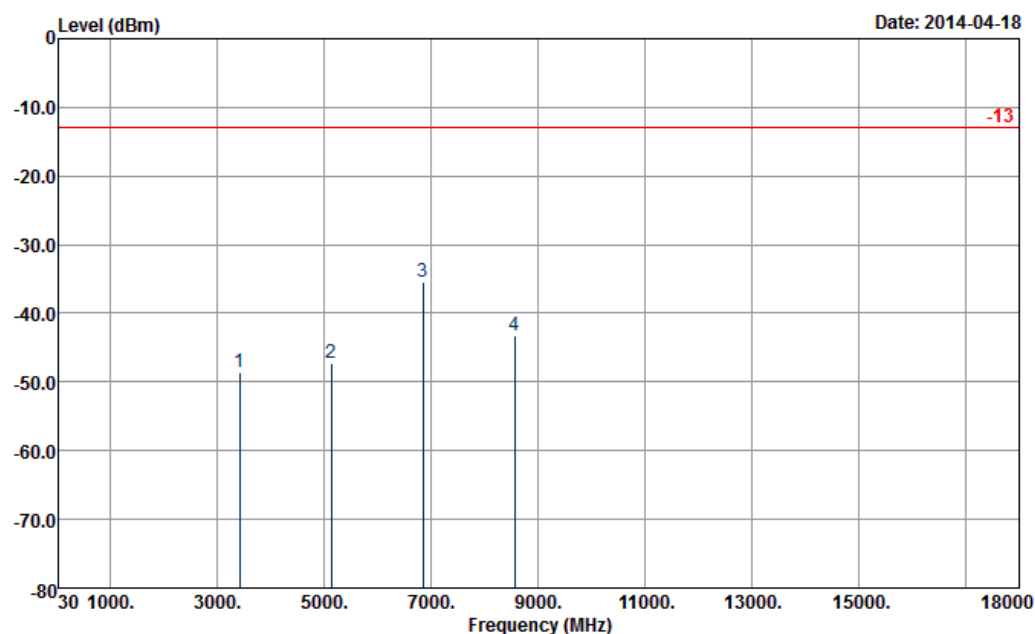


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-47.61	-13	-34.61	-61.78	-51.44	4.48	8.31	H	Pass
5136	-45.39	-13	-32.39	-64.78	-50.03	5.332	9.98	H	Pass
6848	-30.74	-13	-17.74	-55.97	-35.98	6.1	11.34	H	Pass
8560	-38.60	-13	-25.60	-65.26	-43.52	8.25	13.17	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



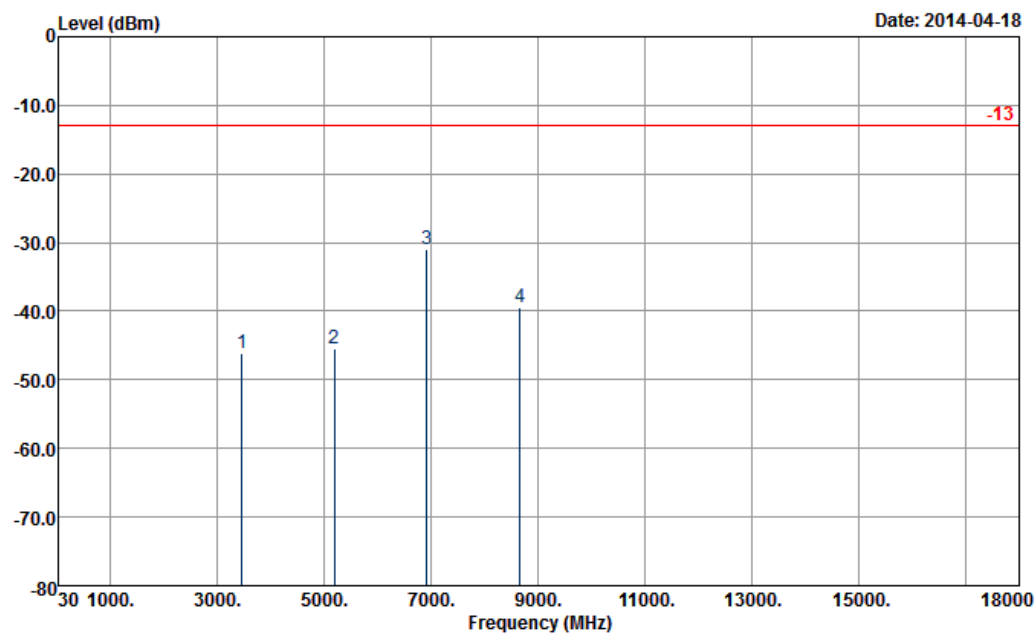
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-48.50	-13	-35.50	-64.1	-52.33	4.48	8.31	V	Pass
5140	-47.22	-13	-34.22	-66.22	-51.86	5.332	9.98	V	Pass
6848	-35.35	-13	-22.35	-60.02	-40.59	6.1	11.34	V	Pass
8560	-43.14	-13	-30.14	-68.97	-48.06	8.25	13.17	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

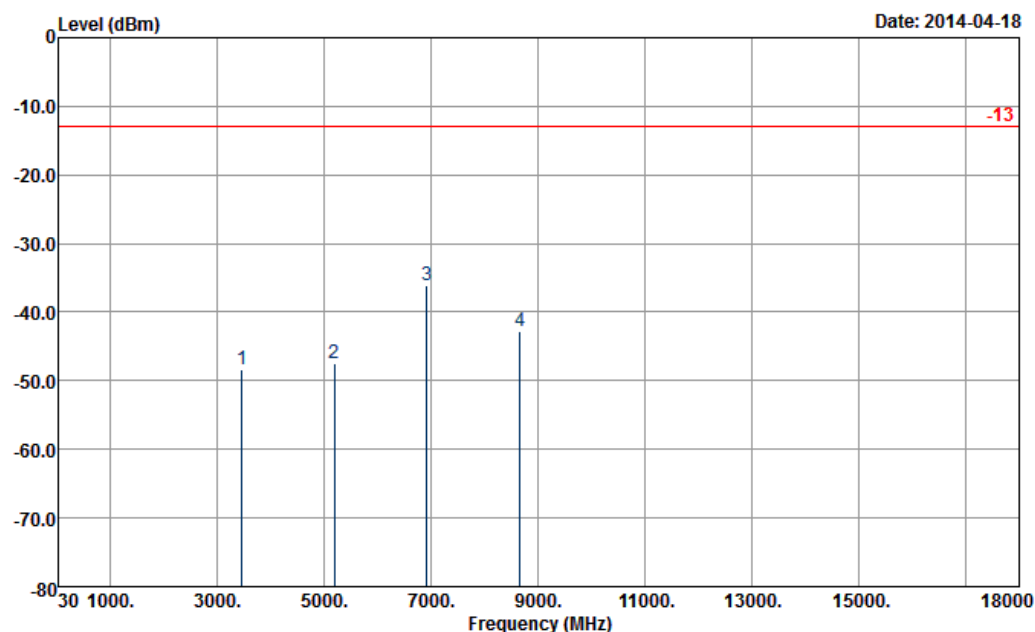


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-46.09	-13	-33.09	-60.39	-49.92	4.48	8.31	H	Pass
5198	-45.36	-13	-32.36	-64.15	-50	5.332	9.98	H	Pass
6927	-30.88	-13	-17.88	-56.98	-36.12	6.1	11.34	H	Pass
8670	-39.47	-13	-26.47	-64.97	-44.39	8.25	13.17	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



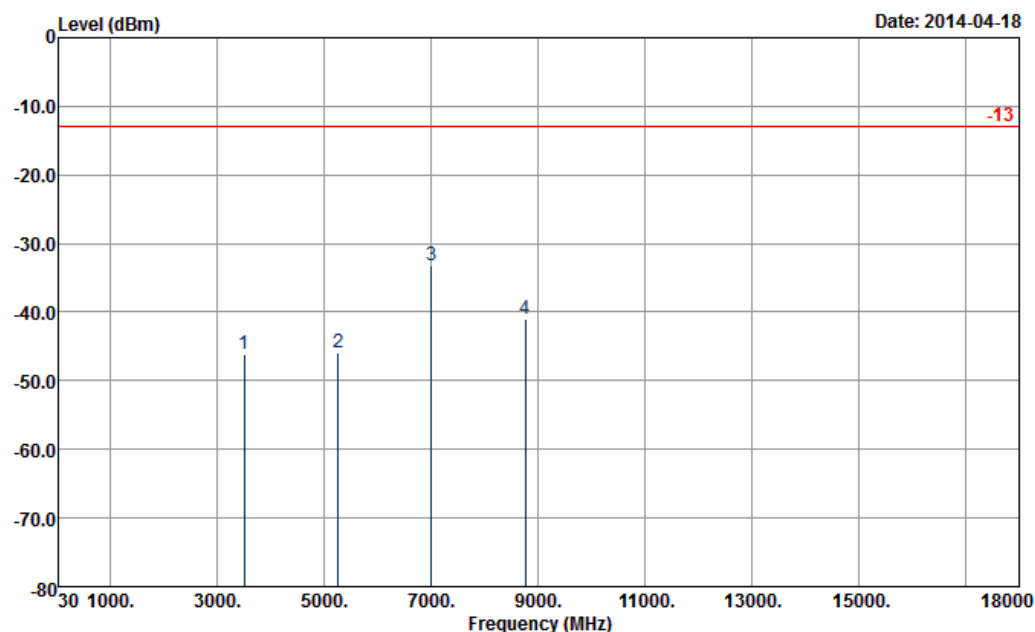
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-48.39	-13	-35.39	-63.91	-52.22	4.48	8.31	V	Pass
5198	-47.50	-13	-34.50	-66.33	-52.14	5.332	9.98	V	Pass
6927	-36.17	-13	-23.17	-61.5	-41.41	6.1	11.34	V	Pass
8670	-42.82	-13	-29.82	-68	-47.74	8.25	13.17	V	Pass

Other harmonics are lower than background noise

<High Channel>

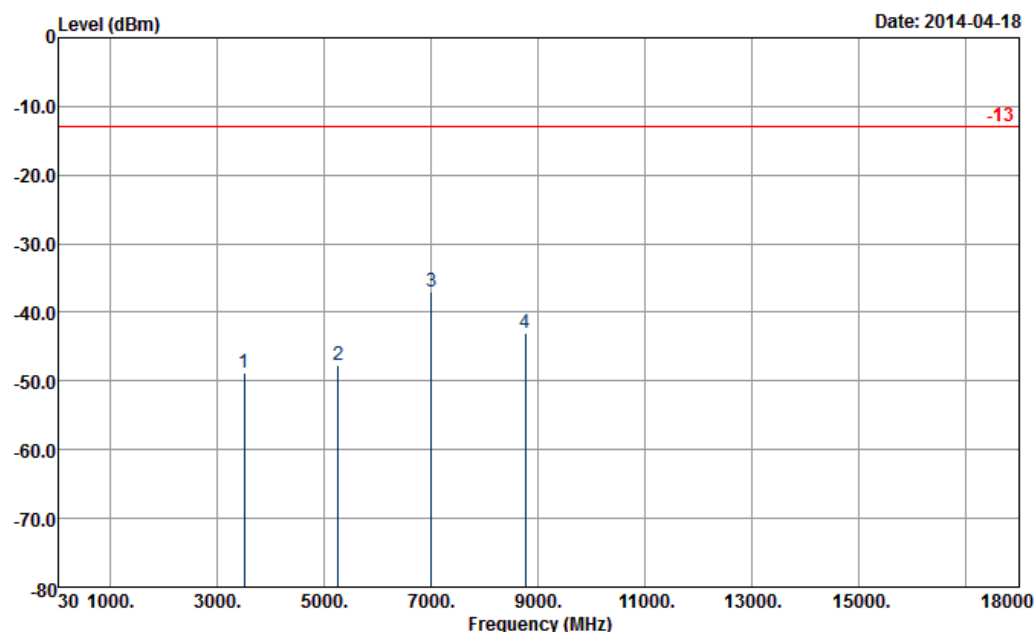
Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-46.05	-13	-33.05	-60.45	-50.32	4.16	8.43	H	Pass
5261	-45.91	-13	-32.91	-65.03	-50.87	5.13	10.09	H	Pass
7011	-33.24	-13	-20.24	-59.93	-38.52	6.15	11.43	H	Pass
8761	-40.96	-13	-27.96	-66.6	-46.02	8.09	13.15	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band IV	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (6 th , 7 th , 8 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



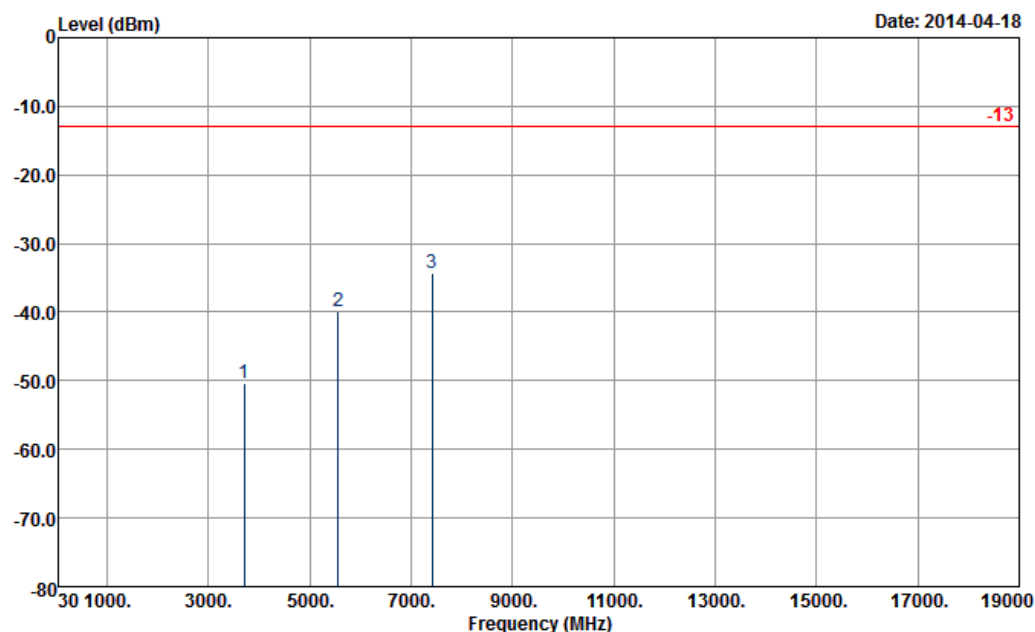
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-48.74	-13	-35.74	-64.29	-53.01	4.16	8.43	V	Pass
5261	-47.62	-13	-34.62	-66.78	-52.58	5.13	10.09	V	Pass
7011	-36.94	-13	-23.94	-62.59	-42.22	6.15	11.43	V	Pass
8761	-43.08	-13	-30.08	-68.58	-48.14	8.09	13.15	V	Pass

Other harmonics are lower than background noise

<Low Channel>

Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

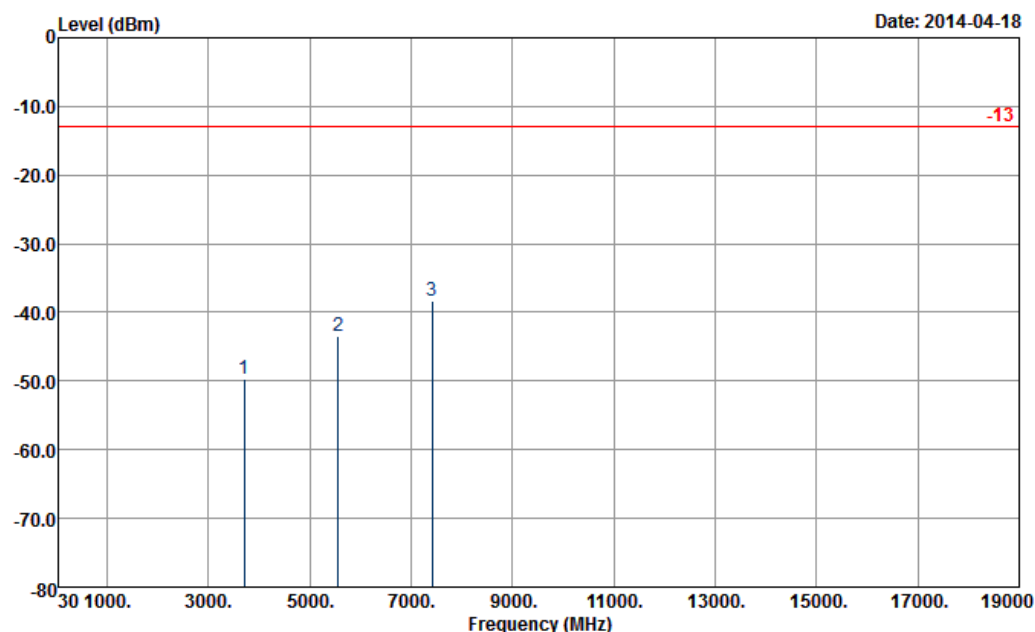


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3707	-50.35	-13	-37.35	-65.55	-56.5	2.59	8.74	H	Pass
5560	-39.84	-13	-26.84	-60.61	-47.5	3.04	10.70	H	Pass
7408	-34.36	-13	-21.36	-61.96	-43.1	3.28	12.02	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



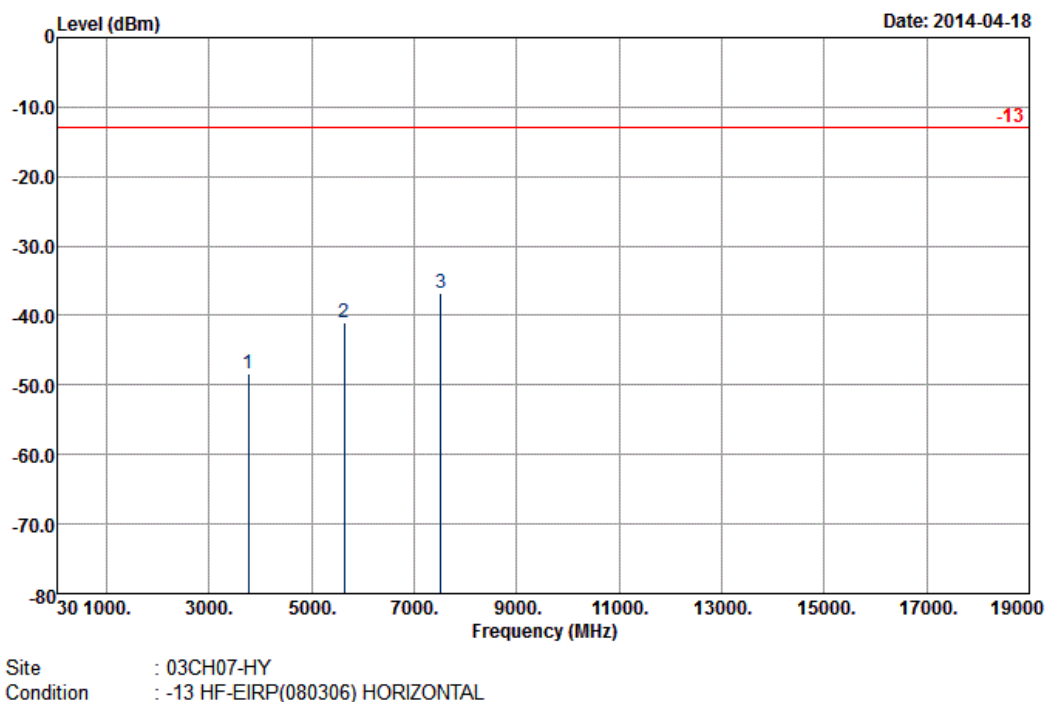
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3707	-49.75	-13	-36.75	-65.98	-55.9	2.59	8.74	V	Pass
5560	-43.44	-13	-30.44	-64.17	-51.1	3.04	10.70	V	Pass
7408	-38.36	-13	-25.36	-65.64	-47.1	3.28	12.02	V	Pass

Other harmonics are lower than background noise

<Middle Channel>

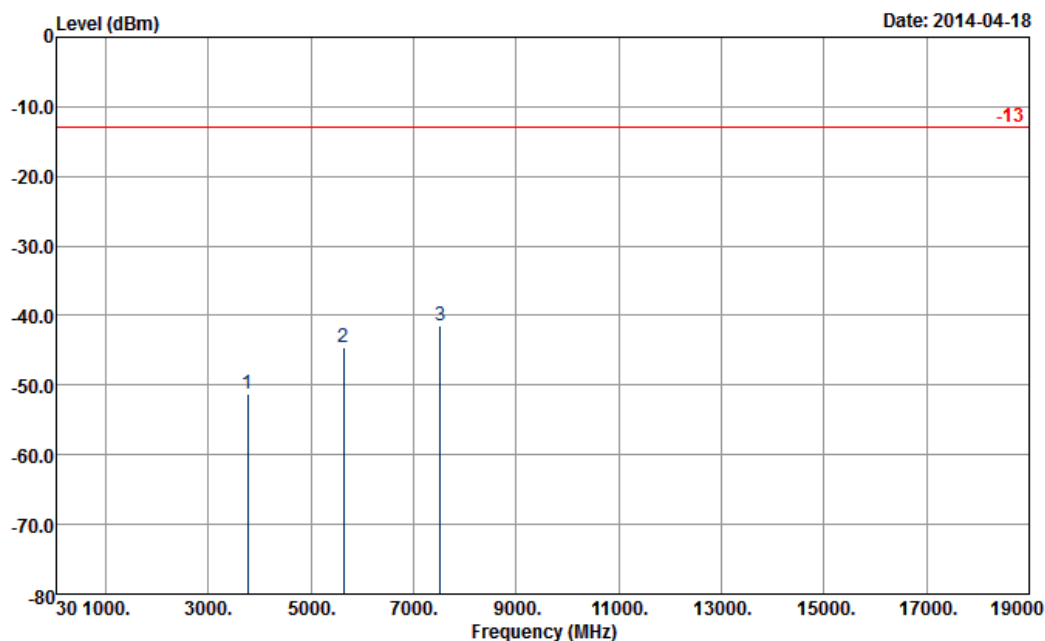
Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3758	-48.20	-13	-35.20	-63.75	-54.5	2.51	8.81	H	Pass
5639	-41.09	-13	-28.09	-62.27	-48.8	2.99	10.70	H	Pass
7522	-36.67	-13	-23.67	-64.21	-45.2	3.59	12.12	H	Pass

Other harmonics are lower than background noise

Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



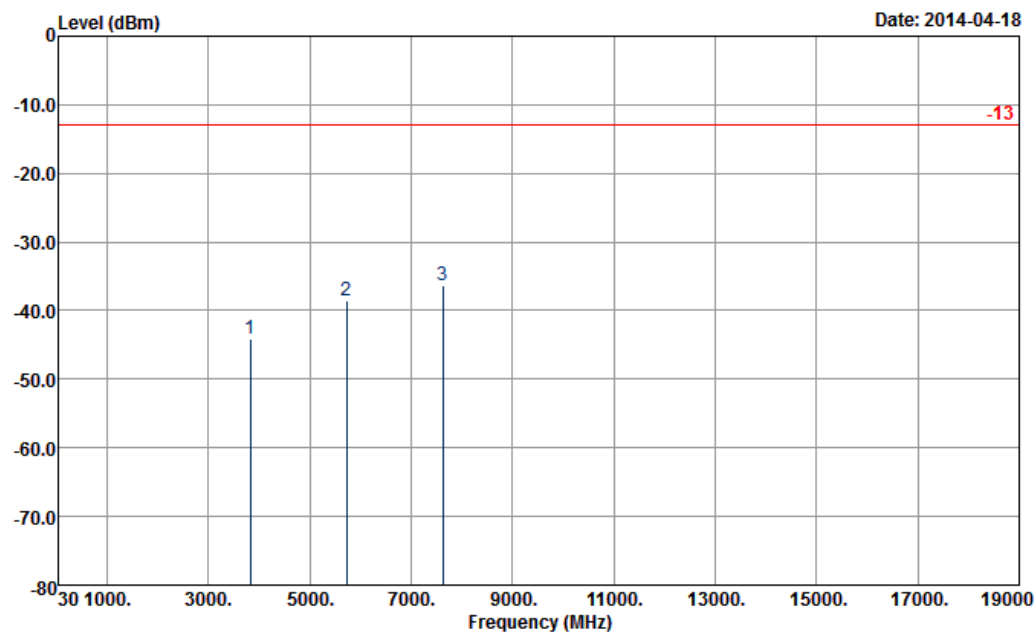
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-51.30	-13	-38.30	-67.83	-57.6	2.51	8.81	V	Pass
5639	-44.49	-13	-31.49	-65.16	-52.2	2.99	10.70	V	Pass
7520	-41.47	-13	-28.47	-68.23	-50	3.59	12.12	V	Pass

Other harmonics are lower than background noise

<High Channel>

Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Horizontal
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



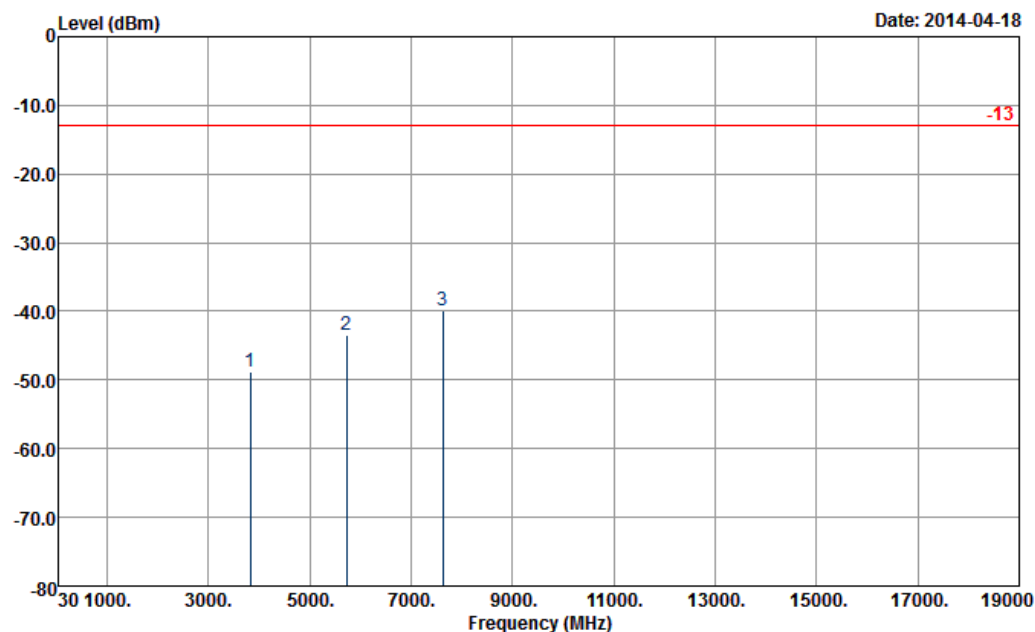
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3815	-44.09	-13	-31.09	-59.93	-50.5	2.47	8.88	H	Pass
5723	-38.50	-13	-25.50	-59.88	-46.2	3	10.70	H	Pass
7630	-36.32	-13	-23.32	-62.84	-45.1	3.43	12.21	H	Pass

Other harmonics are lower than background noise



Band :	WCDMA Band II	Temperature :	21~24°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	44~48%
Test Engineer :	Eric Shih	Polarization :	Vertical
Remark :	1. Spurious emissions within 30-1000MHz were found more than 20dB below limit line. 2. The harmonic (5 th , 6 th , 7 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3815	-48.79	-13	-35.79	-65.2	-55.2	2.47	8.88	V	Pass
5723	-43.40	-13	-30.40	-64.51	-51.1	3	10.70	V	Pass
7630	-39.92	-13	-26.92	-66.37	-48.7	3.43	12.21	V	Pass
Other harmonics are lower than background noise									

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

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

3.8.2 Measuring Instruments

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

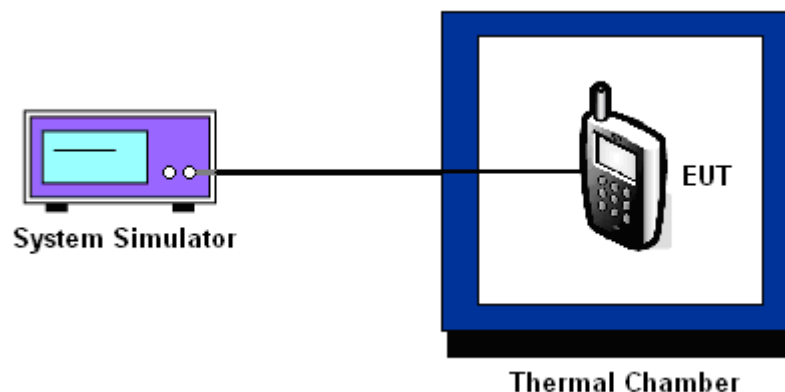
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

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

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel :	189
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	GSM	EDGE class 8	Result
	Deviation (ppm)	Deviation (ppm)	
50	0.0227	0.0395	PASS
40	0.0203	0.0383	
30	0.0155	0.0323	
20	0.0132	0.0335	
10	0.0167	0.0263	
0	0.0179	0.0239	
-10	0.0143	0.0275	
-20	0.0215	0.0287	
-30	0.0191	0.0323	



Band :	GSM 1900	Channel :	661
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	GPRS class 8	EDGE class 8	Result
	Deviation (ppm)	Deviation (ppm)	
50	0.0303	0.0436	PASS
40	0.0293	0.0394	
30	0.0266	0.0367	
20	0.0261	0.0372	
10	0.0271	0.0351	
0	0.0287	0.0383	
-10	0.0277	0.0399	
-20	0.0309	0.0415	
-30	0.0298	0.0410	

Band :	WCDMA Band V	Channel :	4182
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	RMC 12.2Kbps	Result
	Deviation (ppm)	
50	0.0096	PASS
40	0.0060	
30	0.0072	
20	0.0048	
10	0.0060	
0	0.0048	
-10	0.0072	
-20	0.0084	
-30	0.0084	

Band :	WCDMA Band IV	Channel :	1413
Limit (ppm) :	2.5	Frequency :	1732.6 MHz

Temperature (°C)	RMC 12.2Kbps	Result
	Deviation (ppm)	
50	0.0092	PASS
40	0.0063	
30	0.0052	
20	0.0040	
10	0.0058	
0	0.0046	
-10	0.0075	
-20	0.0081	
-30	0.0069	

Band :	WCDMA Band II	Channel :	9400
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	RMC 12.2Kbps	Result
	Deviation (ppm)	
-30	0.0048	PASS
-20	0.0053	
-10	0.0043	
0	0.0037	
10	0.0043	
20	0.0037	
30	0.0048	
40	0.0053	
50	0.0064	

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	4.2	0.0167	2.5	PASS
		3.8	0.0132		
		BEP	0.0191		
	EDGE class 8	4.2	0.0347		
		3.8	0.0299		
		BEP	0.0371		
GSM 1900 CH661	GPRS class 8	4.2	0.0255		
		3.8	0.0271		
		BEP	0.0266		
	EDGE class 8	4.2	0.0356		
		3.8	0.0351		
		BEP	0.0367		
WCDMA Band V CH4182	RMC 12.2Kbps	4.2	0.0048		
		3.8	0.0072		
		BEP	0.0060		
WCDMA Band IV CH1413	RMC 12.2Kbps	4.2	0.0040		
		3.8	0.0046		
		BEP	0.0063		
WCDMA Band II CH9400	RMC 12.2Kbps	4.2	0.0048		
		3.8	0.0037		
		BEP	0.0043		

Note:

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.4 V.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	Rohde & Schwarz	CMU200	117995	N/A	Aug. 01, 2013	Apr. 15, 2014	Jul. 31, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	Apr. 15, 2014	Jun. 06, 2014	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 19, 2013	Apr. 15, 2014	Jul. 18, 2014	Conducted (TH02-HY)
Filter	WAINWRIGHT	whkx2..0/18g	N/A	2GHighPass Filter	Nov. 28, 2013	Apr. 15, 2014	Nov. 27, 2014	Conducted (TH02-HY)
RF cable	WOKEN	SMA(M)-SMA(M) for	S05-130703-32	N/A	Jul. 09, 2013	Apr. 15, 2014	Jul. 08, 2014	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 07, 2013	Apr. 15, 2014	May 06, 2014	Conducted (TH02-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	Apr. 18, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	Apr. 18, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 03, 2013	Apr. 18, 2014	Oct. 02, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1GHz	Mar. 17, 2014	Apr. 18, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 29, 2013	Apr. 18, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Filter	Microwave Circuits	H1G013G1	SN477215	1GHz HPF	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Filter	Wainwright Instruments	WHKX1.5G/15G-10SS	SN32	1.5GHz HPF	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Filter	Wainwright Instruments	WLKS1200-8SS	SN3	1.2GHz LPF	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Filter	Wainwright Instruments	WHKX2.0/18G-10SS	SN12	2GHz HPF	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Filter	Microwave Circuits	H3G018G1	SN477220	3GHz HPF	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Notch Filter	Wainwright	WRCT 1800/2000-2	SN1	GSM 1900	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Notch Filter	Wainwright	WRCG 824/849/814	SN35	GSM850 / WCDMA 850	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
HF RF Cable	HUBER SUHNER	SUCOFLEX 104	38411/6	1GHz ~ 18GHz	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
LF RF Cable	Warison+HUBER SUHNER	WCBA-WC04NM.NM2	N/A	30MHz ~ 1GHz	Nov. 28, 2013	Apr. 18, 2014	Nov. 27, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Apr. 18, 2014	N/A	Radiation (03CH07-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna Mast	ChainTek	M-400-0	114/8000604/ L	N/A	N/A	Apr. 18, 2014	N/A	Radiation (03CH07-HY)
Test Software	Audix	E3	Version 6.2009-08-24	N/A	N/A	Apr. 18, 2014	N/A	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 07, 2013	Apr. 18, 2014	May 06, 2014	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50
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