S T S L A B

RADIO TEST REPORT

Report No:STS1807042W11

Issued for

Shanghai Unihertz E-Commerce Co., Ltd

Room 302, No. 5, Lane 59, Shennan Rd, Minhang district,
Shanghai, China 201108

Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	Atom
Series Model:	N/A
FCC ID:	2AK6CATOM
Test Standard:	FCC Part 22H and 24E, 27

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TEST RESULT CERTIFICATION

Applicant's name ..... : Shanghai Unihertz E-Commerce Co., Ltd

Address..... : Room 302, No. 5, Lane 59, Shennan Rd, Minhang district, Shanghai, China 201108

Manufacture's Name ..... : OBLUE Communication Technology Co.,Ltd.

Address..... : Room 406, Hivac Building,No. 2 North keji Rd,North Hi-Tech Industry Park,Nanshan district, shenzhen, China 201108

Product discription

Product Name ..... : Smart phone

Brand Name ..... : Unihertz

Model Name..... : Atom

Series Model ..... : N/A

Test Standards ..... : FCC Part 22H and 24E, 27

Test procedure ..... KDB 971168 D01 v03r01,ANSI C63.26(2015)

This device described above has been tested by STS and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test .....

Date of performance of tests..... 25 July 2018~20 Aug. 2018

Date of Issue ..... 20 Aug. 2018

Test Result ..... **Pass**

Testing Engineer : Chris chen

(Chris chen)

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(Sean she)

Authorized Signatory : Vita Li

(Vita Li)

TESTING CONSULTING SOLUTION CERTIFICATION STS APPROVAL

TABLE OF CONTENTS Page

1 INTRODUCTION 6
1.1 TEST FACTORY 6
1.2 MEASUREMENT UNCERTAINTY 6
2 PRODUCT INFORMATION 7
3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 9
4 MEASUREMENT INSTRUMENTS 10
5 TEST ITEMS 11
5.1 CONDUCTED OUTPUT POWER 11
5.2 PEAK TO AVERAGE RATIO 12
5.3 TRANSMITTER RADIATED POWER (EIRP/ERP) 13
5.4 OCCUPIED BANDWIDTH 14
5.5 FREQUENCY STABILITY 15
5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS 16
5.7 BAND EDGE 17
5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 18
APPENDIX A.TESTRESULT 20
A1.CONDUCTED OUTPUT POWER 20
A2. PEAK-TO-AVERAGE RADIO 26
A3. TRANSMITTER RADIATED POWER (EIRP/ERP) 29
A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26DB BANDWIDTH)34
A5.FREQUENCY STABILITY 48
A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS 55
A7. BAND EDGE 66
A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 77
APPENDIX BPHOTOS OF TEST SETUP 88

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	20 Aug. 2018	STS1807042W01	ALL	Initial Issue

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1049	Conducted OutputPower	Reporting Only	PASS	
2.0146 24.232	Peak-to-AverageRatio	< 13 dB	PASS	
2.1046 22.913 24.232 27.50	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27)	PASS	
2.1049 22.917 24.238 27.53	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235 27.54	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27)	PASS	
2.1051 22.917 24.238 27.53	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238 27.53	Band Edge	< 43+10log10(P[Watts])	PASS	

1 INTRODUCTION

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.
Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.: L7649; FCC Registration No.: 625569
IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements ofANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 toindicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPRmeasurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly tospecified limits to determine compliance。

No.	Item	Uncertainty
1	RF power,conducted	±0.70dB
2	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5℃
9	Humidity	±2%

2 PRODUCT INFORMATION

Product Name	Smart phone
Hardware version number:	G35_V1.2
Software version number:	alps-mp-01.mp1
FCC ID:	2AK6CATOM
Tx Frequency:	GSM/GPRS/EDGE: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz CDMA: BC0: 824.70 MHz~ 848.31 MHz BC1: 1851.25 MHz~ 1908.75 MHz
Rx Frequency:	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz CDMA: BC0: 869.70 MHz~ 894.30 MHz BC1: 1931.25 MHz~ 1988.75 MHz
Max RF Output Power:	GSM850:32.28dBm, PCS1900:29.06dBm GPRS850(1-Slot):32.26dBm, GPRS1900(1-Slot):29.05dBm GPRS850(2-Slot):31.79dBm, GPRS1900(2-Slot):28.61Bm GPRS850(3-Slot):31.34dBm, GPRS1900(3-Slot):28.20dBm GPRS850(4-Slot):30.90dBm, GPRS1900(4-Slot):27.75dBm EDGE 850(1-Slot):27.20dBm, EDGE 1900(1-Slot):24.80dBm EDGE 850(2-Slot):26.42dBm, EDGE 1900(2-Slot):24.05dBm EDGE 850(3-Slot):25.67dBm, EDGE 1900(3-Slot):23.25dBm EDGE 850(4-Slot):24.94dBm, EDGE 1900(4-Slot):22.47dBm WCDMABand V:22.86dBm, WCDMA Band II:22.40dBm WCDMA Band IV:22.20dBm CDMA BC0:23.35dBm, CDMA BC1:20.31dBm
Type of Emission:	GSM(850): 321KGXW; GSM(1900): 320KGXW GPRS(850): 315KGXW; GPRS(1900): 324KGXW EDGE(850): 323KG7W; EDGE(1900): 319KG7W WCDMA850: 4M85F9W WCDMA1900: 4M67F9W WCDMA1700: 4M68F9W CDMA BC0: 1M43F9W CDMA BC1: 1M44F9W
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested
Antenna:	PIFA Antenna

Antenna gain:	GSM 850: -0.47dBi ,PCS 1900:0.45dBi WCDMA 850: -0.47dBi, WCDMA1900: 0.45dBi, WCDMA1700: 0.45dBi CDMA BC0: -0.47dBi, CDMA BC1: 0.45dBi
Power Supply:	DC 3.85V by battery
Battery parameter:	Capacity: 2000mAh, Rated Voltage: 3.85V
Adapter:	Input: AC100-240V, 300mA, 50/60Hz Output: DC 5V, 1500mA
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.5 V to 4.4 V (Nominal DC3.85V)
Extreme Temp. Tolerance:	-30℃ to +50℃
*** Note: The High Voltage 4.4 V and Low Voltage 3.5 V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.*	

3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	TEST MODES	
BAND	RADIATED TCS	CONDUCTED TCS
GSM 850	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 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

4 MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	102086	2017.10.15	2018.10.14
Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Universal Radio Communication Tester	R&S	CMW500	131428	2018.03.11	2019.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2019.03.10
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2018.03.11	2019.03.10
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
Band Reject filter(1920-1980MHz)	COM-MW	ZBSF-1920-1980	0092	2017.10.15	2018.10.14
Band Reject filter(880-915MHz)	COM-MW	ZBSF-C897.5-35	707	2017.10.15	2018.10.14
Band Reject filter(1710-1785MHz)	COM-MW	ZBSF-C1747.5-75	708	2017.10.15	2018.10.14
Band Reject filter(1850-1910MHz)	COM-MW	ZBSF-C1880-60	709	2017.10.15	2018.10.14
Band Reject filter(2500-2570MHz)	COM-MW	ZBSF-C2535-70	710	2017.10.15	2018.10.14
Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	2017.10.15	2018.10.14
trun table	EM	SC100_1	60531	N/A	N/A
Antnna mast	EM	SC100	N/A	N/A	N/A

Equipment with a calibration date of “NCR” shown in this list was not used to make direct calibrated measurements.

5 TEST ITEMS

5.1 CONDUCTED OUTPUT POWER

Test overview

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.

Test procedures

1. The transmitter output port was connected to the system simulator.

2. Set eut at maximum power through the system simulator.

3. Select lowest, middle, and highest channels for each band and different modulation.

4. Measure and record the power level from the system simulator.

Test setup

5.2 PEAK TO AVERAGE RATIO

TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

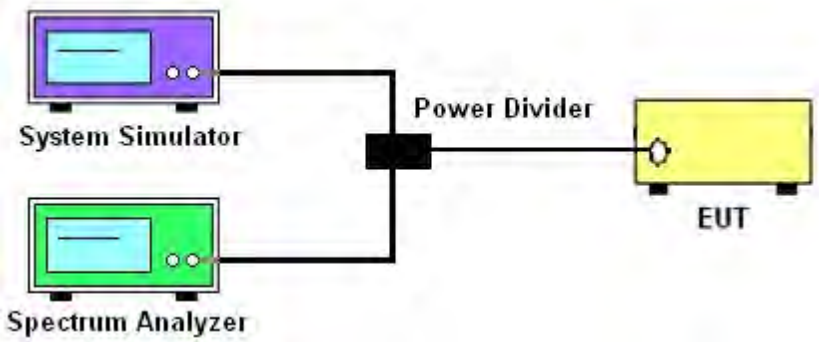
1. The testing follows fcckdb 971168 v03r01 section

2. The eut was connected to the and peak and av system simulator& spectrum analysis reads

3. Select lowest, middle, and highest channels for each band and different modulation.

4. Set the test probe and measure average power of the spectrum analysis

TEST SETUP



5.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

TEST PROCEDURE

1. The testing follows FCC KDB 971168 D01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2 (for GSM/GPRS/EDGE) and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at 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/ERP was calculated with the correction factor,

ERP/EIRP = P.SG + GT – LC

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMe as, typically dBW or dBm);

PMeas(PK) = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

5.4 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

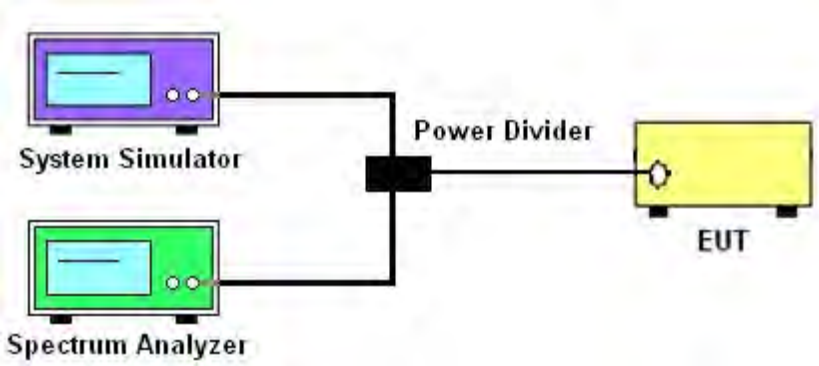
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



5.5 FREQUENCY STABILITY

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure

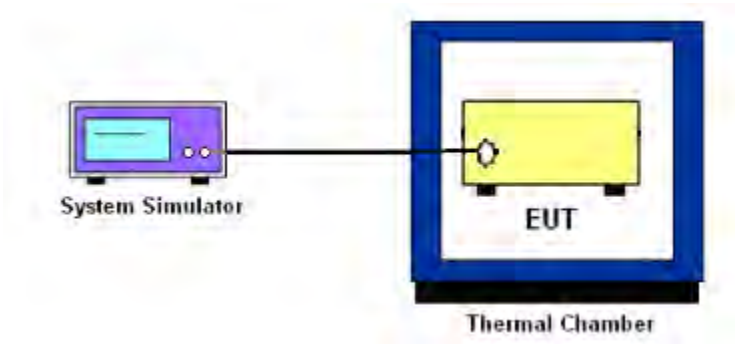
Temperature Variation

1. The testing follows fcckdb 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

TEST SETUP



5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Overview

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.

Test procedure

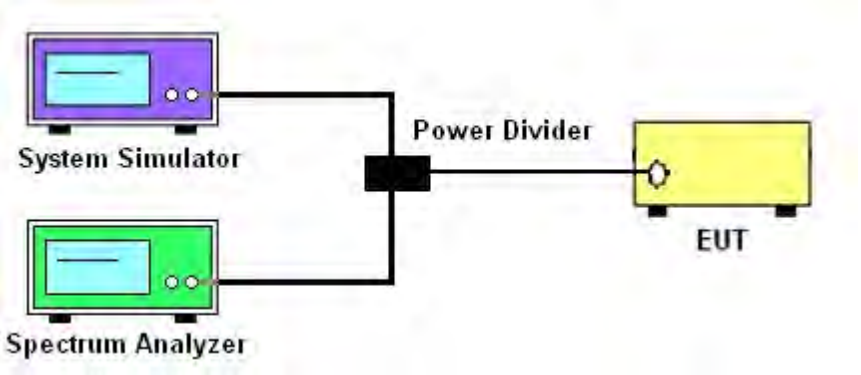
1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.5
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

Test Setup



5.7 BAND EDGE

OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

TEST PROCEDURE

1.The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7

2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.

3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.

4. 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.

5. The band edges of low and high channels for the highest RF powers were measured.

6.The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

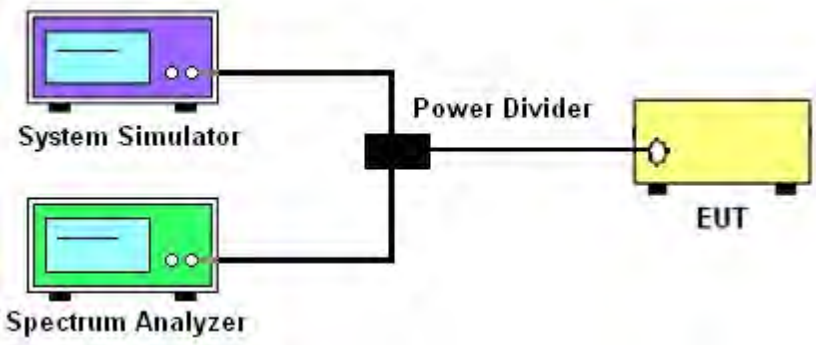
7.The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

TEST SETUP



5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Test overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signal-soperating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas.Measurements on signals operating above 1GHz are performed using vertically and horizontally polarizedhorn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.

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

Test procedure

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5.No. of sweep points > 2 x span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at 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/ERP was calculated with the correction factor,

ERP/EIRP = P.SG + GT – LC

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, t ypically dBW or dBm);

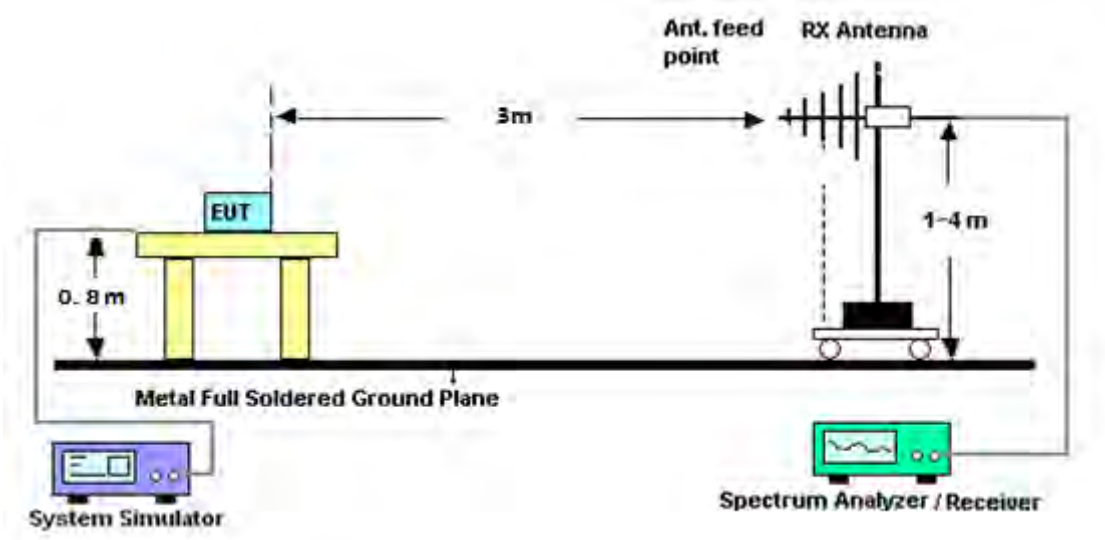
P.SG = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

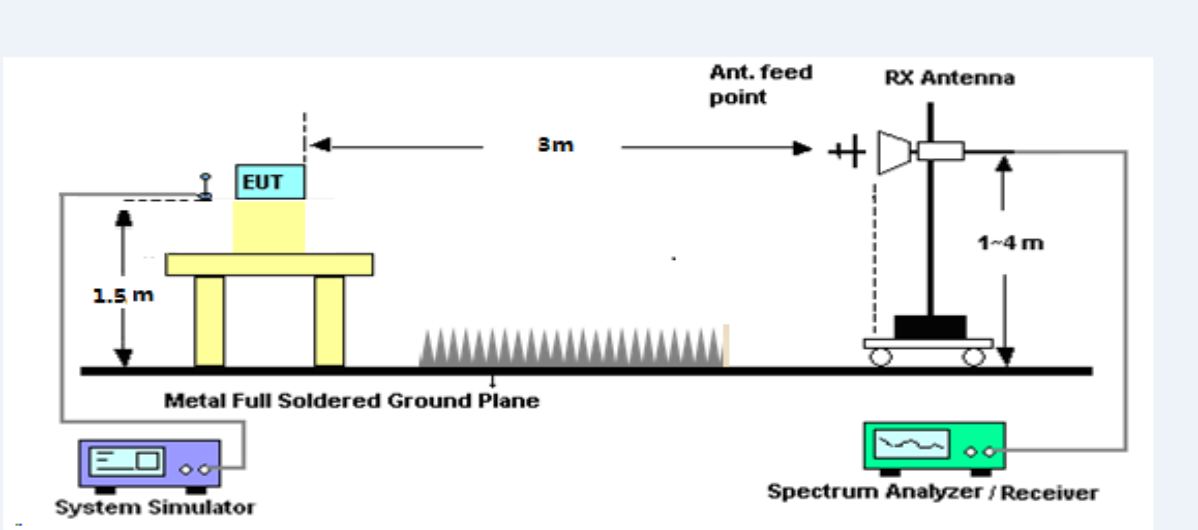
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



APPENDIX A.TESTRESULT
A1.CONDUCTED OUTPUT POWER
GSM 850:

Mode	Frequency (MHz)	AVG Power(dBm)
GSM	824.2	32.28
	836.6	32.20
	848.8	32.10
GPRS(GMSK,1-Slot)	824.2	32.26
	836.6	32.18
	848.8	32.09
GPRS(GMSK,2-Slot)	824.2	31.79
	836.6	31.71
	848.8	31.65
GPRS(GMSK,3-Slot)	824.2	31.34
	836.6	31.31
	848.8	31.19
GPRS(GMSK,4-Slot)	824.2	30.90
	836.6	30.86
	848.8	30.71
EGPRS(8PSK,1-Slot)	824.2	27.20
	836.6	27.08
	848.8	26.89
EGPRS(8PSK,2-Slot)	824.2	26.42
	836.6	26.38
	848.8	26.14
EGPRS(8PSK,3-Slot)	824.2	25.67
	836.6	25.67
	848.8	25.42
EGPRS(8PSK,4-Slot)	824.2	24.92
	836.6	24.94
	848.8	24.67

PCS 1900:

Mode	Frequency (MHz)	AVG Power(dBm)
GSM	1850.2	29.05
	1880.0	**29.06**
	1909.8	28.68
GPRS(GMSK,1-Slot)	1850.2	29.03
	1880.0	29.05
	1909.8	28.65
GPRS(GMSK,2-Slot)	1850.2	28.61
	1880.0	28.56
	1909.8	28.25
GPRS(GMSK,3-Slot)	1850.2	28.20
	1880.0	28.09
	1909.8	27.79
GPRS(GMSK,4-Slot)	1850.2	27.75
	1880.0	27.69
	1909.8	27.34
EGPRS(8PSK,1-Slot)	1850.2	24.49
	1880.0	24.4
	1909.8	24.8
EGPRS(8PSK,2-Slot)	1850.2	23.73
	1880.0	23.66
	1909.8	24.05
EGPRS(8PSK,3-Slot)	1850.2	22.99
	1880.0	22.88
	1909.8	23.25
EGPRS(8PSK,4-Slot)	1850.2	22.21
	1880.0	22.11
	1909.8	22.47

UMTS BAND V

Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	22.82
	836.6	22.84
	846.6	**22.86**
HSDPA Subtest 1	826.4	22.01
	836.6	21.93
	846.6	21.70
HSDPA Subtest 2	826.4	21.57
	836.6	21.46
	846.6	21.24
HSDPA Subtest 3	826.4	21.11
	836.6	20.98
	846.6	20.76
HSDPA Subtest 4	826.4	20.68
	836.6	20.51
	846.6	20.33
HSUPA Subtest 1	826.4	21.95
	836.6	21.83
	846.6	21.23
HSUPA Subtest 2	826.4	21.06
	836.6	20.93
	846.6	20.28
HSUPA Subtest 3	826.4	20.92
	836.6	20.44
	846.6	19.79
HSUPA Subtest 4	826.4	20.52
	836.6	19.96
	846.6	19.36
HSUPA Subtest 5	826.4	19.04
	836.6	18.53
	846.6	17.92

UMTS BAND II

Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	**22.40**
	1880	22.10
	1907.6	21.93
HSDPA Subtest 1	1852.4	21.26
	1880	21.06
	1907.6	20.86
HSDPA Subtest 2	1852.4	20.84
	1880	20.62
	1907.6	20.44
HSDPA Subtest 3	1852.4	20.53
	1880	20.16
	1907.6	20.07
HSDPA Subtest 4	1852.4	20.10
	1880	19.84
	1907.6	19.67
HSUPA Subtest 1	1852.4	21.17
	1880	21.04
	1907.6	20.39
HSUPA Subtest 2	1852.4	20.17
	1880	20.09
	1907.6	19.48
HSUPA Subtest 3	1852.4	20.04
	1880	19.69
	1907.6	19.13
HSUPA Subtest 4	1852.4	19.55
	1880	19.21
	1907.6	18.64
HSUPA Subtest 5	1852.4	18.06
	1880	17.75
	1907.6	17.21

UMTS BAND IV

Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1712.6	21.98
	1740	22.06
	1752.4	**22.20**
HSDPA Subtest 1	1712.6	20.94
	1740	21.05
	1752.4	21.15
HSDPA Subtest 2	1712.6	20.54
	1740	20.61
	1752.4	20.66
HSDPA Subtest 3	1712.6	20.24
	1740	20.14
	1752.4	20.33
HSDPA Subtest 4	1712.6	19.85
	1740	19.69
	1752.4	19.90
HSUPA Subtest 1	1712.6	20.89
	1740	21.02
	1752.4	20.69
HSUPA Subtest 2	1712.6	20.02
	1740	20.03
	1752.4	19.77
HSUPA Subtest 3	1712.6	19.91
	1740	19.61
	1752.4	19.46
HSUPA Subtest 4	1712.6	19.53
	1740	19.13
	1752.4	19.12
HSUPA Subtest 5	1712.6	18.13
	1740	17.67
	1752.4	17.65

CDMA BC0

Mode	Frequency(MHz)	AVG Power
CDMA BC0	824.7	23.28
	836.52	**23.35**
	848.31	23.26
EVDO BC0	824.7	23.22
	836.52	23.30
	848.31	23.21

CDMA BC1

CDMA BC1		
Mode	Frequency(MHz)	AVG Power
CDMA BC1	1851.25	20.23
	1880	**20.31**
	1908.75	19.63
EVDO BC1	1851.25	20.18
	1880	20.27
	1908.75	19.59

A2. PEAK-TO-AVERAGE RADIO

Mode	Frequency (MHz)	PAR (dB)
GSM850	824.2	0.16
	836.6	0.16
	848.8	0.17
GPRS850	824.2	0.17
	836.6	0.17
	848.8	0.17
EDGE850(8PSK)	824.2	3.02
	836.6	3.06
	848.8	3.06
PCS1900	1850.2	0.14
	1880	0.14
	1909.8	0.17
GPRS1900	1850.2	0.16
	1880	0.13
	1909.8	0.13
EDGE1900(8PSK)	1850.2	3.04
	1880	3.06
	1909.8	3.01

Mode	Frequency (MHz)	PAR (dB)
WCDMA 850 RMC	826.4	3.12
	836.6	3.15
	846.6	3.21
HSDPA 850	826.4	3.78
	836.6	3.68
	846.6	4.00
HSUPA 850	826.4	3.93
	836.6	3.81
	846.6	3.83
WCDMA 1900 RMC	1852.4	3.17
	1880	3.19
	1907.6	3.16
HSDPA 1900	1852.4	3.84
	1880	3.86
	1907.6	3.83
HSUPA 1900	1852.4	3.44
	1880	3.36
	1907.6	3.69
WCDMA 1700 RMC	1712.6	3.04
	1740	2.78
	1752.4	3.02
HSDPA 1700	1712.6	3.78
	1740	3.62
	1752.4	3.79
HSUPA 1700	1712.6	3.45
	1740	3.14
	1752.4	3.51

Mode	Frequency (MHz)	PAR
CDMA BC0	824.7	4.19
	836.52	4.34
	848.31	4.33
EVDO BC0	824.7	3.89
	836.52	3.76
	848.31	3.78
CDMA BC1	1851.25	4.12
	1880	4.22
	1908.75	4.11
EVDO BC1	1851.25	3.67
	1880	3.79
	1908.75	3.69

NOTE:Test chart See Appendix D

A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

Radiated Power (ERP) for GSM 850 MHZ							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	23.65	0.44	6.5	29.71	Horizontal	Pass
	824.2	25.56	0.44	6.5	**31.62**	Vertical	Pass
	836.6	23.66	0.45	6.5	29.71	Horizontal	Pass
	836.6	25.40	0.45	6.5	31.45	Vertical	Pass
	848.8	23.55	0.46	6.5	29.59	Horizontal	Pass
	848.8	25.34	0.46	6.5	31.38	Vertical	Pass
GPRS850	824.2	23.78	0.44	6.5	29.84	Horizontal	Pass
	824.2	25.36	0.44	6.5	31.42	Vertical	Pass
	836.6	23.58	0.45	6.5	29.63	Horizontal	Pass
	836.6	25.38	0.45	6.5	**31.43**	Vertical	Pass
	848.8	23.62	0.46	6.5	29.66	Horizontal	Pass
	848.8	25.16	0.46	6.5	31.20	Vertical	Pass
EDGE850	824.2	23.74	0.44	6.5	29.80	Horizontal	Pass
	824.2	25.51	0.44	6.5	**31.57**	Vertical	Pass
	836.6	23.57	0.45	6.5	29.62	Horizontal	Pass
	836.6	25.29	0.45	6.5	31.34	Vertical	Pass
	848.8	23.59	0.46	6.5	29.63	Horizontal	Pass
	848.8	25.07	0.46	6.5	31.11	Vertical	Pass
Limit	E.R.P＜7W=38.45dBm						

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP.	
PCS1900	1850.2	18.36	2.41	10.35	26.3	Horizontal	Pass
	1850.2	20.3	2.41	10.35	28.24	Vertical	Pass
	1880	18.67	2.42	10.35	26.6	Horizontal	Pass
	1880	20.43	2.42	10.35	**28.36**	Vertical	Pass
	1909.8	18.12	2.43	10.35	26.04	Horizontal	Pass
	1909.8	20	2.43	10.35	27.92	Vertical	Pass
GPRS1900	1850.2	18.47	2.41	10.35	26.41	Horizontal	Pass
	1850.2	20.25	2.41	10.35	**28.19**	Vertical	Pass
	1880	18.58	2.42	10.35	26.51	Horizontal	Pass
	1880	20.15	2.42	10.35	28.08	Vertical	Pass
	1909.8	18.25	2.43	10.35	26.17	Horizontal	Pass
	1909.8	19.97	2.43	10.35	27.89	Vertical	Pass
EDGE1900	1850.2	18.39	2.41	10.35	26.33	Horizontal	Pass
	1850.2	20.02	2.41	10.35	27.96	Vertical	Pass
	1880	18.68	2.42	10.35	26.61	Horizontal	Pass
	1880	20.33	2.42	10.35	**28.26**	Vertical	Pass
	1909.8	18.15	2.43	10.35	26.07	Horizontal	Pass
	1909.8	19.82	2.43	10.35	27.74	Vertical	Pass
Limit	E.I.R.P＜2W=33dBm						

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

Radiated Power (ERP) for WCDMA Band V							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P (dBm)	Polarization Of Max.ERP	
Band V	826.4	14.22	0.44	6.5	20.28	Horizontal	Pass
	826.4	16.16	0.44	6.5	22.22	Vertical	Pass
	835	14.31	0.45	6.5	20.36	Horizontal	Pass
	835	16.19	0.45	6.5	**22.24**	Vertical	Pass
	846.4	14.16	0.46	6.5	20.20	Horizontal	Pass
	846.4	16.12	0.46	6.5	22.16	Vertical	Pass
Limit	E.R.P＜7W=38.45dBm						

Radiated Power (EIRP) for WCDMA Band II							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max.EIRP	
Band II	1852.4	11.95	2.41	10.35	19.89	Horizontal	Pass
	1852.4	13.88	2.41	10.35	**21.82**	Vertical	Pass
	1880	11.69	2.42	10.35	19.62	Horizontal	Pass
	1880	13.5	2.42	10.35	21.43	Vertical	Pass
	1907.4	11.32	2.43	10.35	19.24	Horizontal	Pass
	1907.4	13.26	2.43	10.35	21.18	Vertical	Pass
Limit	E.I.R.P＜2W=33dBm						

Radiated Power (EIRP) for WCDMA Band IV							
Mode	Frequency	Result					Conclusion
		S G. Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max.EIRP	
Band II	1712.6	11.38	2.07	10.13	19.44	Horizontal	Pass
	1712.6	13.22	2.07	10.13	21.28	Vertical	Pass
	1740	11.72	2.08	10.13	19.77	Horizontal	Pass
	1740	13.51	2.08	10.13	**21.56**	Vertical	Pass
	1752.4	11.43	2.09	10.13	19.47	Horizontal	Pass
	1752.4	13.36	2.09	10.13	21.4	Vertical	Pass
Limit	E.I.R.P＜1W=30dBm						

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

Radiated Power (ERP) for CDMA BC0							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
CDMA	824.7	14.85	0.44	6.5	20.91	Horizontal	Pass
	824.7	16.65	0.44	6.5	22.71	Vertical	Pass
	836.52	14.97	0.45	6.5	21.02	Horizontal	Pass
	836.52	16.76	0.45	6.5	**22.81**	Vertical	Pass
	848.31	14.82	0.46	6.5	20.86	Horizontal	Pass
	848.31	16.66	0.46	6.5	22.70	Vertical	Pass
Limit	E.R.P＜7W=38.45dBm						

Radiated Power (EIRP) for CDMA BC1							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. ERP	
CDMA	1851.25	10.02	2.41	10.35	17.96	Horizontal	Pass
	1851.25	11.77	2.41	10.35	19.71	Vertical	Pass
	1880	9.9	2.42	10.35	17.83	Horizontal	Pass
	1880	11.83	2.42	10.35	**19.76**	Vertical	Pass
	1908.75	9.39	2.43	10.35	17.31	Horizontal	Pass
	1908.75	11.19	2.43	10.35	19.11	Vertical	Pass
Limit	E.I.R.P＜2W=33dBm						

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

Occupied Bandwidth for GSM 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	245.09	320.5
Middle Channel	836.6	247.70	318.2
High Channel	848.8	245.97	321.3
Occupied Bandwidth for GPRS 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	243.56	311.6
Middle Channel	836.6	244.76	314.6
High Channel	848.8	245.00	311.9
Occupied Bandwidth for EGPRS 850 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	824.2	248.95	323.0
Middle Channel	836.6	248.48	319.1
High Channel	848.8	234.01	303.2

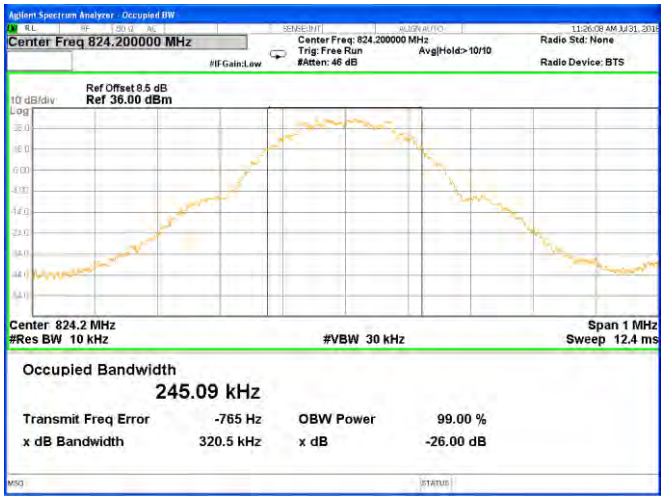
Occupied Bandwidth for GSM1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	247.36	316.8
Middle Channel	1880.0	243.87	320.4
High Channel	1909.8	244.25	318.4
Occupied Bandwidth for GPRS 1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	244.35	313.7
Middle Channel	1880.0	247.49	323.5
High Channel	1909.8	242.52	311.6
Occupied Bandwidth for EDGE 1900 band			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)
Low Channel	1850.2	252.07	319.0
Middle Channel	1880.0	243.82	313.9
High Channel	1909.8	244.39	315.0

Occupied Bandwidth for UMTS band V			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	826.4	4.1660	4.668
Middle Channel	836.6	4.1512	4.668
High Channel	846.6	4.1446	4.659

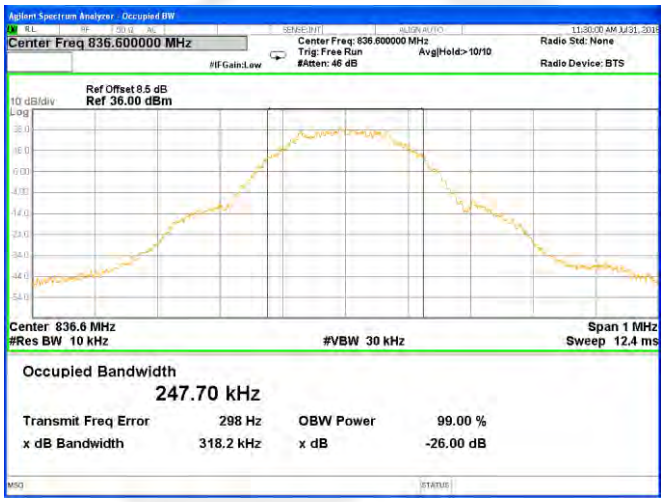
Occupied Bandwidth for UMTS band II			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1852.4	4.1630	4.665
Middle Channel	1880	4.1505	4.659
High Channel	1907.6	4.1674	4.667

Occupied Bandwidth for UMTS band IV			
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(MHz)	Emission Bandwidth (-26dBc)(MHz)
Low Channel	1712.6	4.1561	4.668
Middle Channel	1740	4.1548	4.681
High Channel	1752.4	4.1580	4.665

GSM 850 CH 128



GSM 850 CH 190



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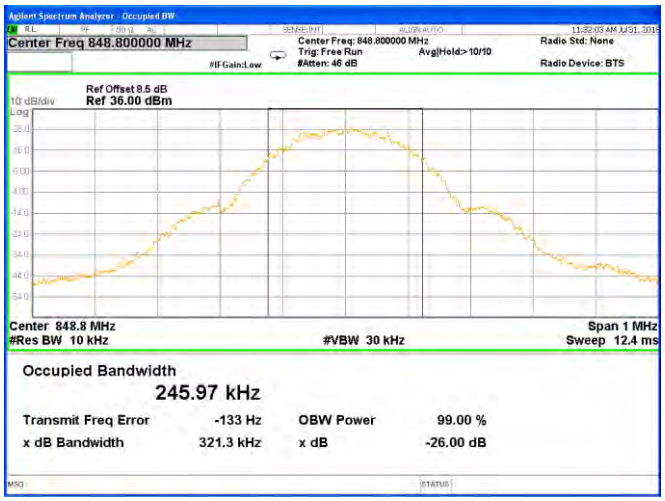

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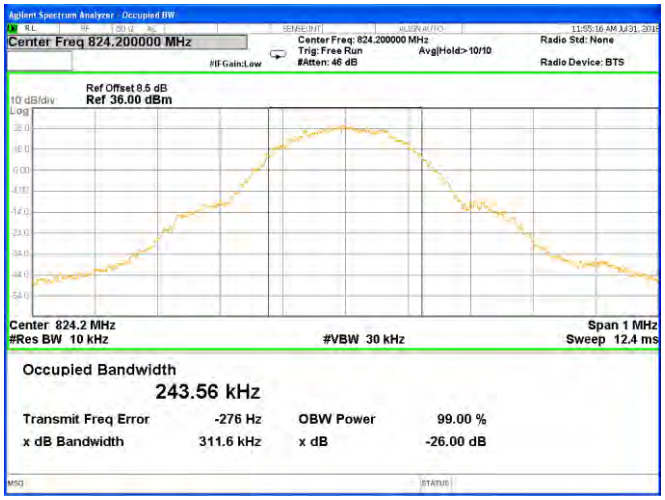

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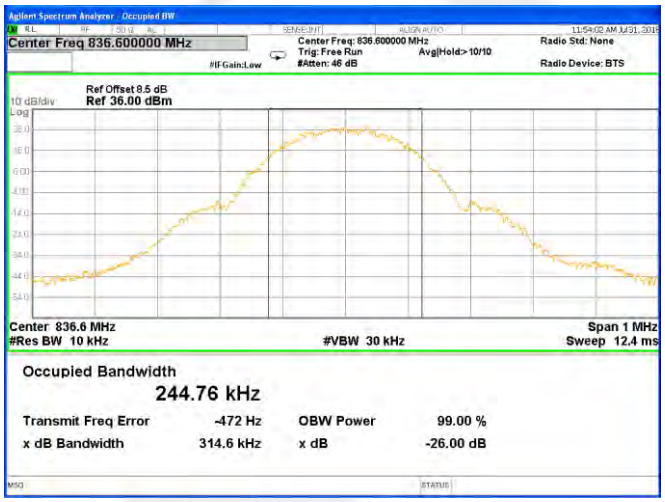

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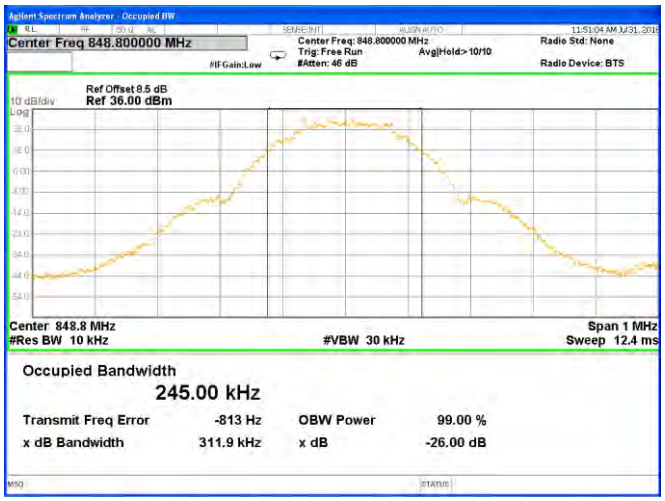
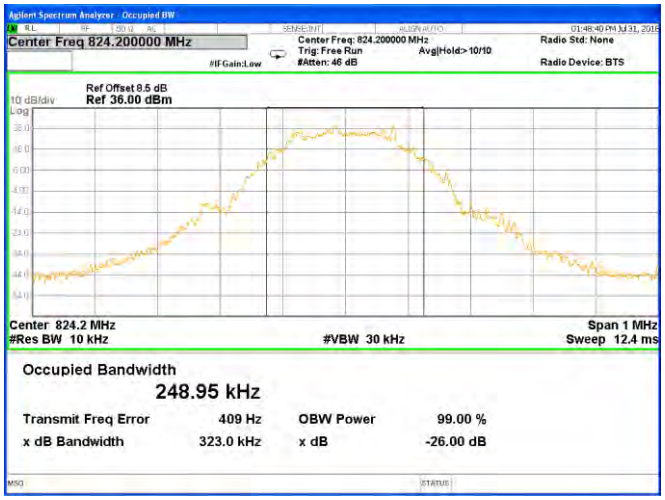


EDGE 850 CH 128



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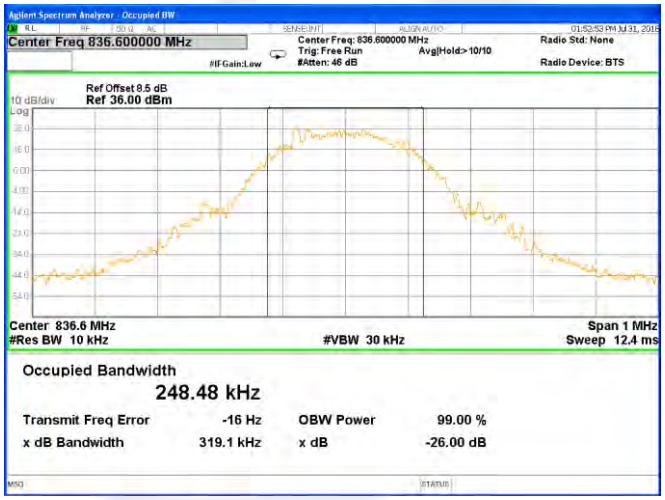

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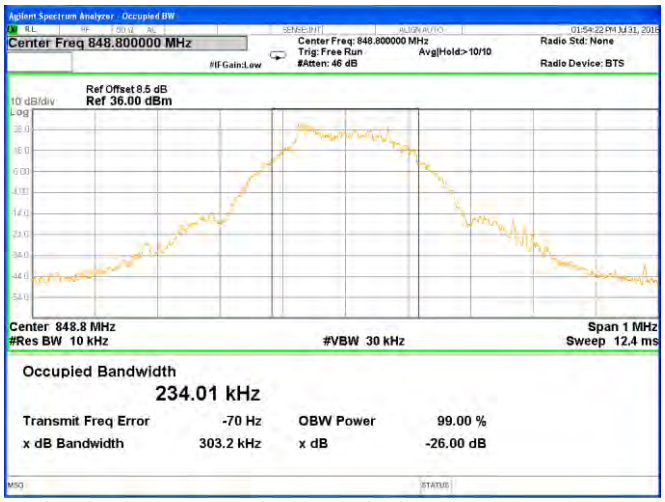
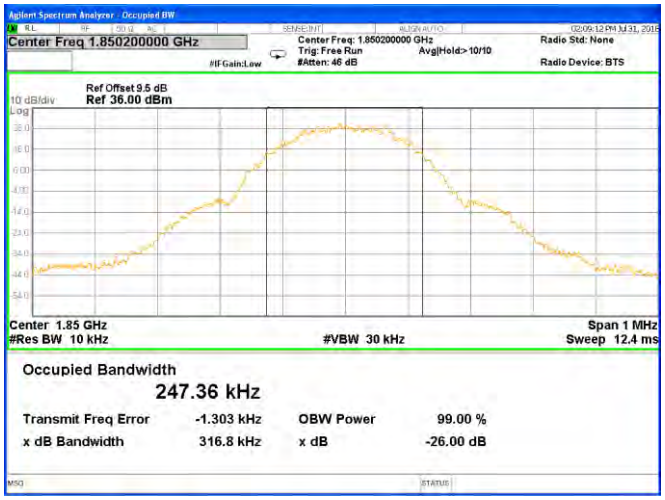


PCS 1900 CH 512



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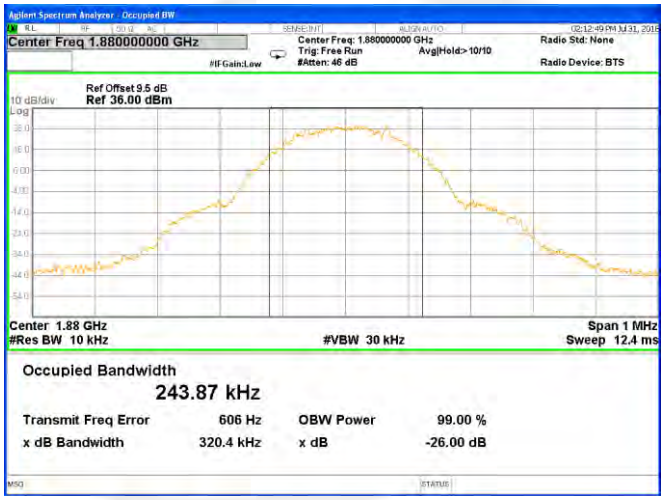

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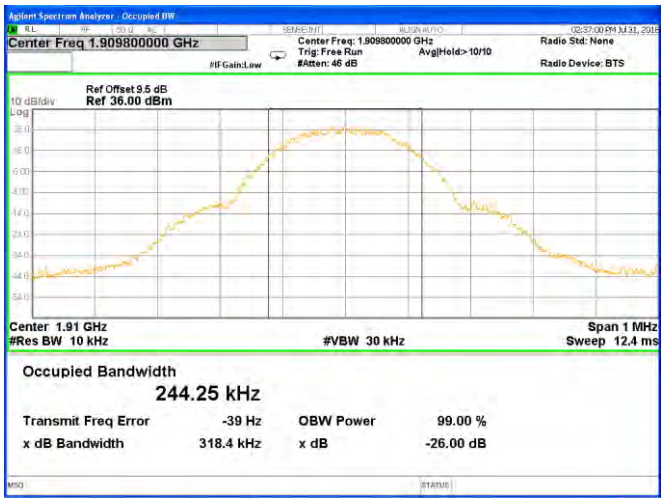
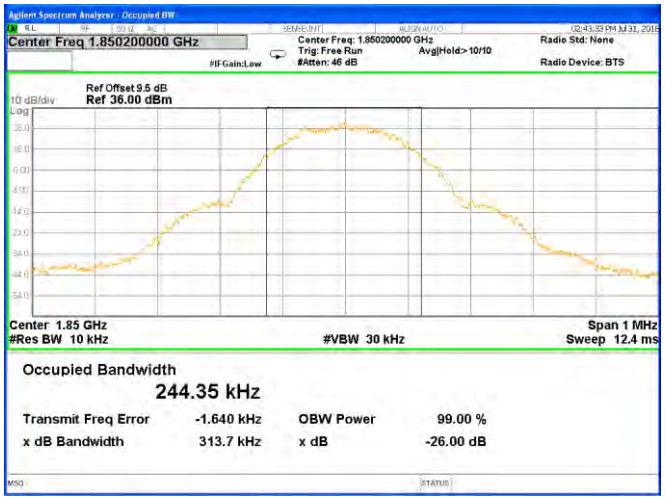
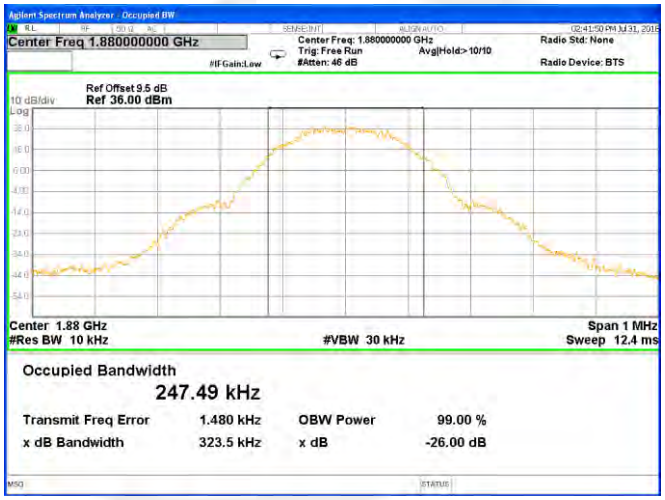


GPRS 1900 CH 512



GPRS 1900 CH 661



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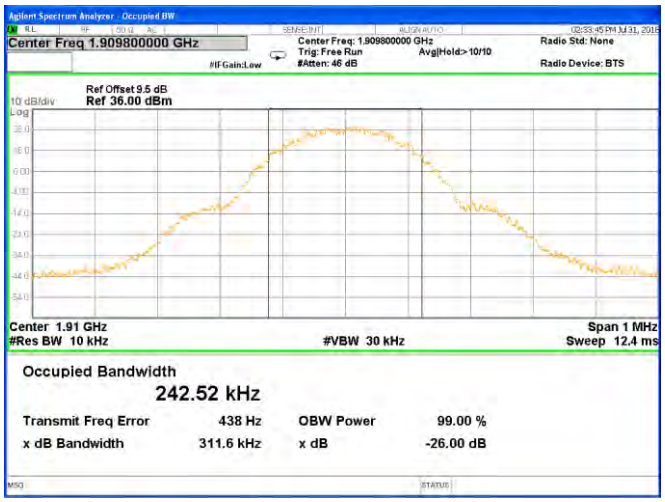
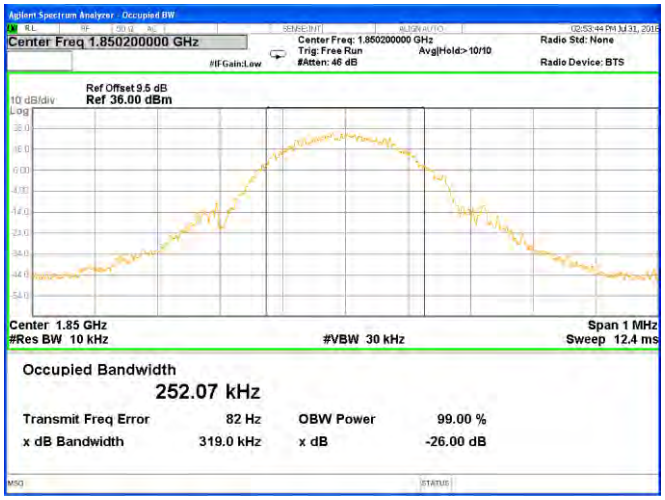
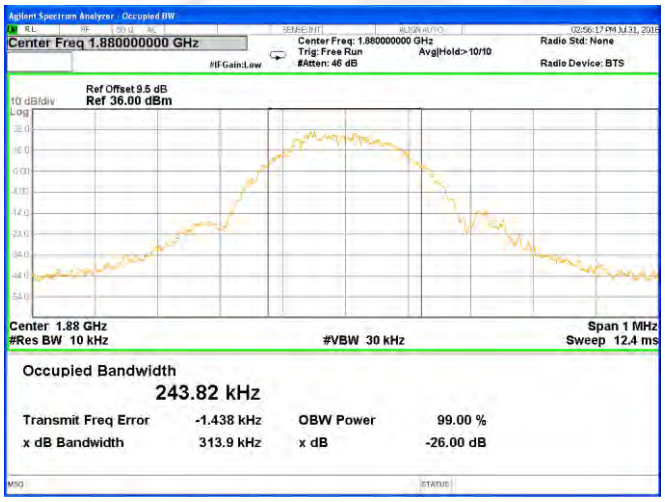


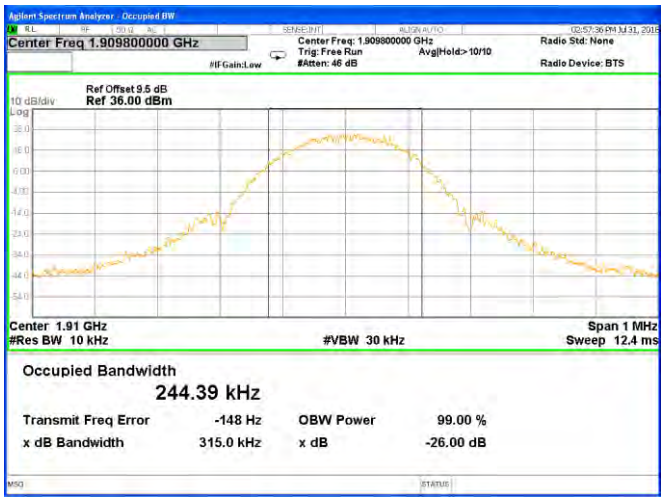
EDGE 1900 CH 512



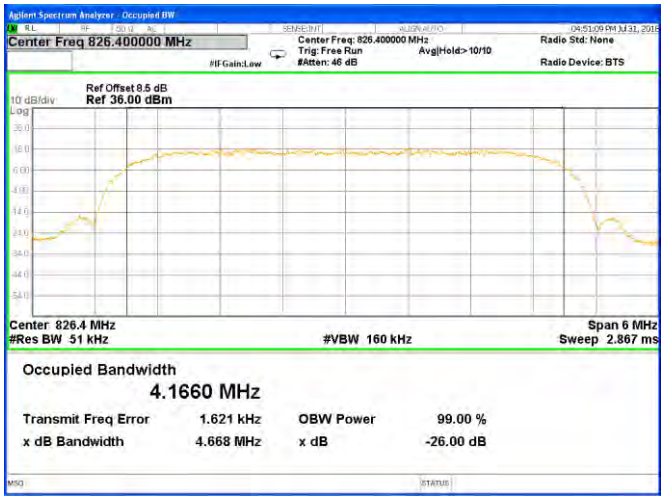
EDGE 1900 CH 661



EDGE 1900 CH 810



UMTS BAND V CH 4132



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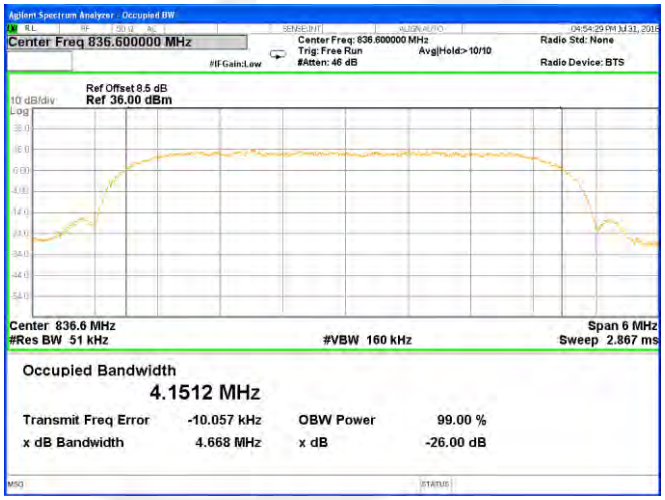

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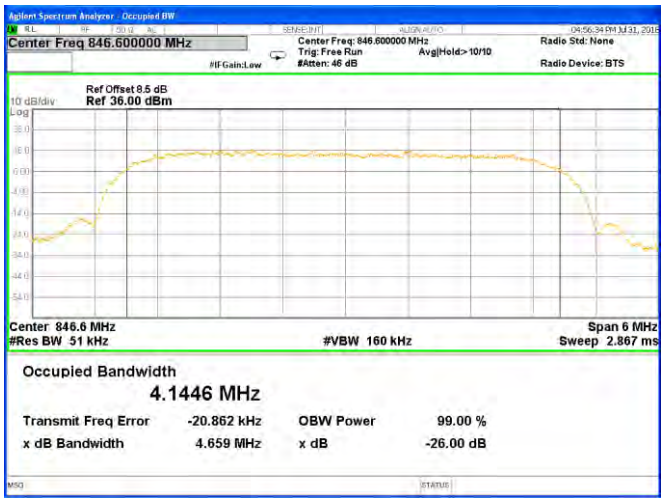
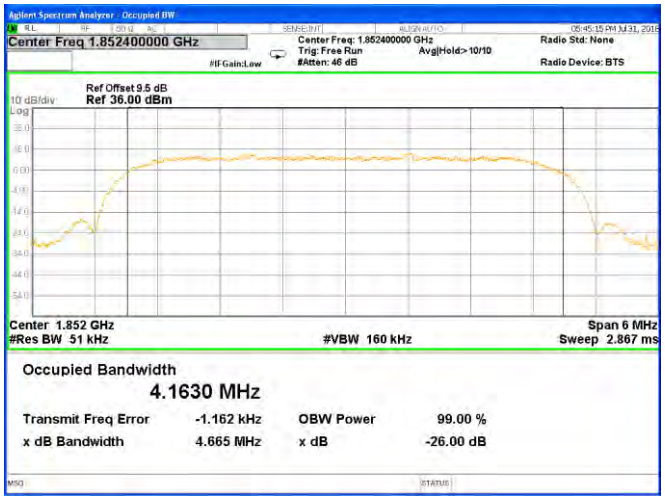


UMTS BAND II CH 9262



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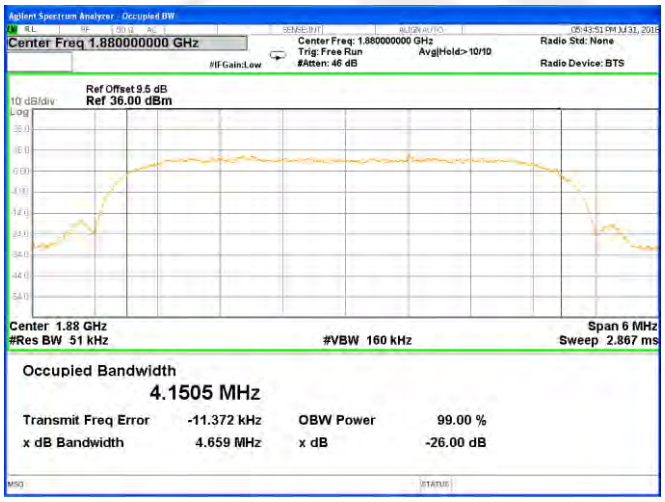
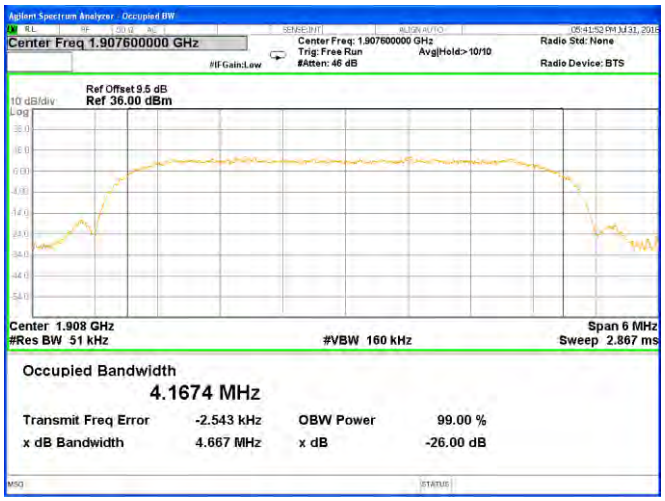
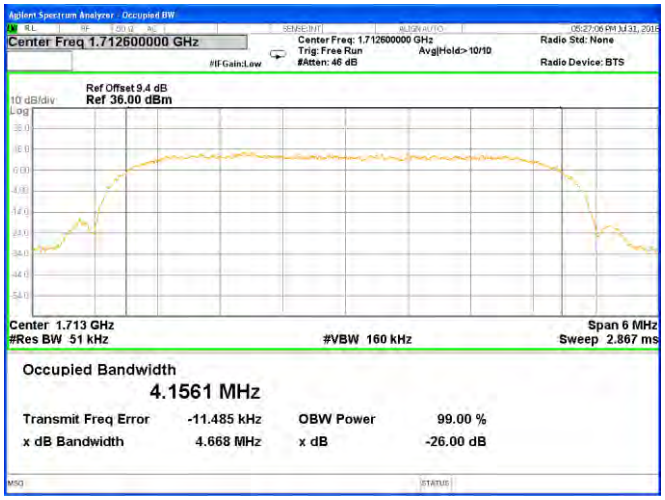


UMTS BAND II CH 9538



UMTS BAND IV CH 9262



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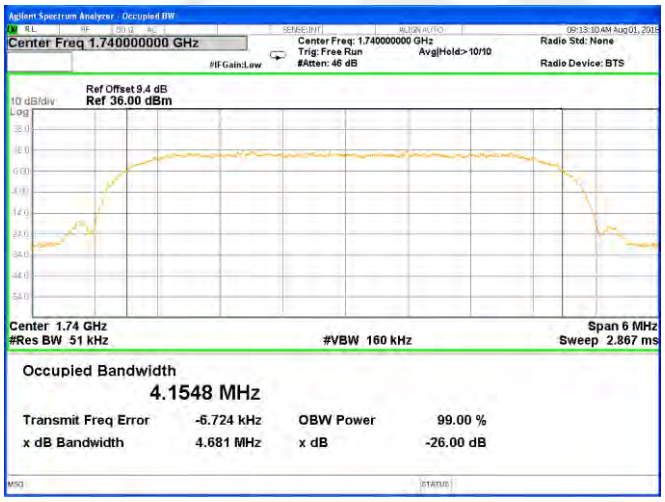

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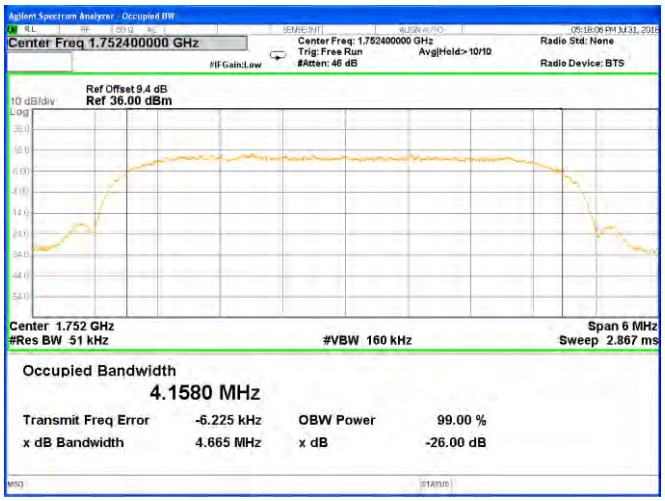
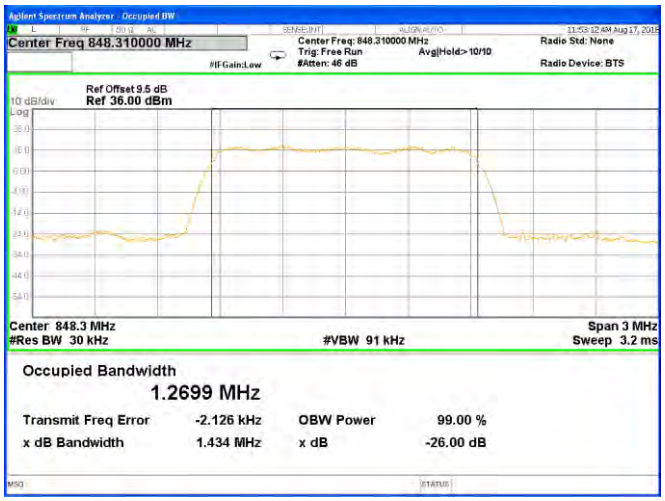


CDMA BC0 Low

CDMA BC0 Mid

CDMA BC0 High



CDMA BC1 Low

CDMA BC1 Mid

CDMA BC1 High

A5.FREQUENCY STABILITY

Normal Voltage = 3.85V. ； Battery End Point (BEP) = 3.5 V.； Maximum Voltage =4.4 V

GSM 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	29.90	0.036	2.5ppm	PASS
40		24.10	0.029		
30		21.37	0.026		
20		27.03	0.032		
10		27.78	0.033		
0		18.40	0.022		
-10		36.17	0.043		
-20		30.90	0.037		
-30		24.33	0.029		
25	Maximum Voltage	30.98	0.037		
25	BEP	30.75	0.037		

GPRS 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	31.22	0.037	2.5ppm	PASS
40		22.12	0.026		
30		20.51	0.025		
20		17.00	0.020		
10		33.25	0.040		
0		32.96	0.039		
-10		34.98	0.042		
-20		35.94	0.043		
-30		16.00	0.019		
25	Maximum Voltage	15.63	0.019		
25	BEP	27.27	0.033		

EDGE 850 Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	18.88	0.023	2.5ppm	PASS
40		20.35	0.024		
30		22.52	0.027		
20		25.24	0.030		
10		24.43	0.029		
0		30.38	0.036		
-10		30.49	0.036		
-20		26.06	0.031		
-30		13.29	0.016		
25	Maximum Voltage	22.01	0.026		
25	BEP	33.63	0.040		

GSM 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	30.33	0.016	2.5ppm	PASS
40		29.54	0.016		
30		24.08	0.013		
20		16.63	0.009		
10		21.32	0.011		
0		17.41	0.009		
-10		19.34	0.010		
-20		19.95	0.011		
-30		19.05	0.010		
25	Maximum Voltage	13.54	0.007		
25	BEP	12.17	0.006		

GPRS 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	29.52	0.016	2.5ppm	PASS
40		18.49	0.010		
30		36.11	0.019		
20		18.04	0.010		
10		26.99	0.014		
0		22.58	0.012		
-10		34.90	0.019		
-20		33.07	0.018		
-30		29.55	0.016		
25	Maximum Voltage	31.14	0.017		
25	BEP	30.33	0.016		

EDGE 1900 Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	17.25	0.009	2.5ppm	PASS
40		15.27	0.008		
30		23.75	0.013		
20		31.91	0.017		
10		20.68	0.011		
0		33.84	0.018		
-10		18.11	0.010		
-20		25.74	0.014		
-30		20.89	0.011		
25	Maximum Voltage	33.62	0.018		
25	BEP	29.79	0.016		

WCDMA V Middle Channel/836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	36.31	0.043	2.5ppm	PASS
40		25.24	0.030		
30		24.45	0.029		
20		31.96	0.038		
10		26.67	0.032		
0		28.68	0.034		
-10		25.04	0.030		
-20		36.28	0.043		
-30		13.66	0.016		
25	Maximum Voltage	12.09	0.014		
25	BEP	13.76	0.016		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

WCDMA II Middle Channel/1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	24.90	0.013	2.5ppm	PASS
40		12.54	0.007		
30		31.92	0.017		
20		21.07	0.011		
10		17.41	0.009		
0		14.60	0.008		
-10		31.86	0.017		
-20		30.65	0.016		
-30		14.50	0.008		
25	Maximum Voltage	15.04	0.008		
25	BEP	25.48	0.014		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

WCDMA IV Middle Channel/1740MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	20.77	0.011	2.5ppm	PASS
40		22.03	0.012		
30		28.62	0.015		
20		31.74	0.017		
10		26.31	0.014		
0		27.77	0.015		
-10		31.25	0.017		
-20		35.70	0.019		
-30		11.68	0.006		
25	Maximum Voltage	35.66	0.019		
25	BEP	35.93	0.019		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

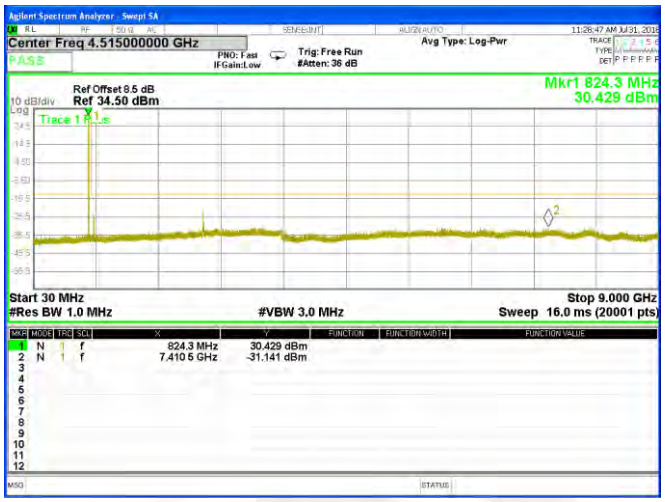
CDMA BC0					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	13.89	0.017	2.5ppm	PASS
40		25.02	0.030		
30		34.88	0.042		
20		24.13	0.029		
10		29.27	0.035		
0		12.35	0.015		
-10		20.22	0.024		
-20		18.44	0.022		
-30		29.34	0.035		
25	Maximum Voltage	22.21	0.027		
25	BEP	12.14	0.015		

CDMA BC1					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	27.71	0.015	2.5ppm	PASS
40		33.22	0.018		
30		12.20	0.006		
20		22.99	0.012		
10		21.23	0.011		
0		27.40	0.015		
-10		17.45	0.009		
-20		27.82	0.015		
-30		23.25	0.012		
25	Maximum Voltage	31.09	0.017		
25	BEP	16.21	0.009		

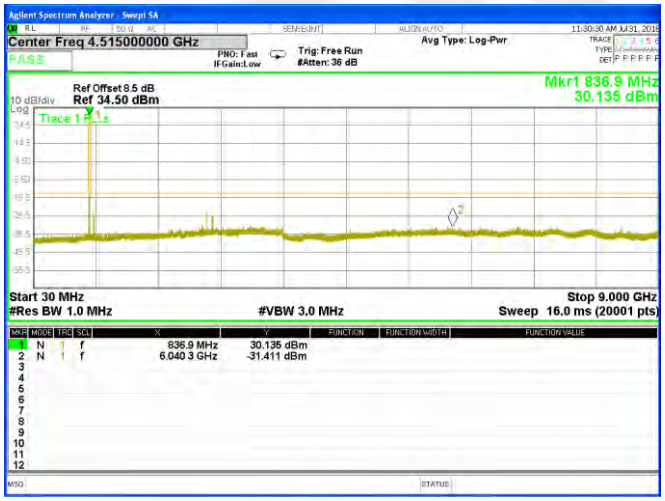
A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

GSM 850 BAND

Lowest Channel



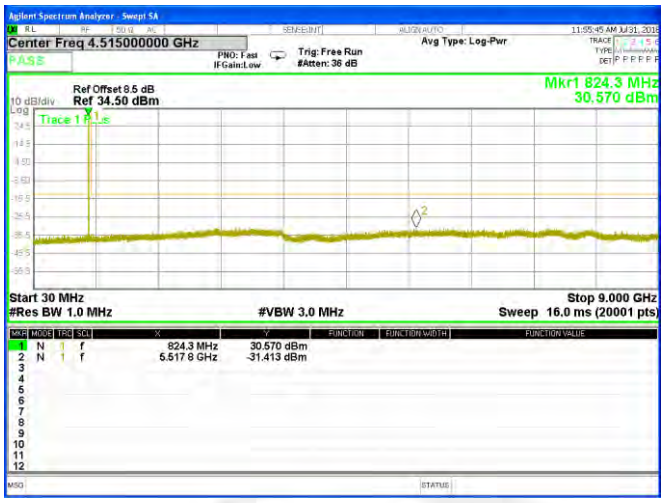
Middle Channel



Highest Channel

GPRS 850 BAND

Lowest Channel

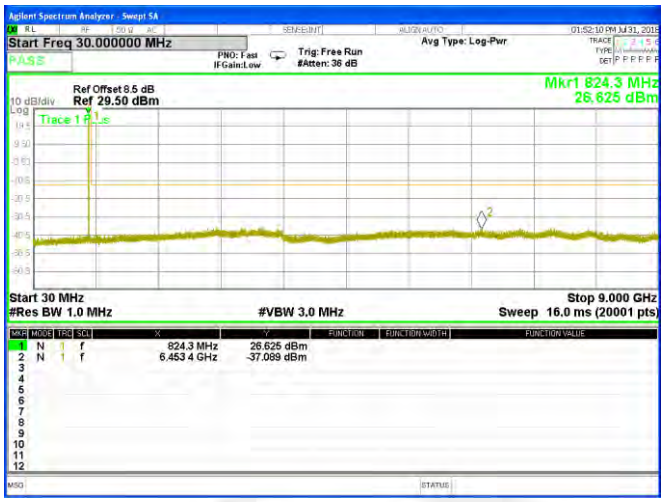


Middle Channel

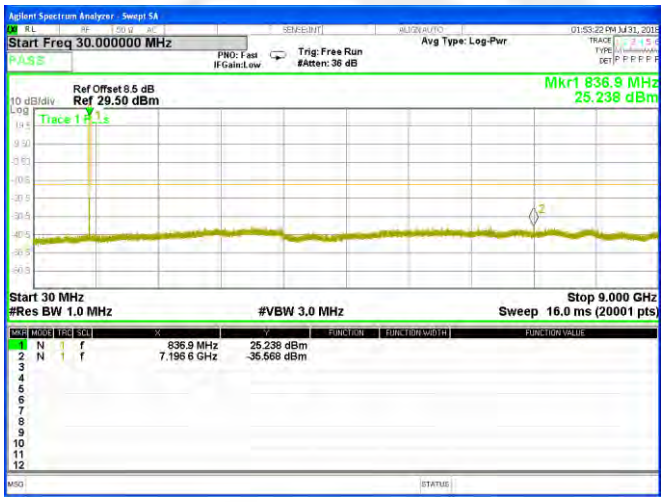
Highest Channel

EDGE 850 BAND

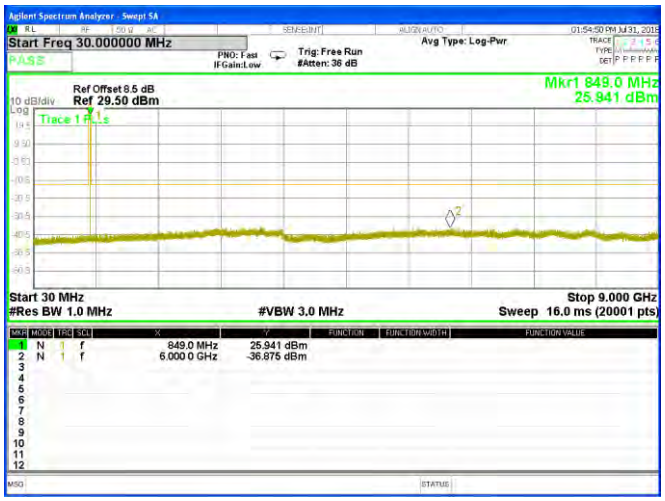
Lowest Channel



Middle Channel

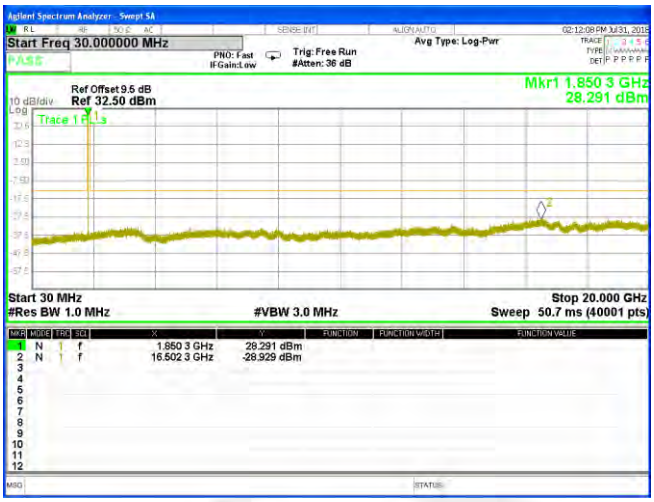


Highest Channel

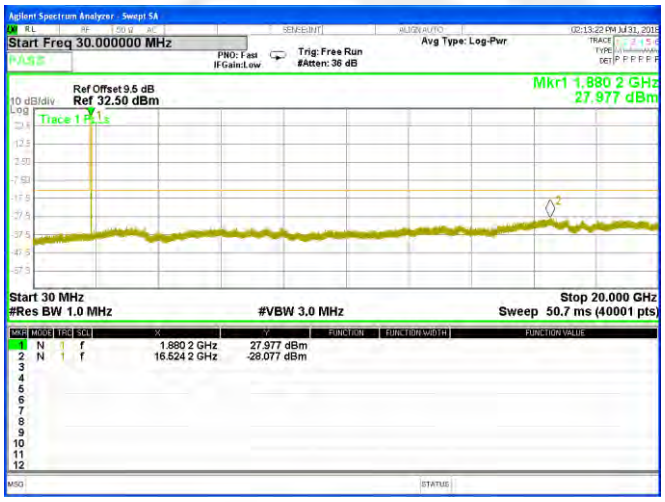


GSM1900 BAND(30M-20G)

Lowest Channel



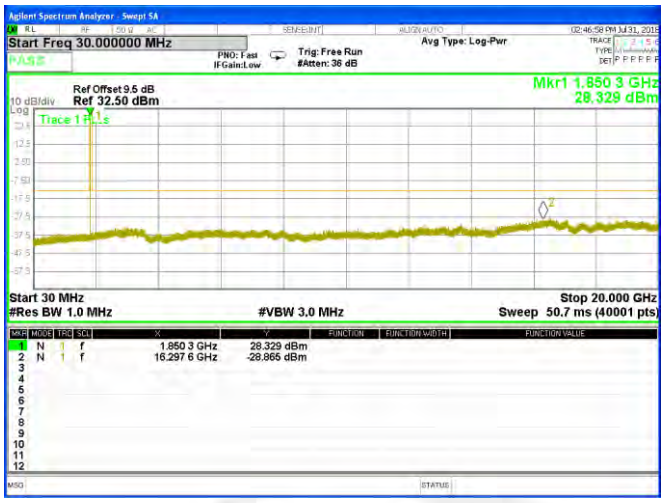
Middle Channel



Highest Channel

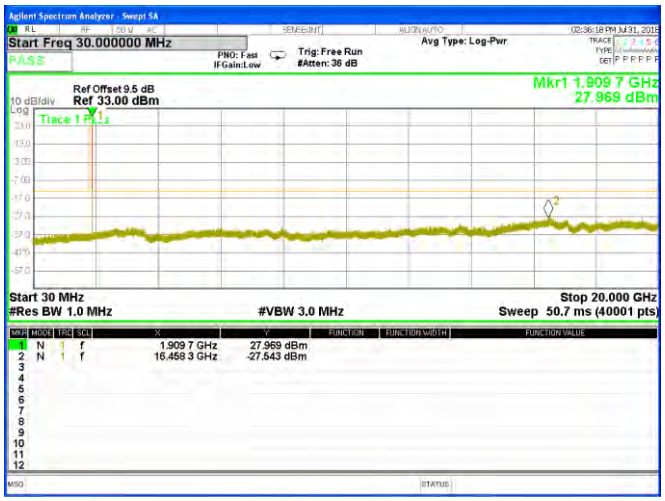
GPRS1900 BAND(30M-20G)

Lowest Channel



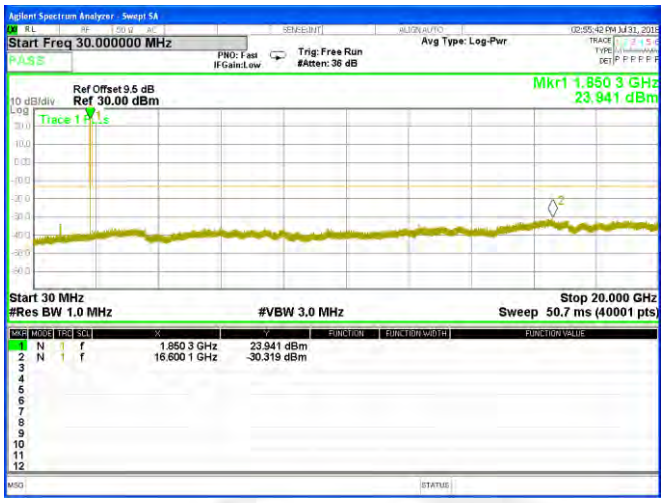
Middle Channel

Highest Channel

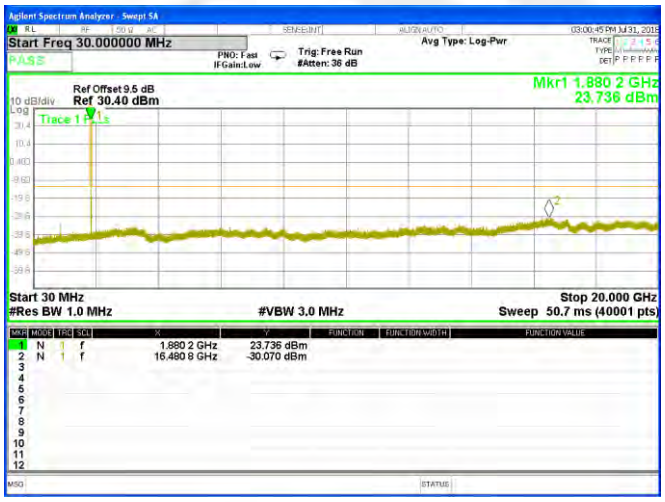


EDGE 1900 BAND(30M-20G)

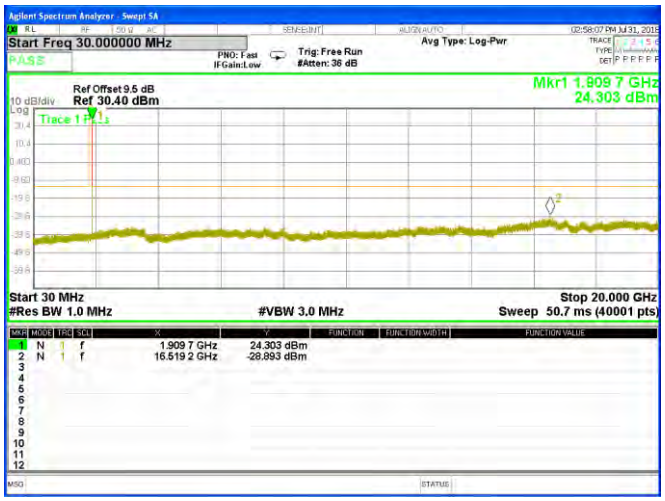
Lowest Channel



Middle Channel

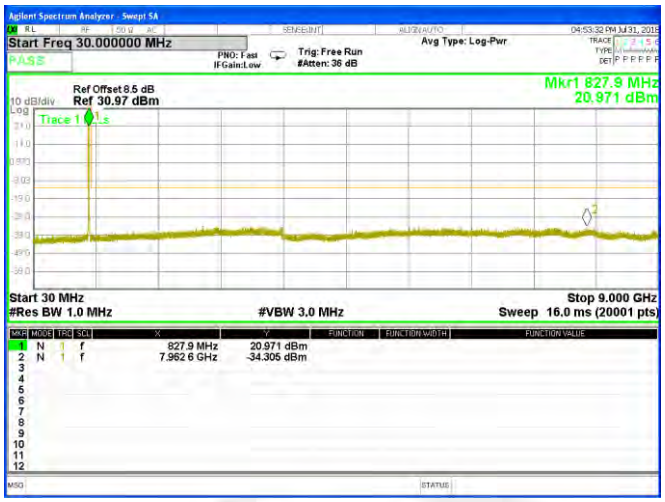


Highest Channel



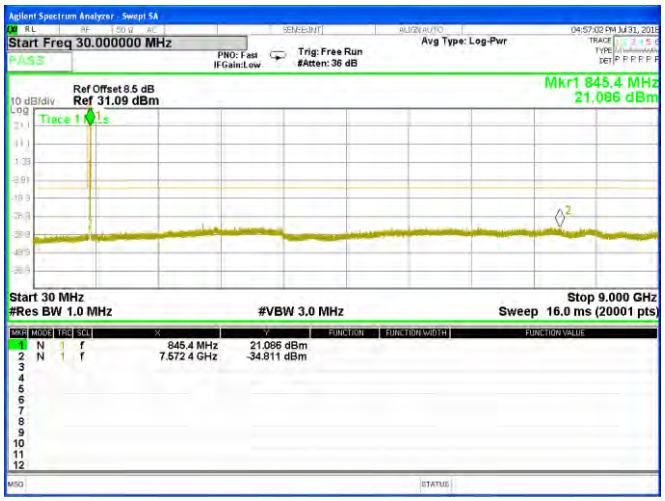
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



Middle Channel

Highest Channel



WCDMA Band II (RMC 12.2Kbps)

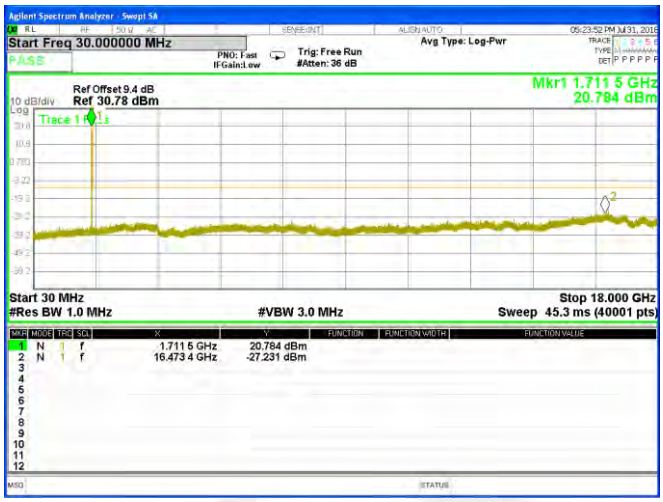
Lowest Channel

Middle Channel

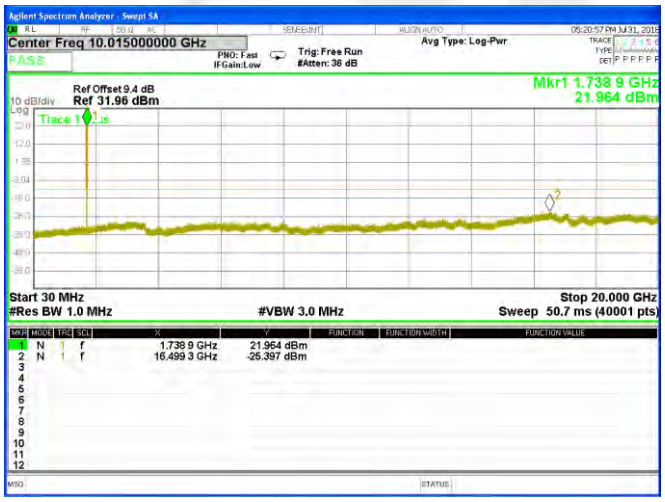
Highest Channel

WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



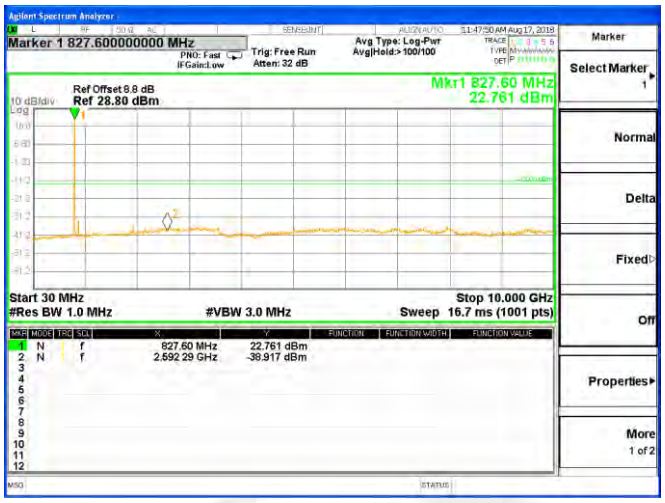
Middle Channel



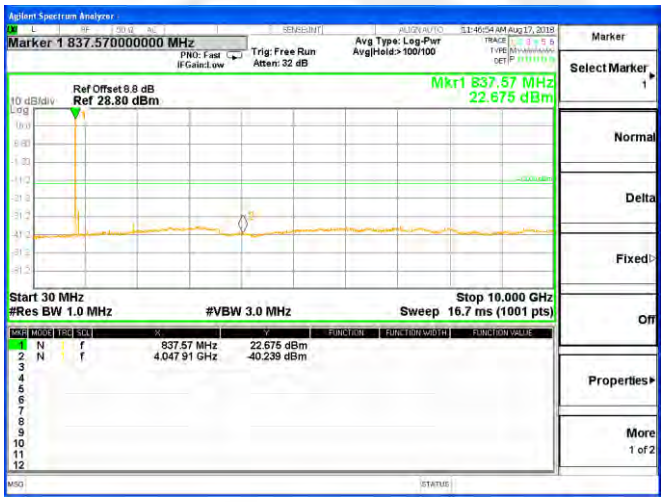
Highest Channel

CDMA BC0

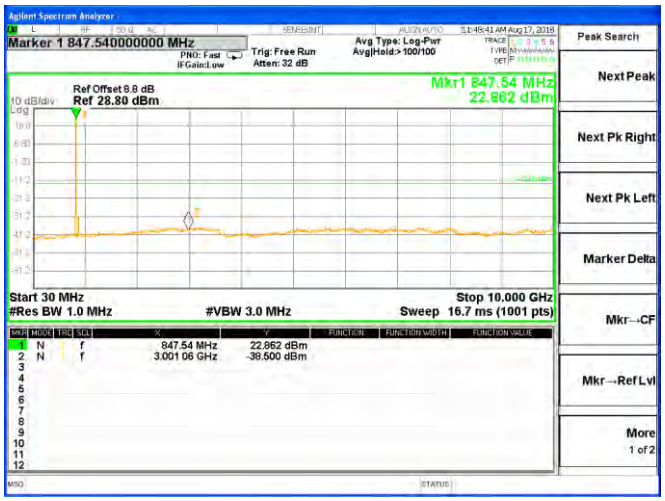
Lowest Channel



Middle Channel

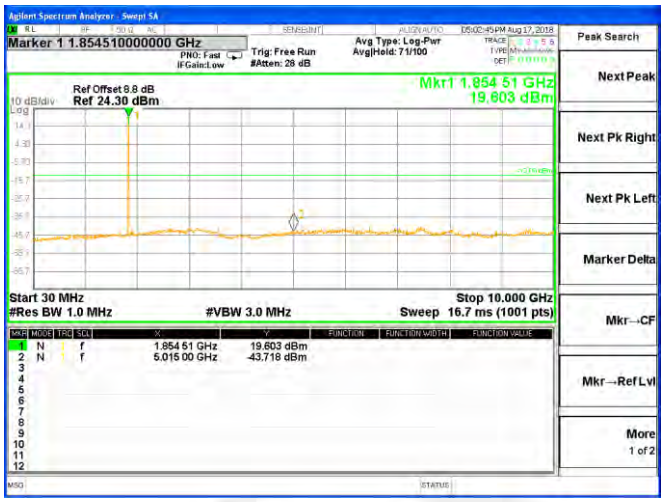


Highest Channel

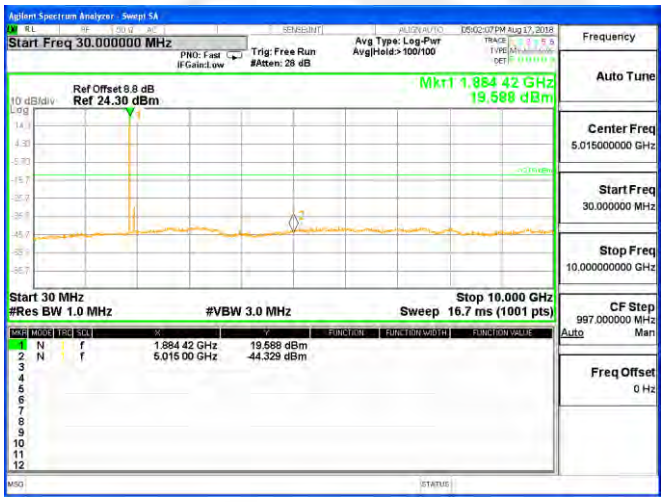


CDMA BC1

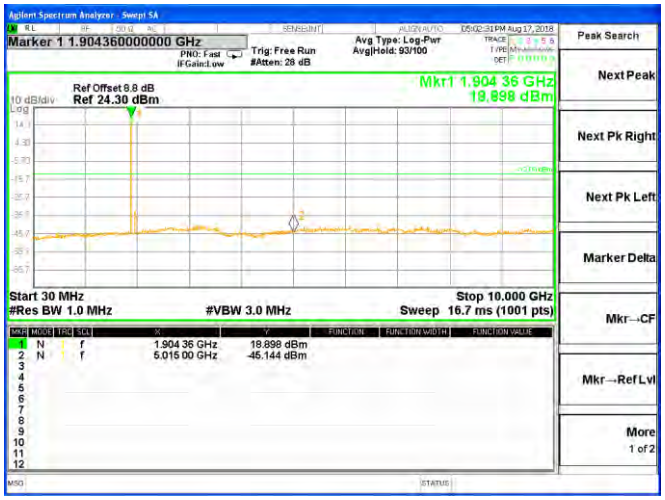
Lowest Channel



Middle Channel



Highest Channel



A7. BAND EDGE

GSM 850

Lowest Band Edge

Highest Band Edge

GPRS 850

Lowest Band Edge

Highest Band Edge

EDGE 850

Lowest Band Edge

Highest Band Edge

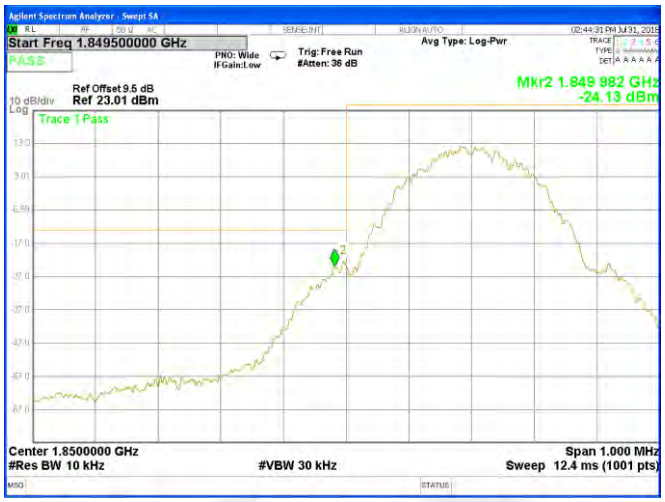
GSM 1900

Lowest Band Edge

Highest Band Edge

GPRS 1900

Lowest Band Edge



Highest Band Edge

EDGE 1900

Lowest Band Edge

Highest Band Edge

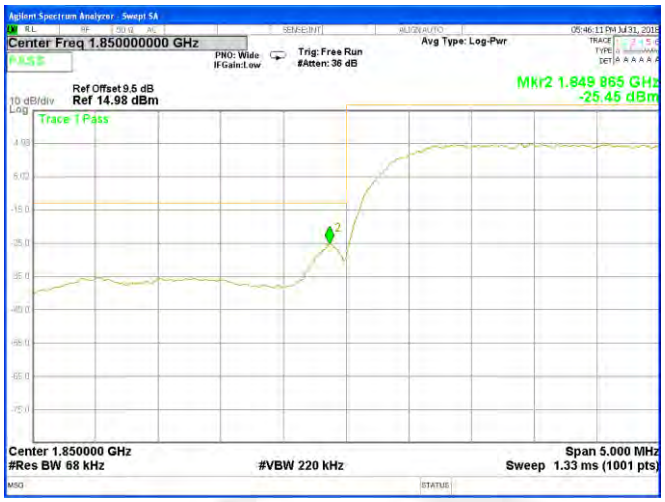
WCDMA Band VRMC 12.2Kbps

Lowest Band Edge

Highest Band Edge

WCDMA Band IIRMC 12.2Kbps

Lowest Band Edge



Highest Band Edge

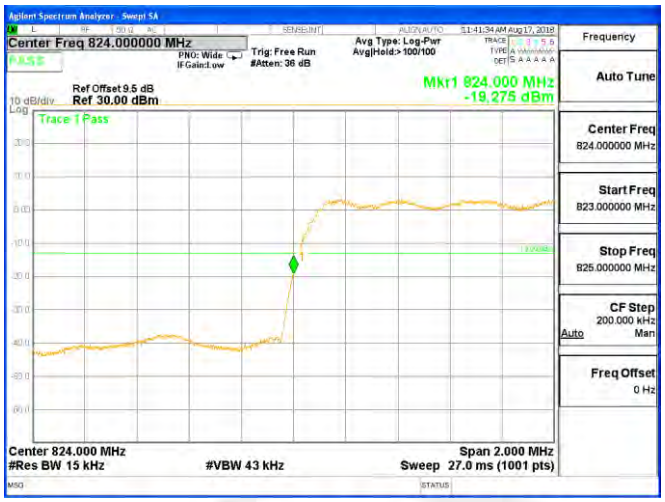
WCDMA Band IVRMC 12.2Kbps

Lowest Band Edge

Highest Band Edge

CDMA BC0

Lowest Band Edge

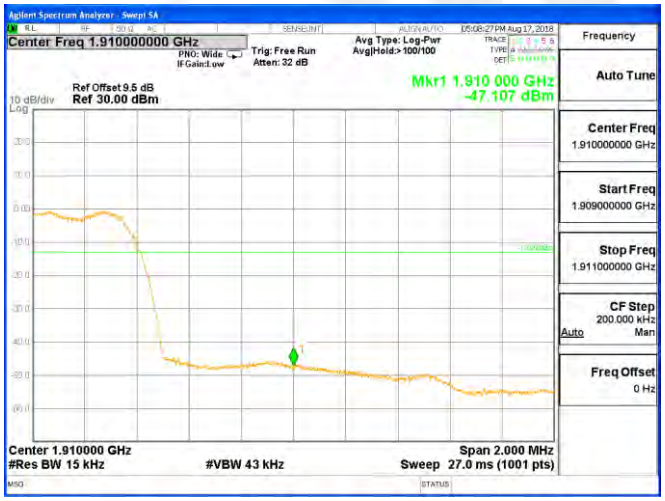


Highest Band Edge

WCDMA BC1

Lowest Band Edge

Highest Band Edge



A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

GSM 850: (30-9000)MHz

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1648.04	-41.35	9.40	4.75	-36.70	-13.00	-23.70	H
2472.31	-39.74	10.60	8.39	-37.53	-13.00	-24.53	H
3296.55	-31.31	12.00	11.79	**-31.10**	-13.00	-18.10	H
1648.16	-43.67	9.40	4.75	-39.02	-13.00	-26.02	V
2472.56	-44.49	10.60	8.39	-42.28	-13.00	-29.28	V
3296.43	-42.49	12.00	11.79	-42.28	-13.00	-29.28	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1672.92	-40.46	9.50	4.76	-35.72	-13.00	-22.72	H
2509.52	-39.72	10.70	8.40	-37.42	-13.00	-24.42	H
3346.01	-31.49	12.20	11.80	**-31.09**	-13.00	-18.09	H
1672.89	-43.65	9.40	4.75	-39.00	-13.00	-26.00	V
2509.87	-44.28	10.60	8.39	-42.07	-13.00	-29.07	V
3346.02	-43.96	12.20	11.82	-43.58	-13.00	-30.58	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1697.29	-40.78	9.60	4.77	-35.95	-13.00	-22.95	H
2546.22	-39.87	10.80	8.50	-37.57	-13.00	-24.57	H
3395.34	-31.83	12.50	11.90	**-31.23**	-13.00	-18.23	H
1697.19	-44.17	9.60	4.77	-39.34	-13.00	-26.34	V
2546.26	-45.31	10.80	8.50	-43.01	-13.00	-30.01	V
3395.20	-42.90	12.50	11.90	-42.30	-13.00	-29.30	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GPRS 850: (30-9000)MHz

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1648.45	-40.49	9.40	4.75	-35.84	-13.00	-22.84	H
2472.59	-40.45	10.60	8.39	-38.24	-13.00	-25.24	H
3296.78	-31.06	12.00	11.79	**-30.85**	-13.00	-17.85	H
1648.43	-43.89	9.40	4.75	-39.24	-13.00	-26.24	V
2472.57	-44.47	10.60	8.39	-42.26	-13.00	-29.26	V
3296.77	-43.10	12.00	11.79	-42.89	-13.00	-29.89	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1673.11	-40.21	9.50	4.76	-35.47	-13.00	-22.47	H
2509.89	-39.29	10.70	8.40	-36.99	-13.00	-23.99	H
3346.08	-32.27	12.20	11.80	**-31.87**	-13.00	-18.87	H
1673.00	-43.36	9.40	4.75	-38.71	-13.00	-25.71	V
2509.43	-45.16	10.60	8.39	-42.95	-13.00	-29.95	V
3346.31	-43.82	12.20	11.82	-43.44	-13.00	-30.44	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1697.57	-41.12	9.60	4.77	-36.29	-13.00	-23.29	H
2546.31	-39.47	10.80	8.50	-37.17	-13.00	-24.17	H
3395.00	-32.28	12.50	11.90	**-31.68**	-13.00	-18.68	H
1697.32	-44.15	9.60	4.77	-39.32	-13.00	-26.32	V
2546.20	-45.05	10.80	8.50	-42.75	-13.00	-29.75	V
3395.22	-43.42	12.50	11.90	-42.82	-13.00	-29.82	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

EDGE 850: (30-9000)MHz

EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dB)	Polarity
1648.31	-41.55	9.40	4.75	-36.90	-13.00	-23.90	H
2472.35	-39.23	10.60	8.39	-37.02	-13.00	-24.02	H
3296.90	-32.00	12.00	11.79	**-31.79**	-13.00	-18.79	H
1648.39	-43.58	9.40	4.75	-38.93	-13.00	-25.93	V
2472.26	-44.66	10.60	8.39	-42.45	-13.00	-29.45	V
3296.46	-42.97	12.00	11.79	-42.76	-13.00	-29.76	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dB)	Polarity
1672.80	-40.21	9.50	4.76	-35.47	-13.00	-22.47	H
2509.68	-39.42	10.70	8.40	-37.12	-13.00	-24.12	H
3346.04	-31.74	12.20	11.80	**-31.34**	-13.00	-18.34	H
1672.81	-43.43	9.40	4.75	-38.78	-13.00	-25.78	V
2509.69	-44.22	10.60	8.39	-42.01	-13.00	-29.01	V
3345.96	-42.96	12.20	11.82	-42.58	-13.00	-29.58	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dB)	Polarity
1697.44	-40.92	9.60	4.77	-36.09	-13.00	-23.09	H
2546.47	-40.06	10.80	8.50	-37.76	-13.00	-24.76	H
3395.25	-31.33	12.50	11.90	**-30.73**	-13.00	-17.73	H
1697.47	-43.42	9.60	4.77	-38.59	-13.00	-25.59	V
2546.21	-44.51	10.80	8.50	-42.21	-13.00	-29.21	V
3394.93	-43.98	12.50	11.90	-43.38	-13.00	-30.38	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

PCS 1900: (30-20000)MHz

DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3700.19	-34.16	12.60	12.93	**-34.49**	-13.00	-21.49	H
5550.62	-34.81	13.10	17.11	-38.82	-13.00	-25.82	H
7400.62	-33.37	11.50	22.20	-44.07	-13.00	-31.07	H
3700.51	-34.88	12.60	12.93	-35.21	-13.00	-22.21	V
5550.67	-33.83	13.10	17.11	-37.84	-13.00	-24.84	V
7400.74	-33.11	11.50	22.20	-43.81	-13.00	-30.81	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3759.82	-34.55	12.60	12.93	**-34.88**	-13.00	-21.88	H
5640.24	-35.03	13.10	17.11	-39.04	-13.00	-26.04	H
7519.96	-32.92	11.50	22.20	-43.62	-13.00	-30.62	H
3760.31	-35.55	12.60	12.93	-35.88	-13.00	-22.88	V
5640.28	-34.22	13.10	17.11	-38.23	-13.00	-25.23	V
7520.30	-32.78	11.50	22.20	-43.48	-13.00	-30.48	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3819.49	-34.24	12.60	12.93	**-34.57**	-13.00	-21.57	H
5729.39	-34.34	13.10	17.11	-38.35	-13.00	-25.35	H
7639.01	-33.20	11.50	22.20	-43.90	-13.00	-30.90	H
3819.69	-35.94	12.60	12.93	-36.27	-13.00	-23.27	V
5729.12	-34.86	13.10	17.11	-38.87	-13.00	-25.87	V
7639.29	-31.87	11.50	22.20	-42.57	-13.00	-29.57	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GPRS 1900: (30-20000)MHz

GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3700.09	-34.87	12.60	12.93	-35.20	-13.00	-22.20	H
5550.63	-34.32	13.10	17.11	-38.33	-13.00	-25.33	H
7400.54	-32.45	11.50	22.20	-43.15	-13.00	-30.15	H
3700.51	-34.69	12.60	12.93	**-35.02**	-13.00	-22.02	V
5550.30	-34.80	13.10	17.11	-38.81	-13.00	-25.81	V
7400.51	-32.36	11.50	22.20	-43.06	-13.00	-30.06	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3760.17	-34.81	12.60	12.93	**-35.14**	-13.00	-22.14	H
5640.22	-34.35	13.10	17.11	-38.36	-13.00	-25.36	H
7520.26	-32.63	11.50	22.20	-43.33	-13.00	-30.33	H
3759.93	-35.77	12.60	12.93	-36.10	-13.00	-23.10	V
5640.09	-35.15	13.10	17.11	-39.16	-13.00	-26.16	V
7519.97	-31.86	11.50	22.20	-42.56	-13.00	-29.56	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3819.26	-33.99	12.60	12.93	**-34.32**	-13.00	-21.32	H
5729.04	-34.84	13.10	17.11	-38.85	-13.00	-25.85	H
7639.31	-32.38	11.50	22.20	-43.08	-13.00	-30.08	H
3819.44	-35.40	12.60	12.93	-35.73	-13.00	-22.73	V
5729.41	-35.19	13.10	17.11	-39.20	-13.00	-26.20	V
7639.22	-33.15	11.50	22.20	-43.85	-13.00	-30.85	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

EDGE 1900: (30-20000)MHz

EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3700.36	-34.76	12.60	12.93	**-35.09**	-13.00	-22.09	H
5550.33	-35.26	13.10	17.11	-39.27	-13.00	-26.27	H
7400.67	-32.21	11.50	22.20	-42.91	-13.00	-29.91	H
3700.51	-35.57	12.60	12.93	-35.90	-13.00	-22.90	V
5550.48	-34.61	13.10	17.11	-38.62	-13.00	-25.62	V
7400.54	-33.01	11.50	22.20	-43.71	-13.00	-30.71	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3759.93	-34.19	12.60	12.93	**-34.52**	-13.00	-21.52	H
5640.24	-34.95	13.10	17.11	-38.96	-13.00	-25.96	H
7519.80	-33.38	11.50	22.20	-44.08	-13.00	-31.08	H
3760.00	-35.66	12.60	12.93	-35.99	-13.00	-22.99	V
5640.07	-34.51	13.10	17.11	-38.52	-13.00	-25.52	V
7520.10	-33.00	11.50	22.20	-43.70	-13.00	-30.70	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3819.33	-34.71	12.60	12.93	**-35.04**	-13.00	-22.04	H
5729.15	-35.28	13.10	17.11	-39.29	-13.00	-26.29	H
7639.17	-32.88	11.50	22.20	-43.58	-13.00	-30.58	H
3819.68	-35.39	12.60	12.93	-35.72	-13.00	-22.72	V
5729.22	-35.11	13.10	17.11	-39.12	-13.00	-26.12	V
7639.03	-31.98	11.50	22.20	-42.68	-13.00	-29.68	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

UMTS band V(30-9000)MHz

WCDMA Band V: (30-9000)MHz							
The wost testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1652.50	-40.31	9.40	4.75	**-35.66**	-13.00	-22.66	H
2479.68	-40.48	10.60	8.39	-38.27	-13.00	-25.27	H
3305.80	-31.07	12.00	11.79	-30.86	-13.00	-17.86	H
1652.15	-44.53	9.40	4.75	-39.88	-13.00	-26.88	V
2479.35	-44.07	10.60	8.39	-41.86	-13.00	-28.86	V
3305.79	-43.14	12.00	11.79	-42.93	-13.00	-29.93	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1673.11	-40.56	9.50	4.76	**-35.82**	-13.00	-22.82	H
2509.67	-39.31	10.70	8.40	-37.01	-13.00	-24.01	H
3346.04	-31.21	12.20	11.80	-30.81	-13.00	-17.81	H
1673.13	-43.20	9.40	4.75	-38.55	-13.00	-25.55	V
2509.87	-44.82	10.60	8.39	-42.61	-13.00	-29.61	V
3346.41	-43.74	12.20	11.82	-43.36	-13.00	-30.36	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
1693.65	-40.47	9.60	4.77	**-35.64**	-13.00	-22.64	H
2539.11	-40.18	10.80	8.50	-37.88	-13.00	-24.88	H
3386.29	-31.33	12.50	11.90	-30.73	-13.00	-17.73	H
1693.65	-43.33	9.60	4.77	-38.50	-13.00	-25.50	V
2539.12	-44.84	10.80	8.50	-42.54	-13.00	-29.54	V
3386.03	-43.13	12.50	11.90	-42.53	-13.00	-29.53	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3GHz amplitude of spurious emissions which are attenuated by more than 20Db below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

UMTS band II(30-20000)MHz

WCDMA Band II: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3704.20	-34.15	12.60	12.93	**-34.48**	-13.00	-21.48	H
5557.66	-34.05	13.10	17.11	-38.06	-13.00	-25.06	H
7409.71	-32.20	11.50	22.20	-42.90	-13.00	-29.90	H
3704.49	-35.98	12.60	12.93	-36.31	-13.00	-23.31	V
5557.39	-33.78	13.10	17.11	-37.79	-13.00	-24.79	V
7409.96	-32.60	11.50	22.20	-43.30	-13.00	-30.30	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3760.20	-33.58	12.60	12.93	**-33.91**	-13.00	-20.91	H
5640.13	-35.31	13.10	17.11	-39.32	-13.00	-26.32	H
7520.23	-33.42	11.50	22.20	-44.12	-13.00	-31.12	H
3759.86	-34.94	12.60	12.93	-35.27	-13.00	-22.27	V
5640.13	-34.81	13.10	17.11	-38.82	-13.00	-25.82	V
7519.97	-31.79	11.50	22.20	-42.49	-13.00	-29.49	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3815.47	-34.60	12.60	12.93	**-34.93**	-13.00	-21.93	H
5722.48	-35.02	13.10	17.11	-39.03	-13.00	-26.03	H
7629.86	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3815.61	-35.06	12.60	12.93	-35.39	-13.00	-22.39	V
5722.05	-34.87	13.10	17.11	-38.88	-13.00	-25.88	V
7630.08	-32.99	11.50	22.20	-43.69	-13.00	-30.69	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

UMTS band IV(30-20000)MHz

WCDMA Band IV: (30-20000)MHz							
The Worst Test Results for Channel 9262/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3425.07	-33.72	12.90	12.05	**-32.87**	-13.00	-19.87	H
5137.50	-35.43	12.80	16.27	-38.90	-13.00	-25.90	H
6849.98	-33.17	12.30	20.13	-41.00	-13.00	-28.00	H
3424.97	-35.87	12.90	12.05	-35.02	-13.00	-22.02	V
5137.50	-34.95	12.80	16.27	-38.42	-13.00	-25.42	V
6849.91	-32.56	12.30	20.13	-40.39	-13.00	-27.39	V
The Worst Test Results for Channel 9400/1740MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3479.78	-34.58	12.90	12.05	**-33.73**	-13.00	-20.73	H
5219.69	-35.05	12.80	16.27	-38.52	-13.00	-25.52	H
6959.67	-32.35	12.30	20.13	-40.18	-13.00	-27.18	H
3479.76	-34.85	12.90	12.05	-34.00	-13.00	-21.00	V
5219.56	-34.06	12.80	16.27	-37.53	-13.00	-24.53	V
6959.86	-32.86	12.30	20.13	-40.69	-13.00	-27.69	V
The Worst Test Results for Channel 9538/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dB)	Polarity
3504.50	-34.51	12.90	12.05	**-33.66**	-13.00	-20.66	H
5256.76	-34.32	12.80	16.27	-37.79	-13.00	-24.79	H
7009.49	-33.33	12.30	20.13	-41.16	-13.00	-28.16	H
3504.52	-35.69	12.90	12.05	-34.84	-13.00	-21.84	V
5256.86	-34.44	12.80	16.27	-37.91	-13.00	-24.91	V
7009.15	-33.14	12.30	20.13	-40.97	-13.00	-27.97	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

CDMA BC0(30-20000)MHz

CDMA BC0: (30-20000)MHz							
The Worst Test Results for Channel 1013/824.7MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1649.39	-33.96	12.90	12.05	**-33.11**	-13.00	-20.11	H
2474.27	-35.01	12.80	16.27	-38.48	-13.00	-25.48	H
3297.95	-33.29	12.30	20.13	-41.12	-13.00	-28.12	H
1649.42	-35.85	12.90	12.05	-35.00	-13.00	-22.00	V
2474.39	-33.84	12.80	16.27	-37.31	-13.00	-24.31	V
3298.12	-32.40	12.30	20.13	-40.23	-13.00	-27.23	V
The Worst Test Results for Channel 384/836.52MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1673.38	-34.74	12.90	12.05	**-33.89**	-13.00	-20.89	H
2509.72	-35.18	12.80	16.27	-38.65	-13.00	-25.65	H
3346.27	-33.28	12.30	20.13	-41.11	-13.00	-28.11	H
1673.48	-36.00	12.90	12.05	-35.15	-13.00	-22.15	V
2509.67	-34.38	12.80	16.27	-37.85	-13.00	-24.85	V
3346.16	-32.18	12.30	20.13	-40.01	-13.00	-27.01	V
The Worst Test Results for Channel 1175/848.31MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
1696.63	-34.55	12.90	12.05	**-33.70**	-13.00	-20.70	H
2544.43	-35.33	12.80	16.27	-38.80	-13.00	-25.80	H
3393.82	-32.42	12.30	20.13	-40.25	-13.00	-27.25	H
1696.19	-35.51	12.90	12.05	-34.66	-13.00	-21.66	V
2544.44	-34.44	12.80	16.27	-37.91	-13.00	-24.91	V
3393.53	-33.10	12.30	20.13	-40.93	-13.00	-27.93	V

Note: (1) Below 30MHz no Spurious found is the worst condition.

(2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

CDMA BC1(30-20000)MHz

CDMA BC1: (30-20000)MHz							
The Worst Test Results for Channel 25/1851.25MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3702.28	-34.45	12.60	12.93	**-34.78**	-13.00	-21.78	H
5553.50	-34.59	13.10	17.11	-38.60	-13.00	-25.60	H
7405.83	-32.29	11.50	22.20	-42.99	-13.00	-29.99	H
3702.50	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5553.74	-34.74	13.10	17.11	-38.75	-13.00	-25.75	V
7405.57	-32.73	11.50	22.20	-43.43	-13.00	-30.43	V
The Worst Test Results for Channel 600/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3760.01	-33.83	12.60	12.93	**-34.16**	-13.00	-21.16	H
5640.11	-34.82	13.10	17.11	-38.83	-13.00	-25.83	H
7520.17	-32.49	11.50	22.20	-43.19	-13.00	-30.19	H
3760.19	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5640.02	-35.00	13.10	17.11	-39.01	-13.00	-26.01	V
7520.30	-32.18	11.50	22.20	-42.88	-13.00	-29.88	V
The Worst Test Results for Channel 1175/1908.75MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit （dBm）	Margin (dBm)	Polarity
3817.72	-34.49	12.60	12.93	**-34.82**	-13.00	-21.82	H
5725.91	-34.12	13.10	17.11	-38.13	-13.00	-25.13	H
7635.24	-32.74	11.50	22.20	-43.44	-13.00	-30.44	H
3817.30	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5726.05	-35.04	13.10	17.11	-39.05	-13.00	-26.05	V
7634.99	-33.03	11.50	22.20	-43.73	-13.00	-30.73	V

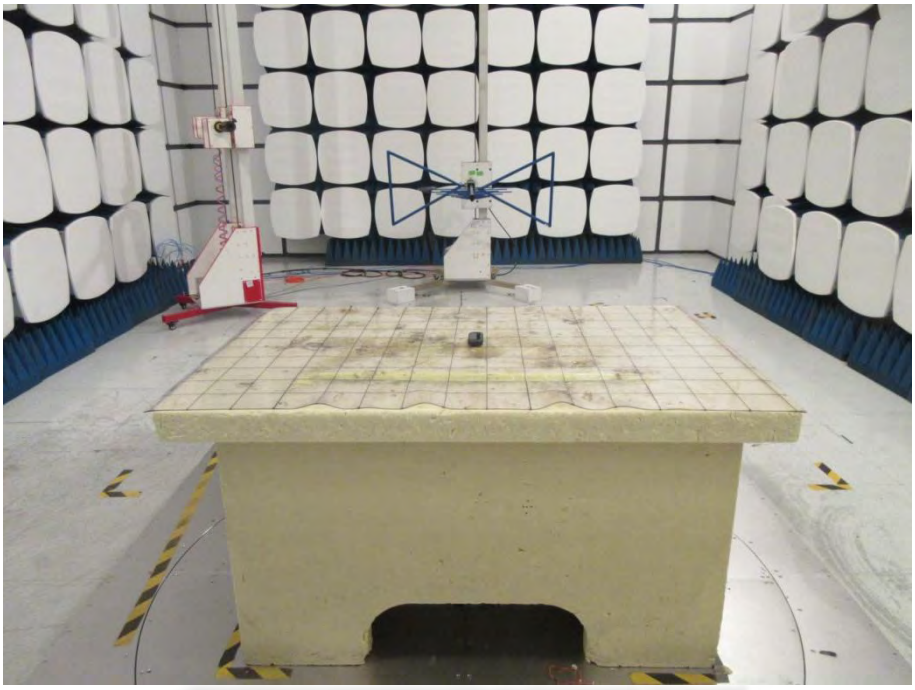
Note: (1) Below 30MHz no Spurious found is the worst condition.

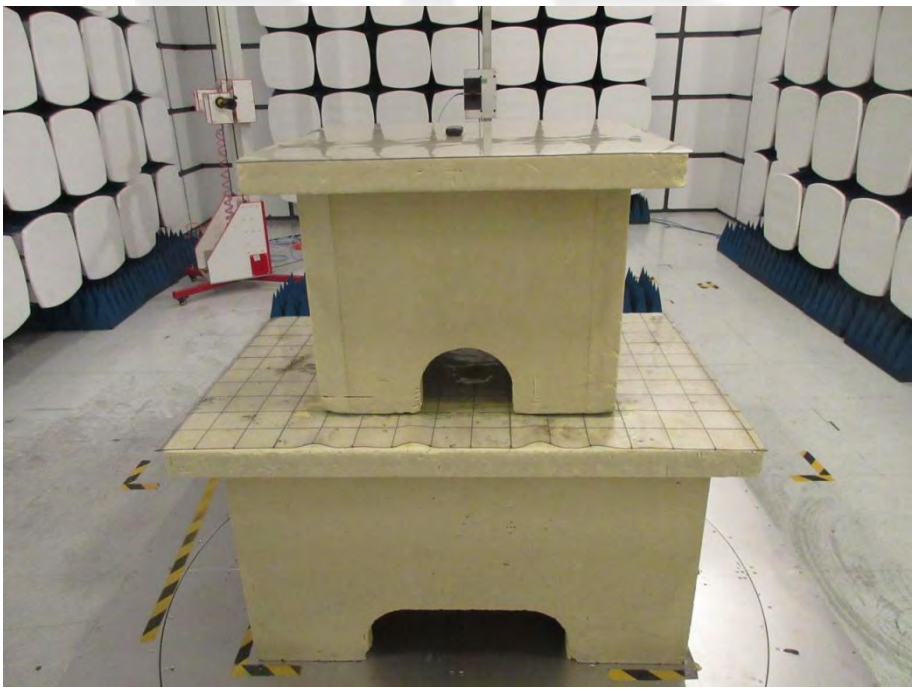
(2) Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

APPENDIX BPHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





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