



RADIO TEST REPORT

Report No.: STS2005238W01

Issued for

PCD, LLC

1500 TRADEPORT DR. ORLANDO, FL. 32824. USA

Product Name:	mobile phone
Brand Name:	PCD
Model Name:	U15
Series Model:	N/A
FCC ID:	2ALJJU15
Test Standard:	FCC Part 22H and 24E

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**TEST RESULT CERTIFICATION**

Applicant's Name: PCD, LLC
Address: 1500 TRADEPORT DR. ORLANDO, FL. 32824. USA
Manufacture's Name: PCD, LLC
Address: 1500 TRADEPORT DR. ORLANDO, FL. 32824. USA

Product Description

Product Name: mobile phone
Brand Name: PCD
Model Name: U15
Series Model: N/A
Test Standards: FCC Part 22H and 24E
Test Procedure: KDB 971168 D01 v03r01, ANSI C63.26(2015)

This device described above has been tested by STS, 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 receipt of test item.....: 26 May 2020
Date (s) of performance of tests.: 26 May 2020 ~ 03 June 2020
Date of Issue: 03 June 2020
Test Result: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	03 June 2020	STS2005238W01	ALL	Initial Issue





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



1 INTRODUCTION

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 6.7\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 4.43\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 5\text{dB}$



2 PRODUCT INFORMATION

Product Name	mobile phone
Trade Name	PCD
Model Name	U15
Series Model	N/A
Model Difference	N/A
Tx Frequency:	GSM/GPRS: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz
Rx Frequency:	GSM/GPRS: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz
Max RF Output Power:	GSM850:31.81dBm, PCS1900:29.25dBm GPRS850(1-Slot):31.76dBm, GPRS1900(1-Slot):29.23dBm GPRS850(2-Slot):31.26dBm, GPRS1900(2-Slot):28.80dBm GPRS850(3-Slot):30.79dBm, GPRS1900(3-Slot):28.31dBm GPRS850(4-Slot):30.31dBm, GPRS1900(4-Slot):27.83dBm WCDMA Band V:23.70dBm, WCDMA Band II:24.74dBm
Type of Emission:	GSM(850): 316KGXW; PCS(1900): 323KGXW GPRS(850): 315KGXW; GPRS(1900): 317KGXW WCDMA850: 4M65F9W WCDMA1900: 4M66F9W
Modulation Characteristics:	GMSK for GSM/GPRS WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
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 gain:	GSM850: 1.65dBi, GSM1900: 1.25dBi WCDMA850: 1.66dBi, WCDMA1900: 1.22dBi
Battery parameter:	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 600mAh
Adapter:	Input: AC100-240V,150mA,50/60Hz Output: DC 5V,500mA,
GPRS Class:	Multi-Class12



Extreme Vol. Limits:	DC 3.4V~ DC 4.2V(Normal: DC 3.7V)
Extreme Temp. Tolerance:	-30℃ to +50℃
Hardware version number:	C719B_MB_V1.0
Software version number:	Z1706_PCD_U15_V03_20191227(20200413)
** Note: The High Voltage 3.4V and Low Voltage 4.2V 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 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:

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

RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
GSM	850	GSM	GMSK	4(power control level 5)	GSM850: 1.65dbi GSM1900: 1.25dbi	PIFA	2 SIM 1 is used to tested.
		GPRS (Class12)	GMSK	4			
	1900	GSM	GMSK	1(power control level 0)			
		GPRS (Class12)	GMSK	1			
RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
WCDMA	1/8	WCDMA	GMSK	3	WCDMA850: 1.66dbi WCDMA1900: 1.22dbi	PIFA	2 SIM 1 is used to tested.
		HSDPA	QPSK、16QAM				
		HSUPA	BPSK				



4 MEASUREMENT INSTRUMENTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2019.10.12	2020.10.11
Pre-Amplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2019.10.22	2020.10.21
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	119907	2020.10.11	2021.10.10
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	FARAD	LZ-RF /LzRf-3A3			

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

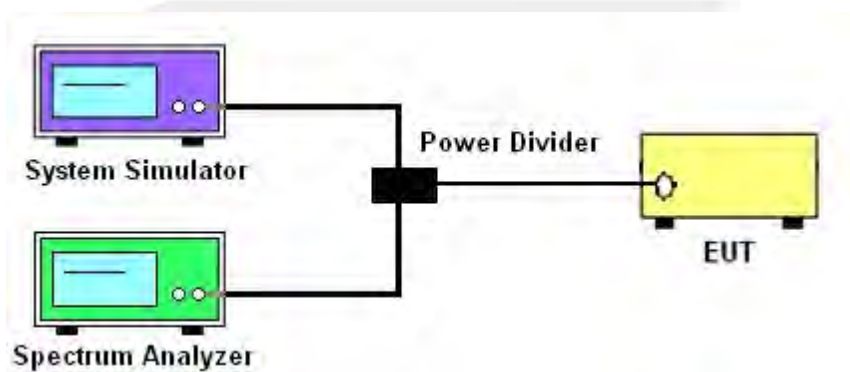
TEST OVERVIEW

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 fckdb 971168 v03r01 section.
2. The eut was connected to the spectrum analyzer 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 Section 5.8 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,
- $$\text{ERP/EIRP} = \text{P.SG} + \text{GT} - \text{LC}$$
- ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Me} as, typically dBW or dBm);
- P_{Meas}(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.

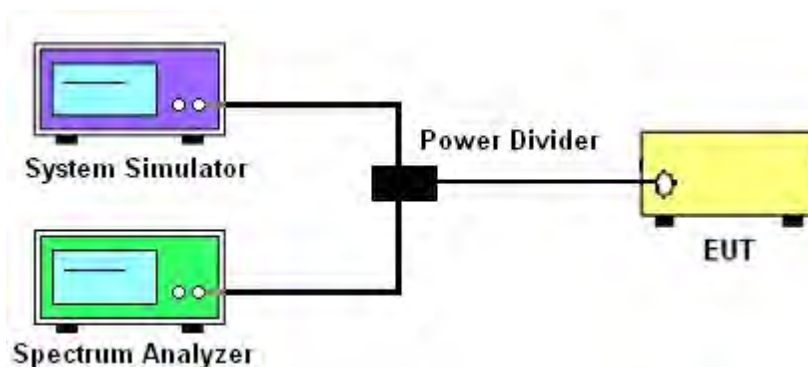
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) 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. $VBW \geq 3 \times RBW$
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 $\pm 0.00025\%$ (± 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

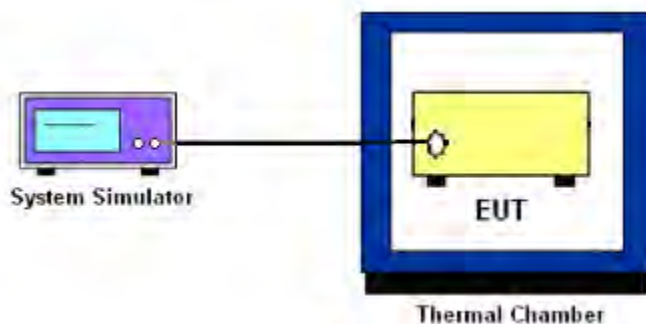
Temperature Variation

1. The testing follows fccdb 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 $25 \pm 5^\circ \text{C}$ 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.

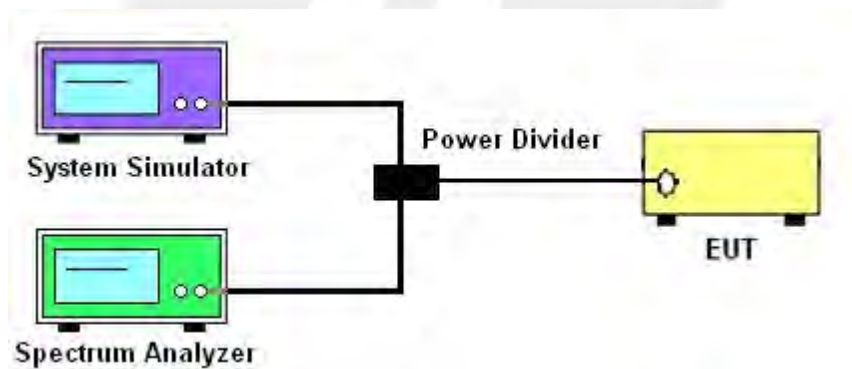
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

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 $43 + \log_{10}(P[\text{Watts}])$, 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.

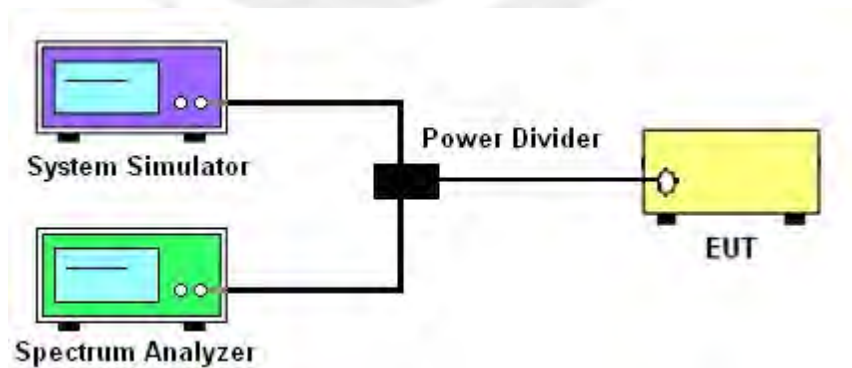
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

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 signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

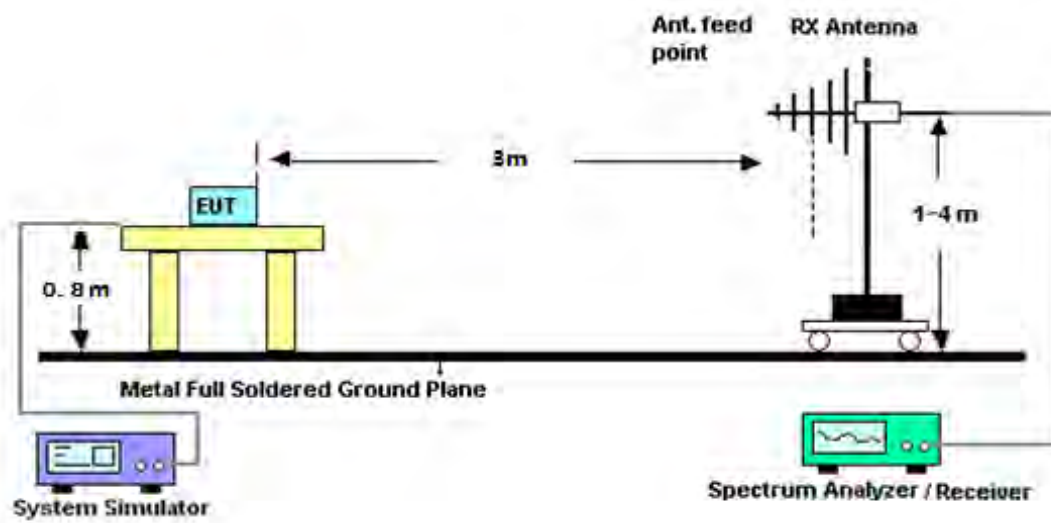
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

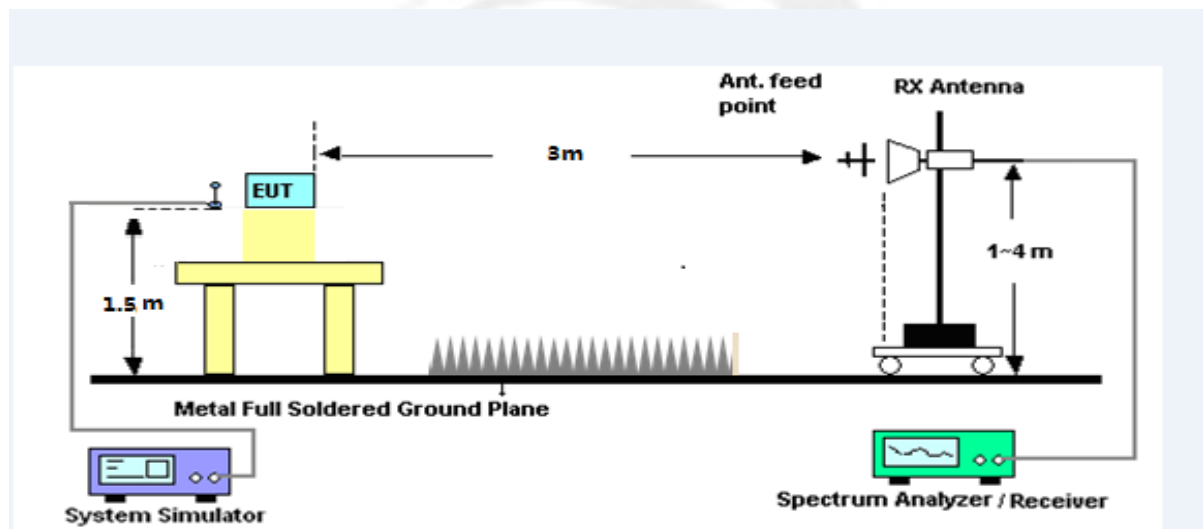
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. 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 P_{Meas} , typically 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:

GSM 850		
Mode	Frequency (MHz)	AVG Power(dBm)
GSM (GMSK,1-Slot)	824.2	31.58
	836.6	31.64
	848.8	31.81
GPRS (GMSK,1-Slot)	824.2	31.48
	836.6	31.59
	848.8	31.76
GPRS (GMSK,2-Slot)	824.2	31.00
	836.6	31.13
	848.8	31.26
GPRS (GMSK,3-Slot)	824.2	30.56
	836.6	30.64
	848.8	30.79
GPRS (GMSK,4-Slot)	824.2	30.12
	836.6	30.19
	848.8	30.31

PCS 1900:

PCS 1900		
Mode	Frequency (MHz)	AVG Power(dBm)
GSM (GMSK,1-Slot)	1850.2	29.25
	1880.0	28.96
	1909.8	28.92
GPRS (GMSK,1-Slot)	1850.2	29.23
	1880.0	28.94
	1909.8	28.88
GPRS (GMSK,2-Slot)	1850.2	28.80
	1880.0	28.49
	1909.8	28.41
GPRS (GMSK,3-Slot)	1850.2	28.31
	1880.0	28.08
	1909.8	27.96
GPRS (GMSK,4-Slot)	1850.2	27.83
	1880.0	27.61
	1909.8	27.52



UMTS BAND V

UMTS BAND V		
Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	23.70
	836.6	22.86
	846.6	23.09
HSDPA Subtest 1	826.4	18.32
	836.6	20.90
	846.6	19.46
HSDPA Subtest 2	826.4	17.83
	836.6	20.49
	846.6	19.06
HSDPA Subtest 3	826.4	17.39
	836.6	20.01
	846.6	18.60
HSDPA Subtest 4	826.4	16.95
	836.6	19.71
	846.6	18.10
HSUPA Subtest 1	826.4	20.81
	836.6	20.78
	846.6	20.42
HSUPA Subtest 2	826.4	19.87
	836.6	19.83
	846.6	19.50
HSUPA Subtest 3	826.4	19.86
	836.6	19.38
	846.6	19.14
HSUPA Subtest 4	826.4	19.40
	836.6	18.99
	846.6	18.70
HSUPA Subtest 5	826.4	17.94
	836.6	17.56
	846.6	17.27



UMTS BAND II

UMTS BAND II		
Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	24.74
	1880	24.58
	1907.6	24.67
HSDPA Subtest 1	1852.4	20.37
	1880	20.37
	1907.6	20.21
HSDPA Subtest 2	1852.4	19.92
	1880	19.96
	1907.6	19.79
HSDPA Subtest 3	1852.4	19.43
	1880	19.55
	1907.6	19.39
HSDPA Subtest 4	1852.4	19.07
	1880	19.20
	1907.6	18.91
HSUPA Subtest 1	1852.4	20.81
	1880	20.78
	1907.6	20.42
HSUPA Subtest 2	1852.4	19.96
	1880	19.79
	1907.6	19.46
HSUPA Subtest 3	1852.4	19.90
	1880	19.39
	1907.6	19.07
HSUPA Subtest 4	1852.4	19.57
	1880	18.95
	1907.6	18.57
HSUPA Subtest 5	1852.4	18.11
	1880	17.46
	1907.6	17.16



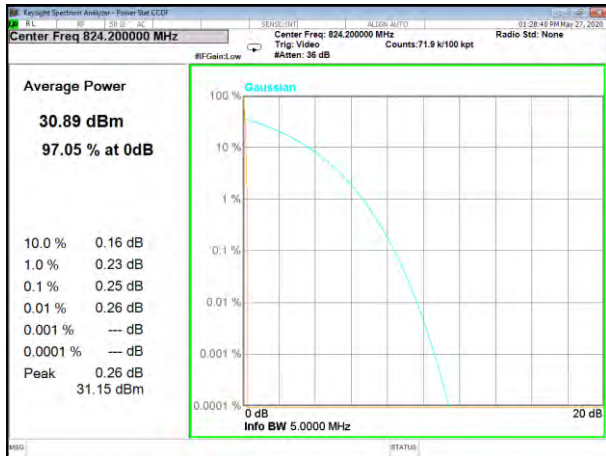
A2. PEAK-TO-AVERAGE RADIO

GSM 850		
Mode	Frequency (MHz)	PAR
GSM 850	824.2	0.25
	836.6	0.24
	848.8	0.24
GPRS 850	824.2	0.22
	836.6	0.23
	848.8	0.23

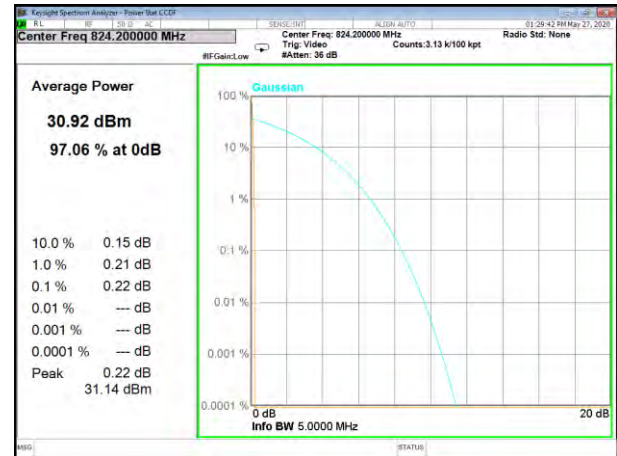
PCS 1900		
Mode	Frequency (MHz)	PAR
PCS 1900	1850.2	0.19
	1880	0.17
	1909.8	0.18
GPRS 1900	1850.2	0.18
	1880	0.17
	1909.8	0.18

UMTS Band II		
Mode	Frequency (MHz)	PAR
WCDMA 1900 RMC	1852.4	2.76
	1880	2.74
	1907.6	2.81
HSDPA 1900	1852.4	3.17
	1880	3.16
	1907.6	3.10
HSUPA 1900	1852.4	3.06
	1880	3.10
	1907.6	3.23

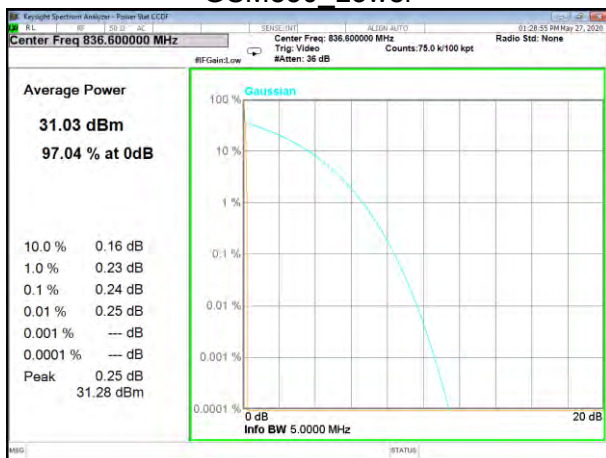
UMTS Band V		
Mode	Frequency (MHz)	PAR
WCDMA 850 RMC	826.4	3.14
	836.6	2.99
	846.6	3.07
HSDPA 850	826.4	3.31
	836.6	3.18
	846.6	3.43
HSUPA 850	826.4	3.31
	836.6	3.42
	846.6	3.40



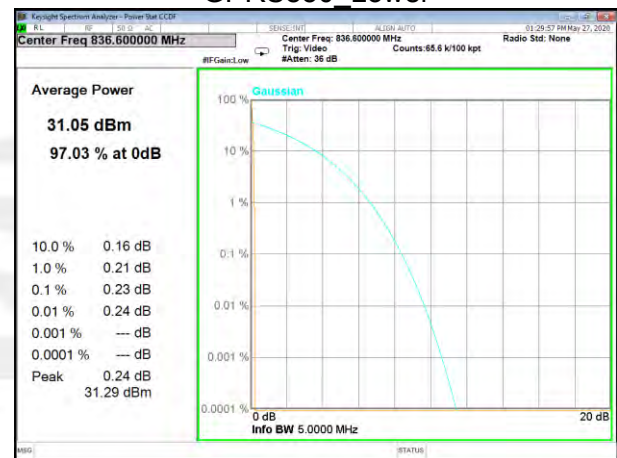
GSM850_Lower



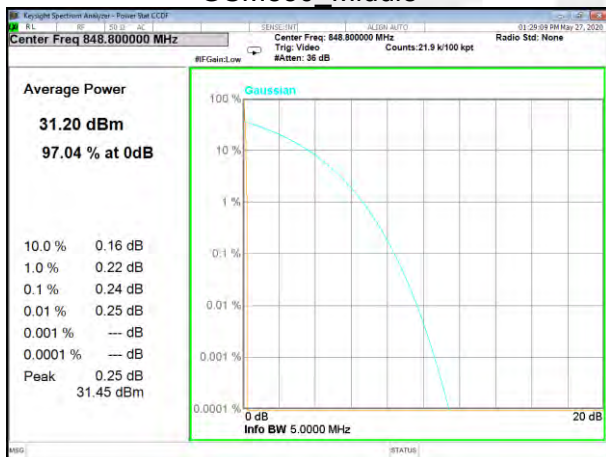
GPRS850_Lower



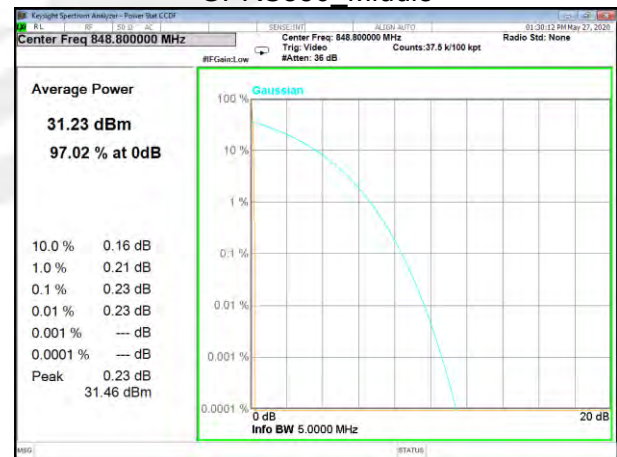
GSM850_Middle



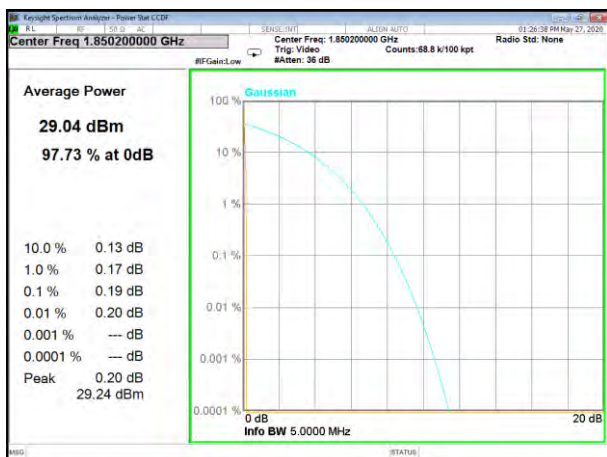
GPRS850_Middle



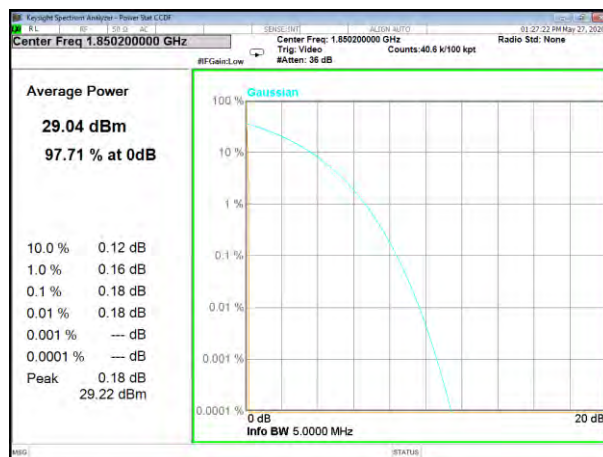
GSM850_Higher



GPRS850_Higher



GSM1900_Lower



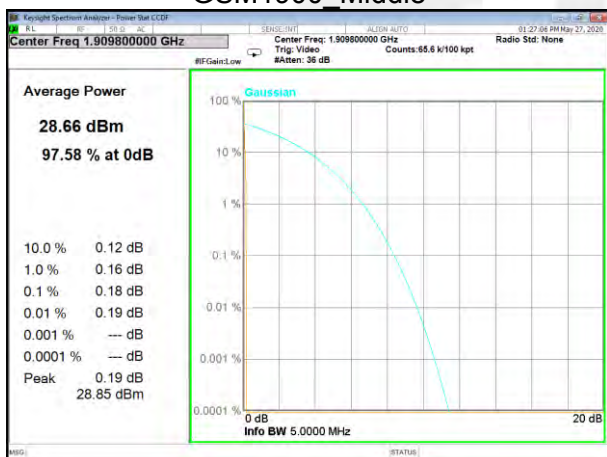
GPRS1900_Lower



GSM1900_Middle



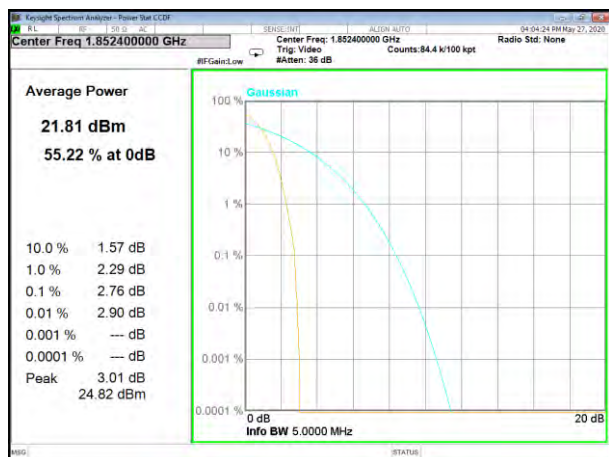
GPRS1900_Middle



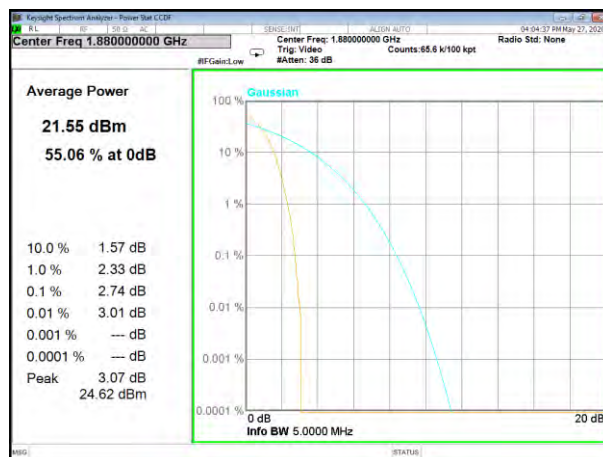
GSM1900_Higher



GPRS1900_Higher



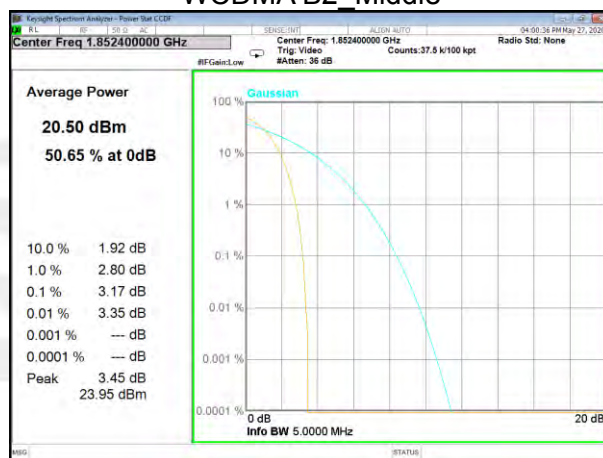
WCDMA B2_Low



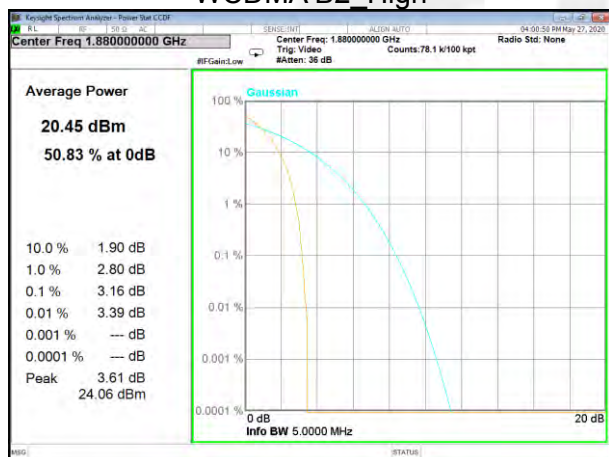
WCDMA B2_Middle



WCDMA B2_High



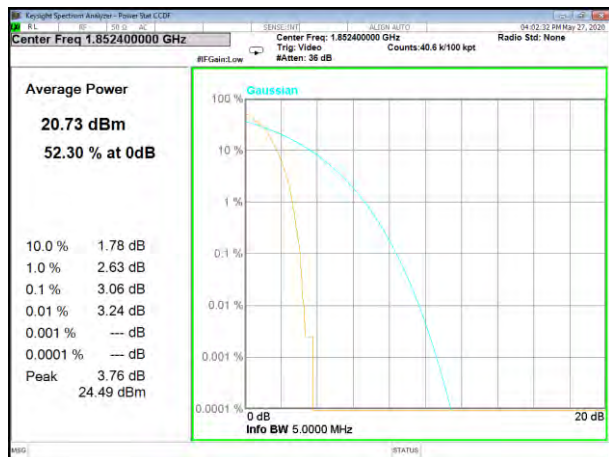
HSDPA B2_Low



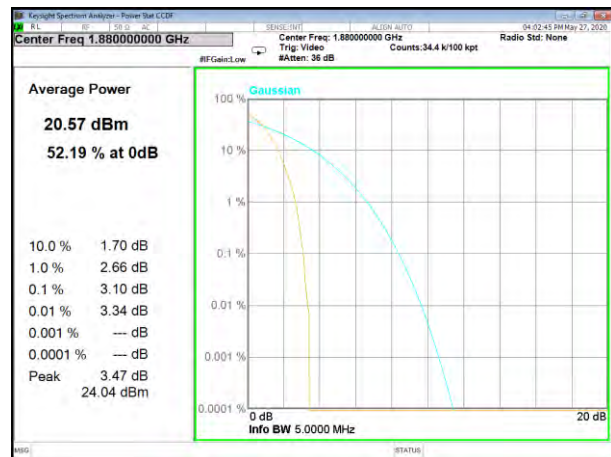
HSDPA B2_Middle



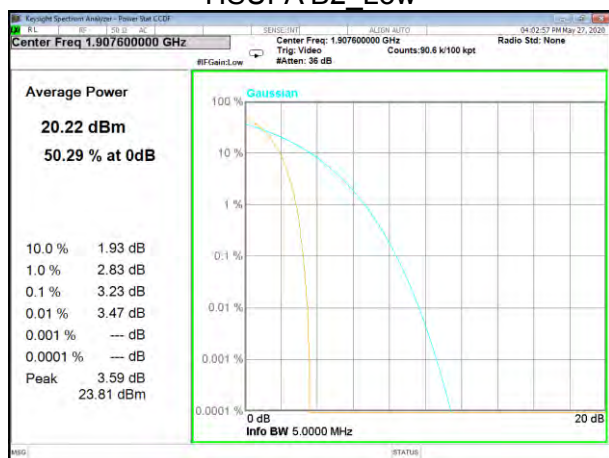
HSDPA B2_High



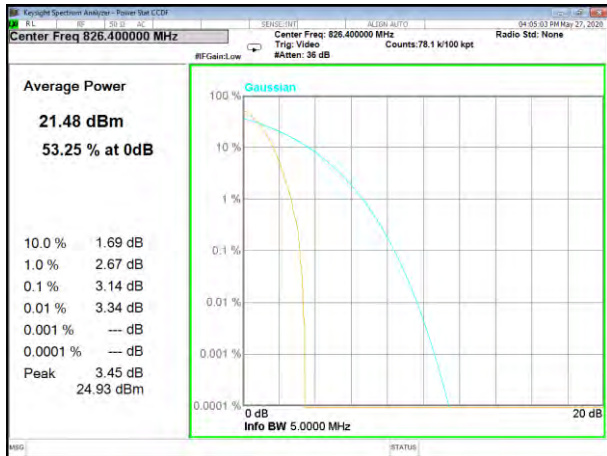
HSUPA B2_Low



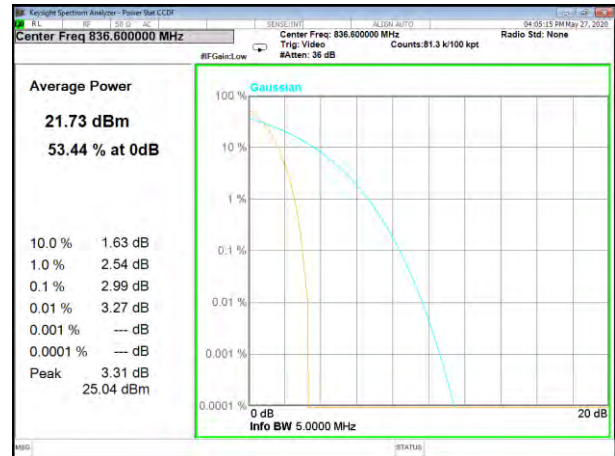
HSUPA B2_Middle



HSUPA B2_High



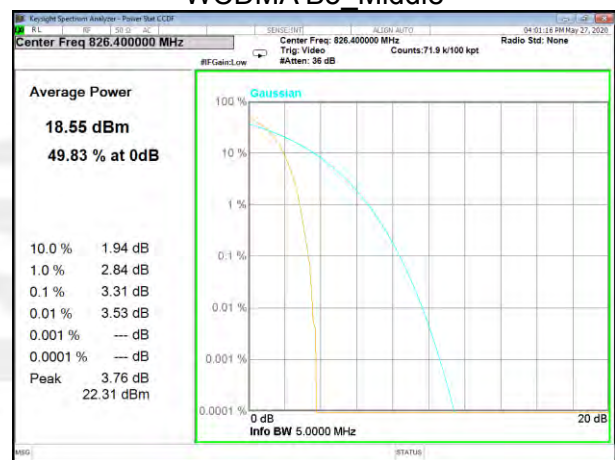
WCDMA B5_Low



WCDMA B5_Middle



WCDMA B5_High



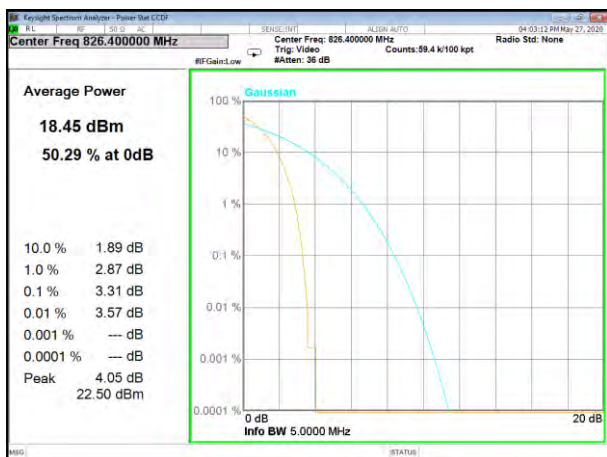
HSDPA B5_Low



HSDPA B5_Middle



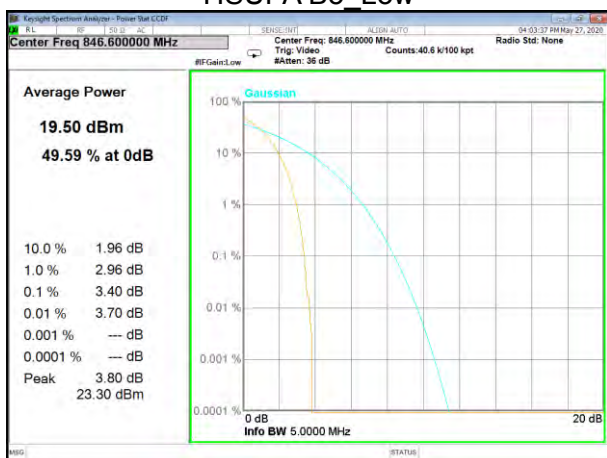
HSDPA B5_High



HSPA B5_Low



HSPA B5_Middle



HSPA B5_High



A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

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

Radiated Power (ERP) for GSM 850 MHZ								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain(dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	25.08	0.44	6.5	2.15	28.99	Horizontal	Pass
	824.2	27.00	0.44	6.5	2.15	30.91	Vertical	Pass
	836.6	25.41	0.45	6.5	2.15	29.31	Horizontal	Pass
	836.6	27.24	0.45	6.5	2.15	31.14	Vertical	Pass
	848.8	25.39	0.46	6.5	2.15	29.28	Horizontal	Pass
	848.8	27.15	0.46	6.5	2.15	31.04	Vertical	Pass
GPRS850	824.2	24.89	0.44	6.5	2.15	28.80	Horizontal	Pass
	824.2	27.02	0.44	6.5	2.15	30.93	Vertical	Pass
	836.6	24.53	0.45	6.5	2.15	28.43	Horizontal	Pass
	836.6	26.91	0.45	6.5	2.15	30.81	Vertical	Pass
	848.8	25.18	0.46	6.5	2.15	29.07	Horizontal	Pass
	848.8	27.29	0.46	6.5	2.15	31.18	Vertical	Pass
Limit	ERP<7W=38.45dBm							

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. ERP	
PCS1900	1850.2	18.69	2.41	10.35	26.63	Horizontal	Pass
	1850.2	20.5	2.41	10.35	28.44	Vertical	Pass
	1880	18.43	2.42	10.35	26.36	Horizontal	Pass
	1880	20.36	2.42	10.35	28.29	Vertical	Pass
	1909.8	18.58	2.43	10.35	26.50	Horizontal	Pass
	1909.8	20.41	2.43	10.35	28.33	Vertical	Pass
GPRS1900	1850.2	17.77	2.41	10.35	25.71	Horizontal	Pass
	1850.2	20.13	2.41	10.35	28.07	Vertical	Pass
	1880	17.73	2.42	10.35	25.66	Horizontal	Pass
	1880	19.92	2.42	10.35	27.85	Vertical	Pass
	1909.8	17.64	2.43	10.35	25.56	Horizontal	Pass
	1909.8	19.69	2.43	10.35	27.61	Vertical	Pass
Limit	EIRP<2W=33dBm						



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	
WCDMA	1852.4	14.42	2.41	10.35	22.36	Horizontal	Pass
	1852.4	16.26	2.41	10.35	24.20	Vertical	Pass
	1880	14.13	2.42	10.35	22.06	Horizontal	Pass
	1880	16.1	2.42	10.35	24.03	Vertical	Pass
	1907.4	14.32	2.43	10.35	22.24	Horizontal	Pass
	1907.4	16.11	2.43	10.35	24.03	Vertical	Pass
HSUPA	1852.4	9.91	2.41	10.35	17.85	Horizontal	Pass
	1852.4	11.83	2.41	10.35	19.77	Vertical	Pass
	1880	9.74	2.42	10.35	17.67	Horizontal	Pass
	1880	11.59	2.42	10.35	19.52	Vertical	Pass
	1907.4	9.78	2.43	10.35	17.70	Horizontal	Pass
	1907.4	11.49	2.43	10.35	19.41	Vertical	Pass
HSDPA	1852.4	10.16	2.41	10.35	18.10	Horizontal	Pass
	1852.4	12	2.41	10.35	19.94	Vertical	Pass
	1880	10.29	2.42	10.35	18.22	Horizontal	Pass
	1880	12.13	2.42	10.35	20.06	Vertical	Pass
	1907.4	9.78	2.43	10.35	17.70	Horizontal	Pass
	1907.4	11.6	2.43	10.35	19.52	Vertical	Pass
Limit	EIRP<2W=33dBm						

Radiated Power (ERP) for WCDMA Band V								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	17.41	0.44	6.5	2.15	21.32	Horizontal	Pass
	826.4	19.24	0.44	6.5	2.15	23.15	Vertical	Pass
	836.6	16.35	0.45	6.5	2.15	20.25	Horizontal	Pass
	836.6	18.34	0.45	6.5	2.15	22.24	Vertical	Pass
	846.4	16.94	0.46	6.5	2.15	20.83	Horizontal	Pass
	846.4	18.70	0.46	6.5	2.15	22.59	Vertical	Pass
HSUPA	826.4	11.98	0.44	6.5	2.15	15.89	Horizontal	Pass
	826.4	13.81	0.44	6.5	2.15	17.72	Vertical	Pass
	836.6	14.48	0.45	6.5	2.15	18.38	Horizontal	Pass
	836.6	16.27	0.45	6.5	2.15	20.17	Vertical	Pass
	846.4	13.11	0.46	6.5	2.15	17.00	Horizontal	Pass
	846.4	14.99	0.46	6.5	2.15	18.88	Vertical	Pass
HSDPA	826.4	14.37	0.44	6.5	2.15	18.28	Horizontal	Pass
	826.4	16.35	0.44	6.5	2.15	20.26	Vertical	Pass
	836.6	14.50	0.45	6.5	2.15	18.40	Horizontal	Pass
	836.6	16.34	0.45	6.5	2.15	20.24	Vertical	Pass
	846.4	14.08	0.46	6.5	2.15	17.97	Horizontal	Pass
	846.4	15.90	0.46	6.5	2.15	19.79	Vertical	Pass
Limit	ERP<7W=38.45dBm							



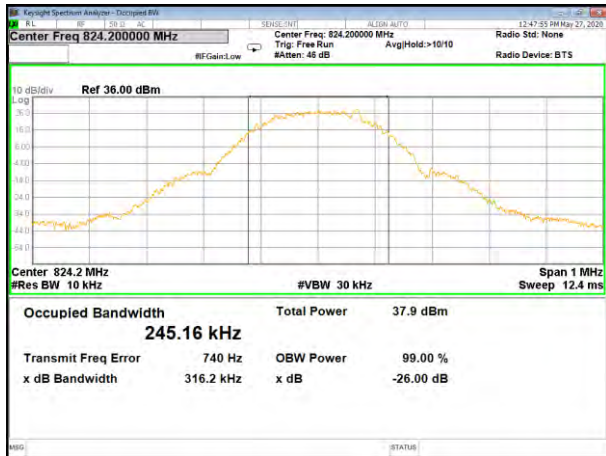
A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM850	245.16	316.2	243.06	315.1	245.69	316.3
GPRS850	245.86	317.7	245.15	313.6	249.56	323.1

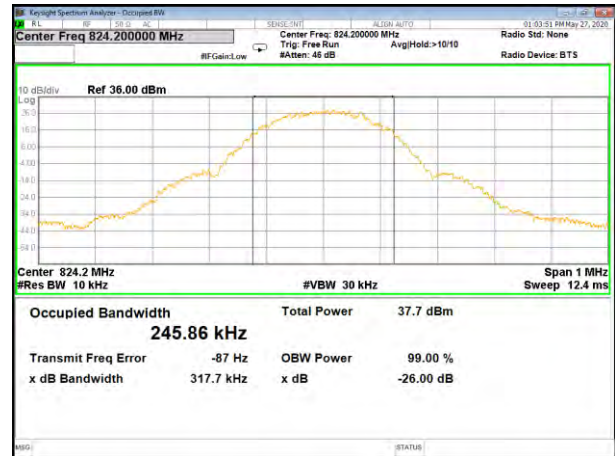
GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM1900	242.9	311.6	245.78	314.1	245.91	314.9
GPRS1900	245.85	312.7	244.81	317	243.46	310

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA II	4.0843	4.644	4.0957	4.643	4.0878	4.638
HSDPA II	4.0908	4.645	4.0882	4.657	4.0773	4.638
HSUPA II	4.085	4.641	4.0897	4.648	4.0889	4.637

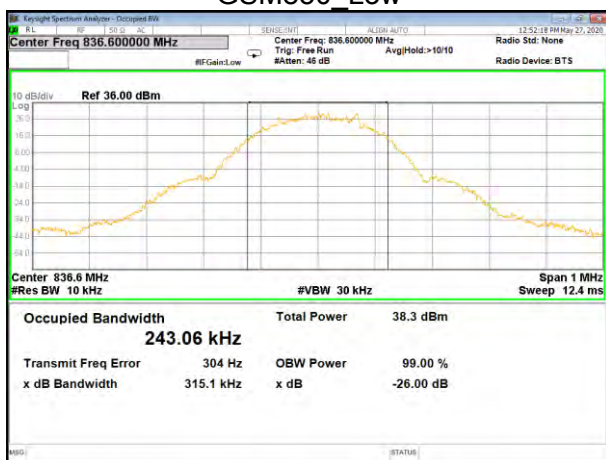
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA V	4.0966	4.636	4.0672	4.631	4.0808	4.641
HSDPA V	4.0988	4.638	4.0835	4.628	4.0864	4.646
HSUPA V	4.0935	4.641	4.0707	4.621	4.0897	4.633



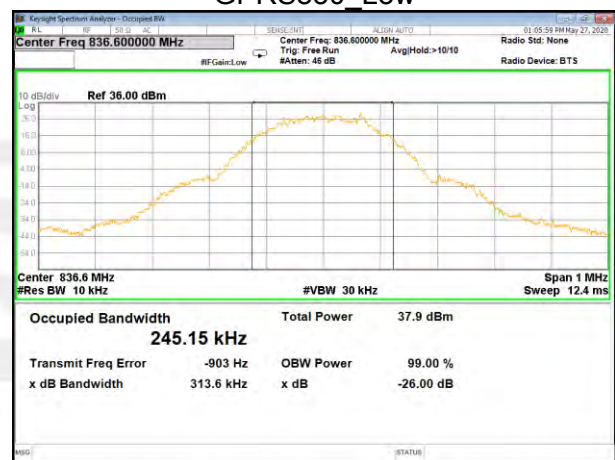
GSM850_Low



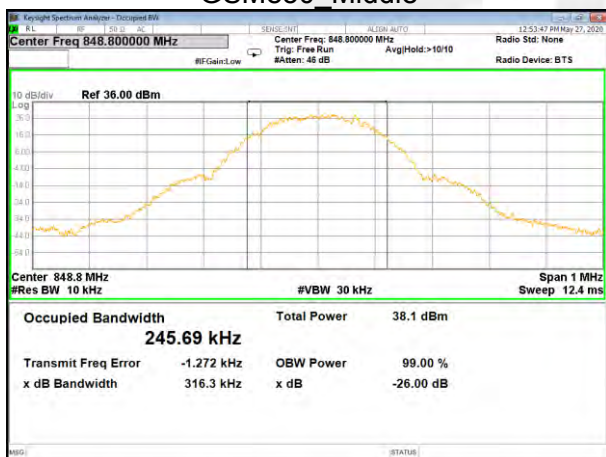
GPRS850_Low



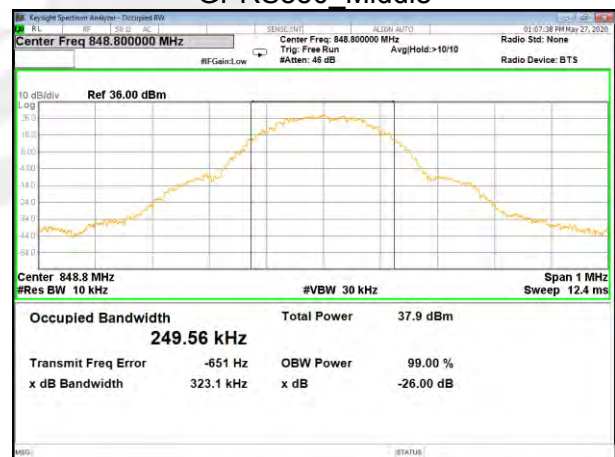
GSM850_Middle



GPRS850_Middle



GSM850_High



GPRS850_High

Keyight Spectrum Analyzer - Decoded BW

Center Freq 1.850200000 GHz

Center Freq: 1.850200000 GHz
 Trig: Free Run
 #Aver: 66 dB

Radio Std: None
 Radio Device: BTS

10 dB/div Ref 36.00 dBm

Center 1.85 GHz
 #Res BW 10 kHz

#VBW 30 kHz

Span 1 MHz
 Sweep 12.4 ms

Occupied Bandwidth	Total Power	35.9 dBm
242.90 kHz		
Transmit Freq Error	-341 Hz	OSBW Power
x dB Bandwidth	311.6 kHz	99.00 %
		-26.00 dB

Keylight Spectrum Analyzer - Occupied BW

Center Freq 1.850200000 GHz

Center Freq: 1.850200000 GHz
 Trig: Free Run
 #Attenu: 40 dB

Radio Std: None
 Radio Device: BTS

10 dBmV Ref 36.00 dBm

Center 1.85 GHz
 #Res BW 10 kHz

#VBW 30 kHz

Span 1 MHz
 Sweep 12.4 ms

Occupied Bandwidth

245.85 kHz

Transmit Freq Error -6 Hz

x dB Bandwidth 312.7 kHz

Total Power 35.4 dBm

OBW Power 99.00 %

x dB -26.00 dB

Keysight Spectrum Analyzer - Occupied BW

09:14:34 Fri May 22, 2020

Center Freq 1.880000000 GHz

Trig: Free Run

Avg/Hold: >10/10

Radio Std: None

Radio Device: BTS

#Res BW 10 kHz

#VBW 30 kHz

Span 1 MHz

Sweep 12.4 ms

10 dBmV

Ref 36.00 dBm

245.78 kHz

Occupied Bandwidth

Total Power 35.4 dBm

Transmit Freq Error 949 Hz

OSW Power 99.00 %

x dB Bandwidth 314.1 kHz

x dB -26.00 dB

KeySight Spectrum Analyzer - Occupied BW

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz

Trig: Free Run

#Attenu: 45 dB

Radio Std: None

Radio Device: BTS

Span 1 MHz

Sweep 12.4 ms

Occupied Bandwidth

244.81 kHz

Transmit Freq Error -132 Hz

OSW Power 99.00 %

x dB Bandwidth 317.0 kHz

x dB -26.00 dB

Keylight Spectrum Analyzer - Disagreed BW

01:16:50 Sat May 22, 2020

Center Freq 1.909800000 GHz

Radio Std: None

Radio Device: BTS

Center Freq: 1.909800000 GHz

Trig: Free Run

Avg/Hold: >10/10

#RefGain: Low

#RefGain: -66 dB

10 dB/div

Ref 36.00 dBm

Center 1.91 GHz

#Res BW 10 kHz

#VBW 30 kHz

Span 1 MHz

Sweep 12.4 ms

Occupied Bandwidth

245.91 kHz

Total Power

35.1 dBm

Transmit Freq Error

-96 Hz

OSW Power

99.00 %

x dB Bandwidth

314.9 kHz

x dB

-26.00 dB

Keyplot Spectrum Analyzer - Occupied BW

Center Freq 1.909800000 GHz

Center Freq: 1.909800000 GHz

Trig: Free Run

Arg/Hold: >10/10

Radio Std: None

#F Gates Low

Radio Device: BT5

10 dB/div Ref 36.00 dBm

Center 1.91 GHz

#Res BW 10 kHz

#VBW 30 kHz

Span 1 MHz

Sweep 12.4 ms

Occupied Bandwidth

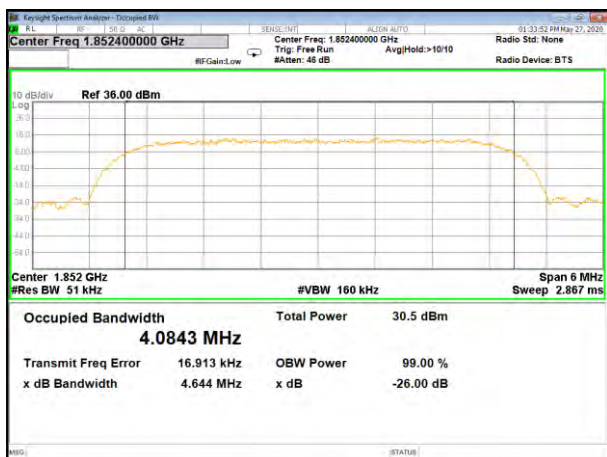
243.46 kHz

Transmit Freq Error 95 Hz

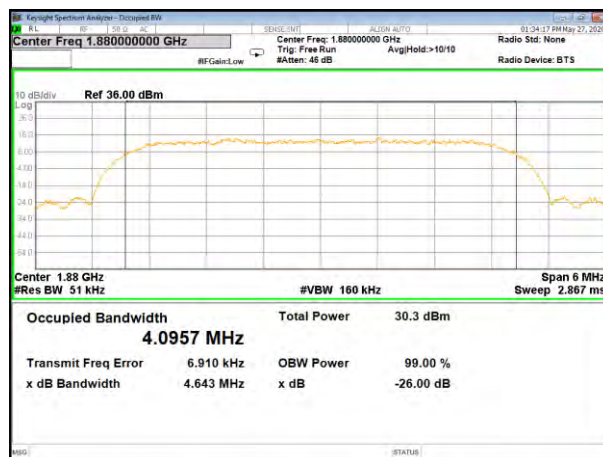
OBW Power 99.00 %

x dB Bandwidth 310.0 kHz

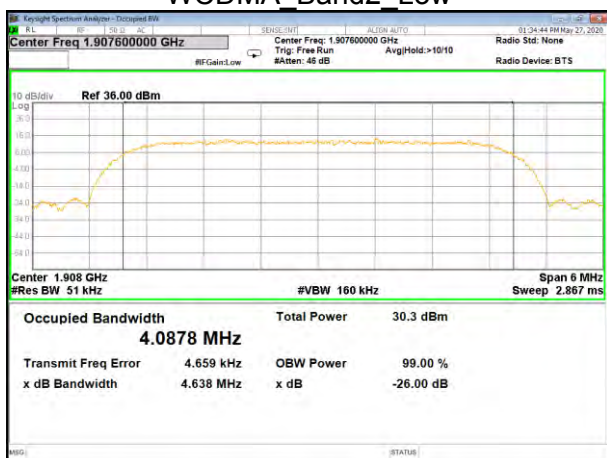
x dB -26.00 dB



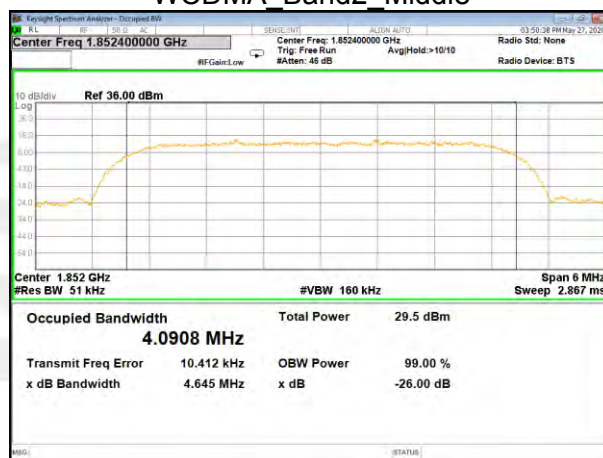
WCDMA_Band2_Low



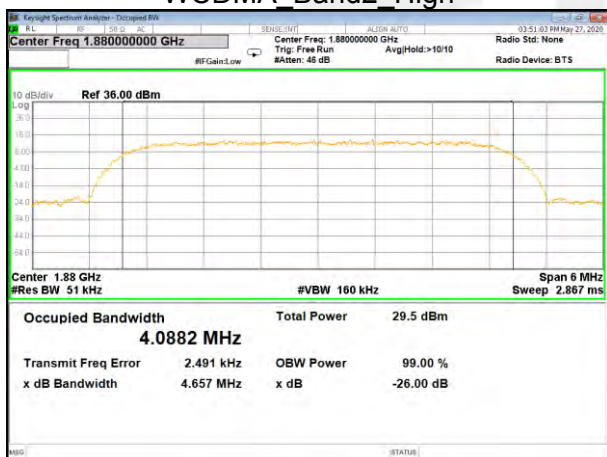
WCDMA_Band2_Middle



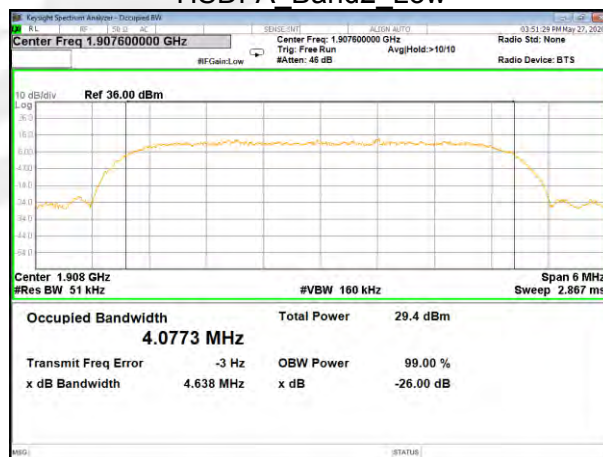
WCDMA_Band2_High



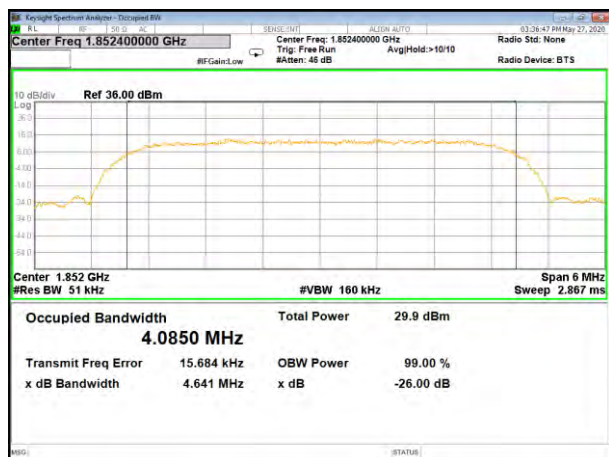
HSDPA_Band2_Low



HSDPA_Band2_Middle



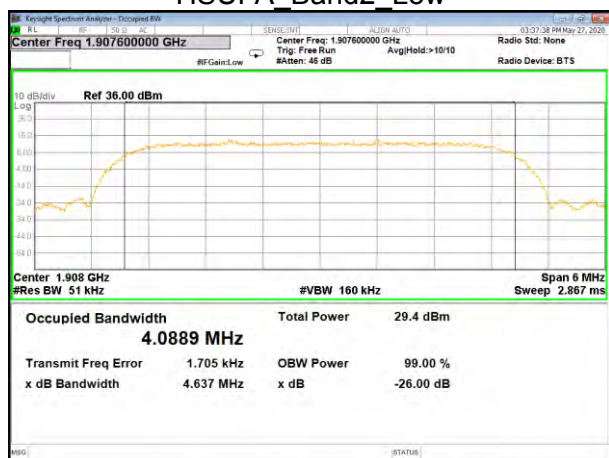
HSDPA_Band2_High



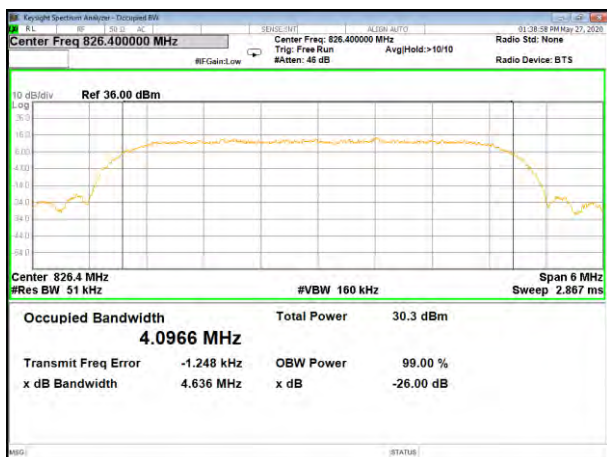
HSUPA_Band2_Low



HSUPA_Band2_Middle



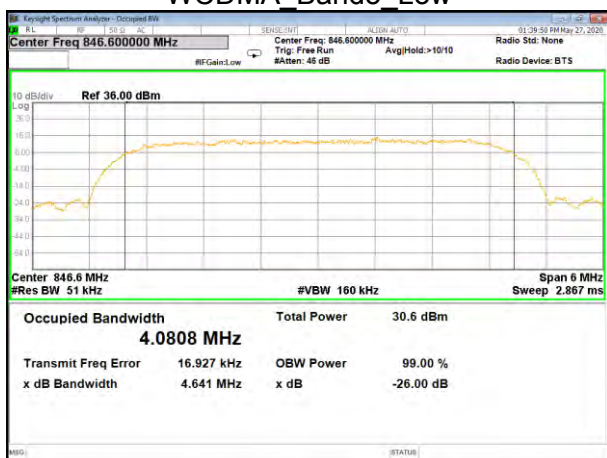
HSUPA_Band2_High



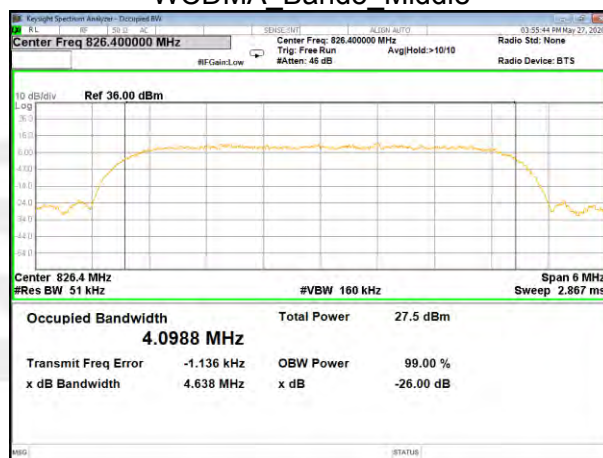
WCDMA_Band5_Low



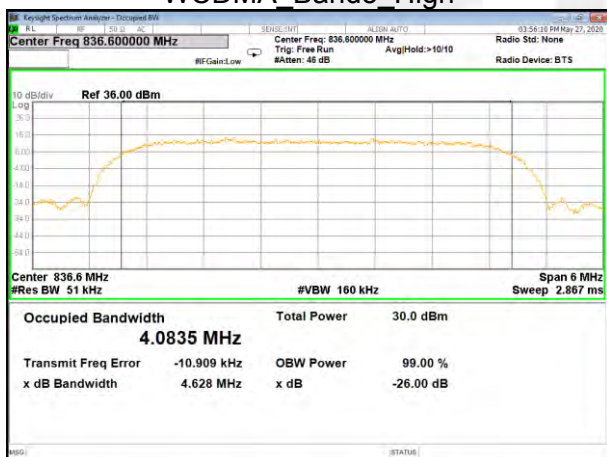
WCDMA_Band5_Middle



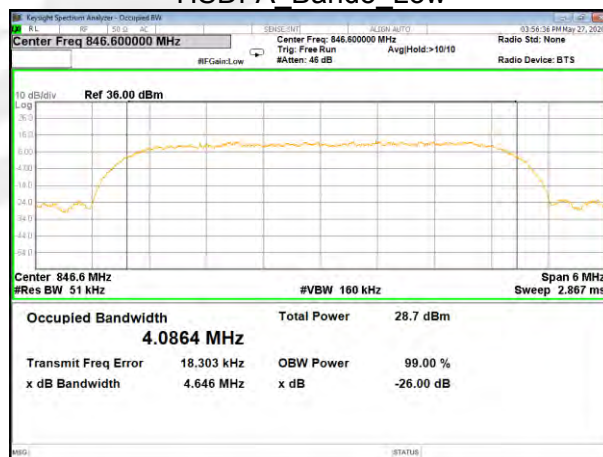
WCDMA_Band5_High



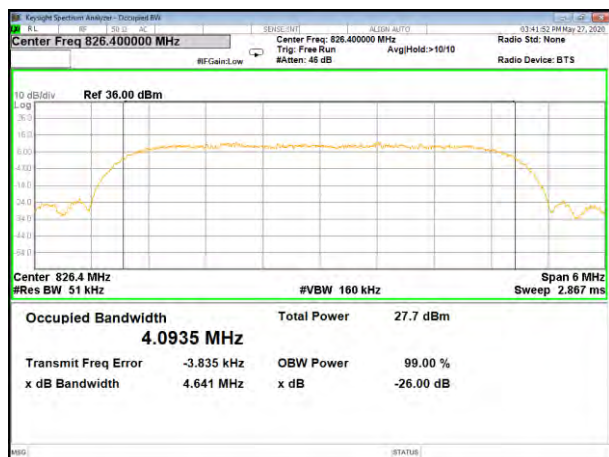
HSDPA_Band5_Low



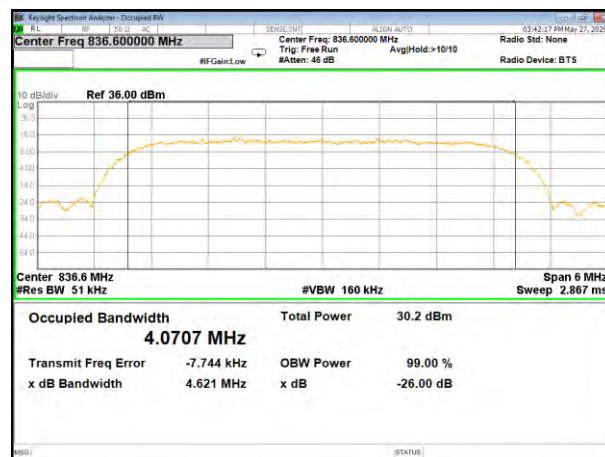
HSDPA_Band5_Middle



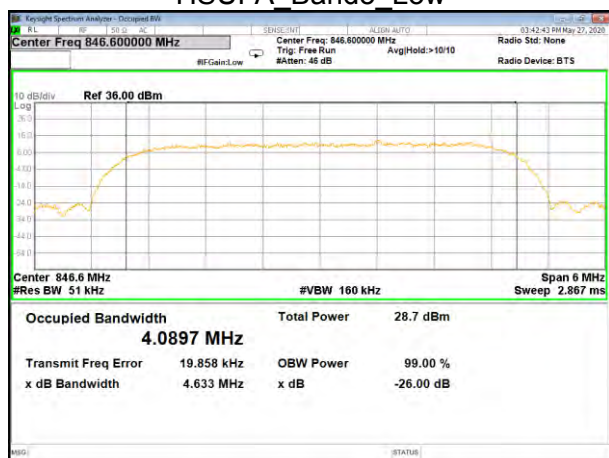
HSDPA_Band5_High



HSUPA_Band5_Low



HSUPA_Band5_Middle



HSUPA_Band5_High



A5.FREQUENCY STABILITY

Normal Voltage = 3.7V; Battery End Point (BEP) = 4.2V; Maximum Voltage =3.4V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.22	0.025	2.5ppm	PASS
40		16.24	0.019		
30		31.83	0.038		
20		25.02	0.030		
10		21.72	0.026		
0		29.39	0.035		
-10		20.18	0.024		
-20		26.96	0.032		
-30		12.01	0.014		
25	Maximum Voltage	16.89	0.020		
25	BEP	29.35	0.035		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.22	0.043	2.5ppm	PASS
40		17.87	0.021		
30		24.36	0.029		
20		17.39	0.021		
10		12.02	0.014		
0		36.19	0.043		
-10		23.23	0.028		
-20		21.12	0.025		
-30		15.11	0.018		
25	Maximum Voltage	15.56	0.019		
25	BEP	27.83	0.033		



GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.41	0.008	Within Authorized Band	PASS
40		13.31	0.007		
30		21.35	0.011		
20		33.15	0.018		
10		18.26	0.010		
0		28.15	0.015		
-10		35.27	0.019		
-20		27.77	0.015		
-30		21.14	0.011		
25	Maximum Voltage	25.77	0.014		
25	BEP	35.90	0.019		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	25.56	0.014	Within Authorized Band	PASS
40		30.12	0.016		
30		19.88	0.011		
20		26.31	0.014		
10		30.00	0.016		
0		19.79	0.011		
-10		33.99	0.018		
-20		33.79	0.018		
-30		33.09	0.018		
25	Maximum Voltage	23.03	0.012		
25	BEP	25.17	0.013		



UMTS Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.99	0.013	Within Authorized Band	PASS
40		16.60	0.009		
30		19.96	0.011		
20		32.37	0.017		
10		15.52	0.008		
0		26.37	0.014		
-10		23.76	0.013		
-20		29.92	0.016		
-30		22.94	0.012		
25	Maximum Voltage	18.93	0.010		
25	BEP	27.24	0.014		

HSDPA Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	19.37	0.010	Within Authorized Band	PASS
40		23.04	0.012		
30		12.59	0.007		
20		16.67	0.009		
10		13.33	0.007		
0		19.03	0.010		
-10		35.04	0.019		
-20		35.90	0.019		
-30		25.97	0.014		
25	Maximum Voltage	31.25	0.017		
25	BEP	19.22	0.010		

HSUPA Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.38	0.018	Within Authorized Band	PASS
40		22.98	0.012		
30		30.56	0.016		
20		14.60	0.008		
10		21.55	0.011		
0		28.18	0.015		
-10		31.56	0.017		
-20		29.16	0.016		
-30		34.81	0.019		
25	Maximum Voltage	17.49	0.009		
25	BEP	21.51	0.011		



UMTS Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	36.00	0.043	2.5ppm	PASS
40		26.65	0.032		
30		30.27	0.036		
20		31.55	0.038		
10		26.97	0.032		
0		24.06	0.029		
-10		20.82	0.025		
-20		32.77	0.039		
-30		20.28	0.024		
25	Maximum Voltage	24.40	0.029		
25	BEP	12.33	0.015		

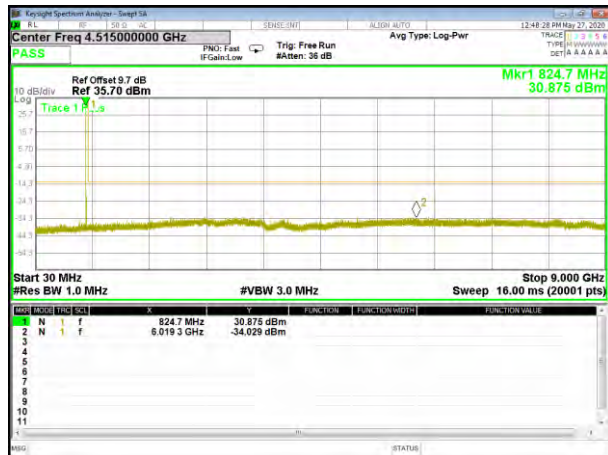
HSDPA Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)		(ppm)		
50	Normal Voltage	34.33	0.041	2.5ppm	PASS
40		22.01	0.026		
30		24.19	0.029		
20		24.87	0.030		
10		21.10	0.025		
0		31.43	0.038		
-10		26.37	0.032		
-20		32.52	0.039		
-30		20.43	0.024		
25	Maximum Voltage	28.13	0.034		
25	BEP	30.60	0.037		

HSUPA Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.78	0.026	2.5ppm	PASS
40		16.46	0.020		
30		29.12	0.035		
20		31.28	0.037		
10		27.11	0.032		
0		24.96	0.030		
-10		13.79	0.016		
-20		24.61	0.029		
-30		34.27	0.041		
25	Maximum Voltage	27.25	0.033		
25	BEP	34.60	0.041		

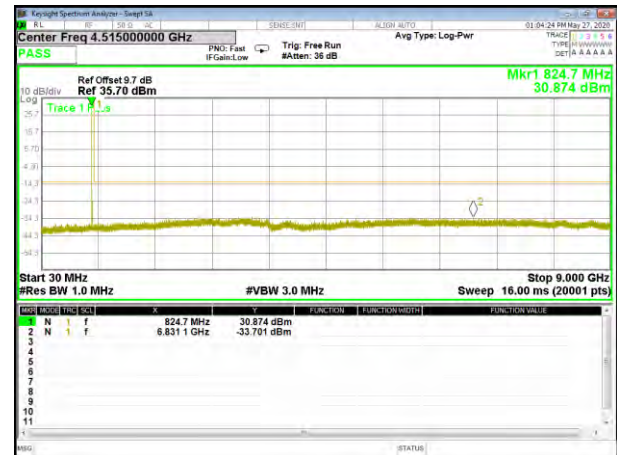
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



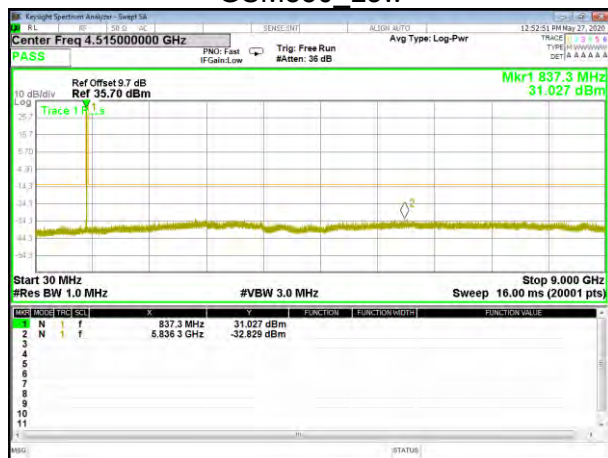
A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS



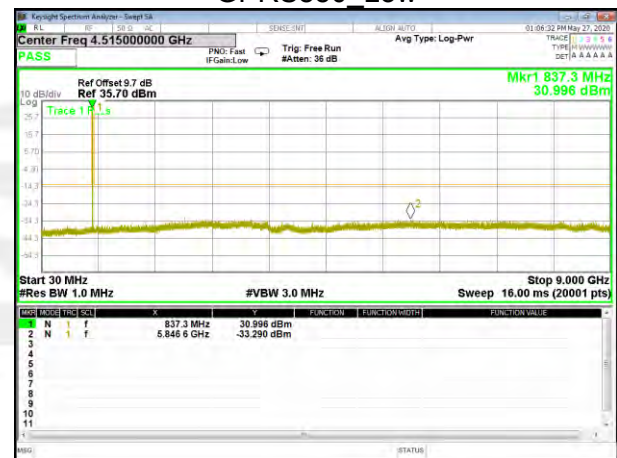
GSM850 Low



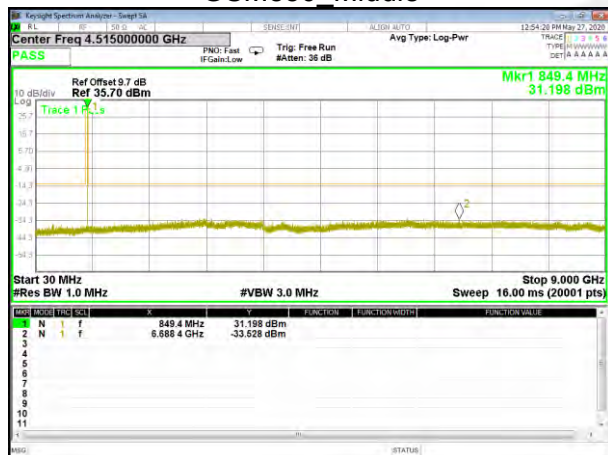
GPRS850 Low



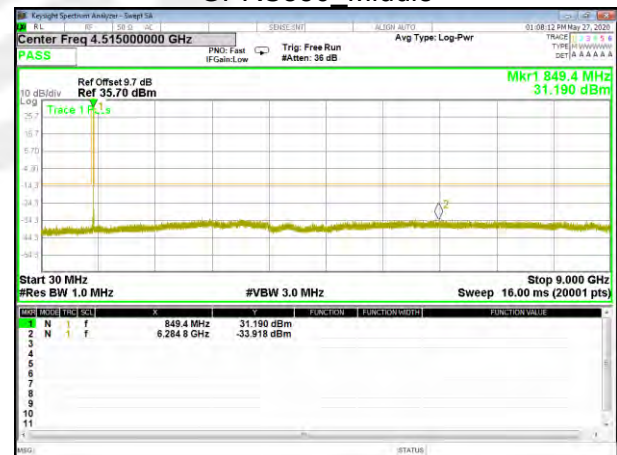
GSM850 Middle



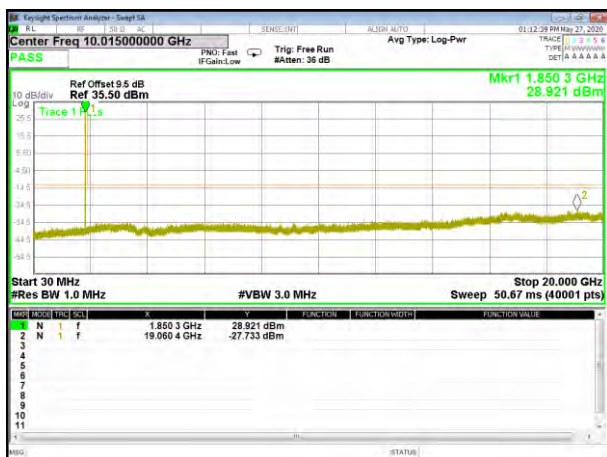
GPRS850 Middle



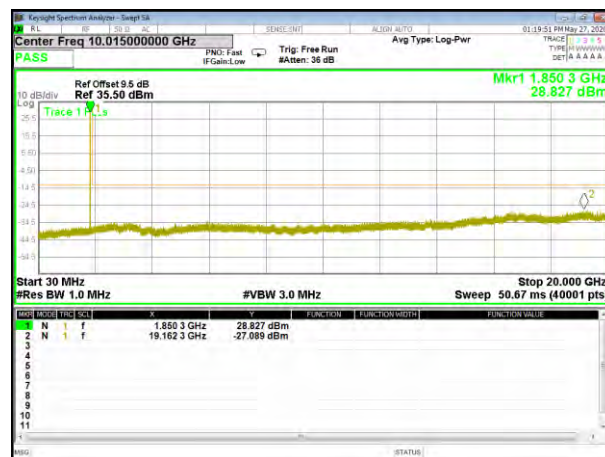
GSM850_High



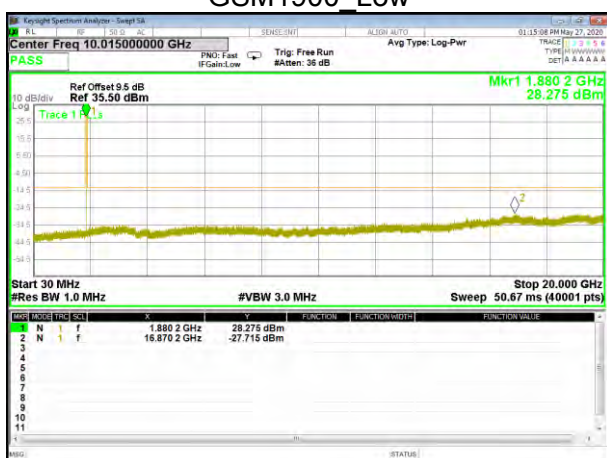
GPRS850_High



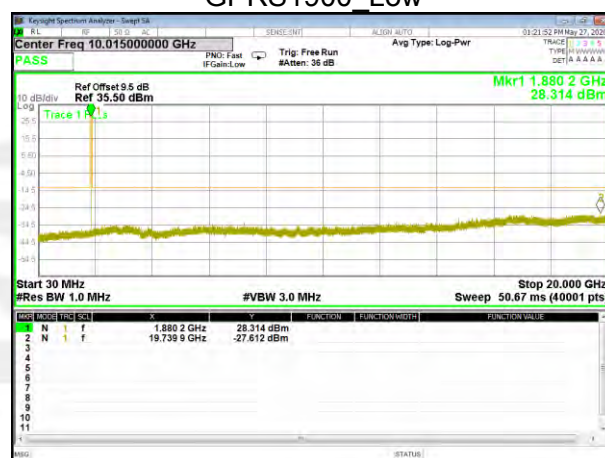
GSM1900_Low



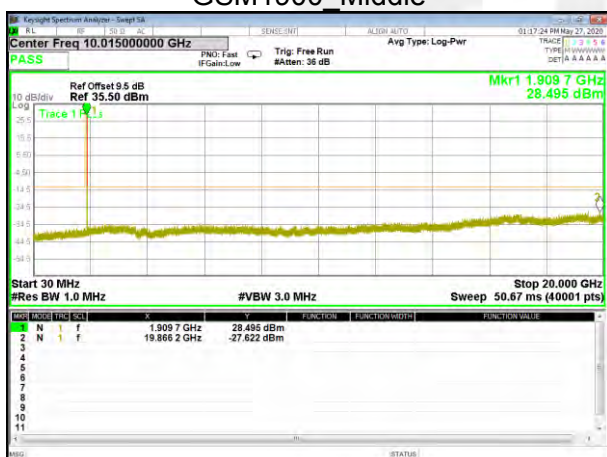
GPRS1900_Low



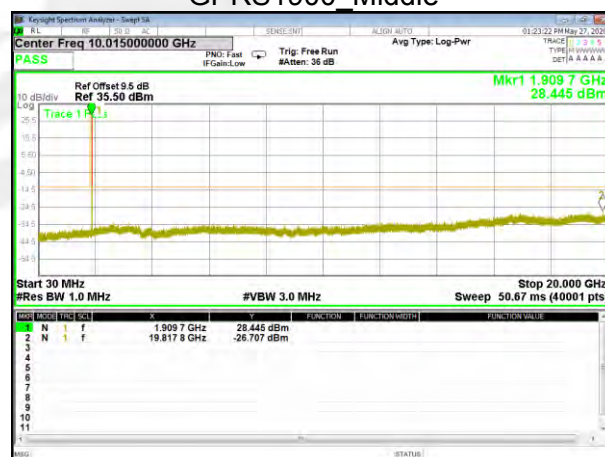
GSM1900_Middle



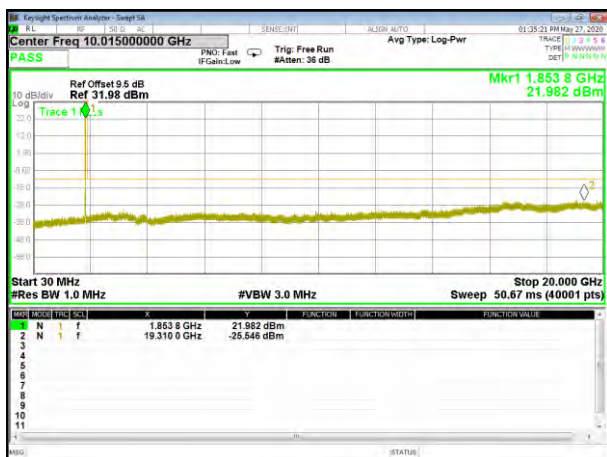
GPRS1900_Middle



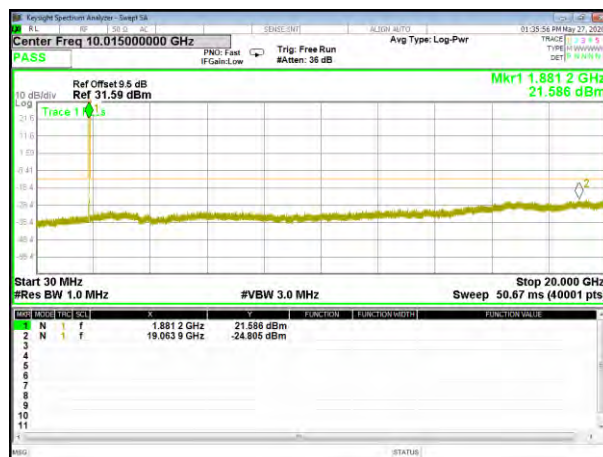
GSM1900_High



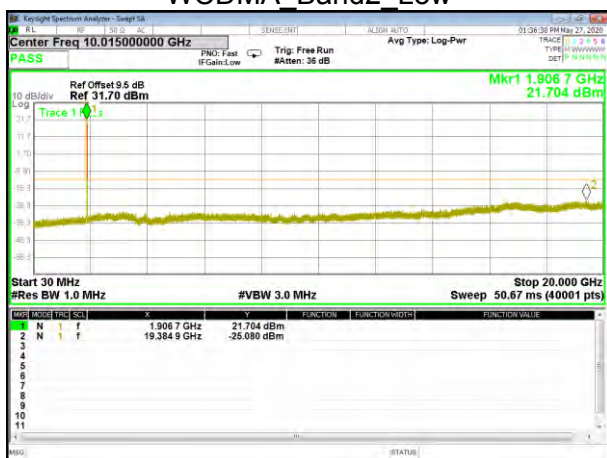
GPRS1900_High



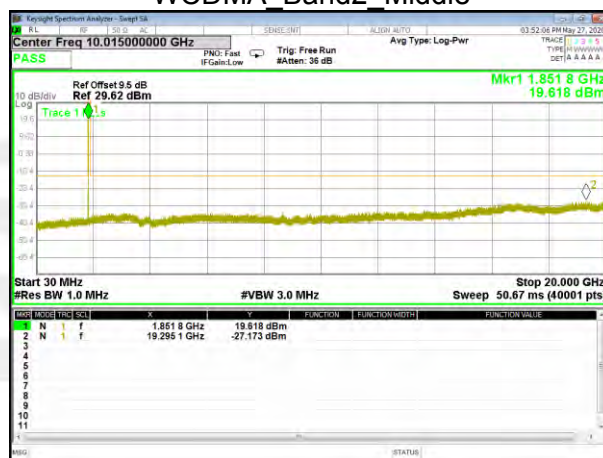
WCDMA Band2 Low



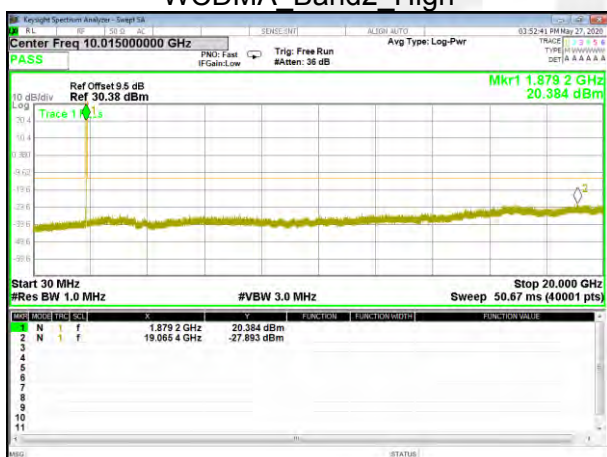
WCDMA Band2 Middle



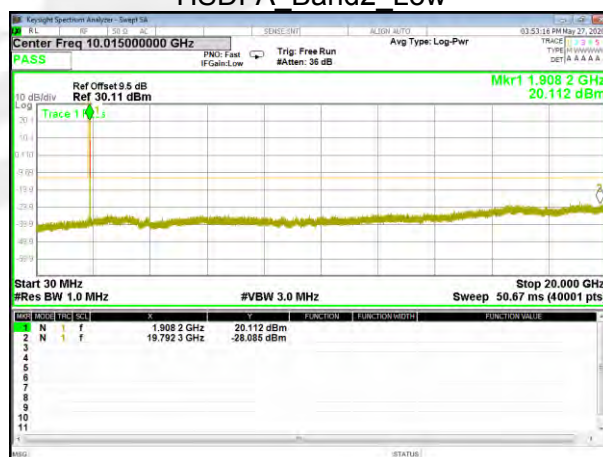
WCDMA Band2 High



HSDPA Band2 Low



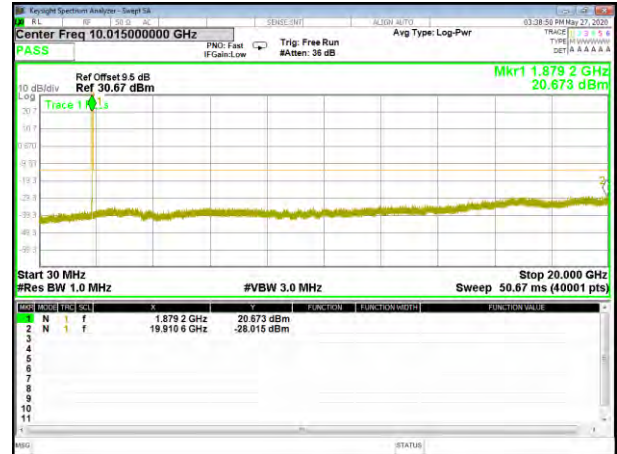
HSDPA_Band2_Middle



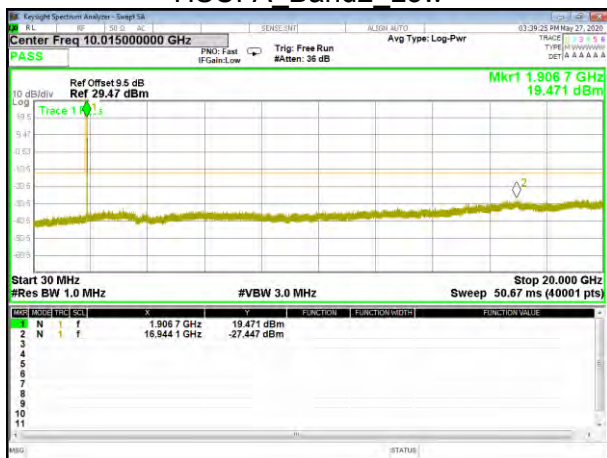
HSDPA_Band2_High



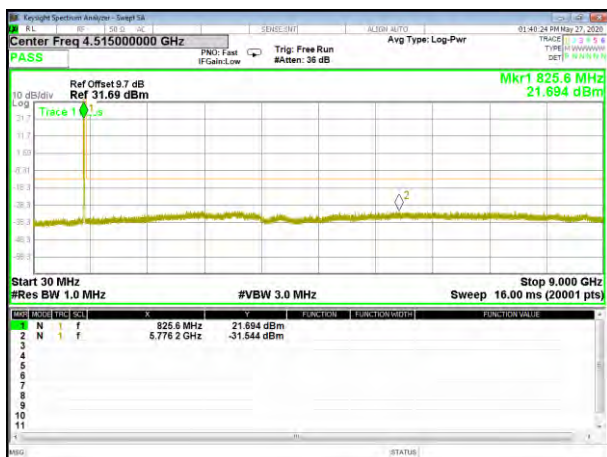
HSUPA_Band2_Low



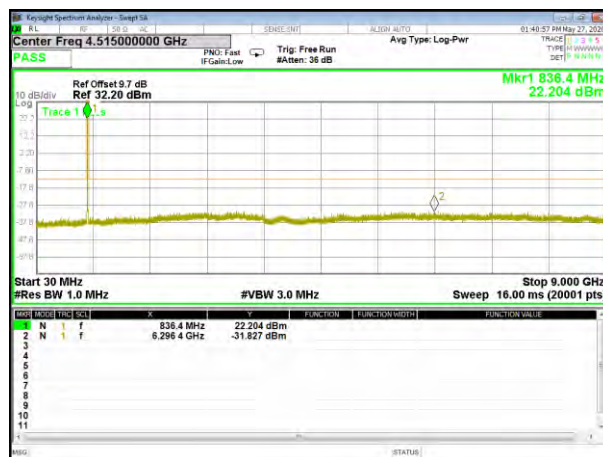
HSUPA_Band2_Middle



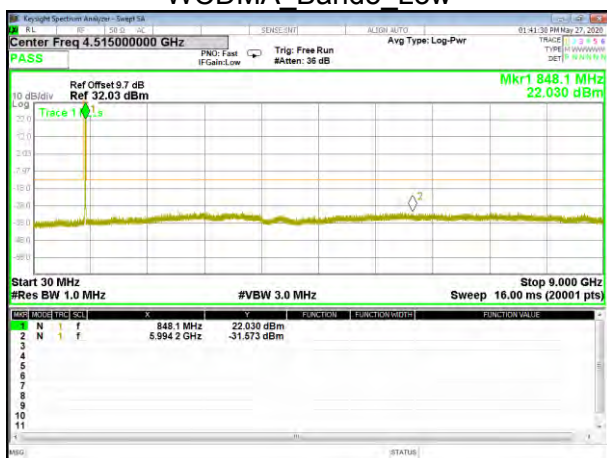
HSUPA_Band2_High



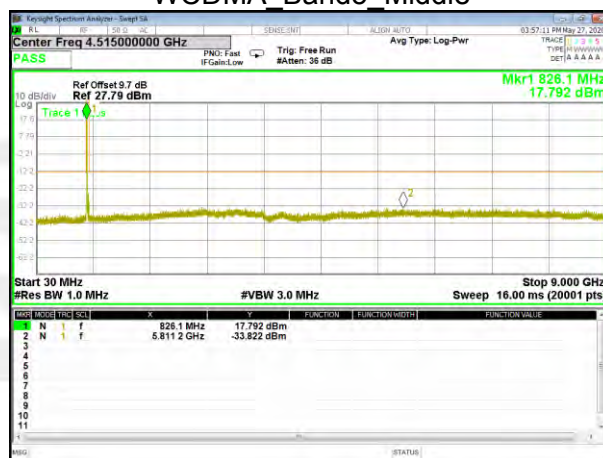
WCDMA Band5 Low



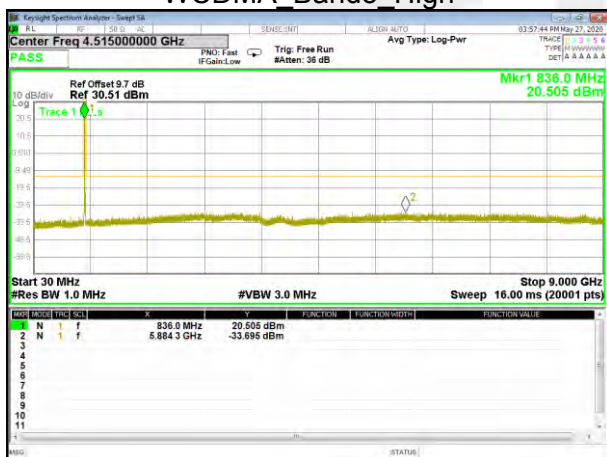
WCDMA Band5 Middle



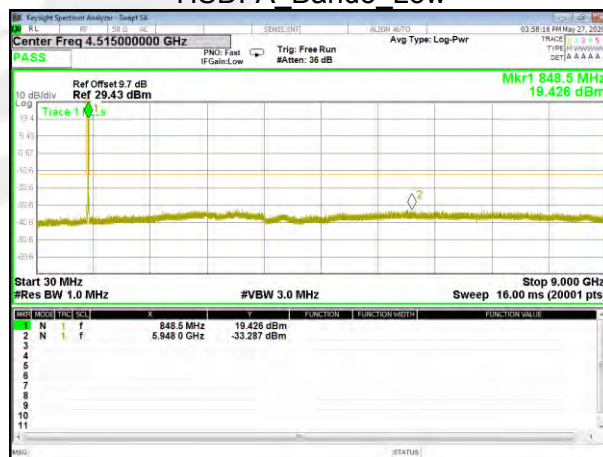
WCDMA Band5 High



HSDPA Band5 Low



HSDPA_Band5_Middle



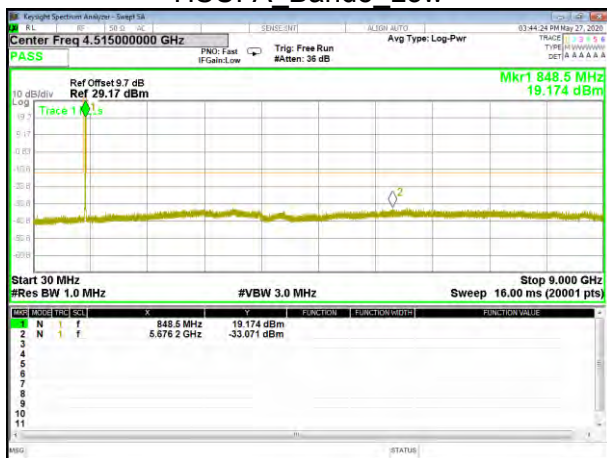
HSDPA_Band5_High



HSUPA_Band5_Low



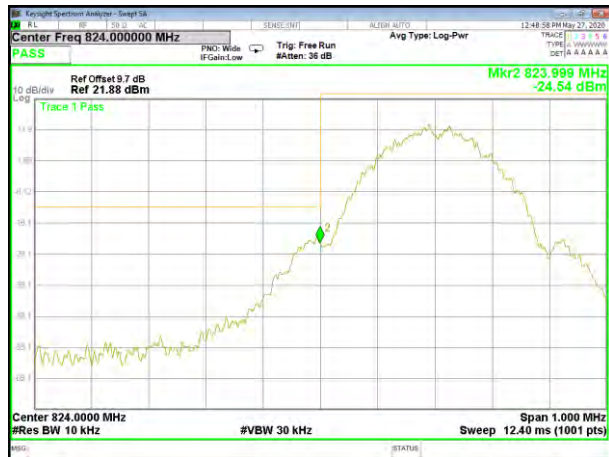
HSUPA_Band5_Middle



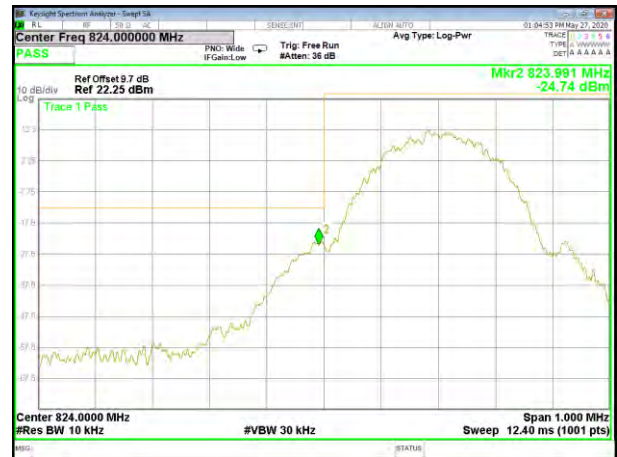
HSUPA_Band5_High



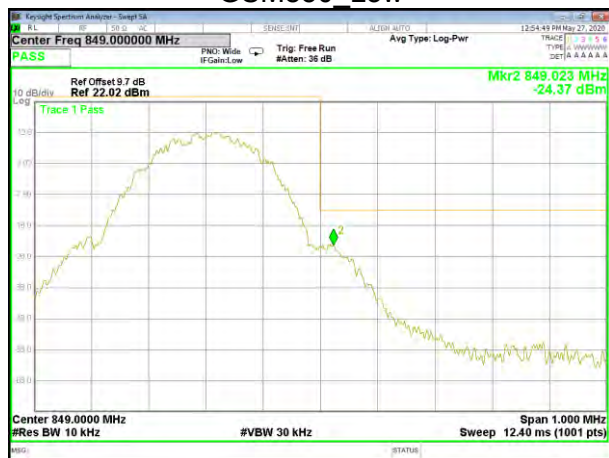
A7. BAND EDGE



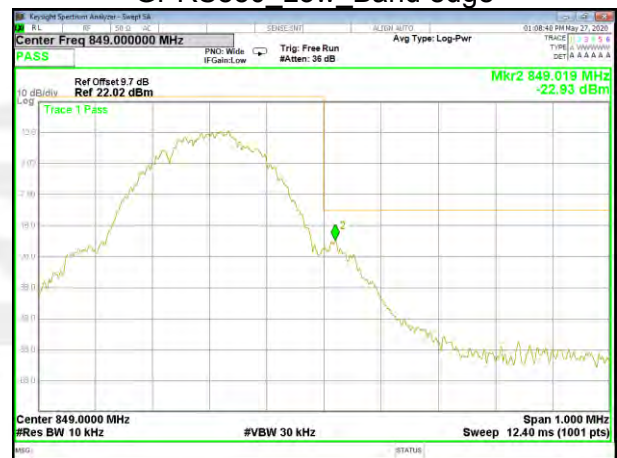
GSM850 Low



GPRS850 Low Band edge



GSM850_High



GPRS850_High_Band edge



GSM1900_Low



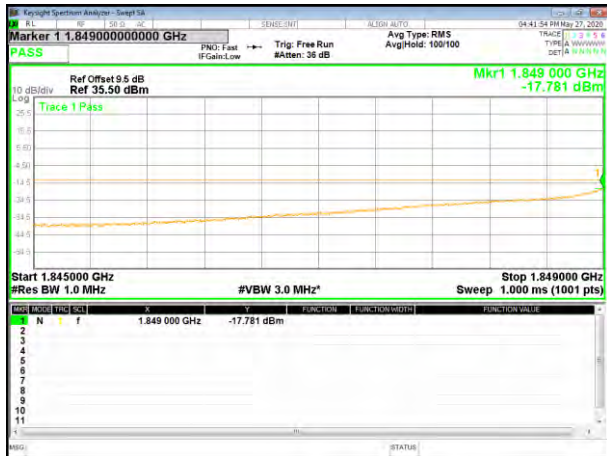
GPRS1900_Low



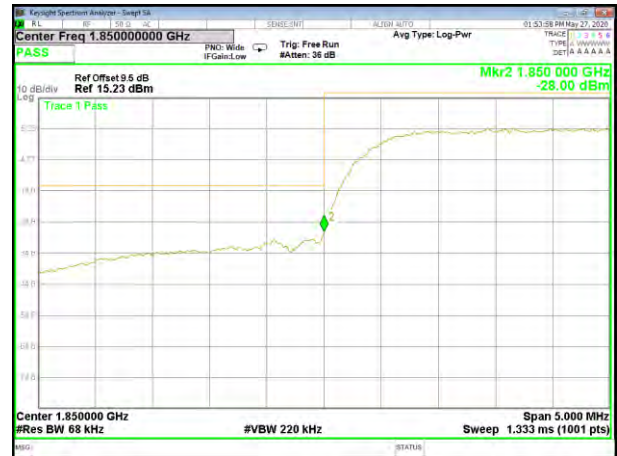
GSM1900_High



GPRS1900_High



WCDMA_Band2_Low



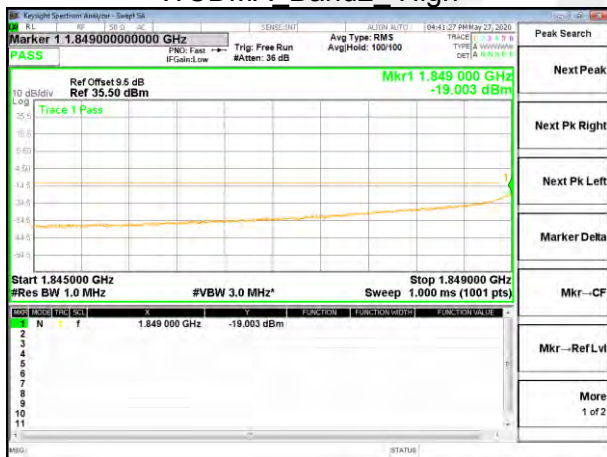
WCDMA_Band2_Low



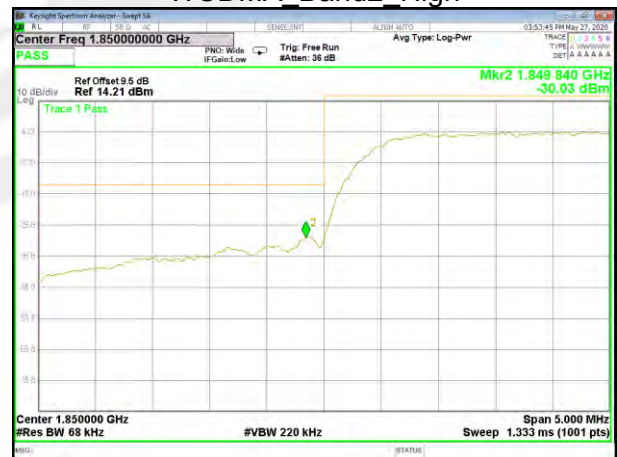
WCDMA_Band2_High



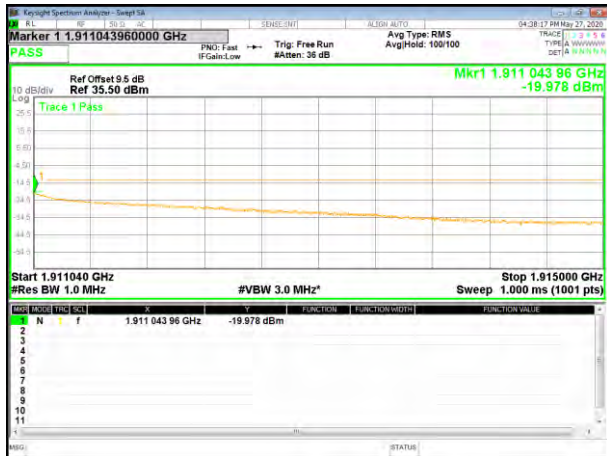
WCDMA_Band2_High



HSDPA_Band2_Low



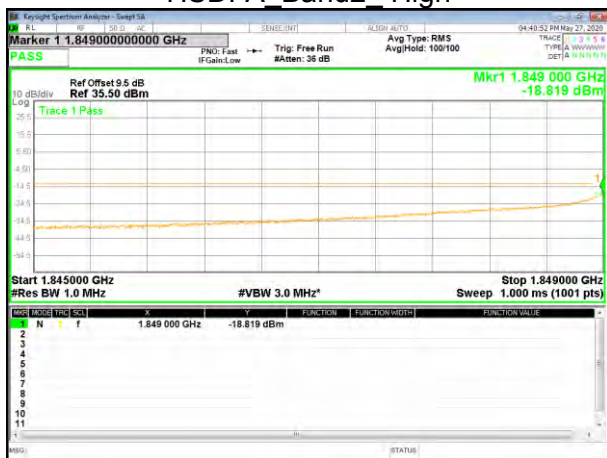
HSDPA_Band2_Low



HSDPA_Band2_High



HSDPA_Band2_High



HSDPA_Band2_Low



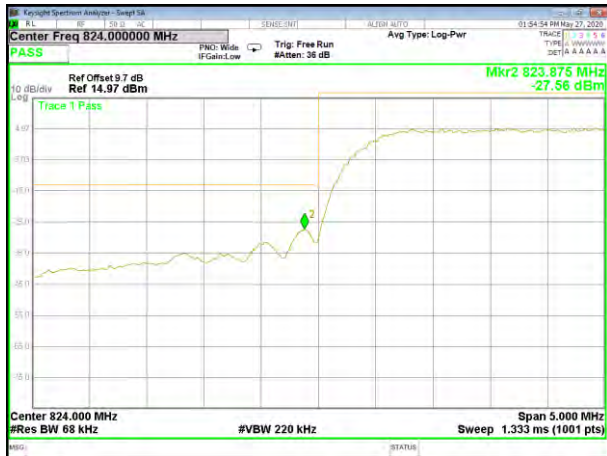
HSDPA_Band2_Low



HSDPA_Band2_High



HSDPA_Band2_High



WCDMA Band5 Low



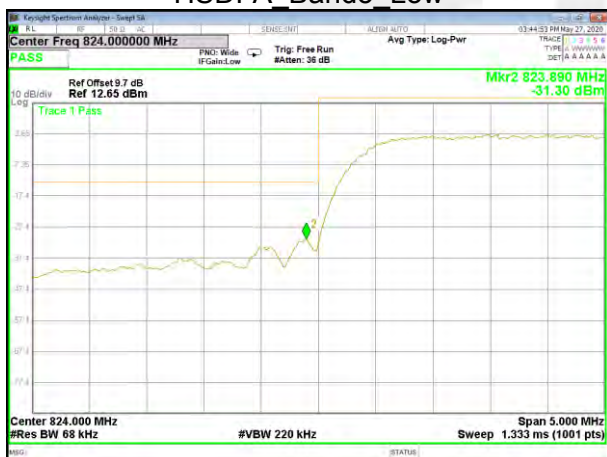
WCDMA Band5 High



HSDPA Band5 Low



HSDPA Band5 High



HSUPA_Band5_Low



HSUPA_Band5_High



A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

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.

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 (dBm)	Polarity
1648.34	-41.09	9.40	4.75	-36.44	-13.00	-23.44	H
2472.32	-39.35	10.60	8.39	-37.14	-13.00	-24.14	H
3296.84	-31.60	12.00	11.79	-31.39	-13.00	-18.39	H
1648.50	-43.97	9.40	4.75	-39.32	-13.00	-26.32	V
2472.39	-45.17	10.60	8.39	-42.96	-13.00	-29.96	V
3296.62	-43.87	12.00	11.79	-43.66	-13.00	-30.66	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.80	-40.33	9.50	4.76	-35.59	-13.00	-22.59	H
2509.77	-40.55	10.70	8.40	-38.25	-13.00	-25.25	H
3346.28	-31.49	12.20	11.80	-31.09	-13.00	-18.09	H
1672.80	-43.82	9.40	4.75	-39.17	-13.00	-26.17	V
2509.79	-44.41	10.60	8.39	-42.20	-13.00	-29.20	V
3346.36	-42.95	12.20	11.82	-42.57	-13.00	-29.57	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1697.19	-40.85	9.60	4.77	-36.02	-13.00	-23.02	H
2546.45	-40.34	10.80	8.50	-38.04	-13.00	-25.04	H
3395.08	-30.89	12.50	11.90	-30.29	-13.00	-17.29	H
1697.65	-44.43	9.60	4.77	-39.60	-13.00	-26.60	V
2546.30	-44.15	10.80	8.50	-41.85	-13.00	-28.85	V
3394.97	-43.48	12.50	11.90	-42.88	-13.00	-29.88	V



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 (dBm)	Polarity
1648.19	-41.59	9.40	4.75	-36.94	-13.00	-23.94	H
2472.35	-39.54	10.60	8.39	-37.33	-13.00	-24.33	H
3296.87	-31.18	12.00	11.79	-30.97	-13.00	-17.97	H
1648.49	-44.51	9.40	4.75	-39.86	-13.00	-26.86	V
2472.56	-44.62	10.60	8.39	-42.41	-13.00	-29.41	V
3296.63	-42.61	12.00	11.79	-42.40	-13.00	-29.40	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.14	-41.16	9.50	4.76	-36.42	-13.00	-23.42	H
2509.70	-39.94	10.70	8.40	-37.64	-13.00	-24.64	H
3346.37	-31.31	12.20	11.80	-30.91	-13.00	-17.91	H
1672.92	-43.43	9.40	4.75	-38.78	-13.00	-25.78	V
2509.90	-45.42	10.60	8.39	-43.21	-13.00	-30.21	V
3346.07	-43.40	12.20	11.82	-43.02	-13.00	-30.02	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1697.38	-41.15	9.60	4.77	-36.32	-13.00	-23.32	H
2546.44	-39.83	10.80	8.50	-37.53	-13.00	-24.53	H
3394.86	-31.88	12.50	11.90	-31.28	-13.00	-18.28	H
1697.56	-44.46	9.60	4.77	-39.63	-13.00	-26.63	V
2546.18	-45.37	10.80	8.50	-43.07	-13.00	-30.07	V
3395.27	-42.71	12.50	11.90	-42.11	-13.00	-29.11	V



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 (dBm)	Polarity
3700.21	-34.49	12.60	12.93	-34.82	-13.00	-21.82	H
5550.53	-34.71	13.10	17.11	-38.72	-13.00	-25.72	H
7400.50	-32.62	11.50	22.20	-43.32	-13.00	-30.32	H
3700.13	-35.01	12.60	12.93	-35.34	-13.00	-22.34	V
5550.33	-34.71	13.10	17.11	-38.72	-13.00	-25.72	V
7400.82	-32.93	11.50	22.20	-43.63	-13.00	-30.63	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.20	-33.62	12.60	12.93	-33.95	-13.00	-20.95	H
5639.94	-34.44	13.10	17.11	-38.45	-13.00	-25.45	H
7520.01	-33.64	11.50	22.20	-44.34	-13.00	-31.34	H
3760.05	-34.79	12.60	12.93	-35.12	-13.00	-22.12	V
5640.31	-34.11	13.10	17.11	-38.12	-13.00	-25.12	V
7520.13	-32.96	11.50	22.20	-43.66	-13.00	-30.66	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3819.70	-34.08	12.60	12.93	-34.41	-13.00	-21.41	H
5729.25	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7639.03	-33.07	11.50	22.20	-43.77	-13.00	-30.77	H
3819.31	-35.50	12.60	12.93	-35.83	-13.00	-22.83	V
5729.43	-34.29	13.10	17.11	-38.30	-13.00	-25.30	V
7638.94	-32.83	11.50	22.20	-43.53	-13.00	-30.53	V



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 (dBm)	Polarity
3700.08	-34.42	12.60	12.93	-34.75	-13.00	-21.75	H
5550.57	-35.03	13.10	17.11	-39.04	-13.00	-26.04	H
7400.69	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3700.18	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5550.58	-34.12	13.10	17.11	-38.13	-13.00	-25.13	V
7400.72	-31.88	11.50	22.20	-42.58	-13.00	-29.58	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.24	-34.93	12.60	12.93	-35.26	-13.00	-22.26	H
5639.97	-34.06	13.10	17.11	-38.07	-13.00	-25.07	H
7520.12	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3760.15	-34.57	12.60	12.93	-34.90	-13.00	-21.90	V
5639.94	-34.76	13.10	17.11	-38.77	-13.00	-25.77	V
7520.27	-32.43	11.50	22.20	-43.13	-13.00	-30.13	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3819.71	-34.52	12.60	12.93	-34.85	-13.00	-21.85	H
5729.34	-35.11	13.10	17.11	-39.12	-13.00	-26.12	H
7639.18	-33.27	11.50	22.20	-43.97	-13.00	-30.97	H
3819.58	-34.74	12.60	12.93	-35.07	-13.00	-22.07	V
5729.52	-34.08	13.10	17.11	-38.09	-13.00	-25.09	V
7638.96	-32.25	11.50	22.20	-42.95	-13.00	-29.95	V



WCDMA Band V: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.02	-40.93	9.40	4.75	-36.28	-13.00	-23.28	H
2479.68	-39.22	10.60	8.39	-37.01	-13.00	-24.01	H
3305.55	-31.03	12.00	11.79	-30.82	-13.00	-17.82	H
1652.47	-43.22	9.40	4.75	-38.57	-13.00	-25.57	V
2479.39	-44.73	10.60	8.39	-42.52	-13.00	-29.52	V
3305.48	-43.17	12.00	11.79	-42.96	-13.00	-29.96	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.89	-40.60	9.40	4.75	-35.95	-13.00	-22.95	H
2509.63	-39.95	10.60	8.39	-37.74	-13.00	-24.74	H
3346.33	-31.35	12.00	11.79	-31.14	-13.00	-18.14	H
1673.13	-43.68	9.40	4.75	-39.03	-13.00	-26.03	V
2509.63	-45.33	10.60	8.39	-43.12	-13.00	-30.12	V
3345.99	-42.54	12.00	11.79	-42.33	-13.00	-29.33	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.41	-41.06	9.40	4.75	-36.41	-13.00	-23.41	H
2539.37	-40.10	10.60	8.39	-37.89	-13.00	-24.89	H
3386.10	-32.21	12.00	11.79	-32.00	-13.00	-19.00	H
1693.39	-44.27	9.40	4.75	-39.62	-13.00	-26.62	V
2539.54	-45.16	10.60	8.39	-42.95	-13.00	-29.95	V
3385.84	-42.85	12.00	11.79	-42.64	-13.00	-29.64	V



HSUPA Band V: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.13	-40.19	9.40	4.75	-35.54	-13.00	-22.54	H
2479.65	-39.81	10.60	8.39	-37.60	-13.00	-24.60	H
3305.90	-31.14	12.00	11.79	-30.93	-13.00	-17.93	H
1652.50	-43.78	9.40	4.75	-39.13	-13.00	-26.13	V
2479.38	-45.29	10.60	8.39	-43.08	-13.00	-30.08	V
3305.74	-43.79	12.00	11.79	-43.58	-13.00	-30.58	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.97	-40.31	9.40	4.75	-35.66	-13.00	-22.66	H
2509.72	-39.62	10.60	8.39	-37.41	-13.00	-24.41	H
3346.26	-31.91	12.00	11.79	-31.70	-13.00	-18.70	H
1672.88	-43.21	9.40	4.75	-38.56	-13.00	-25.56	V
2509.48	-44.69	10.60	8.39	-42.48	-13.00	-29.48	V
3346.43	-43.50	12.00	11.79	-43.29	-13.00	-30.29	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.54	-40.82	9.40	4.75	-36.17	-13.00	-23.17	H
2539.07	-39.32	10.60	8.39	-37.11	-13.00	-24.11	H
3386.06	-31.81	12.00	11.79	-31.60	-13.00	-18.60	H
1693.20	-43.32	9.40	4.75	-38.67	-13.00	-25.67	V
2539.23	-44.71	10.60	8.39	-42.50	-13.00	-29.50	V
3386.33	-43.80	12.00	11.79	-43.59	-13.00	-30.59	V



HSDPA Band V: (30-9000)MHz							
The worst testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.19	-41.08	9.40	4.75	-36.43	-13.00	-23.43	H
2479.34	-39.47	10.60	8.39	-37.26	-13.00	-24.26	H
3305.44	-32.27	12.00	11.79	-32.06	-13.00	-19.06	H
1652.13	-43.52	9.40	4.75	-38.87	-13.00	-25.87	V
2479.22	-44.89	10.60	8.39	-42.68	-13.00	-29.68	V
3305.49	-43.27	12.00	11.79	-43.06	-13.00	-30.06	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.88	-40.19	9.40	4.75	-35.54	-13.00	-22.54	H
2509.80	-39.65	10.60	8.39	-37.44	-13.00	-24.44	H
3345.97	-31.79	12.00	11.79	-31.58	-13.00	-18.58	H
1673.03	-44.64	9.40	4.75	-39.99	-13.00	-26.99	V
2509.88	-45.36	10.60	8.39	-43.15	-13.00	-30.15	V
3346.40	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.59	-40.38	9.40	4.75	-35.73	-13.00	-22.73	H
2539.07	-39.69	10.60	8.39	-37.48	-13.00	-24.48	H
3386.13	-31.21	12.00	11.79	-31.00	-13.00	-18.00	H
1693.60	-44.35	9.40	4.75	-39.70	-13.00	-26.70	V
2539.08	-45.00	10.60	8.39	-42.79	-13.00	-29.79	V
3385.98	-42.57	12.00	11.79	-42.36	-13.00	-29.36	V



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 (dBm)	Polarity
3704.17	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5557.49	-34.42	13.10	17.11	-38.43	-13.00	-25.43	H
7409.81	-32.35	11.50	22.20	-43.05	-13.00	-30.05	H
3704.33	-34.97	12.60	12.93	-35.30	-13.00	-22.30	V
5557.58	-34.84	13.10	17.11	-38.85	-13.00	-25.85	V
7409.49	-33.01	11.50	22.20	-43.71	-13.00	-30.71	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.80	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5639.99	-34.63	13.10	17.11	-38.64	-13.00	-25.64	H
7520.26	-32.78	11.50	22.20	-43.48	-13.00	-30.48	H
3759.85	-35.92	12.60	12.93	-36.25	-13.00	-23.25	V
5639.85	-34.73	13.10	17.11	-38.74	-13.00	-25.74	V
7519.96	-32.87	11.50	22.20	-43.57	-13.00	-30.57	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.73	-33.78	12.60	12.93	-34.11	-13.00	-21.11	H
5722.47	-34.09	13.10	17.11	-38.10	-13.00	-25.10	H
7629.86	-33.26	11.50	22.20	-43.96	-13.00	-30.96	H
3815.58	-35.68	12.60	12.93	-36.01	-13.00	-23.01	V
5722.30	-34.41	13.10	17.11	-38.42	-13.00	-25.42	V
7630.09	-32.96	11.50	22.20	-43.66	-13.00	-30.66	V



HSUPA 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 (dBm)	Polarity
3704.33	-33.91	12.60	12.93	-34.24	-13.00	-21.24	H
5557.29	-35.19	13.10	17.11	-39.20	-13.00	-26.20	H
7409.55	-32.42	11.50	22.20	-43.12	-13.00	-30.12	H
3704.05	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5557.28	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7409.68	-32.30	11.50	22.20	-43.00	-13.00	-30.00	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.14	-34.14	12.60	12.93	-34.47	-13.00	-21.47	H
5639.96	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7520.11	-33.03	11.50	22.20	-43.73	-13.00	-30.73	H
3759.96	-35.49	12.60	12.93	-35.82	-13.00	-22.82	V
5640.06	-34.02	13.10	17.11	-38.03	-13.00	-25.03	V
7520.30	-32.96	11.50	22.20	-43.66	-13.00	-30.66	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.57	-34.62	12.60	12.93	-34.95	-13.00	-21.95	H
5722.25	-34.16	13.10	17.11	-38.17	-13.00	-25.17	H
7629.97	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3815.62	-35.31	12.60	12.93	-35.64	-13.00	-22.64	V
5722.13	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7630.06	-32.82	11.50	22.20	-43.52	-13.00	-30.52	V



HSDPA 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 (dBm)	Polarity
3704.09	-34.65	12.60	12.93	-34.98	-13.00	-21.98	H
5557.47	-34.90	13.10	17.11	-38.91	-13.00	-25.91	H
7409.94	-32.22	11.50	22.20	-42.92	-13.00	-29.92	H
3704.21	-34.79	12.60	12.93	-35.12	-13.00	-22.12	V
5557.52	-34.35	13.10	17.11	-38.36	-13.00	-25.36	V
7409.63	-32.40	11.50	22.20	-43.10	-13.00	-30.10	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.03	-33.64	12.60	12.93	-33.97	-13.00	-20.97	H
5640.12	-34.91	13.10	17.11	-38.92	-13.00	-25.92	H
7519.81	-32.43	11.50	22.20	-43.13	-13.00	-30.13	H
3760.19	-35.85	12.60	12.93	-36.18	-13.00	-23.18	V
5640.23	-34.23	13.10	17.11	-38.24	-13.00	-25.24	V
7520.05	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.64	-34.26	12.60	12.93	-34.59	-13.00	-21.59	H
5722.35	-34.89	13.10	17.11	-38.90	-13.00	-25.90	H
7630.20	-32.26	11.50	22.20	-42.96	-13.00	-29.96	H
3815.49	-35.90	12.60	12.93	-36.23	-13.00	-23.23	V
5722.47	-33.99	13.10	17.11	-38.00	-13.00	-25.00	V
7630.30	-32.07	11.50	22.20	-42.77	-13.00	-29.77	V



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

