



RADIO TEST REPORT

Report No.: STS2109215W12

Issued for

Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508 Chundong Rd, Minhang district
Shanghai, China 201108

Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	TickTock
Series Model:	N/A
FCC ID:	2AK6CTICKTOCK
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 308, Building C, 508 Chundong Rd, Minhang district
Shanghai, China 201108
Manufacturer's Name: OBLUE Communication Technology Co.,Ltd.
Address: 7th floor, building B, dayou industrial and trade industrial park,
heping yonghe road, fuyong street, baoan district, shenzhen,
China.

Product Description

Product Name: Smart phone
Brand Name: Unihertz
Model Name: TickTock
Series Model: Unihertz_TickTock_EEA_2021015
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, 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.....: 30 Sept. 2021
Date (s) of performance of tests.: 30 Sept. 2021 ~ 27 Nov. 2021
Date of Issue: 27 Nov. 2021
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	27 Nov. 2021	STS2109215W12	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 Output Power	Reporting Only	PASS	
22.913d 24.232d	Peak-to-Average Ratio	< 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. : 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 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$



2 PRODUCT INFORMATION

Product Name	Smart phone
Trade Name	Unihertz
Model Name	TickTock
Series Model	N/A
Model Difference	N/A
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&EVDO: 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&EVDO: BC0: 869.70 MHz~ 894.30 MHz BC1: 1931.25 MHz~ 1988.75 MHz
Max RF Output Power:	GSM850:31.58dBm, PCS1900:29.27dBm GPRS850(1-Slot):31.38dBm, GPRS1900(1-Slot):28.98dBm GPRS850(2-Slot):30.95dBm, GPRS1900(2-Slot):28.49dBm GPRS850(3-Slot):30.48dBm, GPRS1900(3-Slot):28.24dBm GPRS850(4-Slot):30.02dBm, GPRS1900(4-Slot):27.77dBm EDGE 850(1-Slot):27.71dBm, EDGE 1900(1-Slot):27.60dBm EDGE 850(2-Slot):26.93dBm, EDGE 1900(2-Slot):26.85dBm EDGE 850(3-Slot):26.18dBm, EDGE 1900(3-Slot):26.12dBm EDGE 850(4-Slot):25.43dBm, EDGE 1900(4-Slot):25.35dBm WCDMA Band V:23.23dBm, WCDMA Band II:22.23dBm WCDMA Band IV:23.05dBm CDMA BC0:24.62dBm, CDMA BC1:24.16dBm
Type of Emission:	GSM(850): 246KGXW; PCS(1900): 245KGXW GPRS(850): 246KGXW; GPRS(1900): 245KGXW EDGE(850): 252KG7W; EDGE(1900): 253KG7W WCDMA850: 4M15F9W WCDMA1900: 4M15F9W WCDMA1700: 4M15F9W



	CDMA BC0: 1M29F9W; CDMA BC1:1M31F9W EVDO BC0:1M29F9W; EVDO BC1:1M31F9W
Modulation Characteristics:	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK CDMA&EVDO: QPSK/8PSK
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:	GSM 850: -2.1dBi, PCS 1900: --2.8dBi WCDMA 850: -2.1dBi, WCDMA1900: -2.8dBi, WCDMA1700: -3.3dBi BC0: -2.1dBi, BC1: -2.8dBi
Battery parameter:	Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 6000mAh
Adapter:	Model: UF82PD3002 Brand: Unihertz Input: AC 100-240V 50/60Hz 0.8A Output: DC 5V 3A 15.0W or 9V 3.0A 27.0W or 10.0V 3.0A 30.0W Model: HJ-PD33W-US Brand: Unihertz Input: AC 100-240V 50/60Hz 0.8A Output: DC 5V 3A or 9V 3.0A or 12.0V 2.75A 33.0W MAX
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.55V~ DC 4.4V(Normal: DC 3.85V)
Extreme Temp. Tolerance:	-15°C to +55°C
Hardware version number:	G85_V1.1
Software version number:	Unihertz_TickTock_EEA_2021015
** Note: The High Voltage 3.55V and Low Voltage 4.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.	



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:

BAND	TEST MODES	
	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



RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
GSM	850	GSM	GMSK	4(power control level 5)	GSM850: -2.1 GSM1900: -2.8	PIFA	2 SIM 1 is used to tested.
		GPRS (Class12)	GMSK	4			
		EDGE(Class12)	GMSK, 8PSK	E2			
	1900	GSM	GMSK	1(power control level 0)			
		GPRS (Class12)	GMSK	1			
		EDGE(Class12)	GMSK, 8PSK	E2			
RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
WCDMA	2/4/5	WCDMA	QPSK	3	B2: -3.3 B4: -2.1 B5: -2.8	PIFA	2 SIM 1 is used to tested.
		HSDPA	QPSK, 16QAM				
		HSUPA	BPSK				
RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
CDMA	BC0/BC1	CDMA	QPSK	3	BC0: -2.1 BC1: -2.8	PIFA	2 SIM 1 is used to tested.
		EVDO	8PSK				



4 MEASUREMENT INSTRUMENTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Signal Generator	Agilent	83752A	3610A02740	2021.09.30	2022.09.29
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2021.09.28	2022.09.27
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	2021.10.09	2022.10.08
Test SW	BALUN	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	111058	2021.09.29	2022.09.28
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Signal Analyzer	Agilent	N9020A	MY52440124	2021.03.04	2022.03.03
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2021.10.08	2022.10.07
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
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&TRANSMITTER RADIATED POWER

TEST OVERVIEW

CONDUCTED OUTPUT POWER:

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.

TRANSMITTER RADIATED POWER (EIRP/ERP)

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

(1) $ERP \text{ or } EIRP = P_{Meas} + GT$

$$ERP = EIRP - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

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

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a) $ERP = EIRP - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $EIRP = ERP + 2.15$, where ERP and EIRP are expressed in consistent units.

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



TEST RESULT

Note: Test data See Appendix 1.

5.2 PEAK TO AVERAGE RATIO

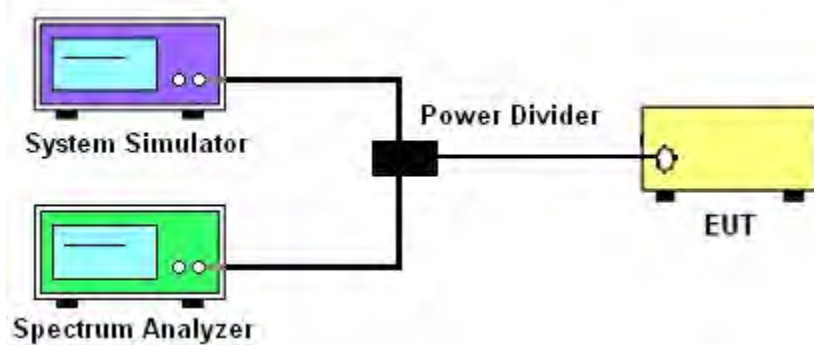
TEST OVERVIEW

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 FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
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



TEST RESULT

Note: Test data See Appendix 2.

5.4 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 $+50^{\circ}\text{C}$ 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

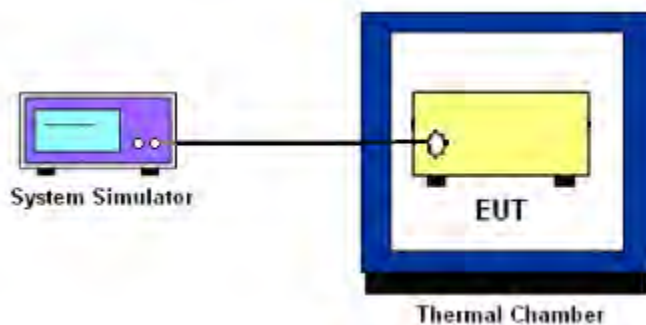
Temperature Variation

1. The testing follows FCC KDB 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



TEST RESULT

Note: Test data See Appendix 5.

5.5 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 5.7.
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.

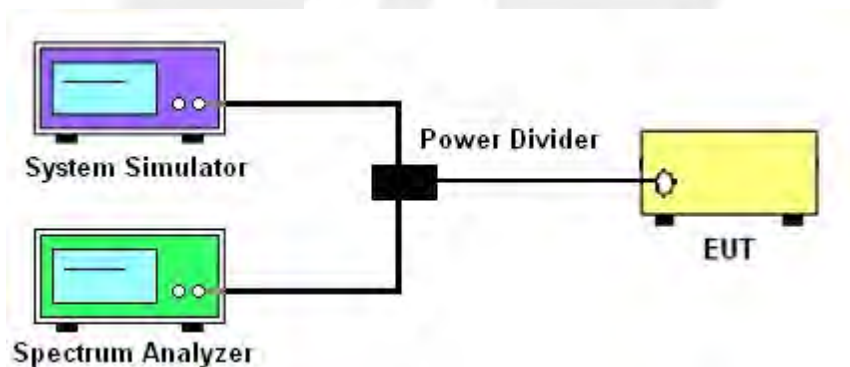
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

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

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

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

TEST SETUP



TEST RESULT

Note: Test data See Appendix 6.

5.6 BAND EDGE

TEST 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.

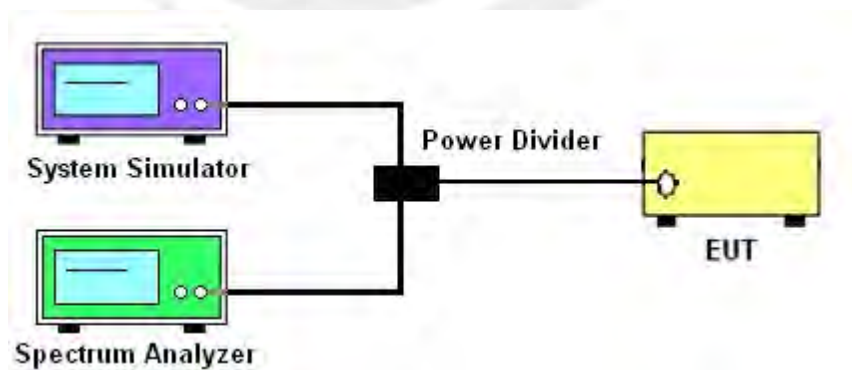
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

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

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

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

TEST SETUP



TEST RESULT

Note: Test data See Appendix 7.



5.7 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.

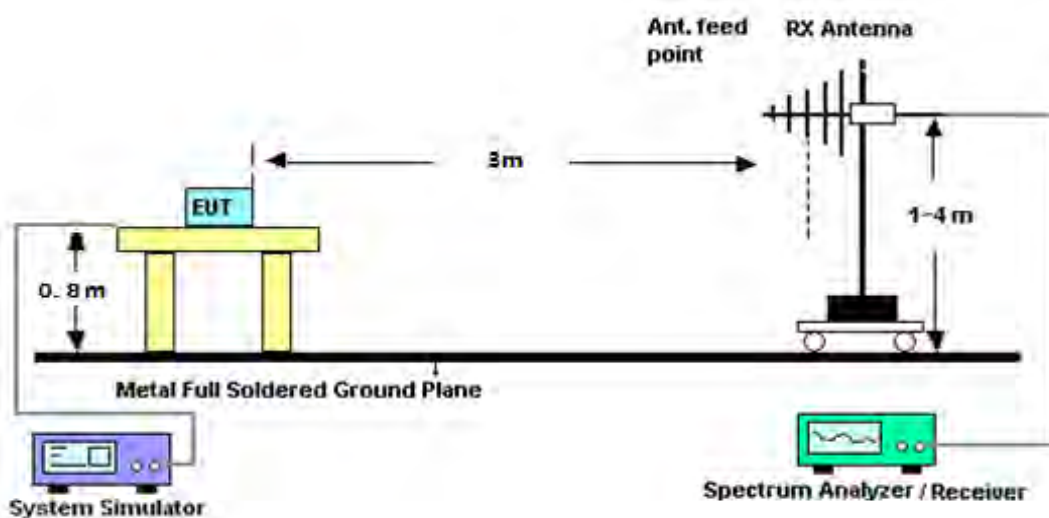
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

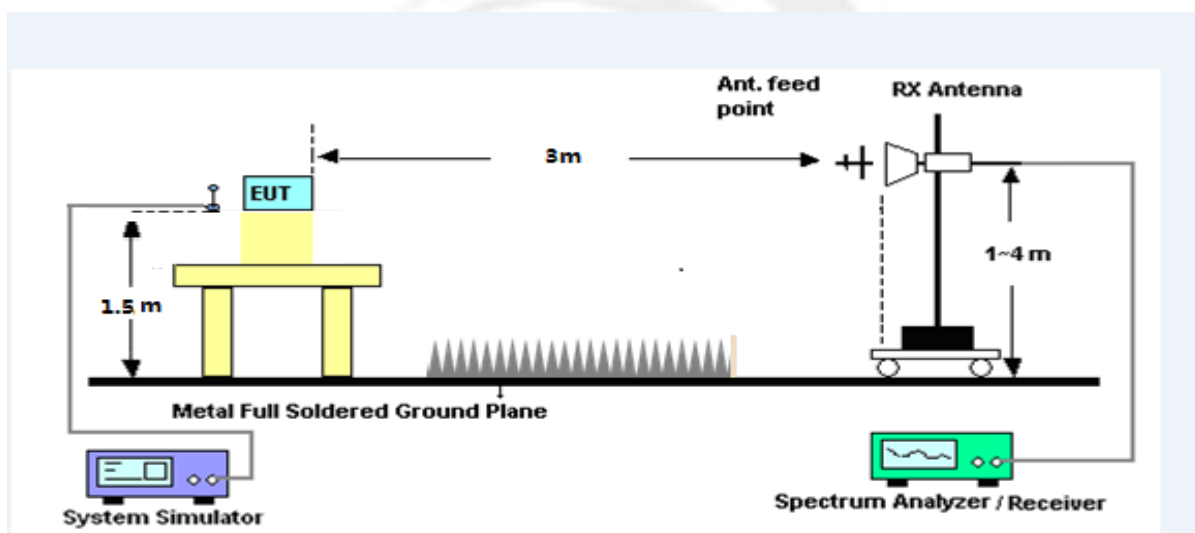
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. 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.
 $P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}$; $\text{Margin} = P_{Mea} - \text{Limit}$.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

Note: Test data See Appendix 8.



APPENDIX A.TESTRESULT

A1. CONDUCTED OUTPUT POWER&TRANSMITTER RADIATED POWER

GSM 850							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit (W)	ERP Limit (dBm)	Conclusion
GSM (GMSK,1-Slot)	824.2	31.26	-2.1	27.01	7.00	38.45	PASS
	836.6	31.58	-2.1	27.33	7.00	38.45	PASS
	848.8	31.48	-2.1	27.23	7.00	38.45	PASS
GPRS (GMSK,1-Slot)	824.2	31.08	-2.1	26.83	7.00	38.45	PASS
	836.6	31.37	-2.1	27.12	7.00	38.45	PASS
	848.8	31.38	-2.1	27.13	7.00	38.45	PASS
GPRS (GMSK,2-Slot)	824.2	30.60	-2.1	26.35	7.00	38.45	PASS
	836.6	30.95	-2.1	26.70	7.00	38.45	PASS
	848.8	30.89	-2.1	26.64	7.00	38.45	PASS
GPRS (GMSK,3-Slot)	824.2	30.11	-2.1	25.86	7.00	38.45	PASS
	836.6	30.48	-2.1	26.23	7.00	38.45	PASS
	848.8	30.43	-2.1	26.18	7.00	38.45	PASS
GPRS (GMSK,4-Slot)	824.2	29.62	-2.1	25.37	7.00	38.45	PASS
	836.6	30.02	-2.1	25.77	7.00	38.45	PASS
	848.8	29.98	-2.1	25.73	7.00	38.45	PASS
EGPRS (8PSK,1-Slot)	824.2	27.47	-2.1	23.22	7.00	38.45	PASS
	836.6	27.71	-2.1	23.46	7.00	38.45	PASS
	848.8	27.68	-2.1	23.43	7.00	38.45	PASS
EGPRS (8PSK,2-Slot)	824.2	26.72	-2.1	22.47	7.00	38.45	PASS
	836.6	26.93	-2.1	22.68	7.00	38.45	PASS
	848.8	26.90	-2.1	22.65	7.00	38.45	PASS
EGPRS (8PSK,3-Slot)	824.2	25.95	-2.1	21.70	7.00	38.45	PASS
	836.6	26.18	-2.1	21.93	7.00	38.45	PASS
	848.8	26.17	-2.1	21.92	7.00	38.45	PASS
EGPRS (8PSK,4-Slot)	824.2	25.15	-2.1	20.90	7.00	38.45	PASS
	836.6	25.43	-2.1	21.18	7.00	38.45	PASS
	848.8	25.41	-2.1	21.16	7.00	38.45	PASS



PCS 1900							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Conclusion
GSM (GMSK,1-Slot)	1850.2	29.27	-2.8	26.47	2.00	33.01	PASS
	1880.0	29.02	-2.8	26.22	2.00	33.01	PASS
	1909.8	28.90	-2.8	26.10	2.00	33.01	PASS
GPRS (GMSK,1-Slot)	1850.2	29.21	-2.8	26.41	2.00	33.01	PASS
	1880.0	28.98	-2.8	26.18	2.00	33.01	PASS
	1909.8	28.87	-2.8	26.07	2.00	33.01	PASS
GPRS (GMSK,2-Slot)	1850.2	28.74	-2.8	25.94	2.00	33.01	PASS
	1880.0	28.49	-2.8	25.69	2.00	33.01	PASS
	1909.8	28.47	-2.8	25.67	2.00	33.01	PASS
GPRS (GMSK,3-Slot)	1850.2	28.24	-2.8	25.44	2.00	33.01	PASS
	1880.0	28.01	-2.8	25.21	2.00	33.01	PASS
	1909.8	27.98	-2.8	25.18	2.00	33.01	PASS
GPRS (GMSK,4-Slot)	1850.2	27.77	-2.8	24.97	2.00	33.01	PASS
	1880.0	27.60	-2.8	24.80	2.00	33.01	PASS
	1909.8	27.55	-2.8	24.75	2.00	33.01	PASS
EGPRS (8PSK,1-Slot)	1850.2	27.47	-2.8	24.67	2.00	33.01	PASS
	1880.0	27.38	-2.8	24.58	2.00	33.01	PASS
	1909.8	27.60	-2.8	24.80	2.00	33.01	PASS
EGPRS (8PSK,2-Slot)	1850.2	26.75	-2.8	23.95	2.00	33.01	PASS
	1880.0	26.66	-2.8	23.86	2.00	33.01	PASS
	1909.8	26.85	-2.8	24.05	2.00	33.01	PASS
EGPRS (8PSK,3-Slot)	1850.2	25.97	-2.8	23.17	2.00	33.01	PASS
	1880.0	25.95	-2.8	23.15	2.00	33.01	PASS
	1909.8	26.12	-2.8	23.32	2.00	33.01	PASS
EGPRS (8PSK,4-Slot)	1850.2	25.25	-2.8	22.45	2.00	33.01	PASS
	1880.0	25.18	-2.8	22.38	2.00	33.01	PASS
	1909.8	25.35	-2.8	22.55	2.00	33.01	PASS



Radiated Power (EIRP) for WCDMA Band 2							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit (dBm)	Conclusion
WCDMA	1852.40	21.75	-2.80	18.95	2.00	33.01	PASS
	1880.00	22.23	-2.80	19.43	2.00	33.01	PASS
	1907.40	21.93	-2.80	19.13	2.00	33.01	PASS
HSDPA Subtest 1	1852.40	21.72	-2.80	18.92	2.00	33.01	PASS
	1880.00	21.80	-2.80	19.00	2.00	33.01	PASS
	1907.40	21.91	-2.80	19.11	2.00	33.01	PASS
HSDPA Subtest 2	1852.40	21.23	-2.80	18.43	2.00	33.01	PASS
	1880.00	21.30	-2.80	18.50	2.00	33.01	PASS
	1907.40	21.43	-2.80	18.63	2.00	33.01	PASS
HSDPA Subtest 3	1852.40	20.83	-2.80	18.03	2.00	33.01	PASS
	1880.00	20.86	-2.80	18.06	2.00	33.01	PASS
	1907.40	21.01	-2.80	18.21	2.00	33.01	PASS
HSDPA Subtest 4	1852.40	20.48	-2.80	17.68	2.00	33.01	PASS
	1880.00	20.37	-2.80	17.57	2.00	33.01	PASS
	1907.40	20.52	-2.80	17.72	2.00	33.01	PASS
HSUPA Subtest 1	1852.40	21.72	-2.80	18.92	2.00	33.01	PASS
	1880.00	21.67	-2.80	18.87	2.00	33.01	PASS
	1907.40	21.85	-2.80	19.05	2.00	33.01	PASS
HSUPA Subtest 2	1852.40	20.88	-2.80	18.08	2.00	33.01	PASS
	1880.00	20.70	-2.80	17.90	2.00	33.01	PASS
	1907.40	20.93	-2.80	18.13	2.00	33.01	PASS
HSUPA Subtest 3	1852.40	20.73	-2.80	17.93	2.00	33.01	PASS
	1880.00	20.30	-2.80	17.50	2.00	33.01	PASS
	1907.40	20.45	-2.80	17.65	2.00	33.01	PASS
HSUPA Subtest 4	1852.40	20.41	-2.80	17.61	2.00	33.01	PASS
	1880.00	19.99	-2.80	17.19	2.00	33.01	PASS
	1907.40	20.03	-2.80	17.23	2.00	33.01	PASS
HSUPA Subtest 5	1852.40	19.00	-2.80	16.20	2.00	33.01	PASS
	1880.00	18.55	-2.80	15.75	2.00	33.01	PASS
	1907.40	18.61	-2.80	15.81	2.00	33.01	PASS



Radiated Power (EIRP) for WCDMA Band 4							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit (dBm)	Conclusion
WCDMA	1712.60	23.05	-3.30	19.75	1.00	30.00	PASS
	1740.00	22.12	-3.30	18.82	1.00	30.00	PASS
	1752.40	22.20	-3.30	18.90	1.00	30.00	PASS
HSDPA Subtest 1	1712.60	22.45	-3.30	19.15	1.00	30.00	PASS
	1740.00	22.08	-3.30	18.78	1.00	30.00	PASS
	1752.40	22.03	-3.30	18.73	1.00	30.00	PASS
HSDPA Subtest 2	1712.60	22.00	-3.30	18.70	1.00	30.00	PASS
	1740.00	21.67	-3.30	18.37	1.00	30.00	PASS
	1752.40	21.53	-3.30	18.23	1.00	30.00	PASS
HSDPA Subtest 3	1712.60	21.51	-3.30	18.21	1.00	30.00	PASS
	1740.00	21.19	-3.30	17.89	1.00	30.00	PASS
	1752.40	21.16	-3.30	17.86	1.00	30.00	PASS
HSDPA Subtest 4	1712.60	21.17	-3.30	17.87	1.00	30.00	PASS
	1740.00	20.87	-3.30	17.57	1.00	30.00	PASS
	1752.40	20.85	-3.30	17.55	1.00	30.00	PASS
HSUPA Subtest 1	1712.60	21.88	-3.30	18.58	1.00	30.00	PASS
	1740.00	22.05	-3.30	18.75	1.00	30.00	PASS
	1752.40	21.99	-3.30	18.69	1.00	30.00	PASS
HSUPA Subtest 2	1712.60	21.08	-3.30	17.78	1.00	30.00	PASS
	1740.00	21.11	-3.30	17.81	1.00	30.00	PASS
	1752.40	21.03	-3.30	17.73	1.00	30.00	PASS
HSUPA Subtest 3	1712.60	20.97	-3.30	17.67	1.00	30.00	PASS
	1740.00	20.71	-3.30	17.41	1.00	30.00	PASS
	1752.40	20.63	-3.30	17.33	1.00	30.00	PASS
HSUPA Subtest 4	1712.60	20.58	-3.30	17.28	1.00	30.00	PASS
	1740.00	20.26	-3.30	16.96	1.00	30.00	PASS
	1752.40	20.26	-3.30	16.96	1.00	30.00	PASS
HSUPA Subtest 5	1712.60	19.15	-3.30	15.85	1.00	30.00	PASS
	1740.00	18.83	-3.30	15.53	1.00	30.00	PASS
	1752.40	18.81	-3.30	15.51	1.00	30.00	PASS



Radiated Power (ERP) for WCDMA Band 5							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit (dBm)	Conclusion
WCDMA	826.40	23.23	-2.10	18.98	7.00	38.45	PASS
	836.60	23.15	-2.10	18.90	7.00	38.45	PASS
	846.40	22.86	-2.10	18.61	7.00	38.45	PASS
HSDPA Subtest 1	826.40	20.90	-2.10	16.65	7.00	38.45	PASS
	836.60	20.85	-2.10	16.60	7.00	38.45	PASS
	846.40	21.18	-2.10	16.93	7.00	38.45	PASS
HSDPA Subtest 2	826.40	20.47	-2.10	16.22	7.00	38.45	PASS
	836.60	20.37	-2.10	16.12	7.00	38.45	PASS
	846.40	20.70	-2.10	16.45	7.00	38.45	PASS
HSDPA Subtest 3	826.40	20.05	-2.10	15.80	7.00	38.45	PASS
	836.60	19.97	-2.10	15.72	7.00	38.45	PASS
	846.40	20.32	-2.10	16.07	7.00	38.45	PASS
HSDPA Subtest 4	826.40	19.60	-2.10	15.35	7.00	38.45	PASS
	836.60	19.48	-2.10	15.23	7.00	38.45	PASS
	846.40	19.92	-2.10	15.67	7.00	38.45	PASS
HSUPA Subtest 1	826.40	20.75	-2.10	16.50	7.00	38.45	PASS
	836.60	20.66	-2.10	16.41	7.00	38.45	PASS
	846.40	20.45	-2.10	16.20	7.00	38.45	PASS
HSUPA Subtest 2	826.40	19.94	-2.10	15.69	7.00	38.45	PASS
	836.60	19.72	-2.10	15.47	7.00	38.45	PASS
	846.40	19.51	-2.10	15.26	7.00	38.45	PASS
HSUPA Subtest 3	826.40	19.74	-2.10	15.49	7.00	38.45	PASS
	836.60	19.32	-2.10	15.07	7.00	38.45	PASS
	846.40	19.16	-2.10	14.91	7.00	38.45	PASS
HSUPA Subtest 4	826.40	19.25	-2.10	15.00	7.00	38.45	PASS
	836.60	19.02	-2.10	14.77	7.00	38.45	PASS
	846.40	18.79	-2.10	14.54	7.00	38.45	PASS
HSUPA Subtest 5	826.40	17.80	-2.10	13.55	7.00	38.45	PASS
	836.60	17.55	-2.10	13.30	7.00	38.45	PASS
	846.40	17.35	-2.10	13.10	7.00	38.45	PASS



CDMA BC0							
Mode	Frequency (MHz)	Conducti on AVG Power(d Bm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit (W)	ERP Limit (dBm)	Conclusi on
CDMA BC0	824.70	24.62	-2.1	20.37	7.00	38.45	PASS
	836.52	24.31	-2.1	20.06	7.00	38.45	PASS
	848.31	24.62	-2.1	20.37	7.00	38.45	PASS
EVDO BC0	824.70	24.59	-2.1	20.34	7.00	38.45	PASS
	836.52	24.18	-2.1	19.93	7.00	38.45	PASS
	848.31	24.50	-2.1	20.25	7.00	38.45	PASS

CDMA BC1							
Mode	Frequency (MHz)	Conducti on AVG Power(d Bm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dB m)	Conclusi on
CDMA BC1	1851.25	24.16	-2.8	21.36	2.00	33.01	PASS
	1880.00	24.01	-2.8	21.21	2.00	33.01	PASS
	1908.75	23.40	-2.8	20.60	2.00	33.01	PASS
EVDO BC1	1851.25	24.09	-2.8	21.29	2.00	33.01	PASS
	1880.00	24.03	-2.8	21.23	2.00	33.01	PASS
	1908.75	23.33	-2.8	20.53	2.00	33.01	PASS



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GSM 850		
Mode	Frequency (MHz)	PAR
GSM 850	824.2	2.62
	836.6	2.60
	848.8	2.60
GPRS 850	824.2	2.62
	836.6	2.60
	848.8	2.59
EGPRS 850	824.2	5.45
	836.6	5.52
	848.8	5.53

PCS 1900		
Mode	Frequency (MHz)	PAR
PCS1900	1850.2	2.61
	1880	2.62
	1909.8	2.63
GPRS1900	1850.2	2.61
	1880	2.62
	1909.8	2.63
EGPRS1900	1850.2	5.23
	1880	5.63
	1909.8	5.39



UMTS Band 2		
Mode	Frequency (MHz)	PAR
WCDMA 1900 RMC	1852.4	3.04
	1880	3.06
	1907.6	2.95
HSDPA 1900	1852.4	3.38
	1880	3.12
	1907.6	3.31
HSUPA 1900	1852.4	3.24
	1880	3.42
	1907.6	3.28

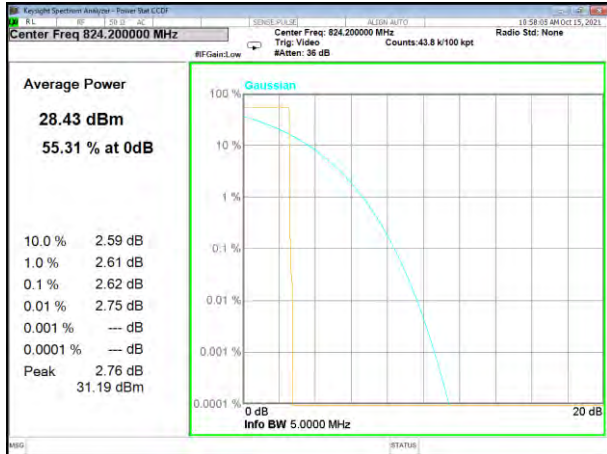
UMTS Band 5		
Mode	Frequency (MHz)	PAR
WCDMA 850 RMC	826.4	3.11
	836.6	2.84
	846.6	2.97
HSDPA 850	826.4	3.07
	836.6	3.11
	846.6	3.29
HSUPA 850	826.4	3.06
	836.6	2.96
	846.6	3.13

UMTS Band 4		
Mode	Frequency (MHz)	PAR
WCDMA 1700 RMC	1712.6	2.79
	1740	3.07
	1752.4	2.85
HSDPA 1700	1712.6	3.28
	1740	3.21
	1752.4	3.20
HSUPA 1700	1712.6	2.89
	1740	3.27
	1752.4	3.10

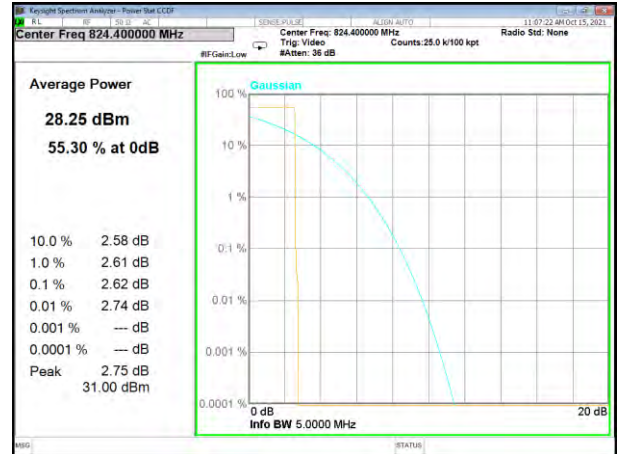


CDMA BC0		
Mode	Frequency (MHz)	PAR
CDMA BC0	824.7	3.44
	836.52	2.9
	848.31	3.1
EVDO BC0	824.7	4.25
	836.52	2.89
	848.31	3.12

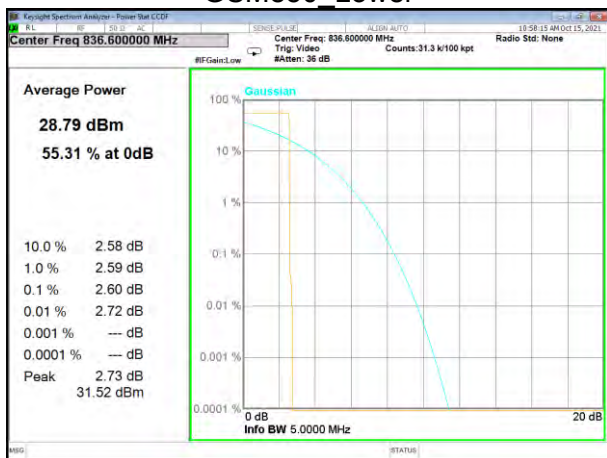
CDMA BC1		
Mode	Frequency (MHz)	PAR
CDMA BC1	1851.25	3.11
	1880	3.35
	1908.75	2.47
EVDO BC1	1851.25	3.11
	1880	3.3
	1908.75	2.44



GSM850_Lower



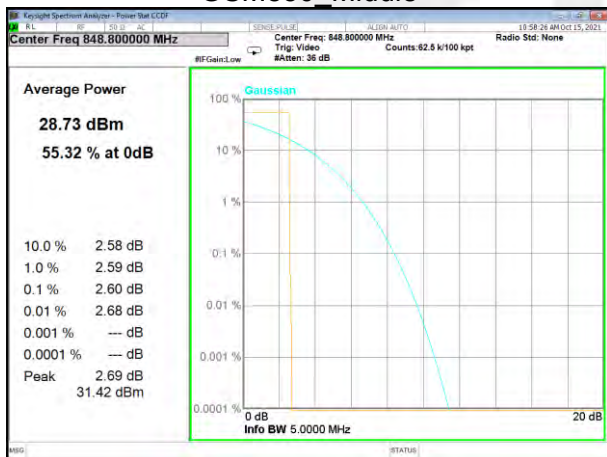
GPRS850_Lower



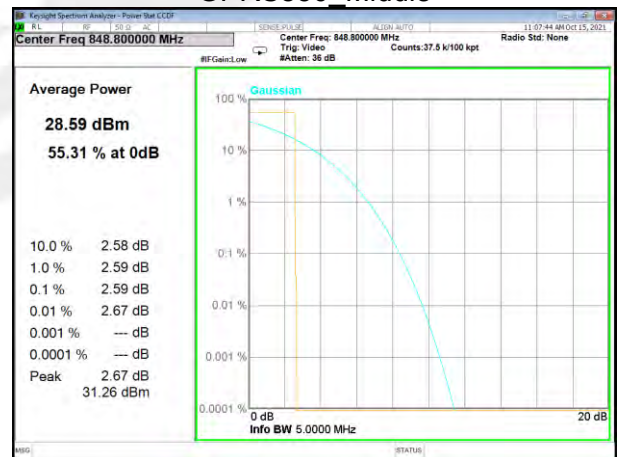
GSM850_Middle



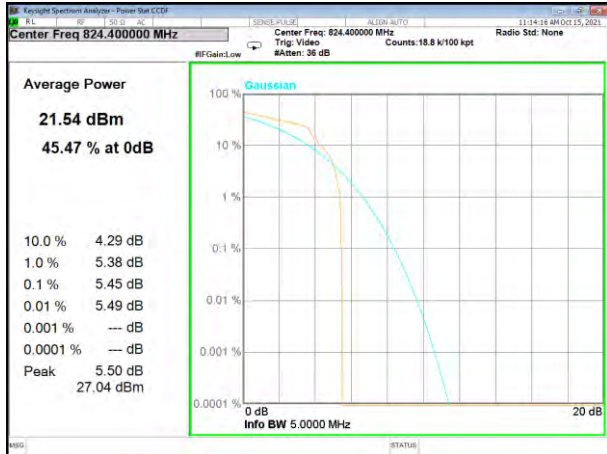
GPRS850_Middle



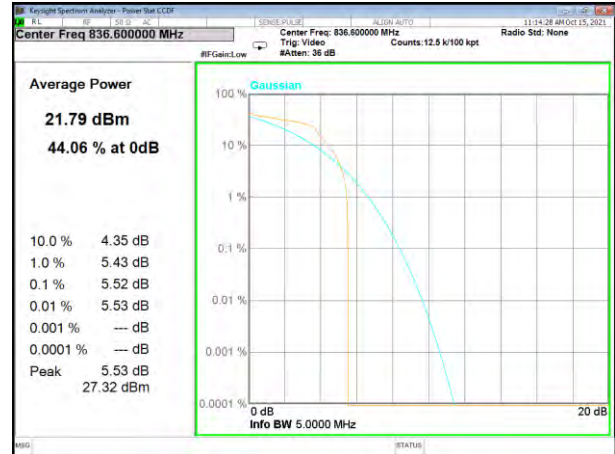
GSM850_Higher



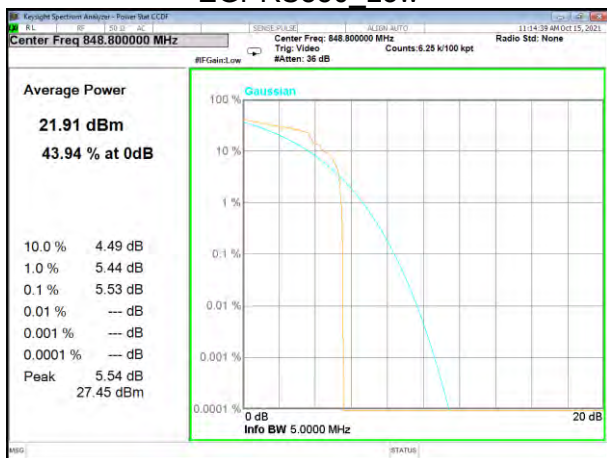
GPRS850_Higher



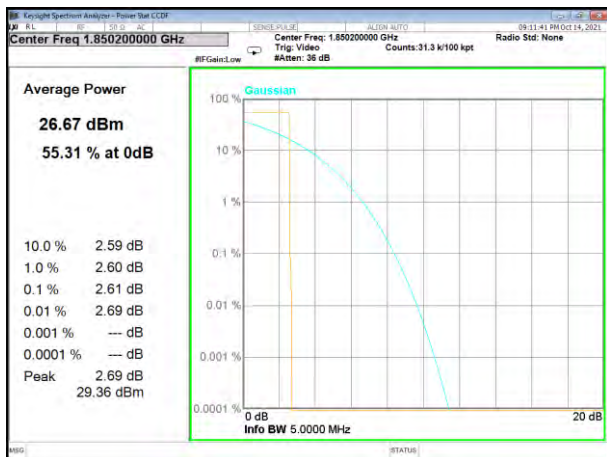
EGPRS850_Low



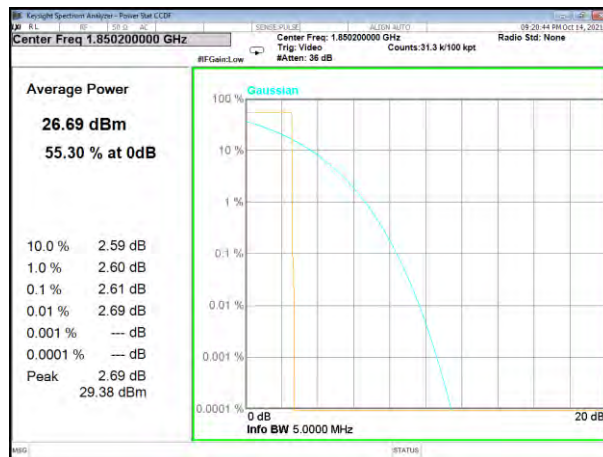
EGPRS850_Middle



EGPRS850_High



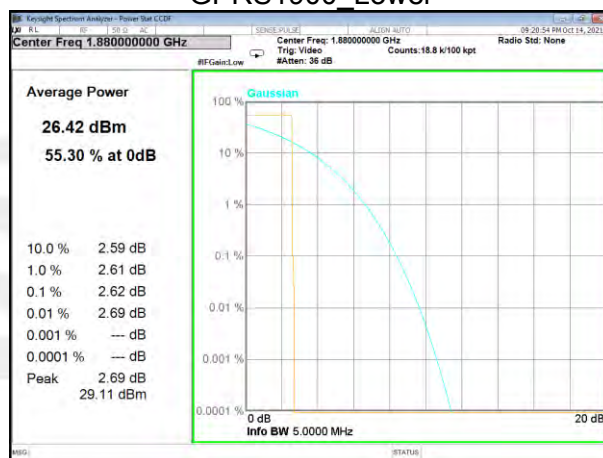
GSM1900_Lower



GPRS1900_Lower



GSM1900_Middle



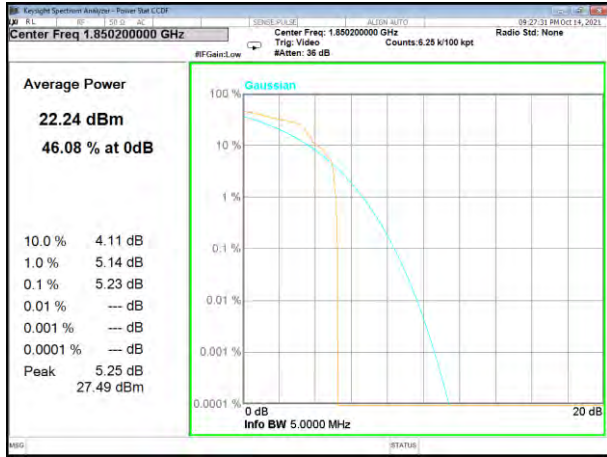
GPRS1900_Middle



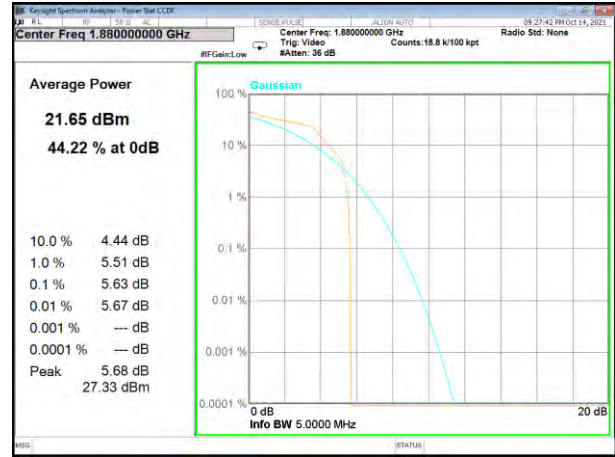
GSM1900_Higher



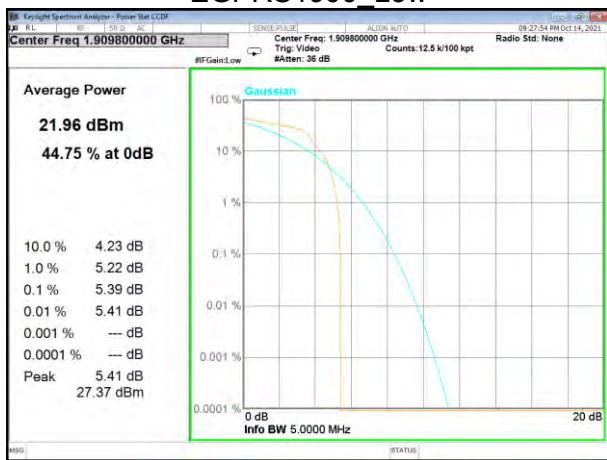
GPRS1900_Higher



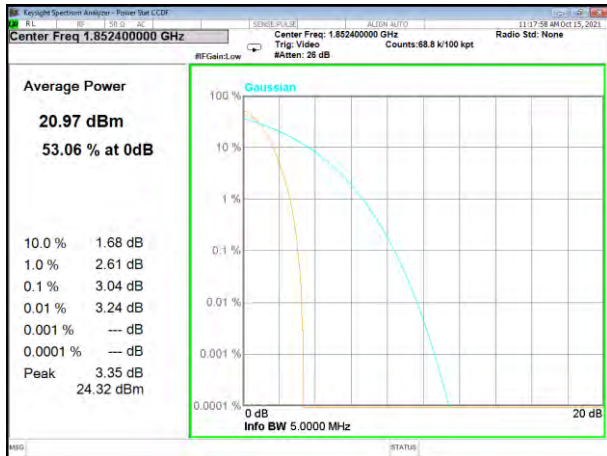
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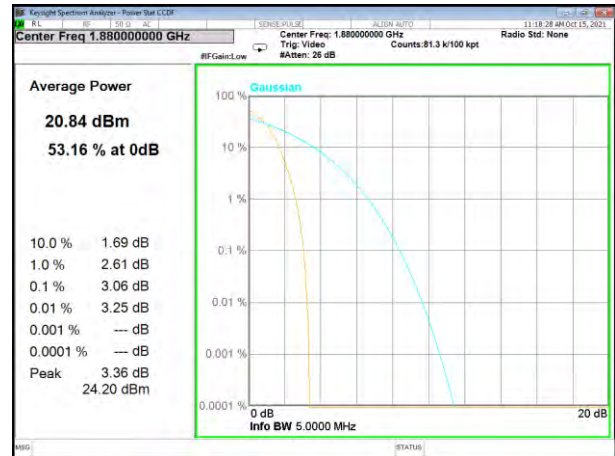
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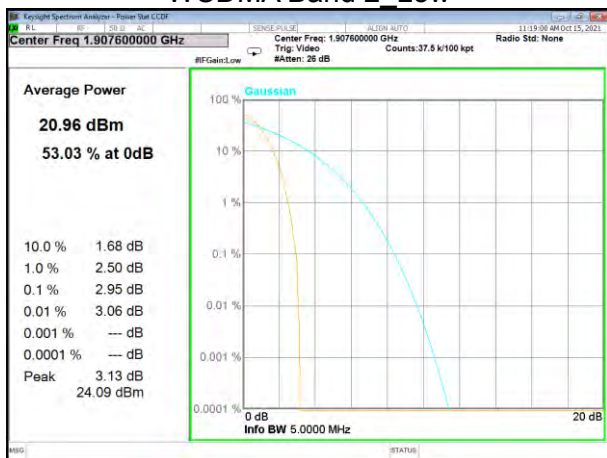
EGPRS1900_High



WCDMA Band 2_Low



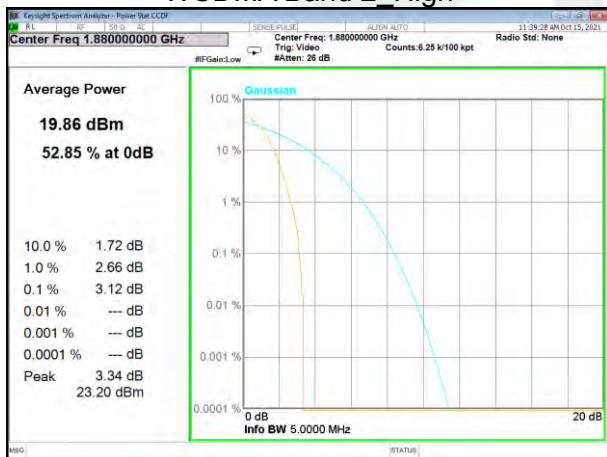
WCDMA Band 2_Middle



WCDMA Band 2_High



HSDPA Band 2_Low



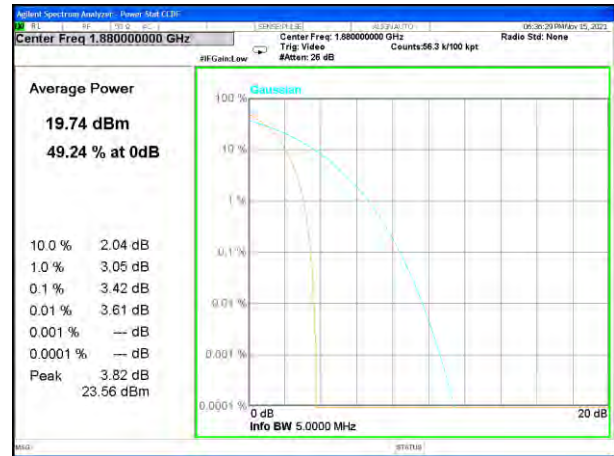
HSDPA Band 2_Middle



HSDPA Band 2_High



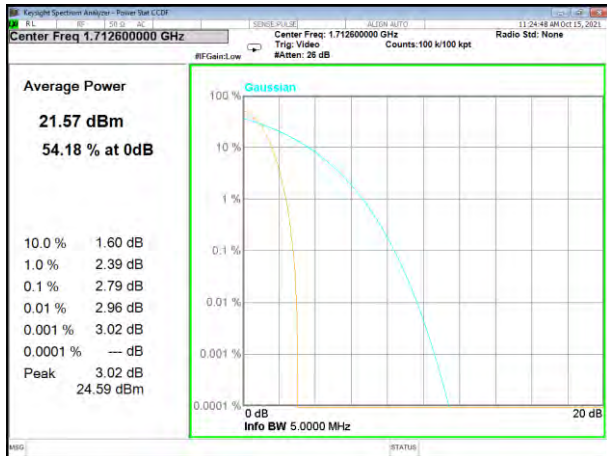
HSPA Band 2_Low



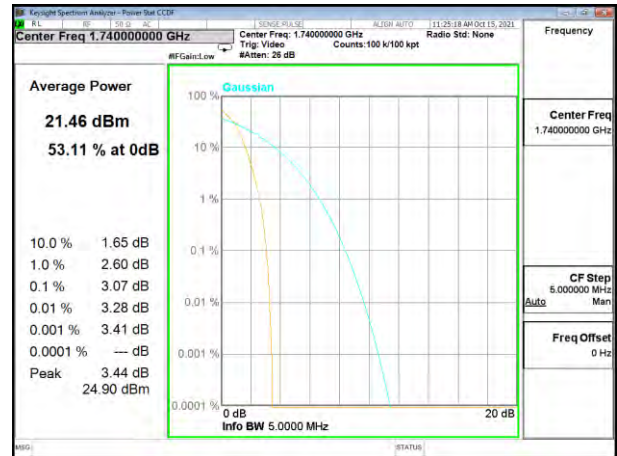
HSPA Band 2_Middle



HSPA Band 2_High



WCDMA Band 4_Low



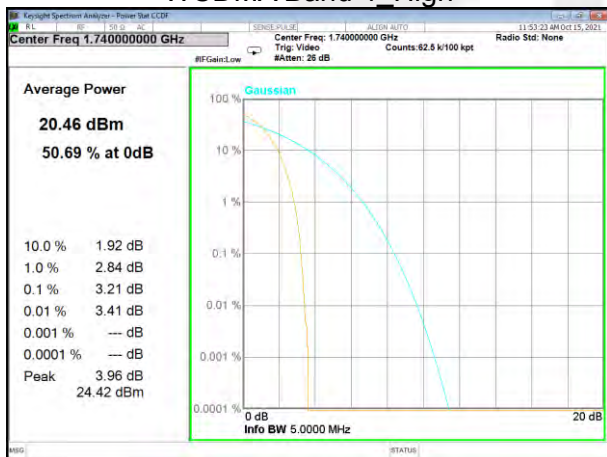
WCDMA Band 4_Middle



WCDMA Band 4_High



HSDPA Band 4_Low



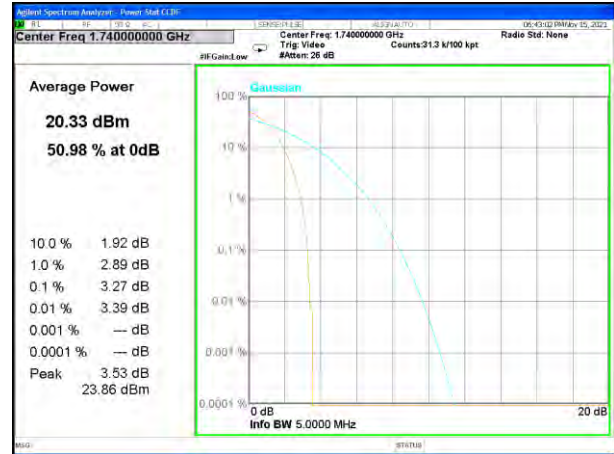
HSDPA Band 4_Middle



HSDPA Band 4_High



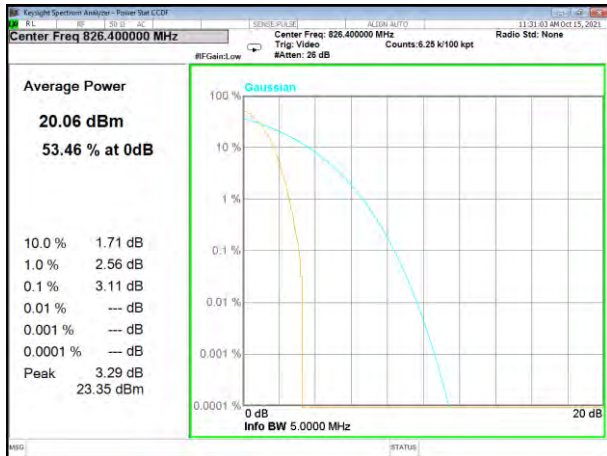
HSUPA Band 4_Low



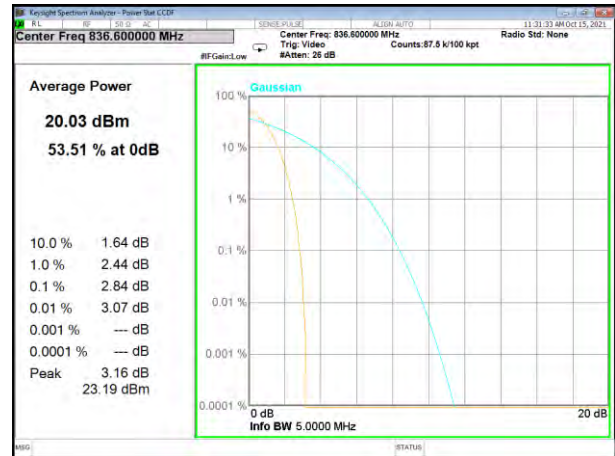
HSUPA Band 4_Middle



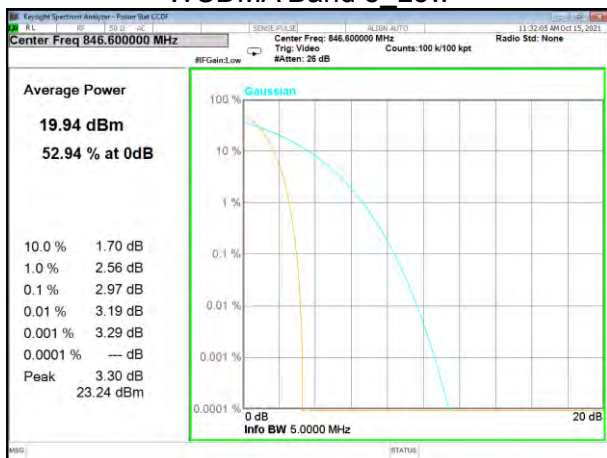
HSUPA Band 4_High



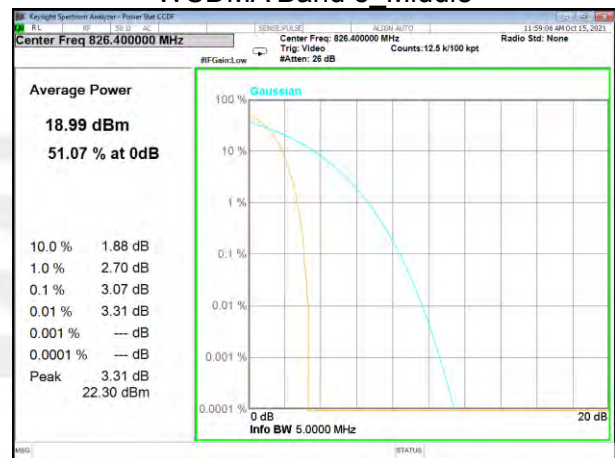
WCDMA Band 5_Low



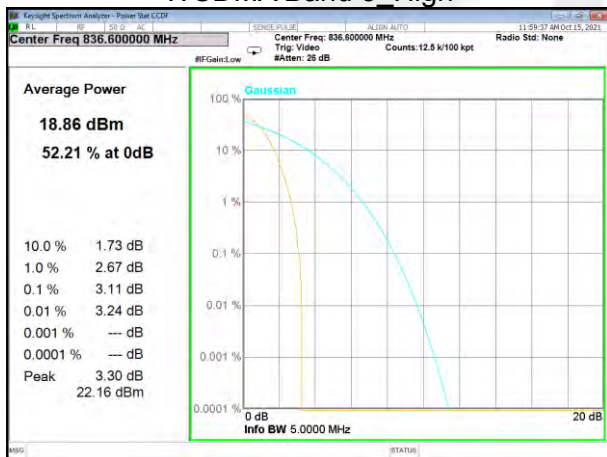
WCDMA Band 5_Middle



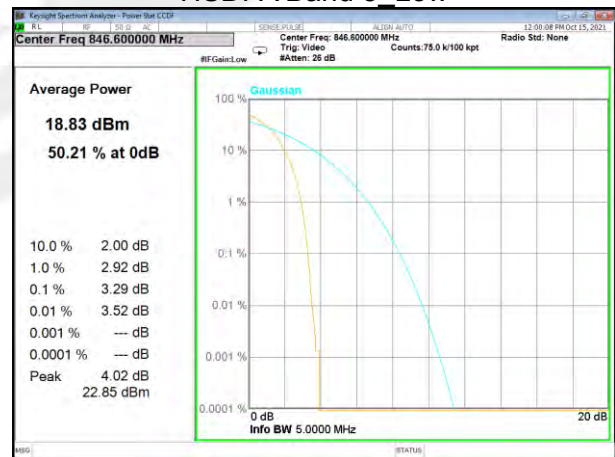
WCDMA Band 5_High



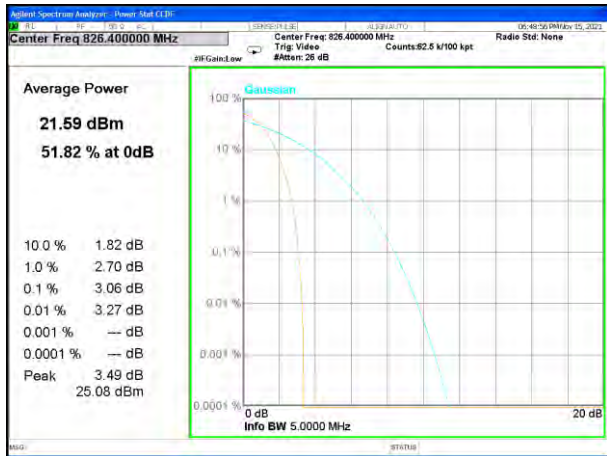
HSDPA Band 5_Low



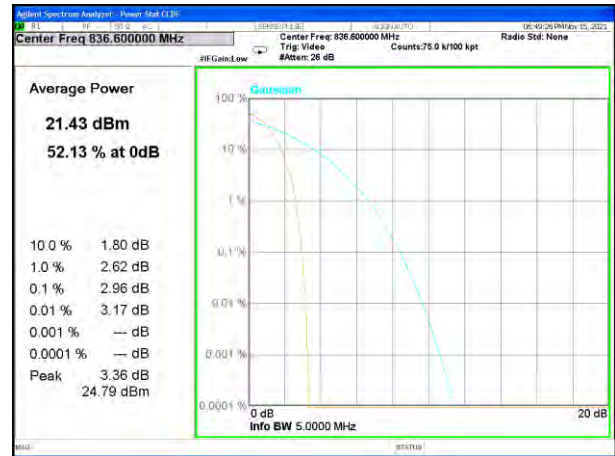
HSDPA Band 5_Middle



HSDPA Band 5_High



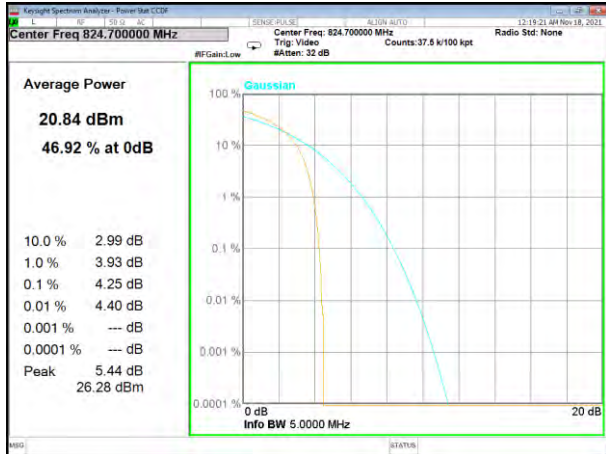
HSUPA Band 5_Low



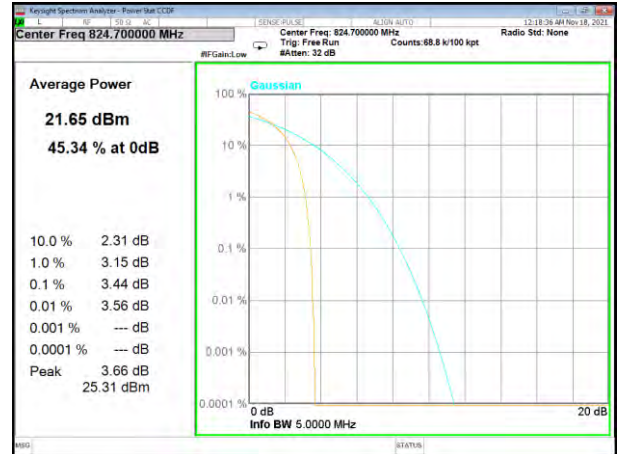
HSUPA Band 5_Middle



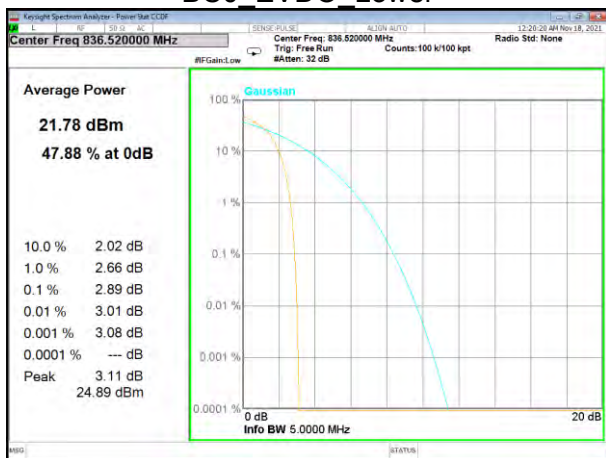
HSUPA Band 5_High



BC0_EVDO_Lower



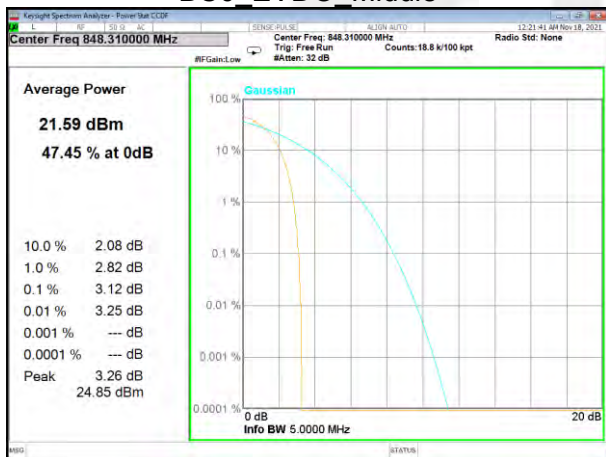
BC0_Lower



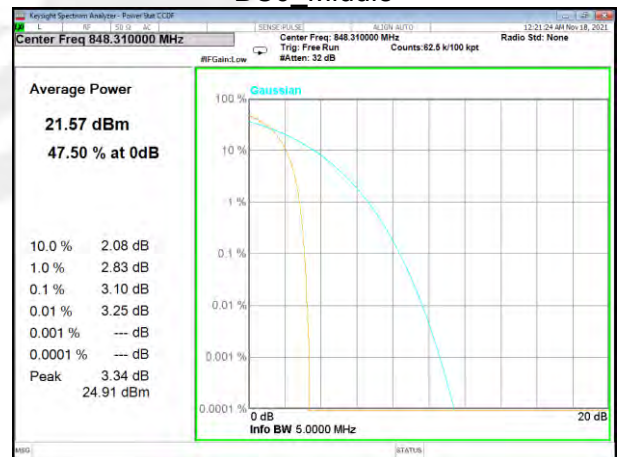
BC0_EVDO_Middle



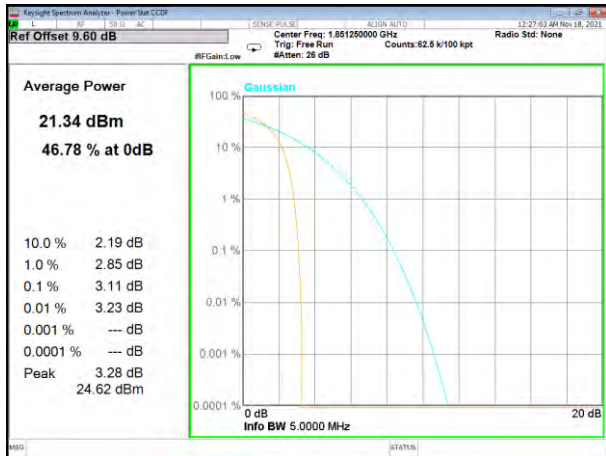
BC0_Middle



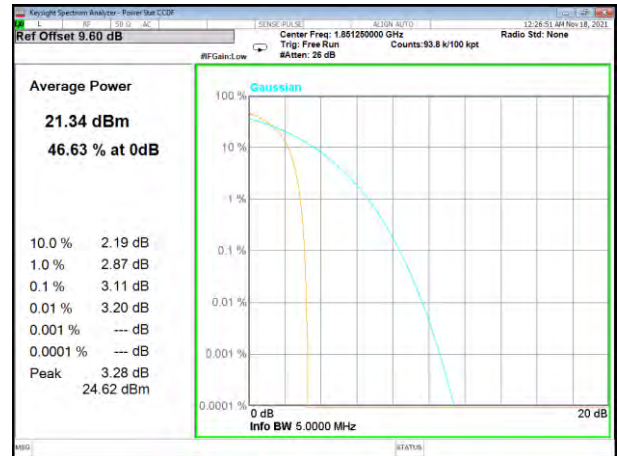
BC0_EVDO_Higher



BC0_Higher



BC1_EVDO_Lower



BC1_Lower



BC1_EVDO_Middle



BC1_Middle



BC1_EVDO_Higher



BC1_Higher



A3. 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	243.57	314.6	244.09	313.6	245.54	317.2
GPRS850	244.27	315.8	245.88	316.1	246.25	319.6
EGPRS850	251.79	324.4	249.94	315.5	248.64	326.3

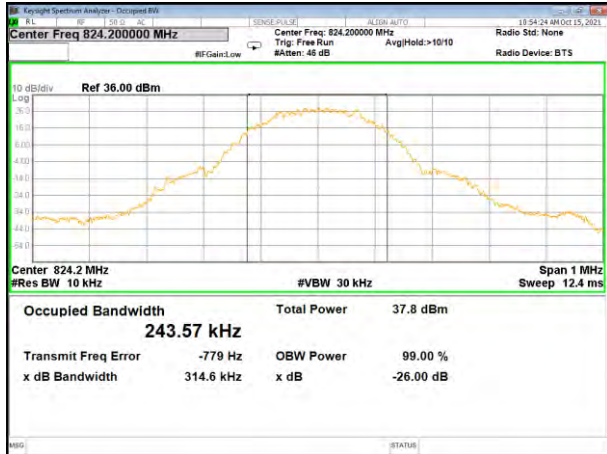
GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM1900	243.52	310.6	244.31	320.2	245.15	317.3
GPRS1900	243.27	317.6	245.18	312.4	243.07	312.6
EGPRS1900	252.56	316.9	251.26	318.8	252.54	313.3

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 2	4.147	4.668	4.137	4.657	4.138	4.667
HSDPA 2	4.148	4.662	4.15	4.651	4.139	4.662
HSUPA 2	4.14	4.66	4.15	4.661	4.1353	4.662

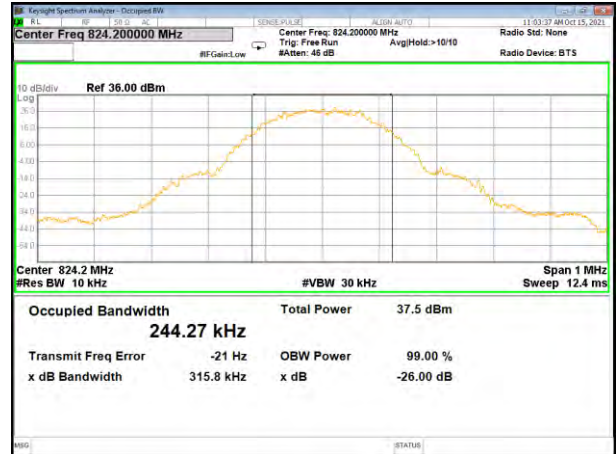
WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 5	4.14	4.665	4.152	4.688	4.119	4.662
HSDPA 5	4.148	4.657	4.146	4.676	4.1246	4.661
HSUPA 5	4.15	4.681	4.1513	4.691	4.136	4.659

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA 4	4.148	4.692	4.135	4.67	4.1395	4.674
HSDPA 4	4.148	4.674	4.146	4.653	4.138	4.667
HSUPA 4	4.142	4.674	4.138	4.683	4.143	4.674

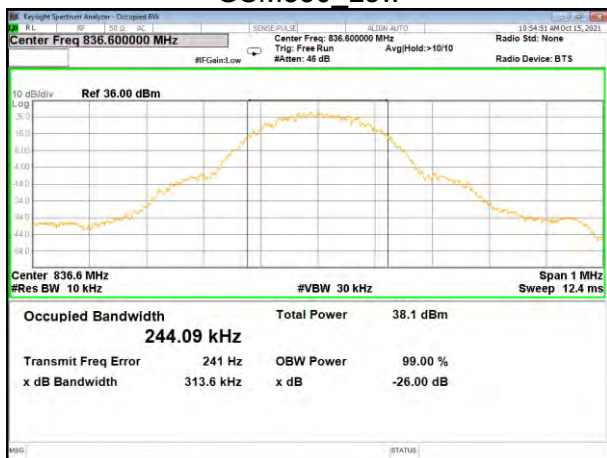
CDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
BC0	1.2837	1.44	1.2839	1.469	1.2873	1.468
BC0-EVDO	1.2787	1.444	1.286	1.46	1.2837	1.461
BC1	1.2865	1.467	1.2814	1.453	1.3073	1.864
BC1-EVDO	1.285	1.459	1.2794	1.453	1.3081	1.987



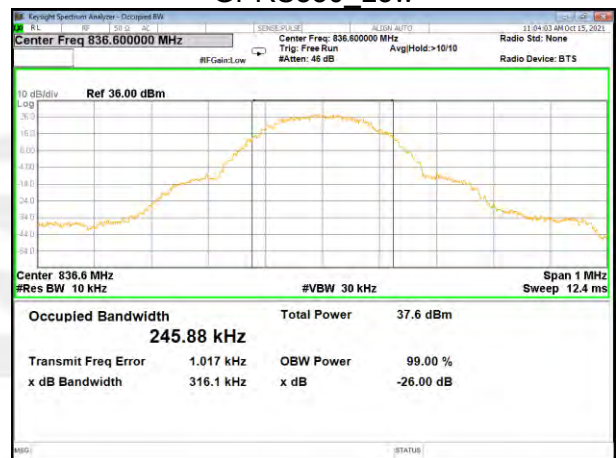
GSM850_Low



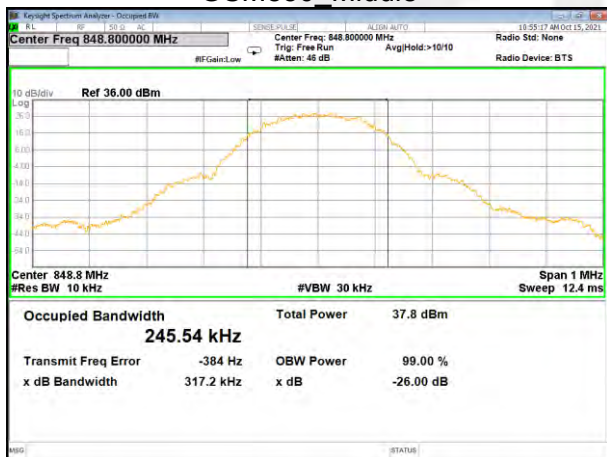
GPRS850_Low



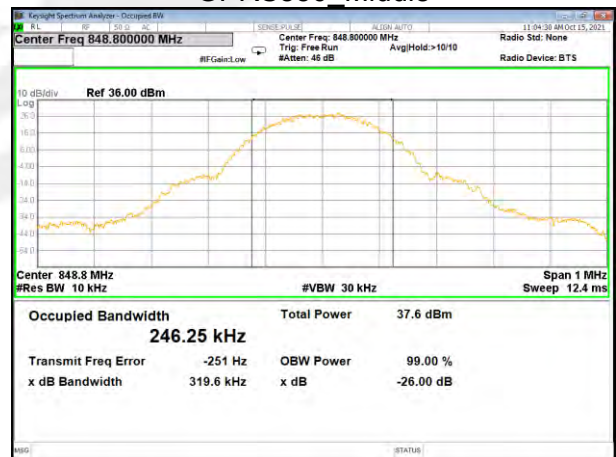
GSM850_Middle



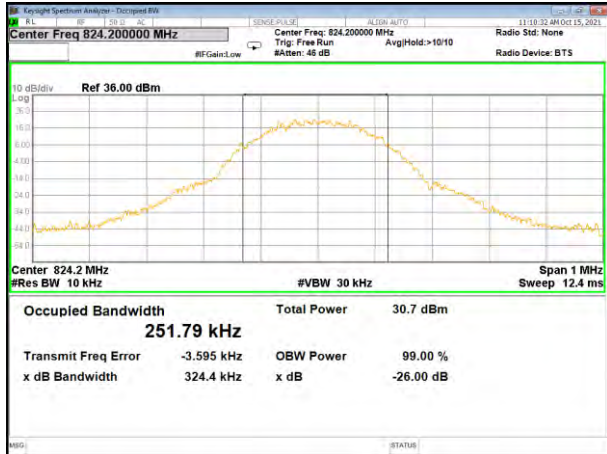
GPRS850_Middle



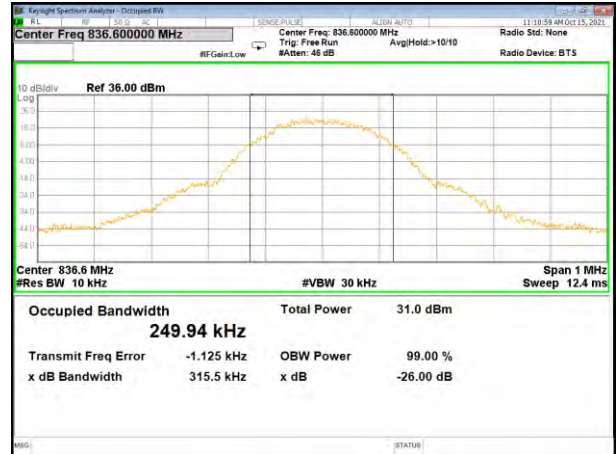
GSM850_High



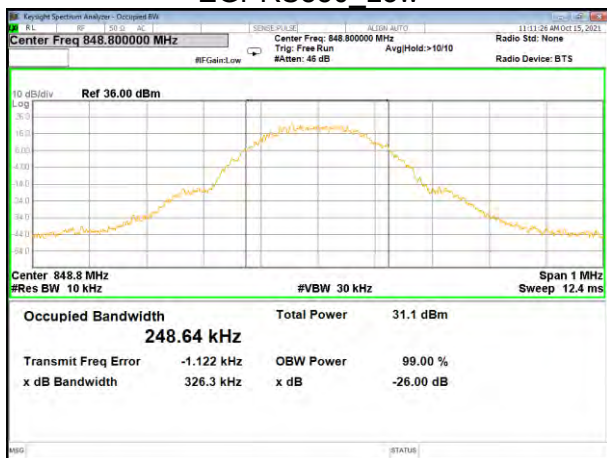
GPRS850_High



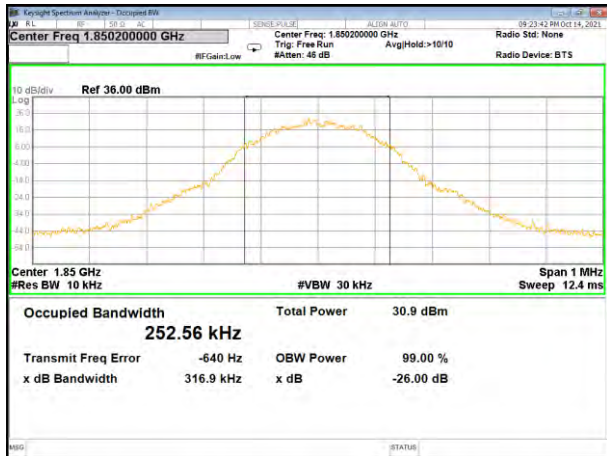
EGPRS850_Low



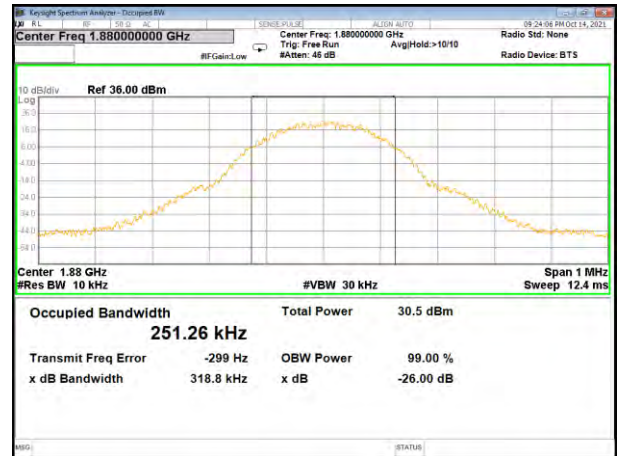
EGPRS850_Middle



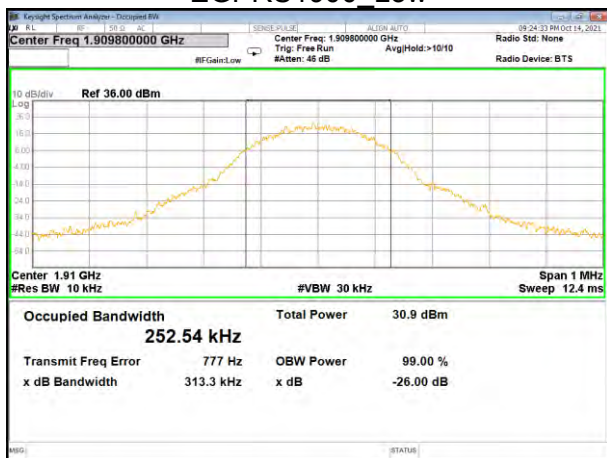
EGPRS850_High



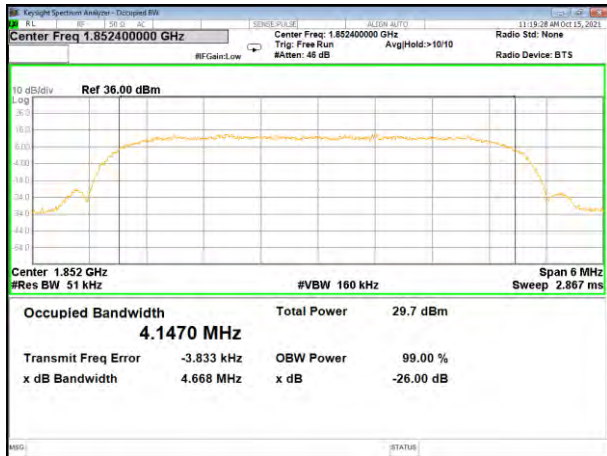
EGPRS1900_Low



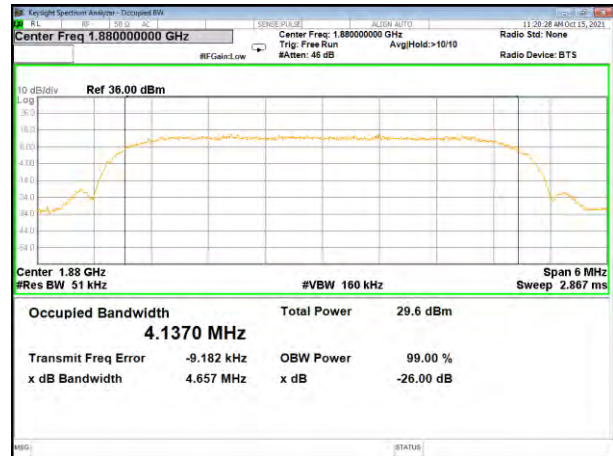
EGPRS1900_Middle



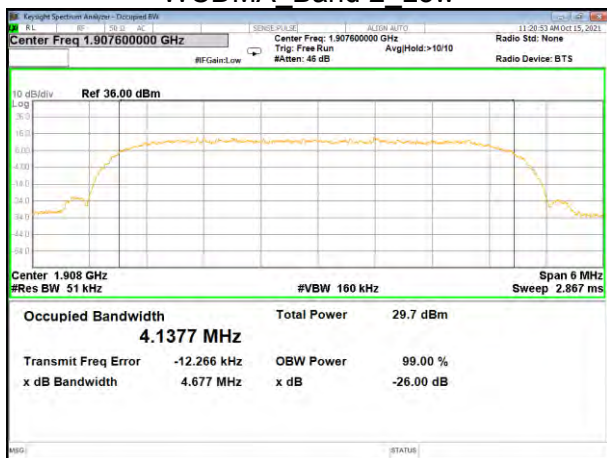
EGPRS1900_High



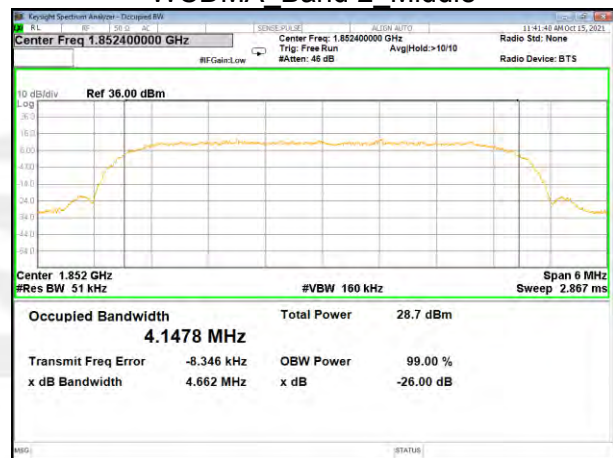
WCDMA_Band 2_Low



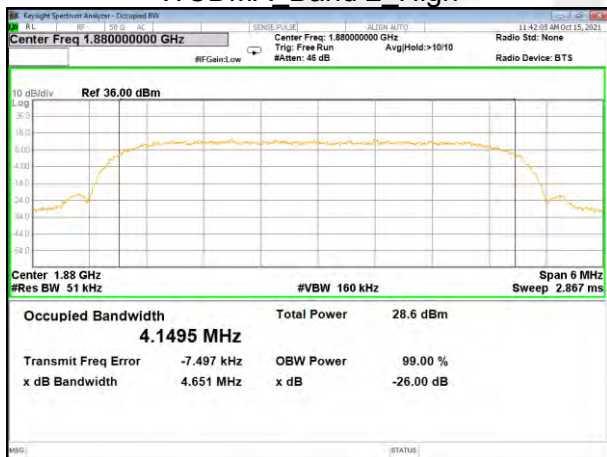
WCDMA_Band 2_Middle



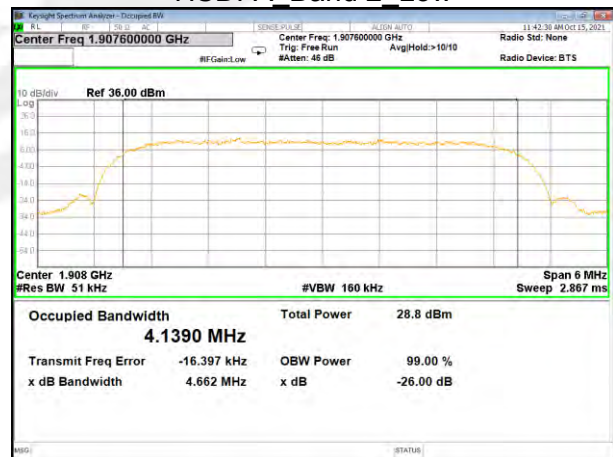
WCDMA_Band 2_High



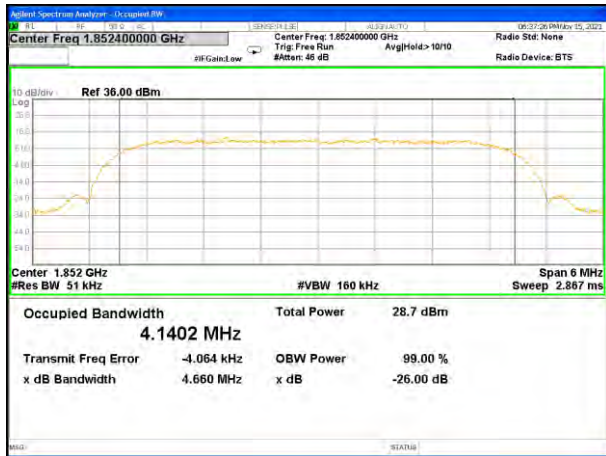
HSDPA_Band 2_Low



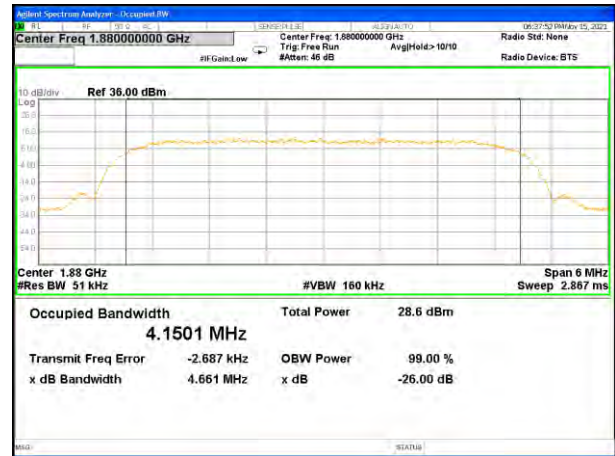
HSDPA_Band 2_Middle



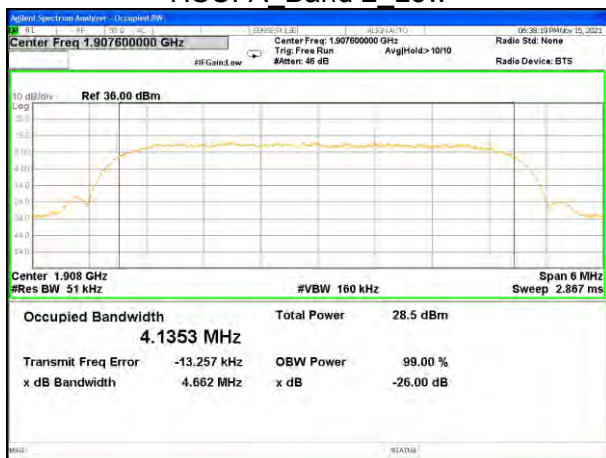
HSDPA_Band 2_High



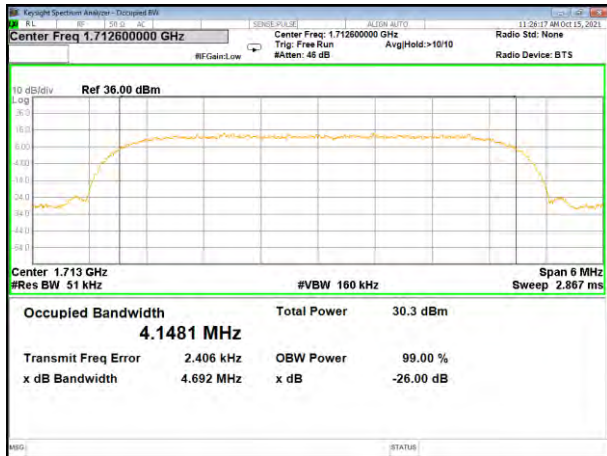
HSUPA_Band 2_Low



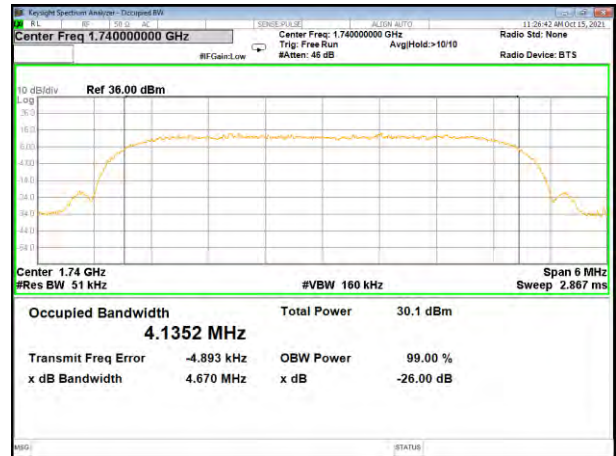
HSUPA_Band 2_Middle



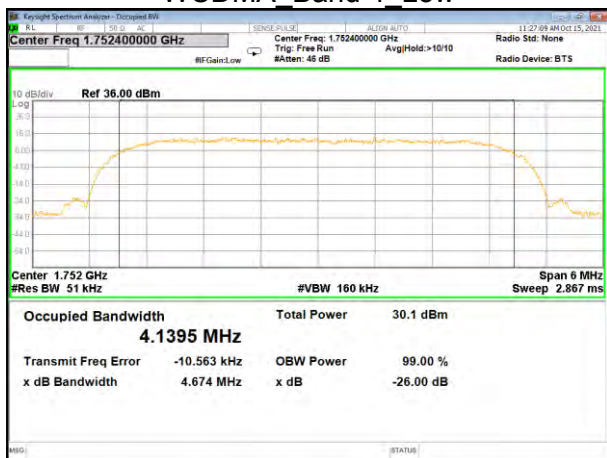
HSUPA_Band 2_High



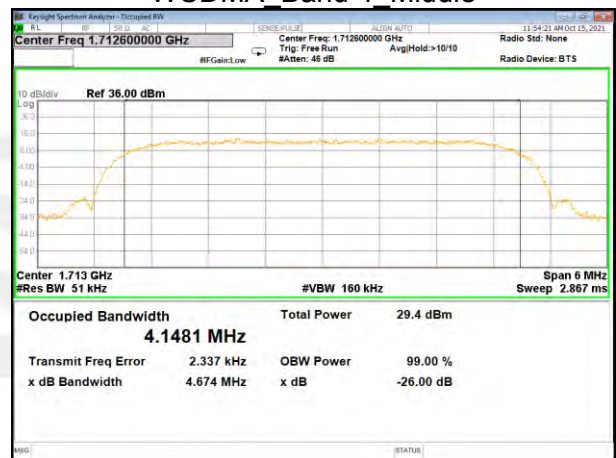
WCDMA_Band 4_Low



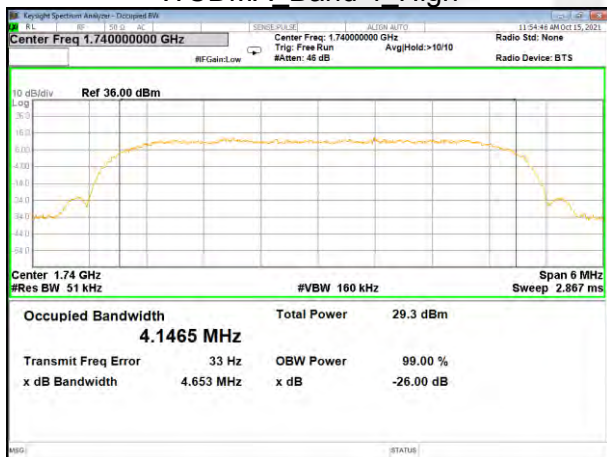
WCDMA_Band 4_Middle



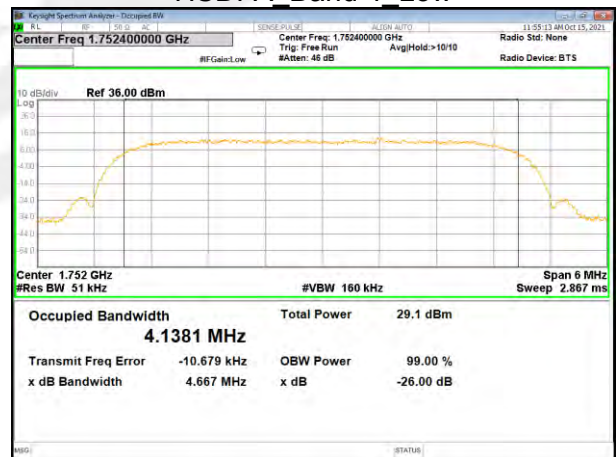
WCDMA_Band 4_High



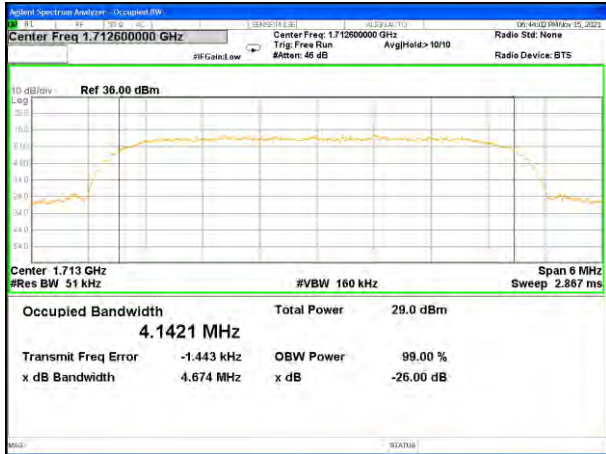
HSDPA_Band 4_Low



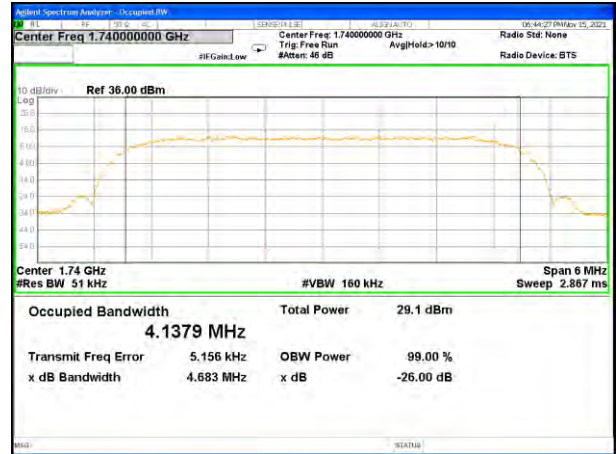
HSDPA_Band 4_Middle



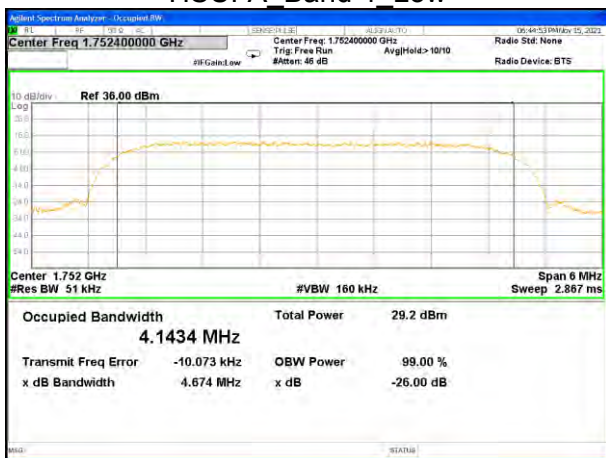
HSDPA_Band 4_High



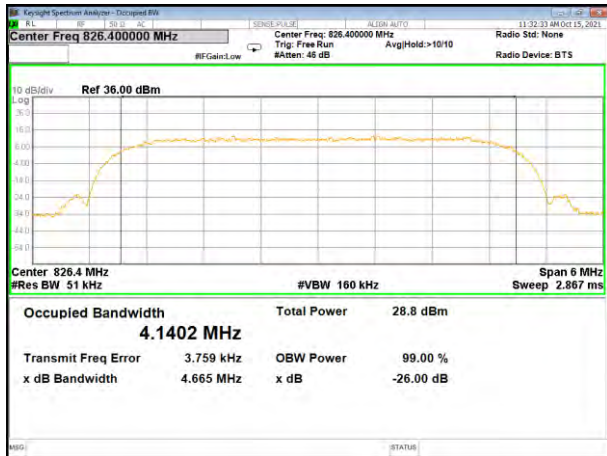
HSUPA_Band 4_Low



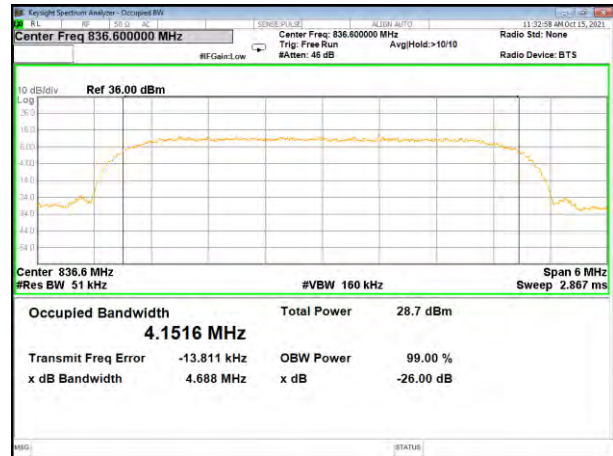
HSUPA_Band 4_Middle



HSUPA_Band 4_High



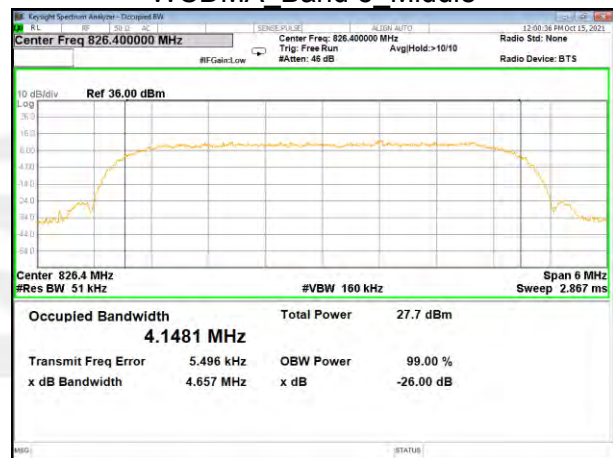
WCDMA_Band 5_Low



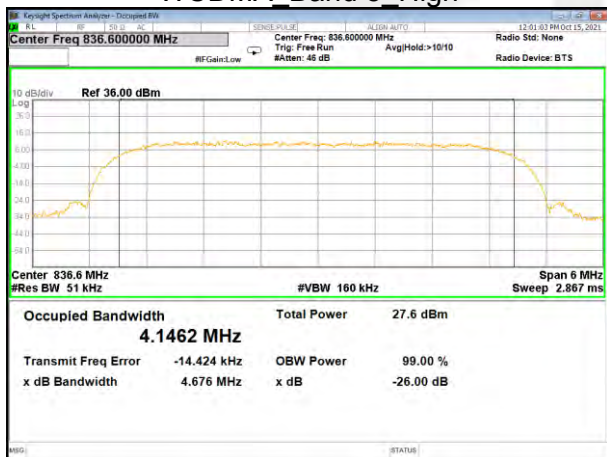
WCDMA_Band 5_Middle



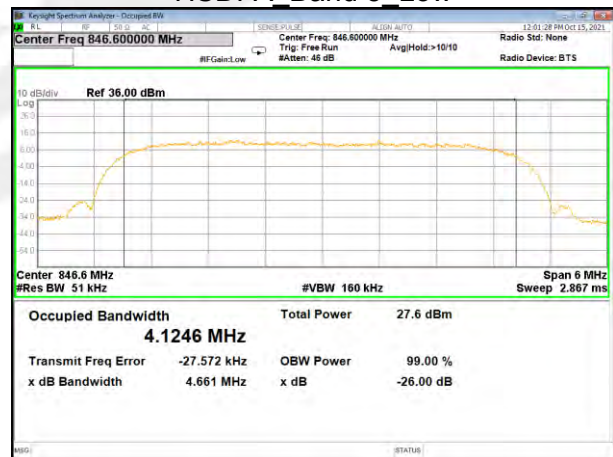
WCDMA_Band 5_High



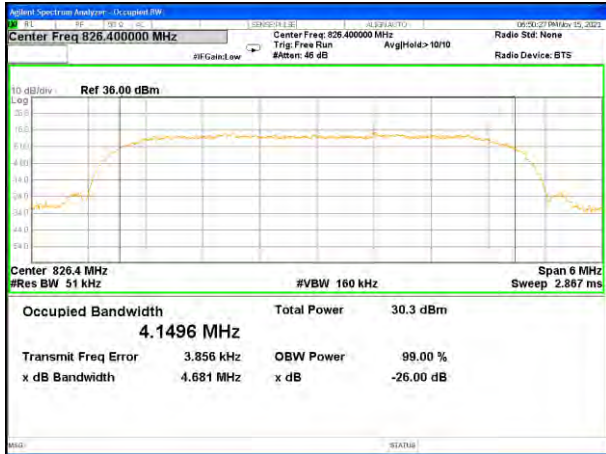
HSDPA_Band 5_Low



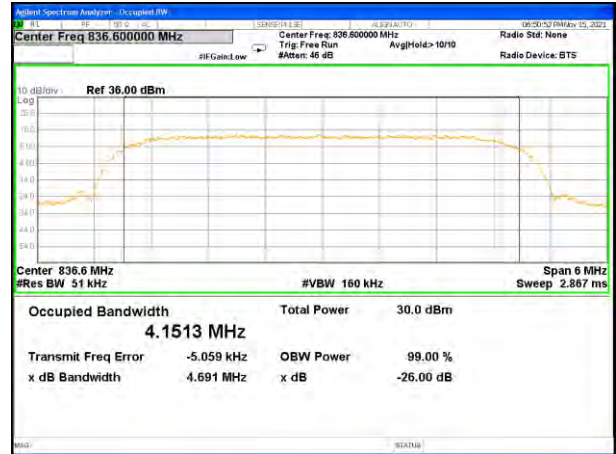
HSDPA_Band 5_Middle



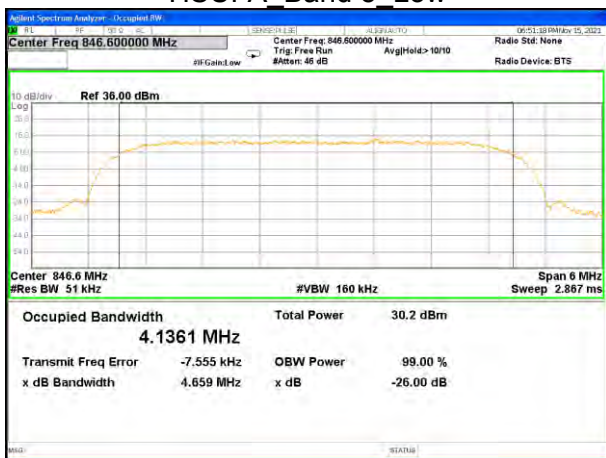
HSDPA_Band 5_High



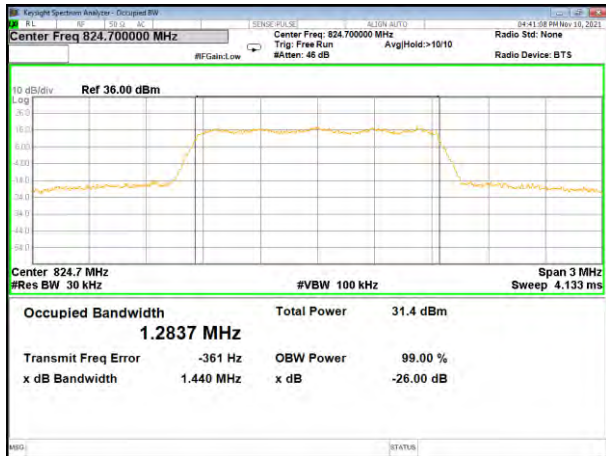
HSUPA_Band 5_Low



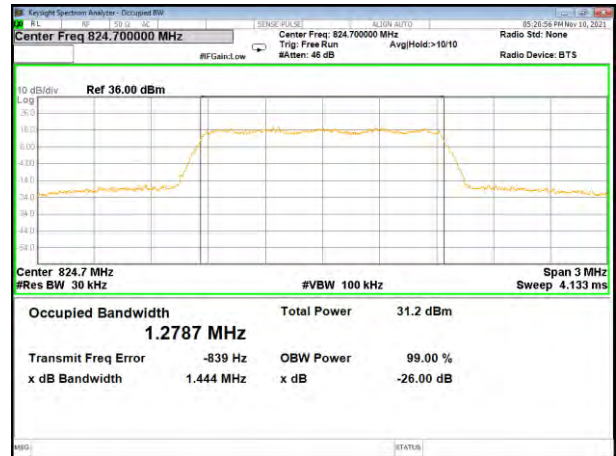
HSUPA_Band 5_Middle



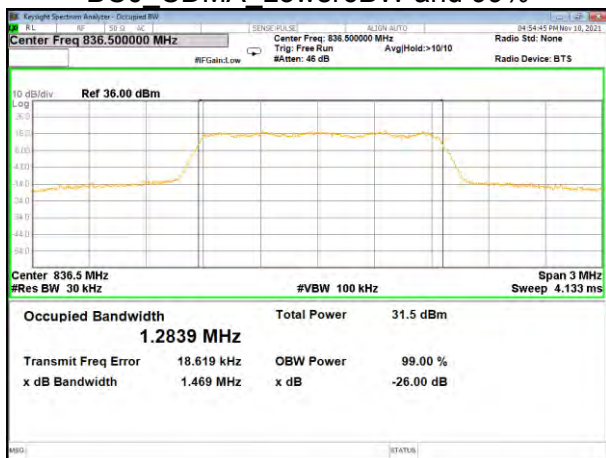
HSUPA_Band 5_High



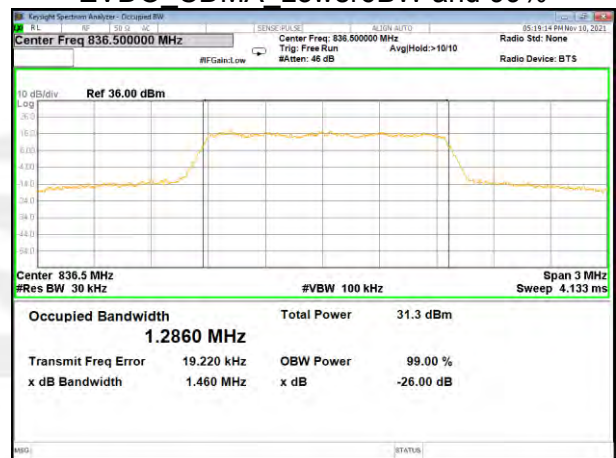
BC0 CDMA Lower6BW and 99%



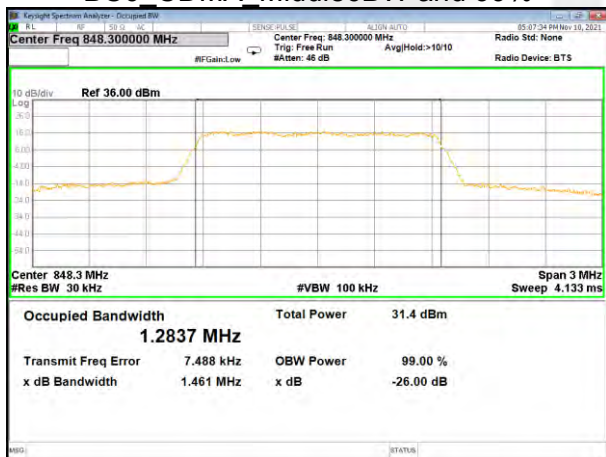
EVDO CDMA Lower6BW and 99%



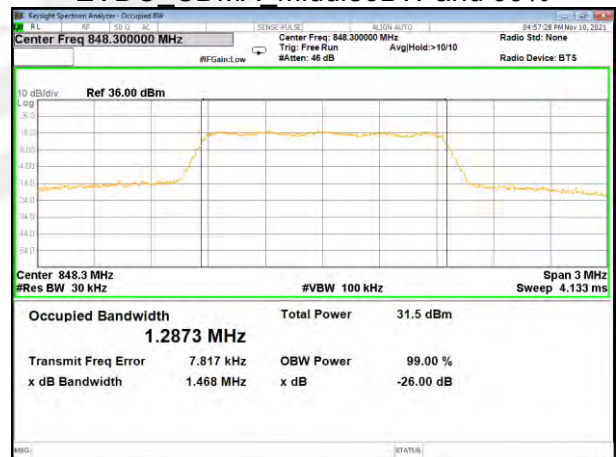
BC0 CDMA Middle6BW and 99%



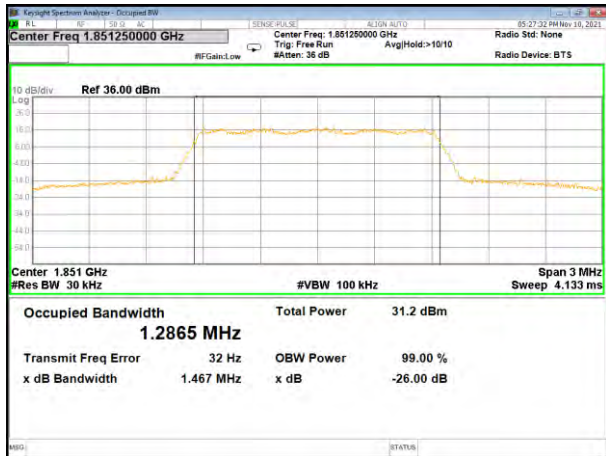
EVDO CDMA Middle6BW and 99%



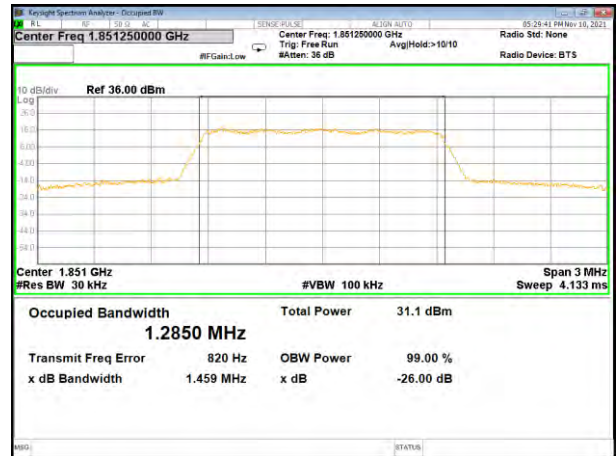
BC0_CDMA_Higher6BW and 99%



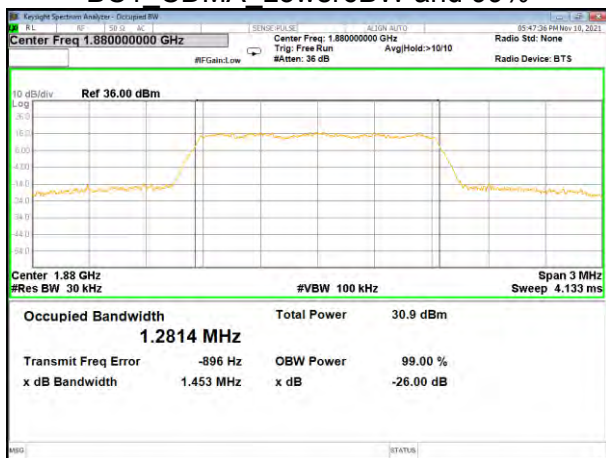
EVDO_CDMA_Higher6BW and 99%



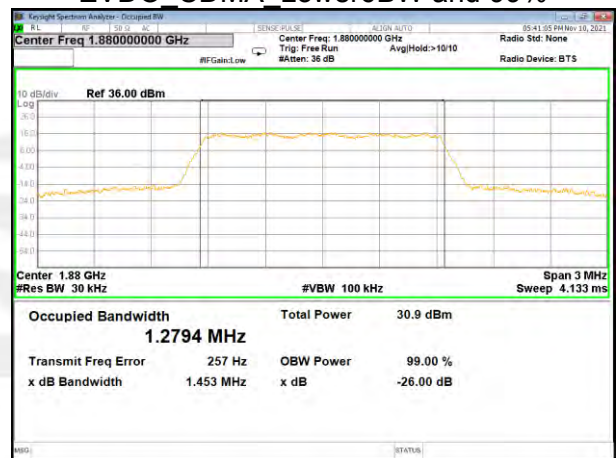
BC1 CDMA Lower6BW and 99%



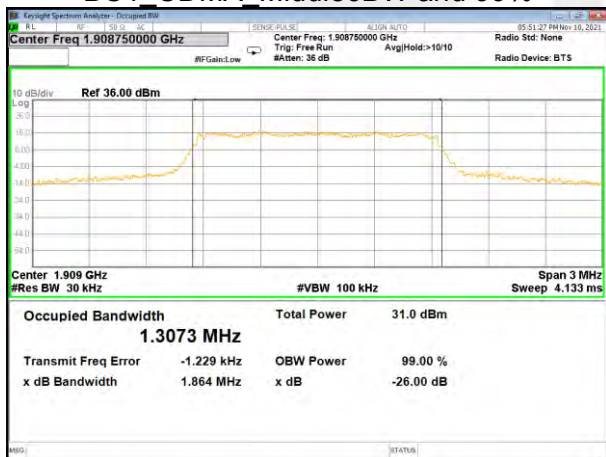
EVDO CDMA Lower6BW and 99%



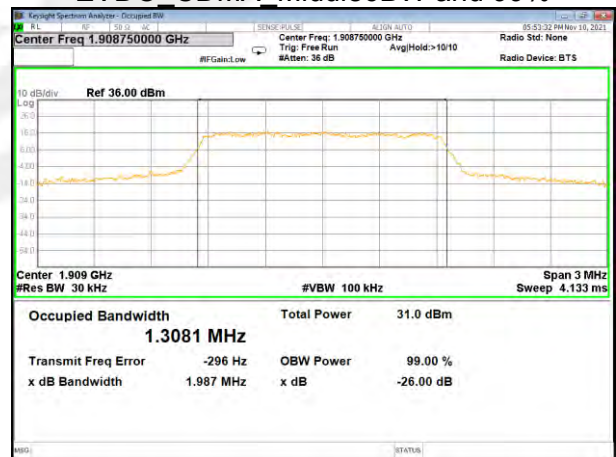
BC1 CDMA Middle6BW and 99%



EVDO CDMA Middle6BW and 99%



BC1_CDMA_Higher6BW and 99%



EVDO_CDMA_Higher6BW and 99%



A4. FREQUENCY STABILITY

Normal Voltage = 3.85V; Battery End Point (BEP) = 4.4V; Maximum Voltage = 3.55V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	26.08	0.031	2.5ppm	PASS
40		31.07	0.037		
30		30.67	0.037		
20		24.55	0.029		
10		25.88	0.031		
0		11.88	0.014		
-10		15.71	0.019		
-20		25.79	0.031		
-30		18.91	0.023		
20	Maximum Voltage	27.30	0.033		
20	BEP	27.42	0.033		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	13.45	0.016	2.5ppm	PASS
40		26.77	0.032		
30		15.51	0.019		
20		13.75	0.016		
10		11.59	0.014		
0		22.98	0.027		
-10		25.89	0.031		
-20		30.84	0.037		
-30		34.11	0.041		
20	Maximum Voltage	23.49	0.028		
20	BEP	33.10	0.040		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	28.92	0.035	2.5ppm	PASS
40		19.90	0.024		
30		30.69	0.037		
20		24.65	0.029		
10		13.10	0.016		
0		26.07	0.031		
-10		22.88	0.027		
-20		15.24	0.018		
-30		11.58	0.014		
20	Maximum Voltage	29.89	0.036		
20	BEP	16.25	0.019		



GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.12	0.018	Within Authorized Band	PASS
40		31.48	0.017		
30		26.84	0.014		
20		32.03	0.017		
10		22.11	0.012		
0		12.23	0.007		
-10		24.77	0.013		
-20		28.21	0.015		
-30		34.56	0.018		
20	Maximum Voltage	12.06	0.006		
20	BEP	15.83	0.008		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	19.42	0.010	Within Authorized Band	PASS
40		32.83	0.017		
30		34.99	0.019		
20		15.20	0.008		
10		31.35	0.017		
0		35.64	0.019		
-10		20.28	0.011		
-20		16.34	0.009		
-30		29.65	0.016		
20	Maximum Voltage	17.02	0.009		
20	BEP	19.14	0.010		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.81	0.012	Within Authorized Band	PASS
40		17.75	0.009		
30		35.29	0.019		
20		34.91	0.019		
10		35.76	0.019		
0		18.73	0.010		
-10		33.35	0.018		
-20		28.92	0.015		
-30		29.22	0.016		
20	Maximum Voltage	13.94	0.007		
20	BEP	16.13	0.009		



UMTS Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.88	0.013	Within Authorized Band	PASS
40		14.68	0.008		
30		13.87	0.007		
20		27.11	0.014		
10		14.61	0.008		
0		31.26	0.017		
-10		14.97	0.008		
-20		27.41	0.015		
-30		14.46	0.008		
20	Maximum Voltage	32.82	0.017		
20	BEP	14.31	0.008		

HSDPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.70	0.016	Within Authorized Band	PASS
40		17.39	0.009		
30		23.07	0.012		
20		20.38	0.011		
10		30.37	0.016		
0		31.70	0.017		
-10		28.43	0.015		
-20		24.61	0.013		
-30		35.96	0.019		
20	Maximum Voltage	30.85	0.016		
20	BEP	24.72	0.013		

HSUPA Band 2 /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.54	0.015	Within Authorized Band	PASS
40		32.14	0.017		
30		12.82	0.007		
20		16.10	0.009		
10		15.33	0.008		
0		18.82	0.010		
-10		24.22	0.013		
-20		29.32	0.016		
-30		17.78	0.009		
20	Maximum Voltage	24.55	0.013		
20	BEP	34.03	0.018		



UMTS Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.48	0.033	2.5ppm	PASS
40		27.33	0.033		
30		20.83	0.025		
20		22.93	0.027		
10		24.77	0.030		
0		27.03	0.032		
-10		33.49	0.040		
-20		14.50	0.017		
-30		13.86	0.017		
20	Maximum Voltage	14.30	0.017		
20	BEP	18.70	0.022		

HSDPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)		(ppm)		
50	Normal Voltage	29.75	0.036	2.5ppm	PASS
40		26.47	0.032		
30		28.09	0.034		
20		20.34	0.024		
10		17.01	0.020		
0		31.29	0.037		
-10		33.53	0.040		
-20		21.44	0.026		
-30		26.63	0.032		
20	Maximum Voltage	24.79	0.030		
20	BEP	19.40	0.023		

HSUPA Band 5 / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	11.55	0.014	2.5ppm	PASS
40		36.20	0.043		
30		21.31	0.025		
20		27.03	0.032		
10		15.41	0.018		
0		22.26	0.027		
-10		33.44	0.040		
-20		19.72	0.024		
-30		21.17	0.025		
20	Maximum Voltage	23.35	0.028		
20	BEP	31.97	0.038		



UMTS Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.07	0.019	Within Authorized Band	PASS
40		19.90	0.011		
30		18.35	0.010		
20		15.96	0.008		
10		22.08	0.012		
0		17.01	0.009		
-10		23.15	0.012		
-20		23.90	0.013		
-30		21.48	0.011		
20	Maximum Voltage	35.77	0.019		
20	BEP	26.80	0.014		

HSDPA Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.99	0.007	Within Authorized Band	PASS
40		33.67	0.018		
30		18.79	0.010		
20		20.38	0.011		
10		22.01	0.012		
0		27.15	0.014		
-10		28.19	0.015		
-20		14.38	0.008		
-30		25.58	0.014		
20	Maximum Voltage	12.75	0.007		
20	BEP	26.38	0.014		

HSUPA Band 4 /1740MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	17.86	0.010	Within Authorized Band	PASS
40		25.04	0.013		
30		20.40	0.011		
20		30.57	0.016		
10		19.62	0.010		
0		20.61	0.011		
-10		36.07	0.019		
-20		19.07	0.010		
-30		17.62	0.009		
20	Maximum Voltage	29.86	0.016		
20	BEP	27.66	0.015		



CDMA BC0					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.82	0.037	2.5ppm	PASS
40		12.45	0.015		
30		36.17	0.043		
20		29.62	0.035		
10		33.45	0.040		
0		36.00	0.043		
-10		14.28	0.017		
-20		18.09	0.022		
-30		25.03	0.030		
20	Maximum Voltage	12.28	0.015		
20	BEP	15.90	0.019		

EVDO BC0					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	20.91	0.025	2.5ppm	PASS
40		14.01	0.017		
30		12.95	0.015		
20		19.47	0.023		
10		18.22	0.022		
0		32.19	0.038		
-10		31.89	0.038		
-20		33.21	0.040		
-30		33.29	0.040		
20	Maximum Voltage	22.25	0.027		
20	BEP	30.45	0.036		



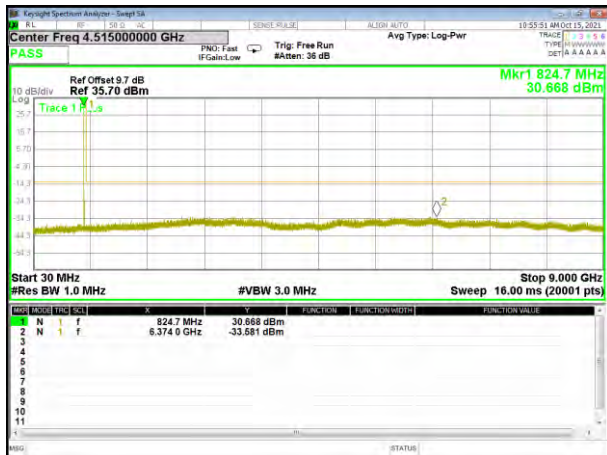
CDMA BC1					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.58	0.011	Within Authorized Band	PASS
40		12.99	0.007		
30		12.96	0.007		
20		24.40	0.013		
10		25.07	0.013		
0		19.45	0.010		
-10		11.73	0.006		
-20		31.61	0.017		
-30		19.93	0.011		
20	Maximum Voltage	25.51	0.014		
20	BEP	27.76	0.015		

EVDO BC1					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.65	0.007	Within Authorized Band	PASS
40		13.08	0.007		
30		11.96	0.006		
20		24.25	0.013		
10		18.02	0.010		
0		29.07	0.015		
-10		28.21	0.015		
-20		20.73	0.011		
-30		16.74	0.009		
20	Maximum Voltage	25.70	0.014		
20	BEP	19.49	0.010		

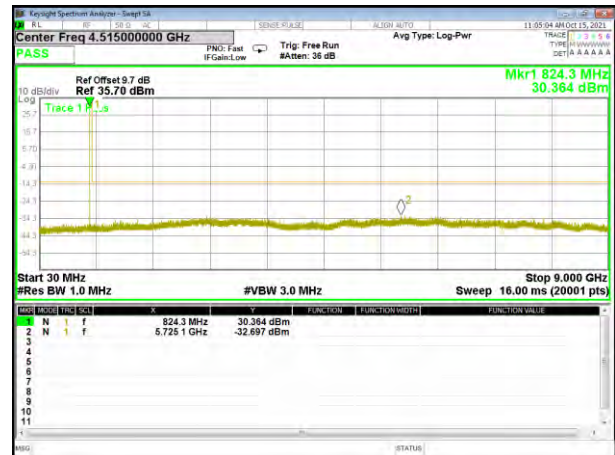
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



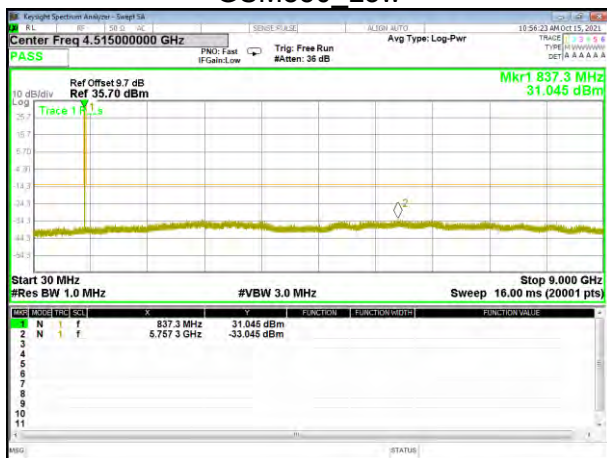
A5. SPURIOUS EMISSIONS AT ANTENNA TERMINALS



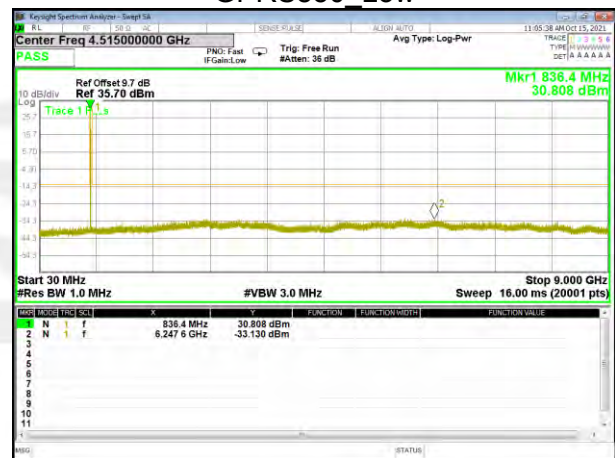
GSM850 Low



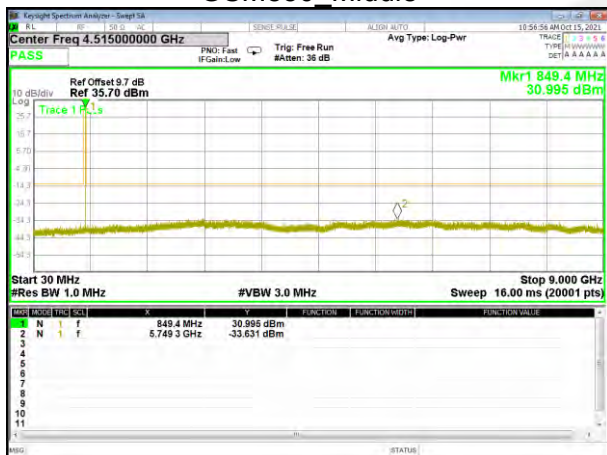
GPRS850 Low



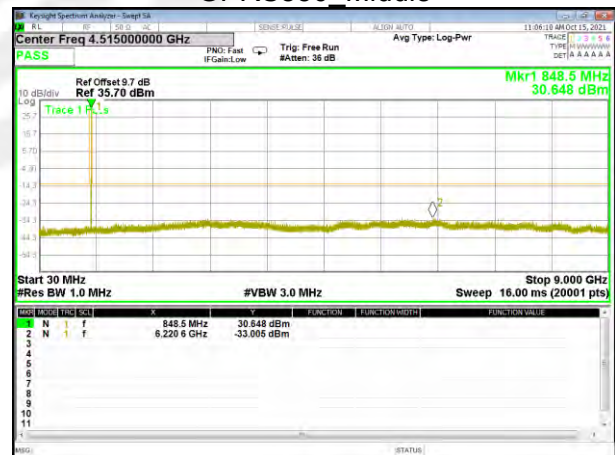
GSM850 Middle



GPRS850 Middle



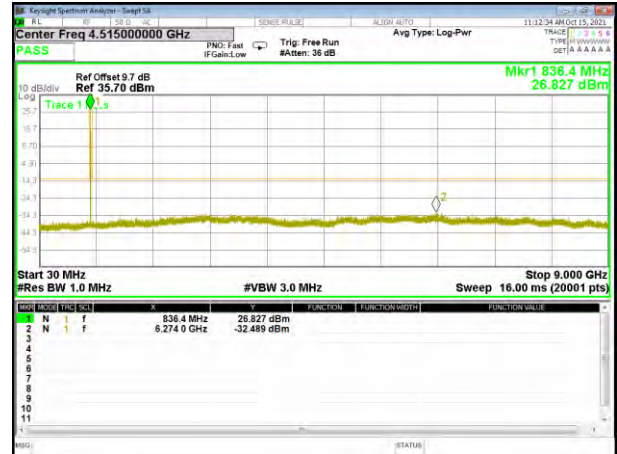
GSM850 High



GPRS850 High



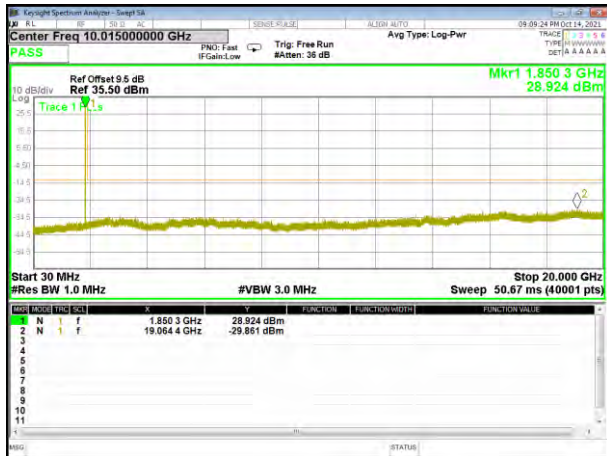
EGPRS850_Low



EGPRS850_Middle



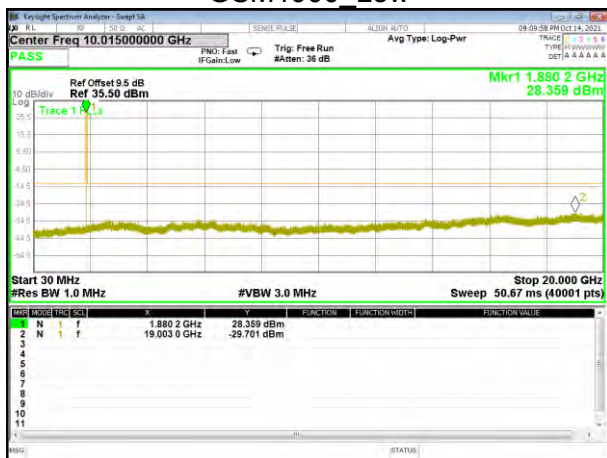
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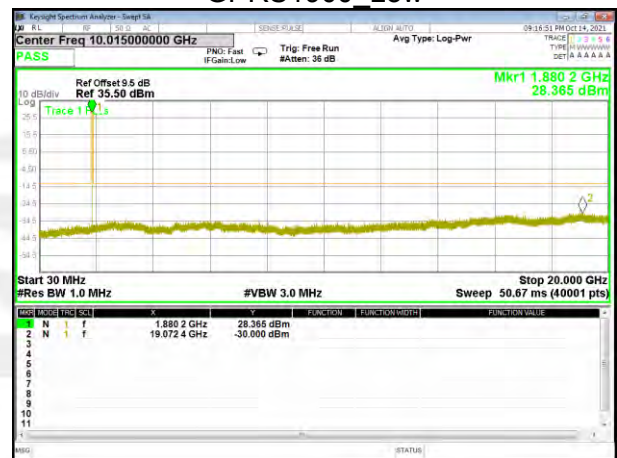
GSM1900_Low



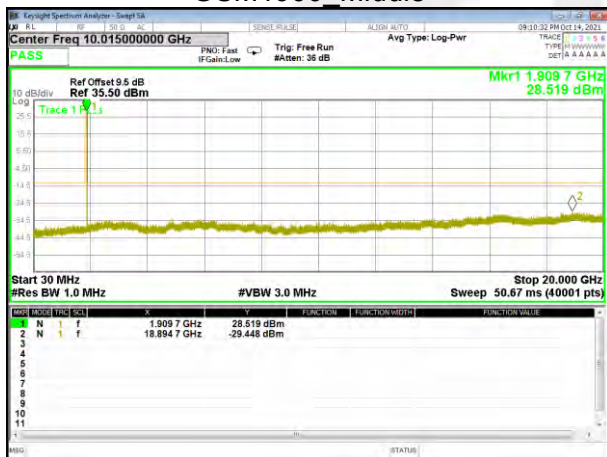
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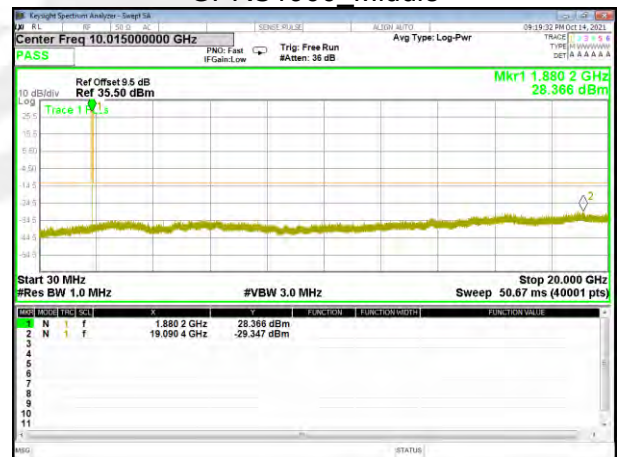
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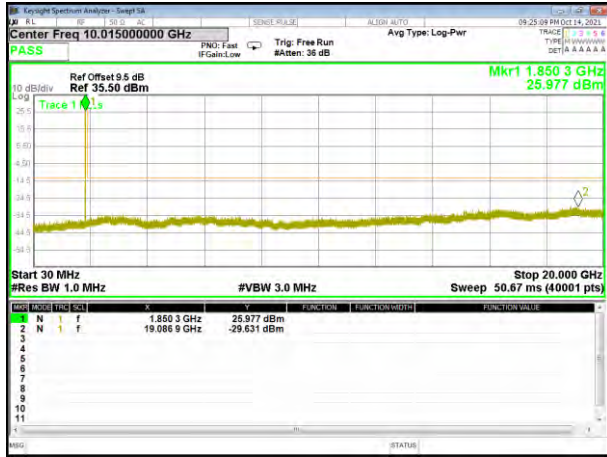
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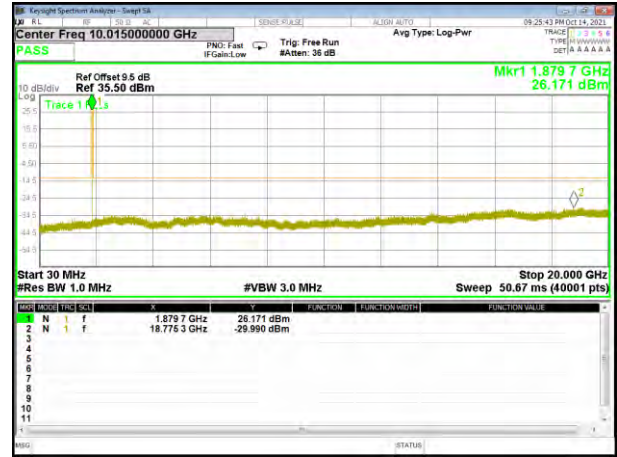
GSM1900_High



GPRS1900_High



EGPRS1900_Low



EGPRS1900_Middle



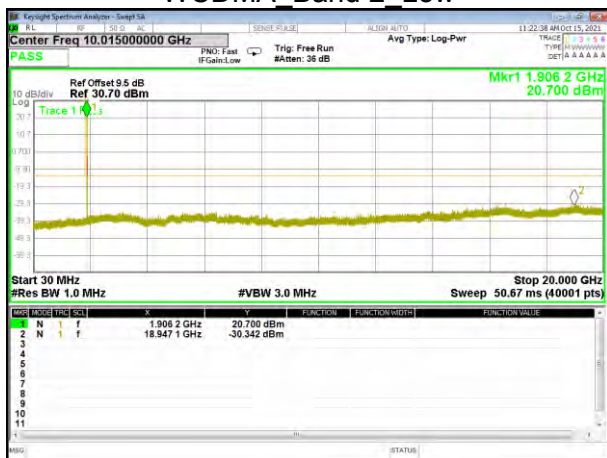
EGPRS1900_High



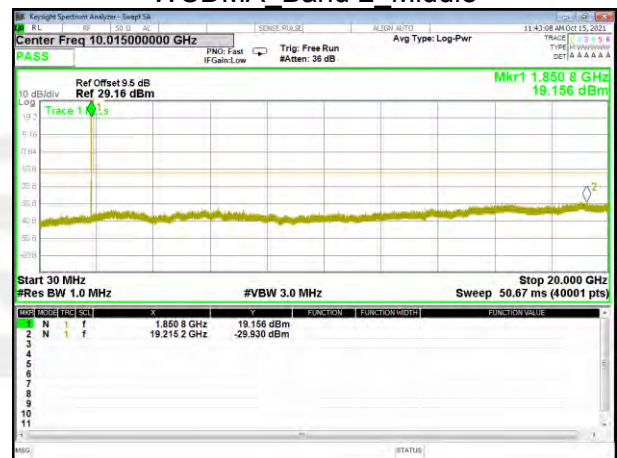
WCDMA Band 2 Low



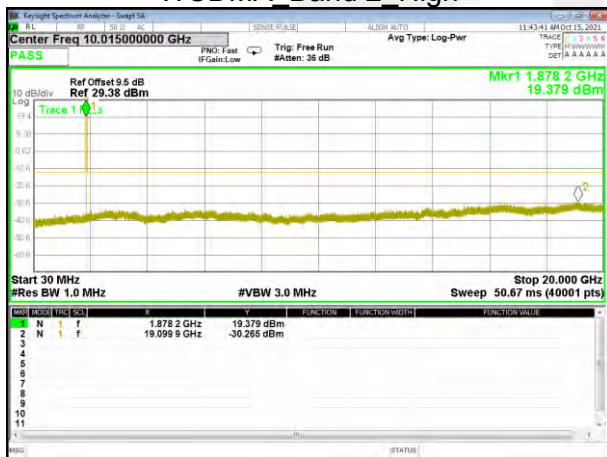
WCDMA Band 2 Middle



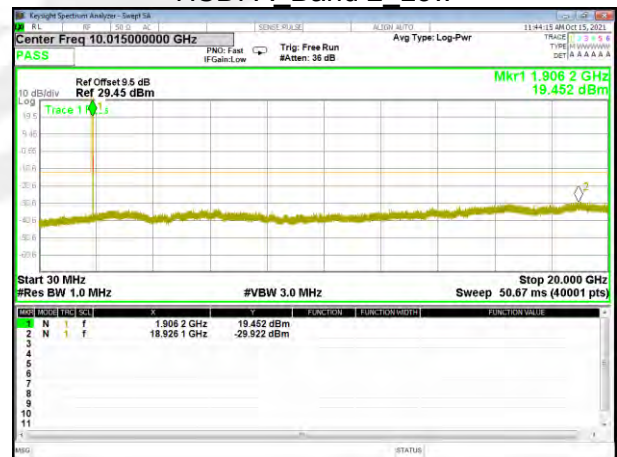
WCDMA Band 2 High



HSDPA Band 2 Low



HSDPA_Band 2_Middle



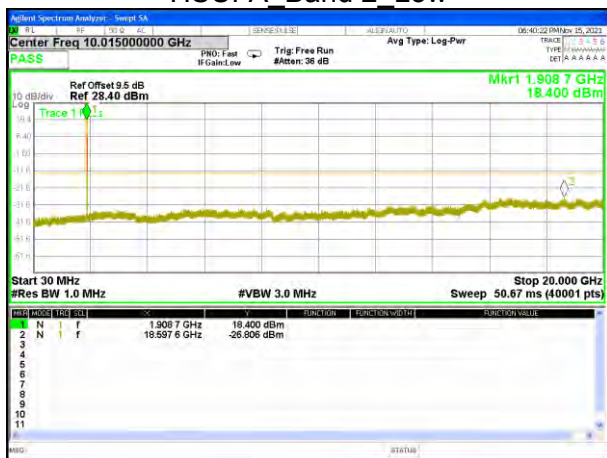
HSDPA_Band 2_High



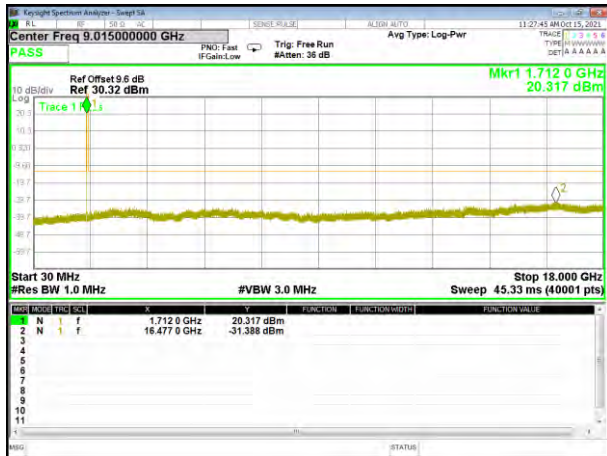
HSUPA_Band 2_Low



HSUPA_Band 2_Middle



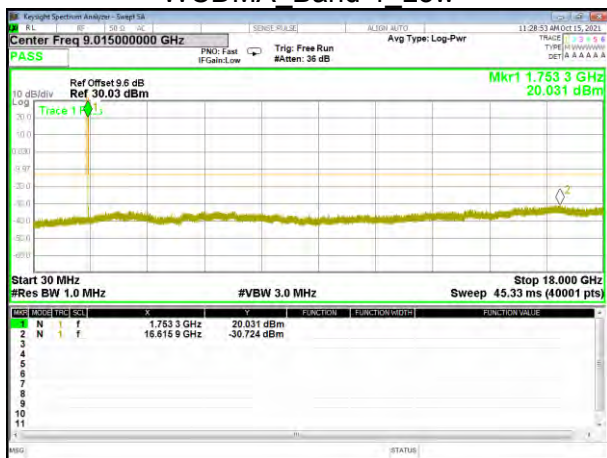
HSUPA_Band 2_High



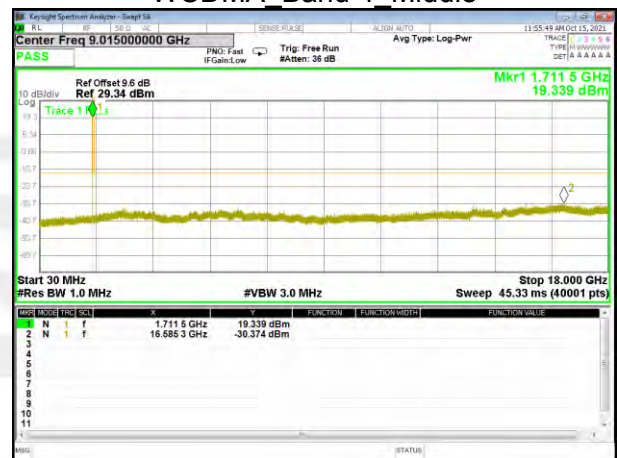
WCDMA Band 4 Low



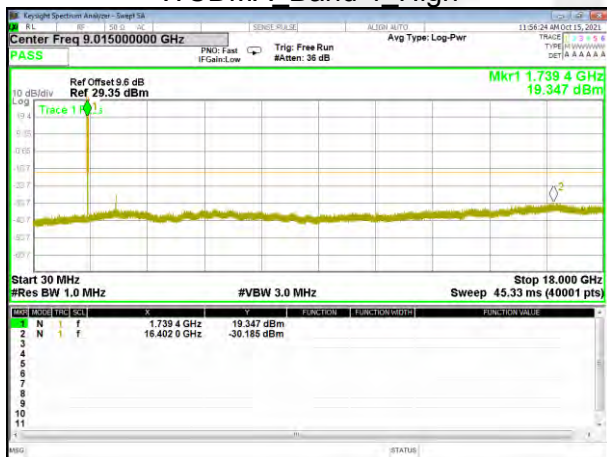
WCDMA Band 4 Middle



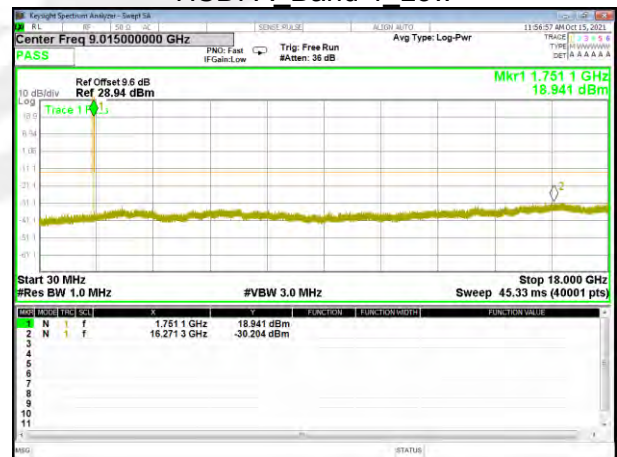
WCDMA Band 4 High



HSDPA Band 4 Low



HSDPA_Band 4_Middle



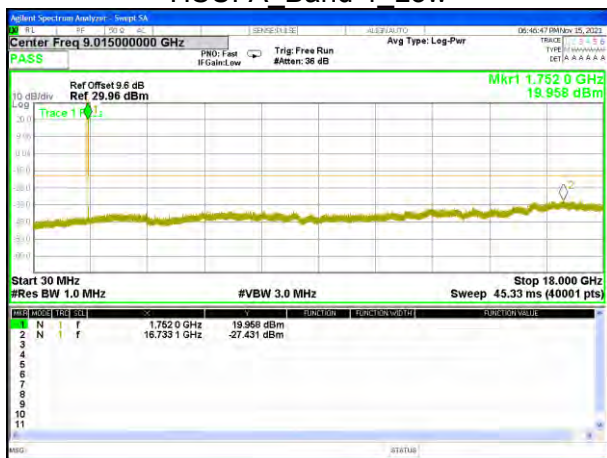
HSDPA_Band 4_High



HSUPA_Band 4_Low



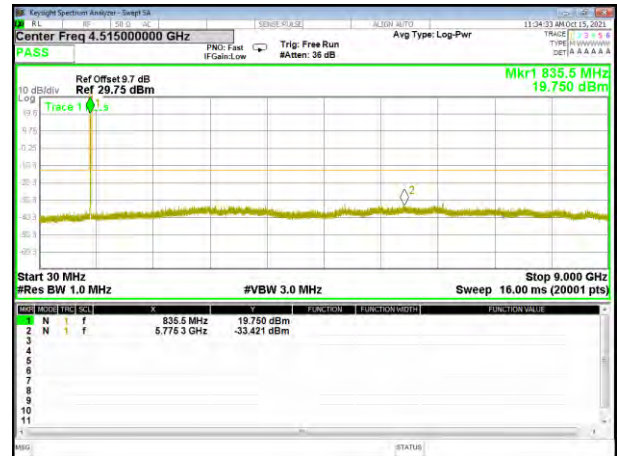
HSUPA_Band 4_Middle



HSUPA_Band 4_High



WCDMA Band 5 Low



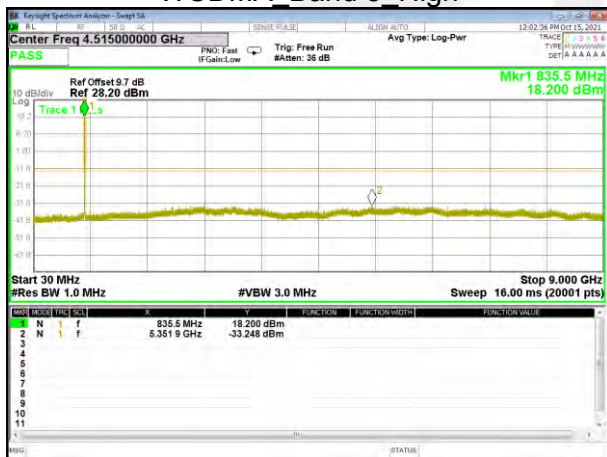
WCDMA Band 5 Middle



WCDMA Band 5 High



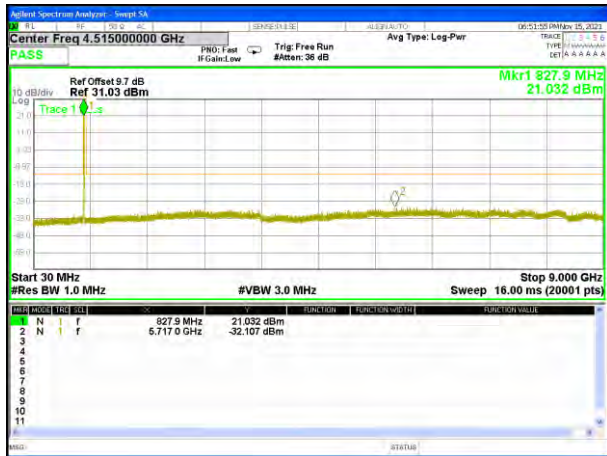
HSDPA Band 5 Low



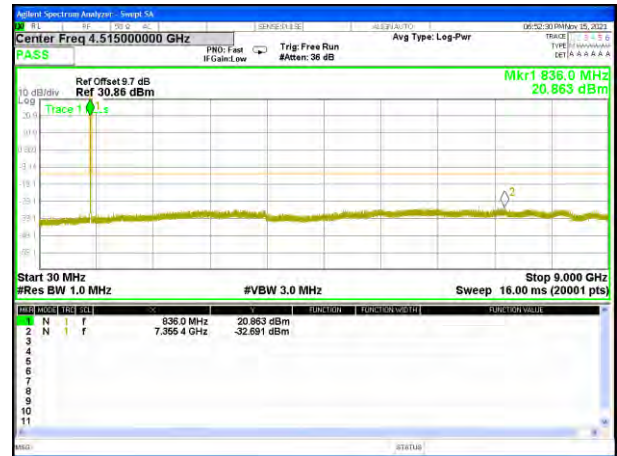
HSDPA_Band 5_Middle



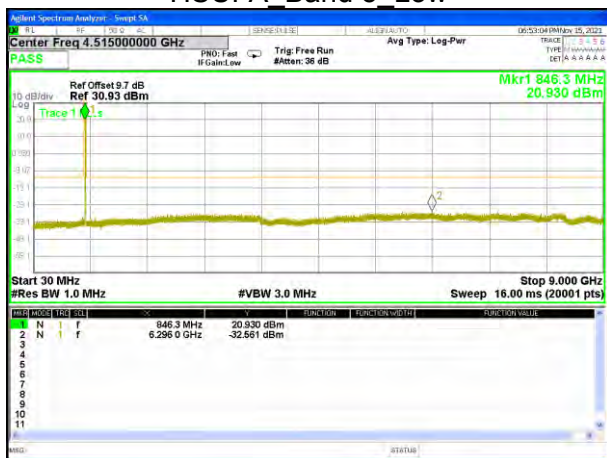
HSDPA_Band 5_High



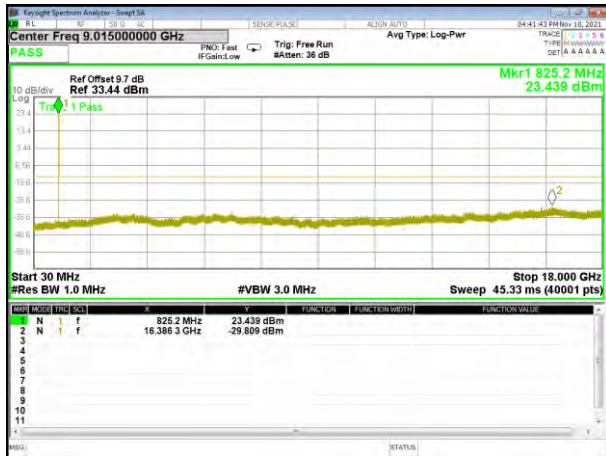
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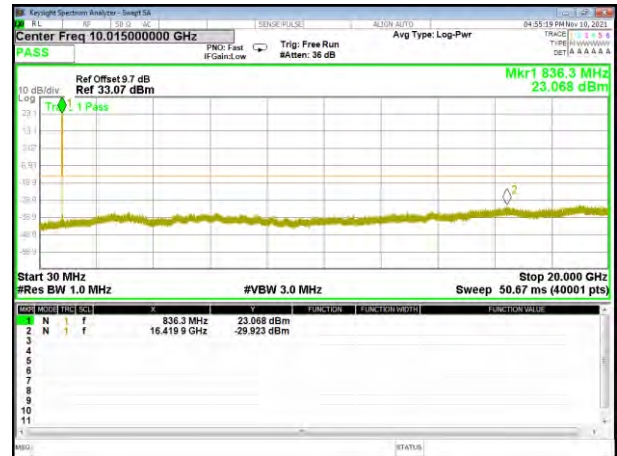
HSUPA_Band 5_Middle



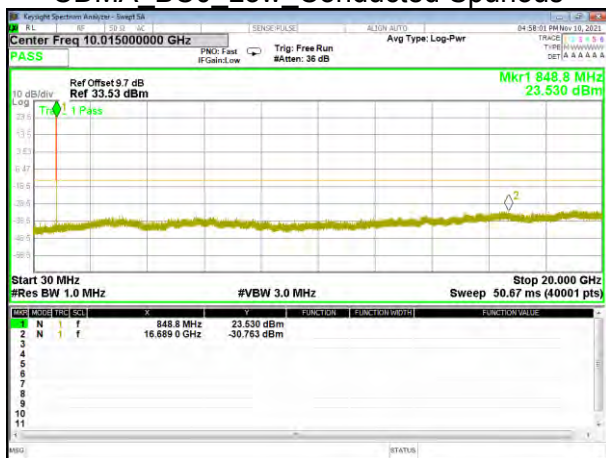
HSUPA_Band 5_High



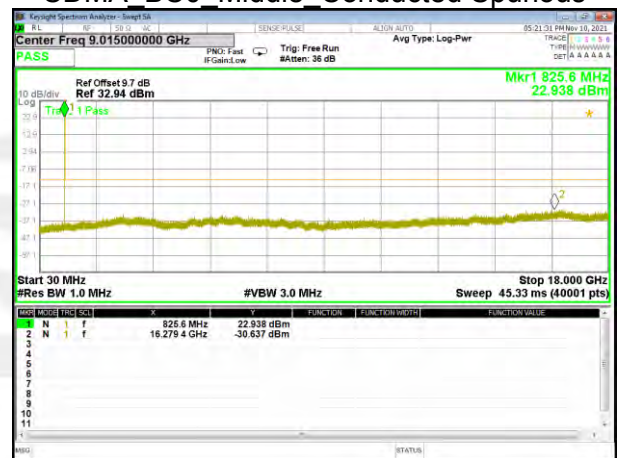
CDMA BC0 Low Conducted Spurious



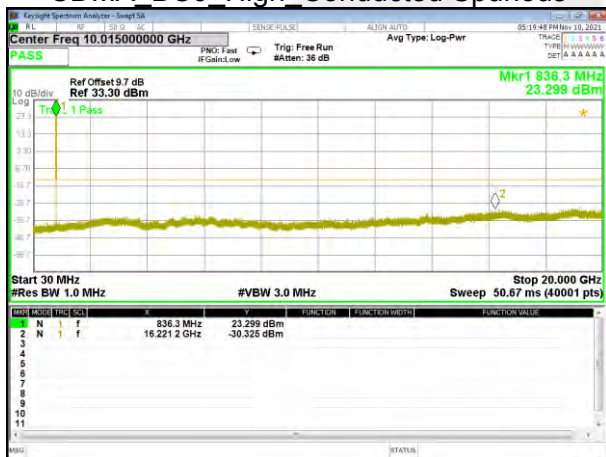
CDMA BC0 Middle Conducted Spurious



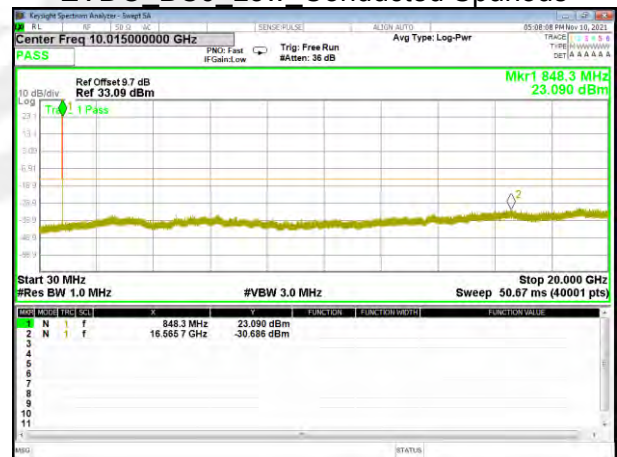
CDMA BC0 High Conducted Spurious



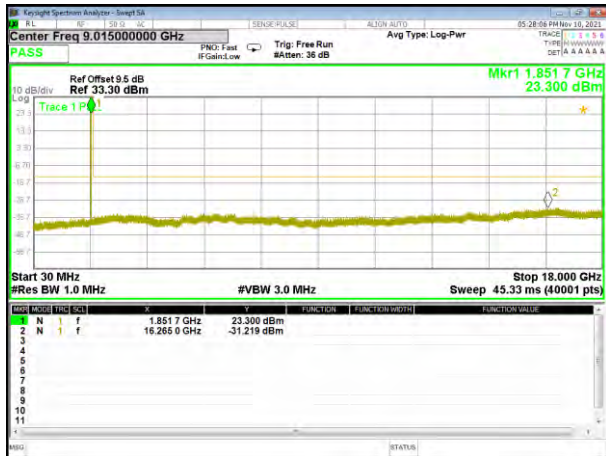
EVDO BC0 Low Conducted Spurious



EVDO BC0 Middle Conducted Spurious



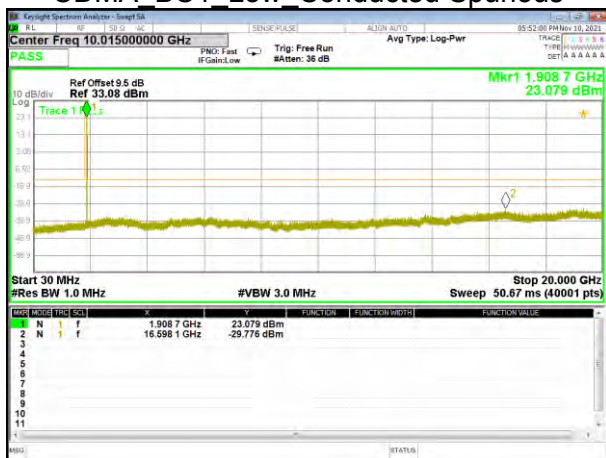
EVDO BC0 High Conducted Spurious



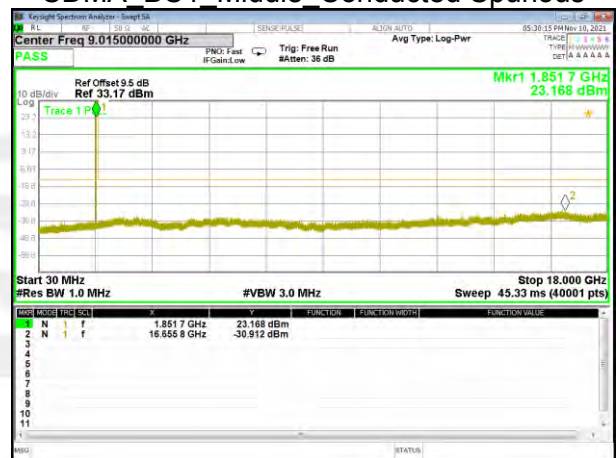
CDMA BC1_Low Conducted Spurious



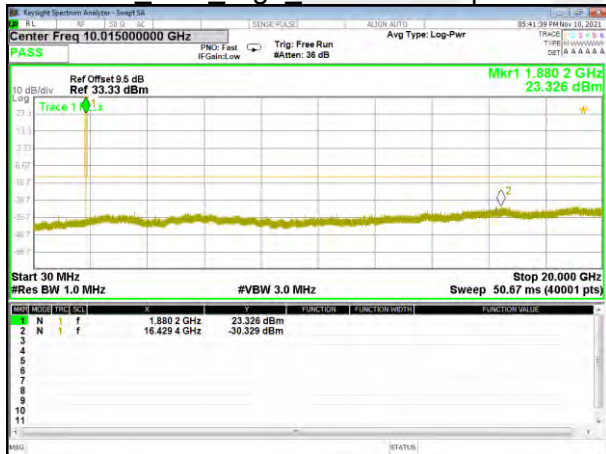
CDMA BC1_Middle Conducted Spurious



CDMA BC1_High Conducted Spurious



EVDO BC1_Low Conducted Spurious



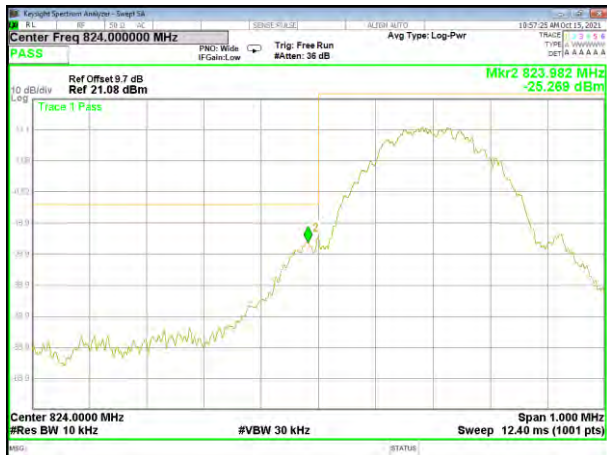
EVDO_BC1_Middle Conducted Spurious



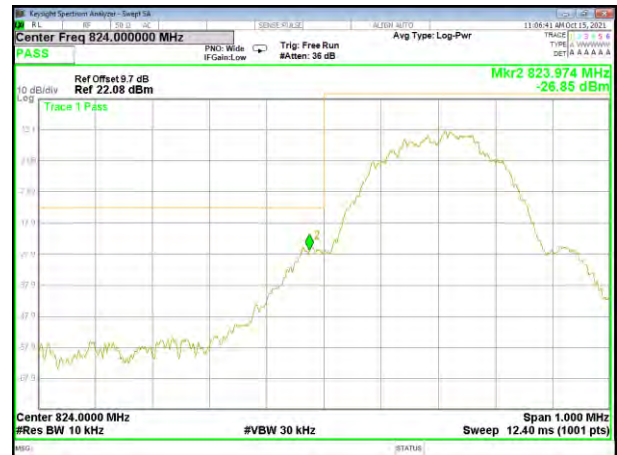
EVDO_BC1_High Conducted Spurious



A6. BAND EDGE



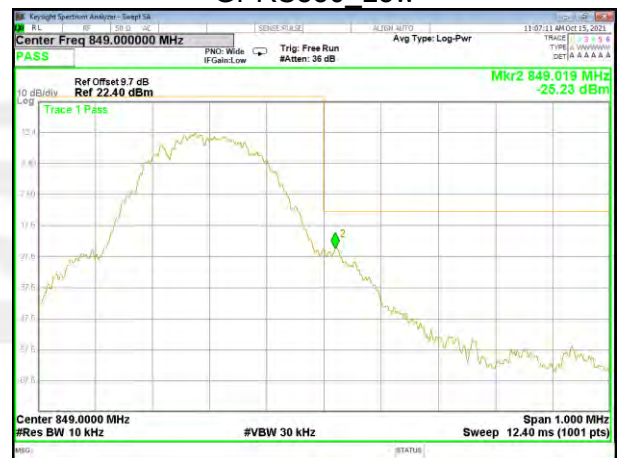
GSM850_Low



GPRS850_Low



GSM850_High



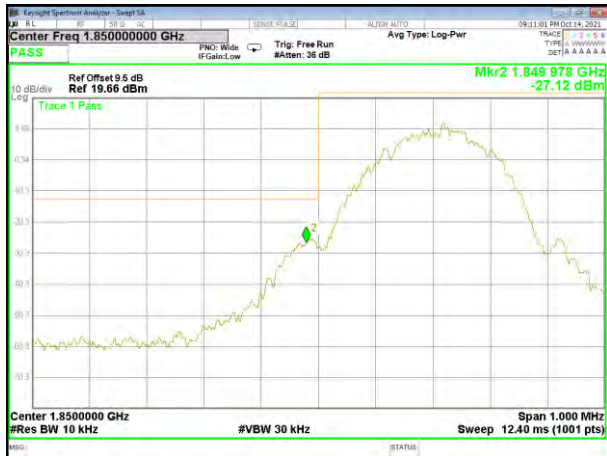
GPRS850_High



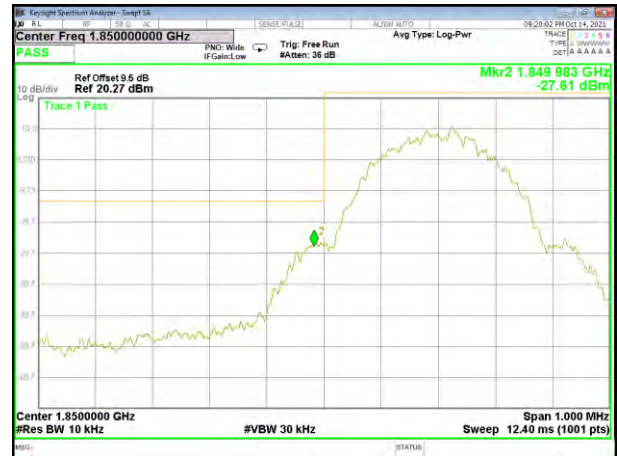
EGPRS850_Low



EGPRS850_High



GSM1900_Low



GPRS1900_Low



GSM1900_High



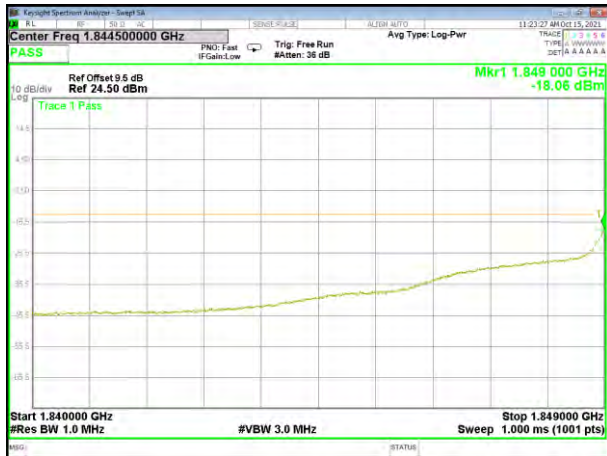
GPRS1900_High



EGPRS1900_Low



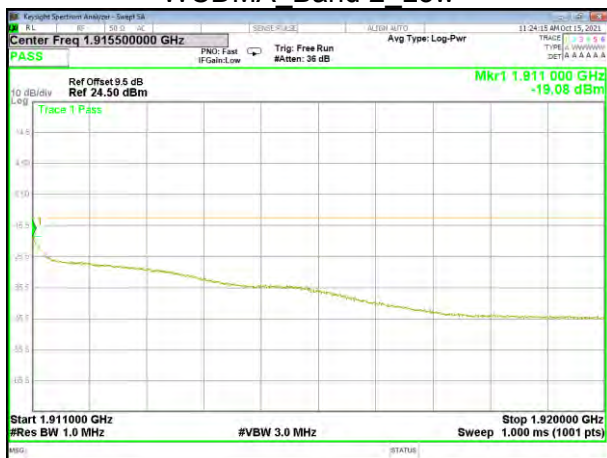
EGPRS1900_High



WCDMA_Band 2_Low



WCDMA_Band 2_Low



WCDMA_Band 2_High



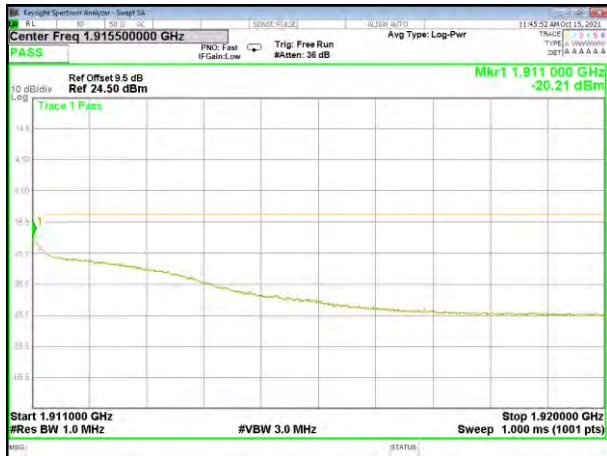
WCDMA_Band 2_High



HSDPA_Band 2_Low



HSDPA_Band 2_Low



HSDPA_Band 2_High



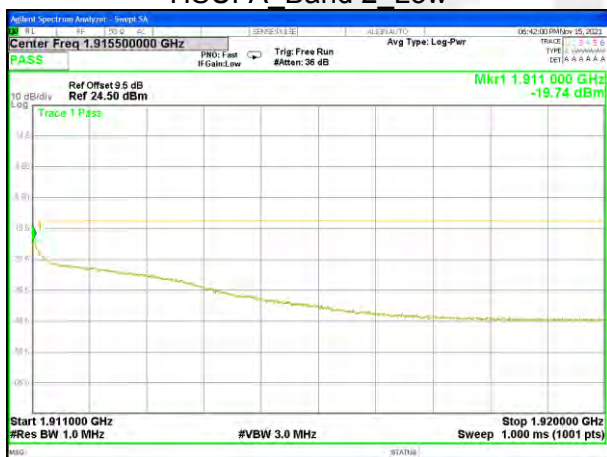
HSDPA_Band 2_High



HSDPA_Band 2_High



HSDPA_Band 2_High



HSDPA_Band 2_High



HSDPA_Band 2_High



WCDMA_Band 4_Low



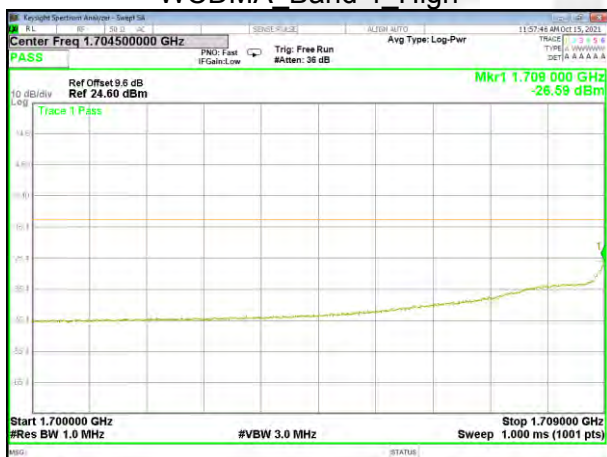
WCDMA_Band 4_Low



WCDMA_Band 4_High



WCDMA_Band 4_High



HSDPA_Band 4_Low



HSDPA_Band 4_Low



HSDPA_Band 4_High



HSDPA_Band 4_High



HSUPA_Band 4_Low



HSUPA_Band 4_Low



HSUPA_Band 4_High



HSUPA_Band 4_High



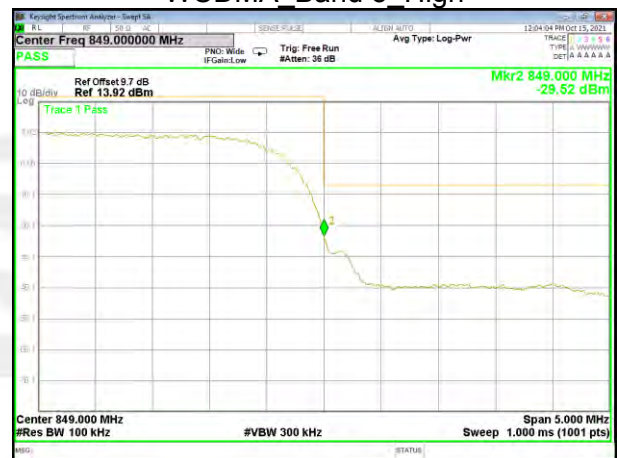
WCDMA_Band 5_Low



WCDMA_Band 5_High



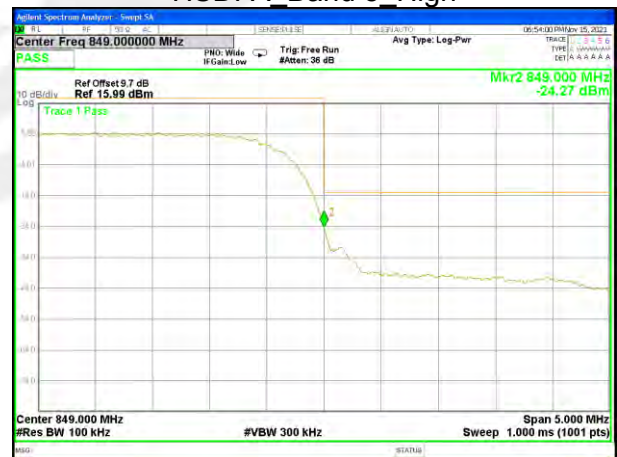
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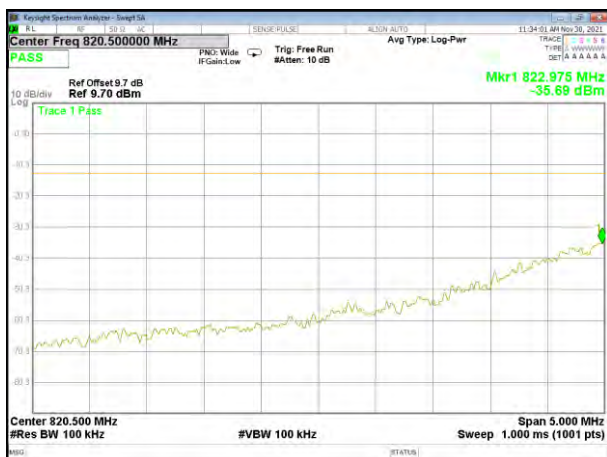
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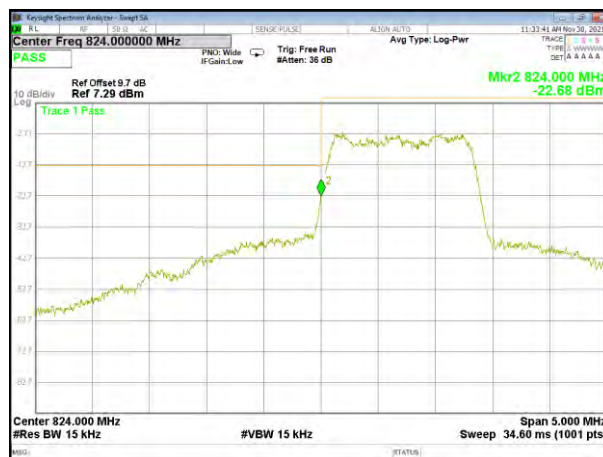
HSUPA_Band 5_Low



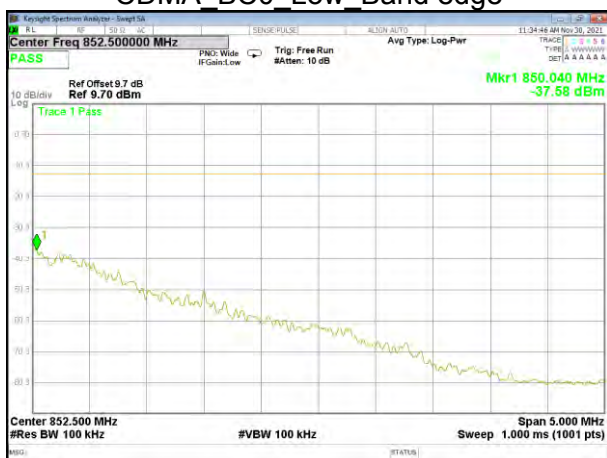
HSUPA_Band 5_High



CDMA BC0 Low Band edge



CDMA BC0 Low Band edge



CDMA BC0 High Band edge



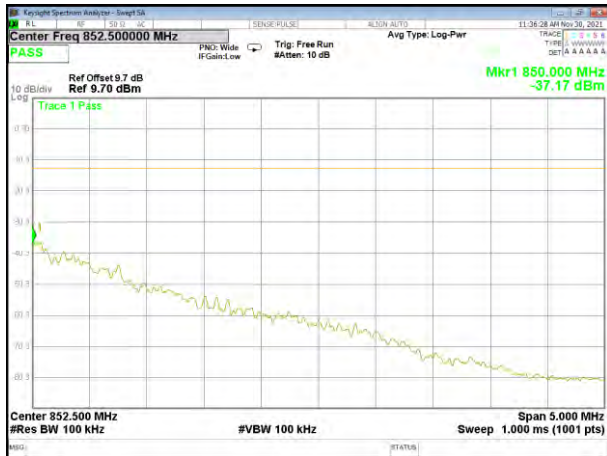
CDMA BC0 High Band edge



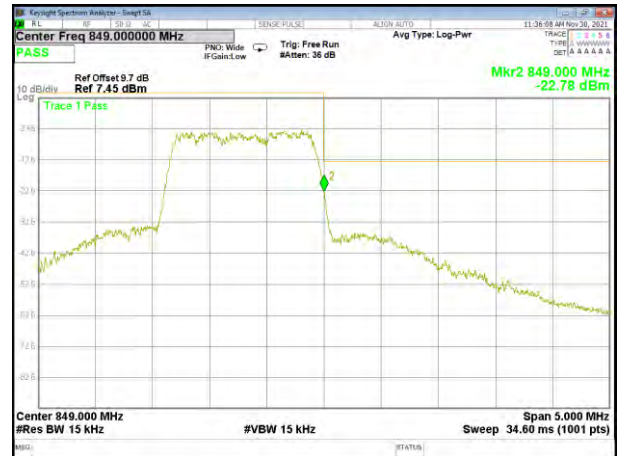
EVDO_BC0_Low_Band edge



EVDO_BC0_Low_Band edge



EVDO BC0 High Band edge



EVDO BC0 High Band edge



CDMA BC1 Low Band edge



CDMA BC1 Low Band edge



CDMA BC1 High Band edge



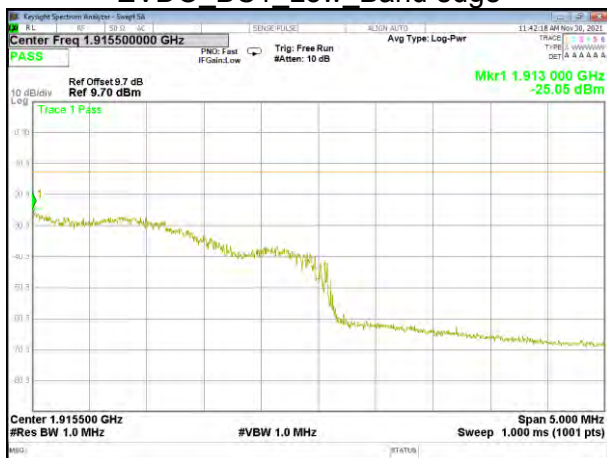
CDMA BC1 High Band edge



EVDO BC1 Low Band edge



EVDO BC1 Low Band edge



EVDO BC1 High Band edge



EVDO BC1 High Band edge



A7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(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
1648.37	-40.98	9.40	4.75	-36.33	-13.00	-23.33	H
2472.33	-39.25	10.60	8.39	-37.04	-13.00	-24.04	H
3296.68	-32.18	12.00	11.79	-31.97	-13.00	-18.97	H
1648.41	-44.08	9.40	4.75	-39.43	-13.00	-26.43	V
2472.67	-45.22	10.60	8.39	-43.01	-13.00	-30.01	V
3296.50	-42.77	12.00	11.79	-42.56	-13.00	-29.56	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
1672.81	-41.36	9.50	4.76	-36.62	-13.00	-23.62	H
2509.77	-39.58	10.70	8.40	-37.28	-13.00	-24.28	H
3346.41	-32.19	12.20	11.80	-31.79	-13.00	-18.79	H
1673.26	-44.15	9.40	4.75	-39.50	-13.00	-26.50	V
2509.65	-45.04	10.60	8.39	-42.83	-13.00	-29.83	V
3346.22	-43.49	12.20	11.82	-43.11	-13.00	-30.11	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
1697.41	-40.95	9.60	4.77	-36.12	-13.00	-23.12	H
2546.34	-40.39	10.80	8.50	-38.09	-13.00	-25.09	H
3395.13	-31.14	12.50	11.90	-30.54	-13.00	-17.54	H
1697.47	-44.38	9.60	4.77	-39.55	-13.00	-26.55	V
2546.27	-45.32	10.80	8.50	-43.02	-13.00	-30.02	V
3395.25	-43.06	12.50	11.90	-42.46	-13.00	-29.46	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
1697.57	-41.26	9.40	4.75	-36.61	-13.00	-23.61	H
2546.39	-39.47	10.60	8.39	-37.26	-13.00	-24.26	H
3395.10	-30.93	12.00	11.79	-30.72	-13.00	-17.72	H
1697.61	-44.57	9.40	4.75	-39.92	-13.00	-26.92	V
2546.52	-44.27	10.60	8.39	-42.06	-13.00	-29.06	V
3395.14	-43.27	12.00	11.79	-43.06	-13.00	-30.06	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
1672.82	-41.22	9.50	4.76	-36.48	-13.00	-23.48	H
2509.54	-39.53	10.70	8.40	-37.23	-13.00	-24.23	H
3346.31	-31.53	12.20	11.80	-31.13	-13.00	-18.13	H
1672.83	-43.66	9.40	4.75	-39.01	-13.00	-26.01	V
2509.90	-44.84	10.60	8.39	-42.63	-13.00	-29.63	V
3346.04	-43.03	12.20	11.82	-42.65	-13.00	-29.65	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
1697.57	-40.74	9.60	4.77	-35.91	-13.00	-22.91	H
2546.55	-40.21	10.80	8.50	-37.91	-13.00	-24.91	H
3395.31	-31.82	12.50	11.90	-31.22	-13.00	-18.22	H
1697.29	-43.87	9.60	4.77	-39.04	-13.00	-26.04	V
2546.42	-44.69	10.80	8.50	-42.39	-13.00	-29.39	V
3395.13	-43.42	12.50	11.90	-42.82	-13.00	-29.82	V



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 (dBm)	Polarity
1648.25	-40.54	9.40	4.75	-35.89	-13.00	-22.89	H
2472.23	-40.39	10.60	8.39	-38.18	-13.00	-25.18	H
3296.72	-32.16	12.00	11.79	-31.95	-13.00	-18.95	H
1648.29	-43.58	9.40	4.75	-38.93	-13.00	-25.93	V
2472.40	-44.09	10.60	8.39	-41.88	-13.00	-28.88	V
3296.56	-42.98	12.00	11.79	-42.77	-13.00	-29.77	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
1672.88	-41.35	9.50	4.76	-36.61	-13.00	-23.61	H
2509.59	-39.76	10.70	8.40	-37.46	-13.00	-24.46	H
3345.98	-31.25	12.20	11.80	-30.85	-13.00	-17.85	H
1673.18	-44.06	9.40	4.75	-39.41	-13.00	-26.41	V
2509.70	-44.59	10.60	8.39	-42.38	-13.00	-29.38	V
3346.14	-43.43	12.20	11.82	-43.05	-13.00	-30.05	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
1697.57	-41.26	9.60	4.77	-36.43	-13.00	-23.43	H
2546.39	-39.47	10.80	8.50	-37.17	-13.00	-24.17	H
3395.10	-30.93	12.50	11.90	-30.33	-13.00	-17.33	H
1697.61	-44.57	9.60	4.77	-39.74	-13.00	-26.74	V
2546.52	-44.27	10.80	8.50	-41.97	-13.00	-28.97	V
3395.14	-43.27	12.50	11.90	-42.67	-13.00	-29.67	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
3700.20	-33.63	12.60	12.93	-33.96	-13.00	-20.96	H
5550.37	-34.26	13.10	17.11	-38.27	-13.00	-25.27	H
7400.83	-33.40	11.50	22.20	-44.10	-13.00	-31.10	H
3700.11	-34.64	12.60	12.93	-34.97	-13.00	-21.97	V
5550.57	-35.00	13.10	17.11	-39.01	-13.00	-26.01	V
7400.94	-32.27	11.50	22.20	-42.97	-13.00	-29.97	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
3760.02	-34.06	12.60	12.93	-34.39	-13.00	-21.39	H
5640.01	-35.10	13.10	17.11	-39.11	-13.00	-26.11	H
7519.82	-32.38	11.50	22.20	-43.08	-13.00	-30.08	H
3760.30	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V
5640.13	-33.93	13.10	17.11	-37.94	-13.00	-24.94	V
7519.99	-33.15	11.50	22.20	-43.85	-13.00	-30.85	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
3819.58	-33.54	12.60	12.93	-33.87	-13.00	-20.87	H
5729.01	-35.04	13.10	17.11	-39.05	-13.00	-26.05	H
7639.27	-33.22	11.50	22.20	-43.92	-13.00	-30.92	H
3819.79	-35.04	12.60	12.93	-35.37	-13.00	-22.37	V
5729.14	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7638.97	-32.05	11.50	22.20	-42.75	-13.00	-29.75	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
3700.35	-33.86	12.60	12.93	-34.19	-13.00	-21.19	H
5550.56	-34.97	13.10	17.11	-38.98	-13.00	-25.98	H
7400.48	-33.64	11.50	22.20	-44.34	-13.00	-31.34	H
3700.15	-34.76	12.60	12.93	-35.09	-13.00	-22.09	V
5550.32	-34.39	13.10	17.11	-38.40	-13.00	-25.40	V
7400.60	-33.00	11.50	22.20	-43.70	-13.00	-30.70	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
3760.23	-34.69	12.60	12.93	-35.02	-13.00	-22.02	H
5640.22	-35.18	13.10	17.11	-39.19	-13.00	-26.19	H
7520.11	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3760.05	-34.97	12.60	12.93	-35.30	-13.00	-22.30	V
5640.12	-34.19	13.10	17.11	-38.20	-13.00	-25.20	V
7519.86	-32.15	11.50	22.20	-42.85	-13.00	-29.85	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
3819.59	-34.83	12.60	12.93	-35.16	-13.00	-22.16	H
5729.07	-35.35	13.10	17.11	-39.36	-13.00	-26.36	H
7639.30	-33.43	11.50	22.20	-44.13	-13.00	-31.13	H
3819.31	-35.75	12.60	12.93	-36.08	-13.00	-23.08	V
5729.15	-34.98	13.10	17.11	-38.99	-13.00	-25.99	V
7639.03	-32.94	11.50	22.20	-43.64	-13.00	-30.64	V



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 (dBm)	Polarity
3700.26	-33.44	12.60	12.93	-33.77	-13.00	-20.77	H
5550.33	-34.50	13.10	17.11	-38.51	-13.00	-25.51	H
7400.60	-33.29	11.50	22.20	-43.99	-13.00	-30.99	H
3700.44	-35.82	12.60	12.93	-36.15	-13.00	-23.15	V
5550.57	-35.05	13.10	17.11	-39.06	-13.00	-26.06	V
7400.92	-31.85	11.50	22.20	-42.55	-13.00	-29.55	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
3760.07	-33.56	12.60	12.93	-33.89	-13.00	-20.89	H
5640.24	-34.52	13.10	17.11	-38.53	-13.00	-25.53	H
7519.92	-32.67	11.50	22.20	-43.37	-13.00	-30.37	H
3760.28	-35.82	12.60	12.93	-36.15	-13.00	-23.15	V
5640.32	-34.12	13.10	17.11	-38.13	-13.00	-25.13	V
7520.21	-32.17	11.50	22.20	-42.87	-13.00	-29.87	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
3819.30	-34.61	12.60	12.93	-34.94	-13.00	-21.94	H
5729.36	-34.65	13.10	17.11	-38.66	-13.00	-25.66	H
7639.07	-32.32	11.50	22.20	-43.02	-13.00	-30.02	H
3819.53	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5729.30	-34.71	13.10	17.11	-38.72	-13.00	-25.72	V
7639.20	-32.74	11.50	22.20	-43.44	-13.00	-30.44	V



WCDMA Band 5: (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
1652.07	-40.45	9.40	4.75	-35.80	-13.00	-22.80	H
2479.60	-39.22	10.60	8.39	-37.01	-13.00	-24.01	H
3305.81	-31.45	12.00	11.79	-31.24	-13.00	-18.24	H
1652.35	-43.24	9.40	4.75	-38.59	-13.00	-25.59	V
2479.57	-44.15	10.60	8.39	-41.94	-13.00	-28.94	V
3305.52	-43.63	12.00	11.79	-43.42	-13.00	-30.42	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
1673.04	-41.58	9.40	4.75	-36.93	-13.00	-23.93	H
2509.61	-40.17	10.60	8.39	-37.96	-13.00	-24.96	H
3346.23	-32.11	12.00	11.79	-31.90	-13.00	-18.90	H
1673.24	-43.43	9.40	4.75	-38.78	-13.00	-25.78	V
2509.76	-44.42	10.60	8.39	-42.21	-13.00	-29.21	V
3346.11	-43.94	12.00	11.79	-43.73	-13.00	-30.73	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
1693.51	-41.20	9.40	4.75	-36.55	-13.00	-23.55	H
2539.13	-39.25	10.60	8.39	-37.04	-13.00	-24.04	H
3386.30	-31.51	12.00	11.79	-31.30	-13.00	-18.30	H
1693.52	-43.38	9.40	4.75	-38.73	-13.00	-25.73	V
2539.11	-44.37	10.60	8.39	-42.16	-13.00	-29.16	V
3386.17	-43.14	12.00	11.79	-42.93	-13.00	-29.93	V



HSUPA Band 5: (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
1652.04	-40.35	9.40	4.75	-35.70	-13.00	-22.70	H
2479.35	-39.35	10.60	8.39	-37.14	-13.00	-24.14	H
3305.67	-32.06	12.00	11.79	-31.85	-13.00	-18.85	H
1652.19	-43.54	9.40	4.75	-38.89	-13.00	-25.89	V
2479.25	-44.53	10.60	8.39	-42.32	-13.00	-29.32	V
3305.54	-43.61	12.00	11.79	-43.40	-13.00	-30.40	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
1673.12	-40.49	9.40	4.75	-35.84	-13.00	-22.84	H
2509.76	-39.70	10.60	8.39	-37.49	-13.00	-24.49	H
3346.38	-31.45	12.00	11.79	-31.24	-13.00	-18.24	H
1672.85	-44.11	9.40	4.75	-39.46	-13.00	-26.46	V
2509.84	-44.99	10.60	8.39	-42.78	-13.00	-29.78	V
3346.35	-43.51	12.00	11.79	-43.30	-13.00	-30.30	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
1693.53	-40.14	9.40	4.75	-35.49	-13.00	-22.49	H
2539.36	-39.85	10.60	8.39	-37.64	-13.00	-24.64	H
3386.15	-32.20	12.00	11.79	-31.99	-13.00	-18.99	H
1693.32	-43.34	9.40	4.75	-38.69	-13.00	-25.69	V
2539.47	-44.95	10.60	8.39	-42.74	-13.00	-29.74	V
3385.96	-43.67	12.00	11.79	-43.46	-13.00	-30.46	V



HSDPA Band 5: (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
1652.21	-40.17	9.40	4.75	-35.52	-13.00	-22.52	H
2479.62	-40.17	10.60	8.39	-37.96	-13.00	-24.96	H
3305.59	-31.26	12.00	11.79	-31.05	-13.00	-18.05	H
1652.11	-44.01	9.40	4.75	-39.36	-13.00	-26.36	V
2479.50	-44.00	10.60	8.39	-41.79	-13.00	-28.79	V
3305.49	-43.64	12.00	11.79	-43.43	-13.00	-30.43	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
1673.25	-41.28	9.40	4.75	-36.63	-13.00	-23.63	H
2509.91	-40.18	10.60	8.39	-37.97	-13.00	-24.97	H
3346.05	-31.74	12.00	11.79	-31.53	-13.00	-18.53	H
1673.00	-44.07	9.40	4.75	-39.42	-13.00	-26.42	V
2509.84	-44.14	10.60	8.39	-41.93	-13.00	-28.93	V
3346.29	-42.59	12.00	11.79	-42.38	-13.00	-29.38	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
1693.28	-41.62	9.40	4.75	-36.97	-13.00	-23.97	H
2539.31	-40.64	10.60	8.39	-38.43	-13.00	-25.43	H
3385.84	-31.20	12.00	11.79	-30.99	-13.00	-17.99	H
1693.67	-43.96	9.40	4.75	-39.31	-13.00	-26.31	V
2539.37	-44.17	10.60	8.39	-41.96	-13.00	-28.96	V
3385.90	-43.61	12.00	11.79	-43.40	-13.00	-30.40	V



WCDMA Band 2: (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
3704.08	-33.97	12.60	12.93	-34.30	-13.00	-21.30	H
5557.46	-35.32	13.10	17.11	-39.33	-13.00	-26.33	H
7409.81	-33.46	11.50	22.20	-44.16	-13.00	-31.16	H
3704.15	-35.03	12.60	12.93	-35.36	-13.00	-22.36	V
5557.48	-34.68	13.10	17.11	-38.69	-13.00	-25.69	V
7409.74	-32.00	11.50	22.20	-42.70	-13.00	-29.70	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
3760.00	-34.82	12.60	12.93	-35.15	-13.00	-22.15	H
5640.13	-34.96	13.10	17.11	-38.97	-13.00	-25.97	H
7519.86	-33.48	11.50	22.20	-44.18	-13.00	-31.18	H
3760.27	-35.30	12.60	12.93	-35.63	-13.00	-22.63	V
5639.89	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7520.24	-32.09	11.50	22.20	-42.79	-13.00	-29.79	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
3815.55	-33.90	12.60	12.93	-34.23	-13.00	-21.23	H
5722.22	-35.39	13.10	17.11	-39.40	-13.00	-26.40	H
7630.20	-32.24	11.50	22.20	-42.94	-13.00	-29.94	H
3815.59	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5722.20	-35.19	13.10	17.11	-39.20	-13.00	-26.20	V
7630.17	-32.56	11.50	22.20	-43.26	-13.00	-30.26	V



HSUPA Band 2: (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
3704.32	-34.23	12.60	12.93	-34.56	-13.00	-21.56	H
5557.66	-34.47	13.10	17.11	-38.48	-13.00	-25.48	H
7409.79	-33.63	11.50	22.20	-44.33	-13.00	-31.33	H
3704.17	-35.48	12.60	12.93	-35.81	-13.00	-22.81	V
5557.60	-34.43	13.10	17.11	-38.44	-13.00	-25.44	V
7409.53	-33.20	11.50	22.20	-43.90	-13.00	-30.90	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
3759.81	-33.45	12.60	12.93	-33.78	-13.00	-20.78	H
5639.91	-35.14	13.10	17.11	-39.15	-13.00	-26.15	H
7519.90	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3760.28	-34.89	12.60	12.93	-35.22	-13.00	-22.22	V
5639.96	-34.95	13.10	17.11	-38.96	-13.00	-25.96	V
7519.95	-32.46	11.50	22.20	-43.16	-13.00	-30.16	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
3815.56	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5722.43	-34.74	13.10	17.11	-38.75	-13.00	-25.75	H
7630.28	-33.05	11.50	22.20	-43.75	-13.00	-30.75	H
3815.25	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5722.41	-33.81	13.10	17.11	-37.82	-13.00	-24.82	V
7630.15	-32.90	11.50	22.20	-43.60	-13.00	-30.60	V



HSDPA Band 2: (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
3704.42	-34.90	12.60	12.93	-35.23	-13.00	-22.23	H
5557.37	-35.29	13.10	17.11	-39.30	-13.00	-26.30	H
7409.53	-33.17	11.50	22.20	-43.87	-13.00	-30.87	H
3704.03	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5557.22	-34.79	13.10	17.11	-38.80	-13.00	-25.80	V
7409.55	-32.76	11.50	22.20	-43.46	-13.00	-30.46	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
3759.98	-34.49	12.60	12.93	-34.82	-13.00	-21.82	H
5640.26	-35.13	13.10	17.11	-39.14	-13.00	-26.14	H
7520.14	-33.08	11.50	22.20	-43.78	-13.00	-30.78	H
3759.93	-34.88	12.60	12.93	-35.21	-13.00	-22.21	V
5639.94	-33.94	13.10	17.11	-37.95	-13.00	-24.95	V
7520.03	-32.43	11.50	22.20	-43.13	-13.00	-30.13	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
3815.26	-34.01	12.60	12.93	-34.34	-13.00	-21.34	H
5722.18	-35.42	13.10	17.11	-39.43	-13.00	-26.43	H
7630.00	-32.79	11.50	22.20	-43.49	-13.00	-30.49	H
3815.52	-34.60	12.60	12.93	-34.93	-13.00	-21.93	V
5722.17	-34.95	13.10	17.11	-38.96	-13.00	-25.96	V
7630.02	-32.67	11.50	22.20	-43.37	-13.00	-30.37	V



WCDMA Band 4: (30-18000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.12	-33.79	12.90	12.05	-32.94	-13.00	-19.94	H
5137.38	-35.42	12.80	16.27	-38.89	-13.00	-25.89	H
6850.07	-33.47	12.30	20.13	-41.30	-13.00	-28.30	H
3424.76	-34.91	12.90	12.05	-34.06	-13.00	-21.06	V
5137.31	-34.14	12.80	16.27	-37.61	-13.00	-24.61	V
6850.26	-32.84	12.30	20.13	-40.67	-13.00	-27.67	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3479.80	-34.08	12.90	12.05	-33.23	-13.00	-20.23	H
5219.56	-34.15	12.80	16.27	-37.62	-13.00	-24.62	H
6959.74	-32.24	12.30	20.13	-40.07	-13.00	-27.07	H
3479.93	-35.70	12.90	12.05	-34.85	-13.00	-21.85	V
5219.66	-33.86	12.80	16.27	-37.33	-13.00	-24.33	V
6959.59	-32.03	12.30	20.13	-39.86	-13.00	-26.86	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3504.76	-34.85	12.90	12.05	-34.00	-13.00	-21.00	H
5256.72	-34.69	12.80	16.27	-38.16	-13.00	-25.16	H
7009.27	-32.44	12.30	20.13	-40.27	-13.00	-27.27	H
3504.80	-34.97	12.90	12.05	-34.12	-13.00	-21.12	V
5256.96	-34.38	12.80	16.27	-37.85	-13.00	-24.85	V
7009.52	-31.75	12.30	20.13	-39.58	-13.00	-26.58	V



HSUPA Band 4: (30-18000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.79	-33.69	12.90	12.05	-32.84	-13.00	-19.84	H
5137.40	-35.48	12.80	16.27	-38.95	-13.00	-25.95	H
6850.22	-33.14	12.30	20.13	-40.97	-13.00	-27.97	H
3424.99	-35.30	12.90	12.05	-34.45	-13.00	-21.45	V
5137.32	-34.45	12.80	16.27	-37.92	-13.00	-24.92	V
6849.93	-31.72	12.30	20.13	-39.55	-13.00	-26.55	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3479.83	-33.76	12.90	12.05	-32.91	-13.00	-19.91	H
5219.90	-34.32	12.80	16.27	-37.79	-13.00	-24.79	H
6959.57	-32.95	12.30	20.13	-40.78	-13.00	-27.78	H
3479.93	-35.70	12.90	12.05	-34.85	-13.00	-21.85	V
5219.96	-33.95	12.80	16.27	-37.42	-13.00	-24.42	V
6959.75	-32.94	12.30	20.13	-40.77	-13.00	-27.77	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3504.31	-34.65	12.90	12.05	-33.80	-13.00	-20.80	H
5256.94	-34.75	12.80	16.27	-38.22	-13.00	-25.22	H
7009.18	-32.60	12.30	20.13	-40.43	-13.00	-27.43	H
3504.43	-35.68	12.90	12.05	-34.83	-13.00	-21.83	V
5256.77	-35.09	12.80	16.27	-38.56	-13.00	-25.56	V
7009.17	-32.95	12.30	20.13	-40.78	-13.00	-27.78	V



HSDPA Band 4: (30-18000)MHz							
The Worst Test Results for Channel 1313/1712.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.93	-34.84	12.90	12.05	-33.99	-13.00	-20.99	H
5137.57	-34.70	12.80	16.27	-38.17	-13.00	-25.17	H
6849.90	-33.09	12.30	20.13	-40.92	-13.00	-27.92	H
3424.72	-35.41	12.90	12.05	-34.56	-13.00	-21.56	V
5137.51	-34.82	12.80	16.27	-38.29	-13.00	-25.29	V
6850.10	-32.77	12.30	20.13	-40.60	-13.00	-27.60	V
The Worst Test Results for Channel 1450/1740.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3479.85	-33.71	12.90	12.05	-32.86	-13.00	-19.86	H
5219.79	-34.17	12.80	16.27	-37.64	-13.00	-24.64	H
6959.50	-32.69	12.30	20.13	-40.52	-13.00	-27.52	H
3479.63	-35.14	12.90	12.05	-34.29	-13.00	-21.29	V
5219.53	-35.06	12.80	16.27	-38.53	-13.00	-25.53	V
6959.55	-32.98	12.30	20.13	-40.81	-13.00	-27.81	V
The Worst Test Results for Channel 1512/1752.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3504.48	-34.78	12.90	12.05	-33.93	-13.00	-20.93	H
5257.04	-34.93	12.80	16.27	-38.40	-13.00	-25.40	H
7009.37	-32.57	12.30	20.13	-40.40	-13.00	-27.40	H
3504.41	-34.71	12.90	12.05	-33.86	-13.00	-20.86	V
5257.06	-34.24	12.80	16.27	-37.71	-13.00	-24.71	V
7009.22	-32.13	12.30	20.13	-39.96	-13.00	-26.96	V



CDMA BC0: (30-9000)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
1649.71	-34.46	9.40	4.75	-29.81	-13.00	-16.81	H
2474.38	-34.33	10.60	8.39	-32.12	-13.00	-19.12	H
3298.22	-32.55	12.00	11.79	-32.34	-13.00	-19.34	H
1649.41	-35.42	9.40	4.75	-30.77	-13.00	-17.77	V
2474.22	-34.00	10.60	8.39	-31.79	-13.00	-18.79	V
3298.38	-32.80	12.00	11.79	-32.59	-13.00	-19.59	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
1673.83	-34.27	9.40	4.75	-29.62	-13.00	-16.62	H
2509.70	-34.75	10.60	8.39	-32.54	-13.00	-19.54	H
3346.14	-33.63	12.00	11.79	-33.42	-13.00	-20.42	H
1673.74	-35.43	9.40	4.75	-30.78	-13.00	-17.78	V
2509.84	-34.47	10.60	8.39	-32.26	-13.00	-19.26	V
3346.40	-32.43	12.00	11.79	-32.22	-13.00	-19.22	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
1696.55	-34.82	9.40	4.75	-30.17	-13.00	-17.17	H
2544.05	-34.89	10.60	8.39	-32.68	-13.00	-19.68	H
3393.68	-33.37	12.00	11.79	-33.16	-13.00	-20.16	H
1696.44	-35.45	9.40	4.75	-30.80	-13.00	-17.80	V
2544.53	-33.91	10.60	8.39	-31.70	-13.00	-18.70	V
3393.82	-33.04	12.00	11.79	-32.83	-13.00	-19.83	V



EVDO BC0: (30-9000)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
1649.68	-33.72	9.40	4.75	-29.07	-13.00	-16.07	H
2474.38	-34.77	10.60	8.39	-32.56	-13.00	-19.56	H
3298.10	-33.11	12.00	11.79	-32.90	-13.00	-19.90	H
1649.38	-35.45	9.40	4.75	-30.80	-13.00	-17.80	V
2474.36	-33.97	10.60	8.39	-31.76	-13.00	-18.76	V
3297.92	-32.25	12.00	11.79	-32.04	-13.00	-19.04	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
1673.72	-34.08	9.40	4.75	-29.43	-13.00	-16.43	H
2509.64	-35.24	10.60	8.39	-33.03	-13.00	-20.03	H
3346.13	-32.33	12.00	11.79	-32.12	-13.00	-19.12	H
1673.47	-34.67	9.40	4.75	-30.02	-13.00	-17.02	V
2509.43	-35.02	10.60	8.39	-32.81	-13.00	-19.81	V
3346.08	-32.27	12.00	11.79	-32.06	-13.00	-19.06	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
1696.31	-33.53	9.40	4.75	-28.88	-13.00	-15.88	H
2544.25	-34.91	10.60	8.39	-32.70	-13.00	-19.70	H
3393.55	-33.05	12.00	11.79	-32.84	-13.00	-19.84	H
1696.51	-35.37	9.40	4.75	-30.72	-13.00	-17.72	V
2544.12	-34.85	10.60	8.39	-32.64	-13.00	-19.64	V
3393.56	-32.88	12.00	11.79	-32.67	-13.00	-19.67	V



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
3702.10	-33.58	12.60	12.93	-33.91	-13.00	-20.91	H
5553.65	-34.26	13.10	17.11	-38.27	-13.00	-25.27	H
7405.64	-33.54	11.50	22.20	-44.24	-13.00	-31.24	H
3702.28	-34.75	12.60	12.93	-35.08	-13.00	-22.08	V
5553.74	-33.77	13.10	17.11	-37.78	-13.00	-24.78	V
7405.88	-32.01	11.50	22.20	-42.71	-13.00	-29.71	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
3759.96	-34.51	12.60	12.93	-34.84	-13.00	-21.84	H
5640.11	-35.34	13.10	17.11	-39.35	-13.00	-26.35	H
7520.25	-32.40	11.50	22.20	-43.10	-13.00	-30.10	H
3760.07	-35.22	12.60	12.93	-35.55	-13.00	-22.55	V
5640.07	-34.14	13.10	17.11	-38.15	-13.00	-25.15	V
7520.05	-32.79	11.50	22.20	-43.49	-13.00	-30.49	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
3817.38	-34.35	12.60	12.93	-34.68	-13.00	-21.68	H
5725.99	-34.70	13.10	17.11	-38.71	-13.00	-25.71	H
7635.02	-33.15	11.50	22.20	-43.85	-13.00	-30.85	H
3817.43	-36.00	12.60	12.93	-36.33	-13.00	-23.33	V
5726.06	-35.04	13.10	17.11	-39.05	-13.00	-26.05	V
7635.24	-32.50	11.50	22.20	-43.20	-13.00	-30.20	V



EVDO 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
3702.50	-34.14	12.60	12.93	-34.47	-13.00	-21.47	H
5553.69	-34.62	13.10	17.11	-38.63	-13.00	-25.63	H
7405.65	-33.57	11.50	22.20	-44.27	-13.00	-31.27	H
3702.33	-35.52	12.60	12.93	-35.85	-13.00	-22.85	V
5553.60	-34.13	13.10	17.11	-38.14	-13.00	-25.14	V
7405.67	-32.67	11.50	22.20	-43.37	-13.00	-30.37	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
3760.06	-34.91	12.60	12.93	-35.24	-13.00	-22.24	H
5639.83	-34.34	13.10	17.11	-38.35	-13.00	-25.35	H
7520.16	-33.13	11.50	22.20	-43.83	-13.00	-30.83	H
3760.23	-35.18	12.60	12.93	-35.51	-13.00	-22.51	V
5640.26	-34.92	13.10	17.11	-38.93	-13.00	-25.93	V
7520.31	-32.62	11.50	22.20	-43.32	-13.00	-30.32	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
3817.46	-34.03	12.60	12.93	-34.36	-13.00	-21.36	H
5726.12	-34.38	13.10	17.11	-38.39	-13.00	-25.39	H
7635.12	-32.15	11.50	22.20	-42.85	-13.00	-29.85	H
3817.69	-36.01	12.60	12.93	-36.34	-13.00	-23.34	V
5725.82	-34.41	13.10	17.11	-38.42	-13.00	-25.42	V
7634.84	-31.74	11.50	22.20	-42.44	-13.00	-29.44	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*****

