



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : IN2025
FCC ID : 2ABZ2-EE007
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 20, 2019 and completely tested on Jan. 23, 2020. We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N2009-01A	Rev. 01	Initial issue of report	Mar. 19, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 41.35 dB at 3395.200 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	IN2025
FCC ID	2ABZ2-EE007
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE GNSS/NFC/WPC
IMEI Code	Conducted: N/A Radiation: 865422040066037/865422040066029
HW Version	15
SW Version	Oxygen OS 10.5.IN11AA
EUT Stage	Production Unit

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



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	<p>GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz</p> <p>WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz</p> <p>CDMA2000: BC0: 824.70 MHz ~ 848.31 MHz BC1: 1851.25 MHz ~ 1908.75 MHz</p>
Rx Frequency	<p>GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz</p> <p>WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz</p> <p>CDMA2000: BC0: 869.70 MHz ~ 893.31 MHz BC1: 1931.25 MHz ~ 1988.75 MHz</p>
Maximum Output Power to Antenna	<p>Top Antenna: GSM/GPRS/EDGE: 850: 32.20 dBm 1900: 27.67 dBm</p> <p>WCDMA: Band V: 24.27 dBm Band II: 22.30 dBm Band IV: 21.95 dBm</p> <p>CDMA2000: BC0: 24.02 dBm BC1: 21.89 dBm</p> <p>Bottom Antenna: GSM/GPRS/EDGE: 850: 31.91 dBm 1900: 29.13 dBm</p> <p>WCDMA: Band V: 24.09 dBm Band II: 23.69 dBm Band IV: 23.73 dBm</p> <p>CDMA2000: BC0: 23.83 dBm BC1: 23.73 dBm</p>
Antenna Type	PIFA Antenna



Antenna Gain	Top Antenna: Cellular Band: -3.0 dBi PCS Band: -2.0 dBi AWS Band: -2.0 dBi Bottom Antenna: Cellular Band: -2.0 dBi PCS Band: -2.0 dBi AWS Band: -2.0 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : BPSK HSDPA/DC-HSDPA : QPSK HSUPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Bottom Antenna is shown on the report.

1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.5970	0.0280 ppm	245KGXW
Part 22	GSM850 EDGE 1Tx slots	8PSK	0.1510	0.0239 ppm	242KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	BPSK	0.0986	0.0017 ppm	4M14F9W
Part 22	CDMA2000 BC0 1xRTT	QPSK	0.0929	0.0118 ppm	1M27F9W
Part 24	GSM1900 GSM	GMSK	0.5164	0.0301 ppm	242KGXW
Part 24	GSM1900 EDGE 1Tx slots	8PSK	0.1795	0.0201 ppm	239KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	BPSK	0.1476	0.0011 ppm	4M15F9W
Part 24	CDMA2000 BC1 1xRTT	QPSK	0.1489	0.0260 ppm	1M27F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	BPSK	0.1489	0.0010 ppm	4M14F9W



1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ 03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24



1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 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:

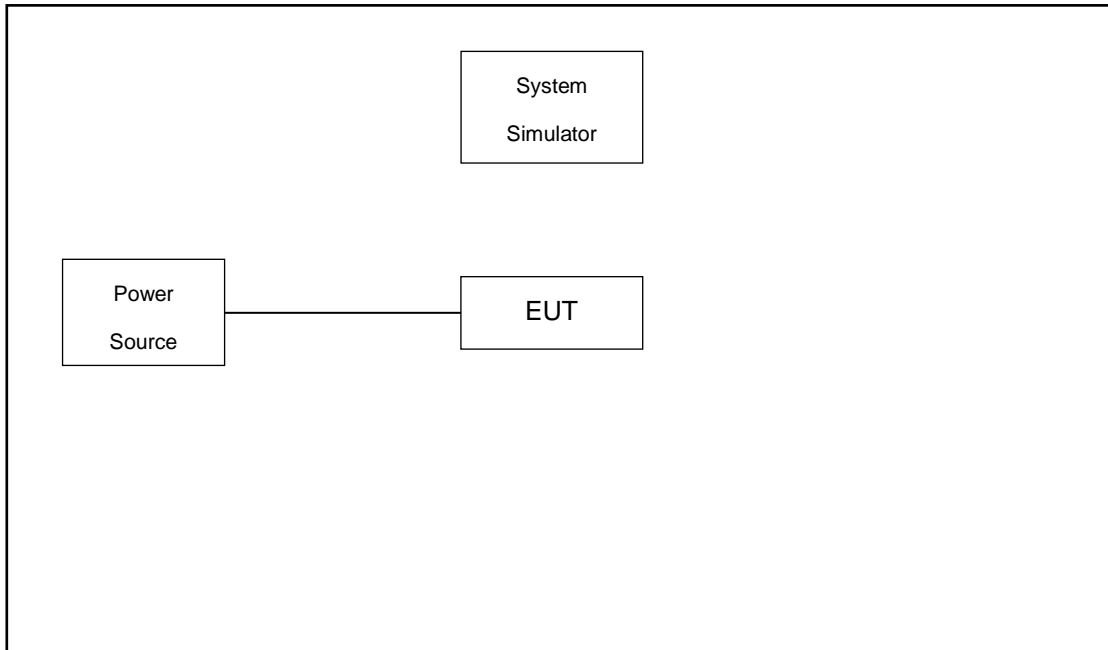
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V and CDMA BC0.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II and CDMA BC1.

All modes and data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1Tx slots Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1Tx slots Link
GSM 1900	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1Tx slots Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1Tx slots Link
WCDMA Band V	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
WCDMA Band IV	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link 	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
CDMA BC0	<ul style="list-style-type: none"> ■ 1xRTT Link 	<ul style="list-style-type: none"> ■ 1xRTT Link
CDMA BC1	<ul style="list-style-type: none"> ■ 1xRTTLink 	<ul style="list-style-type: none"> ■ 1xRTT Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.5 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\
 &= 4.0 + 10 = 14.0 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6
CDMA200 BC0	Channel	1013	384	777
	Frequency	824.7	836.52	848.31
CDMA200 BC1	Channel	25	600	1175
	Frequency	1851.25	1880.0	1908.75

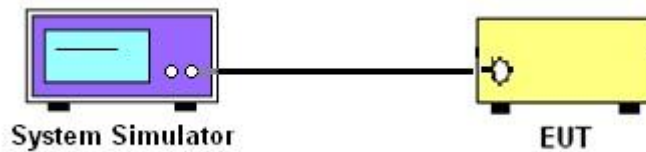
3 Conducted Test Result

3.1 Measuring Instruments

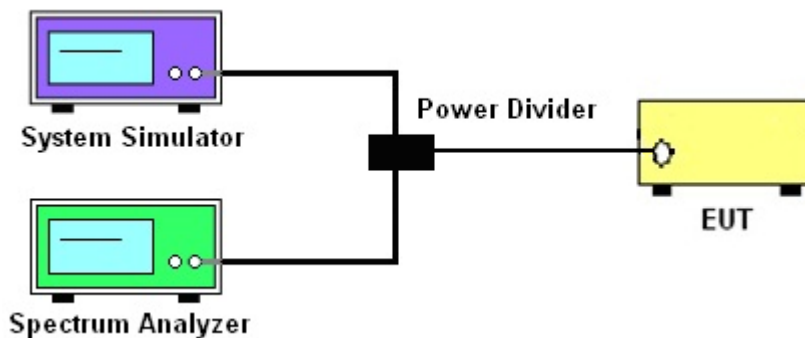
See list of measuring instruments of this test report.

3.2 Test Setup

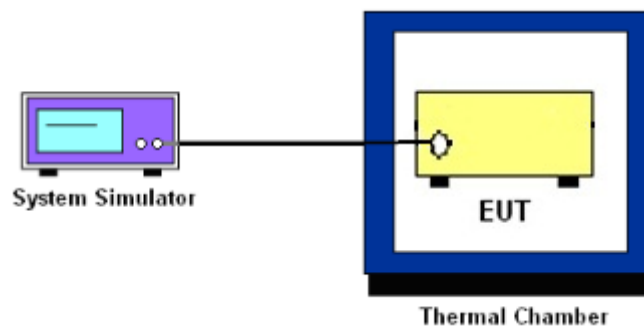
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

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.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V and CDMA BC0.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II and CDMA BC1.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 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 band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 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)



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
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 step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

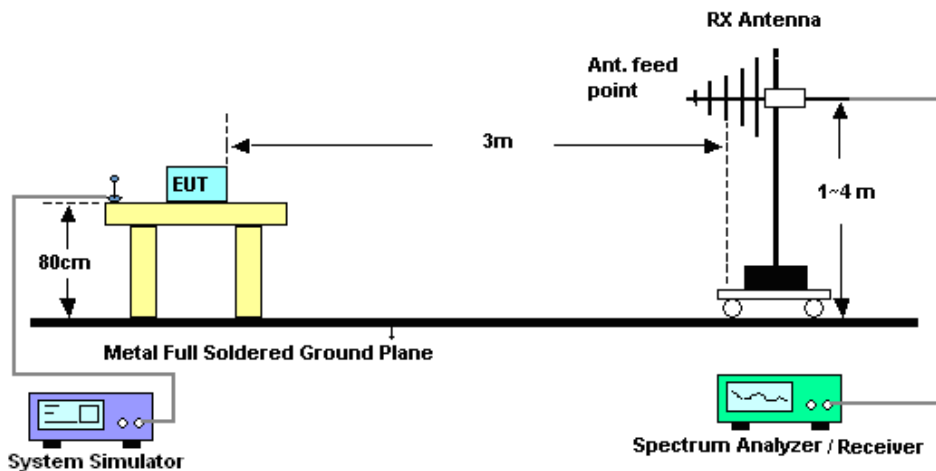
4 Radiated Test Items

4.1 Measuring Instruments

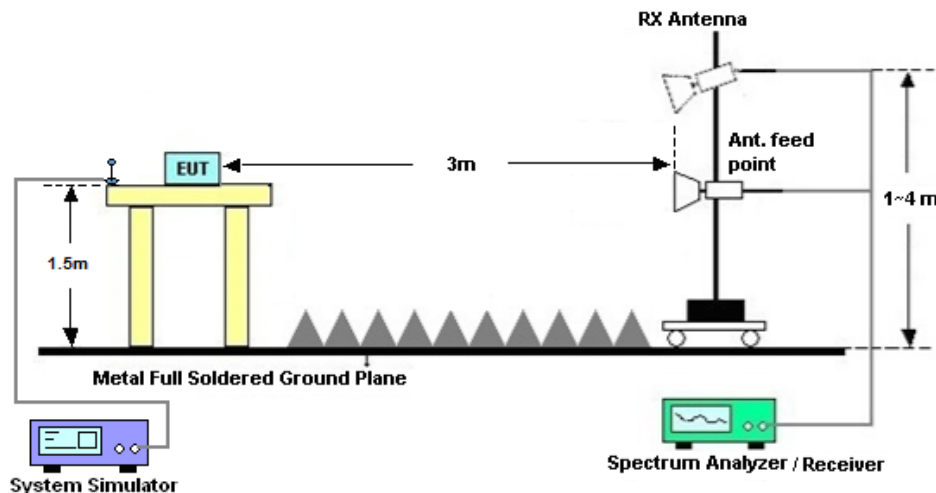
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Dec. 18, 2019~ Dec. 19, 2019	Apr. 17, 2020	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 22, 2018	Dec. 18, 2019~ Dec. 19, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	Jan. 11, 2020~ Jan. 23, 2020	Apr. 18, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 19, 2019	Jan. 11, 2020~ Jan. 23, 2020	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Aug. 27, 2019	Jan. 11, 2020~ Jan. 23, 2020	Aug. 26, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr.18, 2019	Jan. 11, 2020~ Jan. 23, 2020	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18,2019	Jan. 11, 2020~ Jan. 23, 2020	Oct. 17,2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18,2019	Jan. 11, 2020~ Jan. 23, 2020	Oct. 17,2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22. 2019	Jan. 11, 2020~ Jan. 23, 2020	Jul. 21. 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jan. 11, 2020~ Jan. 23, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 11, 2020~ Jan. 23, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 11, 2020~ Jan. 23, 2020	NCR	Radiation (03CH02-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 18, 2019	Jan. 14, 2020	Apr. 17, 2020	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 18, 2019	Jan. 14, 2020	Apr. 17, 2020	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2019	Jan. 14, 2020	Apr. 18, 2020	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 01 2019	Jan. 14, 2020	Mar. 31, 2020	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 18,2019	Jan. 14, 2020	Oct. 17,2020	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22. 2019	Jan. 14, 2020	Jul. 21. 2020	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 18 2019	Jan. 14, 2020	Apr. 17 2020	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 23, 2019	Jan. 14, 2020	Dec. 22, 2020	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jan. 14, 2020	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 14, 2020	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 14, 2020	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)(03CH02-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz) (03CH02-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz) (03CH02-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)(03CH03-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz) (03CH03-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz) (03CH03-SZ)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

Top Antenna:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.17	32.20	32.18	27.67	27.53	27.67
GPRS 1Tx slots	32.05	32.17	32.15	27.47	27.56	27.58
GPRS 2Tx slots	30.46	30.65	30.58	24.81	25.12	24.92
GPRS 3Tx slots	28.84	29.01	29.00	23.71	24.01	23.59
GPRS 4Tx slots	27.47	27.74	27.55	22.20	22.51	22.34
EDGE 1Tx slots	26.10	26.17	26.15	23.32	23.60	23.35
EDGE 2Tx slots	24.46	24.57	24.53	21.51	21.42	21.75
EDGE 3Tx slots	23.32	23.56	23.43	20.41	20.81	20.66
EDGE 4Tx slots	22.58	22.82	22.69	19.22	19.44	19.46

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2K	24.25	24.24	24.19	22.17	22.28	22.26	21.78	21.92	21.93
RMC 12.2K	24.27	24.25	24.21	22.18	22.30	22.28	21.80	21.93	21.95
HSDPA Subtest-1	23.28	23.26	23.23	21.23	21.31	21.30	20.77	20.95	20.92
HSDPA Subtest-2	23.27	23.27	23.17	21.26	21.33	21.29	20.76	20.91	20.93
HSDPA Subtest-3	22.79	22.77	22.72	20.71	20.82	20.82	20.31	20.42	20.39
HSDPA Subtest-4	22.77	22.73	22.72	20.70	20.80	20.80	20.29	20.39	20.42
DC-HSDPA Subtest-1	23.26	23.24	23.21	21.22	21.25	21.23	20.78	20.82	20.89
DC-HSDPA Subtest-2	23.22	23.19	23.17	21.18	21.23	21.20	20.74	20.79	20.86
DC-HSDPA Subtest-3	22.76	22.78	22.72	20.68	20.71	20.65	20.33	20.38	20.41
DC-HSDPA Subtest-4	22.74	22.75	22.70	20.65	20.70	20.66	20.30	20.35	20.38
HSUPA Subtest-1	23.12	23.08	23.04	21.20	21.32	21.33	20.79	20.94	20.91
HSUPA Subtest-2	21.09	21.10	21.00	19.24	19.32	19.33	18.79	18.95	18.96
HSUPA Subtest-3	22.20	22.13	22.11	20.22	20.33	20.35	19.84	19.93	19.95
HSUPA Subtest-4	21.17	21.05	21.09	19.24	19.33	19.31	18.81	18.93	18.89
HSUPA Subtest-5	22.70	22.75	22.89	21.20	21.30	21.40	20.50	20.90	20.90
HSPA+ (16QAM) Subtest-1	21.33	21.24	21.29	19.37	19.44	19.39	18.95	19.12	19.01



Conducted Power (*Unit: dBm)						
Band	CDMA 2000 BC0			CDMA 2000 BC1		
Channel	1013	384	777	25	600	1175
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75
1xRTT RC1 SO55	24.01	24.02	23.98	21.78	21.80	21.89
1xRTT RC3 SO55	23.99	24.01	23.96	21.77	21.79	21.88
1xRTT RC3 SO32 (+ F-SCH)	23.97	24.01	23.95	21.77	21.79	21.87
1xRTT RC3 SO32 (+SCH)	23.94	23.99	23.95	21.69	21.78	21.82
1xEVDO RTAP 153.6Kbps	23.89	23.97	23.94	21.68	21.77	21.85
1xEVDO RETAP 4096Bits	23.89	23.96	23.94	21.67	21.76	21.80

Bottom Antenna:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	31.82	31.91	31.89	28.80	28.83	29.13
GPRS 1Tx slots	31.49	31.41	31.47	28.93	28.81	28.99
GPRS 2Tx slots	30.21	30.36	30.30	26.13	26.46	26.35
GPRS 3Tx slots	28.66	28.84	28.74	24.60	24.91	24.74
GPRS 4Tx slots	27.28	27.44	27.25	23.78	23.95	23.79
EDGE 1Tx slots	25.71	25.94	25.81	24.33	24.43	24.54
EDGE 2Tx slots	24.19	24.27	24.34	23.32	23.25	23.42
EDGE 3Tx slots	23.04	23.34	23.17	22.19	22.41	22.34
EDGE 4Tx slots	22.40	22.62	22.51	20.94	21.27	21.11



Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
AMR 12.2K	24.05	24.08	24.04	23.58	23.65	23.68	23.61	23.69	23.65
RMC 12.2K	24.09	24.06	24.05	23.60	23.69	23.66	23.64	23.73	23.72
HSDPA Subtest-1	23.08	23.06	23.03	22.57	22.65	22.67	22.56	22.72	22.72
HSDPA Subtest-2	23.06	23.06	23.06	22.56	22.37	22.65	22.59	22.70	22.72
HSDPA Subtest-3	22.57	22.61	22.54	22.08	22.14	22.18	22.06	22.18	22.19
HSDPA Subtest-4	22.57	22.56	22.54	22.11	22.18	21.82	22.08	22.22	22.19
DC-HSDPA Subtest-1	23.05	23.03	23.02	22.55	22.63	22.61	22.54	22.68	22.62
DC-HSDPA Subtest-2	23.02	23.00	22.99	22.51	22.59	22.54	22.52	22.64	22.60
DC-HSDPA Subtest-3	22.54	22.49	22.51	22.01	22.14	22.06	22.09	22.13	22.09
DC-HSDPA Subtest-4	22.51	22.47	22.48	22.03	22.10	22.03	22.05	22.08	22.05
HSUPA Subtest-1	23.06	23.02	22.98	22.60	22.69	22.73	22.66	22.73	22.78
HSUPA Subtest-2	21.09	21.02	21.01	20.59	20.70	20.64	20.63	20.72	20.76
HSUPA Subtest-3	22.07	22.02	22.00	21.57	21.64	21.70	21.62	21.72	21.72
HSUPA Subtest-4	21.05	21.08	21.02	20.60	20.65	20.71	20.63	20.74	20.72
HSUPA Subtest-5	23.10	23.00	23.00	22.60	22.70	22.70	22.60	22.70	22.70
HSPA+ (16QAM) Subtest-1	21.18	21.21	21.17	20.75	20.98	21.02	20.70	20.83	20.85

Conducted Power (*Unit: dBm)						
Band	CDMA 2000 BC0			CDMA 2000 BC1		
Channel	1013	384	777	25	600	1175
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75
1xRTT RC1 SO55	23.79	23.83	23.79	23.55	23.68	23.73
1xRTT RC3 SO55	23.79	23.80	23.78	23.46	23.67	23.71
1xRTT RC3 SO32 (+ F-SCH)	23.78	23.79	23.73	23.48	23.67	23.69
1xRTT RC3 SO32 (+SCH)	23.68	23.69	23.63	23.46	23.66	23.69
1xEVDO RTAP 153.6Kbps	23.67	23.69	23.59	23.43	23.65	23.65
1xEVDO RETAP 4096Bits	23.66	23.64	23.59	23.42	23.63	23.62



ERP/EIRP

GSM850 (G_T - L_C= -2.0 dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	31.82	31.91	31.89
Conducted Power (Watts)	1.5205	1.5524	1.5453
ERP(dBm)	27.67	27.76	27.74
ERP(Watts)	0.5848	0.5970	0.5943

EDGE850 (G_T - L_C= -2.0 dB)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	25.71	25.94	25.81
Conducted Power (Watts)	0.3724	0.3926	0.3811
ERP(dBm)	21.56	21.79	21.66
ERP(Watts)	0.1432	0.1510	0.1466



GSM1900 ($G_T - L_C = -2.0$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	28.80	28.83	29.13
Conducted Power (Watts)	0.7586	0.7638	0.8185
EIRP(dBm)	26.80	26.83	27.13
EIRP(Watts)	0.4786	0.4819	0.5164

EDGE1900 ($G_T - L_C = -2.0$ dB)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	24.33	24.43	24.54
Conducted Power (Watts)	0.2710	0.2773	0.2844
EIRP(dBm)	22.33	22.43	22.54
EIRP(Watts)	0.1710	0.1750	0.1795



WCDMA Band V ($G_T - L_C = -2.0$ dB)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency	826.4	836.4	846.6
(MHz)			
Conducted Power (dBm)	24.09	24.06	24.05
Conducted Power (Watts)	0.2564	0.2547	0.2541
ERP(dBm)	19.94	19.91	19.90
ERP(Watts)	0.0986	0.0979	0.0977

WCDMA Band II ($G_T - L_C = -2.0$ dB)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency	1852.4	1880	1907.6
(MHz)			
Conducted Power (dBm)	23.60	23.69	23.66
Conducted Power (Watts)	0.2291	0.2339	0.2323
EIRP(dBm)	21.60	21.69	21.66
EIRP(Watts)	0.1445	0.1476	0.1466

WCDMA Band IV ($G_T - L_C = -2.0$ dB)			
Channel	1312	1413	1513
	(Low)	(Mid)	(High)
Frequency	1712.4	1732.6	1752.6
(MHz)			
Conducted Power (dBm)	23.64	23.73	23.72
Conducted Power (Watts)	0.2312	0.2360	0.2355
EIRP(dBm)	21.64	21.73	21.72
EIRP(Watts)	0.1459	0.1489	0.1486



CDMA 2000 BC0 (G _T - L _C = -2.0 dB)			
Channel	1013	384	777
	(Low)	(Mid)	(High)
Frequency	824.7	836.52	848.31
(MHz)			
Conducted Power (dBm)	23.79	23.83	23.79
Conducted Power (Watts)	0.2393	0.2415	0.2393
ERP(dBm)	19.64	19.68	19.64
ERP(Watts)	0.0920	0.0929	0.0920

CDMA 2000 BC1 (G _T - L _C = -2.0 dB)			
Channel	25	600	1175
	(Low)	(Mid)	(High)
Frequency	1851.25	1880	1908.75
(MHz)			
Conducted Power (dBm)	23.55	23.68	23.73
Conducted Power (Watts)	0.2265	0.2333	0.2360
EIRP(dBm)	21.55	21.68	21.73
EIRP(Watts)	0.1429	0.1472	0.1489



GSM

Peak-to-Average Ratio

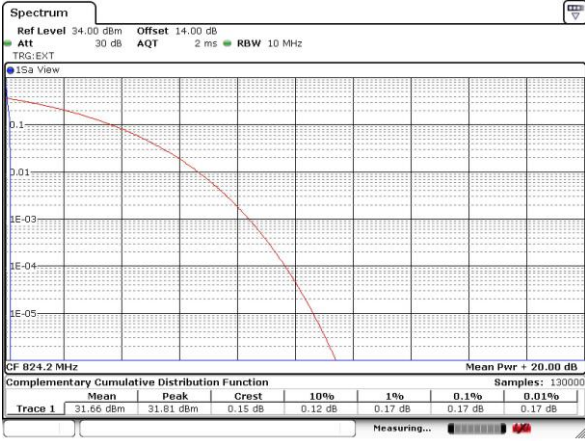
Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE 1Tx slots	Result
Lowest CH	0.17	3.36	PASS
Middle CH	0.17	3.22	
Highest CH	0.20	3.54	

Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE 1Tx slots	Result
Lowest CH	0.17	3.30	PASS
Middle CH	0.20	3.42	
Highest CH	0.17	3.13	



GSM850 (GSM)

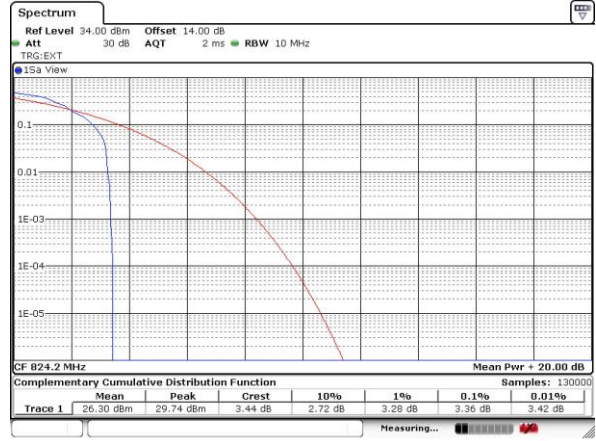
Lowest Channel



Date: 19_DEC.2019 22:139:06

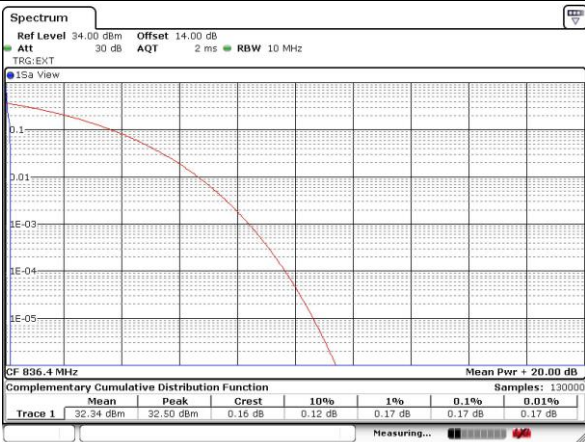
GSM850 (EDGE 1Tx slots)

Lowest Channel



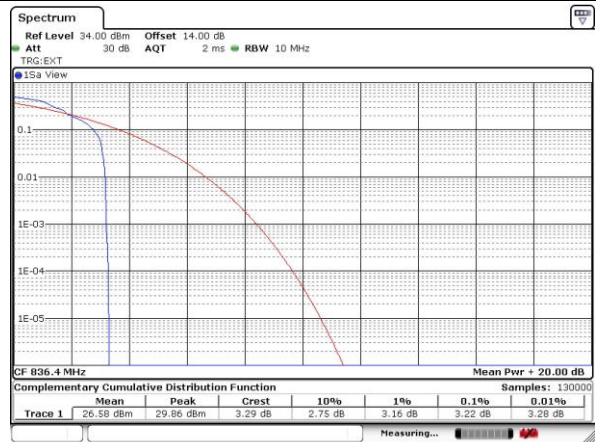
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Middle Channel



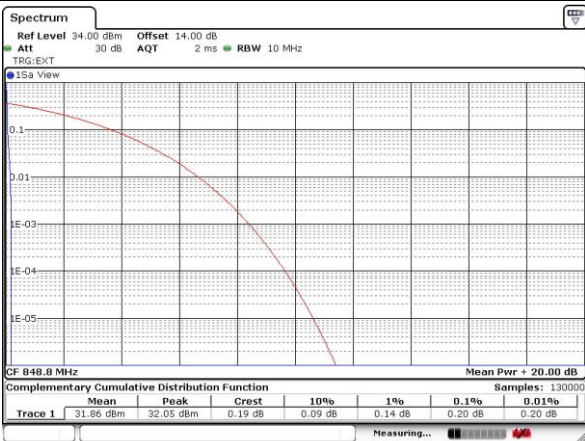
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Middle Channel



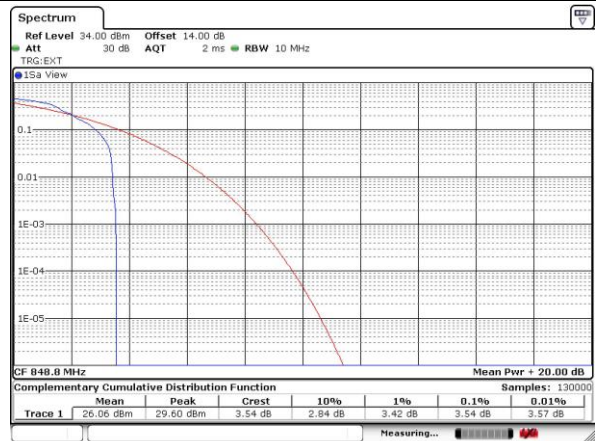
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Highest Channel

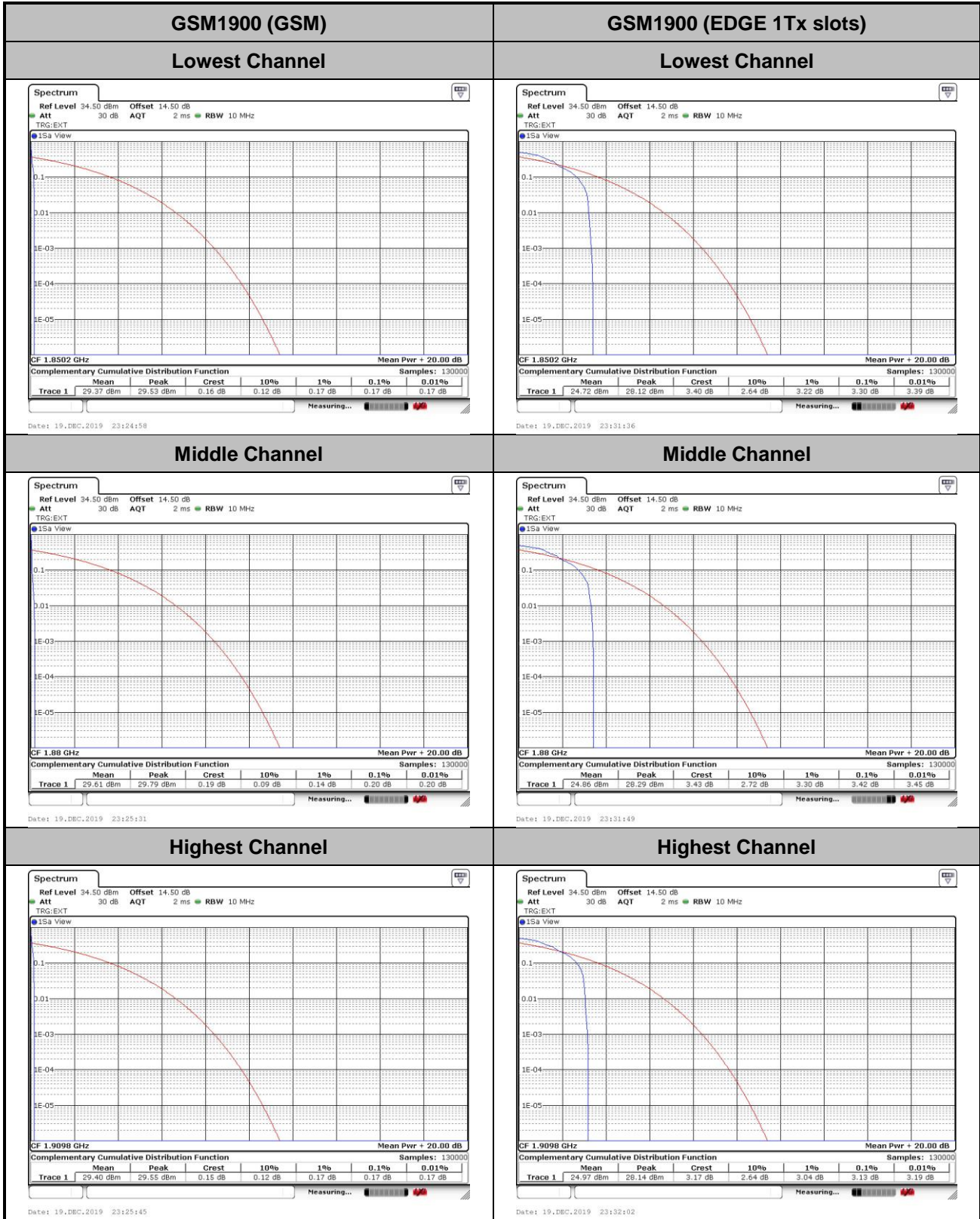


Date: 19_DEC.2019 22:139:41

Highest Channel



Date: 19_DEC.2019 22:150:18





26dB Bandwidth

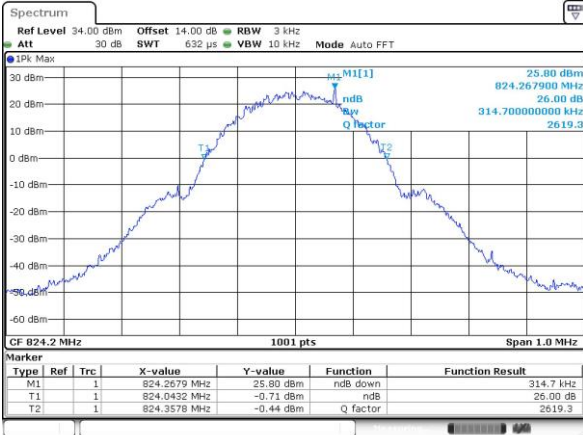
Mode	GSM850(MHz)	
Mod.	GSM	EDGE 1Tx slots
Lowest CH	0.315	0.307
Middle CH	0.315	0.302
Highest CH	0.313	0.298

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE 1Tx slots
Lowest CH	0.314	0.306
Middle CH	0.313	0.314
Highest CH	0.311	0.299



GSM850 (GSM)

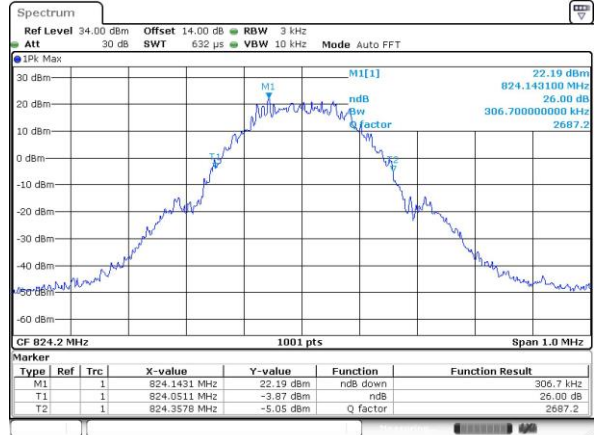
Lowest Channel



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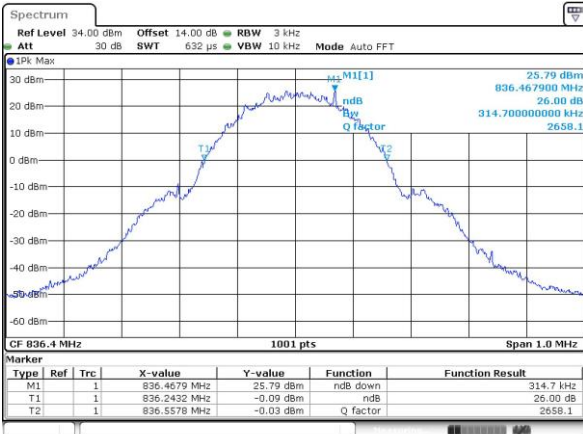
GSM850 (EDGE 1Tx slots)

Lowest Channel



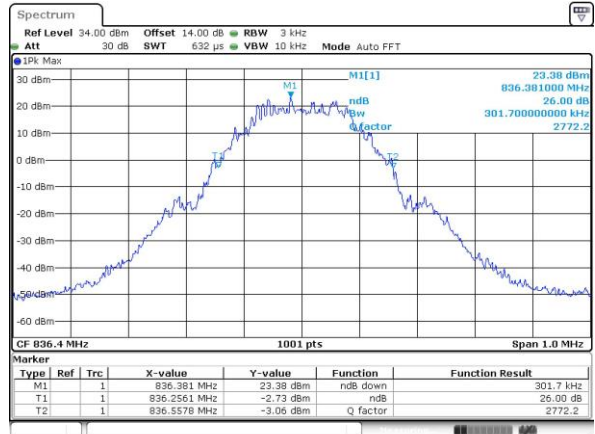
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Middle Channel



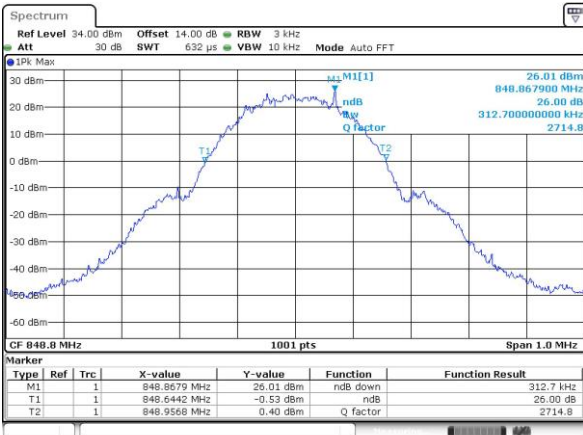
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Middle Channel



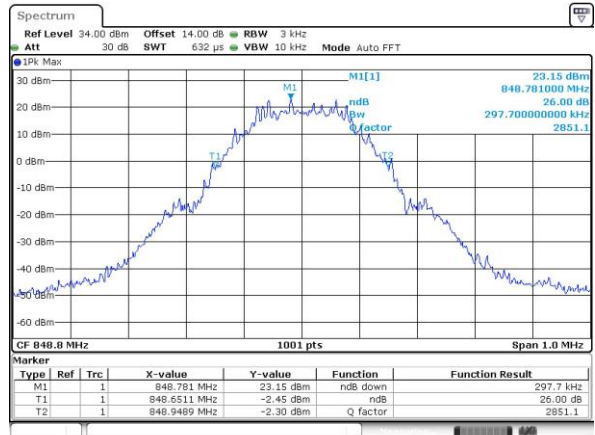
Date: 19_DEC.2019 22:44:12

Highest Channel

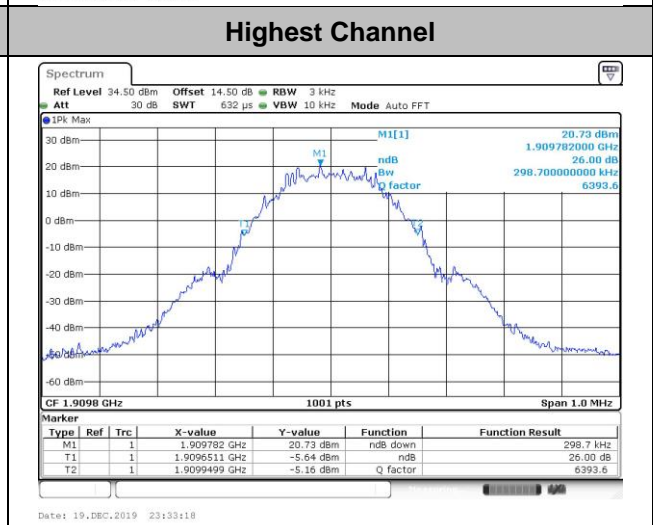
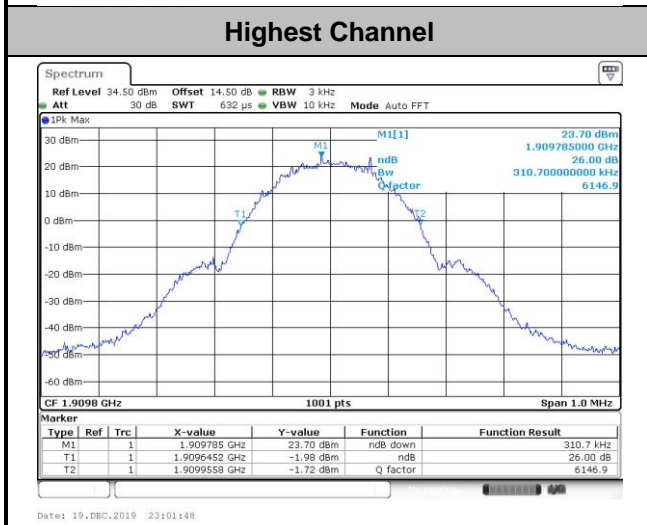
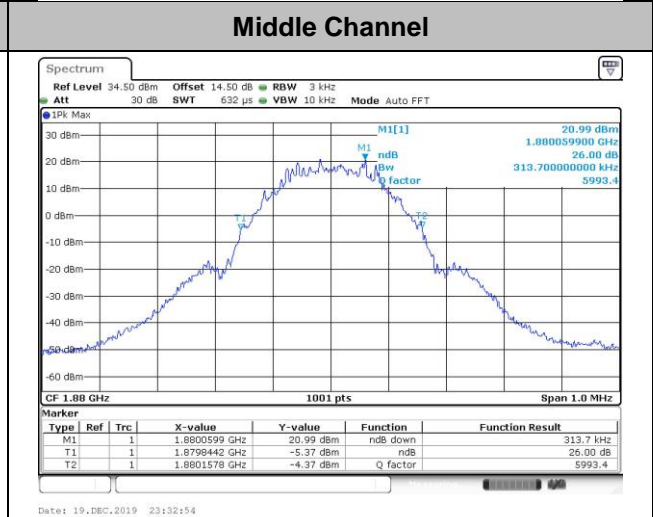
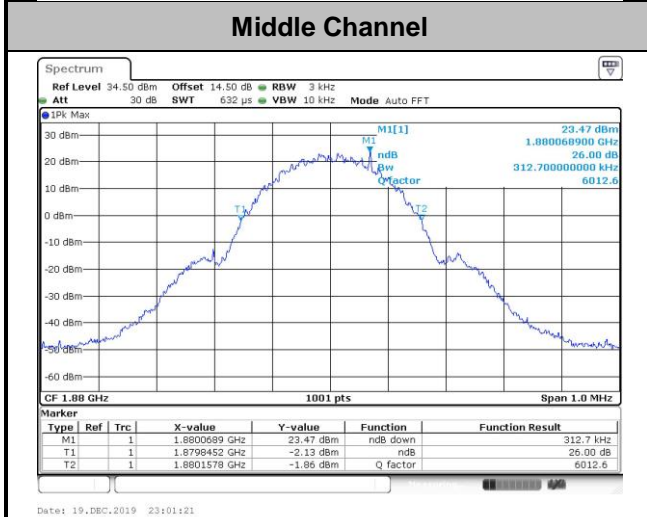
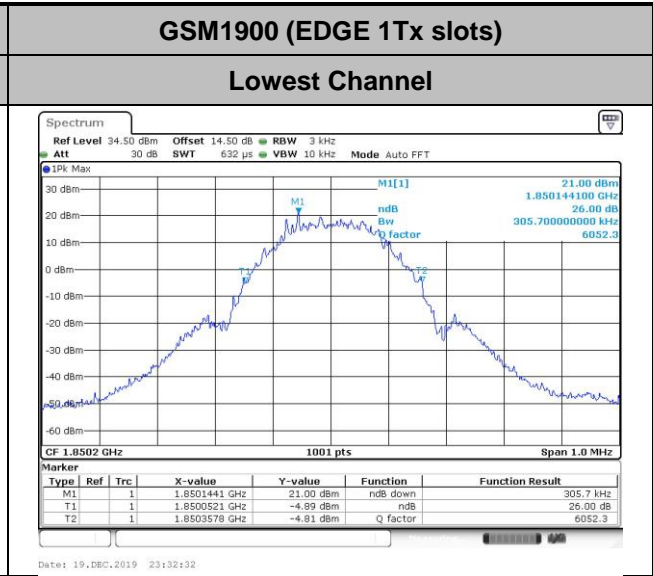
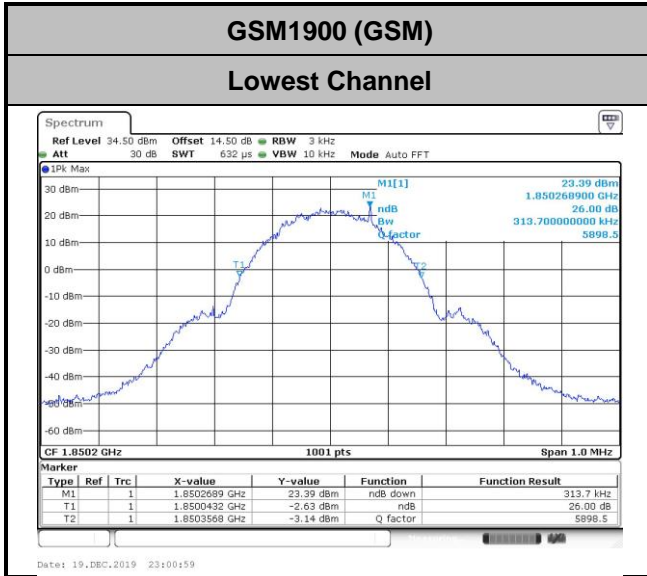


Date: 19_DEC.2019 22:31:43

Highest Channel



Date: 19_DEC.2019 22:44:35

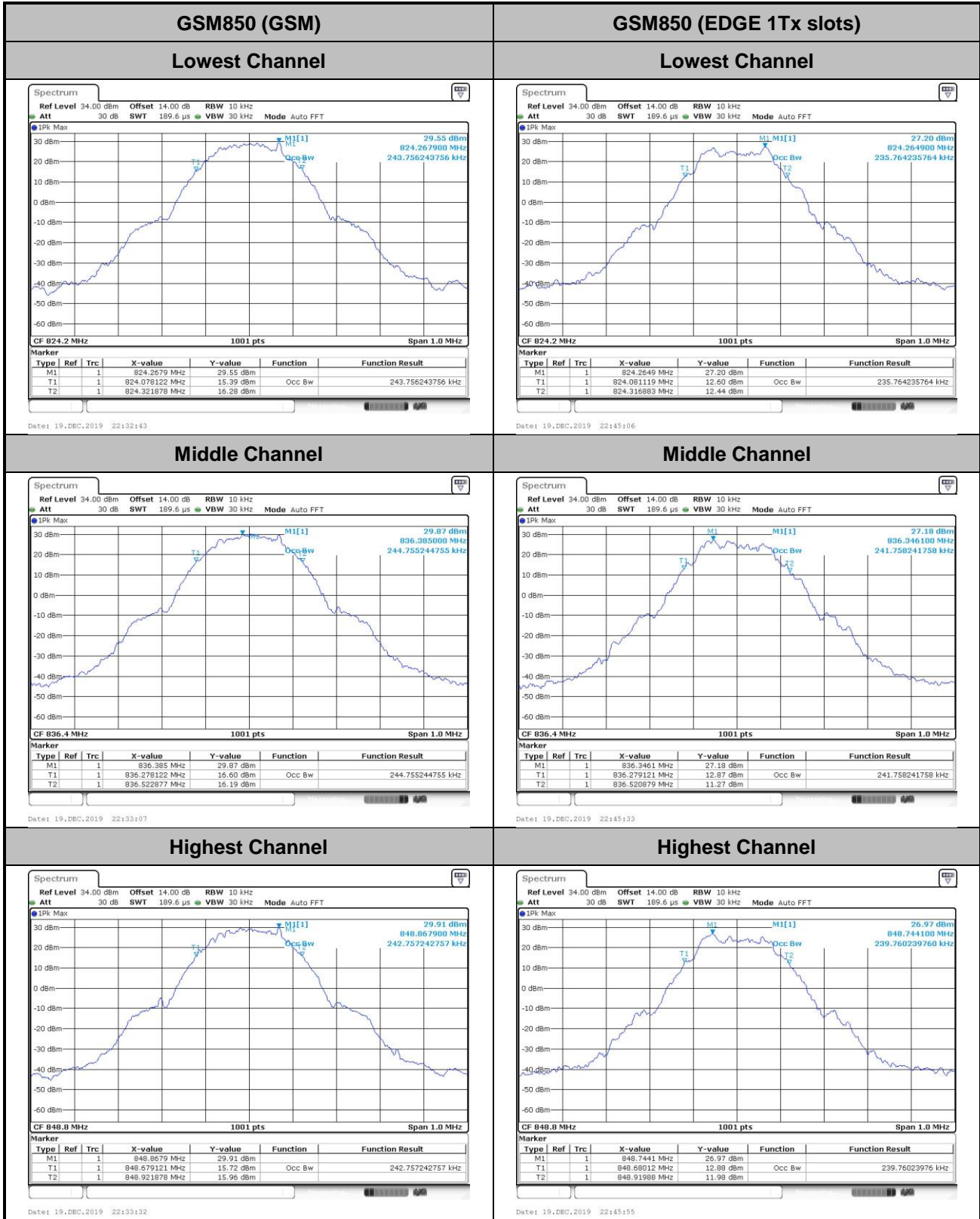




Occupied Bandwidth

Mode	GSM850(MHz)	
Mod.	GSM	EDGE 1Tx slots
Lowest CH	0.244	0.236
Middle CH	0.245	0.242
Highest CH	0.243	0.240

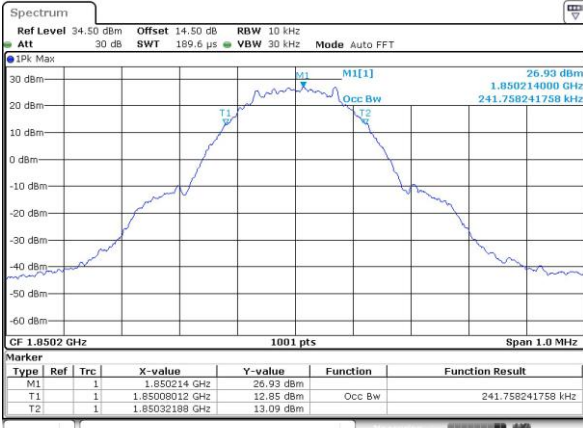
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE 1Tx slots
Lowest CH	0.242	0.239
Middle CH	0.241	0.237
Highest CH	0.242	0.237





GSM1900 (GSM)

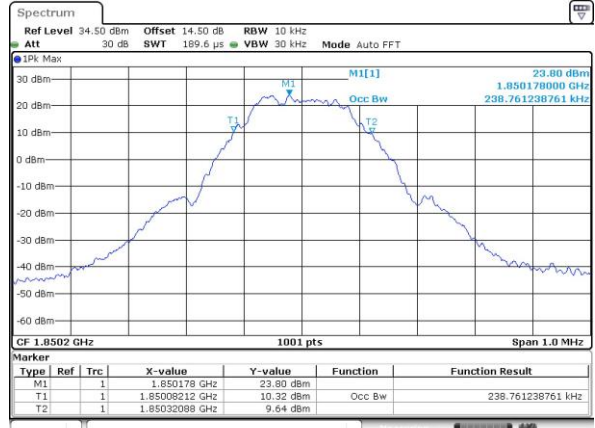
Lowest Channel



Date: 19_DEC.2019 23:02:15

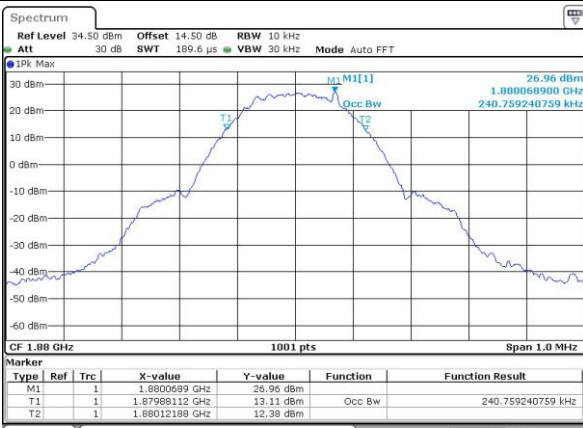
GSM1900 (EDGE 1Tx slots)

Lowest Channel



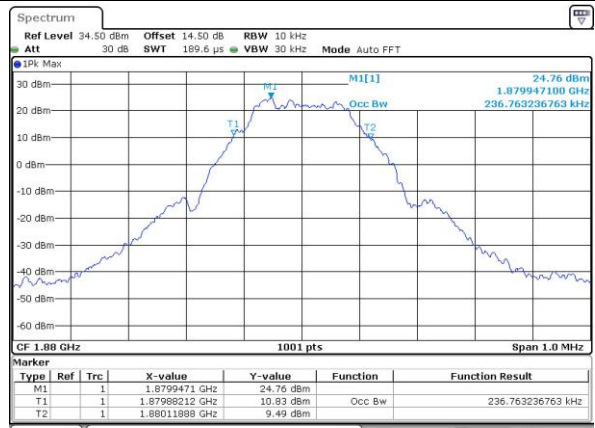
Date: 19_DEC.2019 23:13:42

Middle Channel



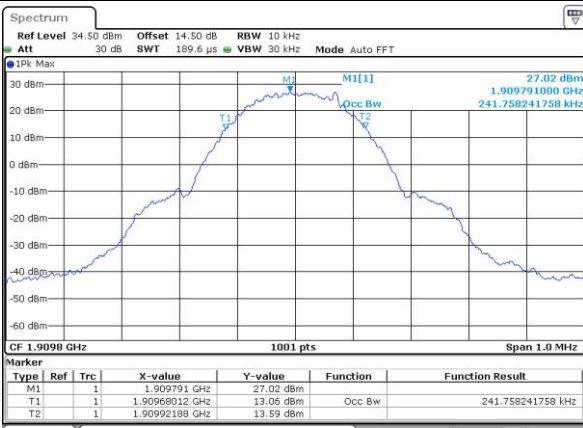
Date: 19_DEC.2019 23:02:38

Middle Channel



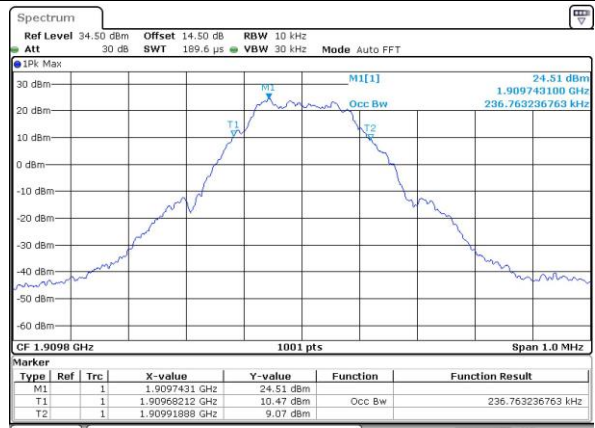
Date: 19_DEC.2019 23:14:05

Highest Channel



Date: 19_DEC.2019 23:03:01

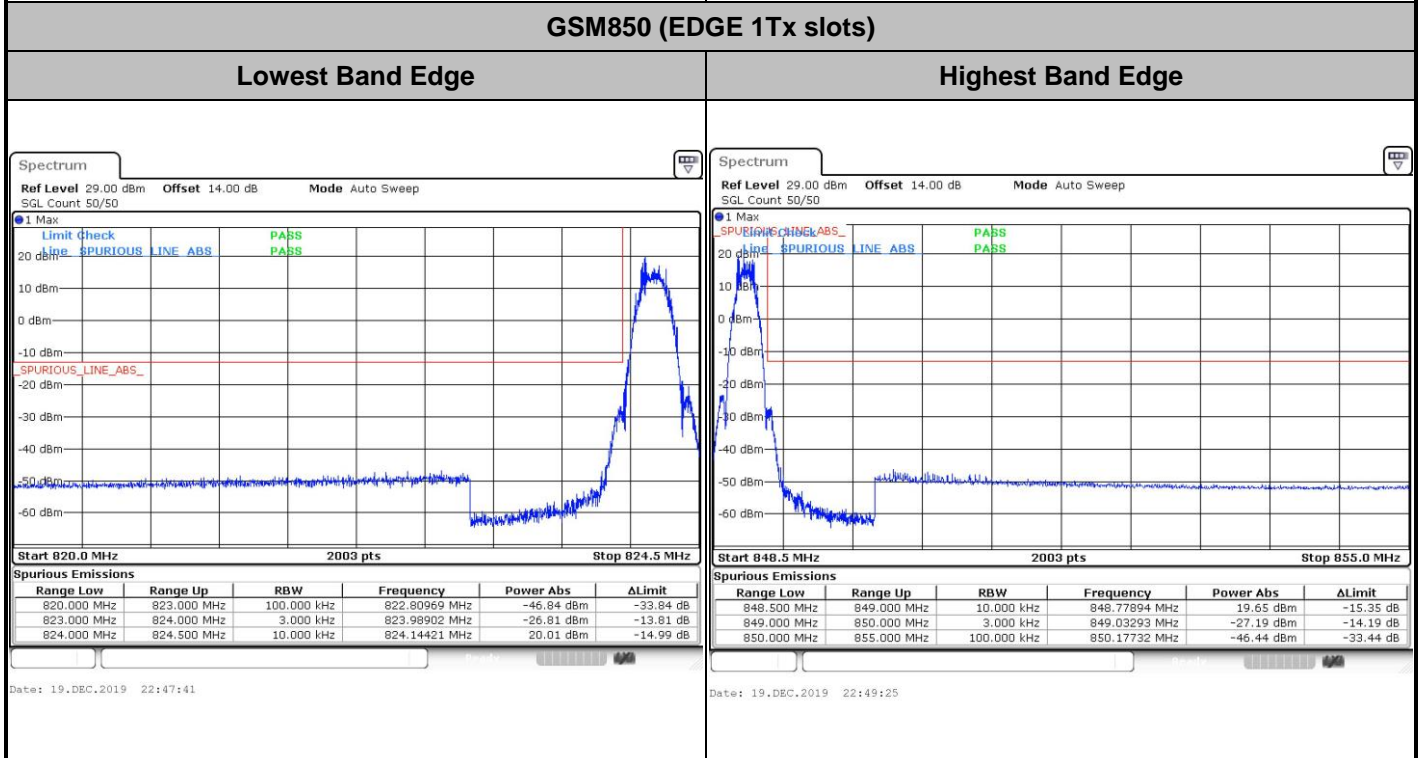
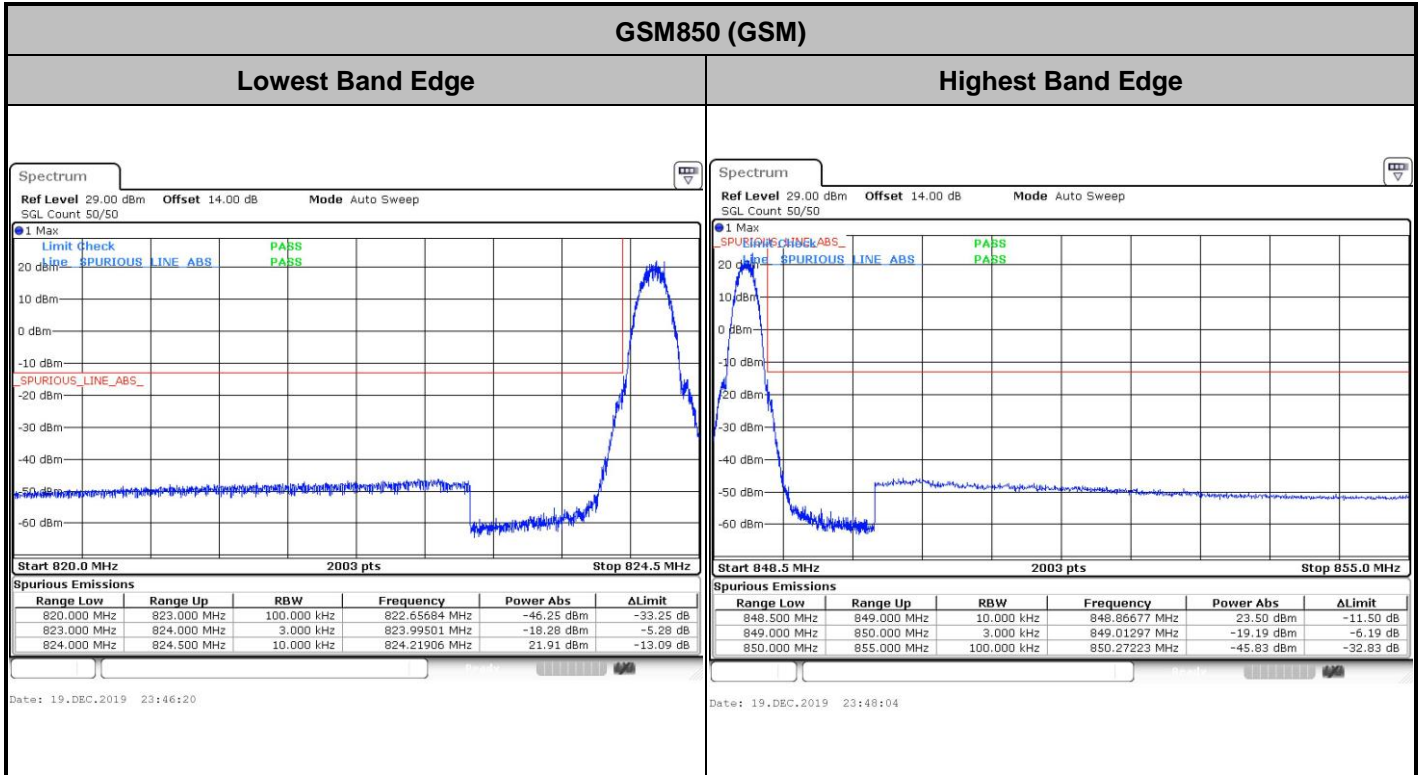
Highest Channel



Date: 19_DEC.2019 23:14:27



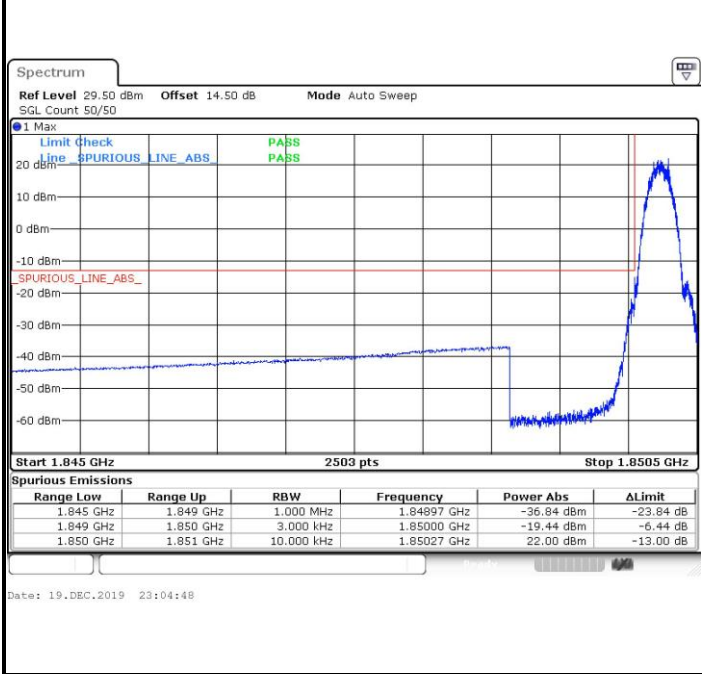
Conducted Band Edge



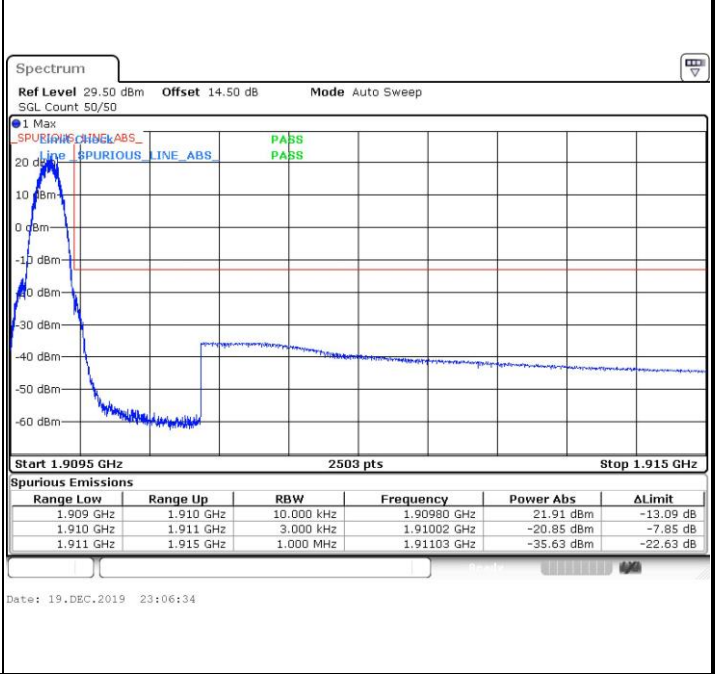


GSM1900 (GSM)

Lowest Band Edge

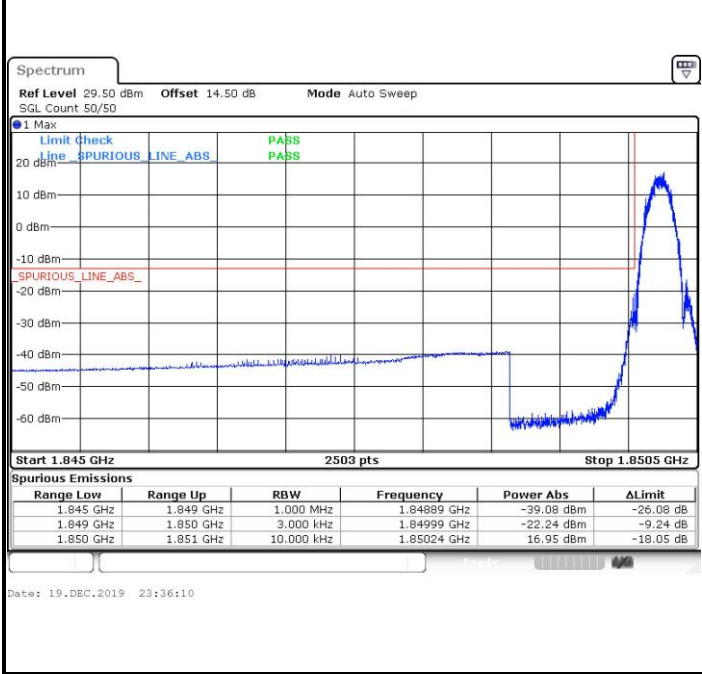


Highest Band Edge

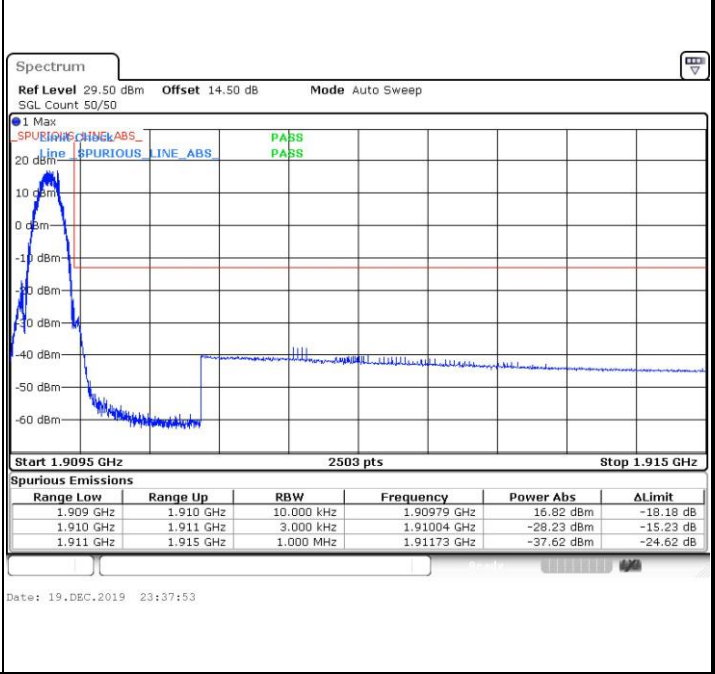


GSM1900 (EDGE 1Tx slots)

Lowest Band Edge

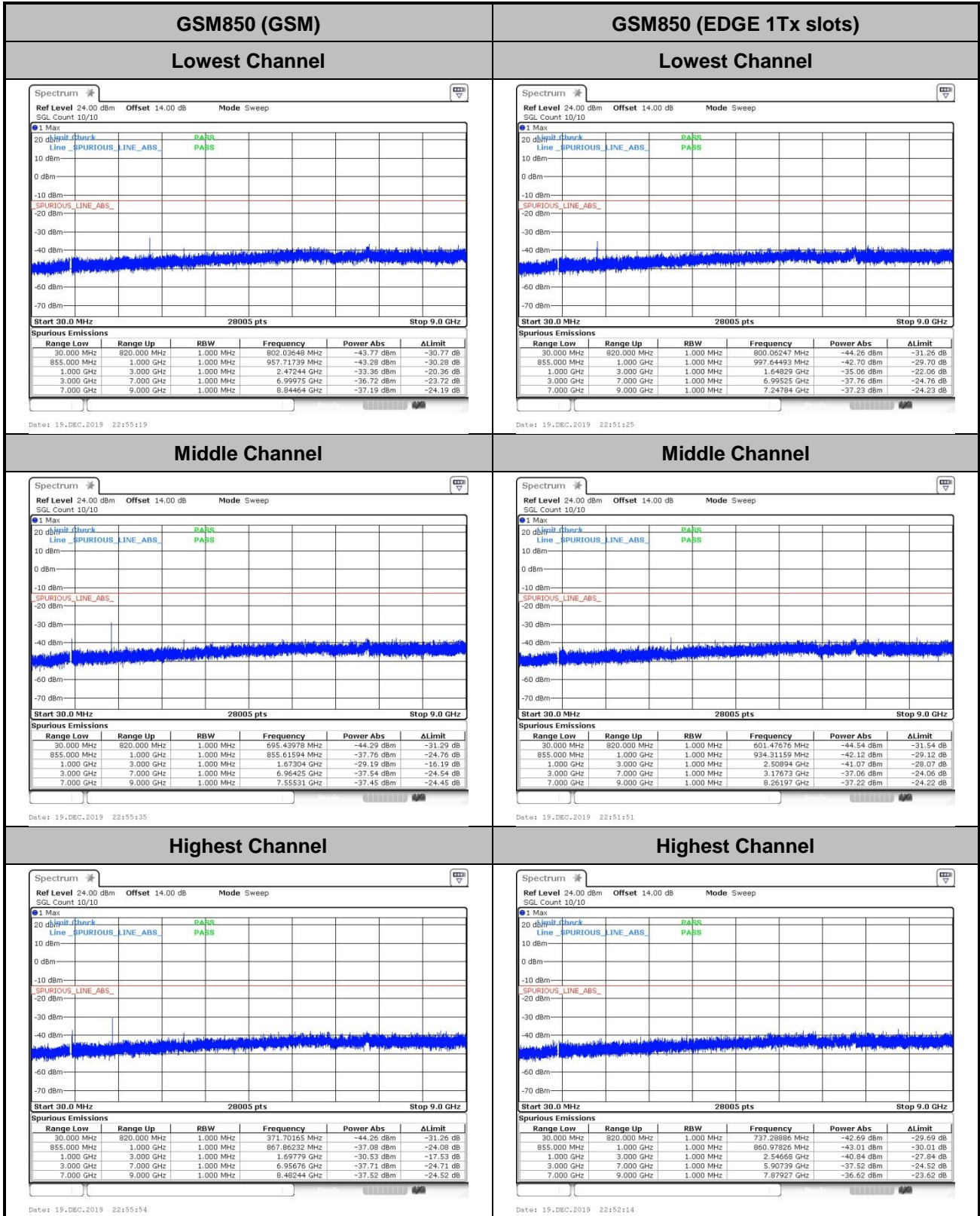


Highest Band Edge





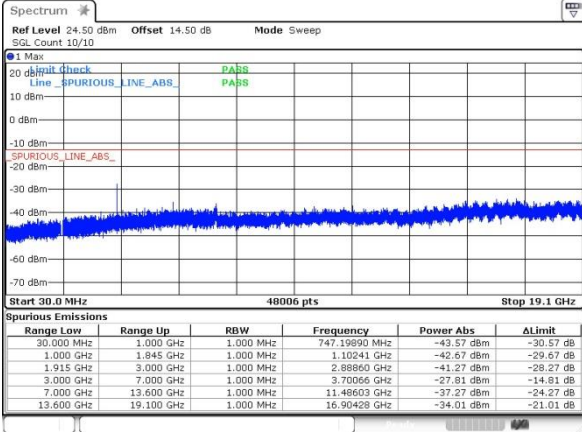
Conducted Spurious Emission





GSM1900 (GSM)

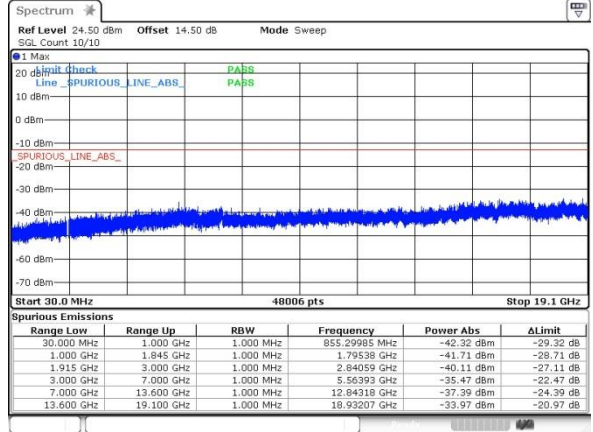
Lowest Channel



Date: 19_DEC.2019 23:10:30

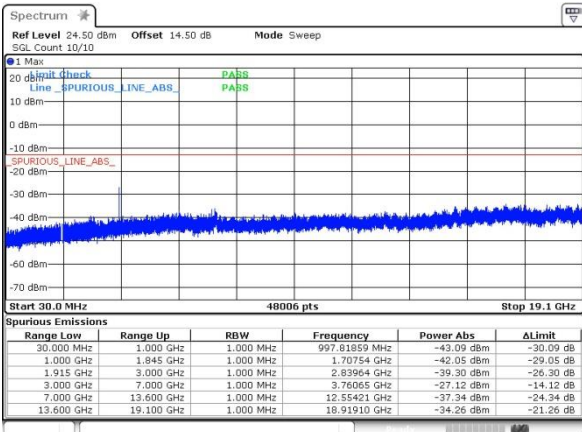
GSM1900 (EDGE 1Tx slots)

Lowest Channel



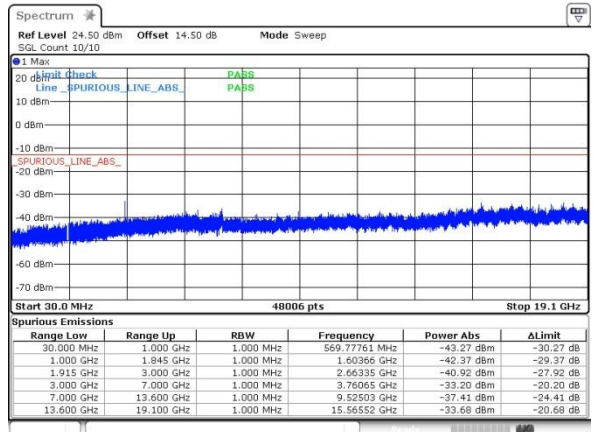
Date: 19_DEC.2019 23:13:53

Middle Channel



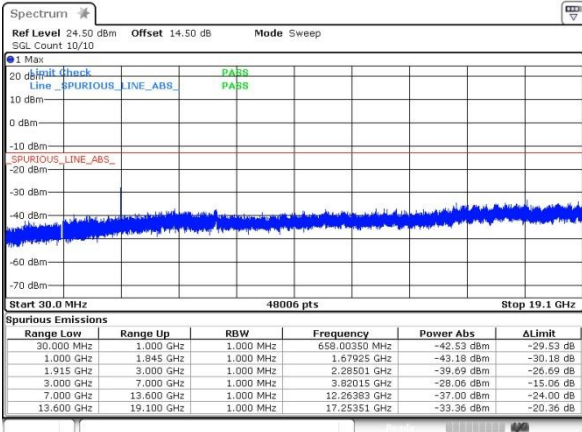
Date: 19_DEC.2019 23:10:56

Middle Channel



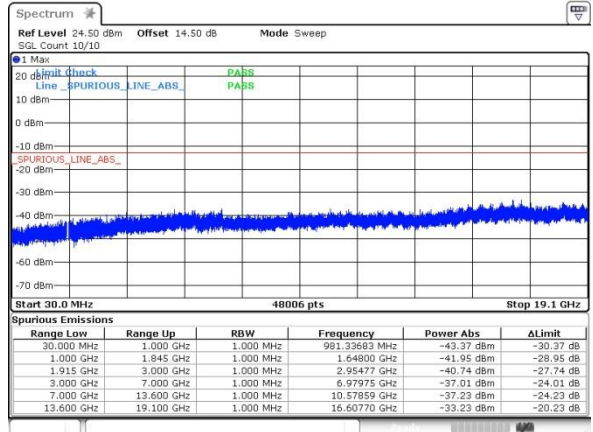
Date: 19_DEC.2019 23:13:11

Highest Channel



Date: 19_DEC.2019 23:11:23

Highest Channel



Date: 19_DEC.2019 23:13:31



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE 1Tx slots)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0084	0.0005	PASS
40	Normal Voltage	0.0273	0.0115	
30	Normal Voltage	0.0226	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0030	0.0079	
0	Normal Voltage	0.0036	0.0239	
-10	Normal Voltage	0.0147	0.0074	
-20	Normal Voltage	0.0204	0.0036	
-30	Normal Voltage	0.0280	0.0065	
20	Maximum Voltage	0.0202	0.0013	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0127	0.0057	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE 1Tx slots)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0123	0.0029	PASS
40	Normal Voltage	0.0132	0.0069	
30	Normal Voltage	0.0090	0.0102	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0040	0.0129	
0	Normal Voltage	0.0057	0.0007	
-10	Normal Voltage	0.0053	0.0201	
-20	Normal Voltage	0.0147	0.0143	
-30	Normal Voltage	0.0054	0.0001	
20	Maximum Voltage	0.0301	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0054	0.0006	

Note:

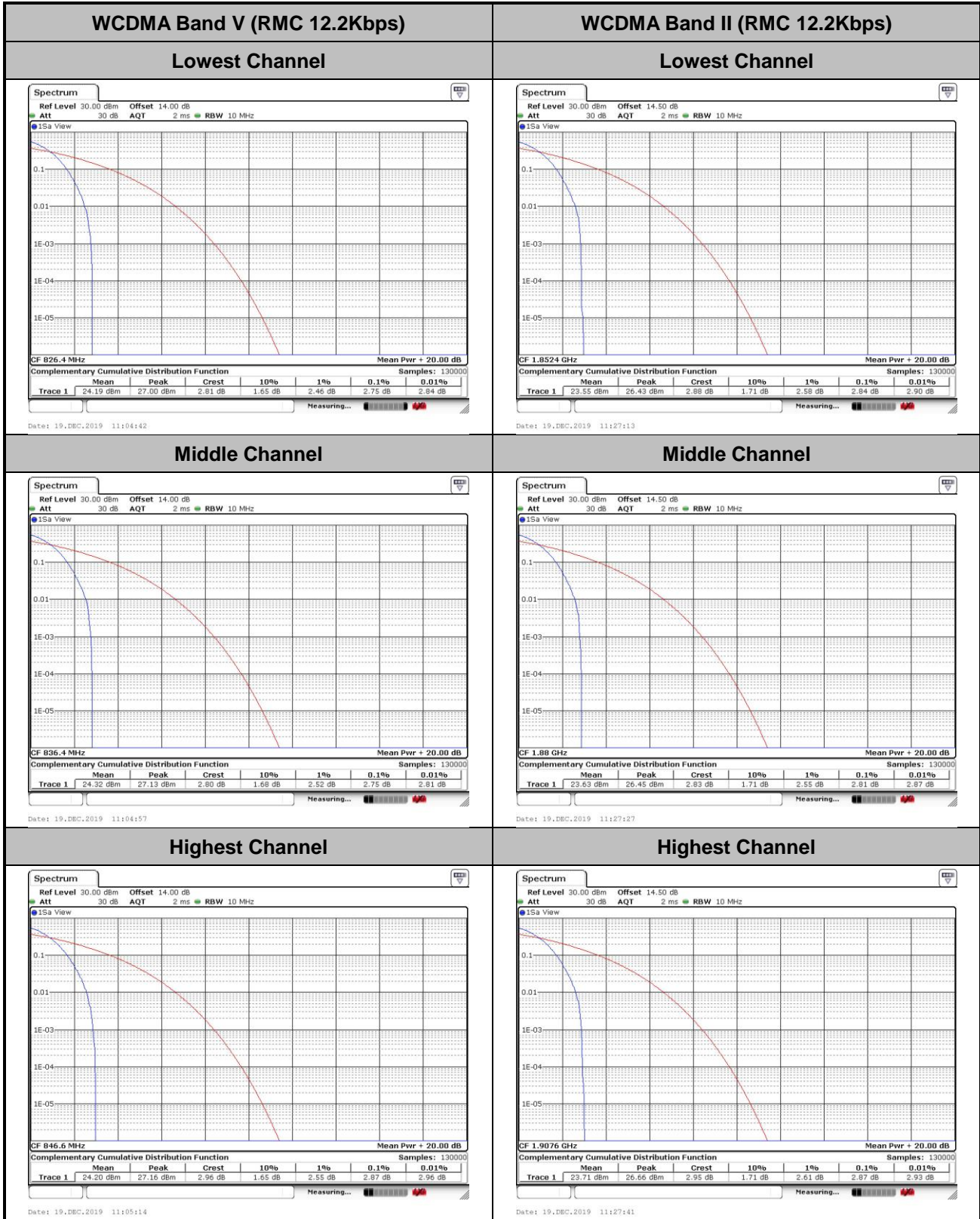
1. Normal Voltage = 3.87V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

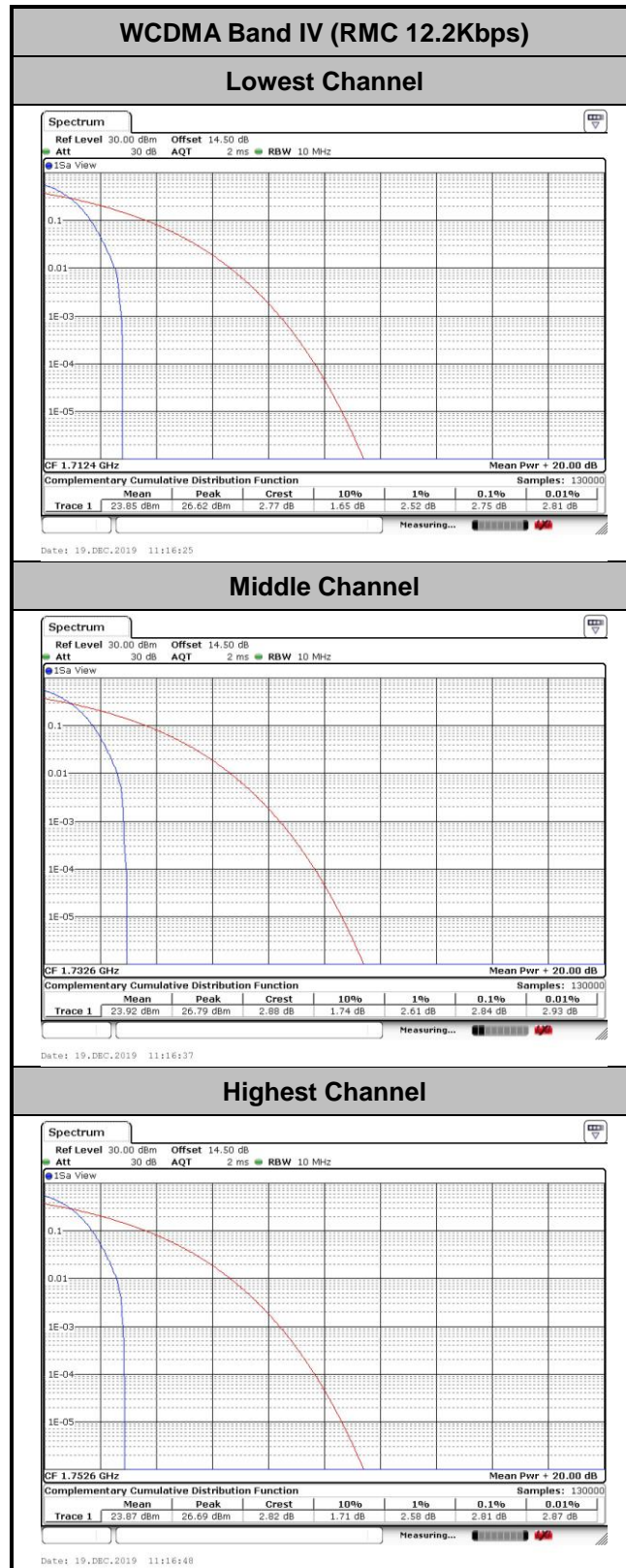


WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.75	2.84	2.75	PASS
Middle CH	2.75	2.81	2.84	
Highest CH	2.87	2.87	2.81	







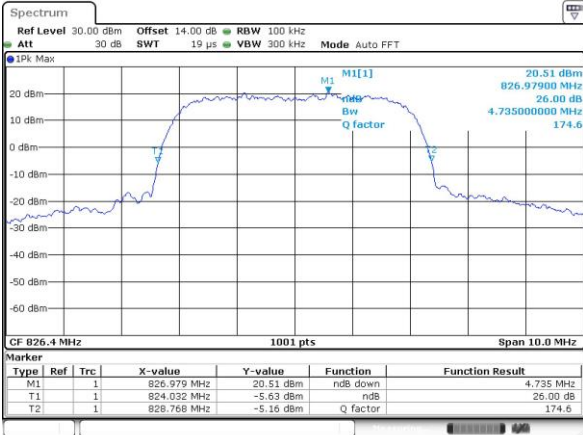
26dB Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.735	4.705	4.725
Middle CH	4.715	4.725	4.715
Highest CH	4.715	4.715	4.725



WCDMA Band V (RMC 12.2Kbps)

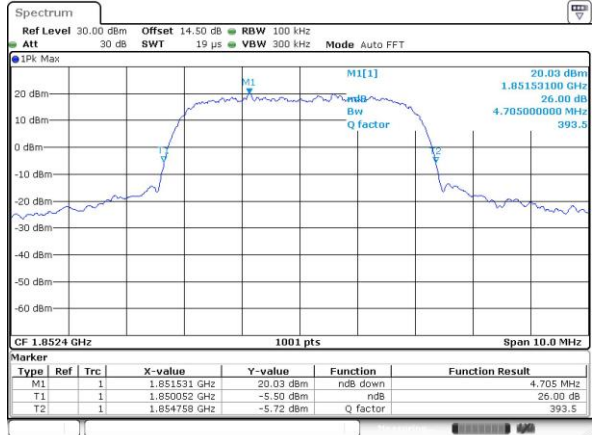
Lowest Channel



Date: 19_DEC.2019 10:55:53

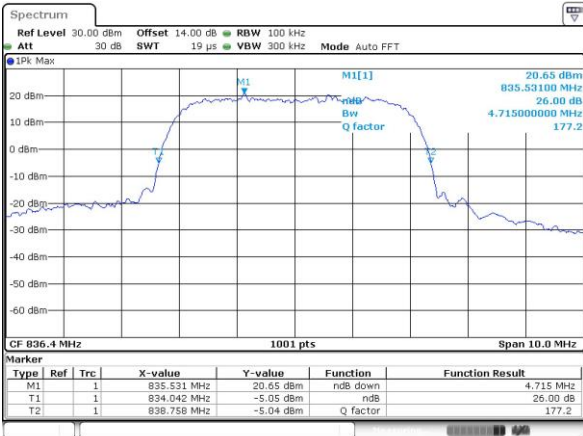
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



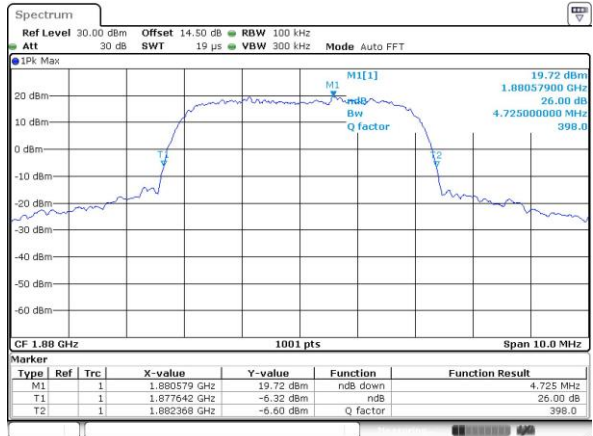
Date: 19_DEC.2019 11:20:35

Middle Channel



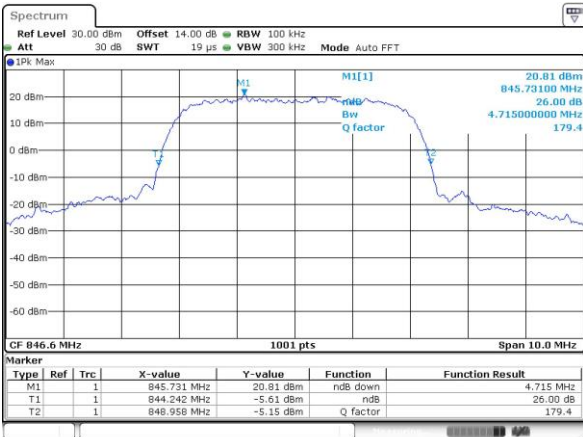
Date: 19_DEC.2019 10:56:20

Middle Channel



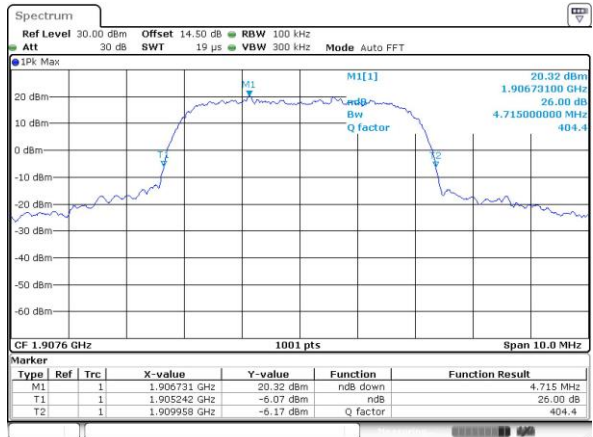
Date: 19_DEC.2019 11:20:59

Highest Channel

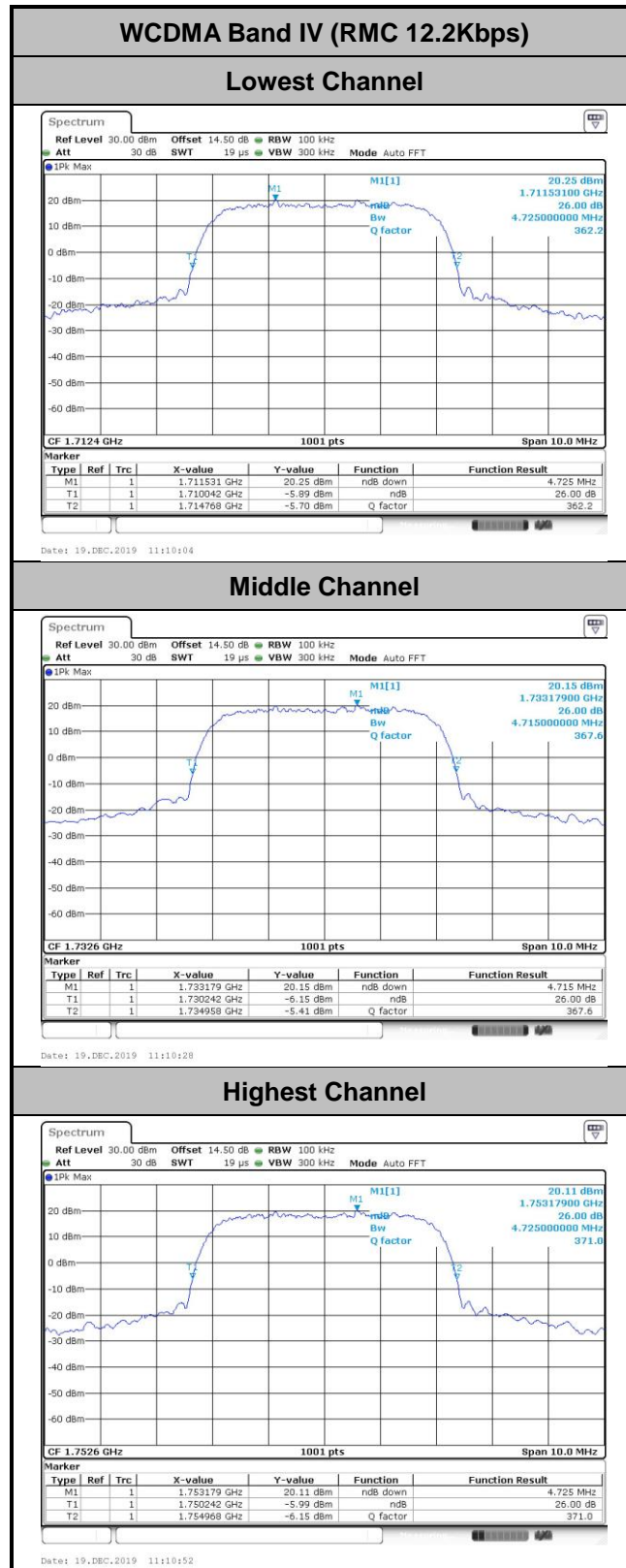


Date: 19_DEC.2019 10:56:44

Highest Channel



Date: 19_DEC.2019 11:21:25





Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15	4.14
Middle CH	4.14	4.14	4.14
Highest CH	4.14	4.14	4.14