



FCC RF Test Report

APPLICANT : Lenovo (Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : Portable Tablet Computer
BRAND NAME : Lenovo
MODEL NAME : TB352XU
FCC ID : O57TB352XU
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Aug. 02, 2024 ~ Aug. 24, 2024

We, Sporton International Inc. (Shenzhen), 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 Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT 4

1 GENERAL DESCRIPTION 5

 1.1 Applicant..... 5

 1.2 Manufacturer 5

 1.3 Product Feature of Equipment Under Test 5

 1.4 Product Specification of Equipment Under Test 6

 1.5 Modification of EUT 6

 1.6 Maximum ERP/EIRP Power, and Emission Designator 7

 1.7 Testing Location 8

 1.8 Test Software 8

 1.9 Applicable Standards 9

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST 10

 2.1 Test Mode..... 10

 2.2 Connection Diagram of Test System 11

 2.3 Support Unit used in test configuration 11

 2.4 Measurement Results Explanation Example 12

 2.5 Frequency List of Low/Middle/High Channels..... 13

3 CONDUCTED TEST RESULT..... 14

 3.1 Measuring Instruments..... 14

 3.2 Test Setup 14

 3.3 Test Result of Conducted Test..... 14

 3.4 Conducted Output Power and ERP/EIRP 15

 3.5 Peak-to-Average Ratio 16

 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement..... 17

 3.7 Conducted Band Edge 18

 3.8 Conducted Spurious Emission 19

 3.9 Frequency Stability..... 20

4 RADIATED TEST ITEMS 21

 4.1 Measuring Instruments..... 21

 4.2 Test Setup 21

 4.3 Test Result of Radiated Test..... 22

 4.4 Field Strength of Spurious Radiation Measurement 23

5 LIST OF MEASURING EQUIPMENT 24

6 MEASUREMENT UNCERTAINTY 25

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG411806-02A	Rev. 01	Initial issue of report	Aug. 30, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 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)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	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		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a);	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 42.64 dB at 7520.00 MHz

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road,China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place979 King's Road, Quarry Bay, Hong Kong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	TB352XU
FCC ID	O57TB352XU
IMEI Code	Conducted: 868752070004053 Radiation: 868752070009508
HW Version	TB352XU
SW Version	TB352XU_RF01_20240729
EUT Stage	Identical Prototype

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	GSM/GPRS/EDGE: 850: 824 MHz ~ 849 MHz 1900: 1850MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990 MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.93 dBm 1900: 30.00 dBm WCDMA: Band V: 23.58 dBm Band II: 23.60 dBm
Antenna Type	IFA_Metal Antenna
Antenna Gain	Cellular Band: -0.5 dBi PCS Band: 0.5 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power, and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)	Emission Designator
Part 22	GSM850 (GSM)	824.2 ~ 848.8	GMSK	1.0666	243KGXW
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.2999	247KG7W
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.1239	4M14F9W
Part 24	GSM1900 (GSM)	1850.2 ~ 1909.8	GMSK	1.122	243KGXW
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.5408	246KG7W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.257	4M15F9W



1.7 Testing Location

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

Test Firm	Sporton International Inc. (ShenZhen)		
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 Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	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 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:

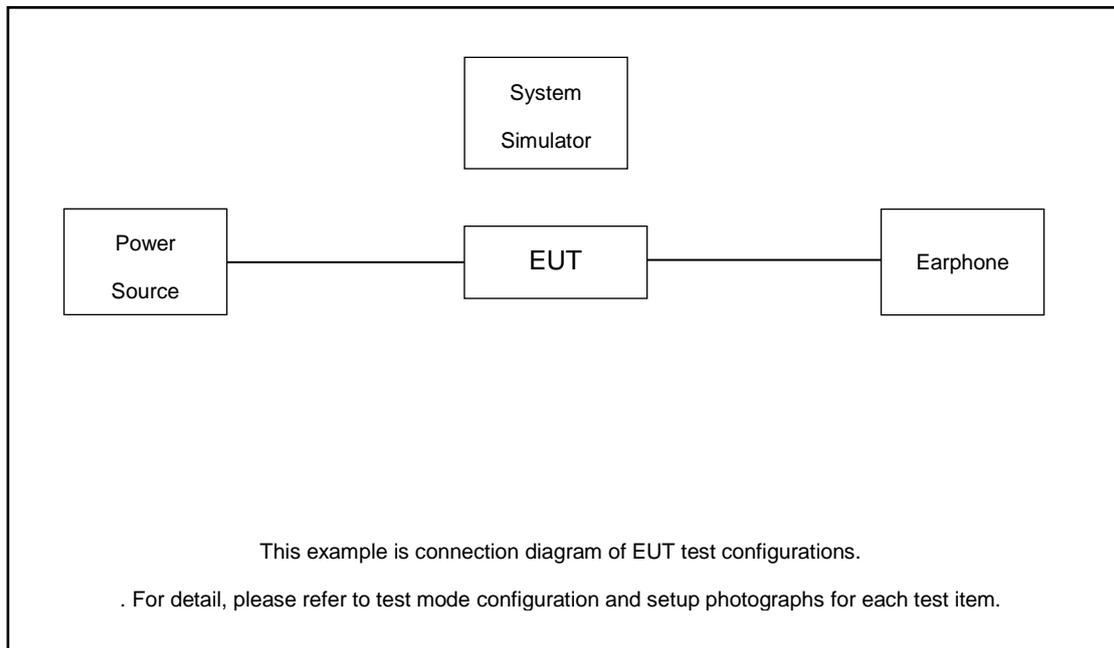
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1 Tx slots Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1 Tx slots Link
GSM 1900	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1 Tx slots Link 	<ul style="list-style-type: none"> ■ GSM Link ■ EDGE 1 Tx 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

2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m



2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 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

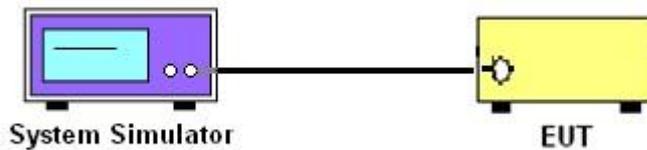
3 Conducted Test Result

3.1 Measuring Instruments

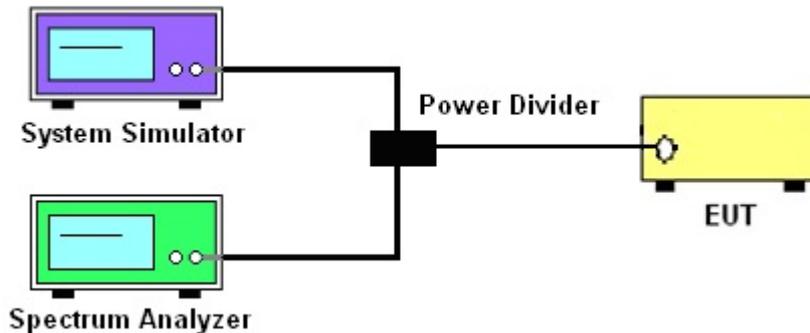
See list of measuring instruments of this test report.

3.2 Test Setup

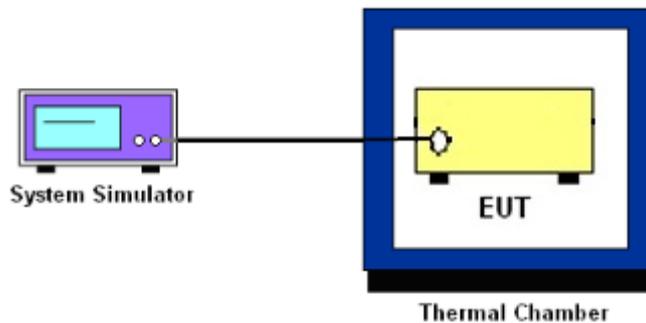
3.2.1 Conducted Output Power



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.

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

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.

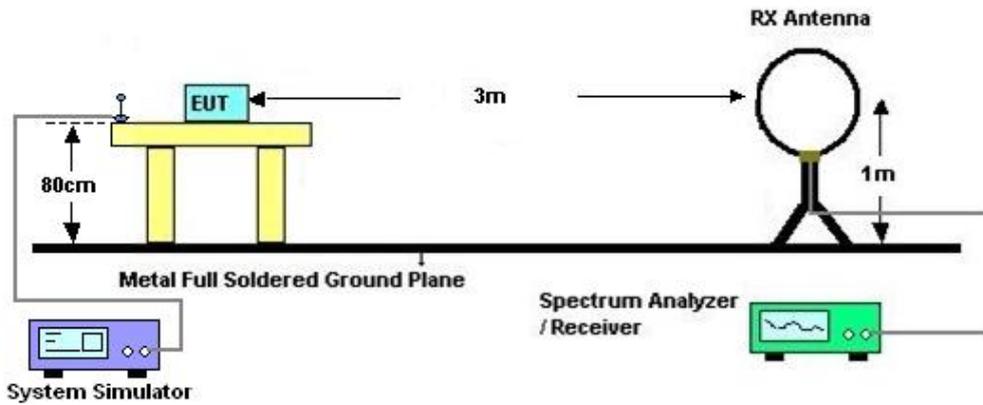
4 Radiated Test Items

4.1 Measuring Instruments

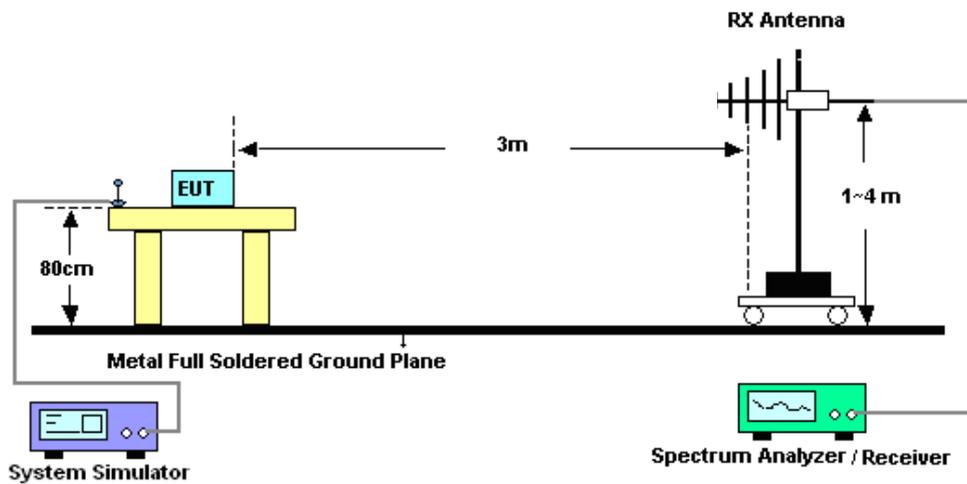
See list of measuring instruments of this test report.

4.2 Test Setup

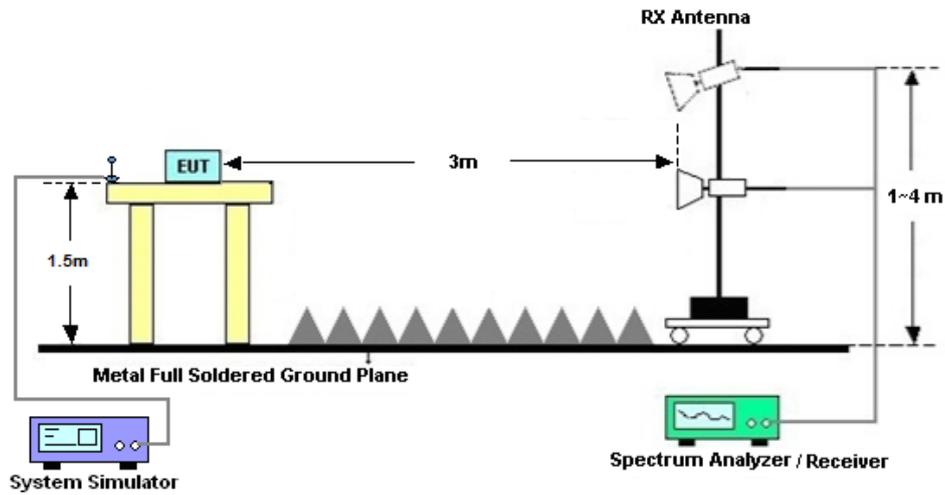
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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. 09, 2024	Aug. 17, 2024~ Aug. 24, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Aug. 17, 2024~ Aug. 24, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Aug. 17, 2024~ Aug. 24, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Aug. 02, 2024~ Aug. 15, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Aug. 02, 2024~ Aug. 15, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Aug. 02, 2024~ Aug. 15, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Aug. 02, 2024~ Aug. 15, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Aug. 02, 2024~ Aug. 15, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Aug. 02, 2024~ Aug. 15, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Aug. 02, 2024~ Aug. 15, 2024	Jul.02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 09, 2024	Aug. 02, 2024~ Aug. 15, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Aug. 02, 2024~ Aug. 15, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Aug. 02, 2024~ Aug. 15, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 02, 2024~ Aug. 15, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 02, 2024~ Aug. 15, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required



6 Measurement Uncertainty

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 Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 Hz

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

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)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6 dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8 dB
---	--------

----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and ERP/EIRP

GSM850

				FCC Limit(W):		
GSM850	Burst Average Power (dBm)			ERP(W)		
TX Channel	128	189	251			
Frequency (MHz)	824.2	836.4	848.8	L	M	H
GSM 1 Tx slot	32.78	32.93	32.80	1.0304	1.0666	1.0351
GPRS 1 Tx slot	32.75	32.90	32.78	1.0233	1.0593	1.0304
GPRS 2 Tx slots	32.63	32.70	32.65	0.9954	1.0116	1.0000
GPRS 3 Tx slots	29.23	29.28	29.25	0.4550	0.4603	0.4571
GPRS 4 Tx slots	27.28	27.34	27.31	0.2904	0.2944	0.2924
EDGE 1 Tx slot	27.35	27.42	27.33	0.2951	0.2999	0.2938
EDGE 2 Tx slots	27.28	27.40	27.31	0.2904	0.2985	0.2924
EDGE 3 Tx slots	24.25	24.31	24.23	0.1445	0.1466	0.1439
EDGE 4 Tx slots	22.73	22.78	22.68	0.1019	0.1030	0.1007



GSM1900

FCC Limit(W):						
GSM1900	Burst Average Power (dBm)			EIRP(W)		
TX Channel	512	661	810			
Frequency (MHz)	1850.2	1880	1909.8	L	M	H
GSM 1 Tx slot	29.95	30.00	29.83	1.1092	1.1220	1.0789
GPRS 1 Tx slot	29.94	29.98	29.81	1.1066	1.1169	1.0740
GPRS 2 Tx slots	29.83	29.86	29.73	1.0789	1.0864	1.0544
GPRS 3 Tx slots	26.81	26.95	26.71	0.5383	0.5559	0.5260
GPRS 4 Tx slots	24.88	24.95	24.78	0.3451	0.3508	0.3373
EDGE 1 Tx slot	26.80	26.83	26.79	0.5370	0.5408	0.5358
EDGE 2 Tx slots	26.76	26.73	26.71	0.5321	0.5284	0.5260
EDGE 3 Tx slots	23.21	23.41	23.20	0.2350	0.2460	0.2344
EDGE 4 Tx slots	22.36	22.44	22.20	0.1932	0.1968	0.1862



WCAMA Band V

		FCC Limit(W):					
Band		WCDMA V			ERP(W)		
TX Channel		4132	4182	4233			
Rx Channel		4357	4407	4458			
Frequency (MHz)		826.4	836.4	846.6	L	M	H
3GPP Rel 99	AMR 12.2Kbps	23.55	23.56	23.51	0.1230	0.1233	0.1219
3GPP Rel 99	RMC 12.2Kbps	23.56	23.58	23.53	0.1233	0.1239	0.1225
3GPP Rel 6	HSDPA Subtest-1	22.60	22.53	22.79	0.0989	0.0973	0.1033
3GPP Rel 6	HSDPA Subtest-2	22.60	22.54	22.46	0.0989	0.0975	0.0957
3GPP Rel 6	HSDPA Subtest-3	22.10	22.05	22.27	0.0881	0.0871	0.0916
3GPP Rel 6	HSDPA Subtest-4	22.08	22.05	22.25	0.0877	0.0871	0.0912
3GPP Rel 8	DC-HSDPA Subtest-1	22.46	22.43	22.67	0.0957	0.0951	0.1005
3GPP Rel 8	DC-HSDPA Subtest-2	22.52	22.45	22.39	0.0971	0.0955	0.0942
3GPP Rel 8	DC-HSDPA Subtest-3	22.09	21.92	22.14	0.0879	0.0845	0.0889
3GPP Rel 8	DC-HSDPA Subtest-4	22.05	21.97	22.22	0.0871	0.0855	0.0906
3GPP Rel 6	HSUPA Subtest-1	22.49	22.48	22.52	0.0964	0.0962	0.0971
3GPP Rel 6	HSUPA Subtest-2	20.50	20.45	20.53	0.0610	0.0603	0.0614
3GPP Rel 6	HSUPA Subtest-3	21.51	21.41	21.55	0.0769	0.0752	0.0776
3GPP Rel 6	HSUPA Subtest-4	20.48	20.42	20.53	0.0607	0.0598	0.0614
3GPP Rel 6	HSUPA Subtest-5	22.50	22.40	22.50	0.0966	0.0944	0.0966
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.61	19.68	19.70	0.0497	0.0505	0.0507



WCAMA Band II

		FCC Limit(W):					
Band		WCDMA II			EIRP(W)		
TX Channel		9262	9400	9538			
Rx Channel		9662	9800	9938			
Frequency (MHz)		1852.4	1880	1907.6	L	M	H
3GPP Rel 99	AMR 12.2Kbps	23.57	23.58	23.53	0.2553	0.2559	0.2529
3GPP Rel 99	RMC 12.2Kbps	23.59	23.60	23.56	0.2564	0.2570	0.2547
3GPP Rel 6	HSDPA Subtest-1	22.61	22.54	22.49	0.2046	0.2014	0.1991
3GPP Rel 6	HSDPA Subtest-2	22.62	22.57	22.47	0.2051	0.2028	0.1982
3GPP Rel 6	HSDPA Subtest-3	22.10	22.07	21.97	0.1820	0.1807	0.1766
3GPP Rel 6	HSDPA Subtest-4	22.07	22.06	21.96	0.1807	0.1803	0.1762
3GPP Rel 8	DC-HSDPA Subtest-1	22.50	22.53	22.36	0.1995	0.2009	0.1932
3GPP Rel 8	DC-HSDPA Subtest-2	22.48	22.54	22.36	0.1986	0.2014	0.1932
3GPP Rel 8	DC-HSDPA Subtest-3	21.95	22.02	21.96	0.1758	0.1786	0.1762
3GPP Rel 8	DC-HSDPA Subtest-4	22.06	22.02	21.82	0.1803	0.1786	0.1706
3GPP Rel 6	HSUPA Subtest-1	22.64	22.58	22.57	0.2061	0.2032	0.2028
3GPP Rel 6	HSUPA Subtest-2	20.68	20.63	20.55	0.1312	0.1297	0.1274
3GPP Rel 6	HSUPA Subtest-3	21.62	21.58	21.55	0.1629	0.1614	0.1603
3GPP Rel 6	HSUPA Subtest-4	20.62	20.58	20.55	0.1294	0.1282	0.1274
3GPP Rel 6	HSUPA Subtest-5	22.60	22.60	22.60	0.2042	0.2042	0.2042
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.75	19.80	19.69	0.1059	0.1072	0.1045



A1. GSM

Peak-to-Average Ratio

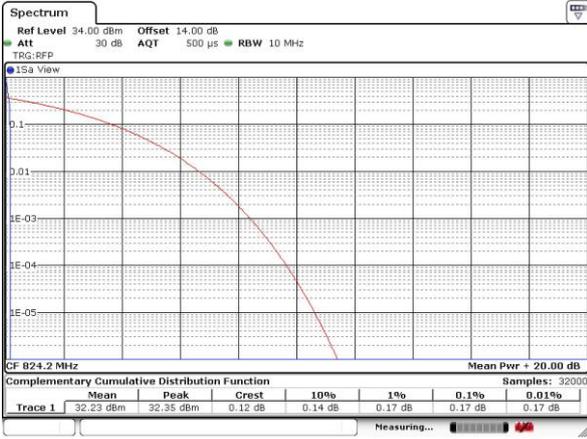
Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.17	3.27	PASS
Middle CH	0.17	3.42	
Highest CH	0.20	2.70	

Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.14	3.27	PASS
Middle CH	0.17	3.13	
Highest CH	0.14	3.30	



GSM850 (GSM)

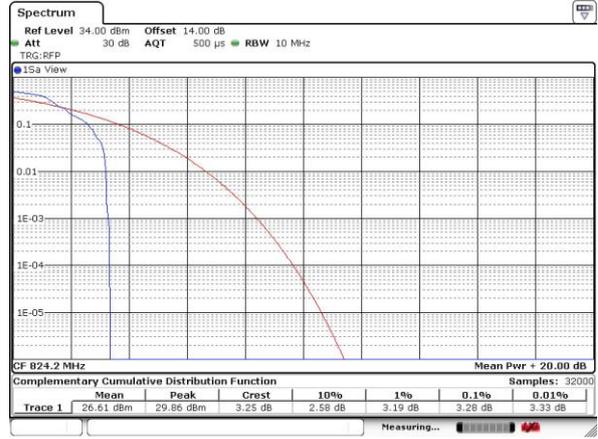
Lowest Channel



Date: 17.AUG.2024 10:33:35

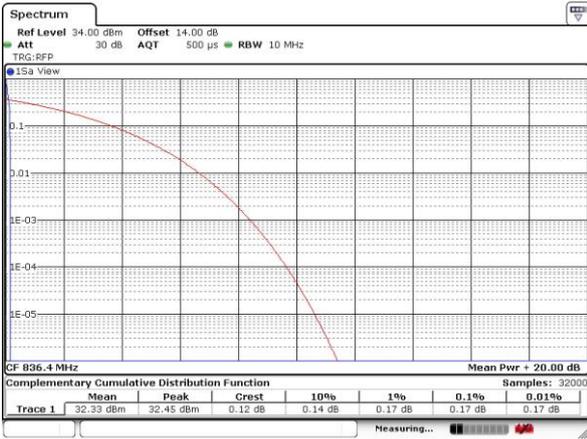
GSM850 (EDGE class 8)

Lowest Channel



Date: 17.AUG.2024 10:23:33

Middle Channel



Date: 17.AUG.2024 10:35:14

Middle Channel



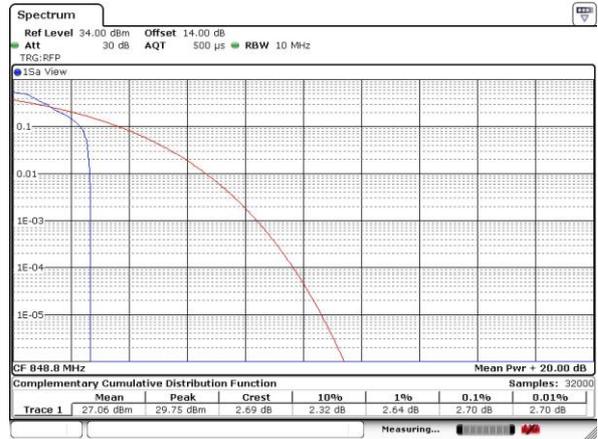
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Highest Channel

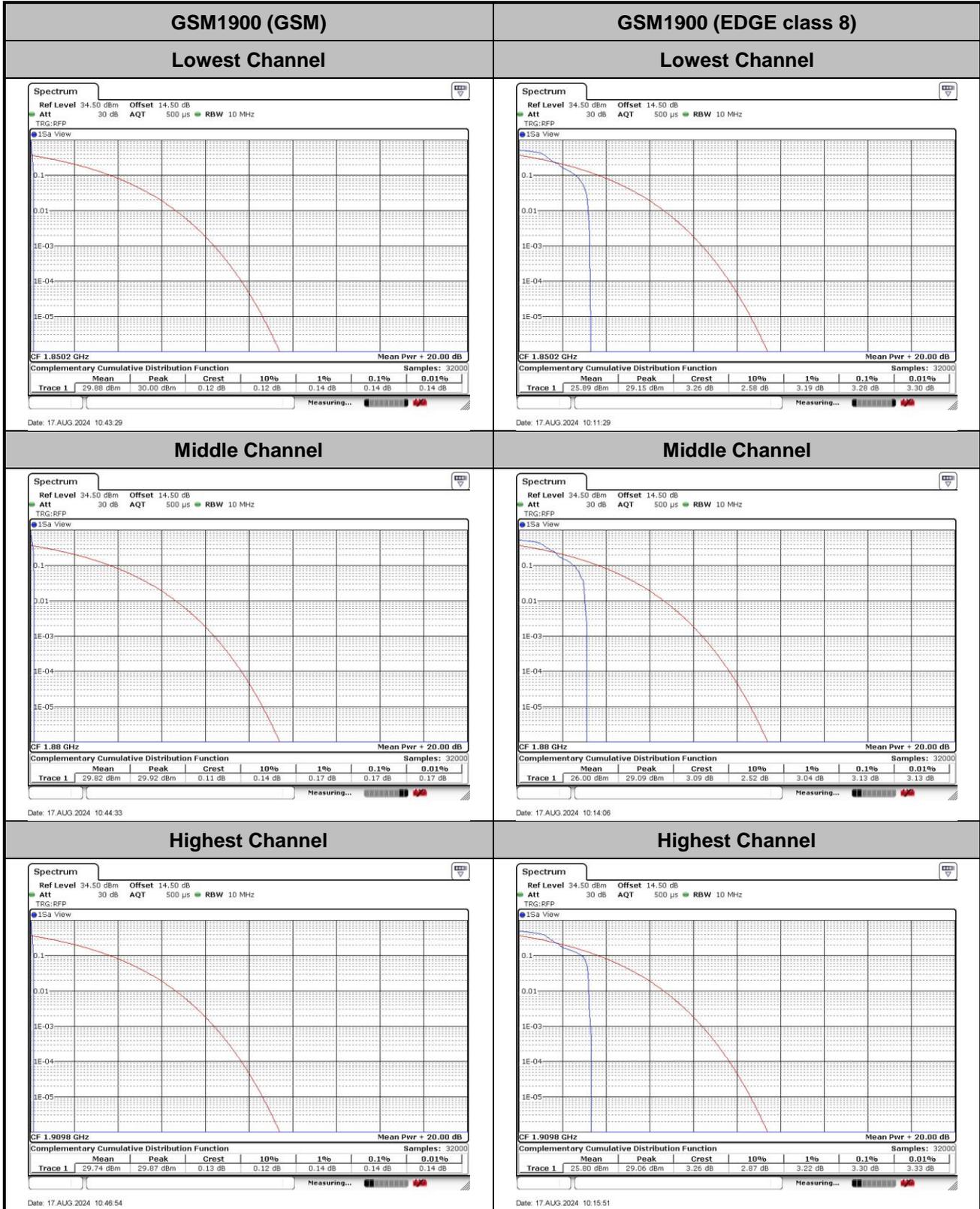


Date: 17.AUG.2024 10:36:38

Highest Channel



Date: 17.AUG.2024 10:26:56





26dB Bandwidth

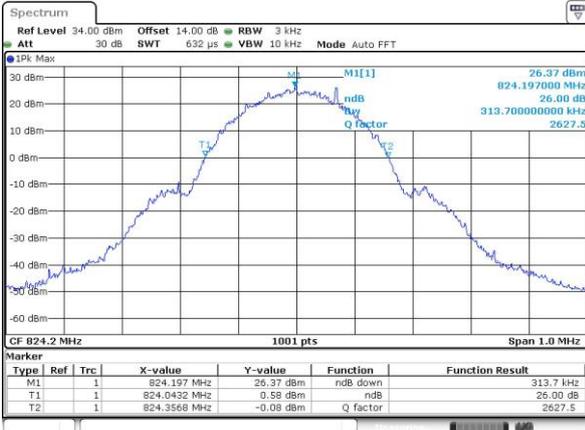
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.31	0.31
Middle CH	0.32	0.31
Highest CH	0.31	0.31

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.31	0.31
Middle CH	0.31	0.31
Highest CH	0.31	0.31



GSM850 (GSM)

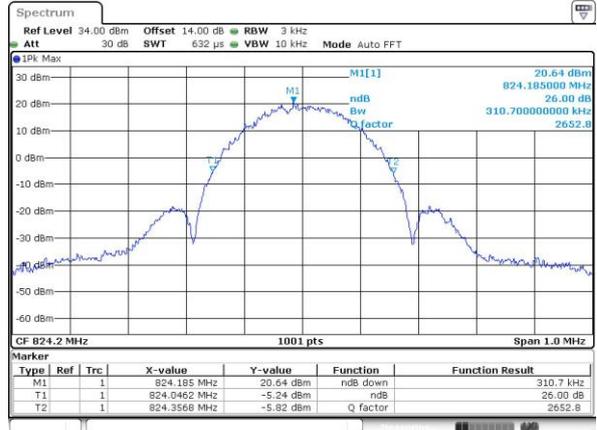
Lowest Channel



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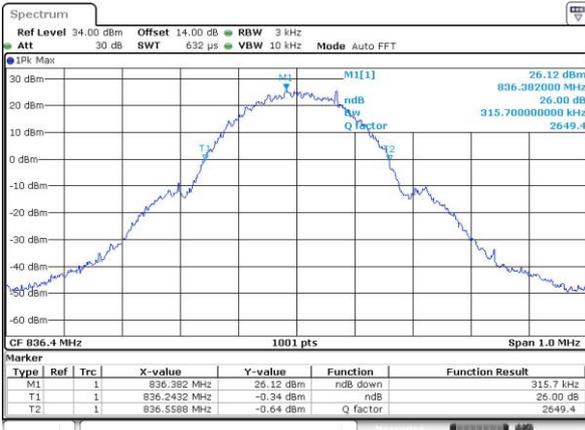
GSM850 (EDGE class 8)

Lowest Channel



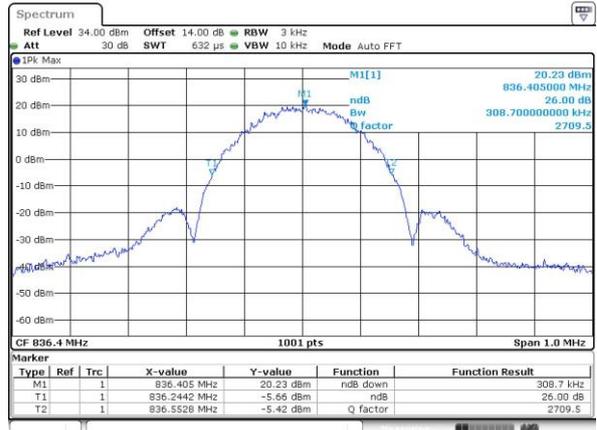
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Middle Channel



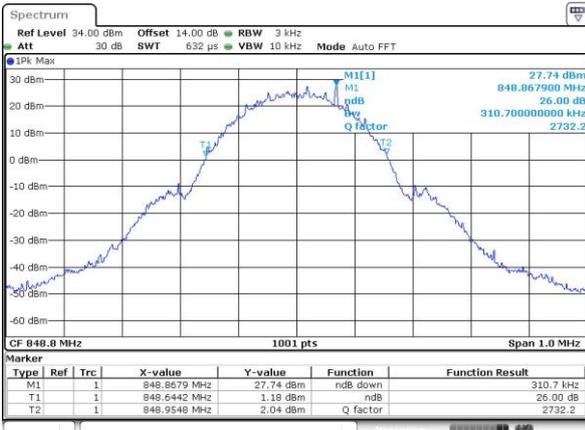
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Middle Channel



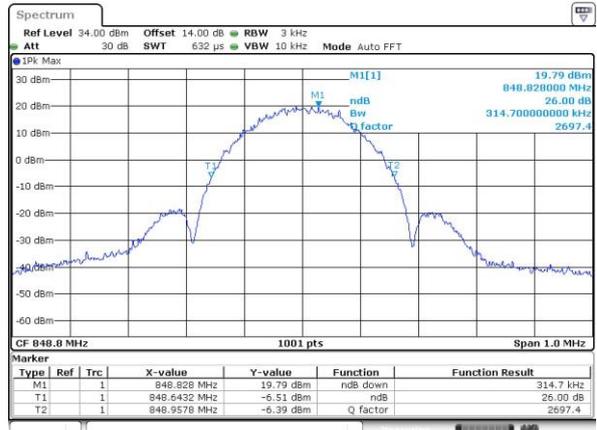
Date: 17.AUG.2024 10:24:16

Highest Channel



Date: 17.AUG.2024 10:35:42

Highest Channel



Date: 17.AUG.2024 10:25:57



GSM1900 (GSM)

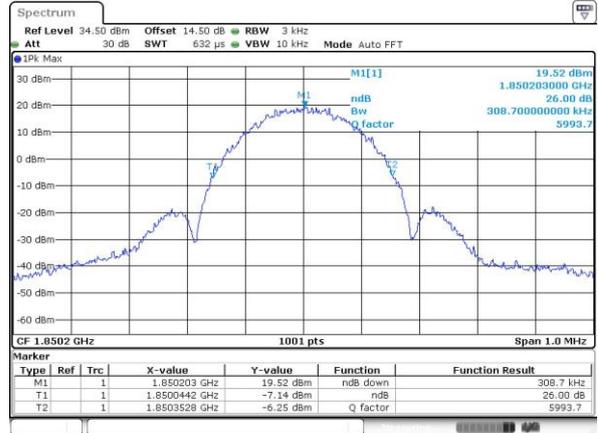
Lowest Channel



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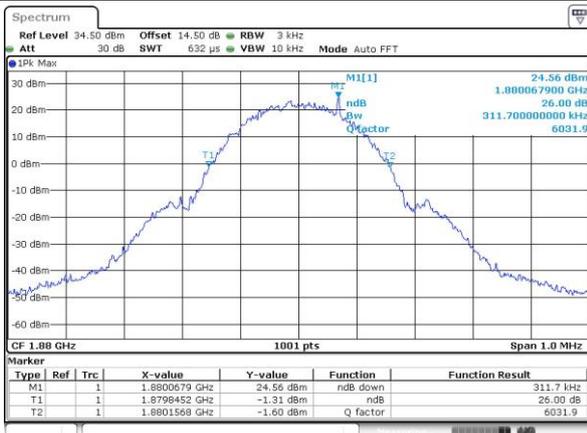
GSM1900 (EDGE class 8)

Lowest Channel



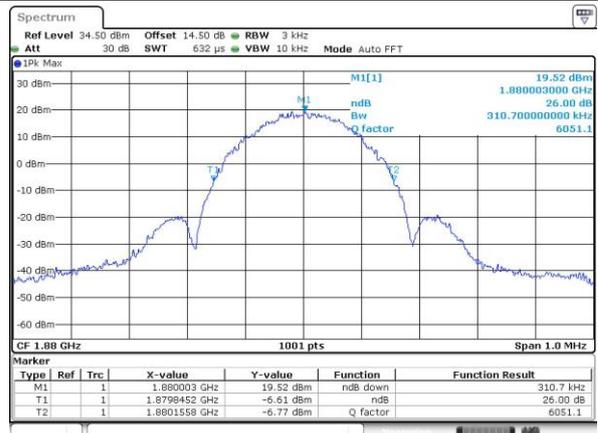
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Middle Channel



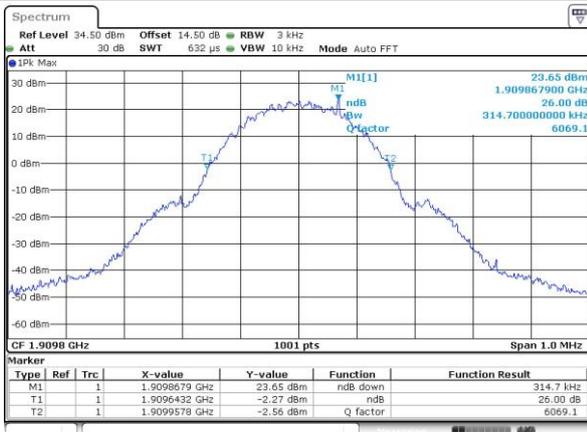
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Middle Channel



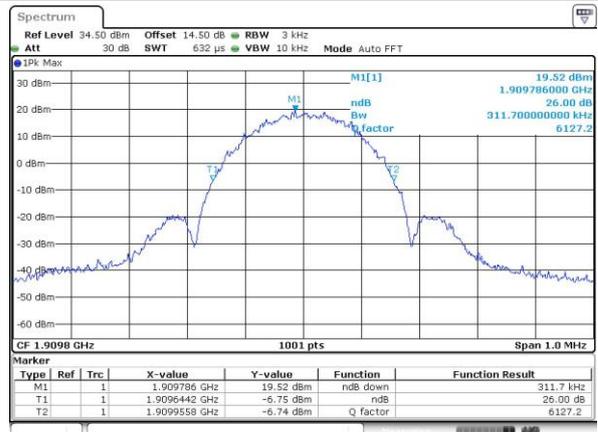
Date: 17.AUG.2024 10:12:55

Highest Channel



Date: 17.AUG.2024 10:45:39

Highest Channel



Date: 17.AUG.2024 10:14:38



Occupied Bandwidth

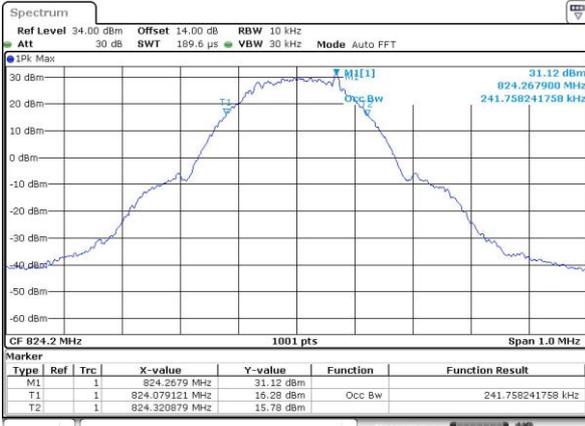
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.246
Middle CH	0.243	0.245
Highest CH	0.242	0.247

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.243	0.245
Middle CH	0.242	0.246
Highest CH	0.243	0.246



GSM850 (GSM)

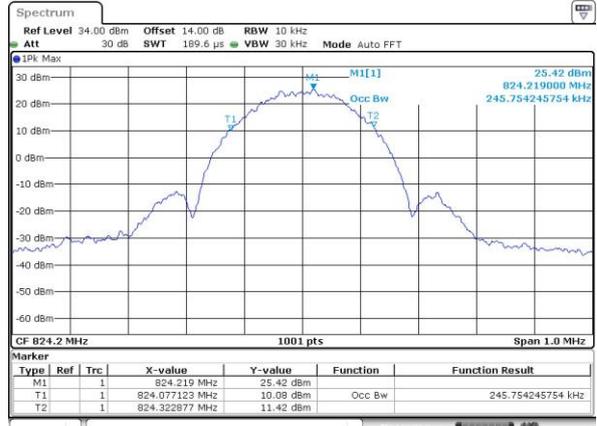
Lowest Channel



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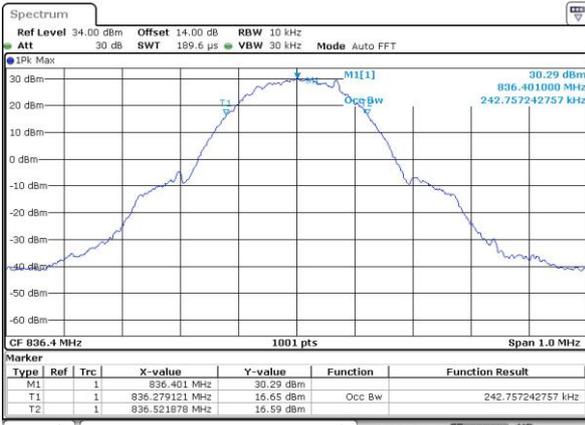
GSM850 (EDGE class 8)

Lowest Channel



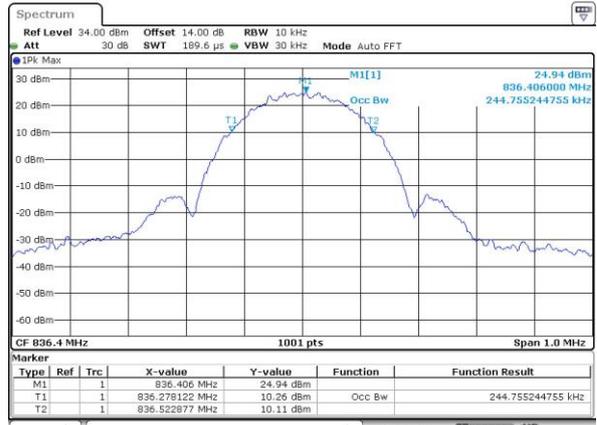
Date: 17.AUG.2024 10:20:58

Middle Channel



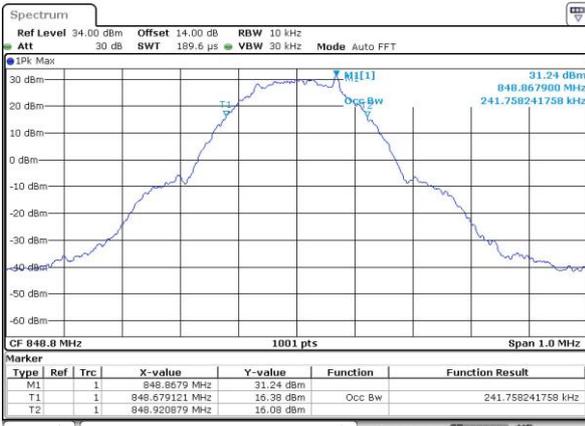
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Middle Channel



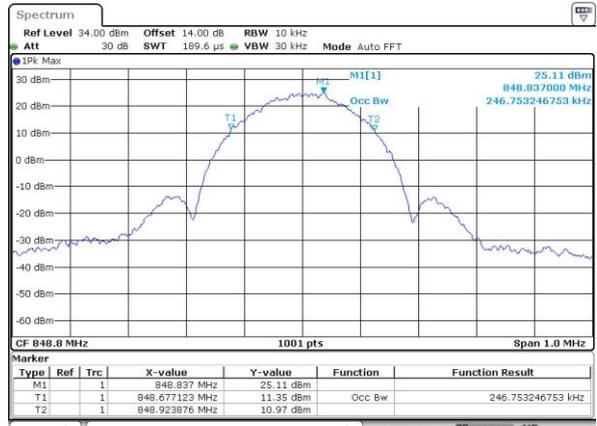
Date: 17.AUG.2024 10:24:40

Highest Channel



Date: 17.AUG.2024 10:36:02

Highest Channel



Date: 17.AUG.2024 10:26:17



GSM1900 (GSM)

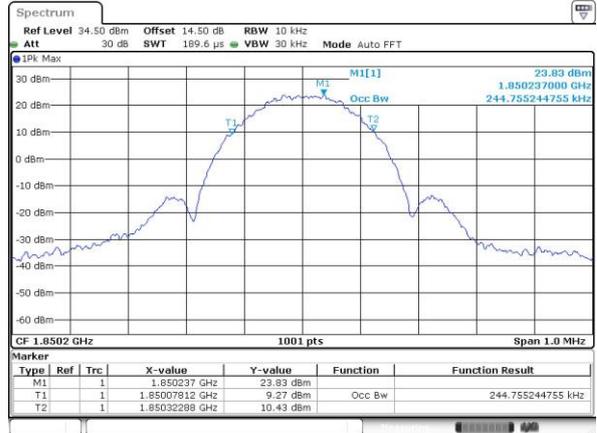
Lowest Channel



Date: 17.AUG.2024 10:41:03

GSM1900 (EDGE class 8)

Lowest Channel



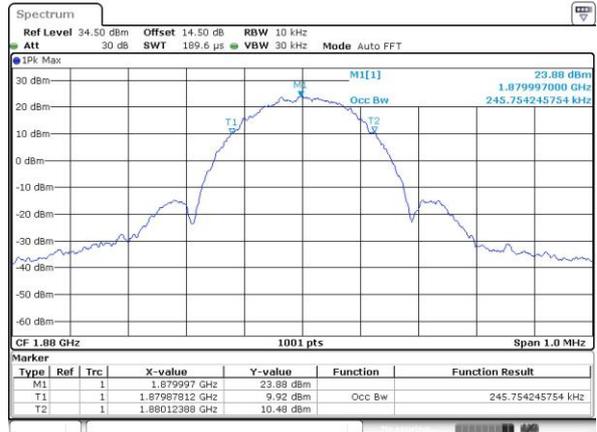
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Middle Channel



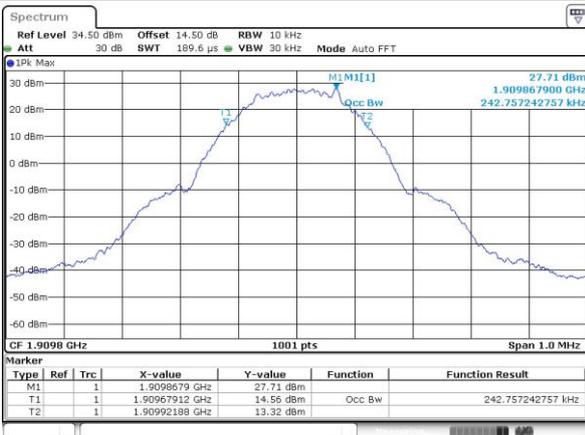
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Middle Channel



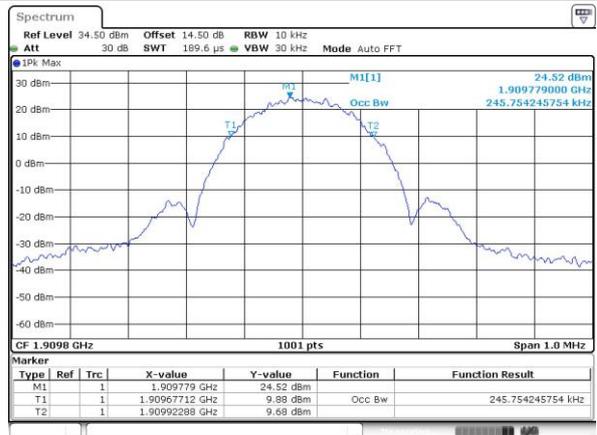
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Highest Channel



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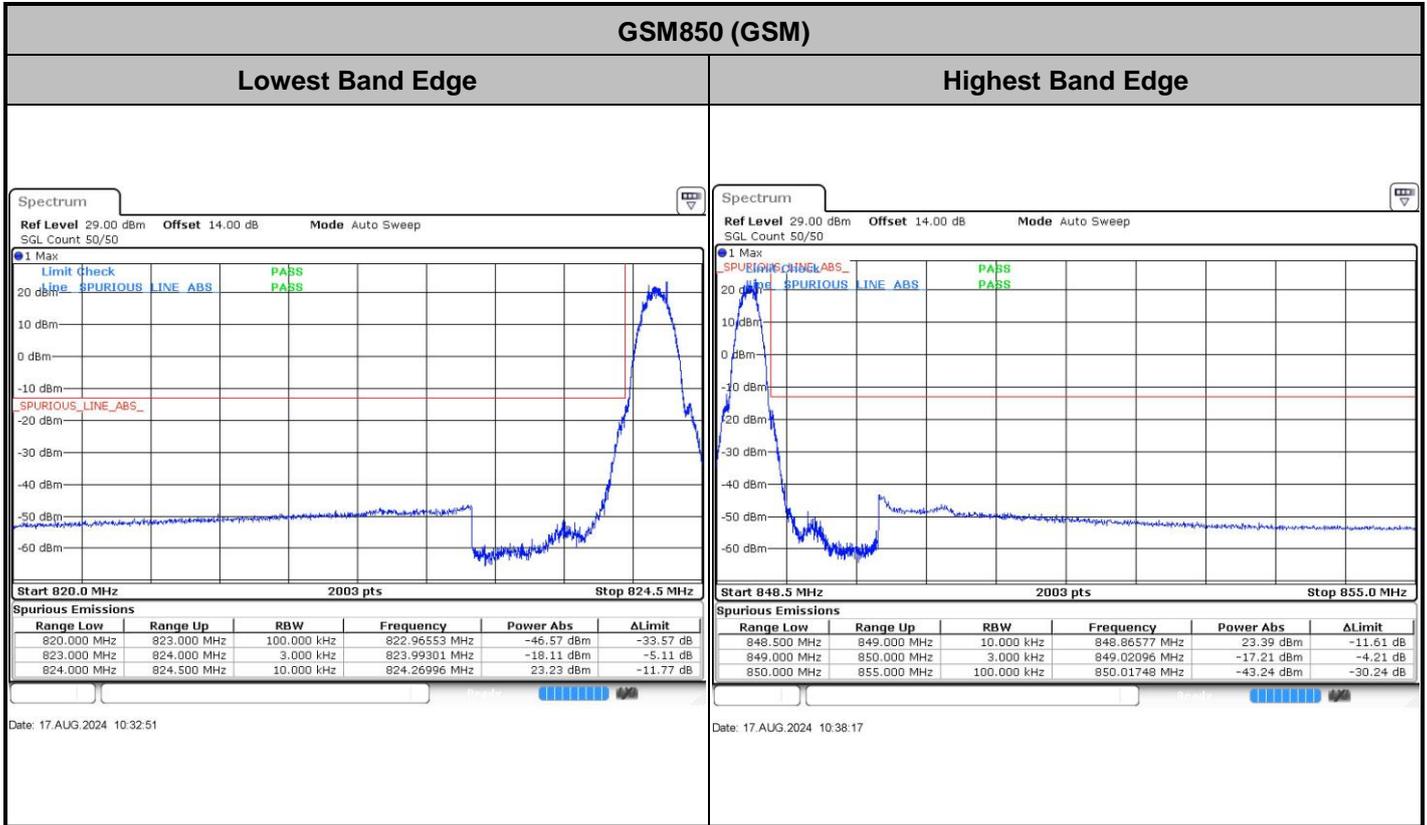
Highest Channel

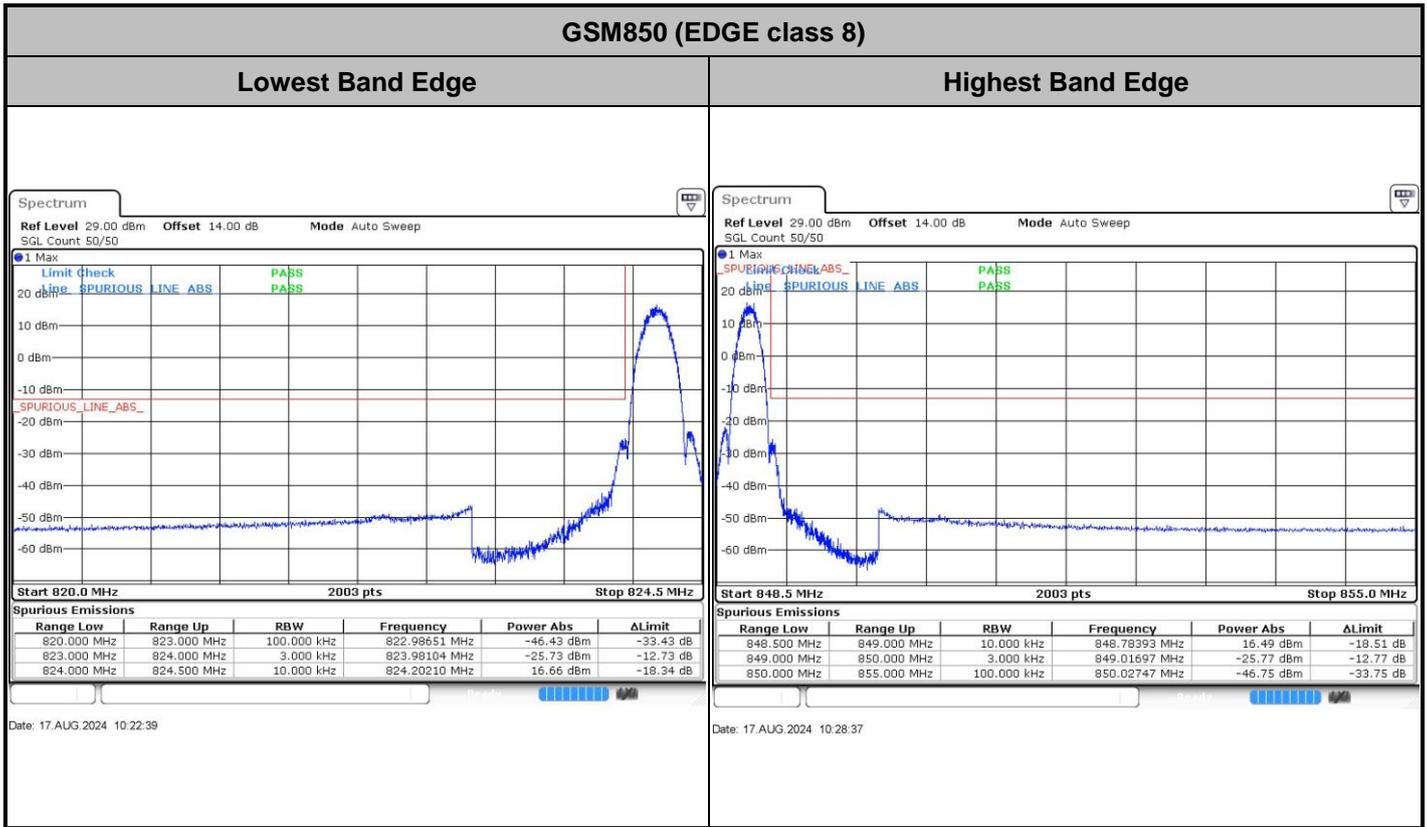


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Conducted Band Edge

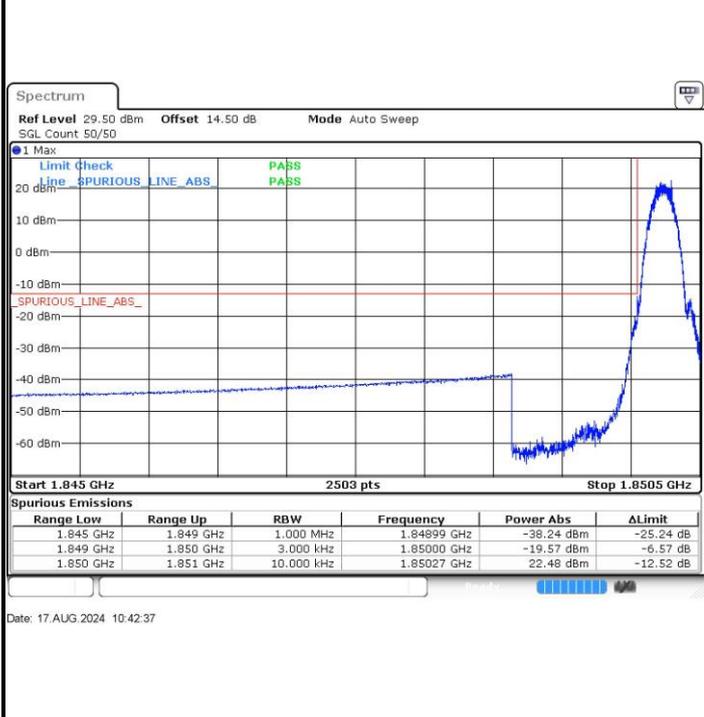




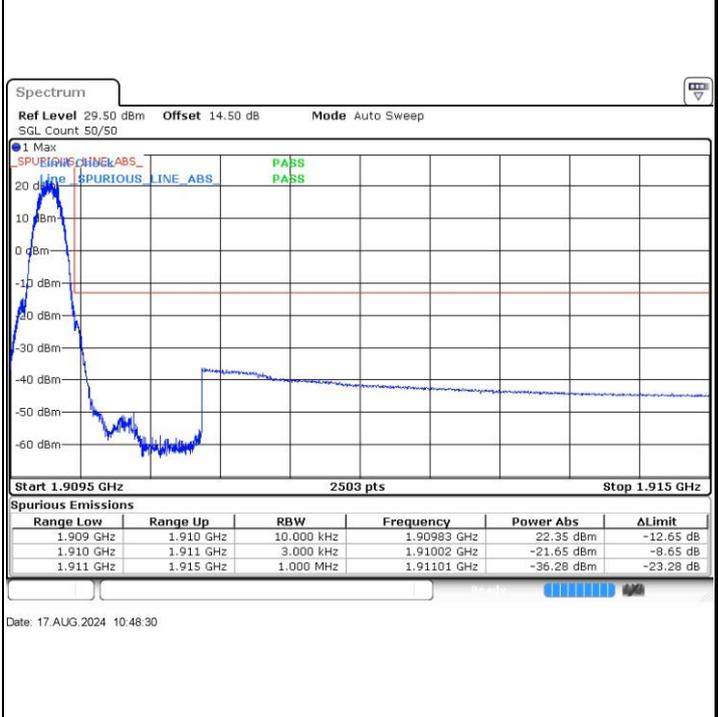


GSM1900 (GSM)

Lowest Band Edge

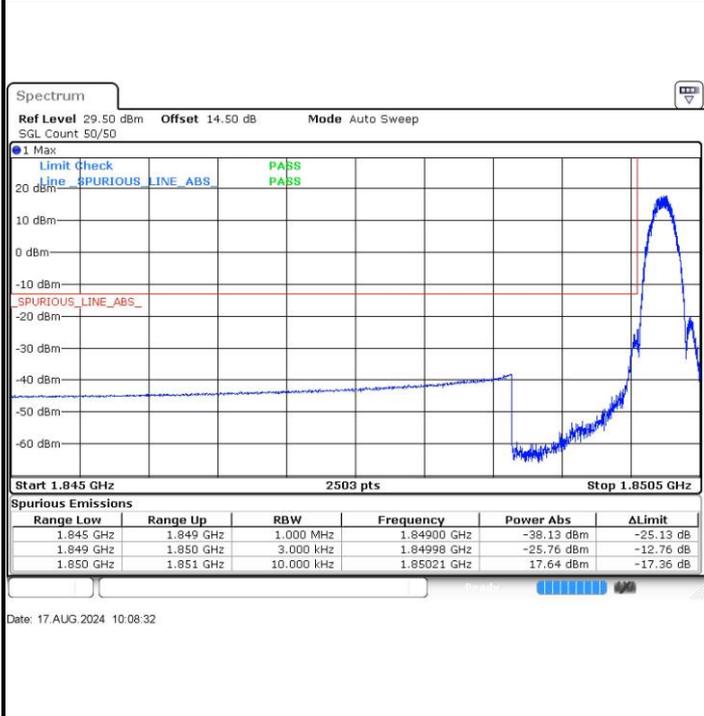


Highest Band Edge

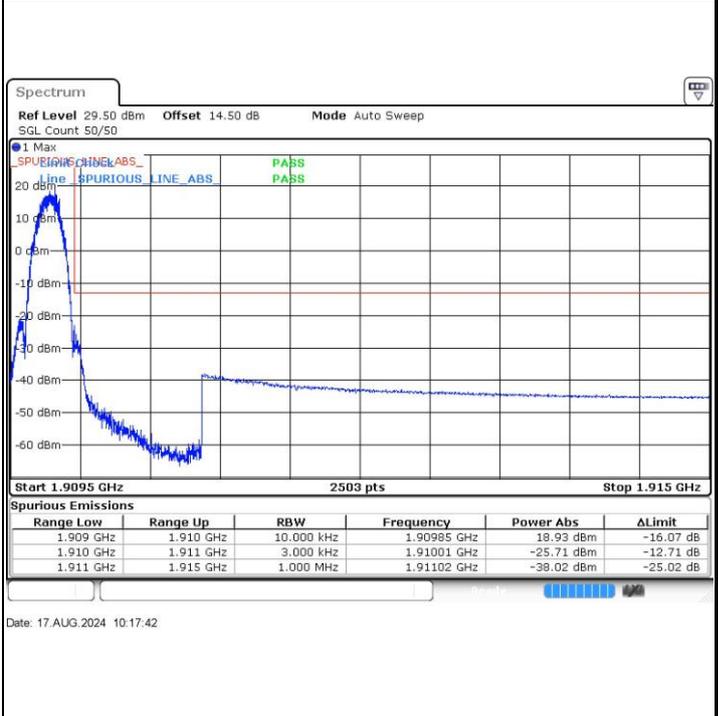


GSM1900 (EDGE class 8)

Lowest Band Edge

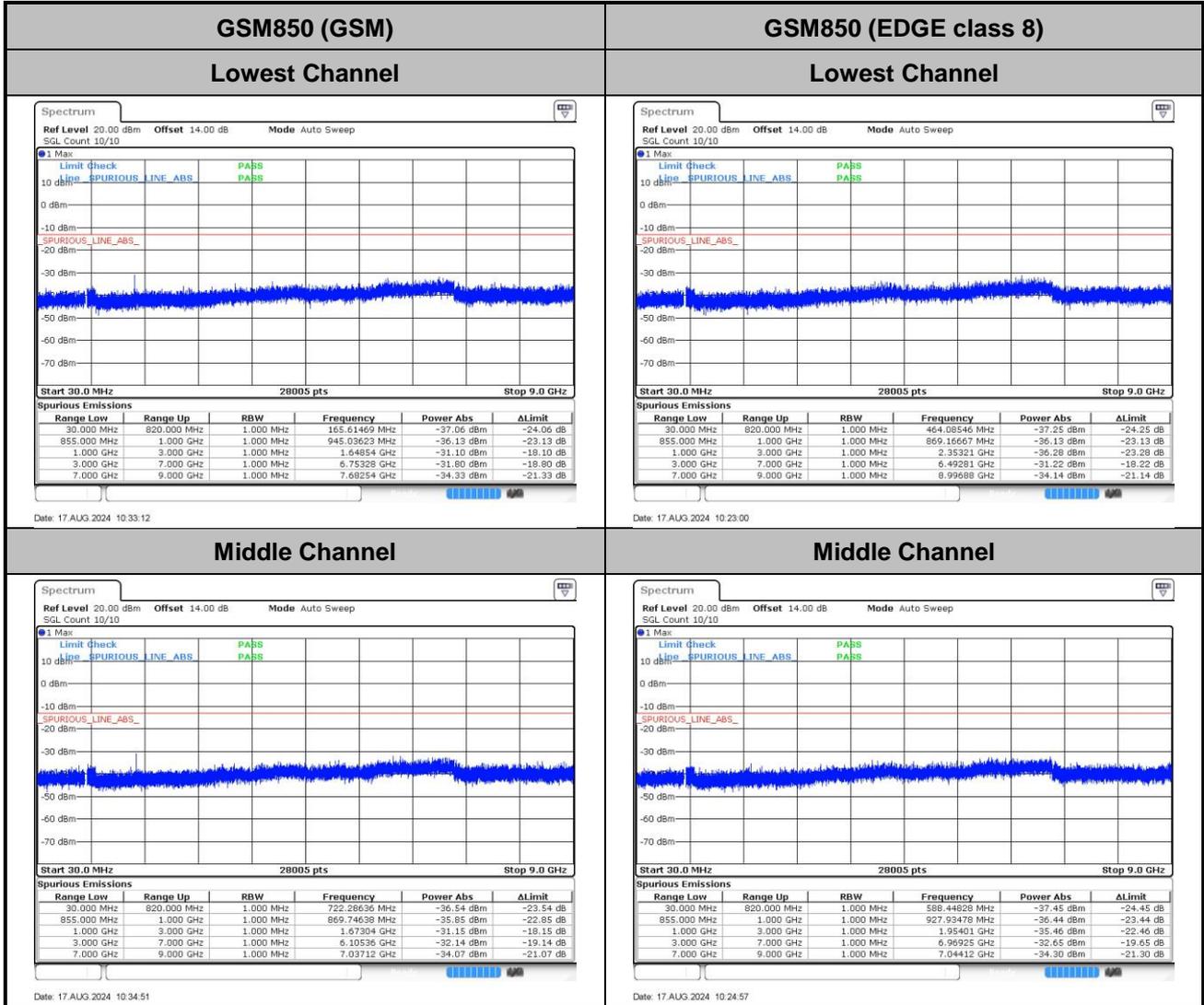


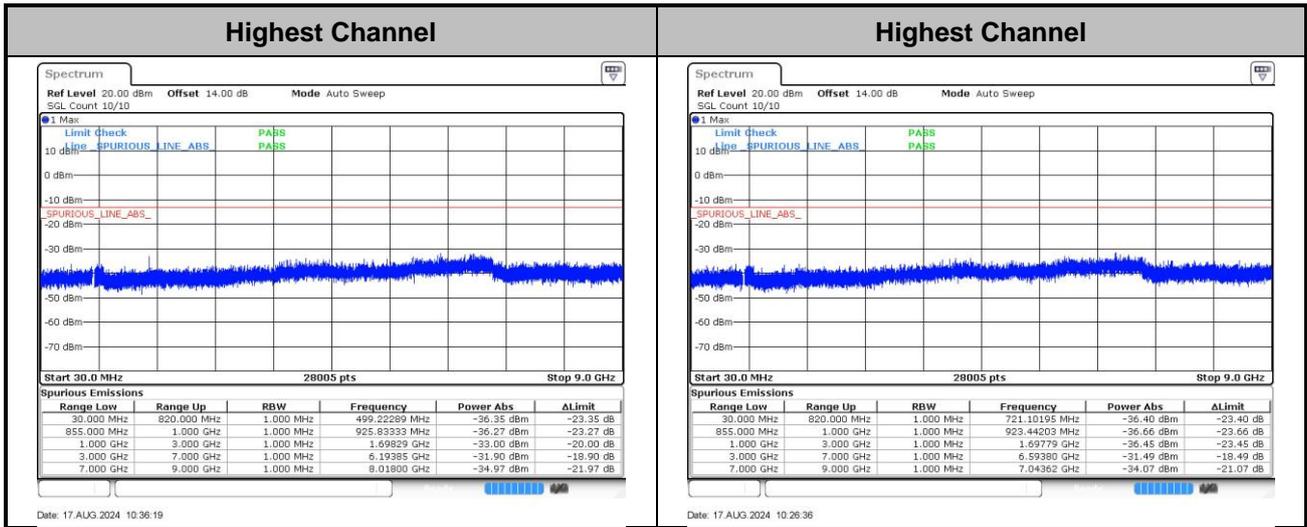
Highest Band Edge





Conducted Spurious Emission

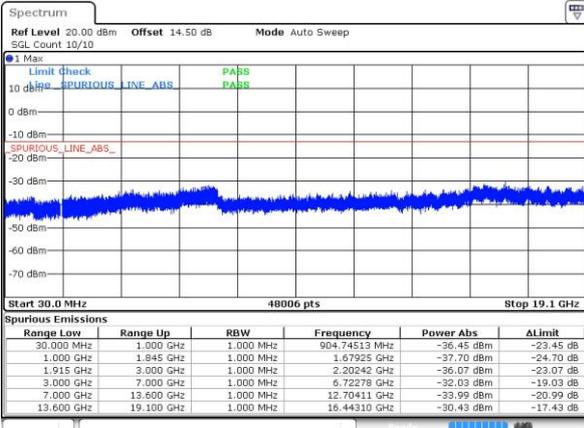






GSM1900 (GSM)

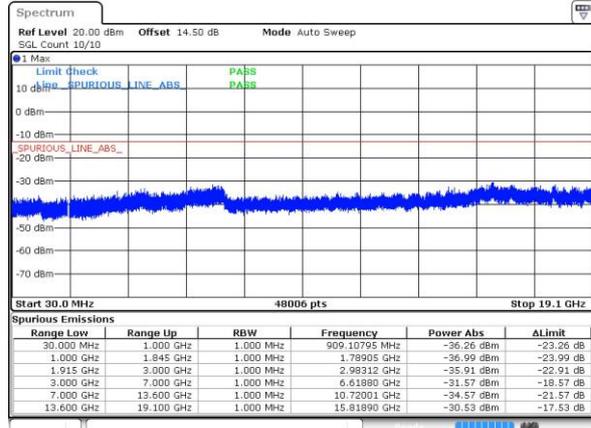
Lowest Channel



Date: 17 AUG 2024 10:43:06

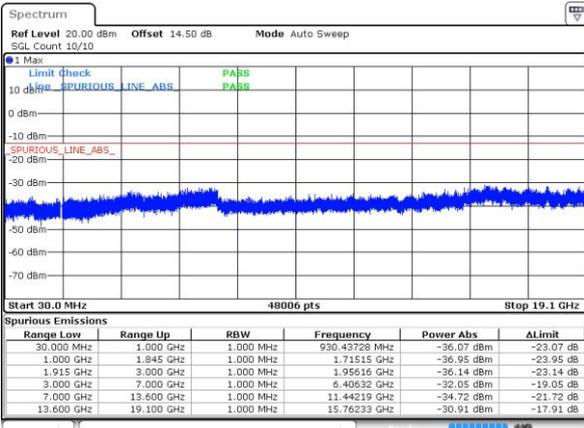
GSM1900 (EDGE class 8)

Lowest Channel



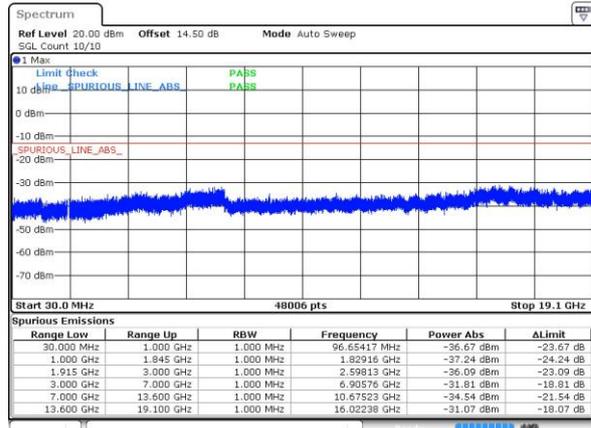
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Middle Channel



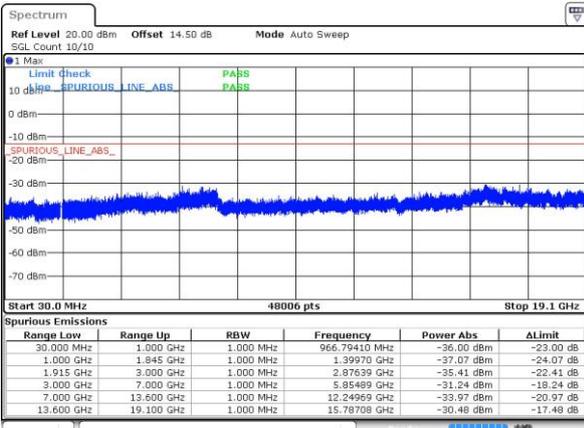
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Middle Channel



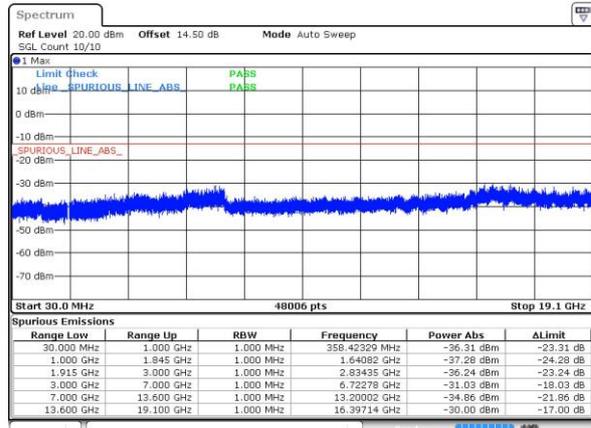
Date: 17 AUG 2024 10:13:34

Highest Channel



Date: 17 AUG 2024 10:46:35

Highest Channel



Date: 17 AUG 2024 10:15:19



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0019	0.0069	PASS
40	Normal Voltage	0.0012	0.0039	
30	Normal Voltage	0.0114	0.0008	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0020	0.0221	
0	Normal Voltage	0.0166	0.0197	
-10	Normal Voltage	0.0212	0.0069	
-20	Normal Voltage	0.0020	0.0016	
-30	Normal Voltage	0.0001	0.0071	
20	Maximum Voltage	0.0100	0.0002	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0115	0.0269	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0032	0.0036	PASS
40	Normal Voltage	0.0025	0.0018	
30	Normal Voltage	0.0099	0.0075	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0027	0.0041	
0	Normal Voltage	0.0085	0.0109	
-10	Normal Voltage	0.0098	0.0071	
-20	Normal Voltage	0.0081	0.0069	
-30	Normal Voltage	0.0002	0.0044	
20	Maximum Voltage	0.0092	0.0039	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0008	0.0043	

Note:

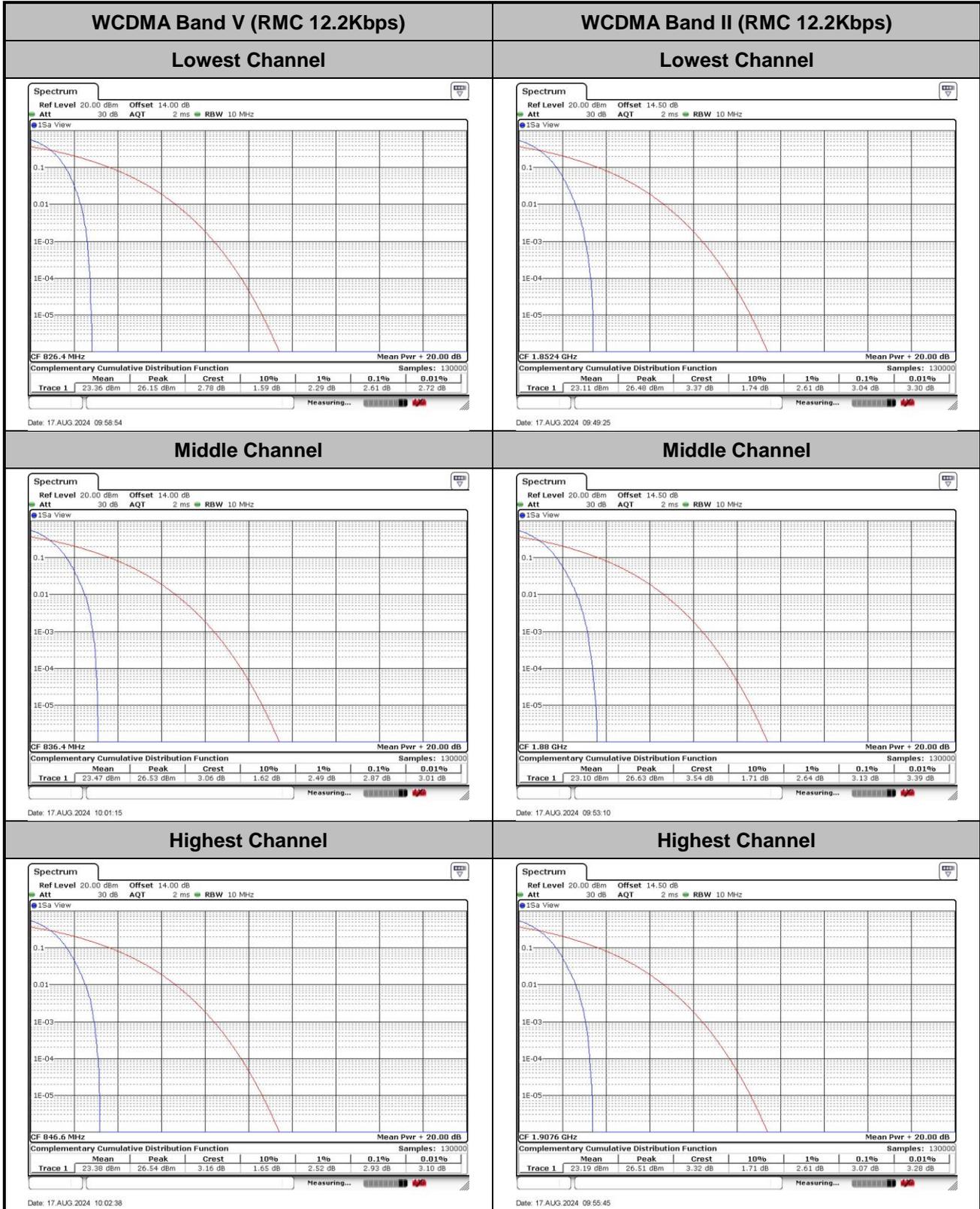
1. Normal Voltage = 3.91V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	-	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	-	Result
Lowest CH	2.61	3.04	-	PASS
Middle CH	2.87	3.13	-	
Highest CH	2.93	3.07	-	





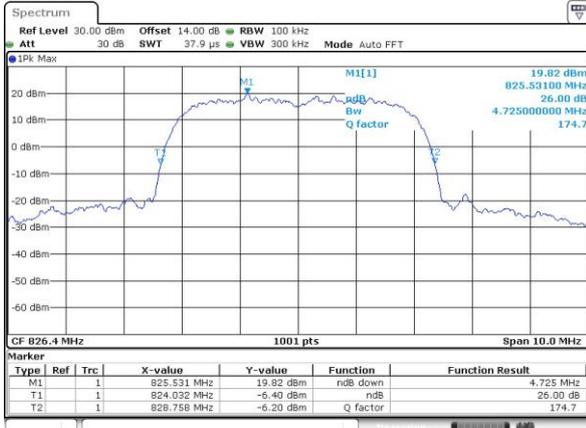
26dB Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	-
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	-
Lowest CH	4.72	4.71	-
Middle CH	4.72	4.71	-
Highest CH	4.71	4.71	-



WCDMA Band V (RMC 12.2Kbps)

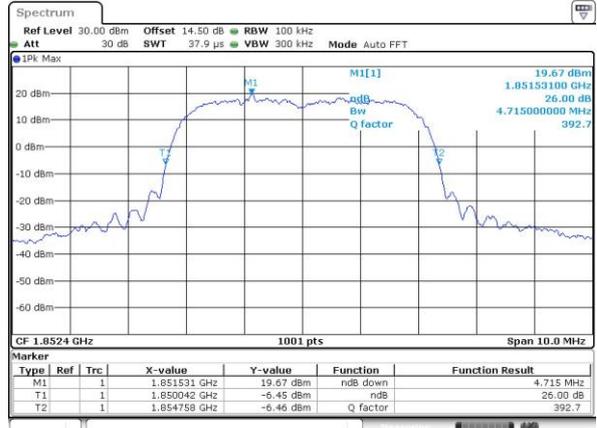
Lowest Channel



Date: 17.AUG.2024 09:57:52

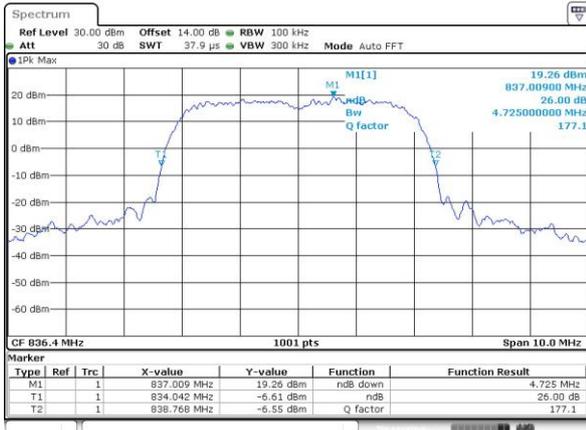
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



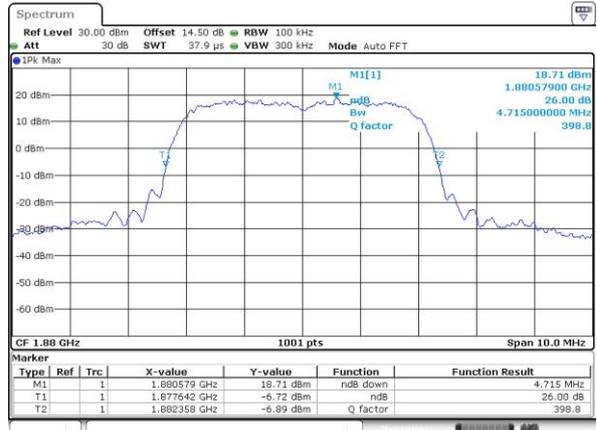
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Middle Channel



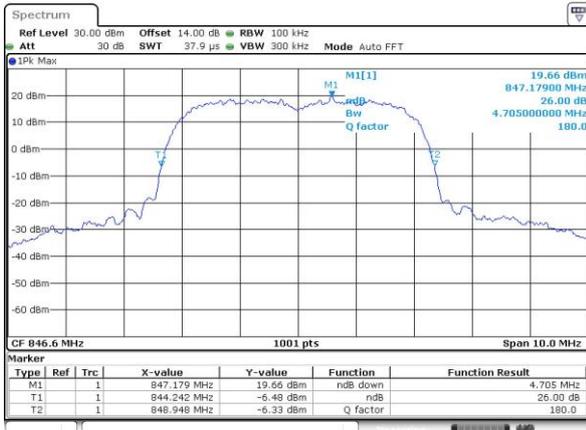
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Middle Channel



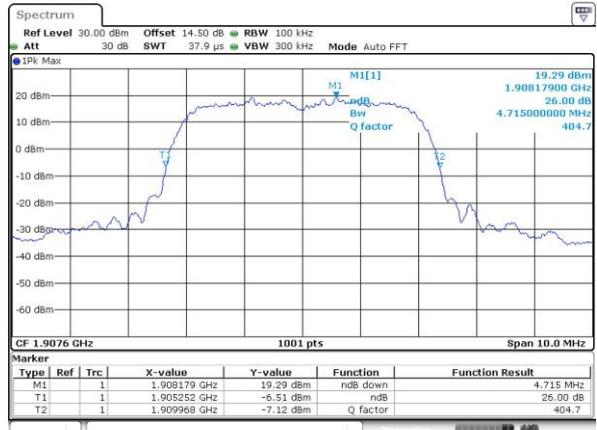
Date: 17.AUG.2024 09:50:05

Highest Channel



Date: 17.AUG.2024 10:01:49

Highest Channel



Date: 17.AUG.2024 09:53:57



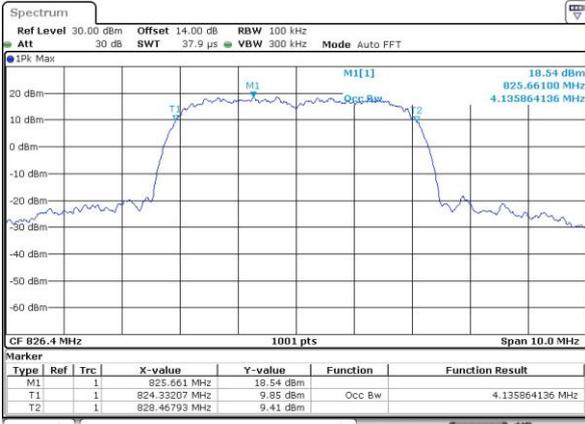
Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	-
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	-
Lowest CH	4.14	4.15	-
Middle CH	4.13	4.14	-
Highest CH	4.13	4.14	-



WCDMA Band V (RMC 12.2Kbps)

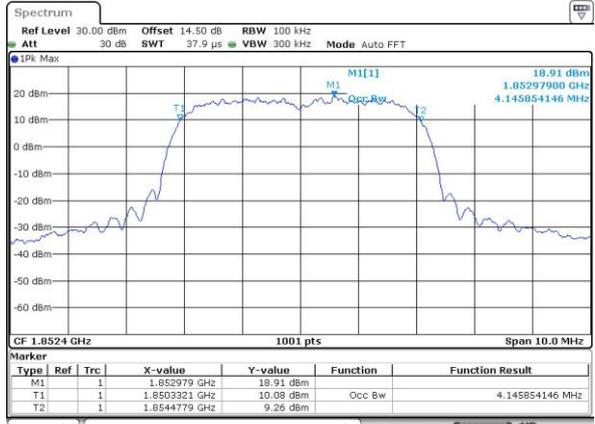
Lowest Channel



Date: 17.AUG.2024 09:58:15

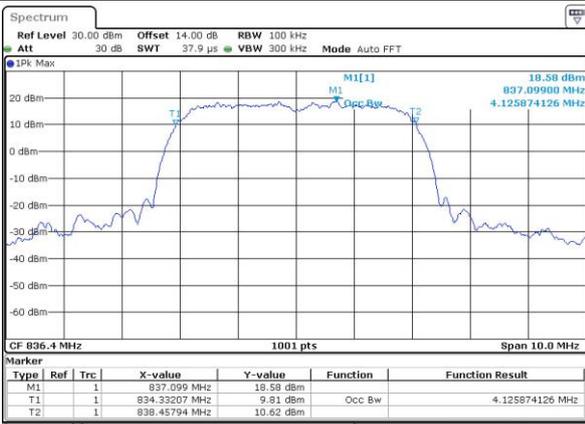
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



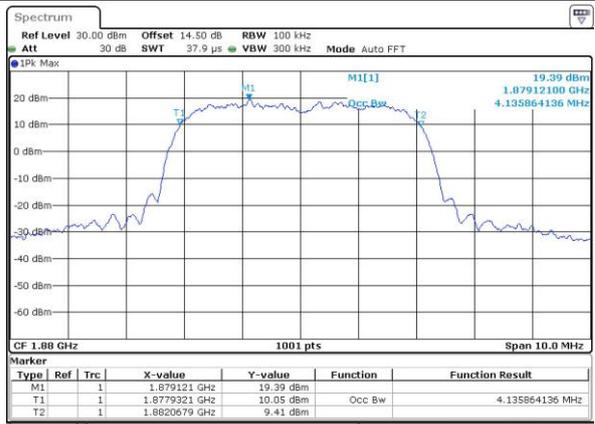
Date: 17.AUG.2024 09:46:21

Middle Channel



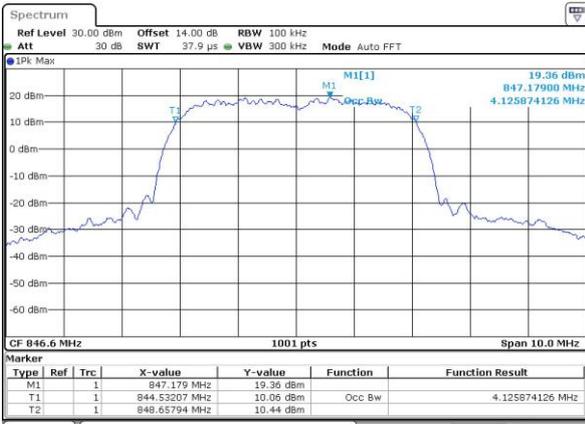
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Middle Channel



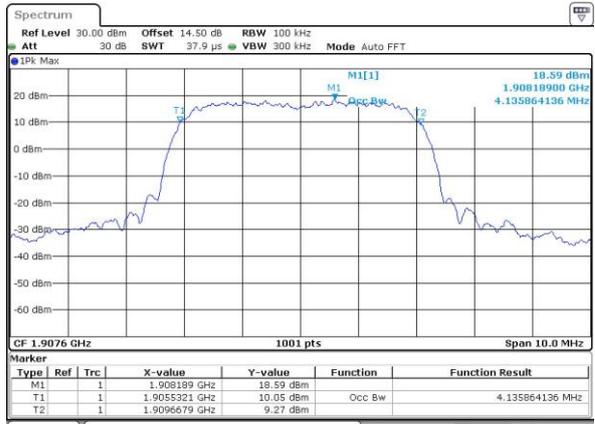
Date: 17.AUG.2024 09:50:32

Highest Channel



Date: 17.AUG.2024 10:02:09

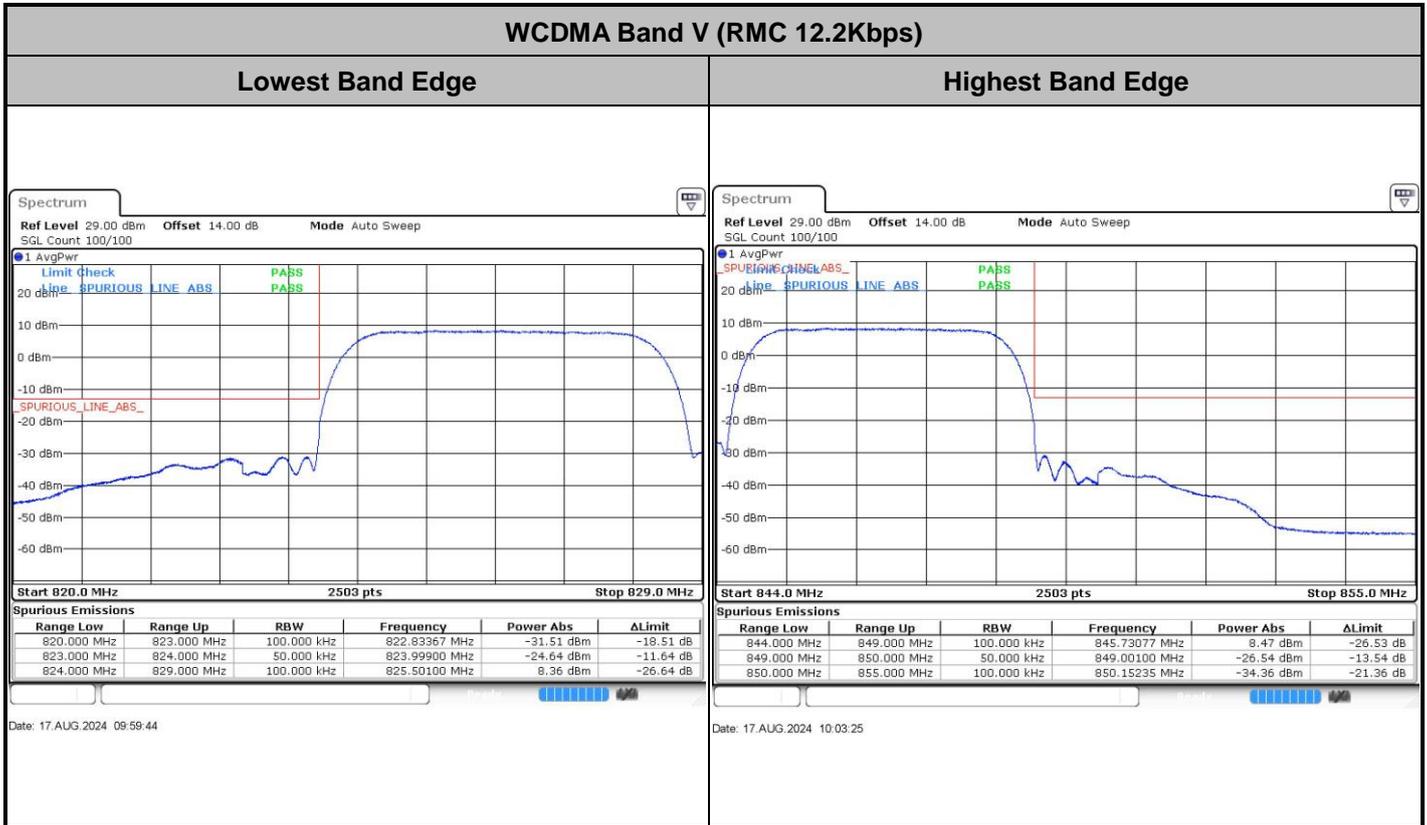
Highest Channel

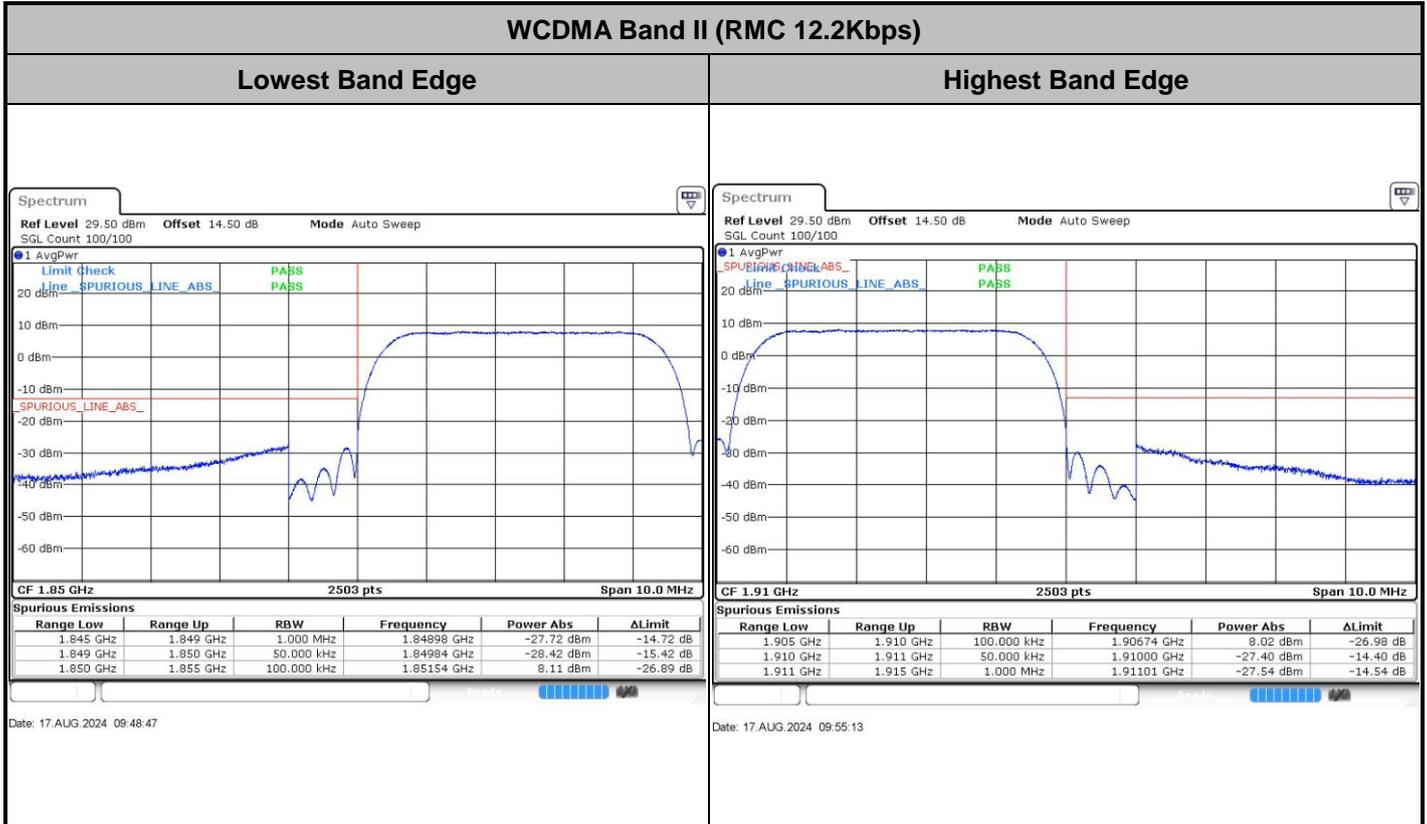


Date: 17.AUG.2024 09:54:16



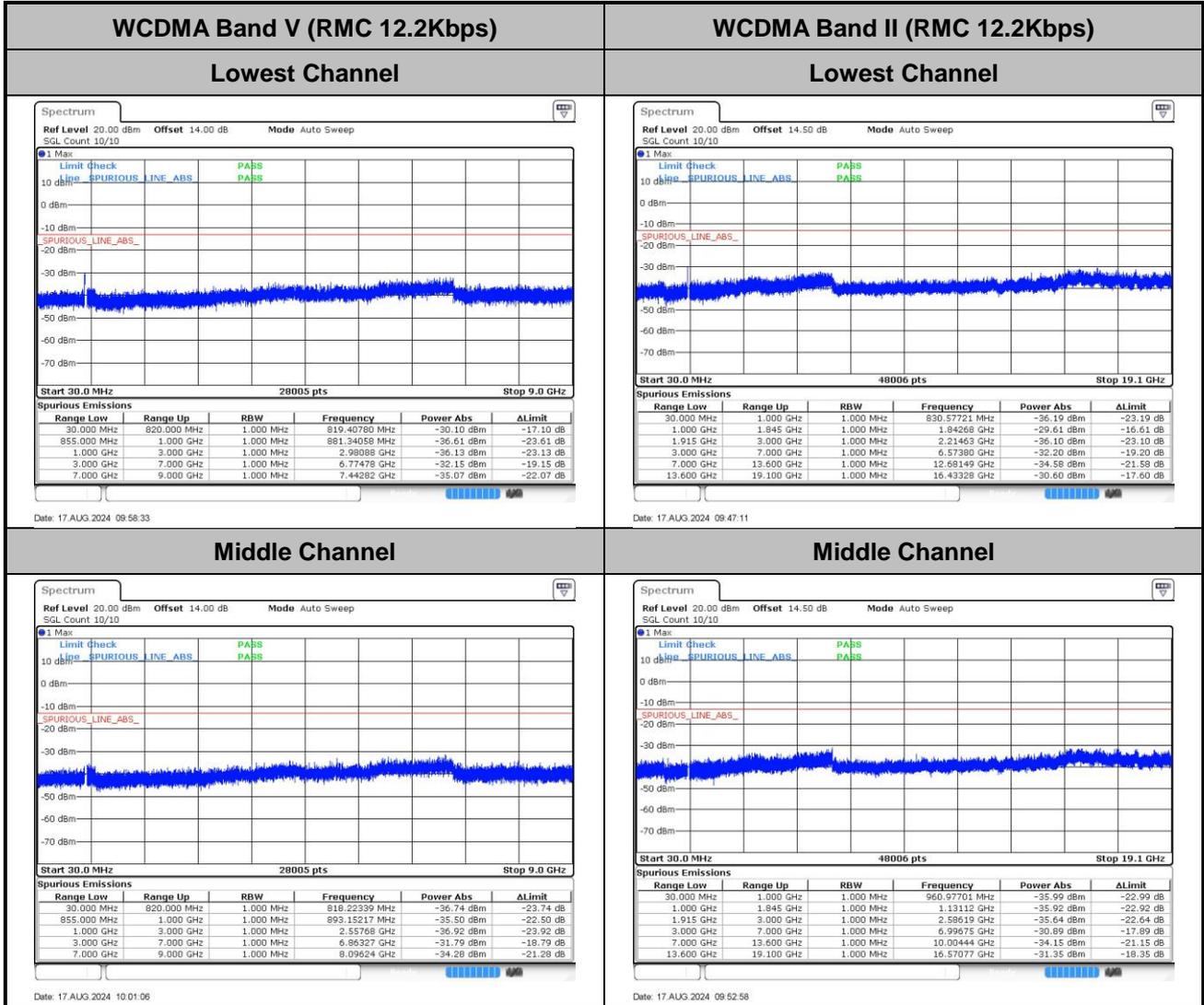
Conducted Band Edge

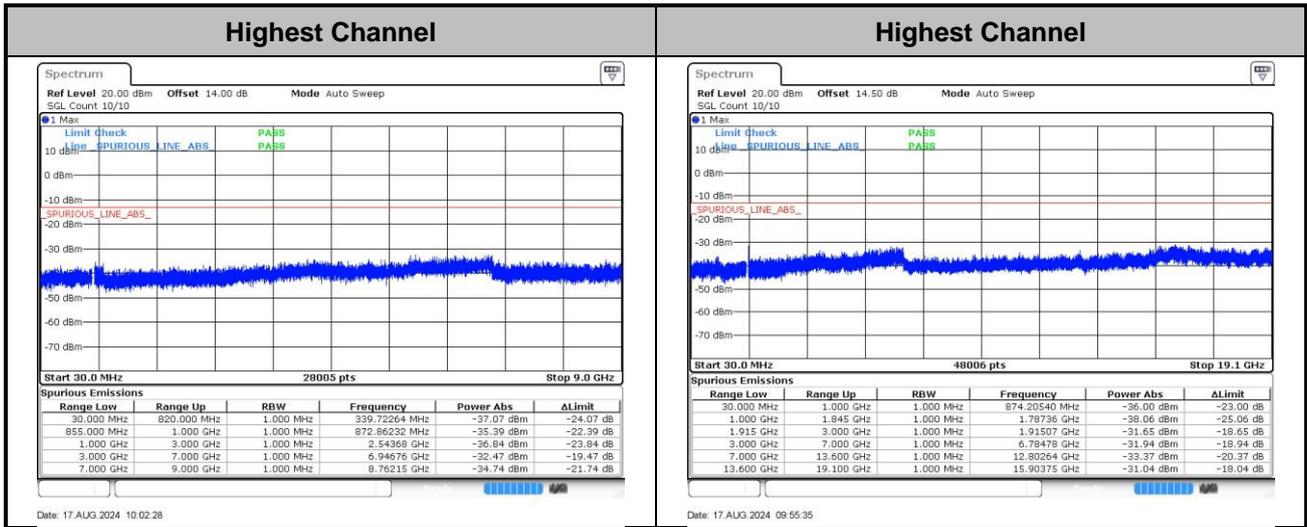






Conducted Spurious Emission







Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0122	PASS
40	Normal Voltage	0.0166	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0124	
0	Normal Voltage	0.0087	
-10	Normal Voltage	0.0124	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0098	
20	Maximum Voltage	0.0140	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0132	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0105	
0	Normal Voltage	0.0111	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0085	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage = 3.91V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	Temperature :	22~25°C
		Relative Humidity :	48~52%

GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-67.56	-13	-54.56	-73.78	-70.81	4.00	9.40	H
	2509.2	-64.77	-13	-51.77	-75.02	-68.34	4.88	10.60	H
	3345.6	-64.20	-13	-51.20	-76.23	-69.13	5.52	12.60	H
	1672.8	-67.38	-13	-54.38	-73.32	-70.63	4.00	9.40	V
	2509.2	-64.13	-13	-51.13	-74.71	-67.70	4.88	10.60	V
	3345.6	-63.85	-13	-50.85	-76.26	-68.78	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (EDGE 1 Tx slots)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-67.50	-13	-54.50	-73.72	-70.75	4.00	9.40	H
	2509.2	-65.16	-13	-52.16	-75.41	-68.73	4.88	10.60	H
	3345.6	-64.21	-13	-51.21	-76.24	-69.14	5.52	12.60	H
	1672.8	-67.79	-13	-54.79	-73.73	-71.04	4.00	9.40	V
	2509.2	-64.67	-13	-51.67	-75.25	-68.24	4.88	10.60	V
	3345.6	-63.97	-13	-50.97	-76.38	-68.90	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-62.37	-13	-49.37	-77.02	-69.12	5.85	12.60	H
	5640	-61.10	-13	-48.10	-78.85	-66.90	7.30	13.10	H
	7520	-55.64	-13	-42.64	-77.95	-58.79	8.35	11.50	H
	3760	-62.61	-13	-49.61	-77.44	-69.36	5.85	12.60	V
	5640	-61.33	-13	-48.33	-78.97	-67.13	7.30	13.10	V
	7520	-55.92	-13	-42.92	-78.11	-59.07	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (EDGE 1 Tx slots)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-63.03	-13	-50.03	-77.68	-69.78	5.85	12.60	H
	5640	-60.89	-13	-47.89	-78.64	-66.69	7.30	13.10	H
	7520	-55.95	-13	-42.95	-78.26	-59.10	8.35	11.50	H
	3760	-62.82	-13	-49.82	-77.65	-69.57	5.85	12.60	V
	5640	-61.21	-13	-48.21	-78.85	-67.01	7.30	13.10	V
	7520	-55.80	-13	-42.80	-77.99	-58.95	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band V (RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-67.50	-13	-54.50	-73.72	-70.75	4.00	9.40	H
	2509.2	-64.94	-13	-51.94	-75.19	-68.51	4.88	10.60	H
	3345.6	-64.52	-13	-51.52	-76.55	-69.45	5.52	12.60	H
	1672.8	-67.39	-13	-54.39	-73.33	-70.64	4.00	9.40	V
	2509.2	-64.55	-13	-51.55	-75.13	-68.12	4.88	10.60	V
	3345.6	-63.96	-13	-50.96	-76.37	-68.89	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-62.71	-13	-49.71	-77.36	-69.46	5.85	12.60	H
	5640	-61.32	-13	-48.32	-79.07	-67.12	7.30	13.10	H
	7520	-56.03	-13	-43.03	-78.34	-59.18	8.35	11.50	H
	3760	-62.94	-13	-49.94	-77.77	-69.69	5.85	12.60	V
	5640	-61.37	-13	-48.37	-79.01	-67.17	7.30	13.10	V
	7520	-56.04	-13	-43.04	-78.23	-59.19	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.