



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2602BPC18G
FCC ID : 2AFZZPC18G
STANDARD : 47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 08, 2025 ~ Dec. 13, 2025

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

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5N1302A	Rev. 01	Initial issue of report	Jan. 12, 2026

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	-
	§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 38.64 dB at 7515.00 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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2602BPC18G
FCC ID	2AFZZPC18G
IMEI Code	Conducted: 860534080024620/860534080024638 Radiation: 860534080021162
HW Version	13510P10U
SW Version	Xiaomi HyperOS 3.0
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 Band IV: 1710 MHz ~ 1755 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 Band IV: 2110 MHz ~ 2155 MHz																			
Maximum Output Power to Antenna	<table border="1"> <tr> <td colspan="2">GSM/GPRS/EDGE:</td></tr> <tr> <td rowspan="2">850:</td><td><Ant. 0> : 31.96 dBm</td></tr> <tr> <td><Ant. 1> : 31.89 dBm</td></tr> <tr> <td rowspan="2">1900:</td><td><Ant. 2> : 29.49 dBm</td></tr> <tr> <td><Ant. 3> : 29.23 dBm</td></tr> <tr> <td colspan="2">WCDMA:</td></tr> <tr> <td rowspan="2">Band V:</td><td><Ant. 0> : 23.52 dBm</td></tr> <tr> <td><Ant. 1> : 23.44 dBm</td></tr> <tr> <td rowspan="2">Band II:</td><td><Ant. 2> : 23.76 dBm</td></tr> <tr> <td><Ant. 3> : 23.62 dBm</td></tr> <tr> <td rowspan="2">Band IV:</td><td><Ant. 2> : 23.76 dBm</td></tr> <tr> <td><Ant. 3> : 23.69 dBm</td></tr> </table>	GSM/GPRS/EDGE:		850:	<Ant. 0> : 31.96 dBm	<Ant. 1> : 31.89 dBm	1900:	<Ant. 2> : 29.49 dBm	<Ant. 3> : 29.23 dBm	WCDMA:		Band V:	<Ant. 0> : 23.52 dBm	<Ant. 1> : 23.44 dBm	Band II:	<Ant. 2> : 23.76 dBm	<Ant. 3> : 23.62 dBm	Band IV:	<Ant. 2> : 23.76 dBm	<Ant. 3> : 23.69 dBm
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850:	<Ant. 0> : 31.96 dBm																			
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	<Ant. 3> : 23.62 dBm																			
Band IV:	<Ant. 2> : 23.76 dBm																			
	<Ant. 3> : 23.69 dBm																			
Antenna Type	PIFA Antenna																			
Antenna Gain	<Ant.0> Cellular Band: -3.3 dBi <Ant.1> Cellular Band: -3.02 dBi <Ant.2> PCS Band: -1.9 dBi AWS Band: -0.4 dBi <Ant.3> PCS Band: -1.36 dBi AWS Band: -1.46 dBi																			
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: BPSK HSPA: QPSK HSPA+: 16QAM DC-HSDPA: 64QAM																			

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 1 for GSM 850/WCDMA Band V, Antenna 3 for GSM1900/WCDMA Band II and Antenna 2 for WCDMA Band IV are shown in the report.
2. For conducted test items of GSM850/WCDMA Band V, only the test data of the worse Ant.0 are shown in the report according to the maximum power.
3. For conducted test items of GSM900/WCDMA Band II, only the test data of the worse Ant.2 are shown in the report according to the maximum power.

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 (GPRS)	824.2 ~ 848.8	GMSK	0.4699	244KGXW
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.1096	246KG7W
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0671	4M15F9W
Part 24	GSM1900 (GPRS)	1850.2 ~ 1909.8	GMSK	0.6124	245KGXW
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.2350	249KG7W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1683	4M16F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.2168	4M16F9W

1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH04-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	03CH04-KS	AUDIX	E3	210616

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:

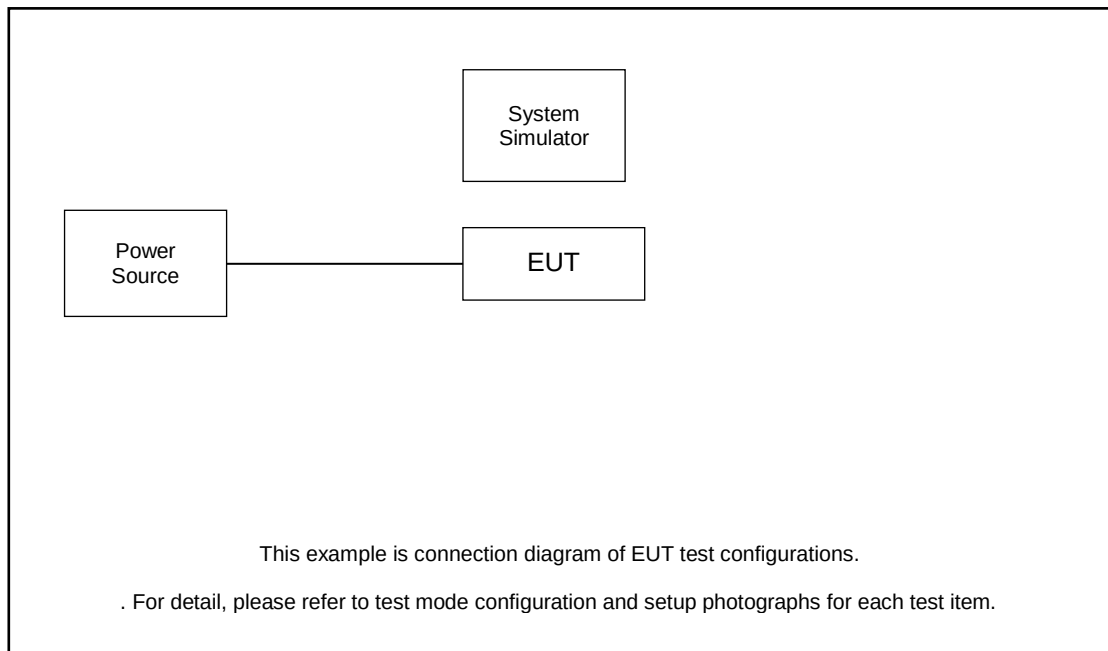
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

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	■ GPRS 1 Tx slots Link	■ GPRS 1 Tx slots Link
	■ EDGE 1 Tx slots Link	■ EDGE 1 Tx slots Link
GSM 1900	■ GPRS 1 Tx slots Link	■ GPRS 1 Tx slots Link
	■ EDGE 1 Tx slots Link	■ EDGE 1 Tx slots Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

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

2.4 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 4.6 dB and a 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.6 + 10 = 14.6 \text{ (dB)} \end{aligned}$$

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

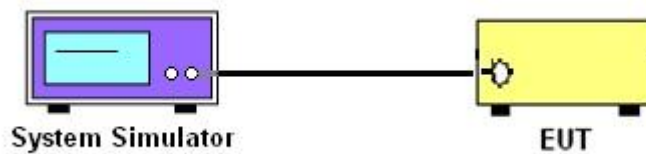
3 Conducted Test Result

3.1 Measuring Instruments

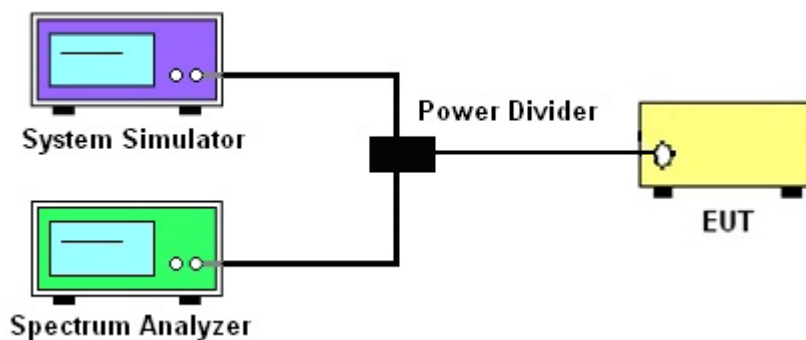
See list of measuring instruments of this test report.

3.2 Test Setup

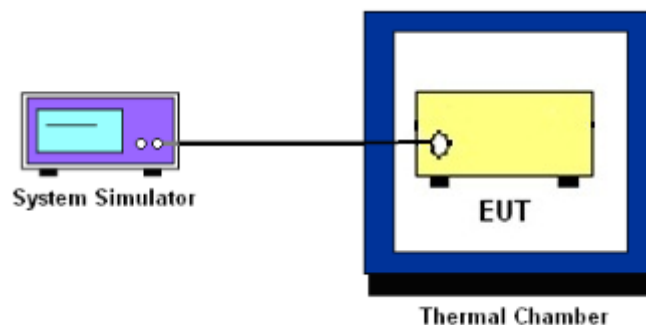
3.2.1 Conducted Output Power



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.

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.

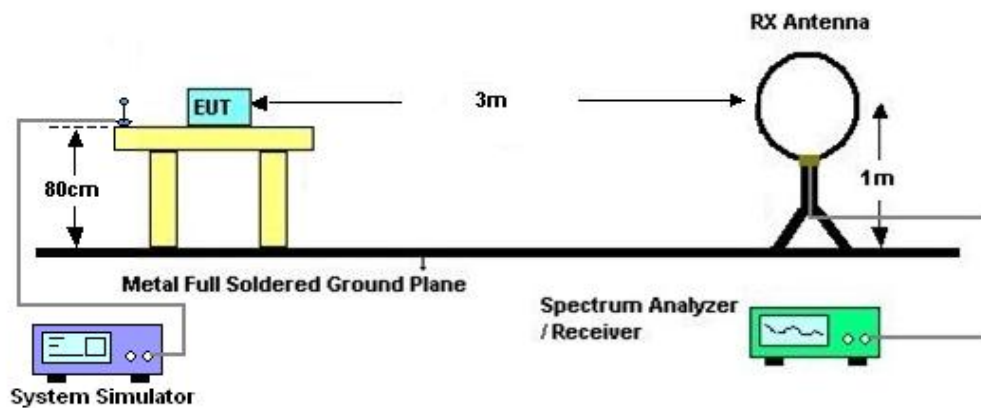
4 Radiated Test Items

4.1 Measuring Instruments

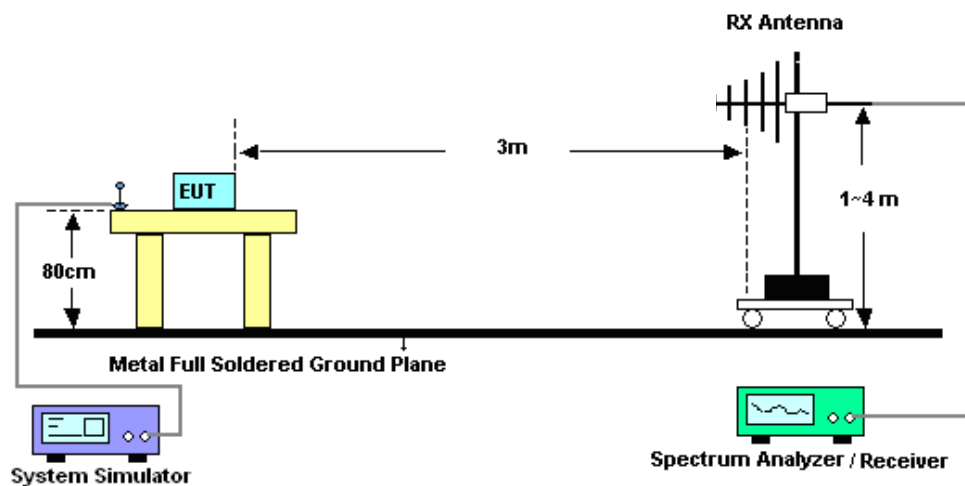
See list of measuring instruments of this test report.

4.2 Test Setup

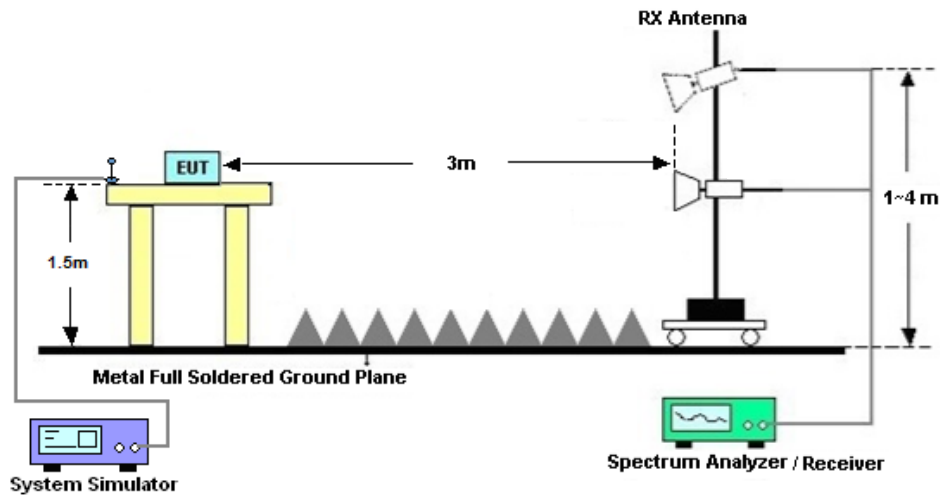
4.2.1 For radiated test below 30MHz



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
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 10, 2025	Dec. 13, 2025	Oct. 09, 2026	Radiation (03CH04-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 10, 2025	Dec. 13, 2025	Oct. 09, 2026	Radiation (03CH04-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Dec. 13, 2025	Aug. 09, 2026	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 22, 2025	Dec. 13, 2025	Nov. 21, 2026	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 22, 2025	Dec. 13, 2025	Aug. 21, 2026	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 11, 2025	Dec. 13, 2025	Jan. 10, 2026	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 02, 2025	Dec. 13, 2025	Jul. 01, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Dec. 13, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060890	1Ghz-18Ghz	May 23, 2025	Dec. 13, 2025	May 22, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 11, 2025	Dec. 13, 2025	Oct. 10, 2026	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 13, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 13, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 13, 2025	NCR	Radiation (03CH04-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Dec. 08, 2025	Jul. 06, 2026	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Dec. 08, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2025	Dec. 08, 2025	Jul. 01, 2026	Conducted (TH01-KS)

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

Conducted Spurious Emission & Bandedge	±2.00 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.38 ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB
---	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

GSM850_ANT1:

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	31.87	31.79	31.69	0.4677	0.4592	0.4487
GPRS 1 Tx slot	31.89	31.80	31.71	0.4699	0.4603	0.4508
GPRS 2 Tx slots	30.51	30.53	30.51	0.3420	0.3436	0.3420
GPRS 3 Tx slots	28.53	28.54	28.41	0.2168	0.2173	0.2109
GPRS 4 Tx slots	26.01	26.09	26.03	0.1213	0.1236	0.1219
EDGE 1 Tx slot	25.53	25.57	25.51	0.1086	0.1096	0.1081
EDGE 2 Tx slots	24.12	24.48	24.43	0.0785	0.0853	0.0843
EDGE 3 Tx slots	22.27	22.31	22.23	0.0513	0.0518	0.0508
EDGE 4 Tx slots	21.03	21.12	21.09	0.0385	0.0394	0.0391

GSM1900_ANT3:

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	29.10	29.13	29.19	0.5943	0.5984	0.6067
GPRS 1 Tx slot	29.12	29.14	29.23	0.5970	0.5998	0.6124
GPRS 2 Tx slots	28.42	28.46	28.41	0.5082	0.5129	0.5070
GPRS 3 Tx slots	26.71	26.77	26.73	0.3428	0.3475	0.3443
GPRS 4 Tx slots	24.55	24.59	24.53	0.2084	0.2104	0.2075
EDGE 1 Tx slot	24.93	25.07	25.03	0.2275	0.2350	0.2328
EDGE 2 Tx slots	23.72	23.78	23.86	0.1722	0.1746	0.1778
EDGE 3 Tx slots	21.39	21.42	21.42	0.1007	0.1014	0.1014
EDGE 4 Tx slots	19.99	19.93	19.99	0.0729	0.0719	0.0729



WCDMA Band V_ANT1:

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	23.31	23.39	23.28	0.0652	0.0664	0.0647
3GPP Rel 99	RMC 12.2Kbps	23.42	23.44	23.38	0.0668	0.0671	0.0662
3GPP Rel 6	HSDPA Subtest-1	22.39	22.45	22.41	0.0527	0.0535	0.0530
3GPP Rel 6	HSDPA Subtest-2	22.41	22.49	22.46	0.0530	0.0540	0.0536
3GPP Rel 6	HSDPA Subtest-3	21.88	22.02	21.92	0.0469	0.0484	0.0473
3GPP Rel 6	HSDPA Subtest-4	21.95	21.97	21.93	0.0476	0.0479	0.0474
3GPP Rel 8	DC-HSDPA Subtest-1	22.44	22.39	22.44	0.0533	0.0527	0.0533
3GPP Rel 8	DC-HSDPA Subtest-2	22.39	22.43	22.43	0.0527	0.0532	0.0532
3GPP Rel 8	DC-HSDPA Subtest-3	21.95	22.02	21.89	0.0476	0.0484	0.0470
3GPP Rel 8	DC-HSDPA Subtest-4	21.86	22.00	21.94	0.0467	0.0482	0.0475
3GPP Rel 6	HSUPA Subtest-1	22.39	22.48	22.43	0.0527	0.0538	0.0532
3GPP Rel 6	HSUPA Subtest-2	20.43	20.51	20.40	0.0336	0.0342	0.0333
3GPP Rel 6	HSUPA Subtest-3	21.49	21.42	21.43	0.0429	0.0422	0.0423
3GPP Rel 6	HSUPA Subtest-4	20.52	20.49	20.54	0.0343	0.0340	0.0344
3GPP Rel 6	HSUPA Subtest-5	22.43	22.44	22.41	0.0532	0.0533	0.0530
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.86	20.05	19.89	0.0294	0.0308	0.0296

WCDMA Band II_ANT3:

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	23.49	23.62	23.55	0.1633	0.1683	0.1656
3GPP Rel 99	RMC 12.2Kbps	23.58	23.60	23.59	0.1667	0.1675	0.1671
3GPP Rel 6	HSDPA Subtest-1	22.60	22.61	22.59	0.1330	0.1334	0.1327
3GPP Rel 6	HSDPA Subtest-2	22.64	22.65	22.63	0.1343	0.1346	0.1340
3GPP Rel 6	HSDPA Subtest-3	22.16	22.13	22.13	0.1202	0.1194	0.1194
3GPP Rel 6	HSDPA Subtest-4	22.10	22.13	22.15	0.1186	0.1194	0.1199
3GPP Rel 8	DC-HSDPA Subtest-1	22.62	22.59	22.69	0.1337	0.1327	0.1358
3GPP Rel 8	DC-HSDPA Subtest-2	22.62	22.64	22.59	0.1337	0.1343	0.1327
3GPP Rel 8	DC-HSDPA Subtest-3	22.20	22.17	22.11	0.1213	0.1205	0.1189
3GPP Rel 8	DC-HSDPA Subtest-4	22.04	22.17	22.17	0.1169	0.1205	0.1205
3GPP Rel 6	HSUPA Subtest-1	22.54	22.63	22.69	0.1312	0.1340	0.1358
3GPP Rel 6	HSUPA Subtest-2	20.63	20.63	20.57	0.0845	0.0845	0.0834
3GPP Rel 6	HSUPA Subtest-3	21.71	21.65	21.71	0.1084	0.1069	0.1084
3GPP Rel 6	HSUPA Subtest-4	20.63	20.72	20.68	0.0845	0.0863	0.0855
3GPP Rel 6	HSUPA Subtest-5	22.62	22.67	22.62	0.1337	0.1352	0.1337
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.09	20.18	20.06	0.0746	0.0762	0.0741

**WCDMA Band IV_ANT2:**

Band		WCDMA IV			EIRP(W)		
TX Channel		1312	1413	1513			
Rx Channel		1537	1638	1738			
Frequency (MHz)		1712.4	1732.6	1752.6	L	M	H
3GPP Rel 99	AMR 12.2Kbps	23.57	23.64	23.61	0.2075	0.2109	0.2094
3GPP Rel 99	RMC 12.2Kbps	23.74	23.76	23.70	0.2158	0.2168	0.2138
3GPP Rel 6	HSDPA Subtest-1	22.68	22.77	22.70	0.1690	0.1726	0.1698
3GPP Rel 6	HSDPA Subtest-2	22.75	22.83	22.79	0.1718	0.1750	0.1734
3GPP Rel 6	HSDPA Subtest-3	22.29	22.31	22.12	0.1545	0.1552	0.1486
3GPP Rel 6	HSDPA Subtest-4	22.23	22.27	22.24	0.1524	0.1538	0.1528
3GPP Rel 8	DC-HSDPA Subtest-1	22.72	22.79	22.72	0.1706	0.1734	0.1706
3GPP Rel 8	DC-HSDPA Subtest-2	22.65	22.76	22.71	0.1679	0.1722	0.1702
3GPP Rel 8	DC-HSDPA Subtest-3	22.21	22.34	22.25	0.1517	0.1563	0.1531
3GPP Rel 8	DC-HSDPA Subtest-4	22.24	22.32	22.26	0.1528	0.1556	0.1535
3GPP Rel 6	HSUPA Subtest-1	22.61	22.74	22.79	0.1663	0.1714	0.1734
3GPP Rel 6	HSUPA Subtest-2	20.67	20.72	20.74	0.1064	0.1076	0.1081
3GPP Rel 6	HSUPA Subtest-3	21.73	21.79	21.73	0.1358	0.1377	0.1358
3GPP Rel 6	HSUPA Subtest-4	20.77	20.76	20.80	0.1089	0.1086	0.1096
3GPP Rel 6	HSUPA Subtest-5	22.70	22.78	22.63	0.1698	0.1730	0.1671
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.21	20.23	20.15	0.0957	0.0962	0.0944



A1. GSM

Peak-to-Average Ratio

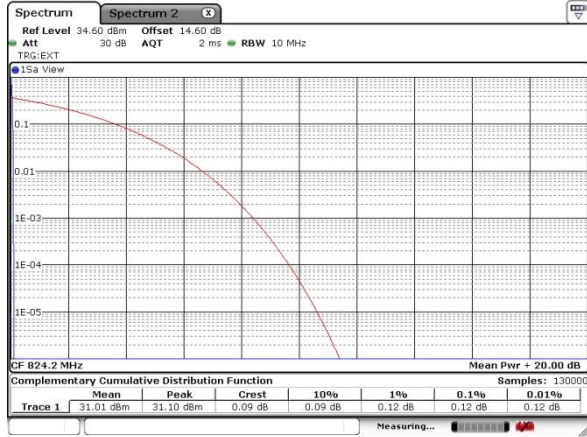
Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.12	2.99	PASS
Middle CH	0.12	3.10	
Highest CH	0.12	3.19	

Mode	GSM1900		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.12	3.13	PASS
Middle CH	0.12	3.10	
Highest CH	0.20	3.16	



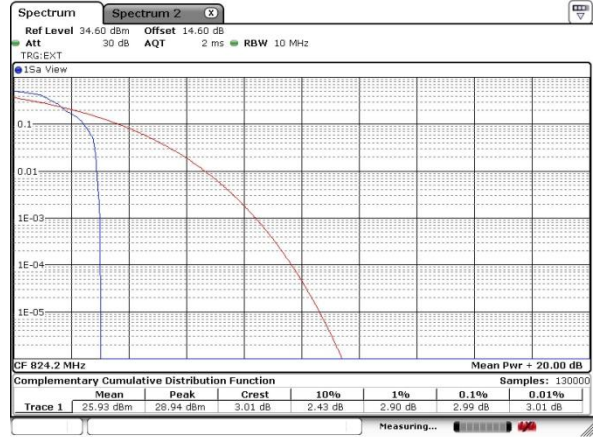
GSM850 (GSM)

Lowest Channel

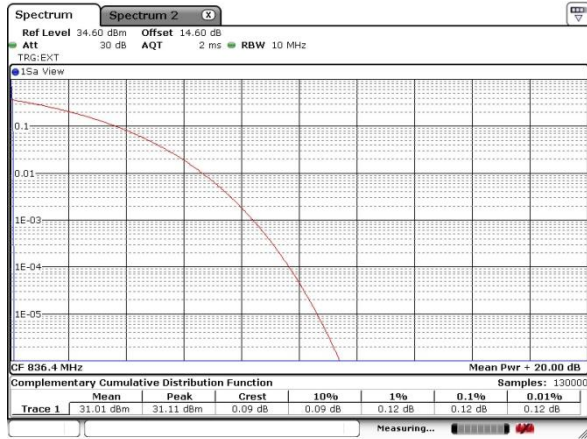


GSM850 (EDGE class 8)

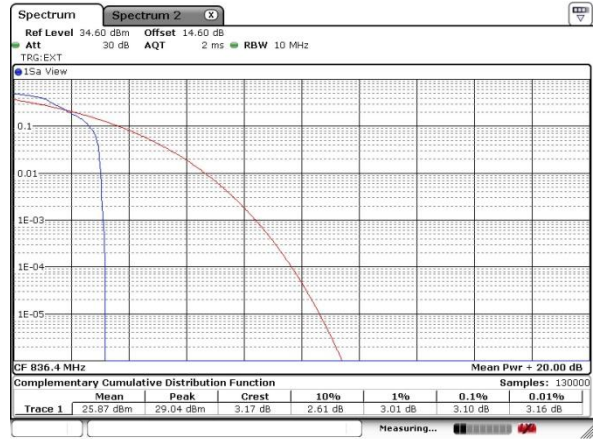
Lowest Channel



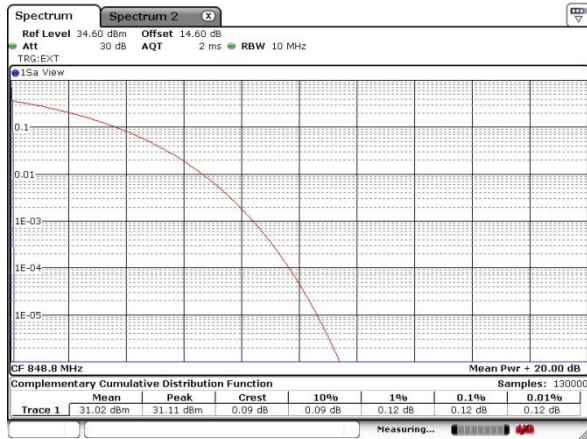
Middle Channel



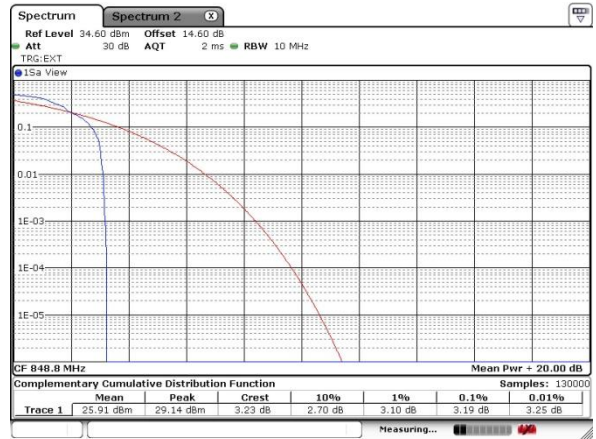
Middle Channel

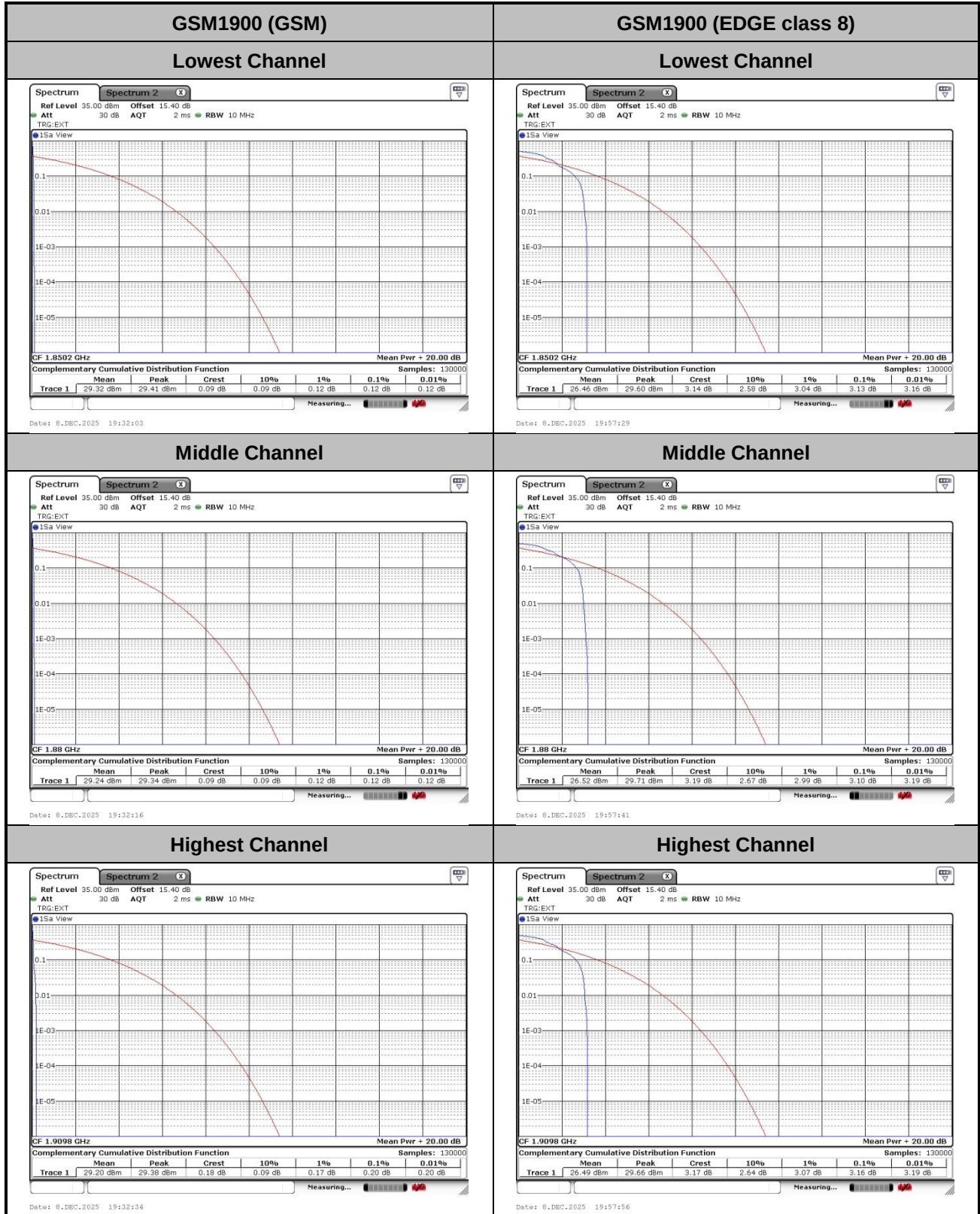


Highest Channel



Highest Channel







26dB Bandwidth

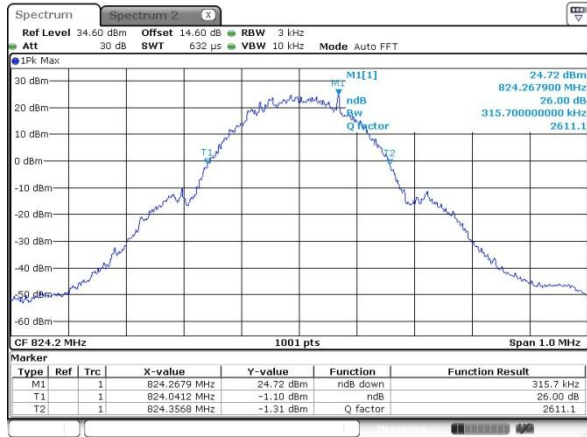
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.316	0.310
Middle CH	0.318	0.311
Highest CH	0.319	0.311

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.312	0.313
Middle CH	0.312	0.316
Highest CH	0.315	0.316



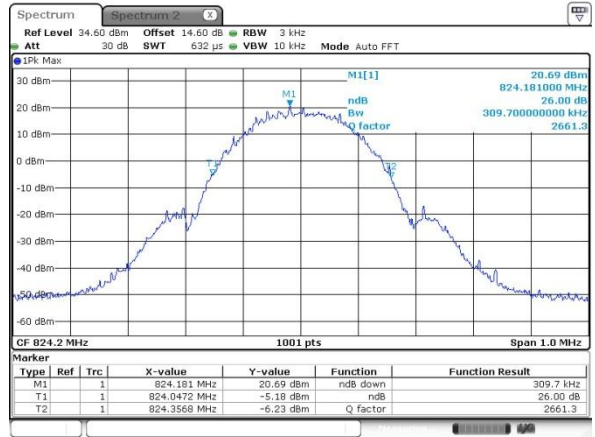
GSM850 (GSM)

Lowest Channel

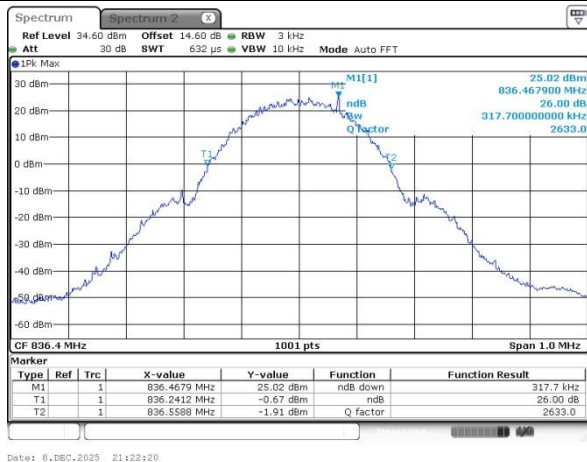


GSM850 (EDGE class 8)

Lowest Channel



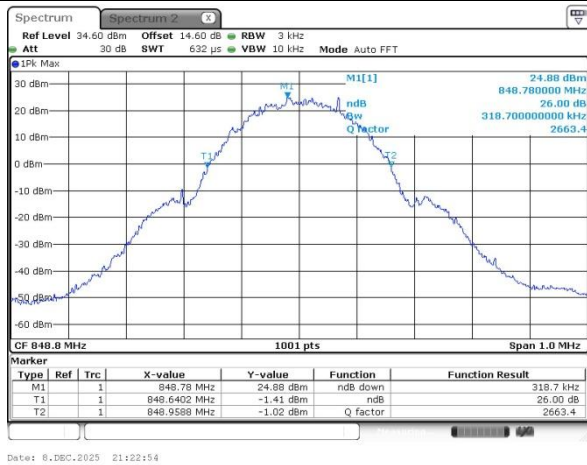
Middle Channel



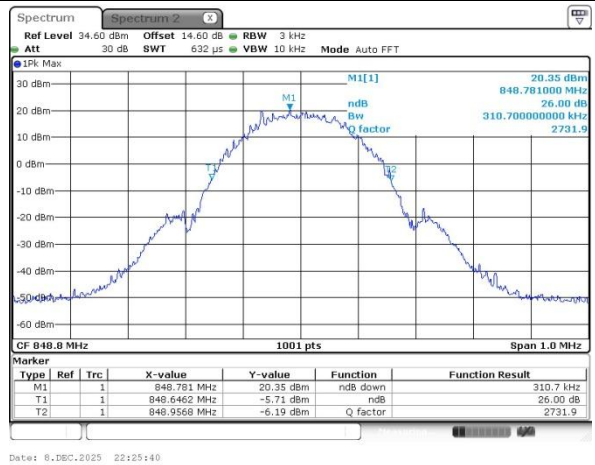
Middle Channel



Highest Channel



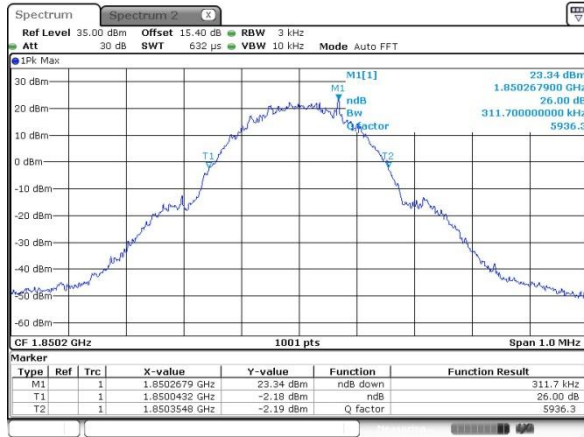
Highest Channel





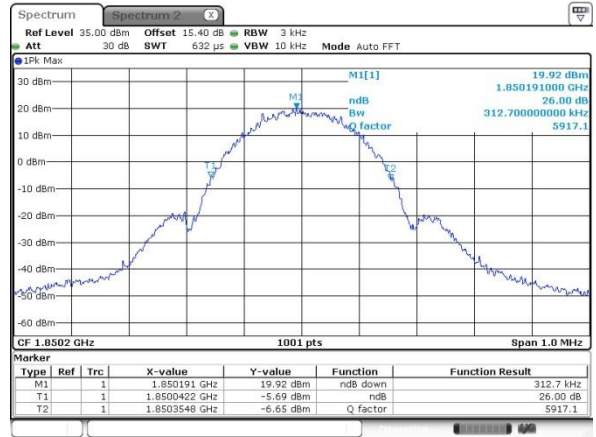
GSM1900 (GSM)

Lowest Channel



GSM1900 (EDGE class 8)

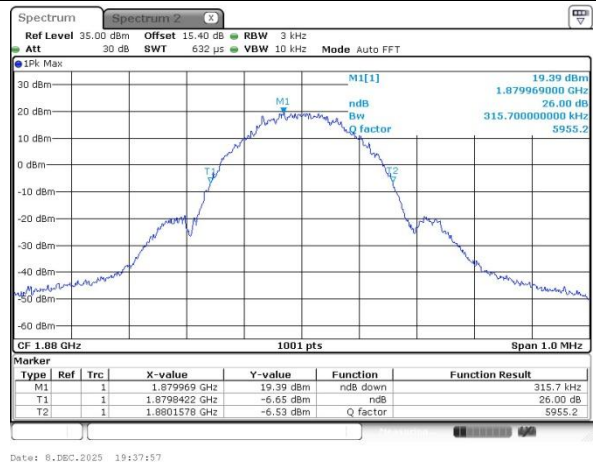
Lowest Channel



Middle Channel



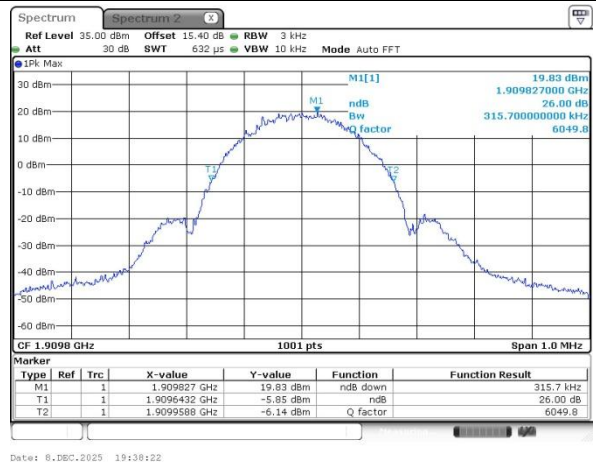
Middle Channel



Highest Channel



Highest Channel





Occupied Bandwidth

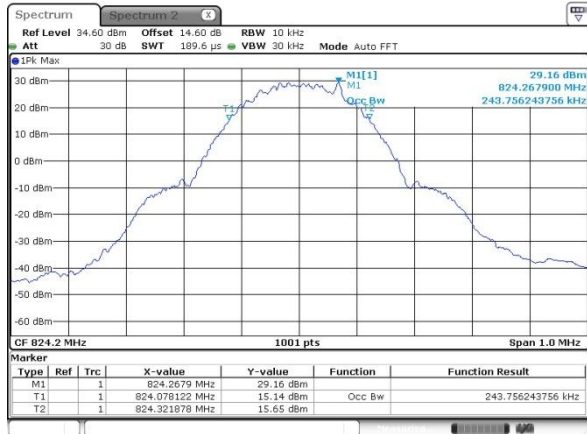
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.246
Middle CH	0.242	0.244
Highest CH	0.244	0.242

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.246
Middle CH	0.245	0.249
Highest CH	0.242	0.249



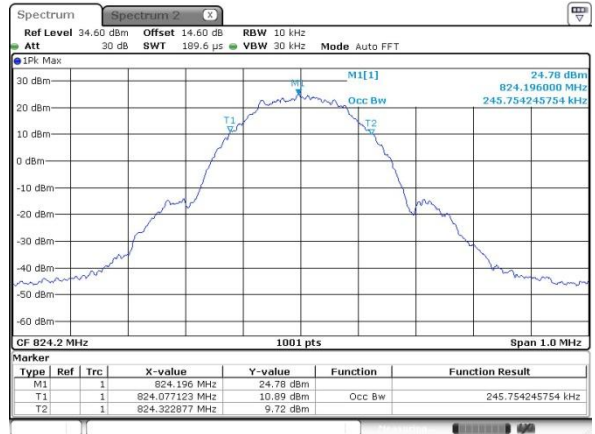
GSM850 (GSM)

Lowest Channel



GSM850 (EDGE class 8)

Lowest Channel



Middle Channel



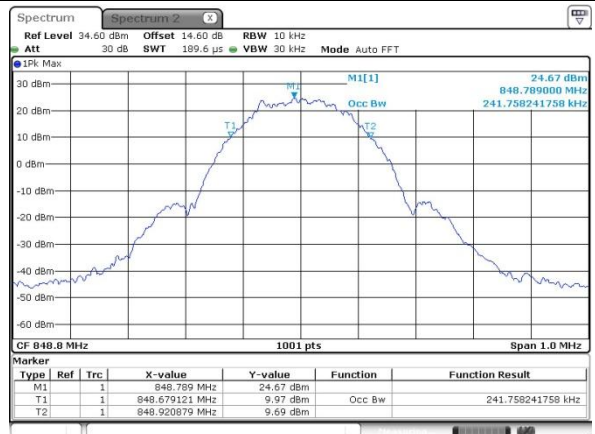
Middle Channel



Highest Channel



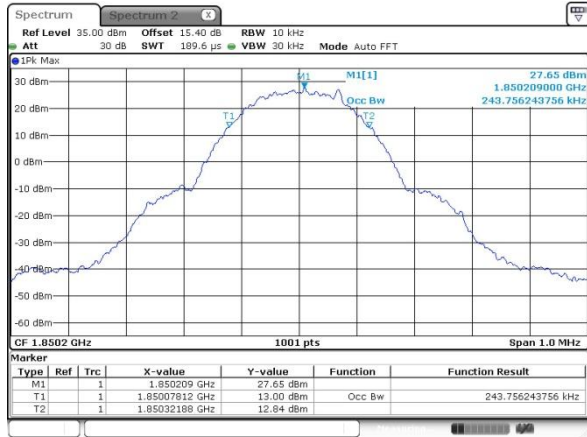
Highest Channel





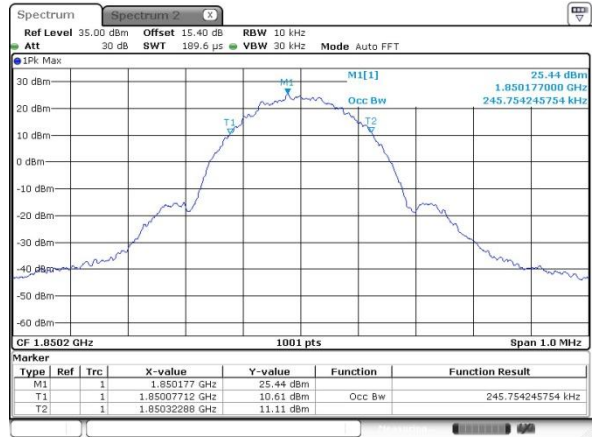
GSM1900 (GSM)

Lowest Channel



GSM1900 (EDGE class 8)

Lowest Channel



Middle Channel



Middle Channel

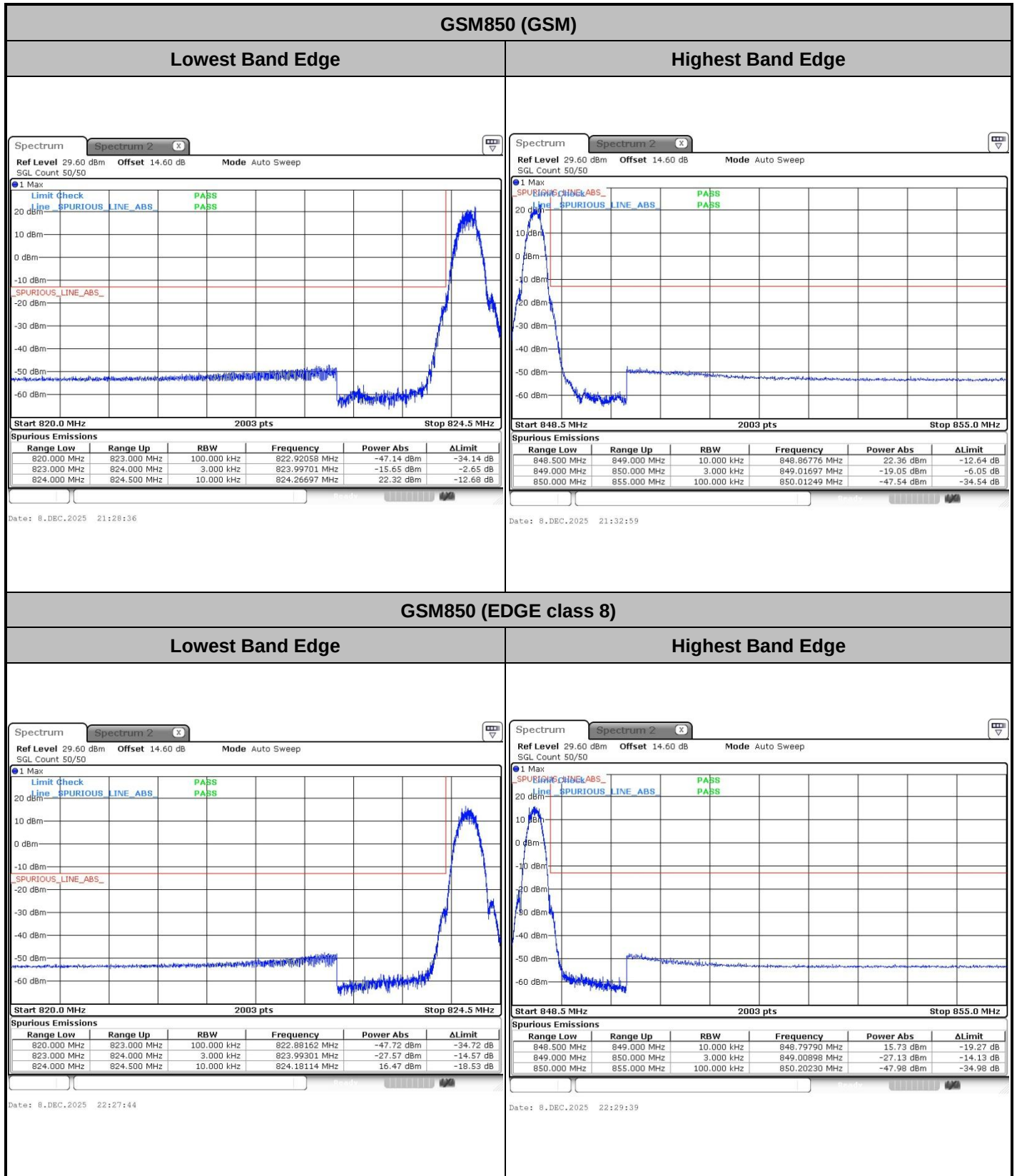


Highest Channel



Highest Channel

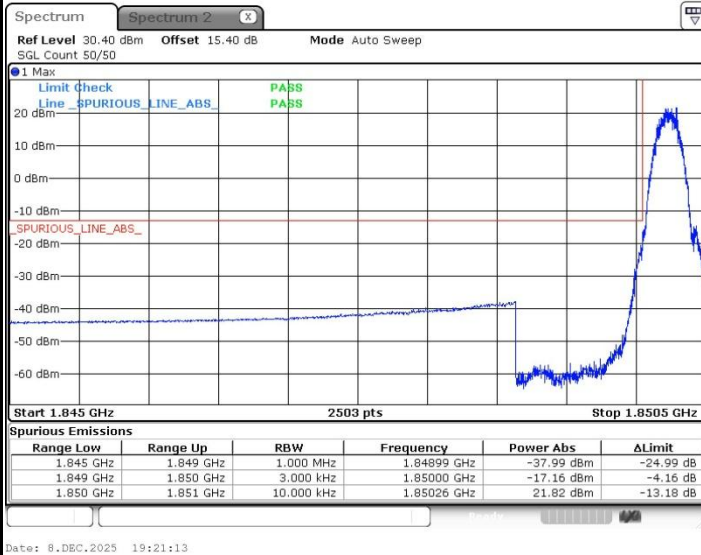


**Conducted Band Edge**



GSM1900 (GSM)

Lowest Band Edge

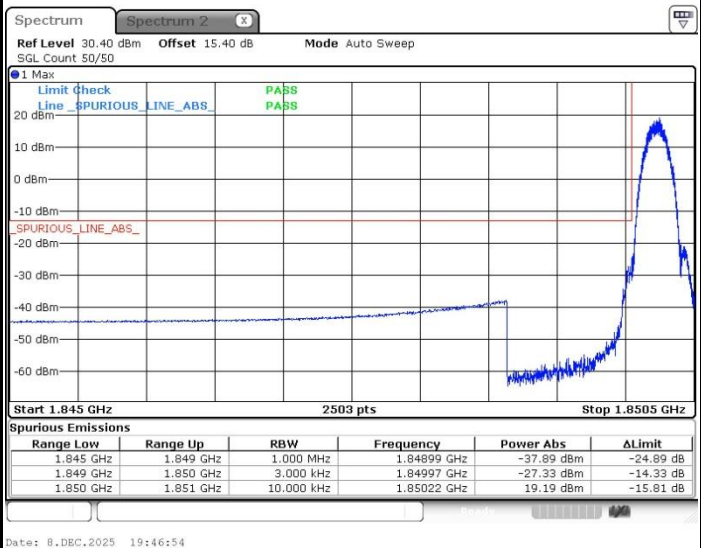


Highest Band Edge

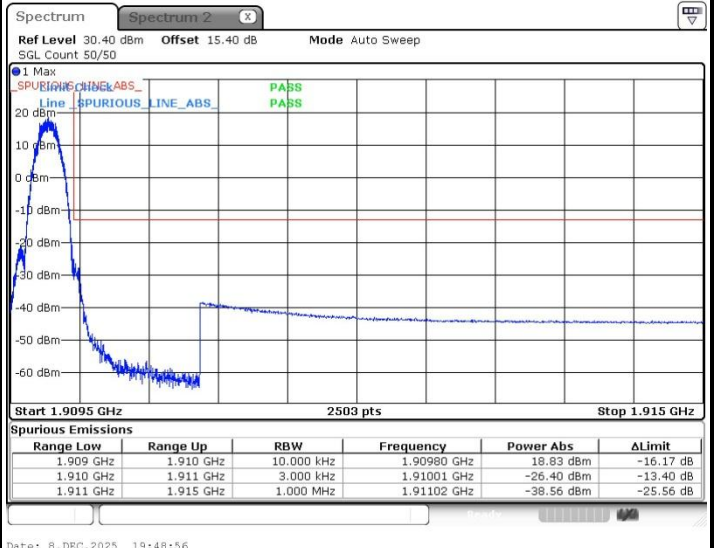


GSM1900 (EDGE class 8)

Lowest Band Edge



Highest Band Edge

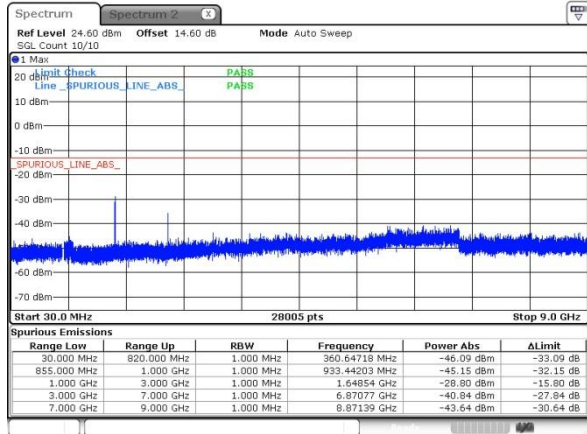




Conducted Spurious Emission

GSM850 (GSM)

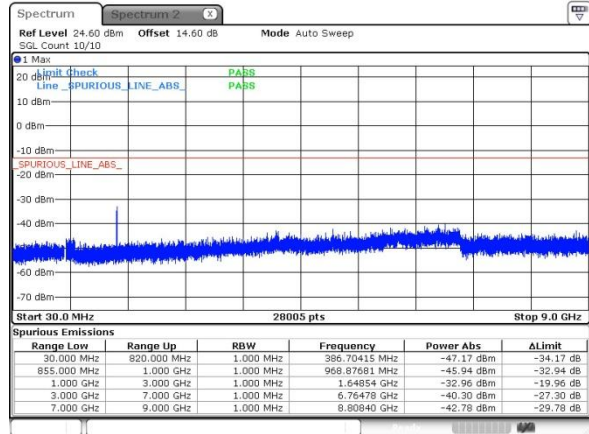
Lowest Channel



Date: 8.DEC.2025 21:35:00

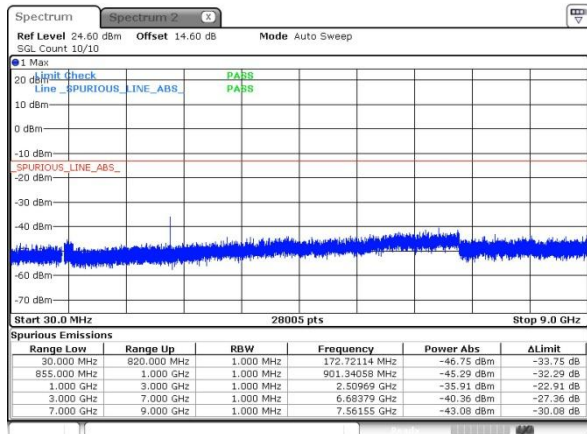
GSM850 (EDGE class 8)

Lowest Channel



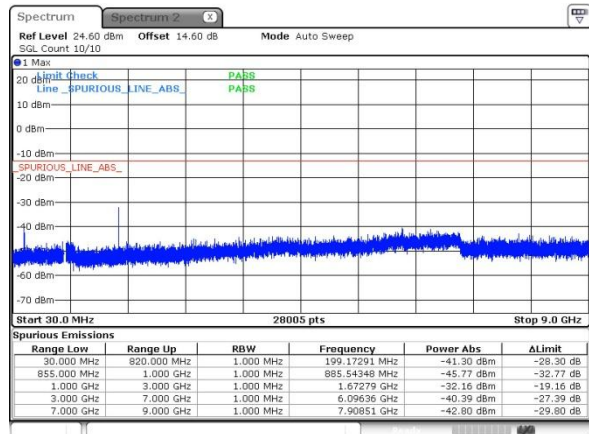
Date: 8.DEC.2025 22:31:49

Middle Channel



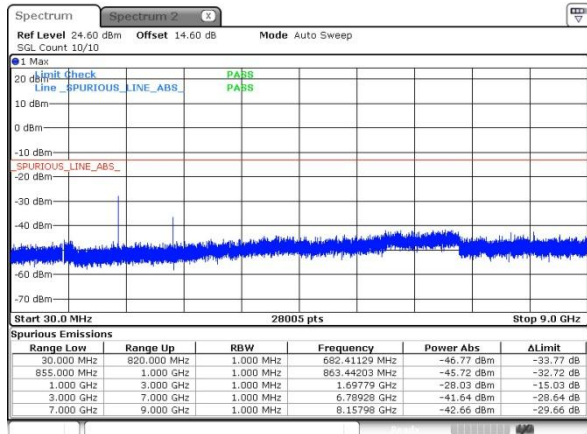
Date: 8.DEC.2025 21:37:16

Middle Channel



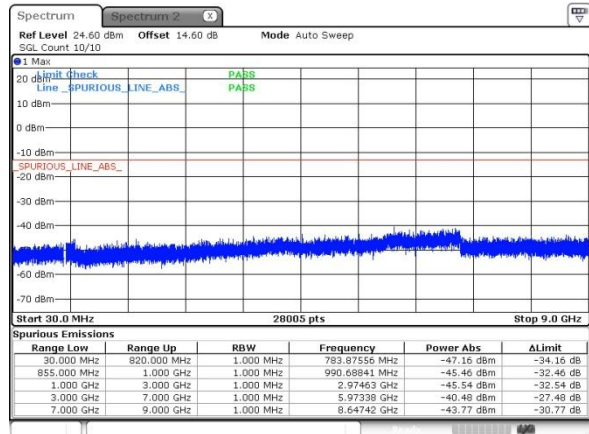
Date: 8.DEC.2025 22:33:55

Highest Channel



Date: 8.DEC.2025 21:40:30

Highest Channel

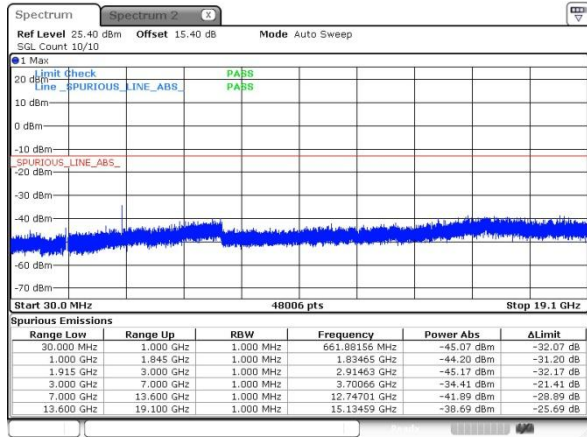


Date: 8.DEC.2025 22:36:56



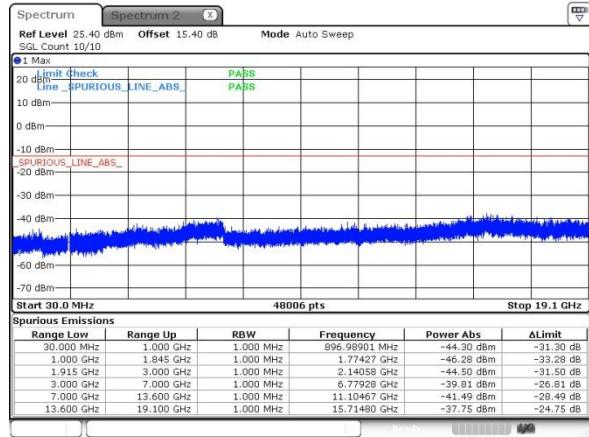
GSM1900 (GSM)

Lowest Channel

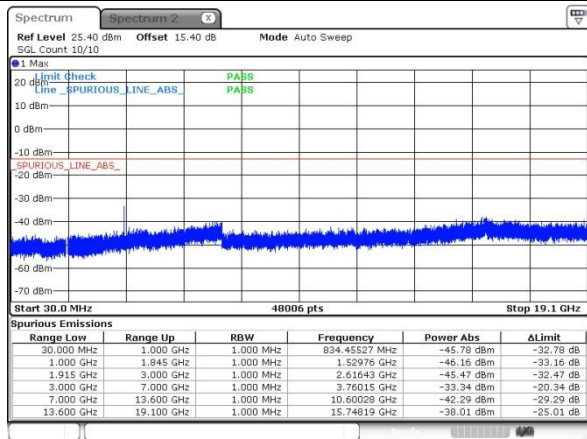


GSM1900 (EDGE class 8)

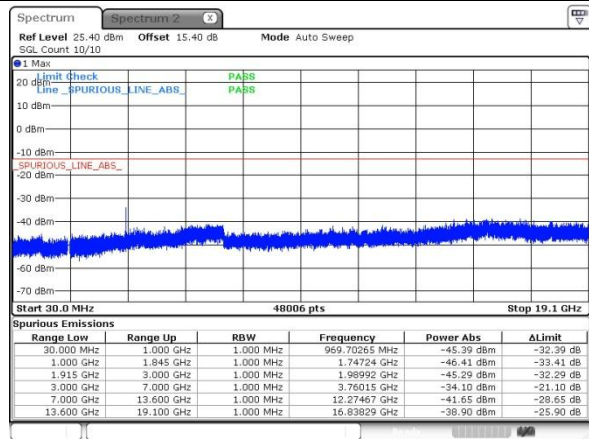
Lowest Channel



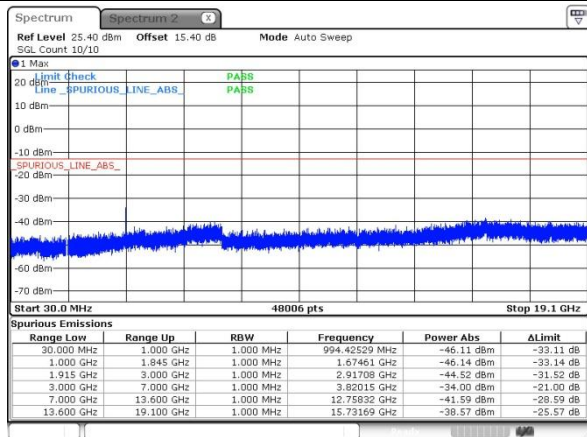
Middle Channel



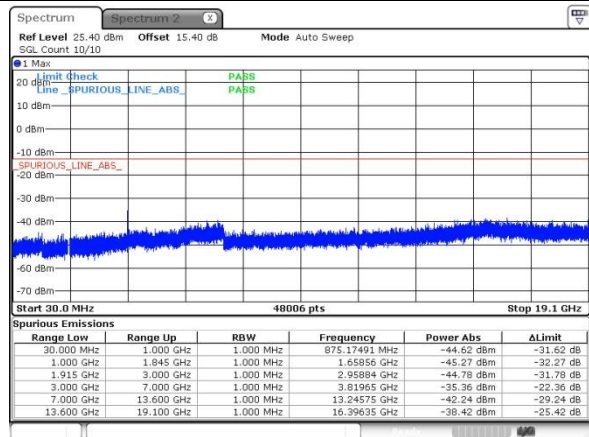
Middle Channel



Highest Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		2.5ppm
50	Normal Voltage	0.0045	0.0012	PASS
40	Normal Voltage	0.0526	0.0133	
30	Normal Voltage	0.0048	0.0553	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0563	0.0479	
0	Normal Voltage	0.0163	0.0563	
-10	Normal Voltage	0.0057	0.0447	
-20	Normal Voltage	0.0169	0.0145	
-30	Normal Voltage	0.0144	0.0458	
20	Maximum Voltage	0.0451	0.0534	
20	Normal Voltage	0.0166	0.0151	
20	Battery End Point	0.0926	0.0266	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Note 2.
50	Normal Voltage	0.0043	0.0098	PASS
40	Normal Voltage	0.0011	0.0042	
30	Normal Voltage	0.0069	0.0063	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0125	0.0273	
0	Normal Voltage	0.0064	0.0199	
-10	Normal Voltage	0.0193	0.0014	
-20	Normal Voltage	0.0254	0.0039	
-30	Normal Voltage	0.0066	0.0208	
20	Maximum Voltage	0.0073	0.0122	
20	Normal Voltage	0.0099	0.0003	
20	Battery End Point	0.0121	0.0077	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V
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	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.07	2.38	2.38	PASS
Middle CH	3.07	2.55	2.55	
Highest CH	3.04	2.38	2.38	



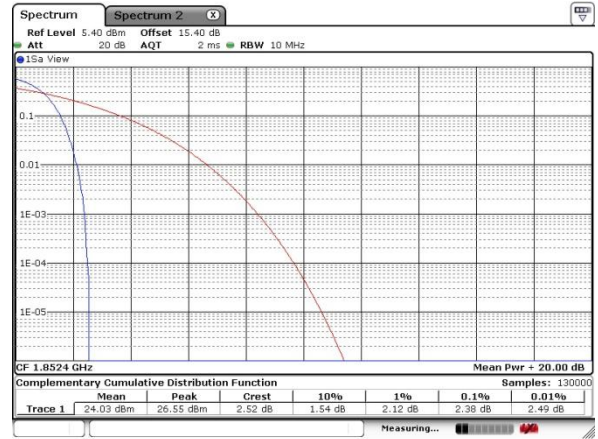
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

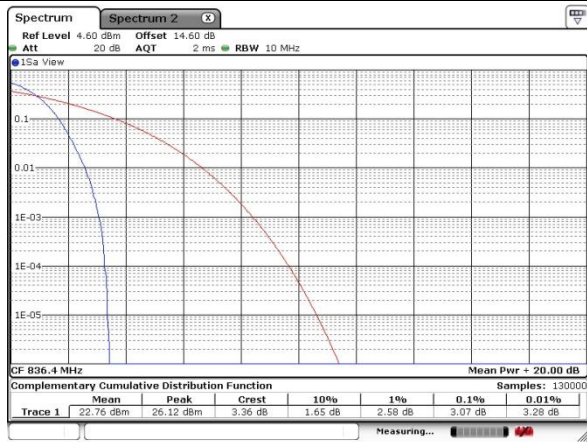


WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



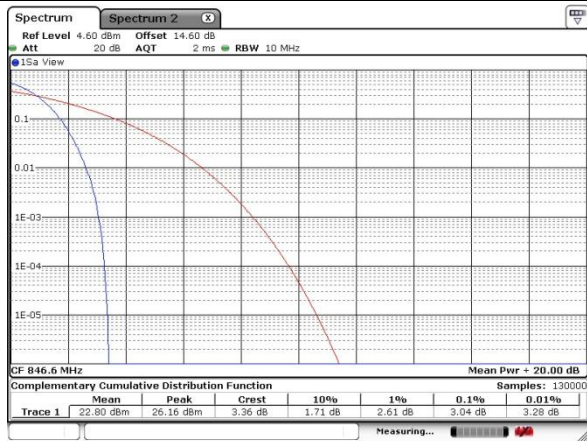
Middle Channel



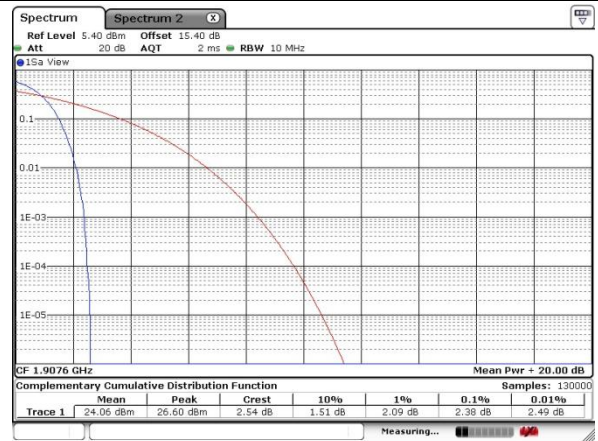
Middle Channel



Highest Channel



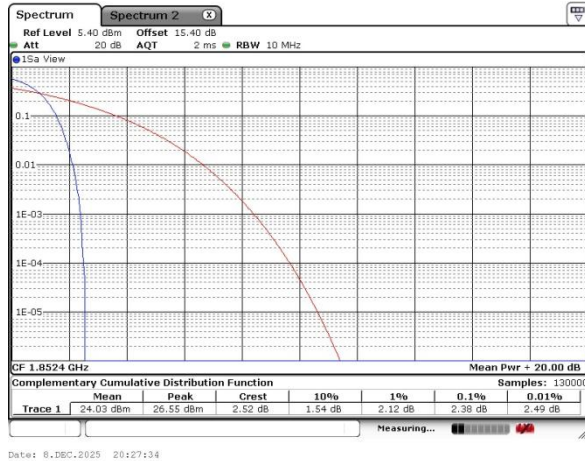
Highest Channel



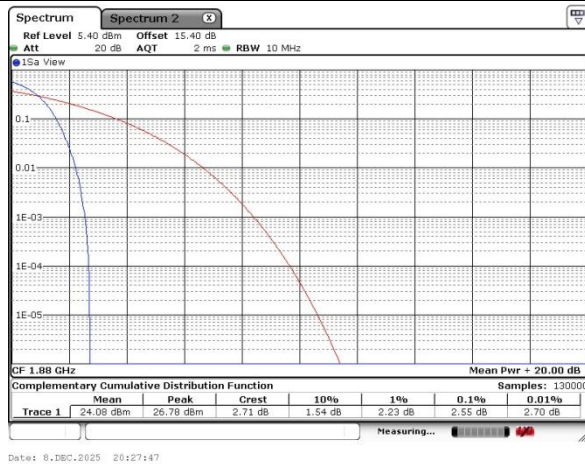


WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



Middle Channel



Highest Channel





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	4.695	4.725	4.725
Middle CH	4.695	4.715	4.715
Highest CH	4.685	4.735	4.735