FCC RF Test Report

APPLICANT	:	iMozen Group INC.
EQUIPMENT	:	Handheld mobile computer
BRAND NAME	:	iMozen Group INC.
MODEL NAME	:	TC605AN
FCC ID	:	SPYTC605AN
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Nov. 30, 2023 ~ Dec. 19, 2023

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

ACCREDITED
Cert #5145.02

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
FG3N2109-02A	Rev. 01	Initial issue of report	Jan. 11, 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	-
	§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 30.82 dB at 1672.00 MHz

Conformity Assessment Condition:

1. 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.
2. 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

iMozen Group INC.
6 F., No. 288, Sec. 6, Civic Blvd., Xinyi Dist., Taipei City 110417, Taiwan (R.O.C.)

1.2 Manufacturer

iMozen Group INC.
6 F., No. 288, Sec. 6, Civic Blvd., Xinyi Dist., Taipei City 110417, Taiwan (R.O.C.)

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Handheld mobile computer
Brand Name	iMozen Group INC.
Model Name	TC605AN
FCC ID	SPYTC605AN
IMEI Code	Conducted: 352149450707620 Radiation: 352149450708743/352149450708750 for sample 1 352149450712141/352149450712158 for sample 2
HW Version	V4
SW Version	ST6919A_20231220121856
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are three configs of samples, the differences could be referred to the TC605A_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, sample 1 full test and the sample 2 verify the worst case RSE for the difference, sample 3 no need additional test.

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	**<Ant 0>:** **GSM/GPRS/EDGE:** 850: 31.64 dBm 1900: 29.28 dBm **WCDMA:** Band V: 23.09 dBm Band II: 23.00 dBm Band IV: 22.76 dBm **<Ant 1>:** **GSM/GPRS/EDGE:** 850: 33.82 dBm **WCDMA:** Band V: 22.59 dBm
Antenna Gain	**Ant 0:** Cellular Band: -3.24 dBi PCS Band: -0.86 dBi AWS Band: -1.67 dBi **Ant 1:** Cellular Band: -4.31 dBi
Type of Modulation	GSM/GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK HSPA: QPSK HSPA+ : 16QAM DC-HSDPA: 64QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Antenna 0 for GSM1900/WCDMA Band II/IV/V, and Antenna 1 for GSM850 are shown in the report.

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	0.5445	241KGXW
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.1349	243KG7W
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0589	4M15F9W
Part 24	GSM1900 (GSM)	1850.2 ~ 1909.8	GMSK	0.6950	243KGXW
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.2636	245KG7W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1637	4M16F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1285	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.**
	03CH04-KS TH01-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 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

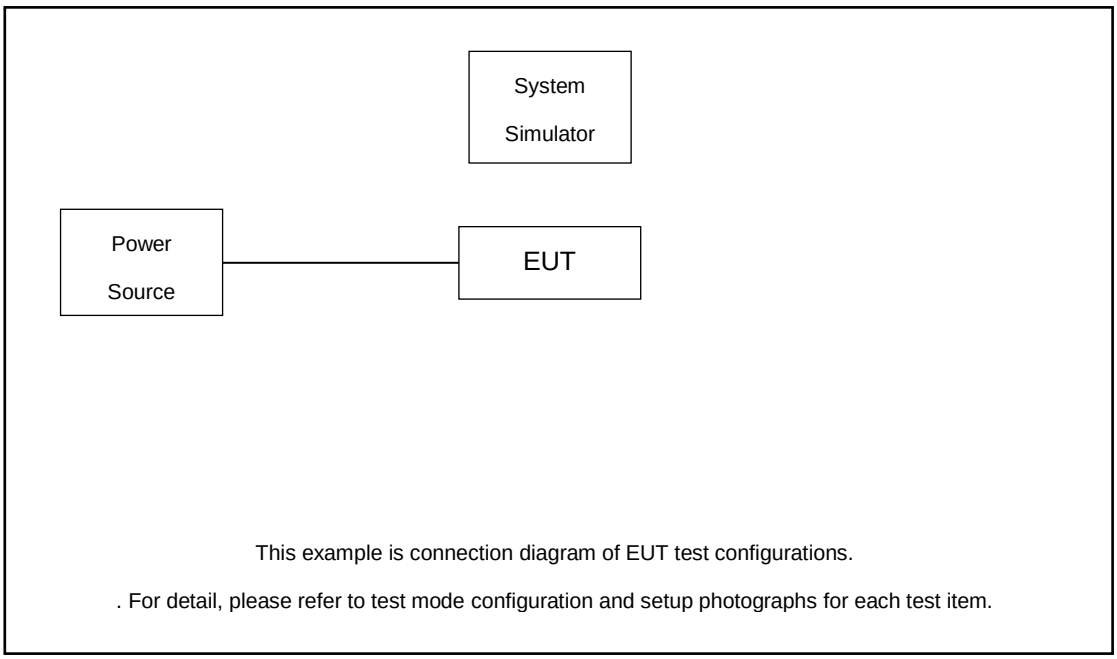
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

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	■ GSM Link ■ EDGE 1 Tx slots Link	■ GSM Link ■ EDGE 1 Tx slots Link
GSM 1900	■ GSM Link ■ EDGE 1 Tx slots Link	■ GSM 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.	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 4.8 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.8 + 10 = 14.8 (dB)

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

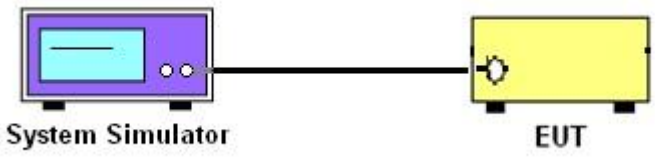
3 Conducted Test Result

3.1 Measuring Instruments

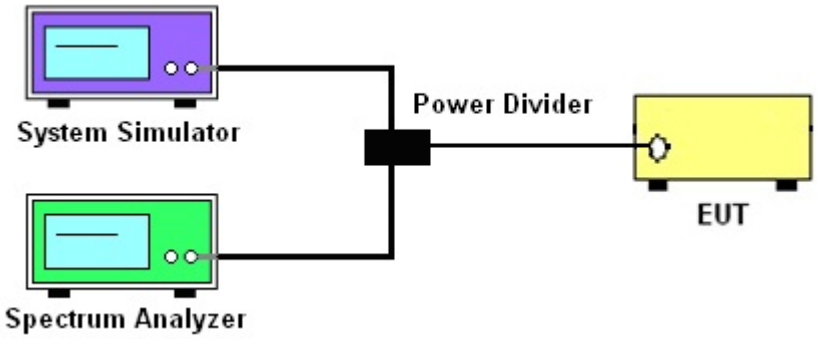
See list of measuring instruments of this test report.

3.2 Test Setup

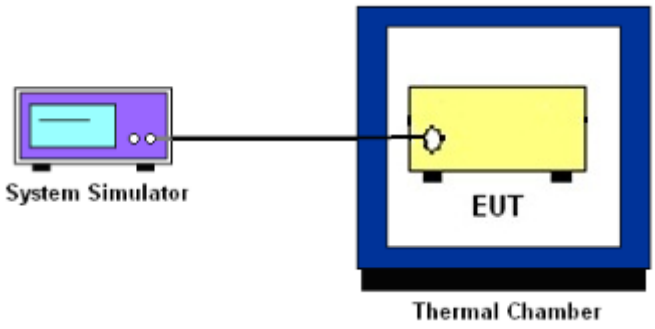
3.2.1 Conducted Output Power



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 + 10log(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 + 10log(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 ±0.00025% (±2.5ppm) 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±5°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.

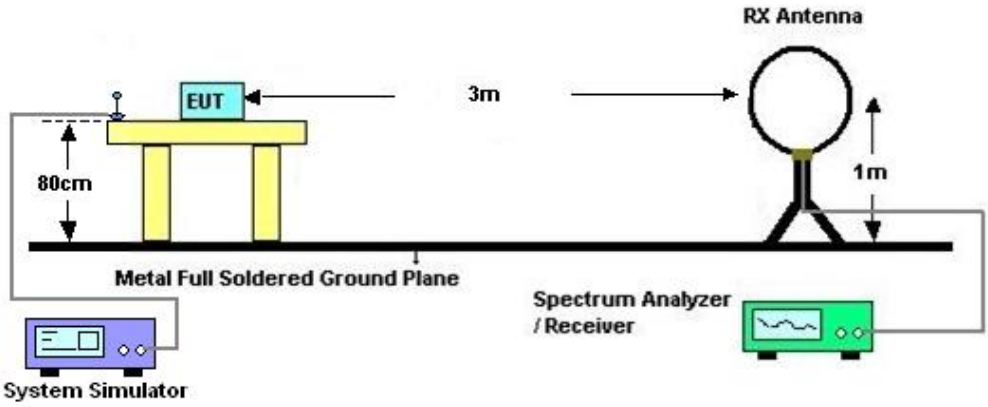
4 Radiated Test Items

4.1 Measuring Instruments

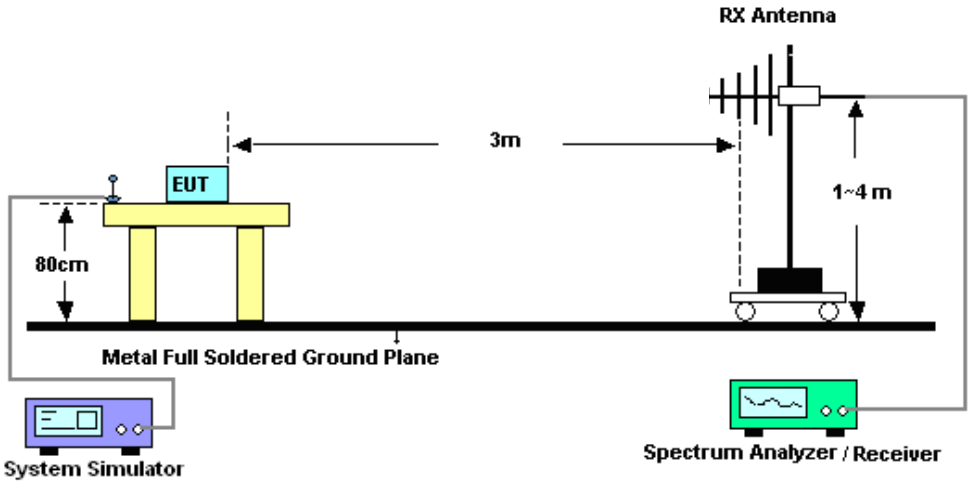
See list of measuring instruments of this test report.

4.2 Test Setup

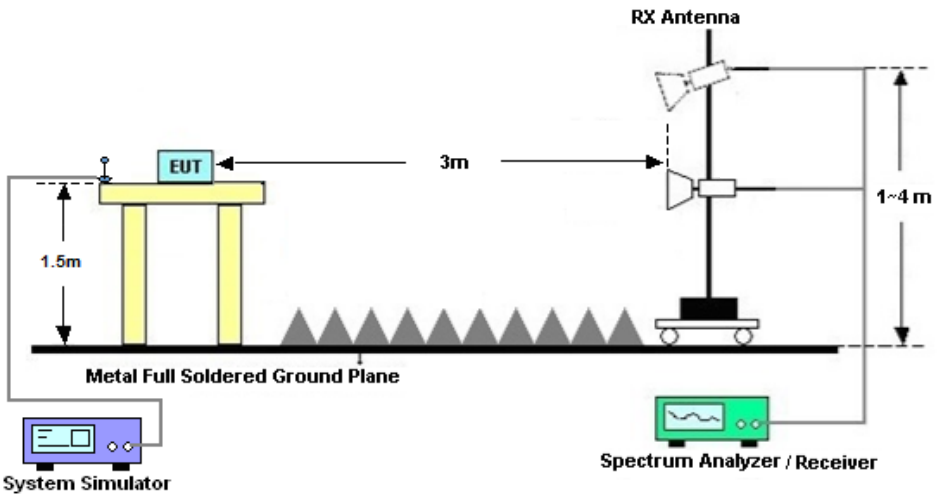
4.2.1 For radiated test below 30MHz



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 (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (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 + 10log(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	101040	10Hz~40GHz	Oct. 11, 2023	Nov. 30, 2023	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	/	Nov. 30, 2023	/	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Nov. 30, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Dec. 19, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Dec. 19, 2023	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Dec. 19, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 10, 2023	Dec. 19, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Dec. 19, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Dec. 19, 2023	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Dec. 19, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 10, 2023	Dec. 19, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Dec. 19, 2023	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 19, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 19, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 19, 2023	NCR	Radiation (03CH04-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	**±2.26 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.46 dB**
Peak to Average Ratio	**±0.46 dB**
Frequency Stability	**±0.4 Hz**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.82dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.56dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.54dB**

---------- 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	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	33.42	33.65	33.82	0.4966	0.5236	0.5445
GPRS 1 Tx slot	33.49	33.76	33.76	0.5047	0.5370	0.5370
GPRS 2 Tx slots	30.44	30.69	30.46	0.2500	0.2649	0.2512
GPRS 3 Tx slots	28.51	28.75	28.73	0.1603	0.1694	0.1687
GPRS 4 Tx slots	27.48	27.48	27.76	0.1265	0.1265	0.1349
EDGE 1 Tx slot	27.76	27.60	27.59	0.1349	0.1300	0.1297
EDGE 2 Tx slots	25.02	24.96	25.16	0.0718	0.0708	0.0741
EDGE 3 Tx slots	22.97	22.89	23.31	0.0448	0.0440	0.0484
EDGE 4 Tx slots	21.34	21.33	21.55	0.0308	0.0307	0.0323

GSM1900_ Ant0	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	28.88	29.28	29.27	0.6339	0.6950	0.6934
GPRS 1 Tx slot	29.11	29.26	29.16	0.6683	0.6918	0.6761
GPRS 2 Tx slots	26.31	26.61	26.61	0.3508	0.3758	0.3758
GPRS 3 Tx slots	24.42	24.54	24.50	0.2270	0.2333	0.2312
GPRS 4 Tx slots	22.27	22.37	22.48	0.1384	0.1416	0.1452
EDGE 1 Tx slot	24.91	25.07	25.02	0.2541	0.2636	0.2606
EDGE 2 Tx slots	22.47	22.67	22.53	0.1449	0.1517	0.1469
EDGE 3 Tx slots	20.34	20.71	20.71	0.0887	0.0966	0.0966
EDGE 4 Tx slots	18.66	19.07	18.93	0.0603	0.0662	0.0641

Band		WCDMA II_ Ant0			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	22.60	22.89	22.77	0.1493	0.1596	0.1552
3GPP Rel 99	RMC 12.2Kbps	22.80	23.00	22.83	0.1563	0.1637	0.1574
3GPP Rel 6	HSDPA Subtest-1	21.72	22.10	21.87	0.1219	0.1330	0.1262
3GPP Rel 6	HSDPA Subtest-2	21.81	21.98	21.89	0.1245	0.1294	0.1268
3GPP Rel 6	HSDPA Subtest-3	21.41	21.62	21.41	0.1135	0.1191	0.1135
3GPP Rel 6	HSDPA Subtest-4	21.29	21.49	21.21	0.1104	0.1156	0.1084
3GPP Rel 6	HSUPA Subtest-1	21.66	21.95	21.81	0.1202	0.1285	0.1245
3GPP Rel 6	HSUPA Subtest-2	20.75	20.92	20.73	0.0975	0.1014	0.0971
3GPP Rel 6	HSUPA Subtest-3	20.62	21.03	20.96	0.0946	0.1040	0.1023
3GPP Rel 6	HSUPA Subtest-4	19.71	19.95	19.94	0.0767	0.0811	0.0809
3GPP Rel 6	HSUPA Subtest-5	21.69	22.01	21.88	0.1211	0.1303	0.1265
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.39	19.71	19.58	0.0713	0.0767	0.0745

Band		WCDMA V_ Ant0			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	22.94	22.98	22.97	0.0569	0.0574	0.0573
3GPP Rel 99	RMC 12.2Kbps	23.05	23.09	23.00	0.0583	0.0589	0.0577
3GPP Rel 6	HSDPA Subtest-1	22.04	22.11	21.85	0.0462	0.0470	0.0443
3GPP Rel 6	HSDPA Subtest-2	22.15	21.99	22.03	0.0474	0.0457	0.0461
3GPP Rel 6	HSDPA Subtest-3	21.49	21.48	21.42	0.0407	0.0406	0.0401
3GPP Rel 6	HSDPA Subtest-4	21.59	21.46	21.65	0.0417	0.0405	0.0423
3GPP Rel 6	HSUPA Subtest-1	22.05	22.12	21.94	0.0463	0.0471	0.0452
3GPP Rel 6	HSUPA Subtest-2	19.96	19.96	20.03	0.0286	0.0286	0.0291
3GPP Rel 6	HSUPA Subtest-3	20.90	21.22	20.89	0.0356	0.0383	0.0355
3GPP Rel 6	HSUPA Subtest-4	20.13	20.07	19.85	0.0298	0.0294	0.0279
3GPP Rel 6	HSUPA Subtest-5	21.89	21.92	22.13	0.0447	0.0450	0.0472
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.59	19.62	19.83	0.0263	0.0265	0.0278

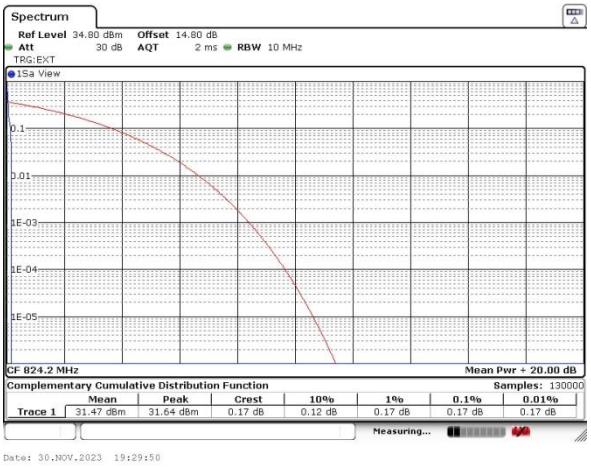
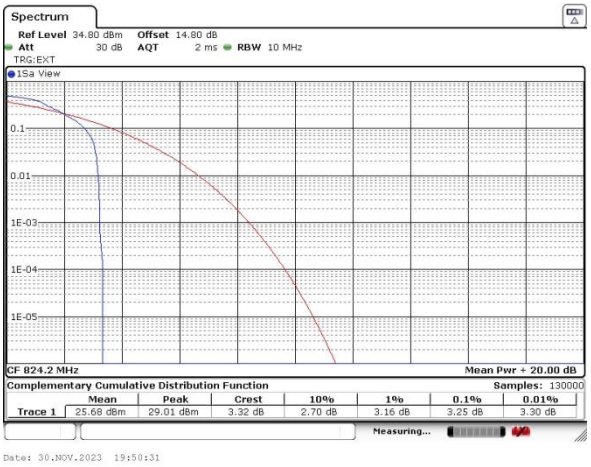
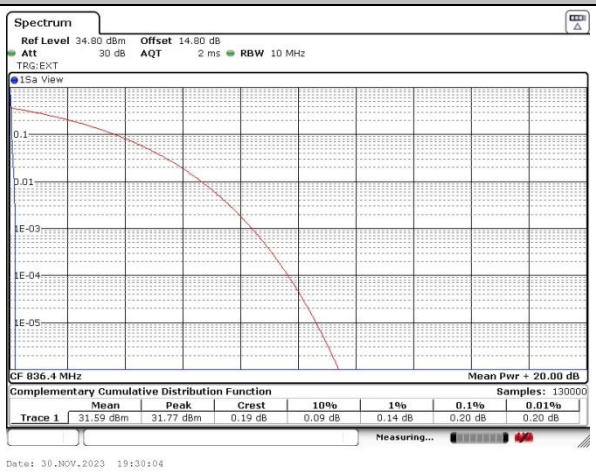
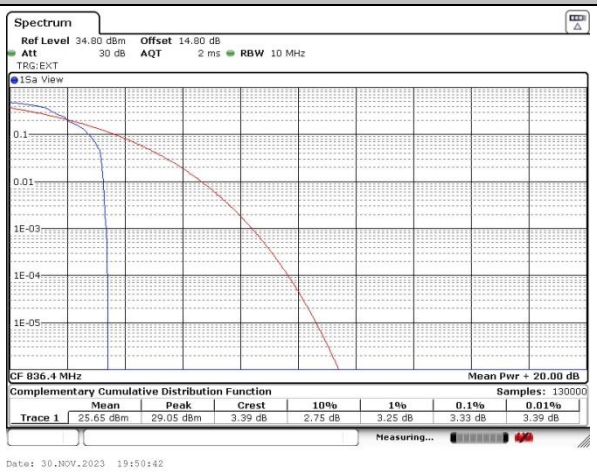
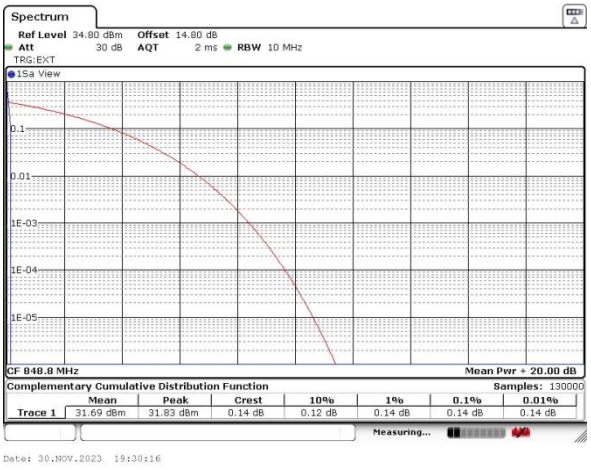
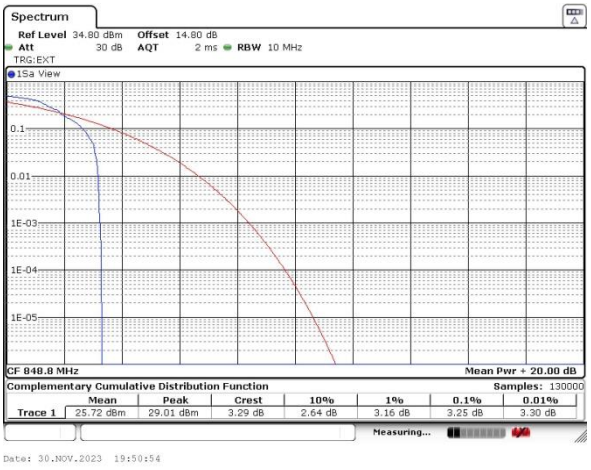
Band		WCDMA IV_ Ant0			EIRP(W)		
TX Channel		1312	1413	1513			
Rx Channel		1537	1638	1738			
Frequency (MHz)		1712.4	1732.6	1752.6	L	M	H
3GPP Rel 99	AMR 12.2Kbps	22.63	22.66	22.40	0.1247	0.1256	0.1183
3GPP Rel 99	RMC 12.2Kbps	22.65	22.76	22.60	0.1253	0.1285	0.1239
3GPP Rel 6	HSDPA Subtest-1	21.76	21.85	21.69	0.1021	0.1042	0.1005
3GPP Rel 6	HSDPA Subtest-2	21.58	21.81	21.48	0.0979	0.1033	0.0957
3GPP Rel 6	HSDPA Subtest-3	20.98	21.27	20.93	0.0853	0.0912	0.0843
3GPP Rel 6	HSDPA Subtest-4	21.19	21.20	20.94	0.0895	0.0897	0.0845
3GPP Rel 6	HSUPA Subtest-1	21.43	21.66	21.29	0.0946	0.0998	0.0916
3GPP Rel 6	HSUPA Subtest-2	19.66	19.78	19.47	0.0630	0.0647	0.0603
3GPP Rel 6	HSUPA Subtest-3	20.59	20.66	20.36	0.0780	0.0793	0.0740
3GPP Rel 6	HSUPA Subtest-4	19.66	19.86	19.55	0.0630	0.0659	0.0614
3GPP Rel 6	HSUPA Subtest-5	21.36	21.74	21.34	0.0931	0.1016	0.0927
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.06	19.44	19.04	0.0548	0.0598	0.0546

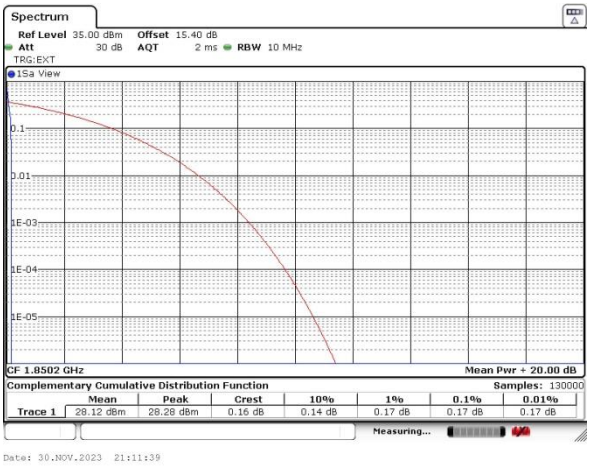
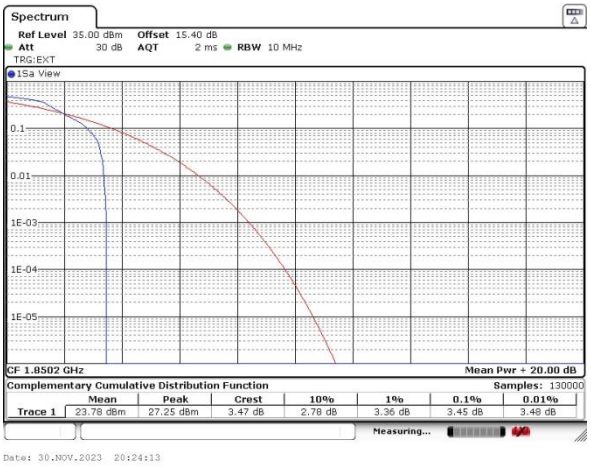
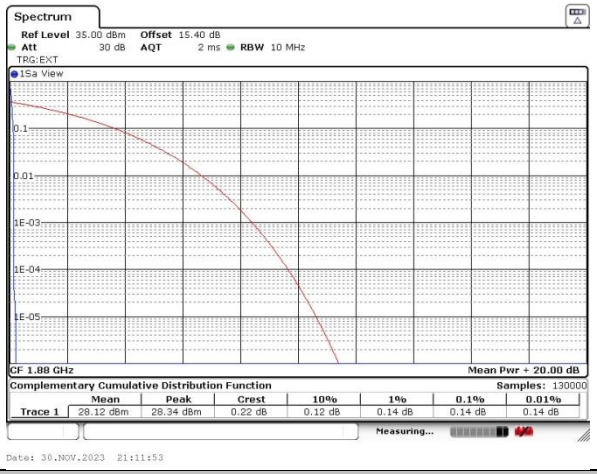
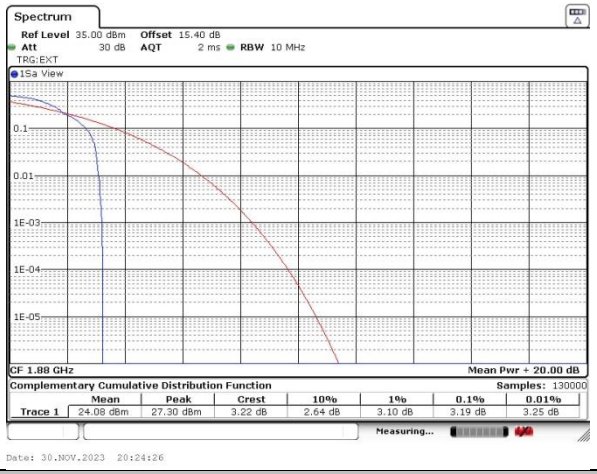
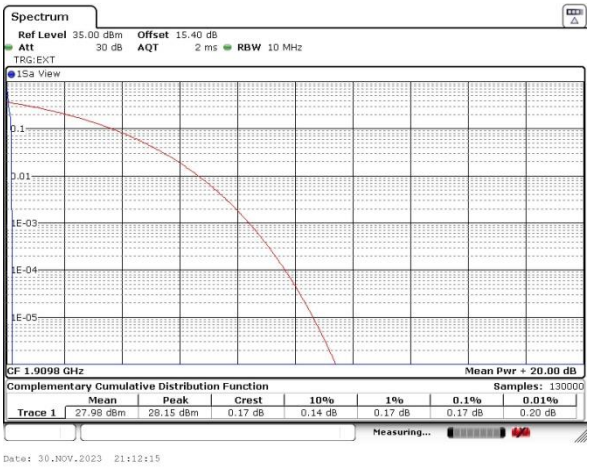
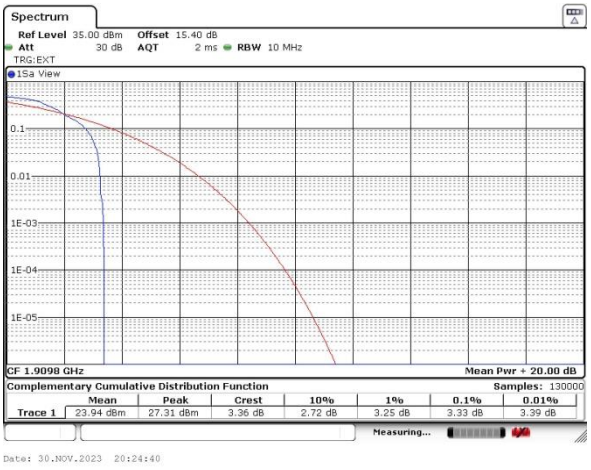
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.17	3.25	PASS
Middle CH	0.20	3.33	
Highest CH	0.14	3.25	

Mode	GSM1900		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.17	3.45	PASS
Middle CH	0.14	3.19	
Highest CH	0.17	3.33	

GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

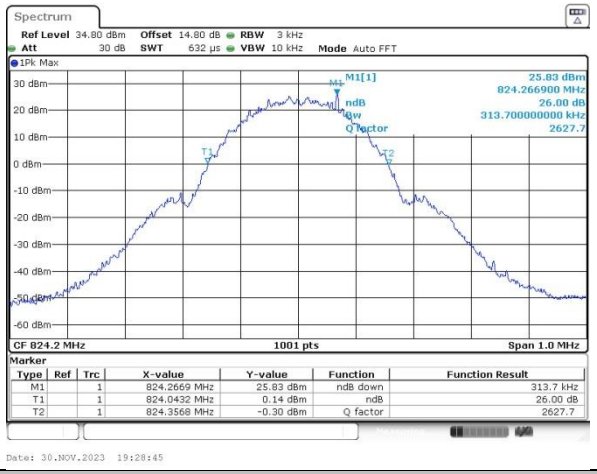
26dB Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.314	0.311
Middle CH	0.313	0.312
Highest CH	0.313	0.314

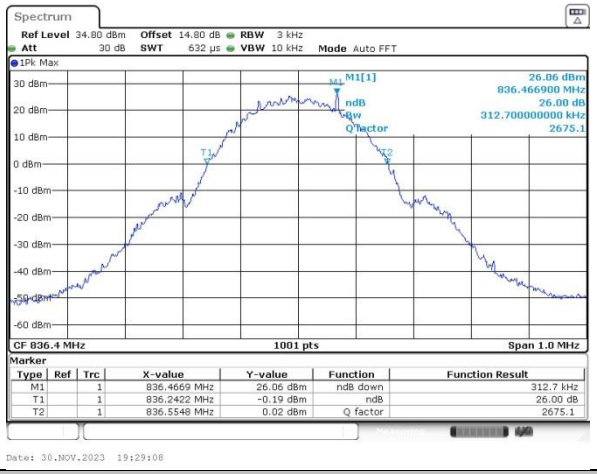
Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.313
Middle CH	0.314	0.308
Highest CH	0.313	0.312

GSM850 (GSM)

Lowest Channel



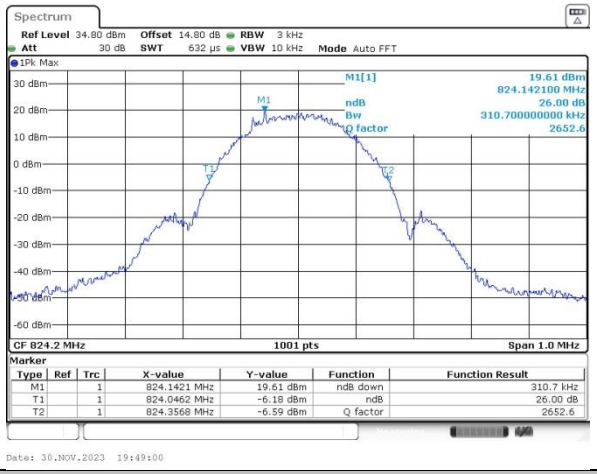
Middle Channel



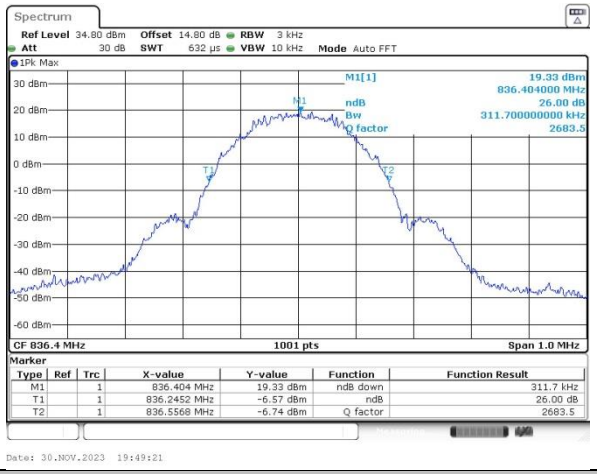
Highest Channel

GSM850 (EDGE class 8)

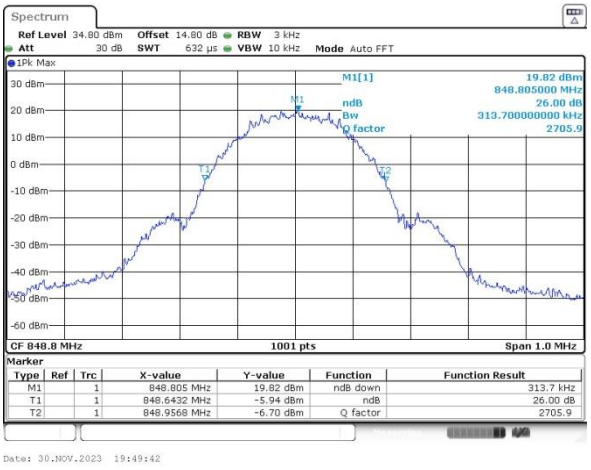
Lowest Channel



Middle Channel

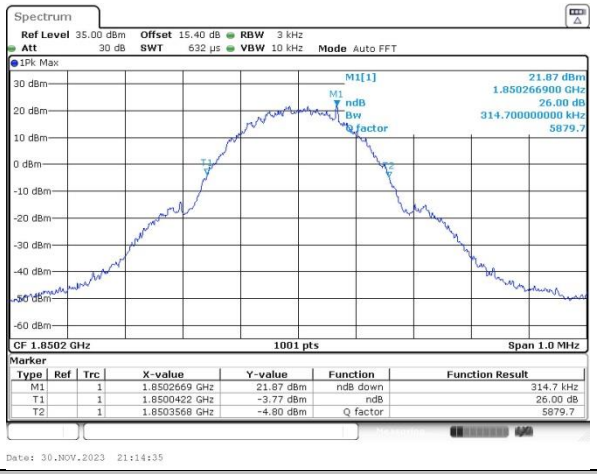


Highest Channel

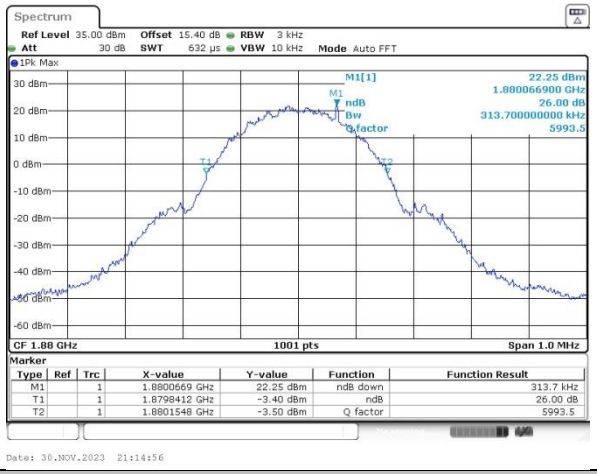


GSM1900 (GSM)

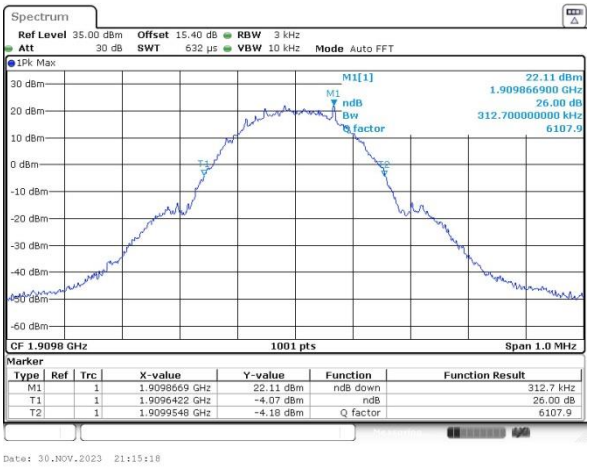
Lowest Channel



Middle Channel

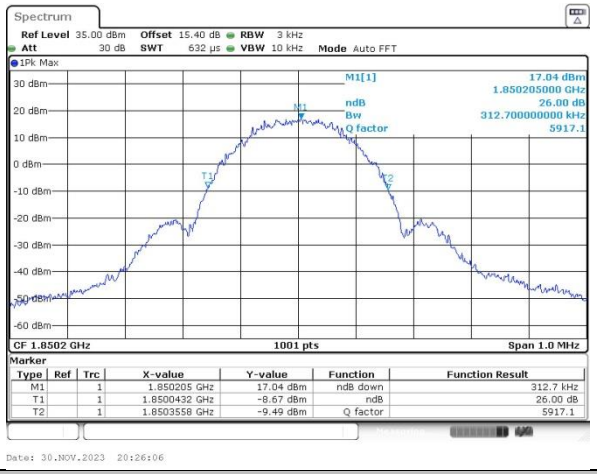


Highest Channel

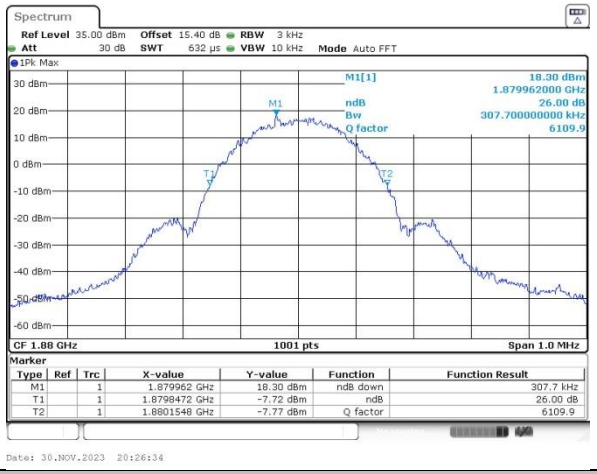


GSM1900 (EDGE class 8)

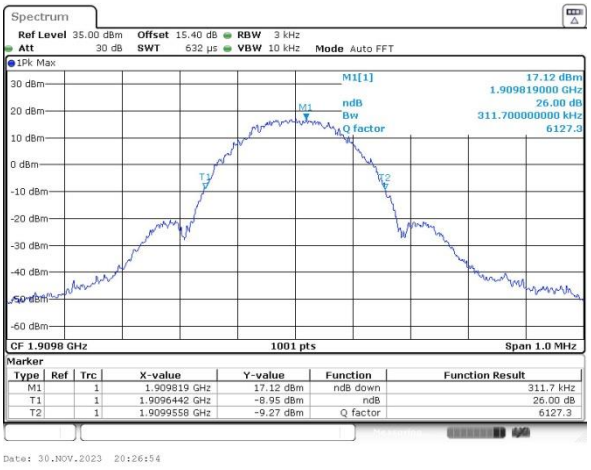
Lowest Channel



Middle Channel



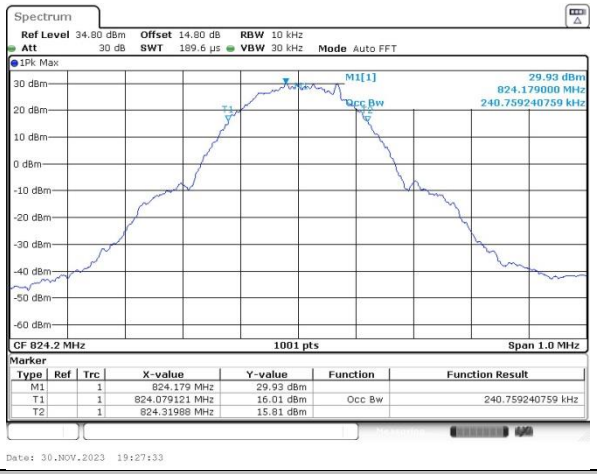
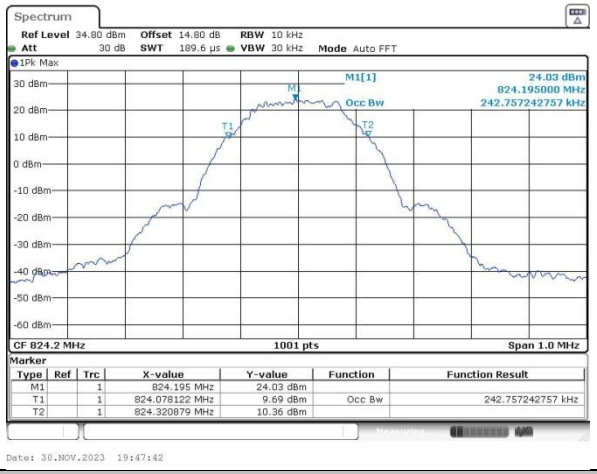
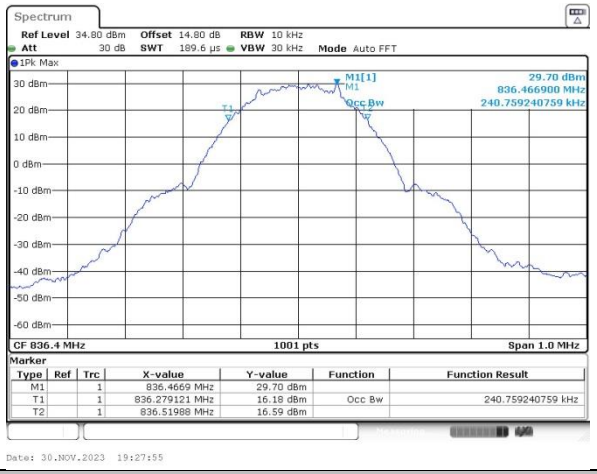
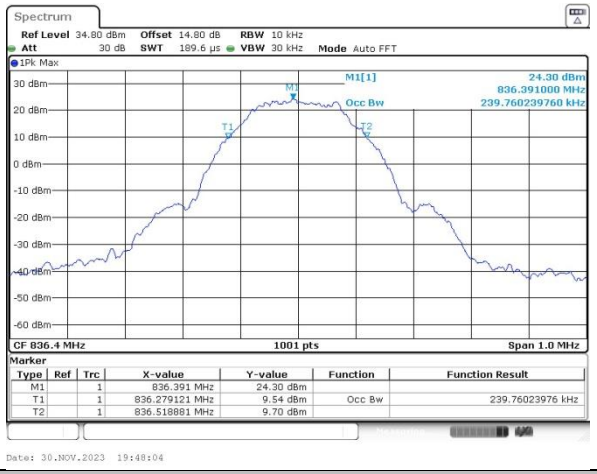
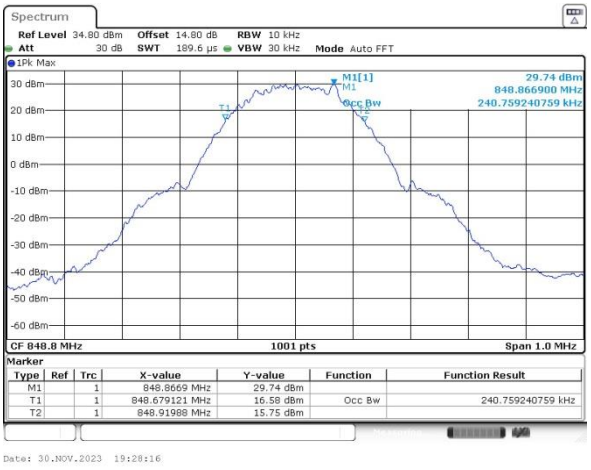
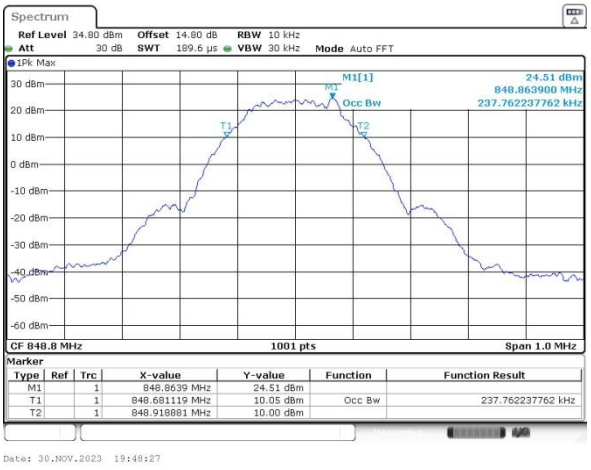
Highest Channel

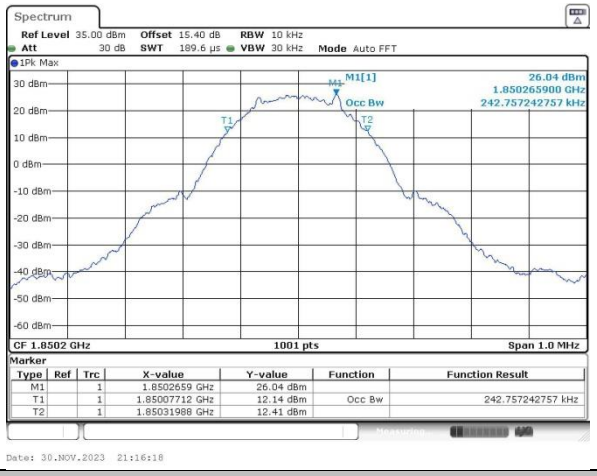
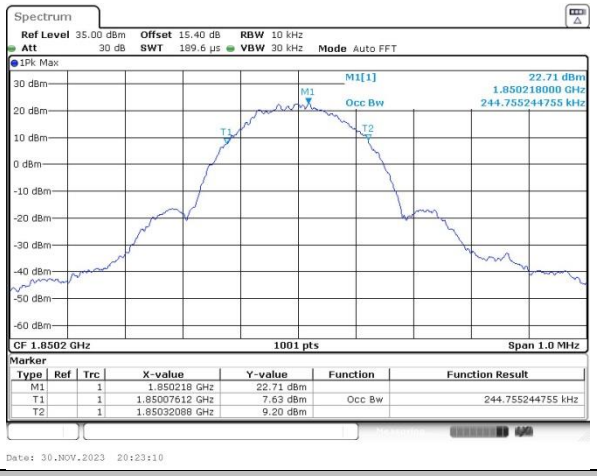
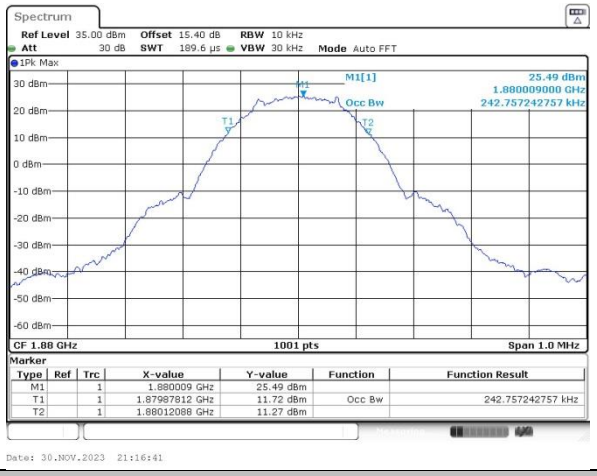
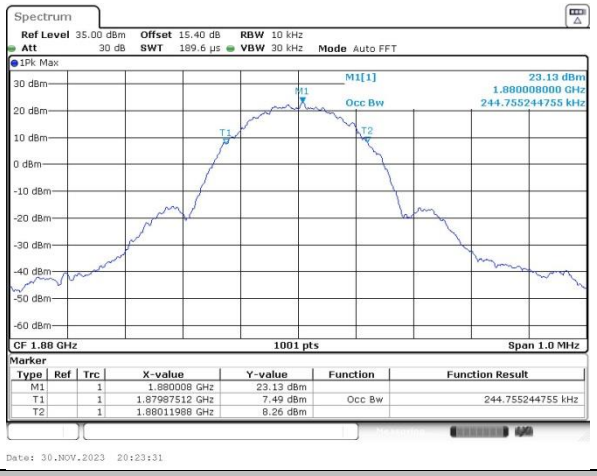
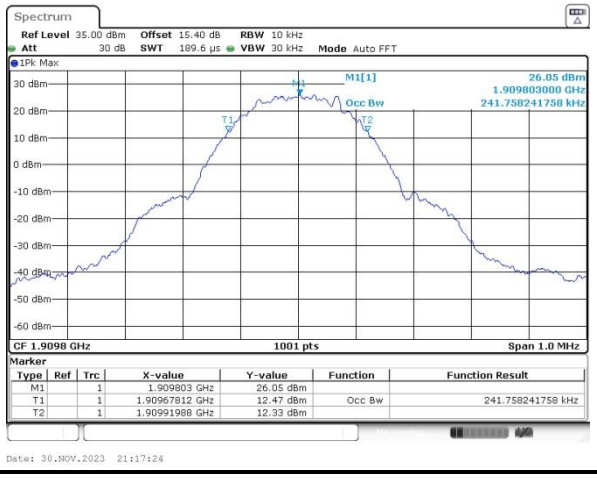
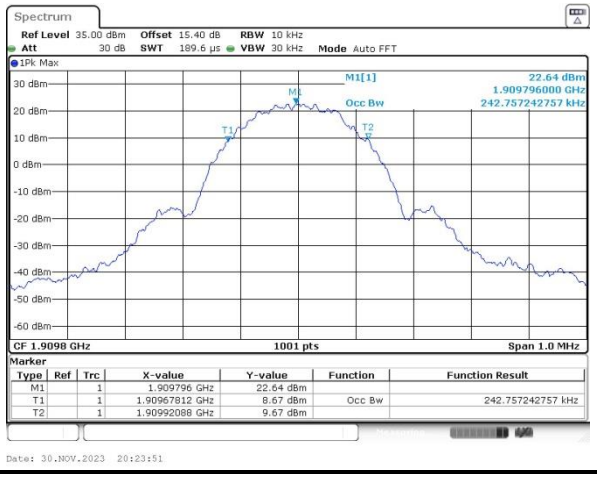


Occupied Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.241	0.243
Middle CH	0.241	0.240
Highest CH	0.241	0.238

Mode	GSM1900	
Mod.	GSM	EDGE class 8
Lowest CH	0.243	0.245
Middle CH	0.243	0.245
Highest CH	0.242	0.243

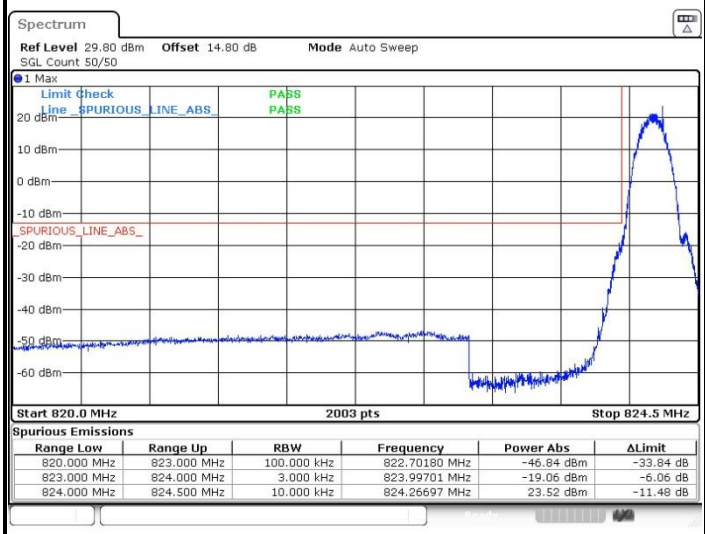
GSM850 (GSM)	GSM850 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Cannel**
	

Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

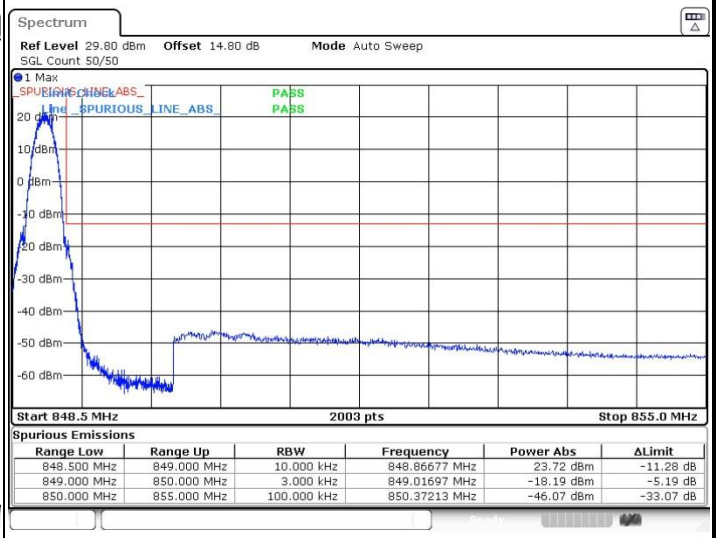


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.70180 MHz	-46.84 dBm	-33.84 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99701 MHz	-19.06 dBm	-6.06 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.26697 MHz	23.52 dBm	-11.48 dB

Date: 30.NOV.2023 19:35:32

Highest Band Edge



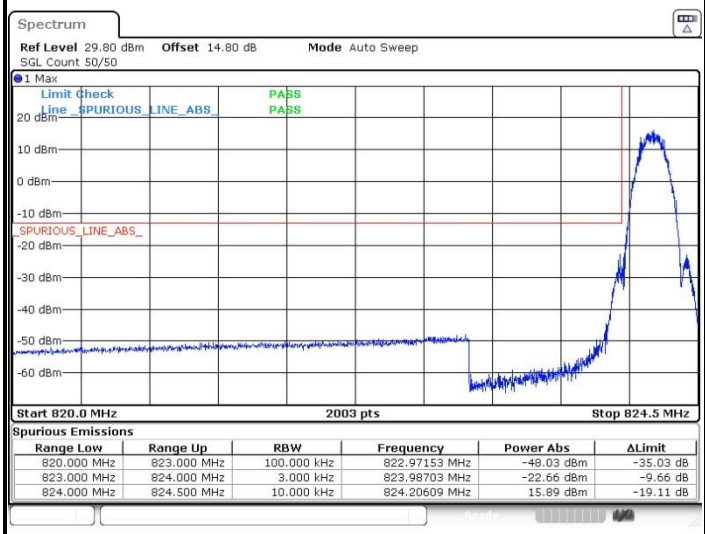
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.86677 MHz	23.72 dBm	-11.28 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.01697 MHz	-18.19 dBm	-5.19 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.37213 MHz	-46.07 dBm	-33.07 dB

Date: 30.NOV.2023 19:37:12

GSM850 (EDGE class 8)

Lowest Band Edge

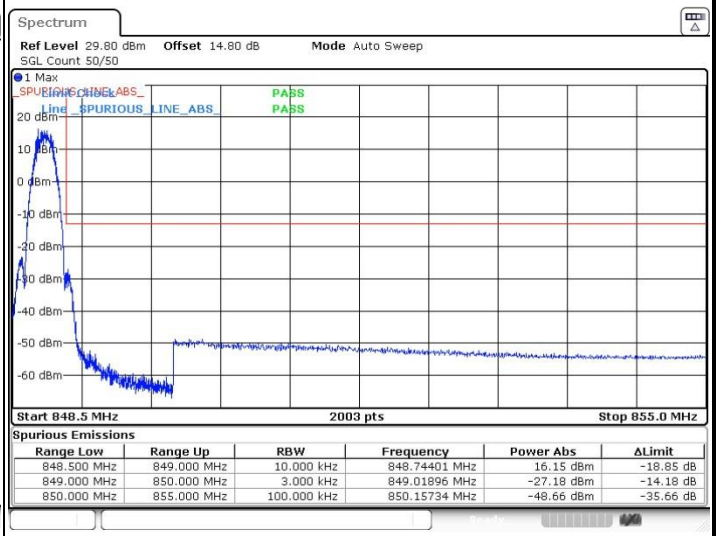


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.97153 MHz	-48.03 dBm	-35.03 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.98703 MHz	-22.66 dBm	-9.66 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.20609 MHz	15.89 dBm	-19.11 dB

Date: 30.NOV.2023 19:53:22

Highest Band Edge



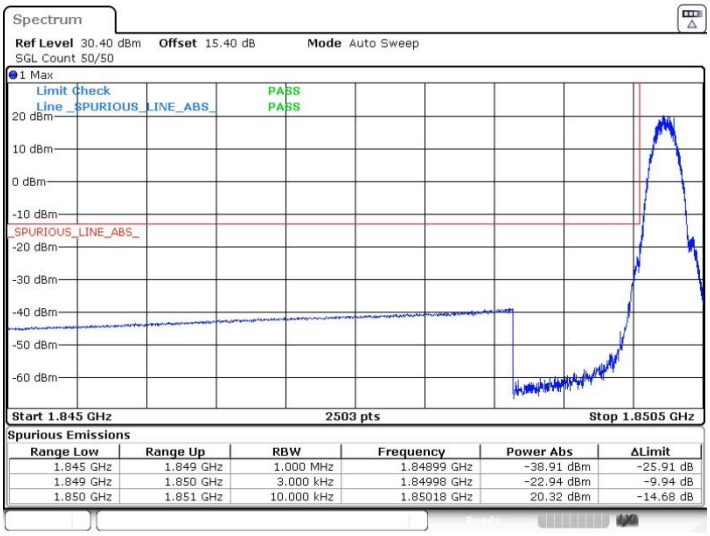
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.74401 MHz	16.15 dBm	-18.85 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.01896 MHz	-27.18 dBm	-14.18 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.15734 MHz	-48.66 dBm	-35.66 dB

Date: 30.NOV.2023 19:54:49

GSM1900 (GSM)

Lowest Band Edge

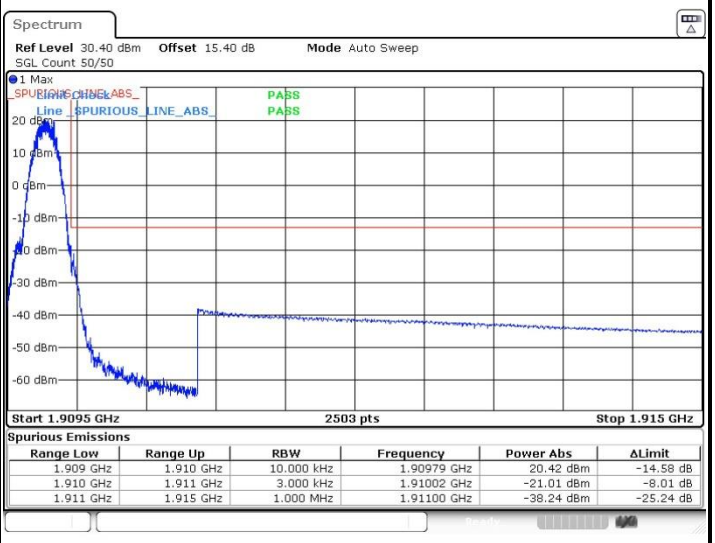


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-38.91 dBm	-25.91 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.84998 GHz	-22.94 dBm	-9.94 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85018 GHz	20.32 dBm	-14.68 dB

Date: 30.NOV.2023 21:19:05

Highest Band Edge



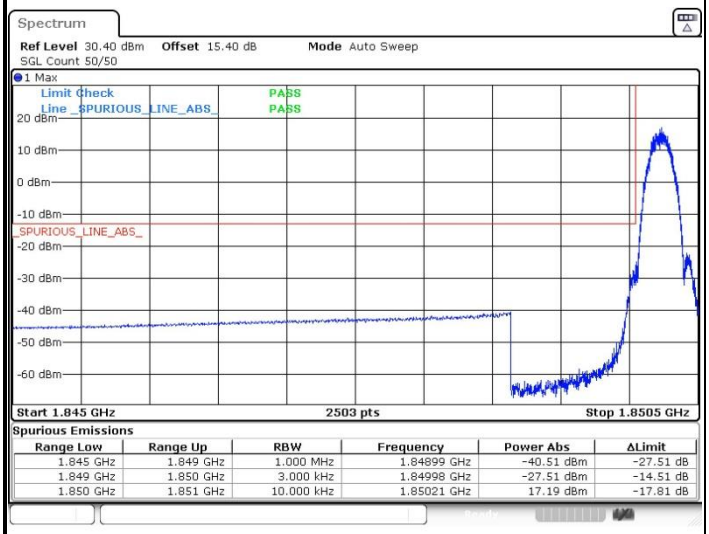
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90979 GHz	20.42 dBm	-14.58 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91002 GHz	-21.01 dBm	-8.01 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91100 GHz	-38.24 dBm	-25.24 dB

Date: 30.NOV.2023 21:20:36

GSM1900 (EDGE class 8)

Lowest Band Edge

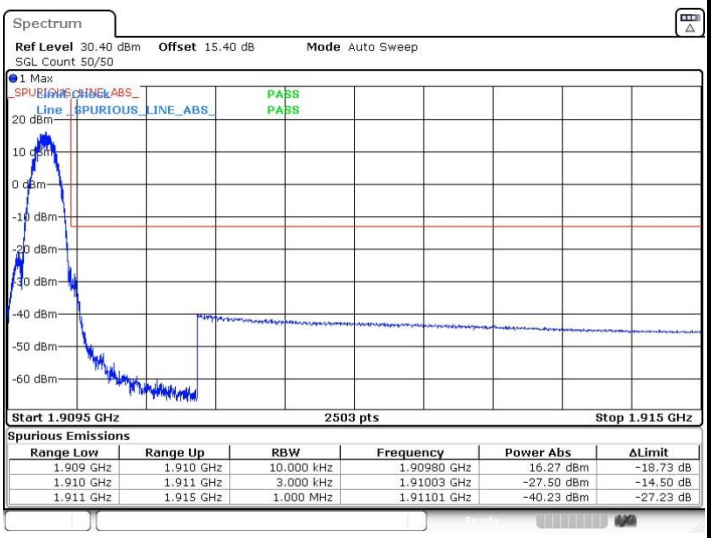


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-40.51 dBm	-27.51 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.84998 GHz	-27.51 dBm	-14.51 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85021 GHz	17.19 dBm	-17.81 dB

Date: 30.NOV.2023 20:19:41

Highest Band Edge



Spurious Emissions

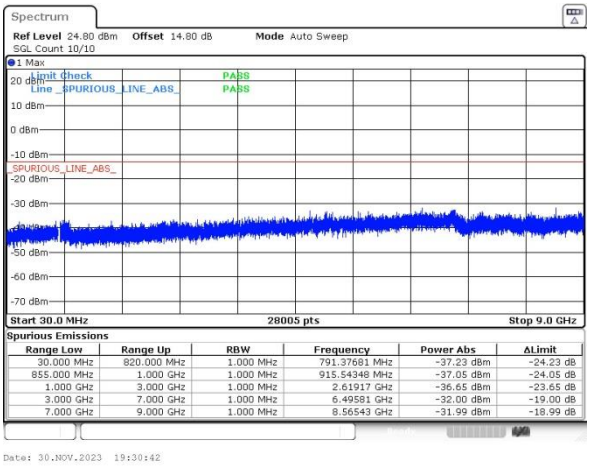
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90980 GHz	16.27 dBm	-18.73 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91003 GHz	-27.50 dBm	-14.50 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91101 GHz	-40.23 dBm	-27.23 dB

Date: 30.NOV.2023 20:21:12

Conducted Spurious Emission

GSM850 (GSM)

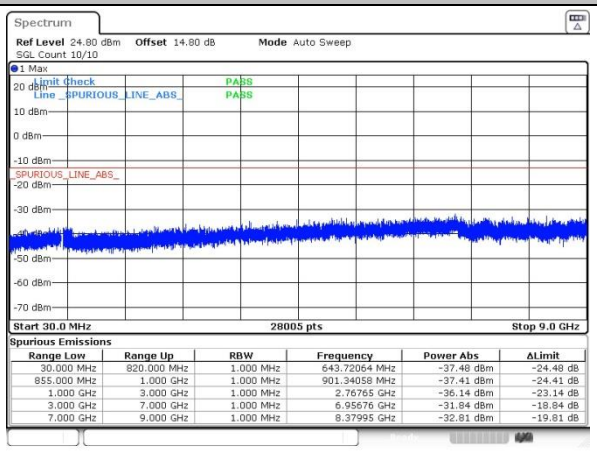
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	791.37681 MHz	-37.23 dBm	-24.23 dB
855.000 MHz	1.000 GHz	1.000 MHz	915.54348 MHz	-37.05 dBm	-24.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.61917 GHz	-36.65 dBm	-23.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.49581 GHz	-32.00 dBm	-19.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.56543 GHz	-31.99 dBm	-18.99 dB

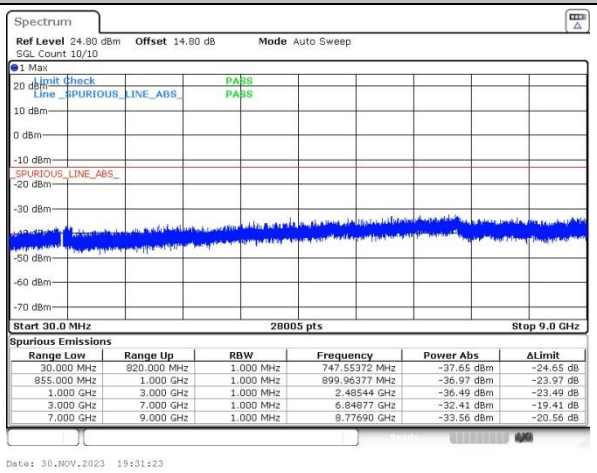
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	643.72064 MHz	-37.48 dBm	-24.48 dB
855.000 MHz	1.000 GHz	1.000 MHz	901.34058 MHz	-37.41 dBm	-24.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.76765 GHz	-36.14 dBm	-23.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95676 GHz	-31.84 dBm	-18.84 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.37995 GHz	-32.81 dBm	-19.81 dB

Highest Channel

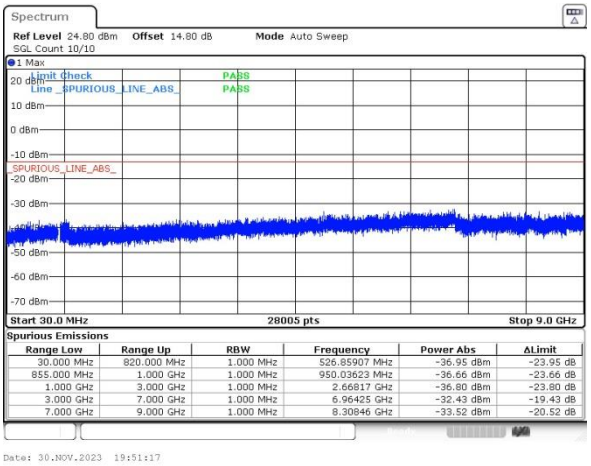


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	747.55372 MHz	-37.65 dBm	-24.65 dB
855.000 MHz	1.000 GHz	1.000 MHz	899.96377 MHz	-36.97 dBm	-23.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48544 GHz	-36.49 dBm	-23.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84877 GHz	-32.41 dBm	-19.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77690 GHz	-33.56 dBm	-20.56 dB

GSM850 (EDGE class 8)

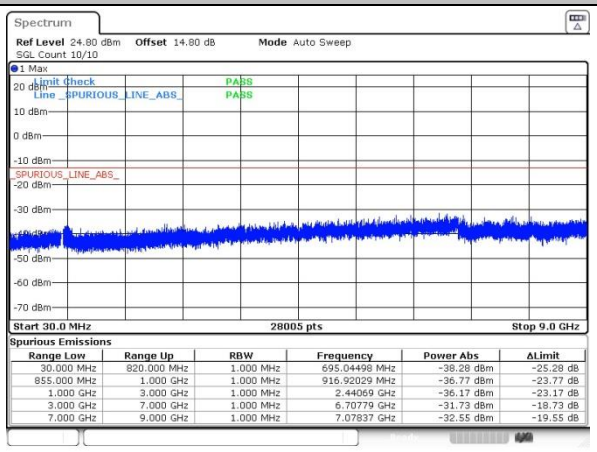
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	526.85907 MHz	-36.95 dBm	-23.95 dB
855.000 MHz	1.000 GHz	1.000 MHz	950.03623 MHz	-36.66 dBm	-23.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.66817 GHz	-36.80 dBm	-23.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96425 GHz	-32.43 dBm	-19.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.30846 GHz	-33.52 dBm	-20.52 dB

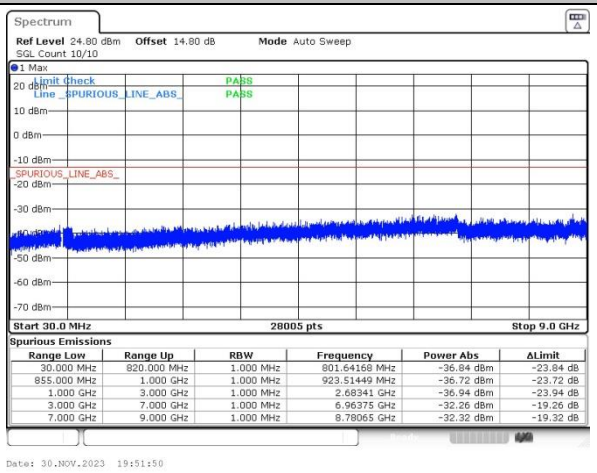
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	695.04498 MHz	-38.28 dBm	-25.28 dB
855.000 MHz	1.000 GHz	1.000 MHz	916.92029 MHz	-36.77 dBm	-23.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.44069 GHz	-36.17 dBm	-23.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.70779 GHz	-31.73 dBm	-18.73 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07837 GHz	-32.55 dBm	-19.55 dB

Highest Channel

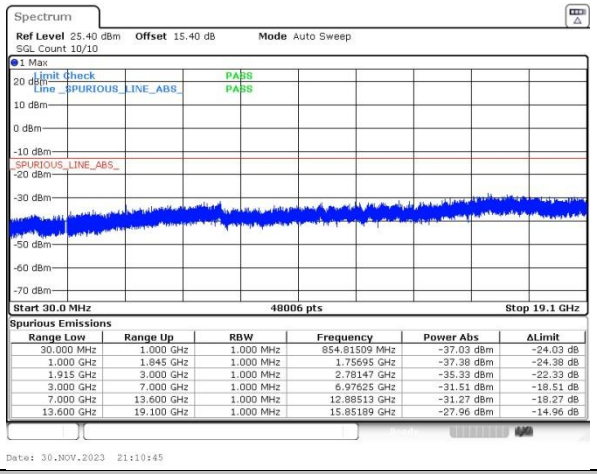


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	801.64168 MHz	-36.84 dBm	-23.84 dB
855.000 MHz	1.000 GHz	1.000 MHz	923.51449 MHz	-36.72 dBm	-23.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.68341 GHz	-36.94 dBm	-23.94 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96375 GHz	-32.26 dBm	-19.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.78065 GHz	-32.32 dBm	-19.32 dB

GSM1900 (GSM)

Lowest Channel

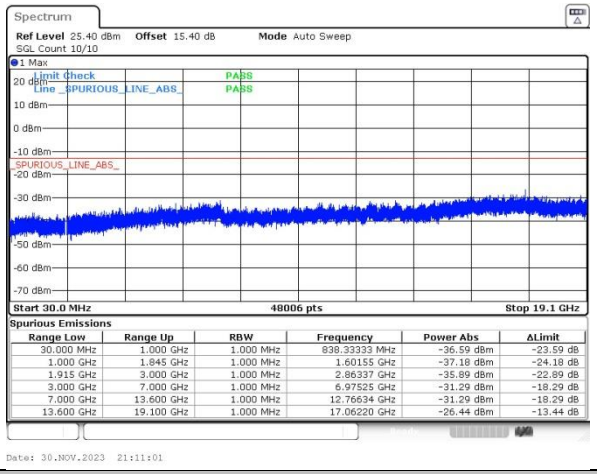


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	854.81509 MHz	-37.03 dBm	-24.03 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.75695 GHz	-37.38 dBm	-24.38 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.78147 GHz	-35.33 dBm	-22.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97625 GHz	-31.51 dBm	-18.51 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.88513 GHz	-31.27 dBm	-18.27 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.85189 GHz	-27.96 dBm	-14.96 dB

Date: 30.NOV.2023 21:10:45

Middle Channel

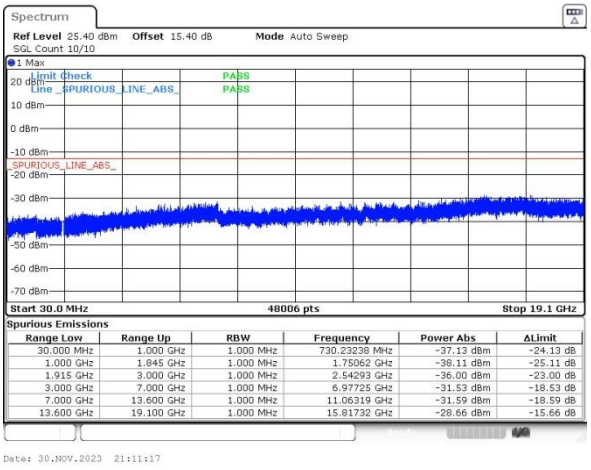


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	838.33333 MHz	-36.59 dBm	-23.59 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.60155 GHz	-37.18 dBm	-24.18 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.86337 GHz	-35.89 dBm	-22.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97525 GHz	-31.29 dBm	-18.29 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.76634 GHz	-31.29 dBm	-18.29 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.06220 GHz	-26.44 dBm	-13.44 dB

Date: 30.NOV.2023 21:11:01

Highest Channel



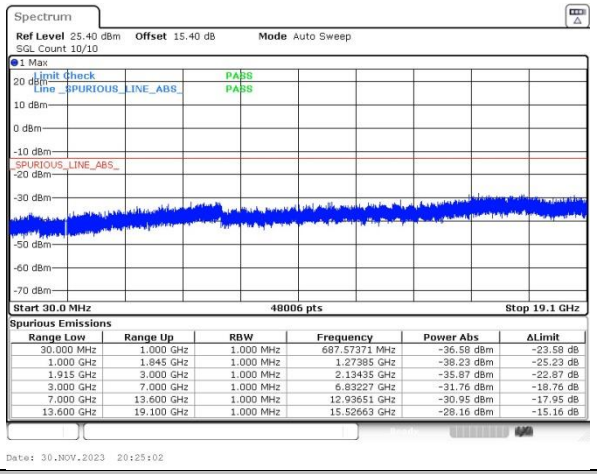
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	730.23238 MHz	-37.13 dBm	-24.13 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.75062 GHz	-38.11 dBm	-25.11 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.54293 GHz	-36.00 dBm	-23.00 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97725 GHz	-31.53 dBm	-18.53 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.06319 GHz	-31.59 dBm	-18.59 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.81732 GHz	-28.66 dBm	-15.66 dB

Date: 30.NOV.2023 21:11:17

GSM1900 (EDGE class 8)

Lowest Channel

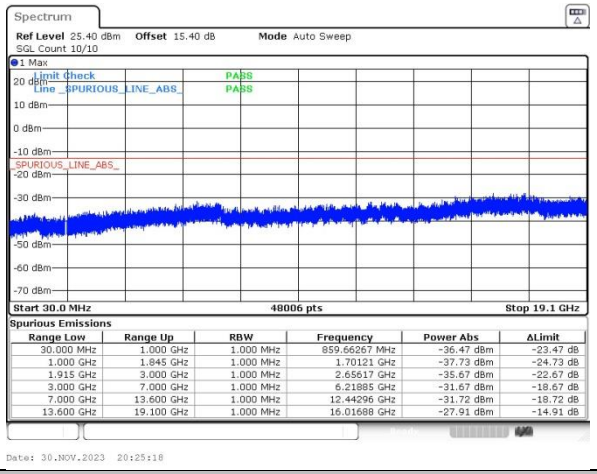


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	687.57371 MHz	-36.58 dBm	-23.58 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.27385 GHz	-38.23 dBm	-25.23 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.13435 GHz	-35.87 dBm	-22.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83227 GHz	-31.76 dBm	-18.76 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.93651 GHz	-30.95 dBm	-17.95 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.52663 GHz	-28.16 dBm	-15.16 dB

Date: 30.NOV.2023 20:25:02

Middle Channel

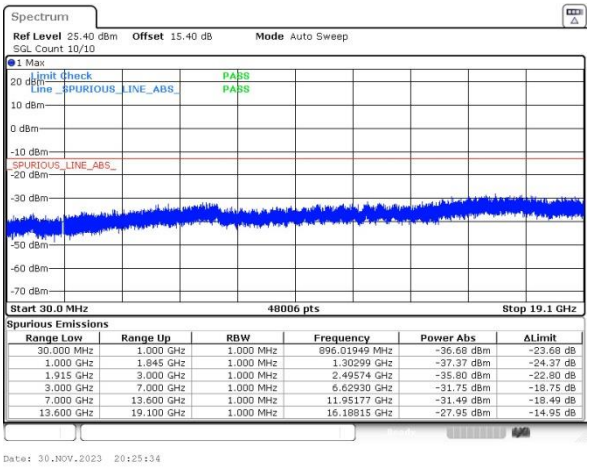


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	859.66267 MHz	-36.47 dBm	-23.47 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.70121 GHz	-37.73 dBm	-24.73 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.65617 GHz	-35.67 dBm	-22.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.21885 GHz	-31.67 dBm	-18.67 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.44296 GHz	-31.72 dBm	-18.72 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.01688 GHz	-27.91 dBm	-14.91 dB

Date: 30.NOV.2023 20:25:18

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	896.01949 MHz	-36.68 dBm	-23.68 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.30299 GHz	-37.37 dBm	-24.37 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.49574 GHz	-35.80 dBm	-22.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.62930 GHz	-31.75 dBm	-18.75 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.95177 GHz	-31.49 dBm	-18.49 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.18815 GHz	-27.95 dBm	-14.95 dB

Date: 30.NOV.2023 20:25:34

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	0.0021	0.0047	PASS
40	Normal Voltage	0.0595	0.0169	
30	Normal Voltage	0.0048	0.0557	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0249	0.0365	
0	Normal Voltage	0.0151	0.0624	
-10	Normal Voltage	0.0066	0.0485	
-20	Normal Voltage	0.0078	0.0157	
-30	Normal Voltage	0.0367	0.0449	
20	Maximum Voltage	0.0492	0.0526	
20	Normal Voltage	0.0124	0.0237	
20	Battery End Point	0.0368	0.0068	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0015	0.0006	PASS
40	Normal Voltage	0.0279	0.0042	
30	Normal Voltage	0.0057	0.0138	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0062	0.0246	
0	Normal Voltage	0.0138	0.0571	
-10	Normal Voltage	0.0247	0.0128	
-20	Normal Voltage	0.0365	0.0634	
-30	Normal Voltage	0.0012	0.0459	
20	Maximum Voltage	0.0036	0.0149	
20	Normal Voltage	0.0074	0.0087	
20	Battery End Point	0.0079	0.0352	

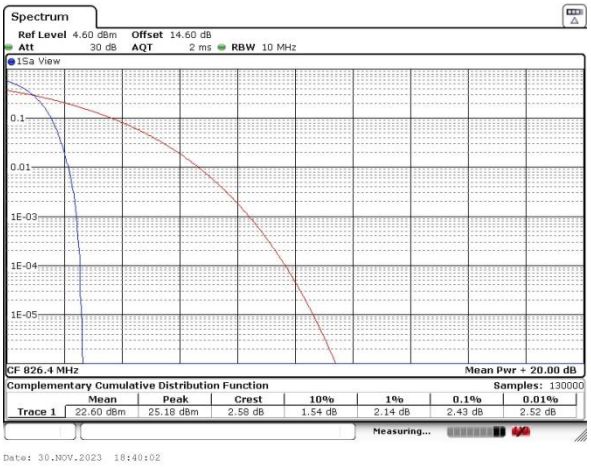
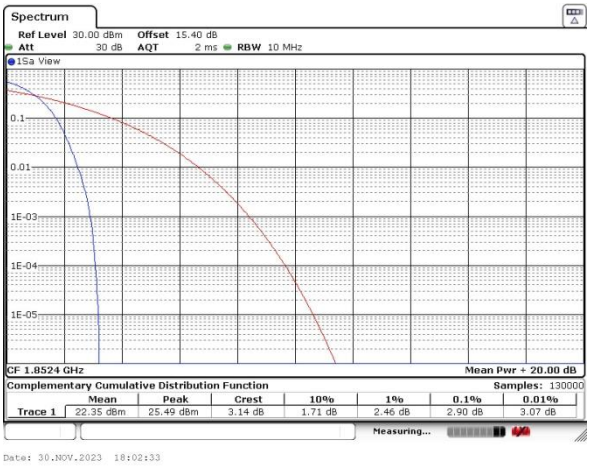
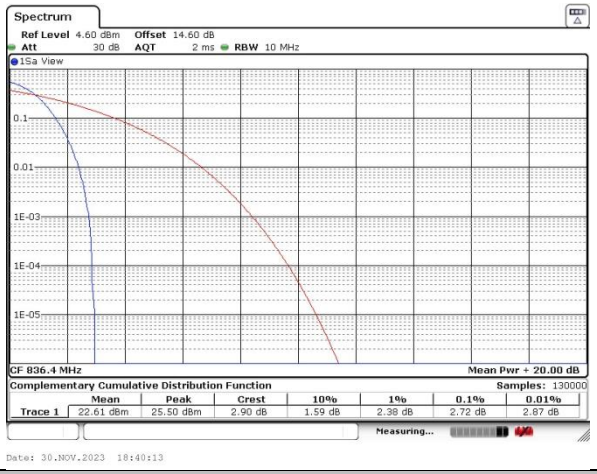
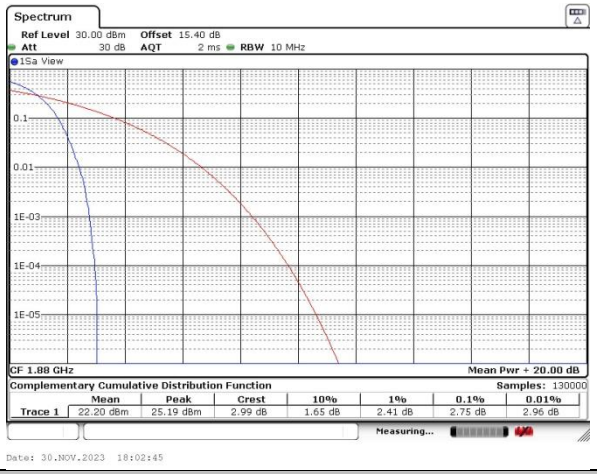
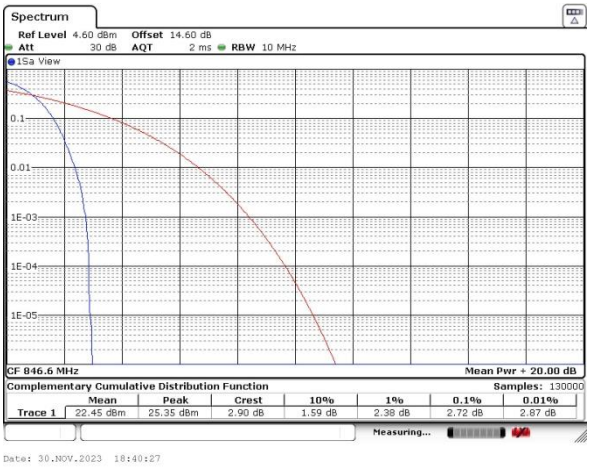
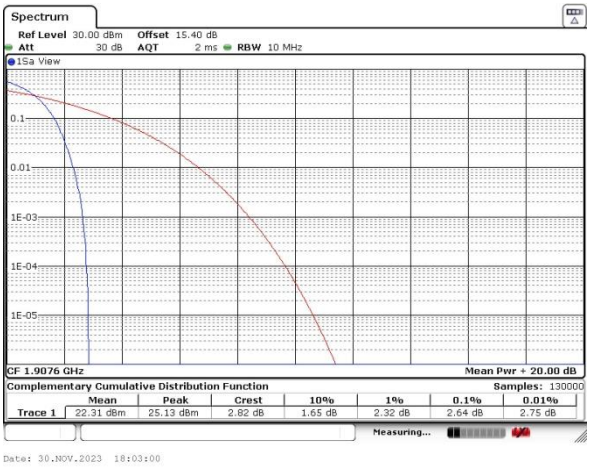
Note:

1. Normal Voltage = 3.87V ; 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

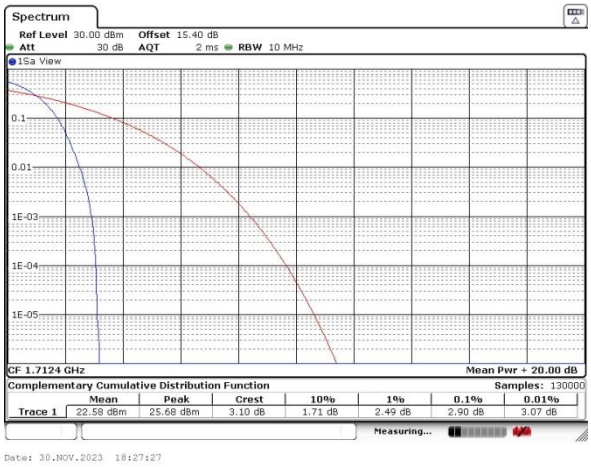
Peak-to-Average Ratio

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	2.43	2.90	2.90	PASS
Middle CH	2.72	2.75	2.84	
Highest CH	2.72	2.64	2.99	

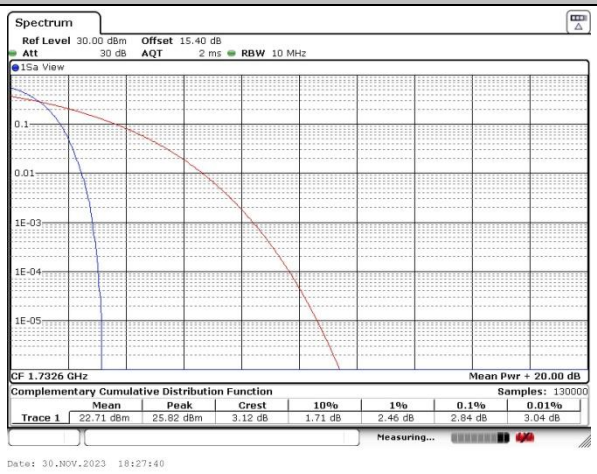
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

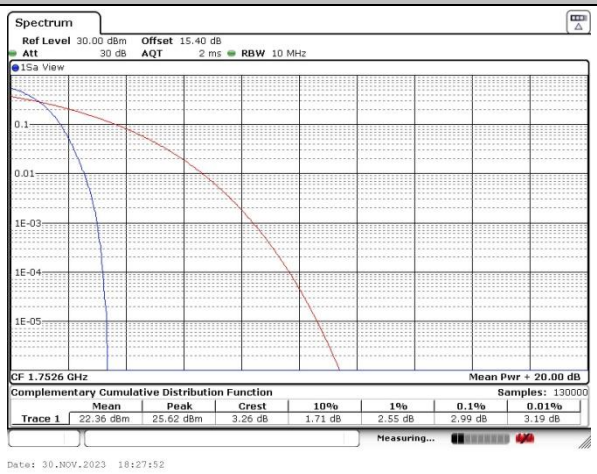
Lowest Channel



Middle Channel



Highest Channel



26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.755	4.735	4.735
Middle CH	4.735	4.735	4.725
Highest CH	4.735	4.735	4.735