



FCC RADIO TEST REPORT

FCC ID : A4RGB62Z
Equipment : Phone
Model Name : GB62Z
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Nov. 16, 2021 and testing was performed from Nov. 23, 2021 to Feb. 16, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG161608-03A	01	Initial issue of report	Jan. 26, 2022
FG161608-03A	02	1. Revise remark in section 1.5 2. Revise appendix A2 and A3 3. Revise list of measuring equipment 4. Revise test mode in section 2.1	Feb. 18, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (GSM850) (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (GSM1900) (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	
3.4	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 27.81 dB at 2509.000 MHz for Primary Antenna Under limit 24.74 dB at 3395.000 MHz for ASDIV Antenna

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: William Chen

Report Producer: Cindy Liu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	GB62Z
FCC ID	A4RGB62Z
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
1A261FQGR00045	Conducted Measurement ERP/EIRP
1B161FQGR00001	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8 MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	<Primary Antenna> GSM/GPRS/EDGE: 850: 32.40 dBm 1900: 29.68 dBm WCDMA: Band V: 24.30 dBm Band II: 24.20 dBm Band IV: 24.00 dBm <ASDIV Antenna> GSM/GPRS/EDGE: 850: 32.31 dBm 1900: 29.49 dBm WCDMA: Band V: 24.66 dBm Band II: 24.54 dBm Band IV: 24.30 dBm
Antenna Type	<Primary Antenna> <Ant. 0> : ILA Antenna type <Ant. 2> : ILA Antenna type <ASDIV Antenna> <Ant. 0> : ILA Antenna type <Ant. 1> : ILA Antenna type
Type of Modulation	GSM / GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink)

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
GSM	850	Ant 0	-2.9
GSM	1900	Ant 2	-0.9
WCDMA	B2	Ant 2	-0.9
WCDMA	B4	Ant 2	-0.3
WCDMA	B5	Ant 0	-2.9

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
GSM	850	Ant 1	-6.9
GSM	1900	Ant 0	-0.8
WCDMA	B2	Ant 0	-0.8
WCDMA	B4	Ant 0	-0.4
WCDMA	B5	Ant 1	-6.9

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Oscar Chi
Temperature	21-24°C
Relative Humidity	51-55%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang, and Chuan Chu
Temperature	22.2~26.8°C
Relative Humidity	56.6~68.2%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site 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.
3. The TAF code is not including all the FCC KDB listed without accreditation.



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.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find <Primary Antenna>: X Plane with Adapter for Cellular Band, Z Plane with Adapter for PCS Band and AWS Band; <ASDIV Antenna>: X Plane with Adapter for Cellular Band, Z Plane with Adapter for PCS Band, Y Plane with Adapter for AWS Band as worst plane

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

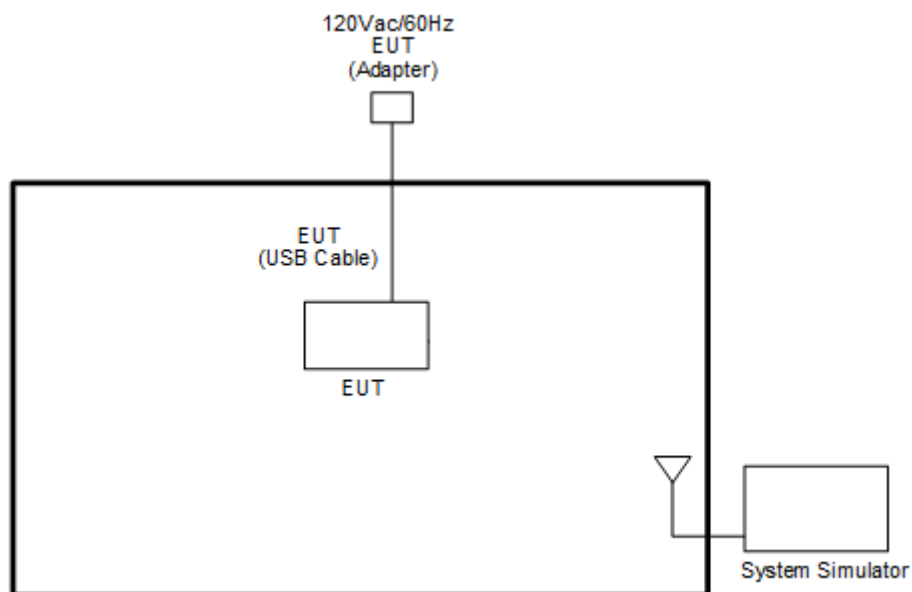
All modes, data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM850	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
GSM1900	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
WCDMA Band V	■ HSUPA Link	■ HSUPA Link
WCDMA Band II	■ HSUPA Link	■ HSUPA Link
WCDMA Band IV	■ HSUPA Link	■ HSUPA Link

Remark: All the radiated test cases were performed with Adapter 1 and USB Cable 2.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand 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	Anritsu	MT8821C	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 4.2 dB and a 10 dB attenuator.

Example:

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

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

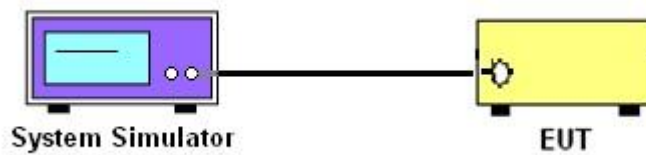
3 Conducted Test Result

3.1 Measuring Instruments

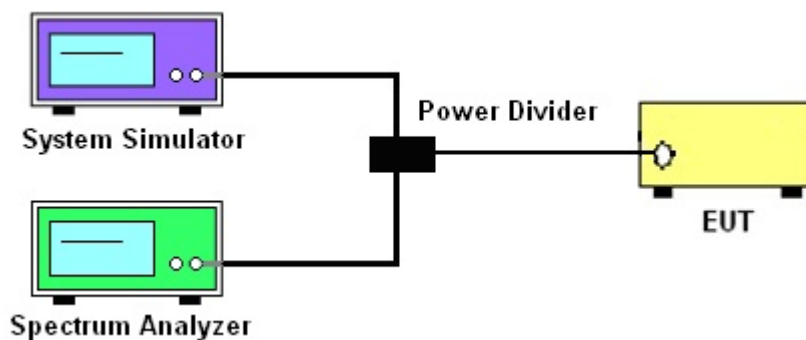
See list of measuring instruments of this test report.

3.1.1 Test Setup

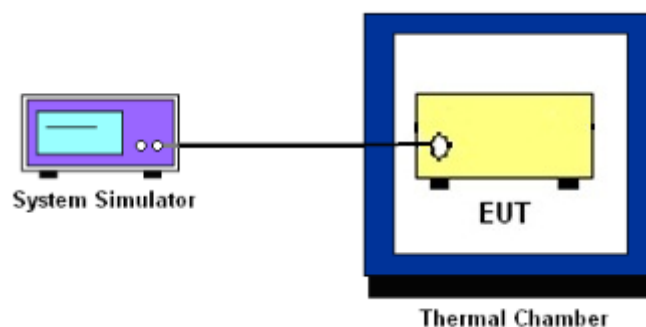
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 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

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.
5. Record the maximum PAPR level associated with a probability of 0.1%.

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The band edges of low and high channels for the highest RF powers were measured.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.6 Conducted Spurious Emission

3.6.1 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.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
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)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

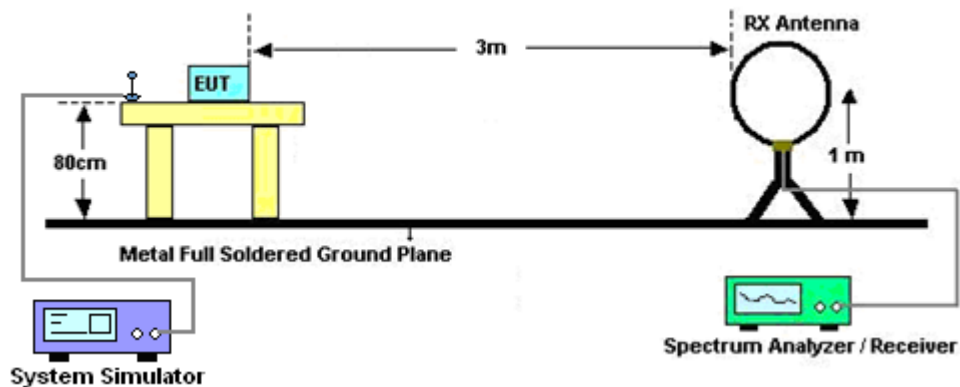
4 Radiated Test Items

4.1 Measuring Instruments

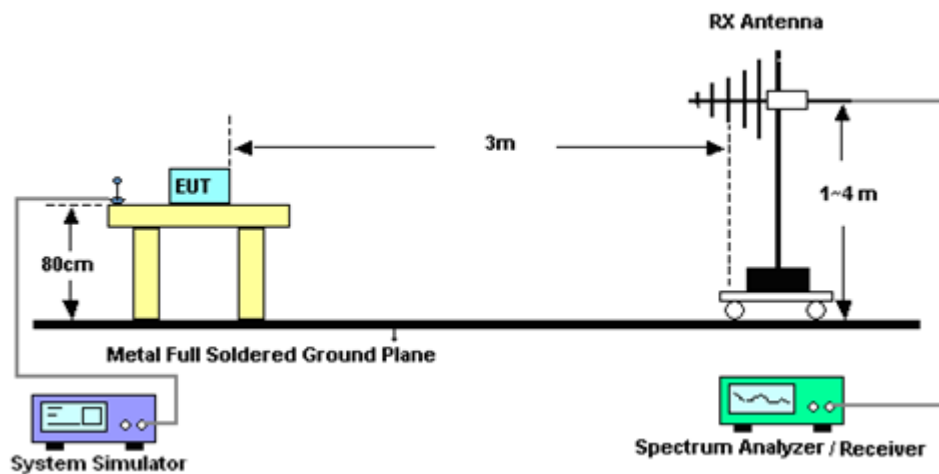
See list of measuring instruments of this test report.

4.2 Test Setup

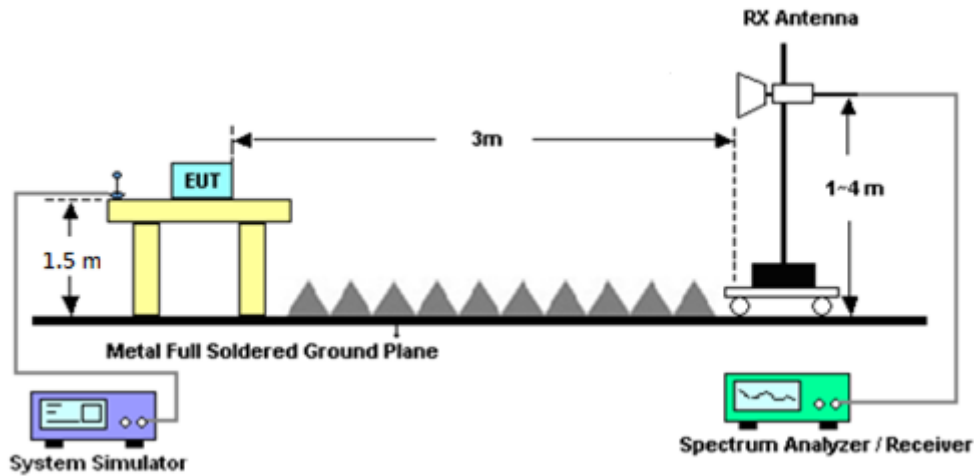
For radiated test below 30MHz



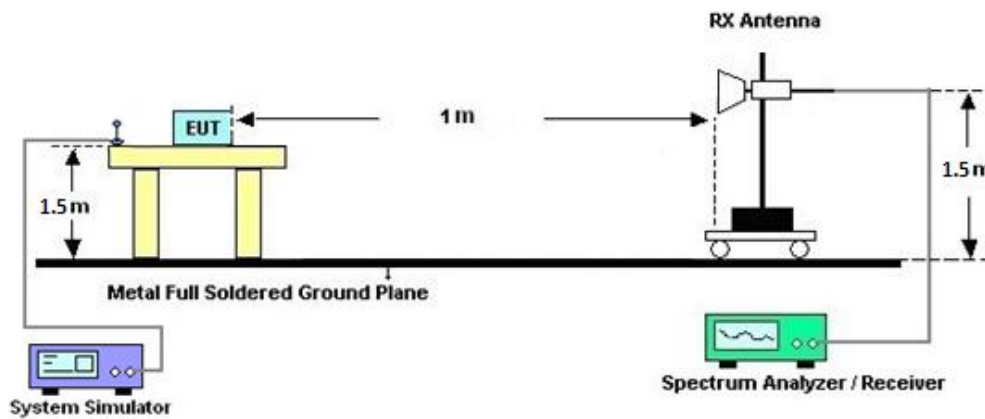
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

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



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Nov. 23, 2021~ Dec. 13, 2021	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Nov. 23, 2021~ Dec. 13, 2021	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Oct. 25, 2021	Nov. 23, 2021~ Dec. 13, 2021	Oct. 24, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Nov. 23, 2021~ Dec. 13, 2021	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	BBHA91709 80	18GHz~40GHz	Jan. 11, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jan. 10, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91705 76	18GHz~40GHz	May 21, 2021	Nov. 23, 2021~ Dec. 13, 2021	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Nov. 23, 2021~ Dec. 13, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Nov. 23, 2021~ Dec. 13, 2021	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3K	1710001800 054002	1GHz~18GHz	Jun. 16, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jun. 15, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jun. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Nov. 23, 2021~ Dec. 09, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Dec. 10, 2021~ Dec. 13, 2021	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Nov. 23, 2021~ Dec. 13, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Nov. 23, 2021~ Dec. 13, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Nov. 23, 2021~ Dec. 13, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0SS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Nov. 23, 2021~ Dec. 13, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Nov. 23, 2021~ Dec. 13, 2021	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Nov. 23, 2021~ Dec. 13, 2021	Mar. 16, 2022	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEP	DTM-303B	TP140349	N/A	Sep. 30, 2021	Nov. 23, 2021~ Dec. 13, 2021	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 23, 2021~ Dec. 13, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 23, 2021~ Dec. 13, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 23, 2021~ Dec. 13, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Nov. 23, 2021~ Dec. 13, 2021	N/A	Radiation (03CH12-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Nov. 29, 2021~ Feb. 16, 2022	Feb. 28, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2021	Nov. 29, 2021~ Feb. 16, 2022	Sep. 29, 2022	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20℃~85℃	Jan. 18, 2021	Nov. 29, 2021	Jan. 17, 2022	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20℃~85℃	Dec. 09, 2021	Jan. 03, 2022~ Feb. 16, 2022	Dec. 08, 2022	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2021	Nov. 29, 2021~ Feb. 16, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 13, 2021	Nov. 29, 2021~ Feb. 16, 2022	Jul. 12, 2022	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26. 5S-20	#A	N/A	Nov. 01, 2021	Nov. 29, 2021~ Feb. 16, 2022	Oct. 31, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.10 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.39 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.34 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) & ERP / EIRP

<Primary Antenna>

GSM850 Maximum Average Power [dBm] (GT - LC = -2.9 dB)					
Channel	128	189	251	ERP (dBm)	ERP (W)
Frequency	824.2	836.4	848.8		
GSM	32.22	32.28	32.14	27.35	0.5433
GPRS class 8	32.33	32.40	32.27		
GPRS class 10	31.34	31.42	31.35		
GPRS class 11	30.34	30.11	30.03		
GPRS class 12	29.42	29.35	29.24		
EGPRS class 8	27.28	27.21	27.12	22.23	0.1671
EGPRS class 10	26.80	26.76	26.65		
EGPRS class 11	26.88	26.87	26.71		
EGPRS class 12	24.56	24.95	24.78		
Limit	ERP < 7W			Result	Pass

GSM1900 Maximum Average Power [dBm] (GT - LC = -0.9 dB)					
Channel	512	661	810	EIRP (dBm)	EIRP (W)
Frequency	1850.2	1880	1909.8		
GSM	29.55	29.58	29.45	28.78	0.7551
GPRS class 8	29.64	29.68	29.57		
GPRS class 10	28.23	28.29	28.21		
GPRS class 11	27.48	27.37	27.34		
GPRS class 12	26.56	26.55	26.51		
EGPRS class 8	25.09	24.97	24.83	24.19	0.2624
EGPRS class 10	24.14	23.91	23.62		
EGPRS class 11	23.95	23.82	23.46		
EGPRS class 12	22.70	22.41	22.38		
Limit	EIRP < 2W			Result	Pass



WCDMA Band V Maximum Average Power [dBm] (GT - LC = -2.9 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	24.18	24.14	24.18		
HSDPA Subtest-1	24.28	24.28	24.10		
HSDPA Subtest-2	24.29	24.27	24.12		
HSDPA Subtest-3	23.79	23.80	23.70		
HSDPA Subtest-4	23.48	23.31	23.26		
HSUPA Subtest-1	23.59	23.53	23.46		
HSUPA Subtest-2	22.15	22.11	22.04		
HSUPA Subtest-3	23.01	22.98	22.91		
HSUPA Subtest-4	21.99	21.87	21.86		
HSUPA Subtest-5	24.20	24.30	24.30		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -0.9 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.99	23.89	23.82		
HSDPA Subtest-1	24.19	23.90	23.88		
HSDPA Subtest-2	24.07	23.93	23.85		
HSDPA Subtest-3	23.71	23.66	23.60		
HSDPA Subtest-4	23.20	23.12	23.09		
HSUPA Subtest-1	23.17	22.93	22.89		
HSUPA Subtest-2	19.83	19.67	19.59		
HSUPA Subtest-3	23.05	23.10	22.89		
HSUPA Subtest-4	19.75	19.76	19.61		
HSUPA Subtest-5	24.20	24.10	24.00		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = -0.3 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.81	23.76	23.73		
HSDPA Subtest-1	23.74	23.70	23.66		
HSDPA Subtest-2	22.48	23.71	23.71		
HSDPA Subtest-3	23.41	23.38	23.39		
HSDPA Subtest-4	22.43	23.41	23.39		
HSUPA Subtest-1	22.82	22.66	22.67		
HSUPA Subtest-2	19.54	19.47	19.49		
HSUPA Subtest-3	22.92	22.65	22.76		
HSUPA Subtest-4	19.53	19.48	19.48		
HSUPA Subtest-5	24.00	23.90	23.80		
Limit	EIRP < 1W			Result	Pass


<ASDIV Antenna>

GSM850 Maximum Average Power [dBm] (GT - LC = -6.9 dB)					
Channel	128	189	251	ERP (dBm)	ERP (W)
Frequency	824.2	836.4	848.8		
GSM	32.11	32.25	32.05	23.26	0.2118
GPRS class 8	32.21	32.31	32.15		
GPRS class 10	31.06	31.17	31.12		
GPRS class 11	30.11	29.91	29.86		
GPRS class 12	29.09	29.07	28.80		
EGPRS class 8	26.94	26.95	26.65	17.90	0.0617
EGPRS class 10	26.58	26.54	26.49		
EGPRS class 11	26.55	26.45	26.64		
EGPRS class 12	24.34	24.44	24.44		
Limit	ERP < 7W			Result	Pass

GSM1900 Maximum Average Power [dBm] (GT - LC = -0.8 dB)					
Channel	512	661	810	EIRP (dBm)	EIRP (W)
Frequency	1850.2	1880	1909.8		
GSM	29.33	29.32	29.25	28.69	0.7396
GPRS class 8	29.49	29.49	29.37		
GPRS class 10	28.14	28.14	27.99		
GPRS class 11	27.48	27.29	27.14		
GPRS class 12	26.62	26.41	26.26		
EGPRS class 8	25.22	24.84	24.84	24.42	0.2767
EGPRS class 10	23.84	23.86	23.51		
EGPRS class 11	23.98	23.66	23.44		
EGPRS class 12	22.91	22.72	22.37		
Limit	EIRP < 2W			Result	Pass



WCDMA Band V Maximum Average Power [dBm] (GT - LC = -6.9 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	24.17	24.26	24.21		
HSDPA Subtest-1	24.63	24.40	24.17		
HSDPA Subtest-2	24.66	24.35	24.17		
HSDPA Subtest-3	24.20	23.94	23.71		
HSDPA Subtest-4	23.56	23.47	23.31		
HSUPA Subtest-1	23.65	23.63	23.44		
HSUPA Subtest-2	22.20	22.23	22.06		
HSUPA Subtest-3	23.07	23.07	22.94		
HSUPA Subtest-4	22.00	22.05	21.89		
HSUPA Subtest-5	24.55	24.50	24.60		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -0.8 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	24.47	24.20	24.19		
HSDPA Subtest-1	24.51	24.30	24.18		
HSDPA Subtest-2	24.54	24.29	24.18		
HSDPA Subtest-3	24.19	24.01	23.91		
HSDPA Subtest-4	23.72	23.56	23.41		
HSUPA Subtest-1	23.54	23.47	23.21		
HSUPA Subtest-2	22.69	21.02	20.97		
HSUPA Subtest-3	23.53	23.33	23.24		
HSUPA Subtest-4	22.69	22.61	22.59		
HSUPA Subtest-5	24.50	24.40	24.26		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = -0.4 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	24.19	24.03	23.98		
HSDPA Subtest-1	24.30	24.09	23.97		
HSDPA Subtest-2	23.01	24.09	23.96		
HSDPA Subtest-3	23.82	23.75	23.69		
HSDPA Subtest-4	22.87	23.78	23.64		
HSUPA Subtest-1	23.27	23.15	23.19		
HSUPA Subtest-2	20.99	20.93	22.69		
HSUPA Subtest-3	23.30	23.17	23.01		
HSUPA Subtest-4	20.83	22.65	22.68		
HSUPA Subtest-5	22.10	24.30	24.20		
Limit	EIRP < 1W			Result	Pass



A2. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.72	2.96	PASS
Middle CH	0.72	3.16	
Highest CH	0.72	3.00	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.72	3.28	PASS
Middle CH	0.64	3.24	
Highest CH	1.24	3.20	



GSM850 (GPRS class 8)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	



GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
<			

**26dB Bandwidth**

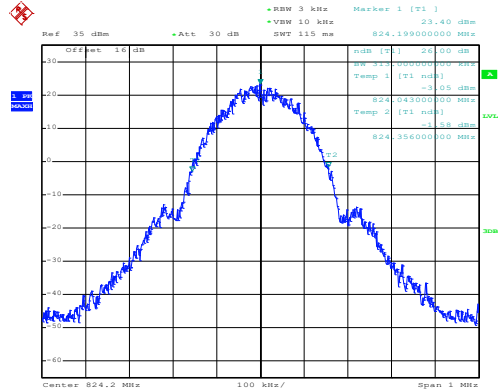
Mode	GSM850: 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.313	0.312
Middle CH	0.308	0.314
Highest CH	0.315	0.313

Mode	GSM1900: 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.296	0.308
Middle CH	0.307	0.303
Highest CH	0.294	0.314



GSM850 (GPRS class 8)

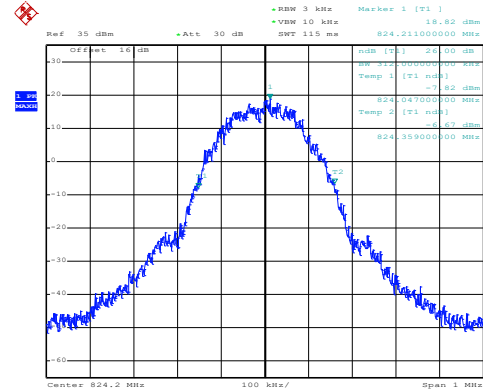
Lowest Channel



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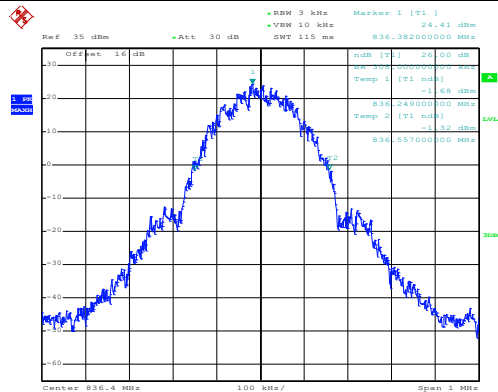
GSM850 (EDGE class 8)

Lowest Channel



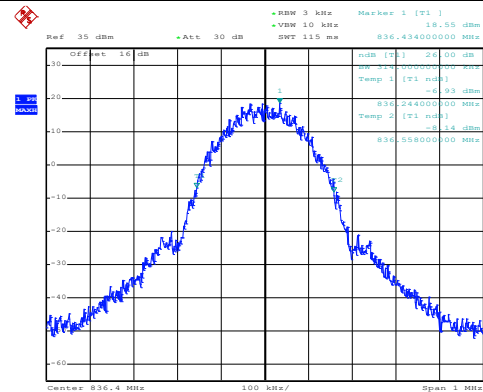
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Middle Channel



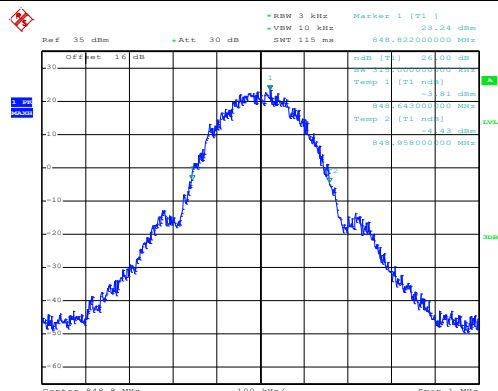
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Middle Channel



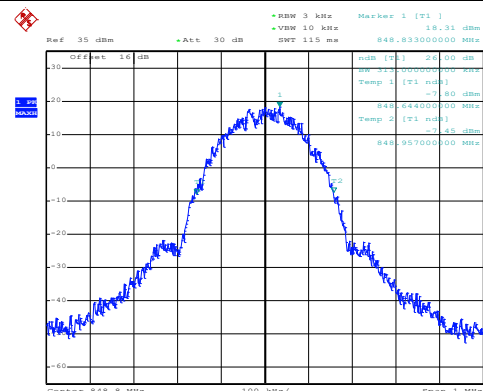
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Highest Channel

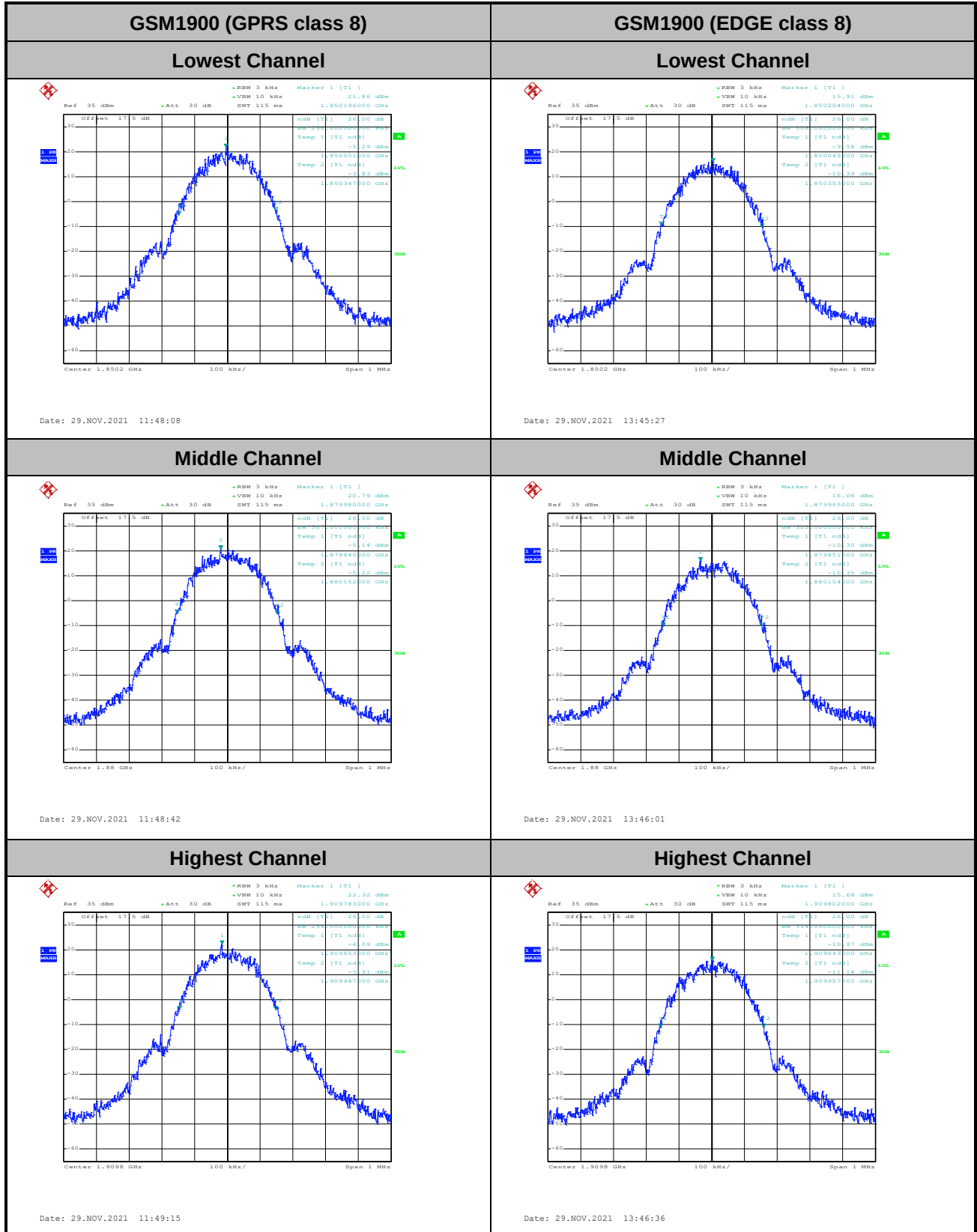


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Highest Channel



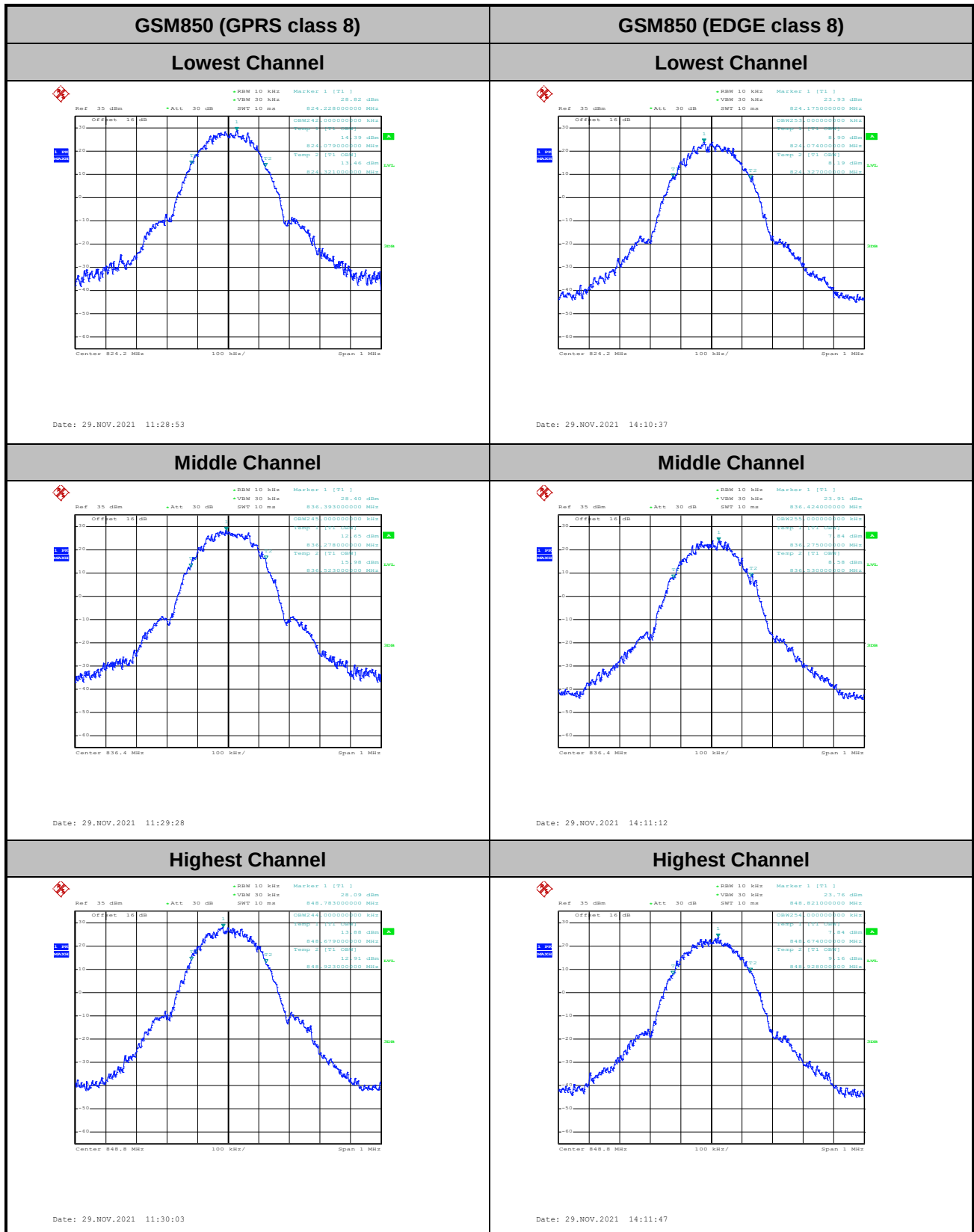
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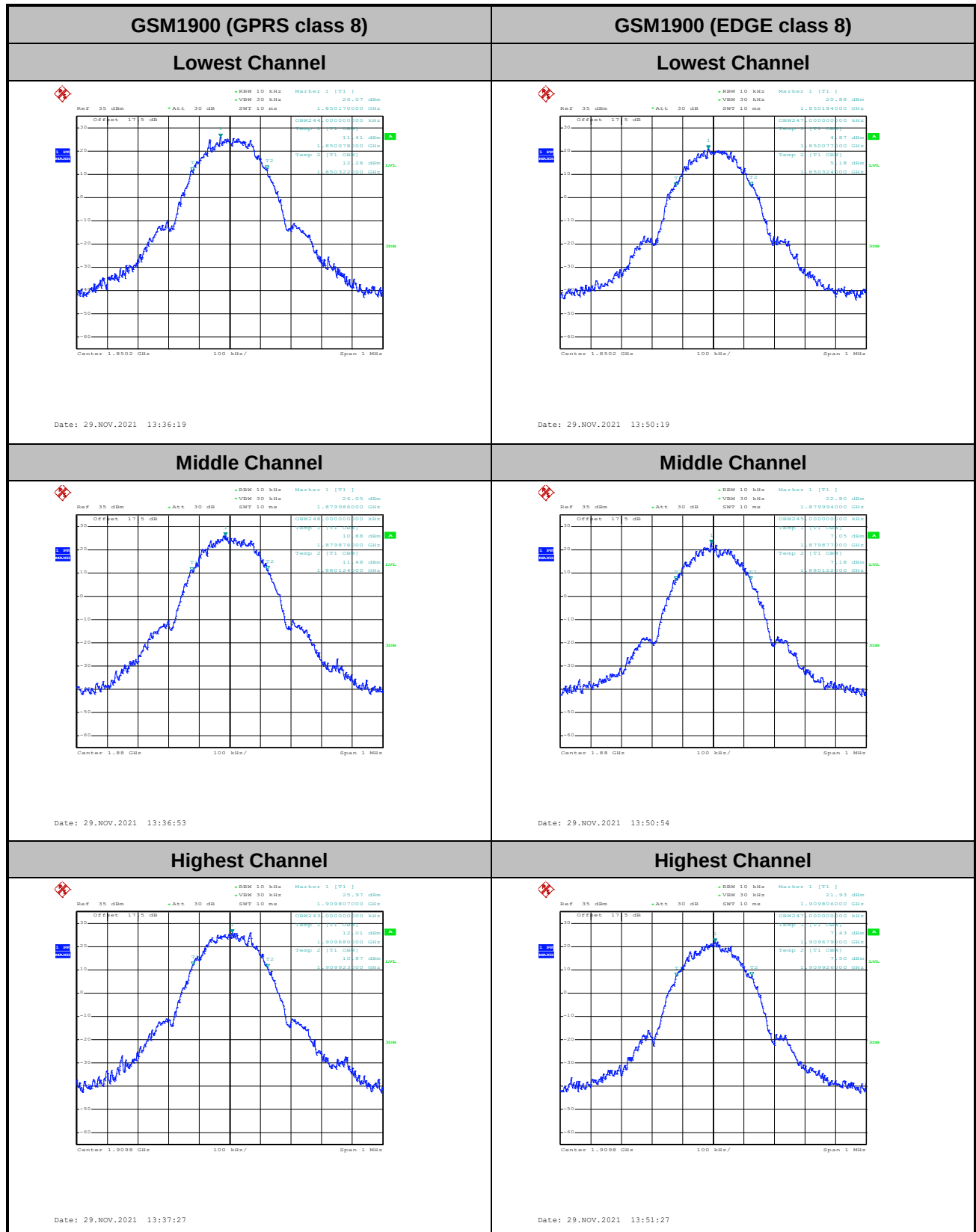


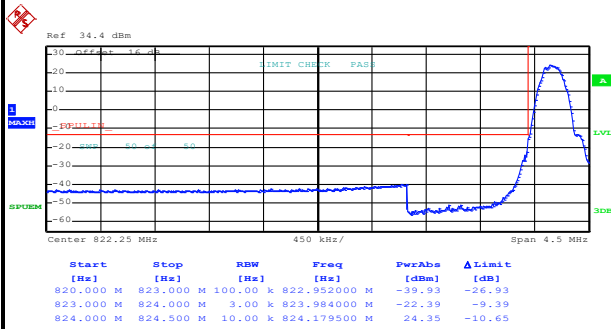
**Occupied Bandwidth**

Mode	GSM850: 99% OBW (MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.242	0.253
Middle CH	0.245	0.255
Highest CH	0.244	0.254

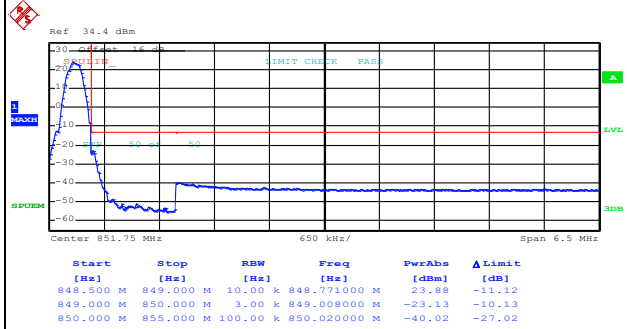
Mode	GSM1900: 99% OBW (MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.247
Middle CH	0.248	0.245
Highest CH	0.243	0.247





**Conducted Band Edge****GSM850 (GPRS class 8)****Lowest Band Edge**

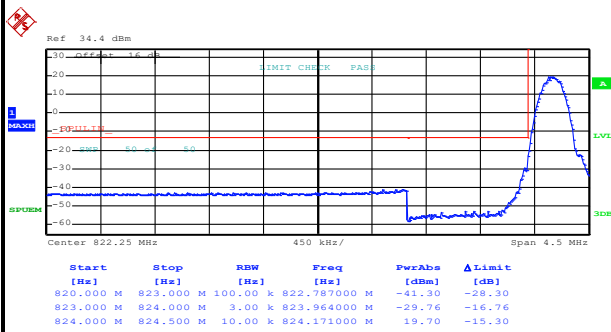
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Highest Band Edge

Date: 29.NOV.2021 11:33:55

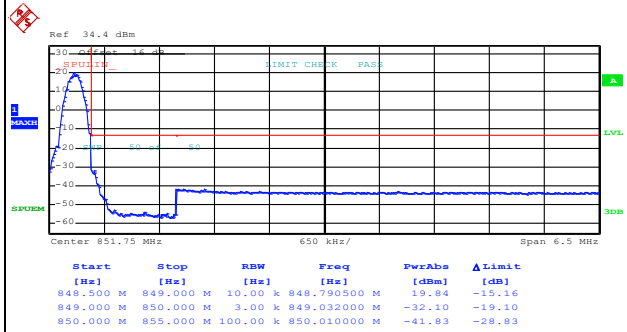
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 29.NOV.2021 14:13:23

Highest Band Edge

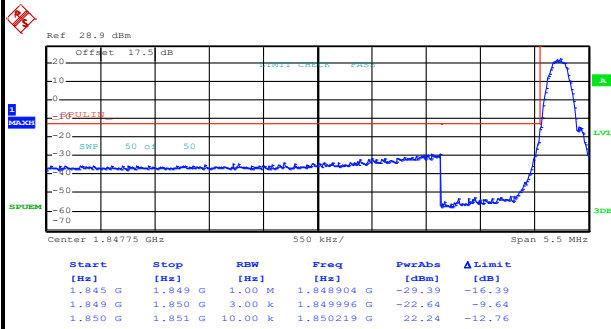


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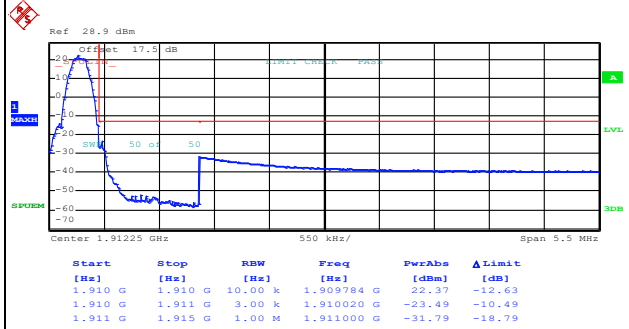
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 29.NOV.2021 13:39:03

Highest Band Edge

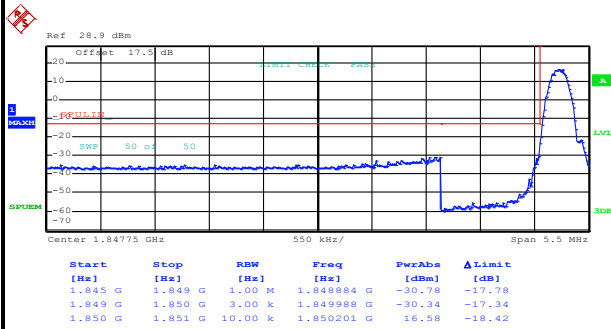


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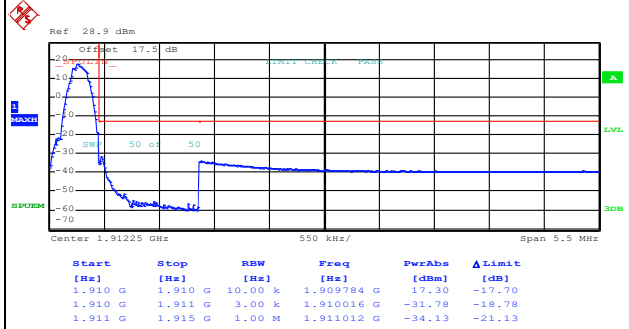
GSM1900 (EDGE class 8)

Lowest Band Edge



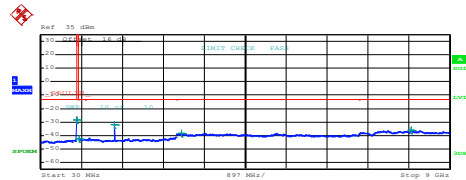
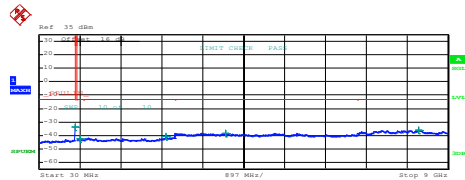
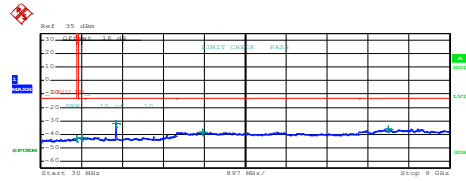
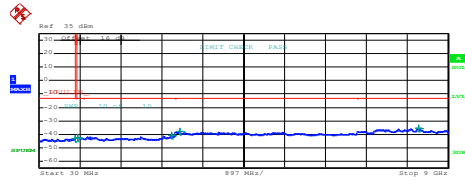
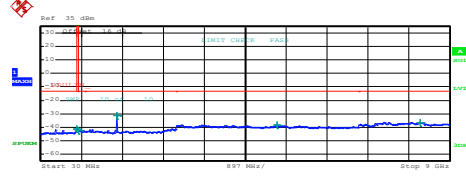
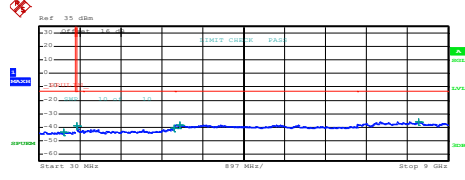
Date: 29.NOV.2021 13:53:10

Highest Band Edge



Date: 29.NOV.2021 13:54:43

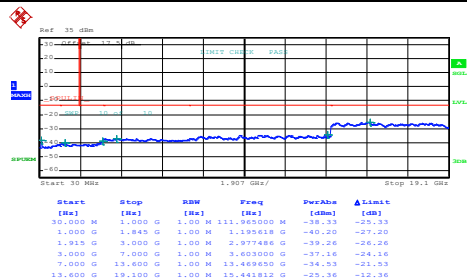
**Conducted Spurious Emission**

GSM850 (GPRS class 8)		GSM850 (EDGE class 8)																																																																																			
Lowest Channel		Lowest Channel																																																																																			
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Start	Stop	RBW	Freq	PerAbn	ΔLimit																																																																																
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Start	Stop	RBW	Freq	PerAbn	ΔLimit																																																																																
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7,000 G	9,000 G	1,000 M	8,346500 G	-35.85	-22.85																																																																																



GSM1900 (GPRS class 8)

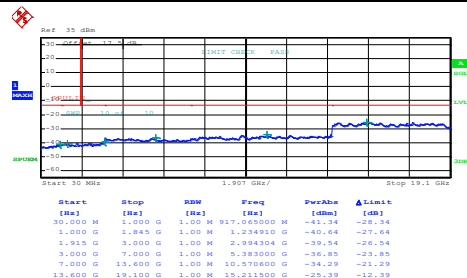
Lowest Channel



Date: 29.NOV.2021 11:52:20

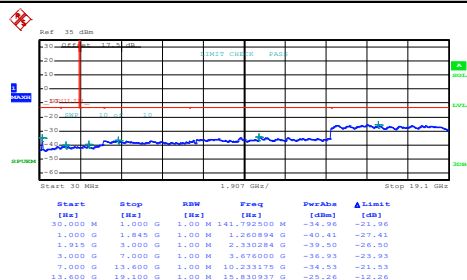
GSM1900 (EDGE class 8)

Lowest Channel



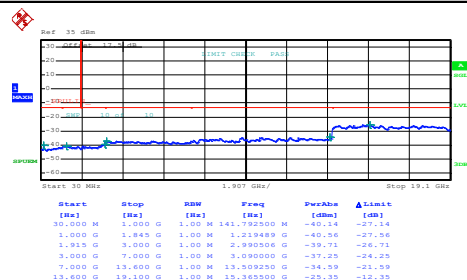
Date: 29.NOV.2021 13:47:44

Middle Channel



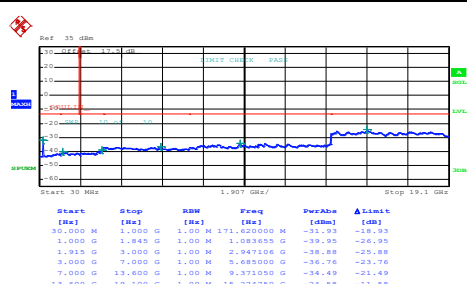
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Middle Channel



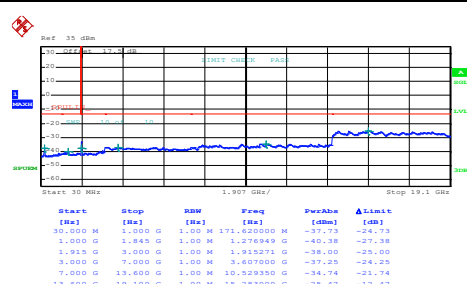
Date: 29.NOV.2021 13:48:35

Highest Channel



Date: 29.NOV.2021 11:54:10

Highest Channel



Date: 29.NOV.2021 13:49:35

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0096	0.0060	PASS
40	Normal Voltage	0.0048	0.0048	
30	Normal Voltage	0.0024	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0000	0.0024	
0	Normal Voltage	0.0012	0.0012	
-10	Normal Voltage	0.0048	0.0012	
-20	Normal Voltage	0.0072	0.0060	
-30	Normal Voltage	0.0072	0.0072	
20	Maximum Voltage	0.0024	0.0012	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	0.0060	



Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0080	PASS
40	Normal Voltage	0.0043	0.0048	
30	Normal Voltage	0.0027	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0011	
0	Normal Voltage	0.0011	0.0005	
-10	Normal Voltage	0.0016	0.0000	
-20	Normal Voltage	0.0032	0.0021	
-30	Normal Voltage	0.0032	0.0043	
20	Maximum Voltage	0.0011	0.0011	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0016	0.0021	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.40 V.
2. The frequency fundamental emissions stay within the operation band.

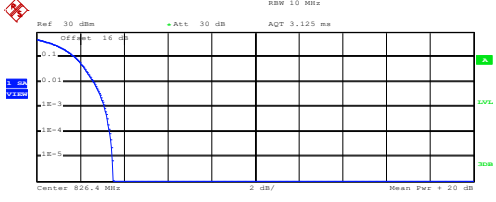
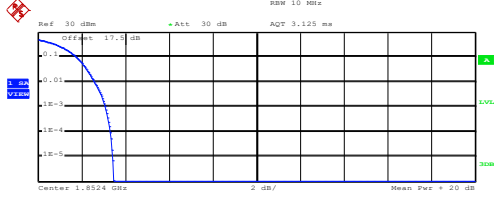
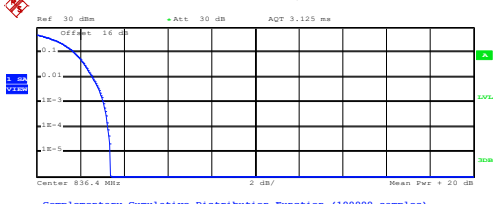
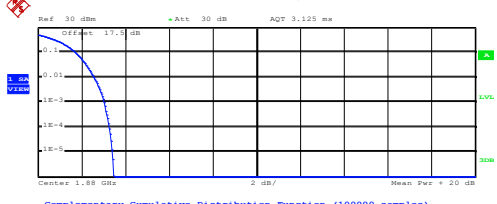
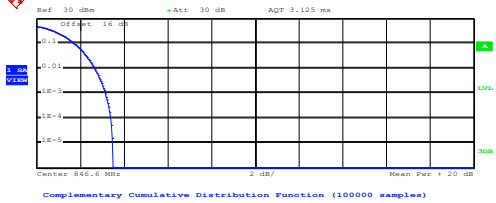
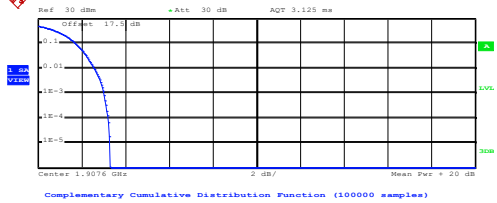


A3. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	HSUPA	HSUPA	HSUPA	Result
Lowest CH	3.12	3.08	3.04	PASS
Middle CH	3.08	3.04	3.04	
Highest CH	3.16	3.04	3.08	

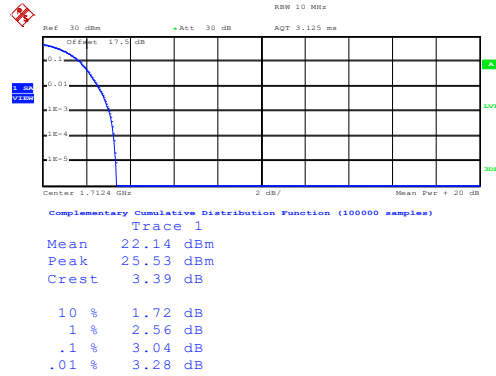


WCDMA Band V (HSUPA)	WCDMA Band II (HSUPA)
Lowest Channel	Lowest Channel
 Center 826.4 MHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 22.18 dBm Peak 25.67 dBm Crest 3.49 dB 10 % 1.76 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.36 dB Date: 16.FEB.2022 15:17:30	 Center 1.8524 GHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 21.85 dBm Peak 25.31 dBm Crest 3.46 dB 10 % 1.76 dB 1 % 2.60 dB .1 % 3.08 dB .01 % 3.32 dB Date: 16.FEB.2022 14:45:03
Middle Channel	Middle Channel
 Center 836.4 MHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 21.99 dBm Peak 25.38 dBm Crest 3.39 dB 10 % 1.72 dB 1 % 2.56 dB .1 % 3.08 dB .01 % 3.28 dB Date: 16.FEB.2022 15:17:48	 Center 1.88 GHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 21.84 dBm Peak 25.31 dBm Crest 3.47 dB 10 % 1.72 dB 1 % 2.56 dB .1 % 3.04 dB .01 % 3.28 dB Date: 16.FEB.2022 14:45:19
Highest Channel	Highest Channel
 Center 846.4 MHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 21.82 dBm Peak 25.31 dBm Crest 3.49 dB 10 % 1.76 dB 1 % 2.68 dB .1 % 3.16 dB .01 % 3.40 dB Date: 16.FEB.2022 15:18:04	 Center 1.9078 GHz Trace 1 Complementary Cumulative Distribution Function (100000 samples) Mean 21.60 dBm Peak 24.89 dBm Crest 3.29 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.04 dB .01 % 3.24 dB Date: 16.FEB.2022 14:45:38



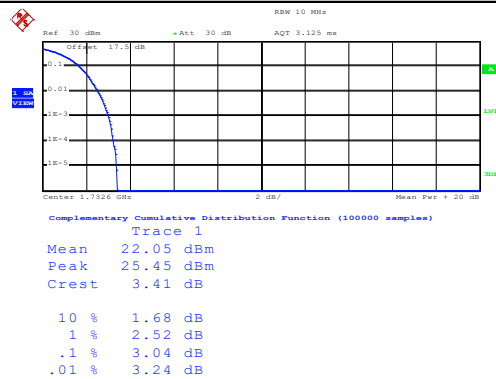
WCDMA Band IV (HSUPA)

Lowest Channel



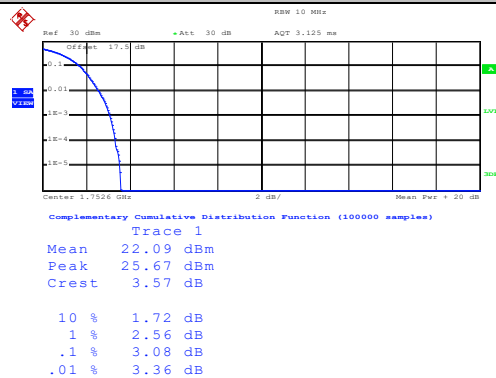
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Middle Channel



Date: 16.FEB.2022 15:01:06

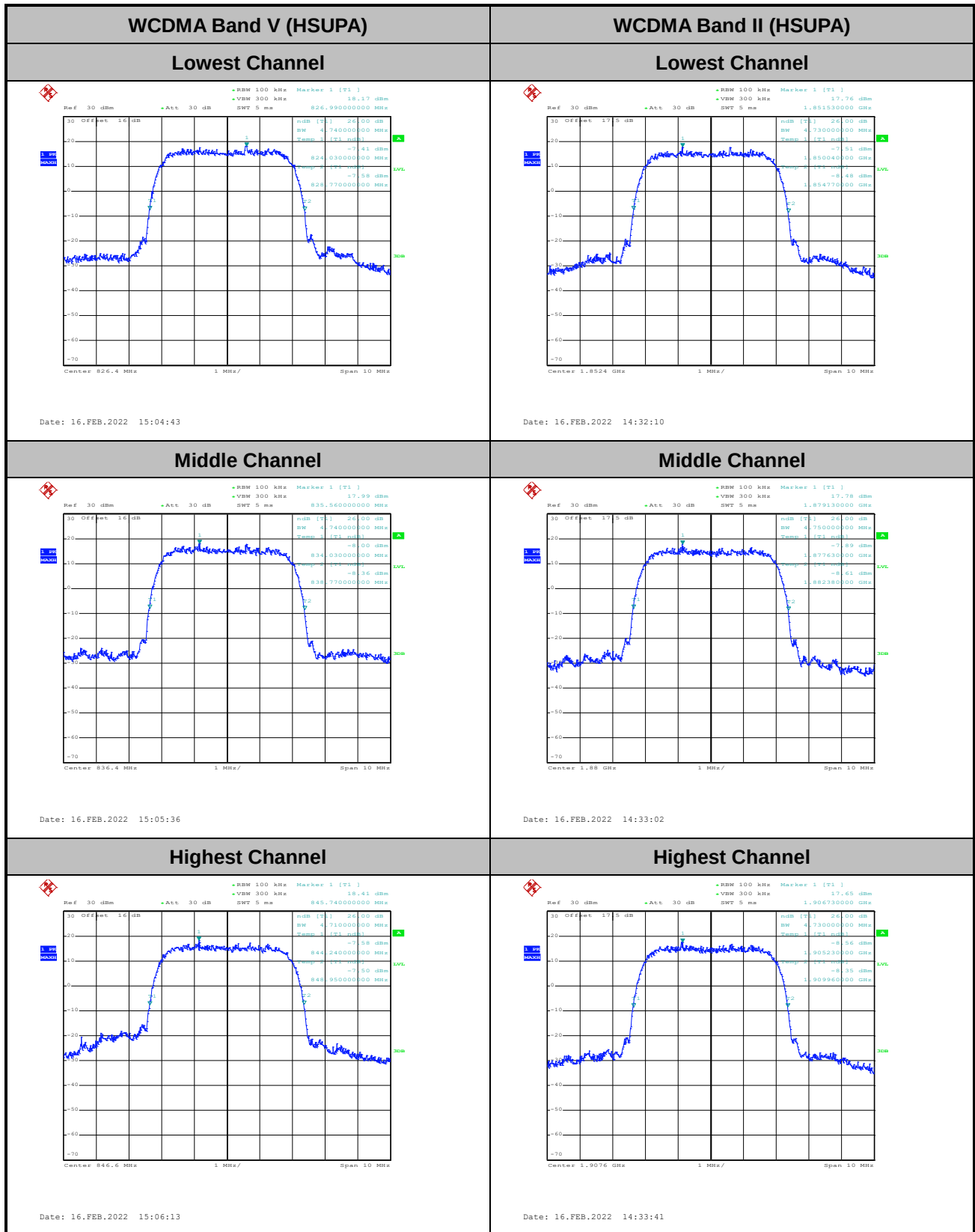
Highest Channel



Date: 16.FEB.2022 15:01:22

**26dB Bandwidth**

Mode	WCDMA Band V: 26dB BW(MHz)	WCDMA Band II: 26dB BW(MHz)	WCDMA Band IV: 26dB BW(MHz)
Mod.	HSUPA	HSUPA	HSUPA
Lowest CH	4.74	4.73	4.75
Middle CH	4.74	4.75	4.74
Highest CH	4.71	4.73	4.75

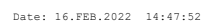




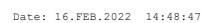
Lowest Channel



Middle Channel

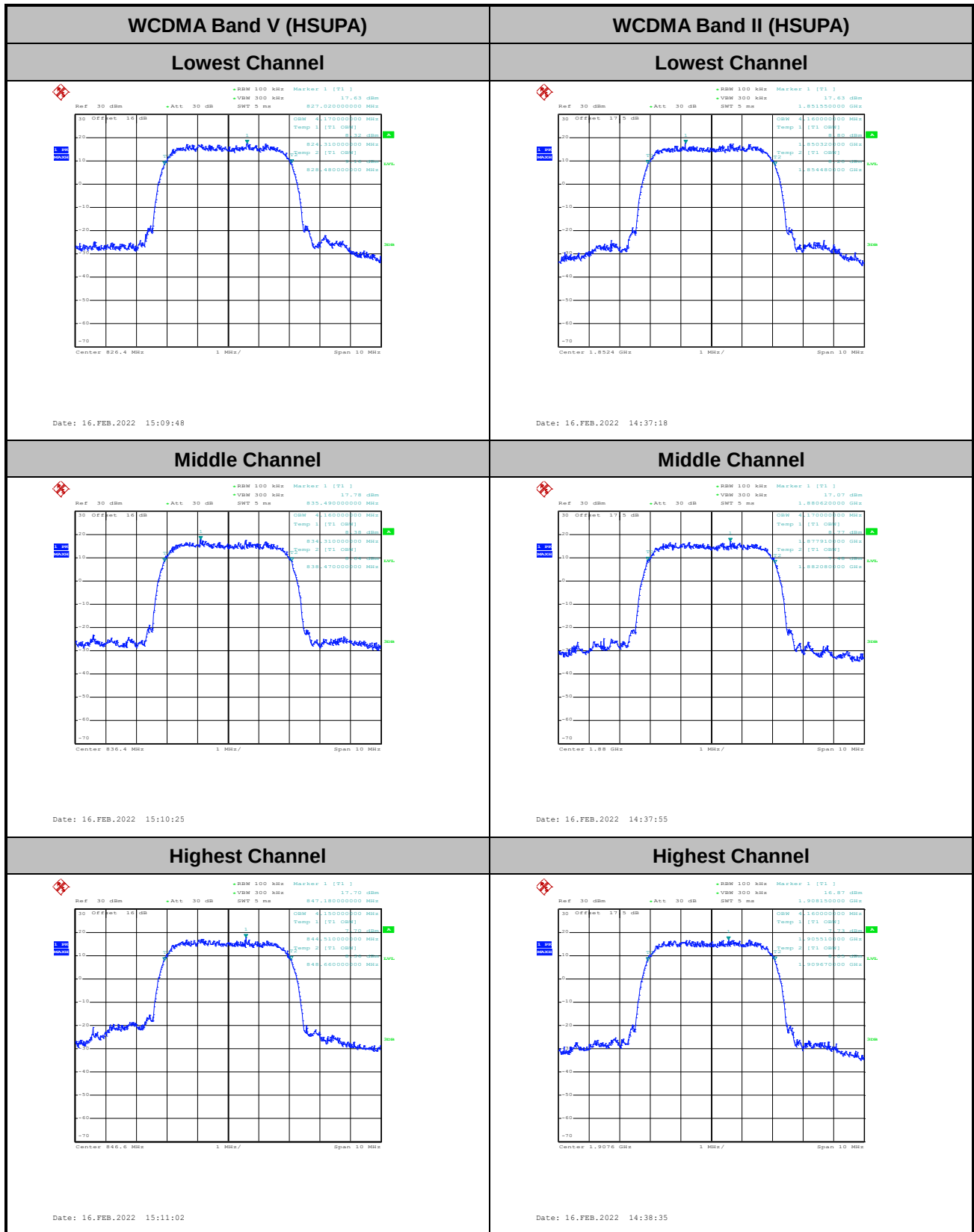


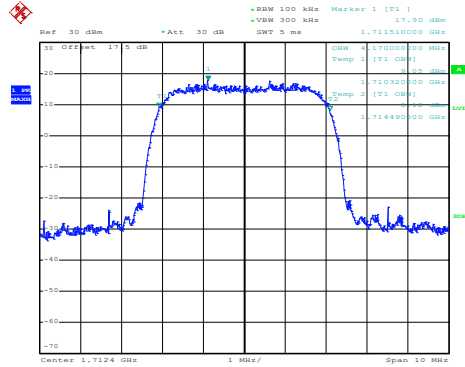
Highest Channel



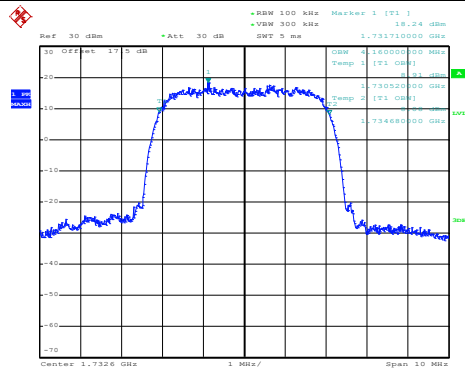
**Occupied Bandwidth**

Mode	WCDMA Band V: 99% OBW(MHz)	WCDMA Band II: 99% OBW(MHz)	WCDMA Band IV: 99% OBW(MHz)
Mod.	HSUPA	HSUPA	HSUPA
Lowest CH	4.17	4.16	4.17
Middle CH	4.16	4.17	4.16
Highest CH	4.15	4.16	4.18

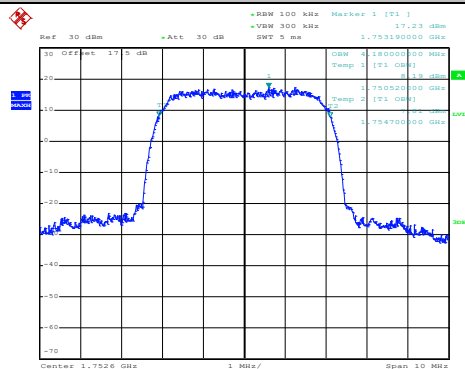


WCDMA Band IV (HSUPA)
Lowest Channel


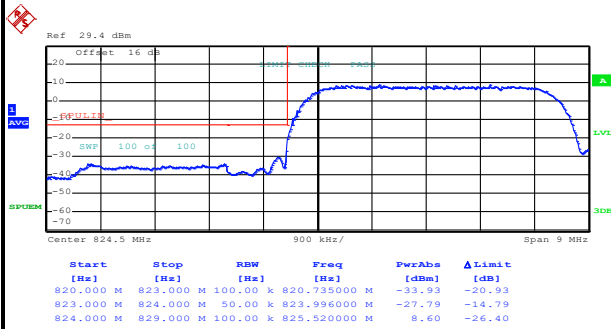
Date: 16.FEB.2022 14:53:14

Middle Channel


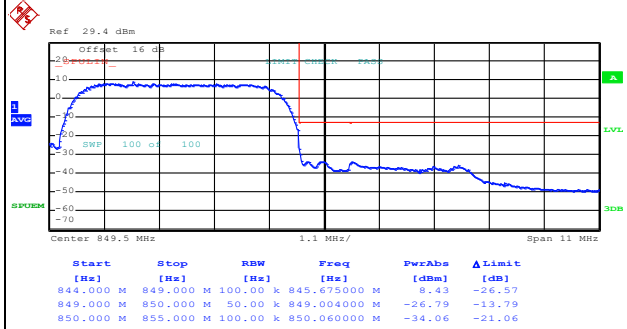
Date: 16.FEB.2022 14:53:51

Highest Channel


Date: 16.FEB.2022 14:54:28

**Conducted Band Edge****WCDMA Band V (HSUPA)****Lowest Band Edge**

Date: 16.FEB.2022 15:14:03

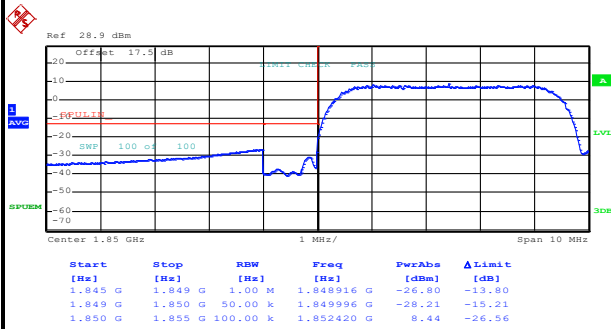
Highest Band Edge

Date: 16.FEB.2022 15:16:55



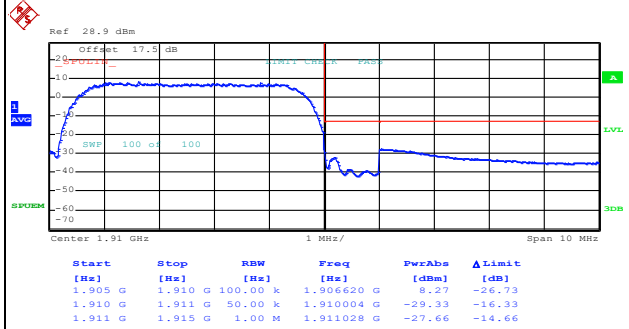
WCDMA Band II (HSUPA)

Lowest Band Edge



Date: 16.FEB.2022 14:41:33

Highest Band Edge

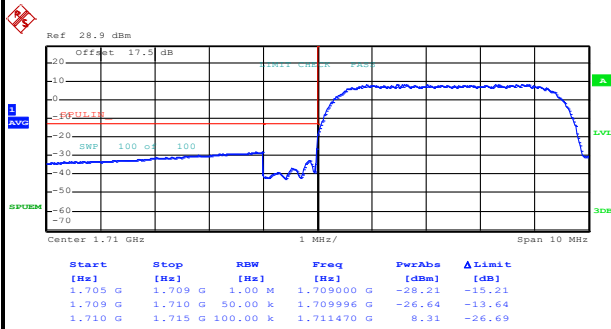


Date: 16.FEB.2022 14:44:35



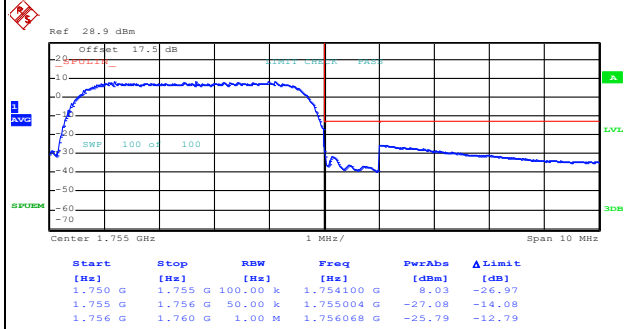
WCDMA Band IV (HSUPA)

Lowest Band Edge



Date: 16.FEB.2022 14:57:34

Highest Band Edge



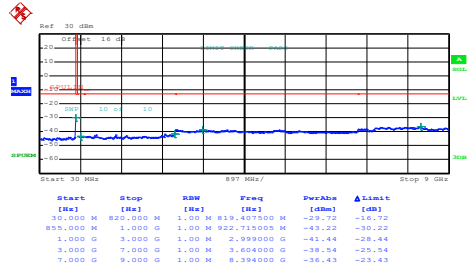
Date: 16.FEB.2022 15:00:26



Conducted Spurious Emission

WCDMA Band V (HSUPA)

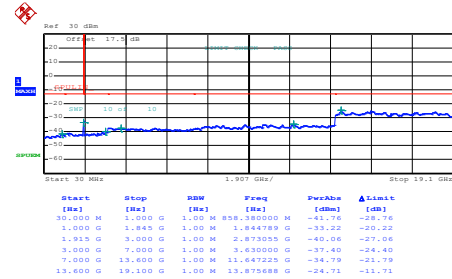
Lowest Channel



Date: 16.FEB.2022 15:07:15

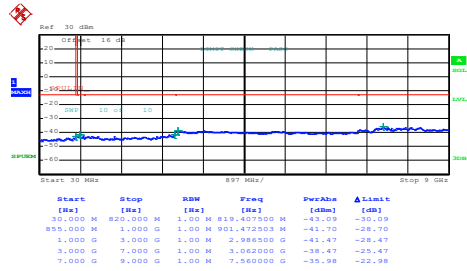
WCDMA Band II (HSUPA)

Lowest Channel



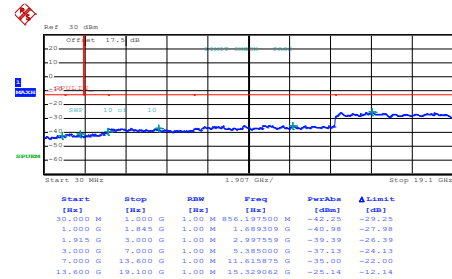
Date: 16.FEB.2022 14:34:46

Middle Channel



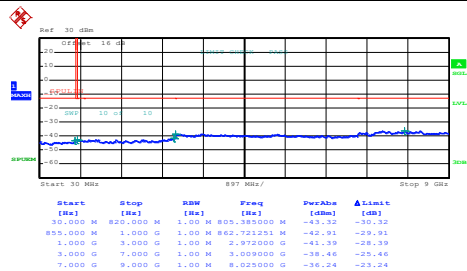
Date: 16.FEB.2022 15:08:09

Middle Channel



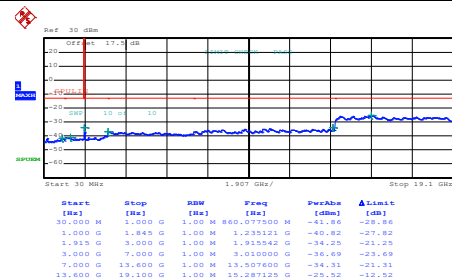
Date: 16.FEB.2022 14:35:40

Highest Channel



Date: 16.FEB.2022 15:09:03

Highest Channel

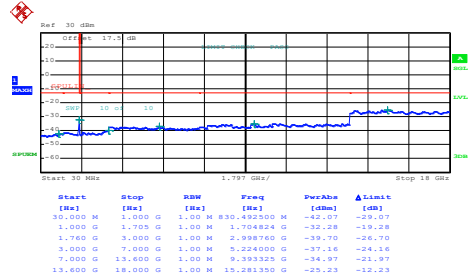


Date: 16.FEB.2022 14:36:34



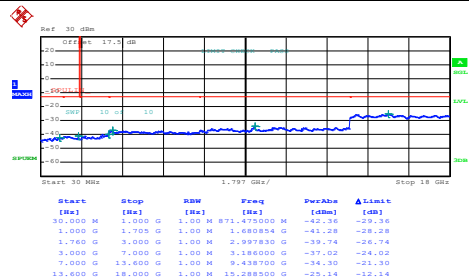
WCDMA Band IV (HSUPA)

Lowest Channel



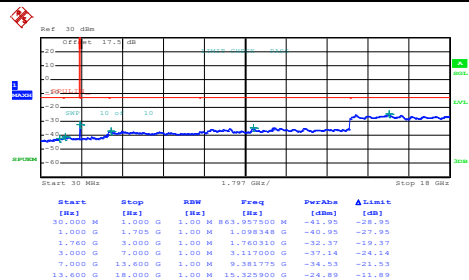
Date: 16.FEB.2022 14:49:58

Middle Channel



Date: 16.FEB.2022 14:51:13

Highest Channel



Date: 16.FEB.2022 14:52:23

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (HSUPA)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Test Conditions	Middle Channel	WCDMA Band II (HSUPA)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0053	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Test Conditions	Middle Channel	WCDMA Band IV (HSUPA)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.40 V.
2. The frequency fundamental emissions stay within the operation band.



Appendix B. Test Results of Radiated Test

<Primary Antenna>

<Ant. 0>

GPRS 850

GPRS 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-58.84	-13	-45.84	-68.49	-64.43	0.92	8.66	H
	2473	-41.20	-13	-28.20	-55.15	-48.57	1.14	10.66	H
	3297	-54.76	-13	-41.76	-70.82	-63.30	1.32	12.01	H
									H
									H
									H
	1648	-60.91	-13	-47.91	-70.03	-66.50	0.92	8.66	V
	2473	-44.96	-13	-31.96	-59.06	-52.33	1.14	10.66	V
	3297	-54.56	-13	-41.56	-71.09	-63.10	1.32	12.01	V
									V
									V
									V
Middle	1673	-57.60	-13	-44.60	-67.31	-63.28	0.93	8.76	H
	2509	-40.81	-13	-27.81	-54.76	-48.22	1.15	10.71	H
	3346	-55.02	-13	-42.02	-71	-63.67	1.33	12.13	H
									H
									H
									H
	1673	-59.18	-13	-46.18	-68.26	-64.86	0.93	8.76	V
	2509	-40.88	-13	-27.88	-55.03	-48.29	1.15	10.71	V
	3346	-54.54	-13	-41.54	-70.97	-63.19	1.33	12.13	V
									V
									V
									V



Highest	1698	-59.43	-13	-46.43	-69.21	-65.20	0.94	8.85	H
	2546	-50.83	-13	-37.83	-64.8	-58.27	1.16	10.76	H
	3395	-51.02	-13	-38.02	-66.91	-59.78	1.34	12.25	H
									H
									H
									H
									H
	1698	-60.85	-13	-47.85	-69.91	-66.62	0.94	8.85	V
	2546	-51.30	-13	-38.30	-65.37	-58.74	1.16	10.76	V
	3395	-50.89	-13	-37.89	-67.21	-59.65	1.34	12.25	V
									V
									V
									V
									V

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

**WCDMA 850**

WCDMA 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1653	-61.05	-13	-48.05	-70.71	-66.66	0.92	8.68	H
	2479	-51.91	-13	-38.91	-65.85	-59.29	1.15	10.67	H
	3306	-55.14	-13	-42.14	-71.19	-63.70	1.33	12.03	H
									H
									H
									H
									H
	1653	-61.78	-13	-48.78	-70.89	-67.39	0.92	8.68	V
	2479	-54.05	-13	-41.05	-68.16	-61.43	1.15	10.67	V
	3306	-54.72	-13	-41.72	-71.23	-63.28	1.33	12.03	V
									V
									V
									V
									V
Middle	1673	-61.24	-13	-48.24	-70.95	-66.92	0.93	8.76	H
	2509	-49.96	-13	-36.96	-63.91	-57.37	1.15	10.71	H
	3346	-54.48	-13	-41.48	-70.46	-63.13	1.33	12.13	H
									H
									H
									H
									H
	1673	-61.65	-13	-48.65	-70.73	-67.33	0.93	8.76	V
	2509	-56.85	-13	-43.85	-71	-64.26	1.15	10.71	V
	3346	-54.77	-13	-41.77	-71.2	-63.42	1.33	12.13	V
									V
									V
									V
									V



Highest	1693	-60.67	-13	-47.67	-70.44	-66.42	0.94	8.83	H
	2540	-49.77	-13	-36.77	-63.74	-57.21	1.16	10.75	H
	3386	-54.25	-13	-41.25	-70.14	-62.99	1.34	12.23	H
									H
									H
									H
									H
	1693	-61.68	-13	-48.68	-70.75	-67.43	0.94	8.83	V
	2540	-55.89	-13	-42.89	-69.98	-63.33	1.16	10.75	V
	3386	-55.19	-13	-42.19	-71.52	-63.93	1.34	12.23	V
									V
									V
									V
									V

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



<Ant. 2>

WCDMA 1700

WCDMA 1700									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3425	-54.32	-13	-41.32	-71.18	-65.29	1.35	12.32	H
	5137	-49.27	-13	-36.27	-70.84	-60.42	1.65	12.79	H
	6850	-46.61	-13	-33.61	-72.07	-56.98	1.74	12.11	H
									H
									H
									H
									H
	3425	-54.07	-13	-41.07	-71.35	-65.04	1.35	12.32	V
	5137	-49.94	-13	-36.94	-71.26	-61.09	1.65	12.79	V
	6850	-46.47	-13	-33.47	-71.52	-56.84	1.74	12.11	V
									V
									V
									V
									V
Middle	3465	-54.09	-13	-41.09	-71.36	-65.15	1.35	12.42	H
	5198	-49.89	-13	-36.89	-71.5	-61.11	1.66	12.88	H
	6930	-45.33	-13	-32.33	-71.19	-55.60	1.73	12.00	H
									H
									H
									H
									H
	3465	-53.60	-13	-40.60	-71.26	-64.66	1.35	12.42	V
	5198	-49.85	-13	-36.85	-71.3	-61.07	1.66	12.88	V
	6930	-46.40	-13	-33.40	-71.81	-56.67	1.73	12.00	V
									V
									V
									V
									V



Highest	3505	-51.92	-13	-38.92	-69.59	-63.06	1.36	12.50	H
	5258	-49.57	-13	-36.57	-71.4	-60.85	1.68	12.96	H
	7010	-45.29	-13	-32.29	-71.54	-55.45	1.73	11.88	H
									H
									H
									H
									H
	3505	-45.77	-13	-32.77	-63.78	-56.91	1.36	12.50	V
	5258	-49.70	-13	-36.70	-71.3	-60.98	1.68	12.96	V
	7010	-45.35	-13	-32.35	-71.12	-55.51	1.73	11.88	V
									V
									V
									V
									V

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

**GPRS 1900**

GPRS 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-52.69	-13	-39.69	-71.24	-63.90	1.41	12.62	H
	5551	-49.54	-13	-36.54	-72.45	-61.10	1.74	13.30	H
	7401	-45.11	-13	-32.11	-72.12	-54.43	1.94	11.26	H
									H
									H
									H
									H
	3700	-52.16	-13	-39.16	-70.85	-63.37	1.41	12.62	V
	5551	-50.01	-13	-37.01	-72.44	-61.57	1.74	13.30	V
	7401	-45.28	-13	-32.28	-72.13	-54.60	1.94	11.26	V
									V
									V
									V
									V
Middle	3760	-52.50	-13	-39.50	-71.19	-63.73	1.43	12.66	H
	5640	-48.57	-13	-35.57	-71.52	-60.14	1.73	13.30	H
	7520	-45.33	-13	-32.33	-71.81	-54.44	1.99	11.10	H
									H
									H
									H
									H
	3760	-52.28	-13	-39.28	-71.19	-63.51	1.43	12.66	V
	5640	-49.17	-13	-36.17	-71.71	-60.74	1.73	13.30	V
	7520	-45.19	-13	-32.19	-71.64	-54.30	1.99	11.10	V
									V
									V
									V
									V



Highest	3820	-52.64	-13	-39.64	-71.45	-63.89	1.44	12.69	H
	5729	-48.63	-13	-35.63	-72.01	-60.20	1.73	13.30	H
	7639	-46.07	-13	-33.07	-72.13	-55.19	2.01	11.13	H
									H
									H
									H
									H
	3820	-52.43	-13	-39.43	-71.47	-63.68	1.44	12.69	V
	5729	-49.01	-13	-36.01	-71.75	-60.58	1.73	13.30	V
	7639	-46.09	-13	-33.09	-72.06	-55.21	2.01	11.13	V
									V
									V
									V
									V

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

**WCDMA 1900**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-52.64	-13	-39.64	-71.2	-63.85	1.41	12.62	H
	5557	-49.47	-13	-36.47	-72.36	-61.03	1.74	13.30	H
	7410	-44.84	-13	-31.84	-71.8	-54.14	1.94	11.24	H
									H
									H
									H
									H
	3705	-52.60	-13	-39.60	-71.3	-63.81	1.41	12.62	V
	5557	-49.88	-13	-36.88	-72.32	-61.44	1.74	13.30	V
	7410	-44.74	-13	-31.74	-71.55	-54.04	1.94	11.24	V
									V
									V
									V
									V
Middle	3760	-52.04	-13	-39.04	-70.73	-63.27	1.43	12.66	H
	5640	-48.57	-13	-35.57	-71.52	-60.14	1.73	13.30	H
	7520	-45.18	-13	-32.18	-71.66	-54.29	1.99	11.10	H
									H
									H
									H
									H
	3760	-52.13	-13	-39.13	-71.04	-63.36	1.43	12.66	V
	5640	-48.96	-13	-35.96	-71.5	-60.53	1.73	13.30	V
	7520	-45.15	-13	-32.15	-71.59	-54.26	1.99	11.10	V
									V
									V
									V
									V



Highest	3815	-52.75	-13	-39.75	-71.55	-64.00	1.44	12.69	H
	5723	-48.60	-13	-35.60	-71.95	-60.17	1.73	13.30	H
	7630	-45.60	-13	-32.60	-71.67	-54.72	2.01	11.13	H
									H
									H
									H
									H
	3815	-52.52	-13	-39.52	-71.6	-63.77	1.44	12.69	V
	5723	-49.15	-13	-36.15	-71.87	-60.72	1.73	13.30	V
	7630	-46.00	-13	-33.00	-71.99	-55.12	2.01	11.13	V
									V
									V
									V
									V

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



<ASDIV Antenna>

<Ant. 1>

GPRS 850

GPRS 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-55.45	-13	-42.45	-65.11	-61.04	0.92	8.66	H
	2473	-40.94	-13	-27.94	-54.88	-48.31	1.14	10.66	H
	3297	-55.46	-13	-42.46	-71.51	-64.00	1.32	12.01	H
									H
									H
									H
									H
	1648	-66.66	-13	-53.66	-67.66	-72.25	0.92	8.66	V
	2473	-58.04	-13	-45.04	-59.04	-65.41	1.14	10.66	V
	3297	-70.61	-13	-57.61	-71.61	-79.15	1.32	12.01	V
									V
									V
									V
									V
Middle	1673	-53.23	-13	-40.23	-62.94	-58.91	0.93	8.76	H
	2509	-39.35	-13	-26.35	-53.3	-46.76	1.15	10.71	H
	3346	-55.00	-13	-42.00	-70.98	-63.65	1.33	12.13	H
									H
									H
									H
									H
	1673	-55.86	-13	-42.86	-64.94	-61.54	0.93	8.76	V
	2509	-42.08	-13	-29.08	-56.23	-49.49	1.15	10.71	V
	3346	-54.94	-13	-41.94	-71.37	-63.59	1.33	12.13	V
									V
									V
									V
									V



Highest	1698	-52.82	-13	-39.82	-62.6	-58.59	0.94	8.85	H
	2546	-37.87	-13	-24.87	-51.84	-45.31	1.16	10.76	H
	3395	-55.20	-13	-42.20	-71.09	-63.96	1.34	12.25	H
									H
									H
									H
									H
	1698	-58.94	-13	-45.94	-68	-64.71	0.94	8.85	V
	2546	-56.60	-13	-43.60	-70.67	-64.04	1.16	10.76	V
	3395	-37.74	-13	-24.74	-54.06	-46.50	1.34	12.25	V
									V
									V
									V
									V

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

**WCDMA 850**

WCDMA 850									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1653	-61.15	-13	-48.15	-70.81	-66.76	0.92	8.68	H
	2479	-50.71	-13	-37.71	-64.65	-58.09	1.15	10.67	H
	3306	-55.21	-13	-42.21	-71.26	-63.77	1.33	12.03	H
									H
									H
									H
									H
	1653	-61.55	-13	-48.55	-70.66	-67.16	0.92	8.68	V
	2479	-48.19	-13	-35.19	-62.3	-55.57	1.15	10.67	V
	3306	-54.54	-13	-41.54	-71.05	-63.10	1.33	12.03	V
									V
									V
									V
									V
Middle	1673	-60.79	-13	-47.79	-70.5	-66.47	0.93	8.76	H
	2509	-54.68	-13	-41.68	-68.63	-62.09	1.15	10.71	H
	3346	-55.22	-13	-42.22	-71.2	-63.87	1.33	12.13	H
									H
									H
									H
									H
	1673	-61.67	-13	-48.67	-70.75	-67.35	0.93	8.76	V
	2509	-50.34	-13	-37.34	-64.49	-57.75	1.15	10.71	V
	3346	-54.68	-13	-41.68	-71.11	-63.33	1.33	12.13	V
									V
									V
									V
									V



Highest	1693	-60.84	-13	-47.84	-70.61	-66.59	0.94	8.83	H
	2540	-49.90	-13	-36.90	-63.87	-57.34	1.16	10.75	H
	3386	-55.27	-13	-42.27	-71.16	-64.01	1.34	12.23	H
									H
									H
									H
									H
	1693	-61.83	-13	-48.83	-70.9	-67.58	0.94	8.83	V
	2540	-50.74	-13	-37.74	-64.83	-58.18	1.16	10.75	V
	3386	-54.54	-13	-41.54	-70.87	-63.28	1.34	12.23	V
									V
									V
									V
									V

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



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WCDMA 1700

WCDMA 1700									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3425	-54.13	-13	-41.13	-70.99	-65.10	1.35	12.32	H
	5137	-47.20	-13	-34.20	-68.77	-58.35	1.65	12.79	H
	6850	-46.22	-13	-33.22	-71.68	-56.59	1.74	12.11	H
									H
									H
									H
									H
	3425	-53.67	-13	-40.67	-70.95	-64.64	1.35	12.32	V
	5137	-47.64	-13	-34.64	-68.96	-58.79	1.65	12.79	V
	6850	-46.90	-13	-33.90	-71.95	-57.27	1.74	12.11	V
									V
									V
									V
									V
Middle	3465	-53.90	-13	-40.90	-71.17	-64.96	1.35	12.42	H
	5198	-44.39	-13	-31.39	-66	-55.61	1.66	12.88	H
	6930	-45.51	-13	-32.51	-71.37	-55.78	1.73	12.00	H
									H
									H
									H
									H
	3465	-53.29	-13	-40.29	-70.95	-64.35	1.35	12.42	V
	5198	-45.86	-13	-32.86	-67.31	-57.08	1.66	12.88	V
	6930	-46.48	-13	-33.48	-71.89	-56.75	1.73	12.00	V
									V
									V
									V
									V



Highest	3505	-53.43	-13	-40.43	-71.1	-64.57	1.36	12.50	H
	5258	-46.66	-13	-33.66	-68.49	-57.94	1.68	12.96	H
	7010	-45.33	-13	-32.33	-71.58	-55.49	1.73	11.88	H
									H
									H
									H
									H
	3505	-47.39	-13	-34.39	-65.4	-58.53	1.36	12.50	V
	5258	-47.82	-13	-34.82	-69.42	-59.10	1.68	12.96	V
	7010	-45.46	-13	-32.46	-71.23	-55.62	1.73	11.88	V
									V
									V
									V
									V

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

**GPRS 1900**

GPRS 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-52.44	-13	-39.44	-70.99	-63.65	1.41	12.62	H
	5551	-49.10	-13	-36.10	-72.01	-60.66	1.74	13.30	H
	7401	-45.02	-13	-32.02	-72.03	-54.34	1.94	11.26	H
									H
									H
									H
									H
	3700	-52.22	-13	-39.22	-70.91	-63.43	1.41	12.62	V
	5551	-49.52	-13	-36.52	-71.95	-61.08	1.74	13.30	V
	7401	-44.87	-13	-31.87	-71.72	-54.19	1.94	11.26	V
									V
									V
									V
									V
Middle	3760	-51.83	-13	-38.83	-70.52	-63.06	1.43	12.66	H
	5640	-48.79	-13	-35.79	-71.74	-60.36	1.73	13.30	H
	7520	-45.07	-13	-32.07	-71.55	-54.18	1.99	11.10	H
									H
									H
									H
									H
	3760	-51.95	-13	-38.95	-70.86	-63.18	1.43	12.66	V
	5640	-49.26	-13	-36.26	-71.8	-60.83	1.73	13.30	V
	7520	-45.66	-13	-32.66	-72.1	-54.77	1.99	11.10	V
									V
									V
									V
									V



Highest	3820	-52.47	-13	-39.47	-71.28	-63.72	1.44	12.69	H
	5729	-48.38	-13	-35.38	-71.76	-59.95	1.73	13.30	H
	7639	-45.88	-13	-32.88	-71.94	-55.00	2.01	11.13	H
									H
									H
									H
									H
	3820	-51.73	-13	-38.73	-70.77	-62.98	1.44	12.69	V
	5729	-49.21	-13	-36.21	-71.95	-60.78	1.73	13.30	V
	7639	-46.20	-13	-33.20	-72.17	-55.32	2.01	11.13	V
									V
									V
									V
									V

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

**WCDMA 1900**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-52.44	-13	-39.44	-71	-63.65	1.41	12.62	H
	5557	-41.08	-13	-28.08	-63.97	-52.64	1.74	13.30	H
	7410	-45.16	-13	-32.16	-72.12	-54.46	1.94	11.24	H
									H
									H
									H
									H
	3705	-52.25	-13	-39.25	-70.95	-63.46	1.41	12.62	V
	5557	-44.79	-13	-31.79	-67.23	-56.35	1.74	13.30	V
	7410	-45.26	-13	-32.26	-72.07	-54.56	1.94	11.24	V
									V
									V
									V
									V
Middle	3760	-51.86	-13	-38.86	-70.55	-63.09	1.43	12.66	H
	5640	-44.21	-13	-31.21	-67.16	-55.78	1.73	13.30	H
	7520	-45.29	-13	-32.29	-71.77	-54.40	1.99	11.10	H
									H
									H
									H
									H
	3760	-51.99	-13	-38.99	-70.9	-63.22	1.43	12.66	V
	5640	-46.30	-13	-33.30	-68.84	-57.87	1.73	13.30	V
	7520	-45.53	-13	-32.53	-71.97	-54.64	1.99	11.10	V
									V
									V
									V
									V



Highest	3815	-52.01	-13	-39.01	-70.81	-63.26	1.44	12.69	H
	5723	-43.00	-13	-30.00	-66.35	-54.57	1.73	13.30	H
	7630	-45.82	-13	-32.82	-71.89	-54.94	2.01	11.13	H
									H
									H
									H
									H
	3815	-51.89	-13	-38.89	-70.93	-63.14	1.44	12.69	V
	5723	-45.80	-13	-32.80	-68.52	-57.37	1.73	13.30	V
	7630	-45.97	-13	-32.97	-71.96	-55.09	2.01	11.13	V
									V
									V
									V
									V

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

————THE END————