



FCC RADIO TEST REPORT

FCC ID : RI7FN980M
Equipment : 5G/ LTE M.2 Data Card
Brand Name : Telit
Model Name : FN980m
Marketing Name : FN980m
Applicant : TELIT COMMUNICATIONS S.P.A.
VIA STAZIONE DI PROSECCO 5B - SGONICO
-TRIESTE - ITALY
Manufacturer : TELIT COMMUNICATIONS S.P.A.
VIA STAZIONE DI PROSECCO 5B - SGONICO
-TRIESTE - ITALY
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Mar. 17, 2020 and testing was started from Apr. 01, 2020 and completed on Jun. 19, 2020. 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 of 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, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG031715-01A	01	Initial issue of report	Jul. 17, 2020

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)(2)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (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 (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (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 (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 39.16 dB at 7630.000 MHz

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Wii Chang

Report Producer: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: <Ant. 0> Dipole Antenna <Ant. 1> Dipole Antenna <Ant. 2> Dipole Antenna <Ant. 3> Dipole Antenna GNSS : <1559 MHz ~ 1610 MHz>: <Ant. 3> Dipole Antenna <Ant. 4> Dipole Antenna <1164 MHz ~ 1215 MHz>: <Ant. 2> Dipole Antenna

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH03-HY	03CH07-HY
Test Engineer	Louis Chung	Jesse Wang, Stan Hsieh, Ken Wu
Temperature	21-24°C	23~25°C
Relative Humidity	51-55%	50~56%

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

FCC Designation No.: TW1190

1.4 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.

Radiated emissions were investigated as following frequency range:

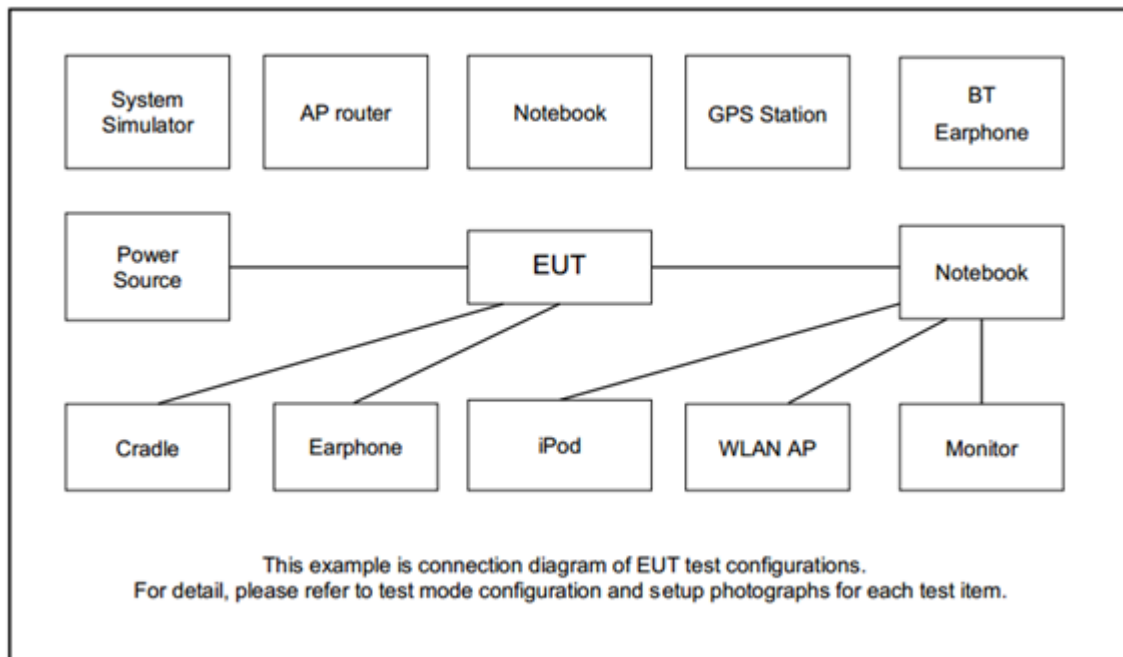
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

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
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





2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC power Supply	Agilent	E3610A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB 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
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
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

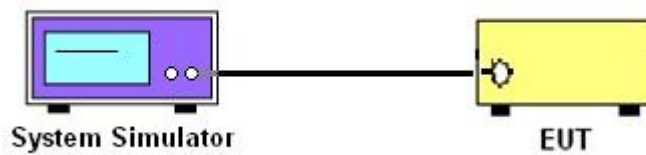
3 Conducted Test Result

3.1 Measuring Instruments

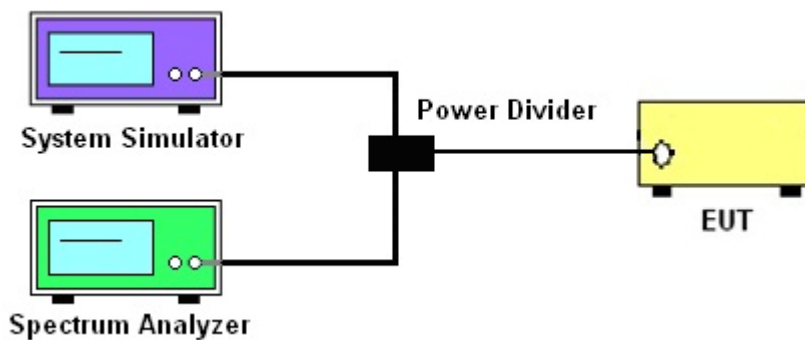
See list of measuring instruments of this test report.

3.1.1 Test Setup

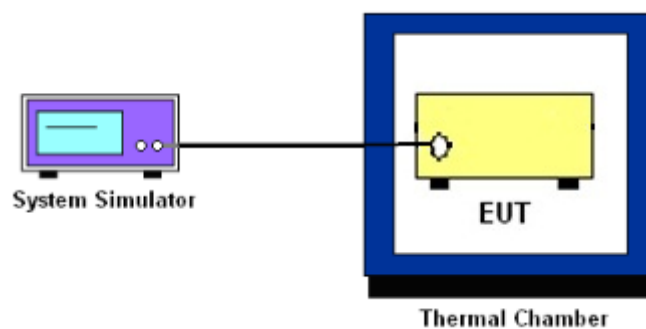
3.1.2 Conducted Output Power



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 WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for 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 lowest, middle, and 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.

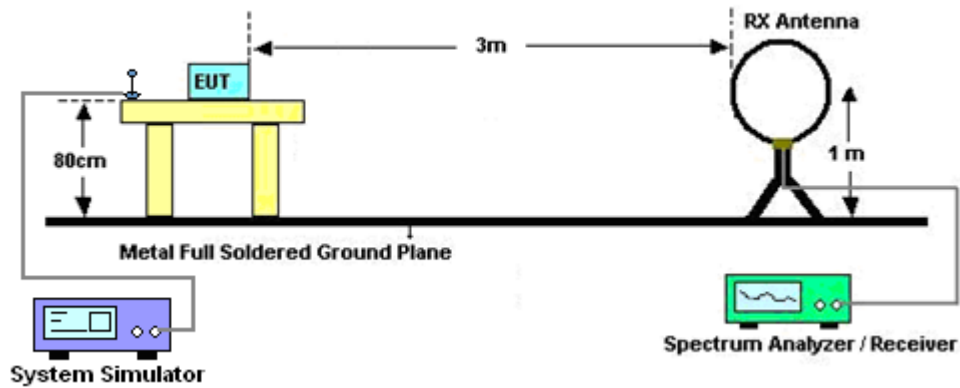
4 Radiated Test Items

4.1 Measuring Instruments

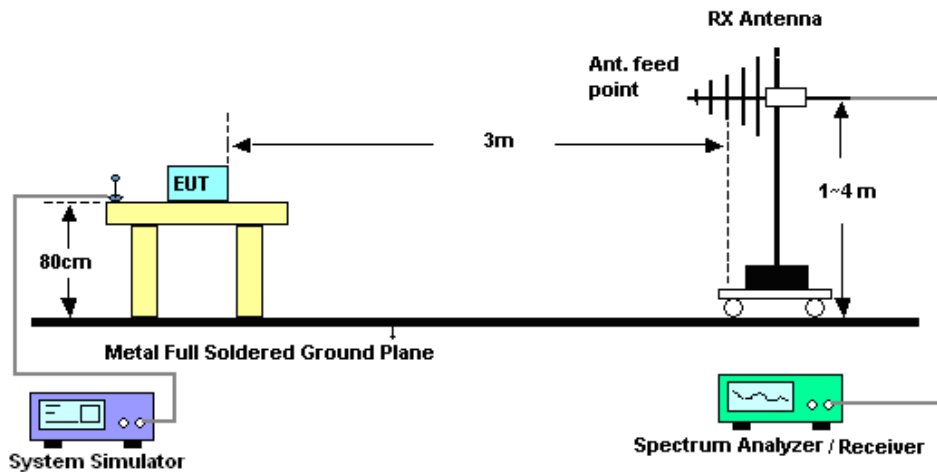
See list of measuring instruments of this test report.

4.2 Test Setup

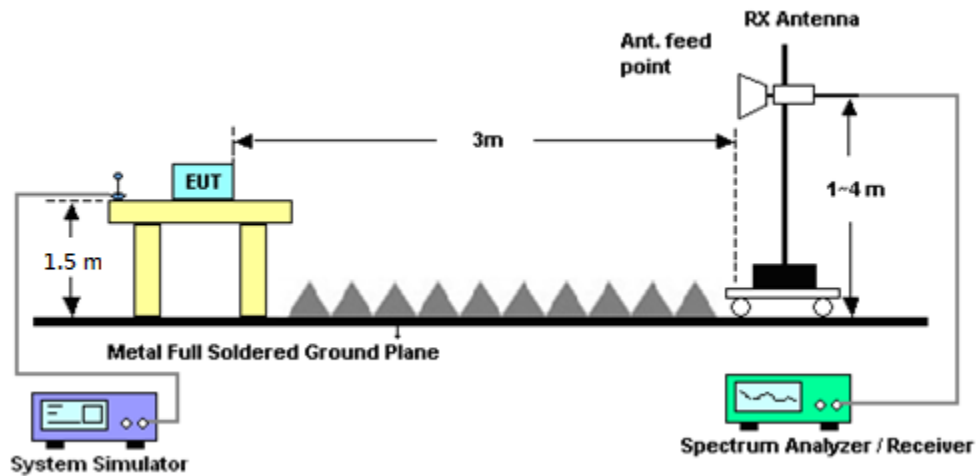
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is a comparison data 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 1GHz and 1.5 meter for frequency above 1GHz 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 = 1MHz, VBW = 3MHz, 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. Taking 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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 26, 2020	May 23, 2020	Mar. 25, 2020	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	May 23, 2020	Sep. 03, 2020	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 26, 2019	May 23, 2020	Nov. 25, 2020	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 09, 2019	May 23, 2020	Oct. 08, 2020	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26.5S-20	#A	N/A	Nov. 06, 2019	May 23, 2020	Nov. 05, 2020	Conducted (TH03-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 30, 2019	Apr. 01, 2020~ Apr. 28, 2020	Apr. 29, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Apr. 30, 2020~ Jun. 19, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Apr. 01, 2020~ Jun. 19, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Apr. 01, 2020~ Jun. 19, 2020	Feb. 09, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 20, 2019	Apr. 01, 2020~ May. 18, 2020	May 19, 2020	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	May 20, 2020~ Jun. 19, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Apr. 01, 2020~ Jun. 19, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,80 1606/2	18GHz~40GHz	Feb. 25, 2020	Apr. 01, 2020~ Jun. 19, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Apr. 01, 2020~ Jun. 19, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Apr. 01, 2020~ Jun. 19, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Jan. 10, 2020	Apr. 01, 2020~ Jun. 19, 2020	Jan. 09, 2021	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 26, 2019	Apr. 01, 2020~ Jun. 19, 2020	Nov. 25, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Apr. 01, 2020~ Jun. 19, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Apr. 01, 2020~ Jun. 19, 2020	N/A	Radiation (03CH07-HY)
Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Apr. 01, 2020~ Jun. 19, 2020	Aug. 26, 2020	Radiation (03CH07-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.23
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.63
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2K	23.44	23.50	23.43	23.62	23.48	23.51
HSDPA Subtest-1	22.48	22.52	22.49	22.63	22.52	22.59
HSDPA Subtest-2	22.46	22.48	22.48	22.61	22.50	22.58
HSDPA Subtest-3	21.92	22.02	21.99	22.07	22.03	22.05
HSDPA Subtest-4	21.90	22.01	21.98	22.06	22.02	22.03
HSUPA Subtest-1	22.43	22.47	22.45	22.61	22.51	22.55
HSUPA Subtest-2	20.31	20.43	20.41	20.58	20.44	20.51
HSUPA Subtest-3	21.26	21.41	21.44	21.50	21.46	21.49
HSUPA Subtest-4	20.33	20.41	20.40	20.56	20.43	20.43
HSUPA Subtest-5	22.41	22.45	22.43	22.58	22.47	22.31

Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	23.55	23.61	23.57
HSDPA Subtest-1	22.54	22.66	22.59
HSDPA Subtest-2	22.51	22.63	22.56
HSDPA Subtest-3	22.02	22.16	22.03
HSDPA Subtest-4	22.01	22.12	22.02
HSUPA Subtest-1	22.51	22.63	22.56
HSUPA Subtest-2	20.48	20.52	20.53
HSUPA Subtest-3	21.43	21.36	21.47
HSUPA Subtest-4	20.47	20.50	20.51
HSUPA Subtest-5	22.48	22.61	22.53

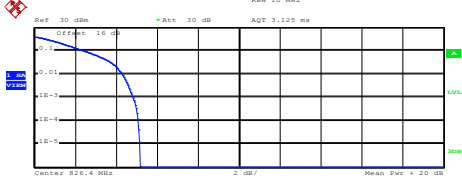
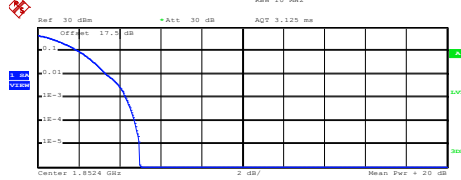
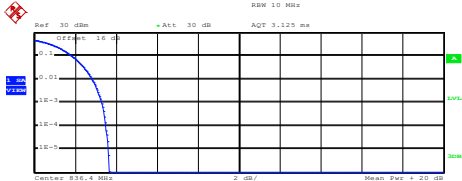
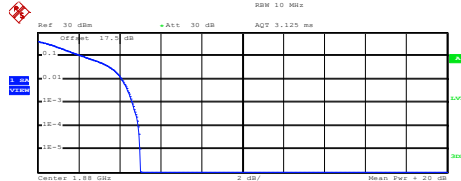
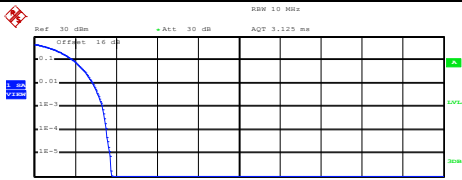
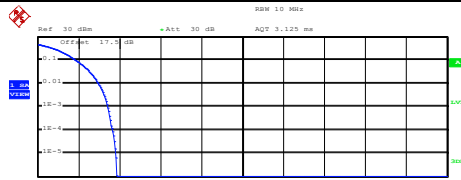


A2. WCDMA

Peak-to-Average Ratio

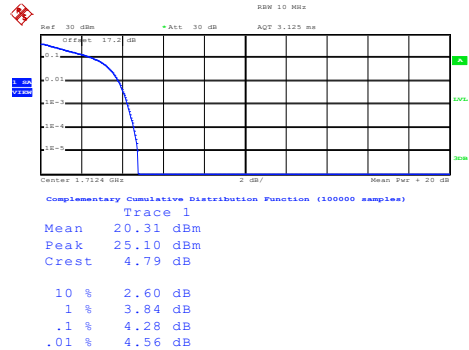
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	4.84	4.32	4.28	PASS
Middle CH	3.32	4.64	3.56	
Highest CH	3.32	3.44	3.60	



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																
Lowest Channel	Lowest Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 826.4 MHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.72 dBm Peak: 24.89 dBm Crest: 5.17 dB</p> <table><tr><td>10 %</td><td>2.52 dB</td></tr><tr><td>1 %</td><td>4.32 dB</td></tr><tr><td>.1 %</td><td>4.84 dB</td></tr><tr><td>.01 %</td><td>5.08 dB</td></tr></table> <p>Date: 1.JAN.2003 01:27:22</p>	10 %	2.52 dB	1 %	4.32 dB	.1 %	4.84 dB	.01 %	5.08 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.8524 GHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.54 dBm Peak: 24.53 dBm Crest: 4.99 dB</p> <table><tr><td>10 %</td><td>2.00 dB</td></tr><tr><td>1 %</td><td>3.36 dB</td></tr><tr><td>.1 %</td><td>4.32 dB</td></tr><tr><td>.01 %</td><td>4.72 dB</td></tr></table> <p>Date: 1.JAN.2003 00:45:07</p>	10 %	2.00 dB	1 %	3.36 dB	.1 %	4.32 dB	.01 %	4.72 dB
10 %	2.52 dB																
1 %	4.32 dB																
.1 %	4.84 dB																
.01 %	5.08 dB																
10 %	2.00 dB																
1 %	3.36 dB																
.1 %	4.32 dB																
.01 %	4.72 dB																
Middle Channel	Middle Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 830.4 MHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 21.10 dBm Peak: 24.75 dBm Crest: 3.65 dB</p> <table><tr><td>10 %</td><td>1.84 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.32 dB</td></tr><tr><td>.01 %</td><td>3.52 dB</td></tr></table> <p>Date: 1.JAN.2003 01:27:36</p>	10 %	1.84 dB	1 %	2.84 dB	.1 %	3.32 dB	.01 %	3.52 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.67 dBm Peak: 24.68 dBm Crest: 5.00 dB</p> <table><tr><td>10 %</td><td>2.24 dB</td></tr><tr><td>1 %</td><td>4.12 dB</td></tr><tr><td>.1 %</td><td>4.64 dB</td></tr><tr><td>.01 %</td><td>4.92 dB</td></tr></table> <p>Date: 1.JAN.2003 00:45:22</p>	10 %	2.24 dB	1 %	4.12 dB	.1 %	4.64 dB	.01 %	4.92 dB
10 %	1.84 dB																
1 %	2.84 dB																
.1 %	3.32 dB																
.01 %	3.52 dB																
10 %	2.24 dB																
1 %	4.12 dB																
.1 %	4.64 dB																
.01 %	4.92 dB																
Highest Channel	Highest Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 846.6 MHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 21.19 dBm Peak: 24.96 dBm Crest: 3.77 dB</p> <table><tr><td>10 %</td><td>1.92 dB</td></tr><tr><td>1 %</td><td>2.88 dB</td></tr><tr><td>.1 %</td><td>3.32 dB</td></tr><tr><td>.01 %</td><td>3.52 dB</td></tr></table> <p>Date: 1.JAN.2003 01:27:48</p>	10 %	1.92 dB	1 %	2.88 dB	.1 %	3.32 dB	.01 %	3.52 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.9076 GHz 2 dB/ Mean: Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 20.45 dBm Peak: 24.32 dBm Crest: 3.88 dB</p> <table><tr><td>10 %</td><td>1.88 dB</td></tr><tr><td>1 %</td><td>2.96 dB</td></tr><tr><td>.1 %</td><td>3.44 dB</td></tr><tr><td>.01 %</td><td>3.68 dB</td></tr></table> <p>Date: 1.JAN.2003 00:45:38</p>	10 %	1.88 dB	1 %	2.96 dB	.1 %	3.44 dB	.01 %	3.68 dB
10 %	1.92 dB																
1 %	2.88 dB																
.1 %	3.32 dB																
.01 %	3.52 dB																
10 %	1.88 dB																
1 %	2.96 dB																
.1 %	3.44 dB																
.01 %	3.68 dB																

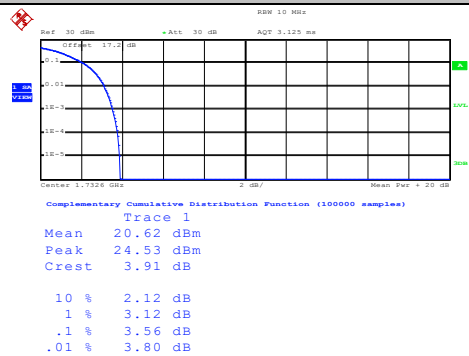
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



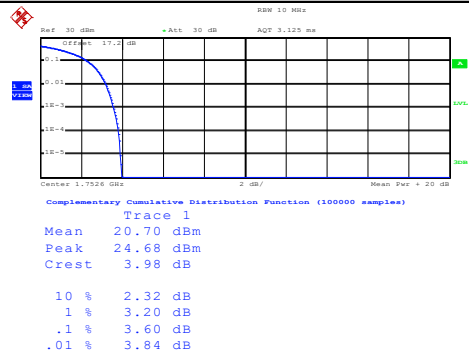
Date: 1.JAN.2003 01:13:30

Middle Channel



Date: 1.JAN.2003 01:13:43

Highest Channel



Date: 1.JAN.2003 01:13:56

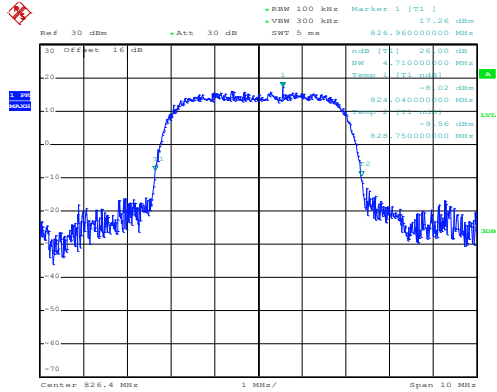
**26dB Bandwidth**

Mode	WCDMA Band V 26dB BW(MHz)	WCDMA Band II 26dB BW(MHz)	WCDMA Band IV 26dB BW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.71	4.71	4.74
Middle CH	4.70	4.73	4.74
Highest CH	4.73	4.73	4.70



WCDMA Band V (RMC 12.2Kbps)

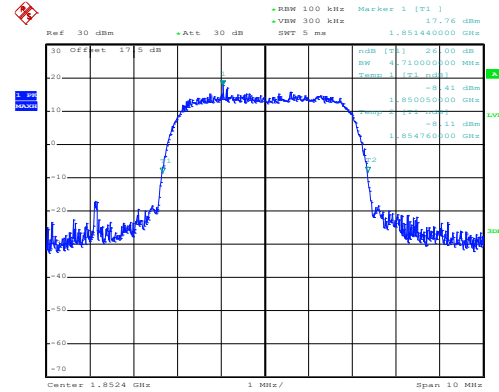
Lowest Channel



Date: 1.JAN.2003 01:22:46

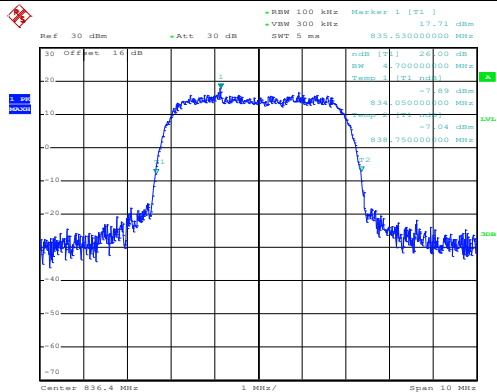
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



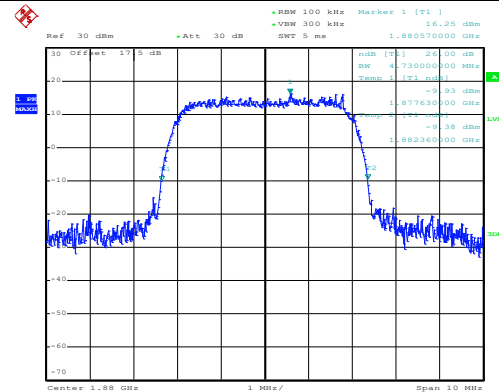
Date: 1.JAN.2003 00:40:24

Middle Channel



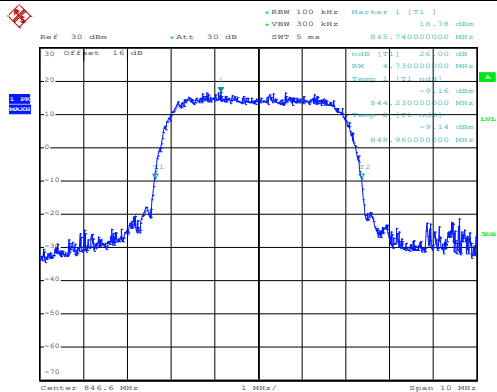
Date: 1.JAN.2003 01:23:32

Middle Channel



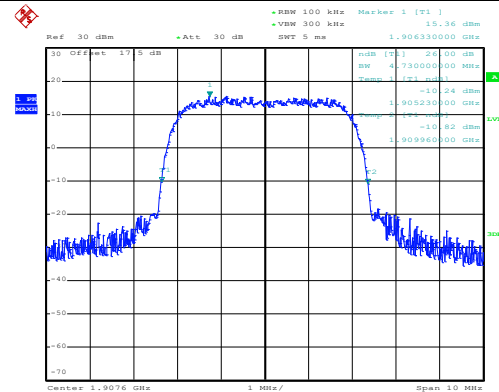
Date: 1.JAN.2003 00:41:22

Highest Channel

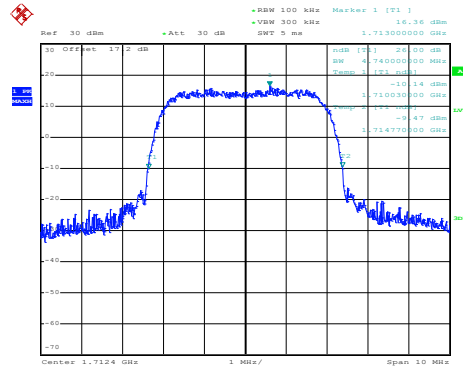


Date: 1.JAN.2003 01:24:05

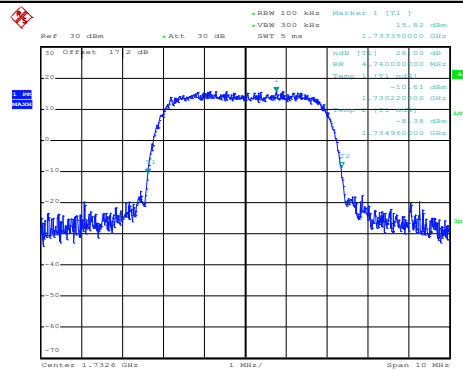
Highest Channel



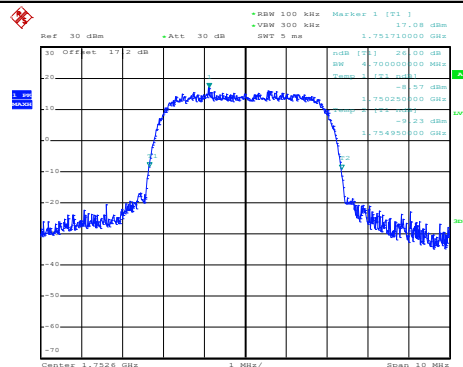
Date: 1.JAN.2003 00:41:59

WCDMA Band IV (RMC 12.2Kbps)
Lowest Channel


Date: 1.JAN.2003 01:08:54

Middle Channel


Date: 1.JAN.2003 01:09:31

Highest Channel


Date: 1.JAN.2003 01:10:05

**Occupied Bandwidth**

Mode	WCDMA Band V 99% OBW(MHz)	WCDMA Band II 99% OBW(MHz)	WCDMA Band IV 99% OBW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.15	4.15
Middle CH	4.14	4.15	4.15
Highest CH	4.15	4.14	4.15

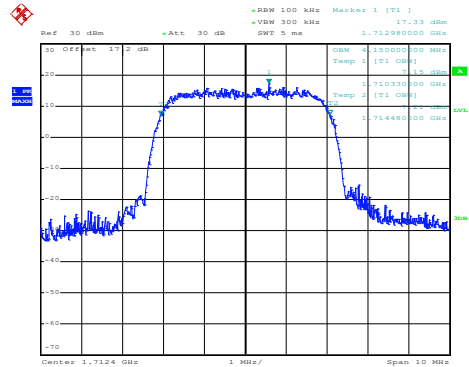


WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
<div></div> <p>Date: 1.JAN.2003 01:28:42</p>	<div></div> <p>Date: 1.JAN.2003 00:46:13</p>
Middle Channel	Middle Channel
<div></div> <p>Date: 1.JAN.2003 01:29:16</p>	<div></div> <p>Date: 1.JAN.2003 00:46:46</p>
Highest Channel	Highest Channel
<div></div> <p>Date: 1.JAN.2003 01:29:49</p>	<div></div> <p>Date: 1.JAN.2003 00:47:20</p>



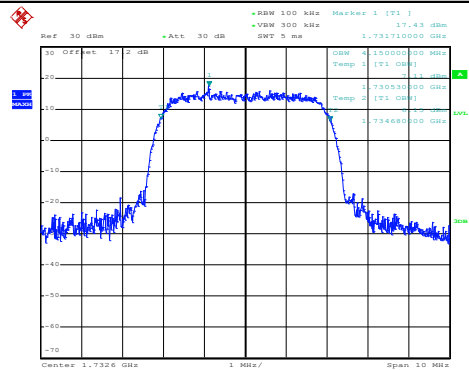
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



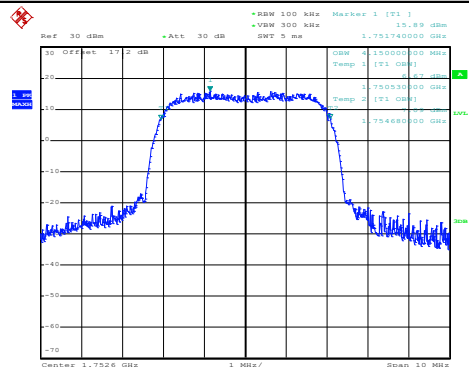
Date: 1.JAN.2003 01:14:34

Middle Channel



Date: 1.JAN.2003 01:15:06

Highest Channel



Date: 1.JAN.2003 01:15:39

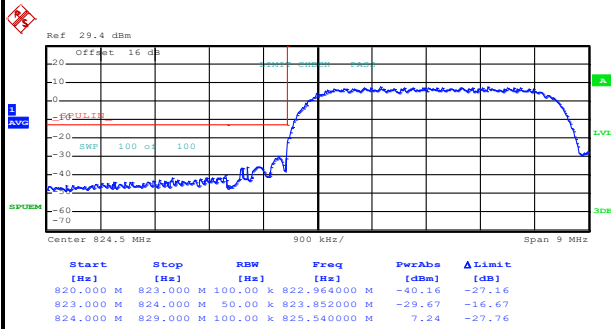


Conducted Band Edge



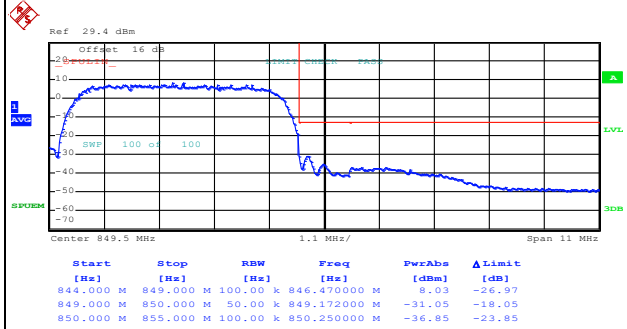
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 1.JAN.2003 01:32:47

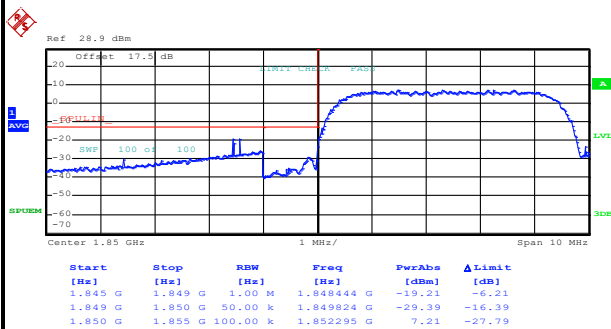
Highest Band Edge



Date: 1.JAN.2003 01:35:40

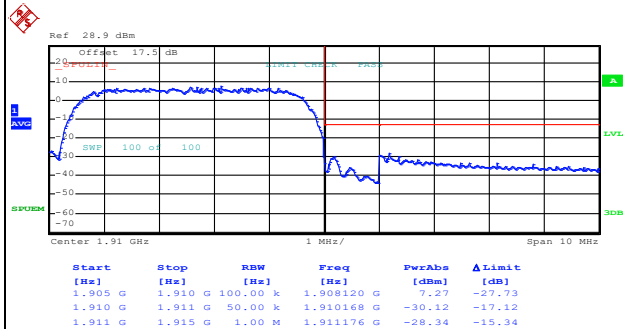
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 1.JAN.2003 00:50:15

Highest Band Edge

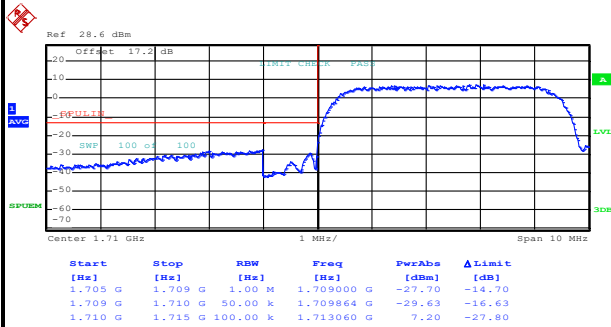


Date: 1.JAN.2003 00:53:05



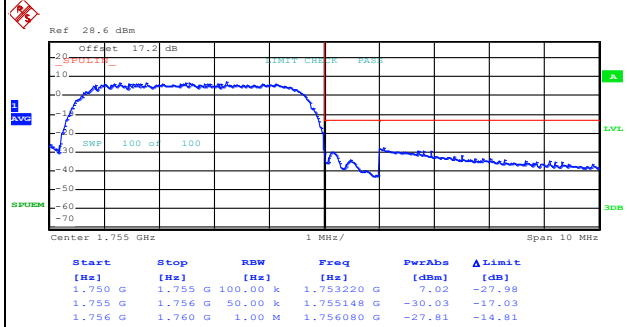
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 1.JAN.2003 01:18:32

Highest Band Edge



Date: 1.JAN.2003 01:21:21

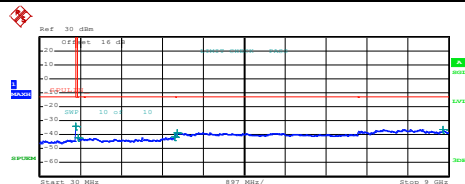


Conducted Spurious Emission



WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

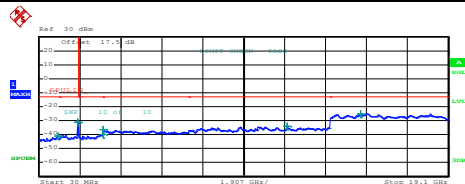


Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	820,000 M	1,000 M	818,012500 M	-34.18	-21.18
855,000 M	1,000 G	1,000 M	872,798751 M	-41.98	-28.98
1,000 G	3,000 G	1,000 M	2,983000 G	-42.83	-28.83
3,000 G	7,000 G	1,000 M	3,051000 G	-38.69	-25.69
7,000 G	9,000 G	1,000 M	8,873500 G	-36.36	-23.36

Date: 1.JAN.2003 01:25:16

WCDMA Band II (RMC 12.2Kbps)

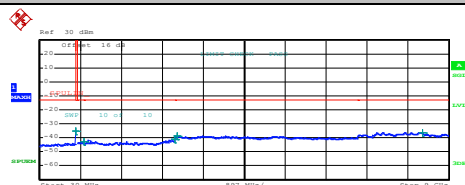
Lowest Channel



Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	1,000 G	1,000 M	903,242500 M	-41.08	-28.08
1,000 G	1,845 G	1,000 M	1,841198 G	-31.04	-18.04
1,915 G	3,000 G	1,000 M	2,994032 G	-40.09	-27.09
3,000 G	7,000 G	1,000 M	3,004000 G	-36.51	-23.51
7,000 G	13,600 G	1,000 M	11,577925 G	-33.98	-20.98
13,600 G	19,100 G	1,000 M	15,001813 G	-25.24	-12.24

Date: 1.JAN.2003 00:42:56

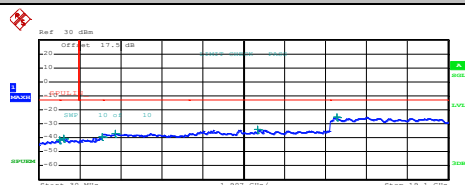
Middle Channel



Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	820,000 M	1,000 M	818,617500 M	-35.48	-22.48
855,000 M	1,000 G	1,000 M	997,283200 M	-42.05	-28.05
1,000 G	3,000 G	1,000 M	2,999000 G	-40.87	-27.87
3,000 G	7,000 G	1,000 M	3,043000 G	-38.59	-25.59
7,000 G	9,000 G	1,000 M	8,423500 G	-38.22	-23.22

Date: 1.JAN.2003 01:26:07

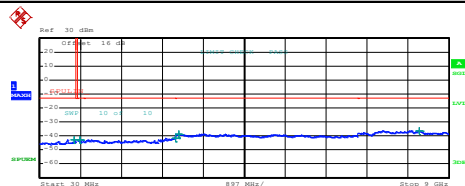
Middle Channel



Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	1,000 G	1,000 M	988,117500 M	-41.74	-28.74
1,000 G	1,845 G	1,000 M	1,846141 G	-40.59	-27.59
1,915 G	3,000 G	1,000 M	2,983996 G	-39.44	-26.44
3,000 G	7,000 G	1,000 M	3,581000 G	-37.04	-24.04
7,000 G	13,600 G	1,000 M	10,236675 G	-33.99	-20.99
13,600 G	19,100 G	1,000 M	13,918313 G	-25.01	-12.01

Date: 1.JAN.2003 00:43:53

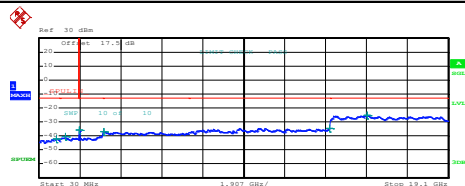
Highest Channel



Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	820,000 M	1,000 M	779,115000 M	-42.63	-29.63
855,000 M	1,000 G	1,000 M	906,040004 M	-42.55	-29.55
1,000 G	3,000 G	1,000 M	3,000000 G	-42.50	-28.50
3,000 G	7,000 G	1,000 M	3,075000 G	-38.78	-25.78
7,000 G	9,000 G	1,000 M	8,352500 G	-38.26	-23.26

Date: 1.JAN.2003 01:27:01

Highest Channel



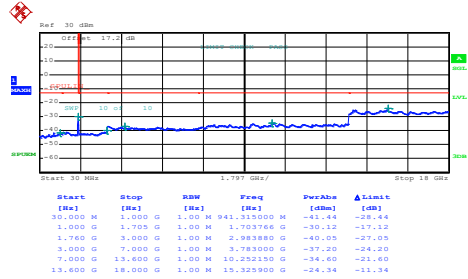
Start	Stop	RBW	Freq	Power	Limit
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]
30,000 M	1,000 G	1,000 M	835,142500 M	-42.30	-29.30
1,000 G	1,845 G	1,000 M	1,244839 G	-40.62	-27.62
1,915 G	3,000 G	1,000 M	1,956356 G	-35.74	-22.74
3,000 G	7,000 G	1,000 M	3,041000 G	-36.81	-23.81
7,000 G	13,600 G	1,000 M	13,571125 G	-34.50	-21.50
13,600 G	19,100 G	1,000 M	15,333250 G	-25.22	-12.22

Date: 1.JAN.2003 00:44:47



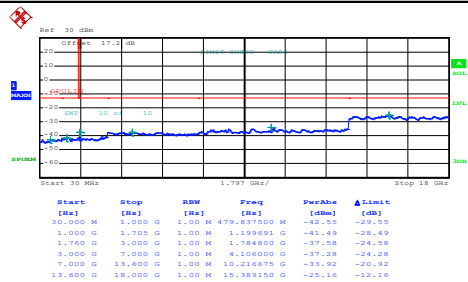
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



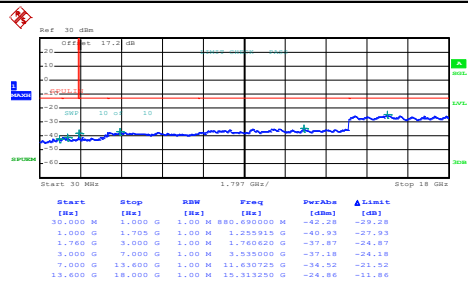
Date: 1.JAN.2003 01:11:24

Middle Channel



Date: 1.JAN.2003 01:12:18

Highest Channel



Date: 1.JAN.2003 01:13:11

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Note:

1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.1 V. ; Maximum Voltage =3.6 V
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	WCDMA Band V (GT - LC = 4 dB)	23.44	0.2208	25.29	0.3381
Middle		23.50	0.2239	25.35	0.3428
Highest		23.43	0.2203	25.28	0.3373
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band II (GT - LC = 6 dB)	23.62	0.2301	29.62	0.9162
Middle		23.48	0.2228	29.48	0.8872
Highest		23.51	0.2244	29.51	0.8933
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV (GT - LC = 6 dB)	23.55	0.2265	29.55	0.9016
Middle		23.61	0.2296	29.61	0.9141
Highest		23.57	0.2275	29.57	0.9057
Limit	EIRP < 1W	Result		PASS	

**Radiated Spurious Emission****WCDMA Band V**

WCDMA Band V									
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	-63.54	-13	-50.54	-75.43	-65.3	0.98	4.89	H
	2480	-59.39	-13	-46.39	-76.7	-61.3	1.28	5.34	H
	3296	-57.99	-13	-44.99	-77.13	-61.4	1.54	7.10	H
									H
									H
									H
									H
	1648	-62.84	-13	-49.84	-75.17	-64.6	0.98	4.89	V
	2480	-59.19	-13	-46.19	-76.66	-61.1	1.28	5.34	V
	3296	-57.49	-13	-44.49	-77.14	-60.9	1.54	7.10	V
									V
									V
									V
									V
Middle	1672	-63.42	-13	-50.42	-75.6	-65.1	0.99	4.82	H
	2512	-59.73	-13	-46.73	-76.96	-61.7	1.29	5.41	H
	3345	-57.69	-13	-44.69	-77.24	-61.3	1.56	7.32	H
									H
									H
									H
									H
	1672	-62.82	-13	-49.82	-75.46	-64.5	0.99	4.82	V
	2512	-59.23	-13	-46.23	-76.88	-61.2	1.29	5.41	V
	3345	-57.89	-13	-44.89	-77.49	-61.5	1.56	7.32	V
									V
									V



Highest	1696	-63.40	-13	-50.40	-75.73	-65	1.00	4.75	H
	2536	-59.32	-13	-46.32	-76.36	-61.3	1.30	5.43	H
	3386	-57.62	-13	-44.62	-77.42	-61.4	1.57	7.50	H
									H
									H
									H
									H
	1696	-63.00	-13	-50.00	-75.92	-64.6	1.00	4.75	V
	2536	-59.12	-13	-46.12	-76.59	-61.1	1.30	5.43	V
	3386	-57.32	-13	-44.32	-77.39	-61.1	1.57	7.50	V
									V
									V
									V
									V

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

**WCDMA Band II**

WCDMA Band II									
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	3702	-57.75	-13	-44.75	-78.59	-64.32	1.67	8.24	H
	5556	-55.71	-13	-42.71	-80.88	-62.78	2.66	9.72	H
	7408	-53.32	-13	-40.32	-80.96	-62.48	2.46	11.62	H
									H
									H
									H
									H
	3702	-57.57	-13	-44.57	-78.4	-64.14	1.67	8.24	V
	5556	-55.27	-13	-42.27	-80.41	-62.34	2.66	9.72	V
	7408	-52.92	-13	-39.92	-80.77	-62.08	2.46	11.62	V
									V
									V
									V
									V
Middle	3762	-57.55	-13	-44.55	-78.31	-64.18	1.69	8.31	H
	5640	-55.34	-13	-42.34	-80.72	-62.39	2.71	9.76	H
	7520	-52.71	-13	-39.71	-80.52	-62.1	2.42	11.81	H
									H
									H
									H
									H
	3762	-57.39	-13	-44.39	-78.17	-64.02	1.69	8.31	V
	5640	-55.50	-13	-42.50	-80.86	-62.55	2.71	9.76	V
	7520	-52.35	-13	-39.35	-80.41	-61.74	2.42	11.81	V
									V
									V
									V
									V



Highest	3816	-58.21	-13	-45.21	-78.89	-64.89	1.70	8.38	H
	5722	-55.14	-13	-42.14	-80.73	-62.18	2.75	9.79	H
	7630	-52.70	-13	-39.70	-80.76	-62.19	2.39	11.88	H
									H
									H
									H
									H
	3816	-58.38	-13	-45.38	-79.13	-65.06	1.70	8.38	V
	5722	-54.92	-13	-41.92	-80.5	-61.96	2.75	9.79	V
	7630	-52.16	-13	-39.16	-80.48	-61.65	2.39	11.88	V
									V
									V
									V
									V

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

**WCDMA Band IV**

WCDMA Band IV									
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	3426	-57.29	-13	-44.29	-77.99	-63.38	1.58	7.67	H
	5136	-56.35	-13	-43.35	-80.19	-63.63	2.42	9.70	H
	6852	-53.76	-13	-40.76	-80.76	-61.74	2.64	10.62	H
									H
									H
									H
									H
	3426	-57.32	-13	-44.32	-78.05	-63.41	1.58	7.67	V
	5136	-56.44	-13	-43.44	-80.27	-63.72	2.42	9.70	V
	6852	-54.17	-13	-41.17	-81.12	-62.15	2.64	10.62	V
									V
									V
									V
									V
Middle	3468	-56.83	-13	-43.83	-77.77	-63.09	1.59	7.86	H
	5196	-56.44	-13	-43.44	-80.55	-63.69	2.45	9.70	H
	6930	-53.67	-13	-40.67	-80.86	-61.77	2.61	10.72	H
									H
									H
									H
									H
	3468	-56.95	-13	-43.95	-77.83	-63.21	1.59	7.86	V
	5196	-56.34	-13	-43.34	-80.27	-63.59	2.45	9.70	V
	6930	-54.11	-13	-41.11	-81.32	-62.21	2.61	10.72	V
									V
									V
									V
									V



Highest	3504	-56.86	-13	-43.86	-77.96	-63.26	1.61	8.00	H
	5256	-56.31	-13	-43.31	-80.6	-63.53	2.48	9.70	H
	7008	-53.82	-13	-40.82	-81.14	-62.05	2.59	10.82	H
									H
									H
									H
									H
	3504	-56.62	-13	-43.62	-77.53	-63.02	1.61	8.00	V
	5256	-56.36	-13	-43.36	-80.5	-63.58	2.48	9.70	V
	7008	-53.83	-13	-40.83	-81.2	-62.06	2.59	10.82	V
									V
									V
									V
									V

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