NVLAP TESTING
NVLAP LAB CODE 600338-0

BACL Bay Area Compliance Labs Corp.

FCC PART 27

FCC PART 22H, PART 24E, PART 90

TEST REPORT

For

WISEASY TECHNOLOGY PTE. LTD.

70 Anson Road, #18-02, Hub Synergy Point, Singapore 079905

FCC ID: 2BFPO-R010

Report Type:	**Product Name:**
Original Report	Smart Reader

Report Number:	RKSA250928001-00G
Report Date:	2025-11-06
Reviewed By:	Bard Liu
Approved By:	Kyle Xu
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Govemment.

TABLE OF CONTENTS

REPORT REVISION HISTORY **4**

GENERAL INFORMATION **5**

PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 5
OBJECTIVE 6
TEST METHODOLOGY 6
MEASUREMENT UNCERTAINTY 7
TEST FACILITY 7

SYSTEM TEST CONFIGURATION **8**

JUSTIFICATION 8
CHANNEL LIST 8
EQUIPMENT MODIFICATIONS 10
SUPPORT EQUIPMENT LIST AND DETAILS 10
EXTERNAL I/O CABLE 10
BLOCK DIAGRAM OF TEST SETUP 10

TEST EQUIPMENT LIST **12**

SUMMARY OF TEST RESULTS **14**

FCC §1.1307(B) & §2.1093 - RF EXPOSURE **15**

APPLICABLE STANDARD 15

FCC §2.1047 - MODULATION CHARACTERISTIC **16**

FCC §2.1046; § 22.913 (A); §24.232 (C); §27.50 (C) (D) (H);§90.635 (B) - RF OUTPUT POWER **17**

APPLICABLE STANDA90DS 17
TEST PROCEDURE 17
TEST DATA: SEE APPENDIX A 17

FCC §2.1049, §22.917, §22.905 &§24.238, §27.53, §90.209 - OCCUPIED BANDWIDTH **18**

APPLICABLE STANDARDS 18
TEST PROCEDURE 18
TEST DATA: SEE APPENDIX A & APPENDIX B 18

FCC § 2.1051; § 22.917 (A); § 24.238 (A); §27.53 (G) (H) (M); § 90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS **19**

APPLICABLE STANDARDS 19
TEST PROCEDURE 20
TEST DATA: SEE APPENDIX A & APPENDIX D 20

FCC § 2.1053; § 22.917 (A); § 24.238 (A) & §27.53 (G) (H) (M); § 90.691 - SPURIOUS RADIATED EMISSIONS **21**

APPLICABLE STANDARDS 21
TEST PROCEDURE 22
TEST DATA: SEE APPENDIX A 22

FCC § 22.917 (A); § 24.238 (A); §27.53 (G) (H) (M); § 90.691 - BAND EDGES **23**

APPLICABLE STANDARDS 23
TEST PROCEDURE 24
TEST DATA: SEE APPENDIX A&C 24

FCC §2.1055; §22.355; §24.235; §27.54; §90.213 - FREQUENCY STABILITY **25**

APPLICABLE STANDARDS 25
TEST PROCEDURE 26
TEST DATA: SEE APPENDIX A 26

EUT PHOTOGRAPHS **27**

TEST SETUP PHOTOGRAPHS **28**

APPENDIX A - TEST DATA **29**

RF OUTPUT POWER 29
OCCUPIED BANDWIDTH 62
SPURIOUS EMISSIONS AT ANTENNA TERMINALS 73
SPURIOUS RADIATED EMISSIONS 96
BAND EDGES 122
FREQUENCY STABILITY 130

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA250928001-00G	R1V1	2025-11-06	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	WISEASY TECHNOLOGY PTE. LTD.
Tested Model:	R010
Product Name:	Smart Reader
Power Supply:	DC 5 V charging by adapter or DC 3.85 V powered by battery
Maximum Conducted Output Power(Main Antenna) :	GPRS 850: 31.69 dBm; EGPRS 850: 25.94 dBm GPRS 1900: 27.60 dBm; EGPRS 1900: 23.61 dBm WCDMA Band II: 22.53 dBm; Band IV: 22.76 dBm; Band V: 23.61 dBm LTE: Band 2: 22.98 dBm; Band 4: 23.2 dBm Band 5: 22.61 dBm; Band 7: 21.77 dBm Band 12: 23.19 dBm; Band 17: 23.12 dBm; Band 25: 22.65 dBm; Band 26 (814-824 MHz): 23.6 dBm Band 26 (824-849 MHz): 22.96 dBm Band 41: 21.80 dBm; Band 66: 23.27 dBm
RF Function:	GPRS/EGPRS, WCDMA, LTE
Operating Band/Frequency:	GPRS/EGPRS 850: 824-849 MHz(TX), 869-894 MHz(RX) GPRS/EGPRS 1900: 1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band II: 1850-1910 MHz(TX), 1930-1990 MHz(RX) WCDMA Band IV: 1710-1755 MHz(TX), 2110-2155 MHz(RX) WCDMA Band V: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX), 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX), 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX), 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX), 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX), 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX), 734-746 MHz(RX) LTE Band 25: 1850-1915 MHz(TX), 1930-1995 MHz(RX) LTE Band 26: 814-849 MHz(TX), 859-894 MHz(RX) LTE Band 41: 2496-2690 MHz MHz(TX), 2496-2690 MHz MHz(RX) LTE Band 66: 1710-1780 MHz(TX), 2110-2200 MHz(RX)
Modulation Type:	GPRS/EGPRS: GMSK, 8PSK WCDMA: BPSK, QPSK, 16QAM LTE: QPSK, 16QAM
Antenna Type:	FPC Antenna

★Maximum Antenna Gain (Main Antenna):	GPRS/EGPRS 850: -0.63 dBi GPRS/EGPRS 1900: 4.19 dBi WCDMA Band II : 4.19 dBi WCDMA Band IV: 0.72 dBi WCDMA Band V: -0.63 dBi LTE Band 2: 4.19 dBi LTE Band 4: 0.72 dBi LTE Band 5: -0.63 dBi LTE Band 7: 1.8 dBi LTE Band 12: -4.18 dBi LTE Band 17: -4.18 dBi LTE Band 25: 4.19 dBi LTE Band 26: -0.63 dBi LTE Band 41: 1.8 dBi LTE Band 66: 1.47 dBi

Adapter-1 Information:
Model: TPA-418G050100UU01
Input: 100-240V 50/60Hz, 0.3A
Output: 5.0 V, 1.0A 5.0W

Adapter-2 Information:
Model: TPA-418G050200UU01
Input: 100-240V 50/60Hz, 0.3A
Output: 5.0 V, 2.0A 10.0W

Note: The maximum antenna gain is provided by the applicant.

All measurement and test data in this report was gathered from production sample serial number: RKSA250928001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-09-28.)

Objective

This type approval report is prepared for *WISEASY TECHNOLOGY PTE. LTD.* in accordance with Part 2, Part 22-Subpart H and Part 24-Subpart E, Part 27 and Part 90 of the Federal Communication Commission's rules.

The objective is to determine the compliance of EUT with FCC rules for output power, modulation characteristic, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, and band edge.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-Part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Part 27 – Miscellaneous wireless communications services
Part 90- PRIVATE LAND MOBILE RADIO SERVICES

Applicable Standards: ANSI C63.26-2015.

Measurement Uncertainty

Item		Uncertainty
RF Frequency		$0.082*10^{-7}$
RF output power, conducted		0.73dB
RF conducted test with spectrum		0.9dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	5.91dB
	1GHz~6GHz	4.68dB
	6GHz~18GHz	4.92dB
	18GHz~40GHz	5.21dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%
Supply voltages		±0.4%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.26-2015.

The final qualification test was performed with the EUT operating at normal mode.

Channel List

Mode	Test Frequency (MHz)		
	Low	Middle	High
GPRS/EGPRS 850	824.2	836.6	848.8
GPRS/EGPRS 1900	1850.2	1880	1909.8
WCDMA Band II	1852.4	1880	1907.6
WCDMA Band IV	1712.4	1732.6	1752.6
WCDMA Band V	826.4	836.6	846.6

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE Band 2	1.4	1850.7	1880.0	1909.3
	3	1851.5	1880.0	1908.5
	5	1852.5	1880.0	1907.5
	10	1855.0	1880.0	1905.0
	15	1857.5	1880.0	1902.5
	20	1860.0	1880.0	1900.0
LTE Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
LTE Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
LTE Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0
LTE Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
LTE Band 17	5	706.5	710.0	713.5
	10	709.0	710.0	711.0

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	Middle	High
LTE Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0
LTE Band 26 Upper	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829	836.5	844
	15	831.5	836.5	841.5
LTE Band 41	5	2498.5	2593.0	2687.5
	10	2501.0	2593.0	2685.0
	15	2503.5	2593.0	2682.5
	20	2506.0	2593.0	2680.0
LTE Band 66	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
	5	1712.5	1745.0	1777.5
	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0

Frequency Band	Bandwidth (MHz)	Test Frequency (MHz)		
		Low	High	Cross
LTE Band 26 Lower	1.4	814.7	823.3	824
	3	815.5	822.5	824
	5	816.5	821.5	824
	10	819	/	824
	15	821.5	/	824

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

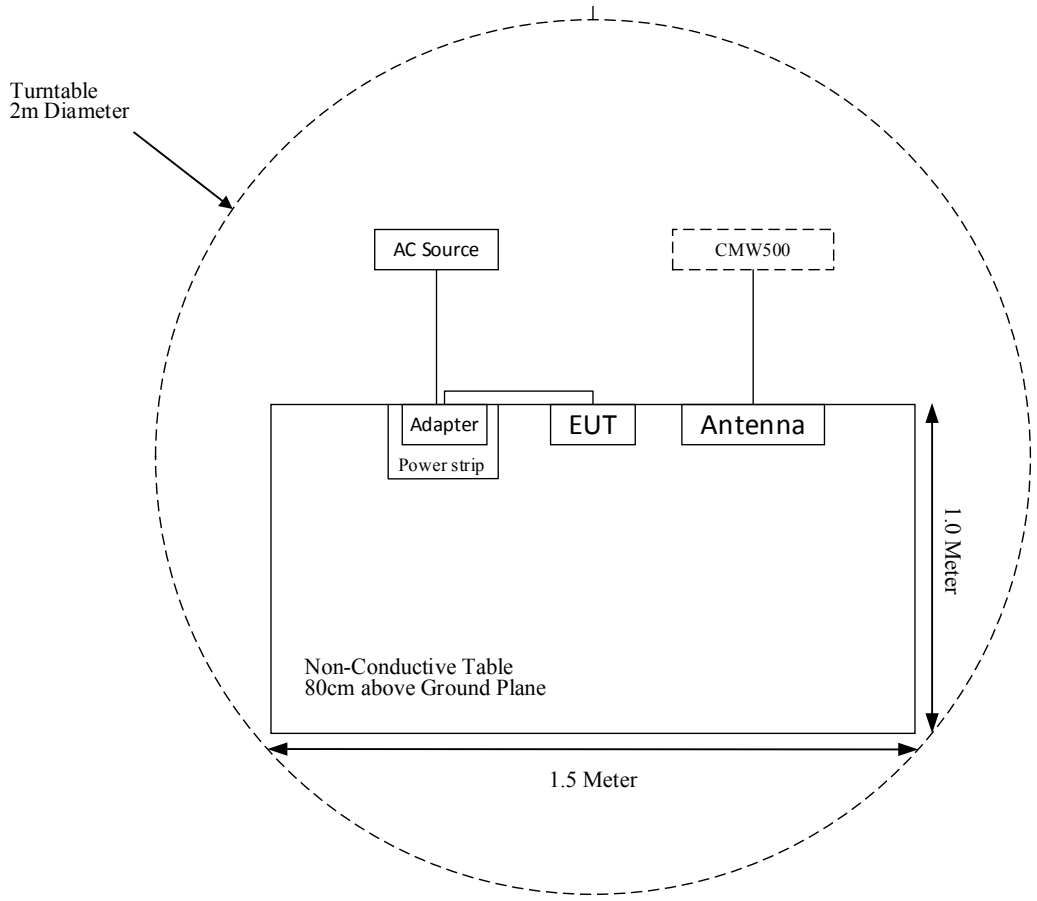
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478
/	Power strip	/	/

External I/O Cable

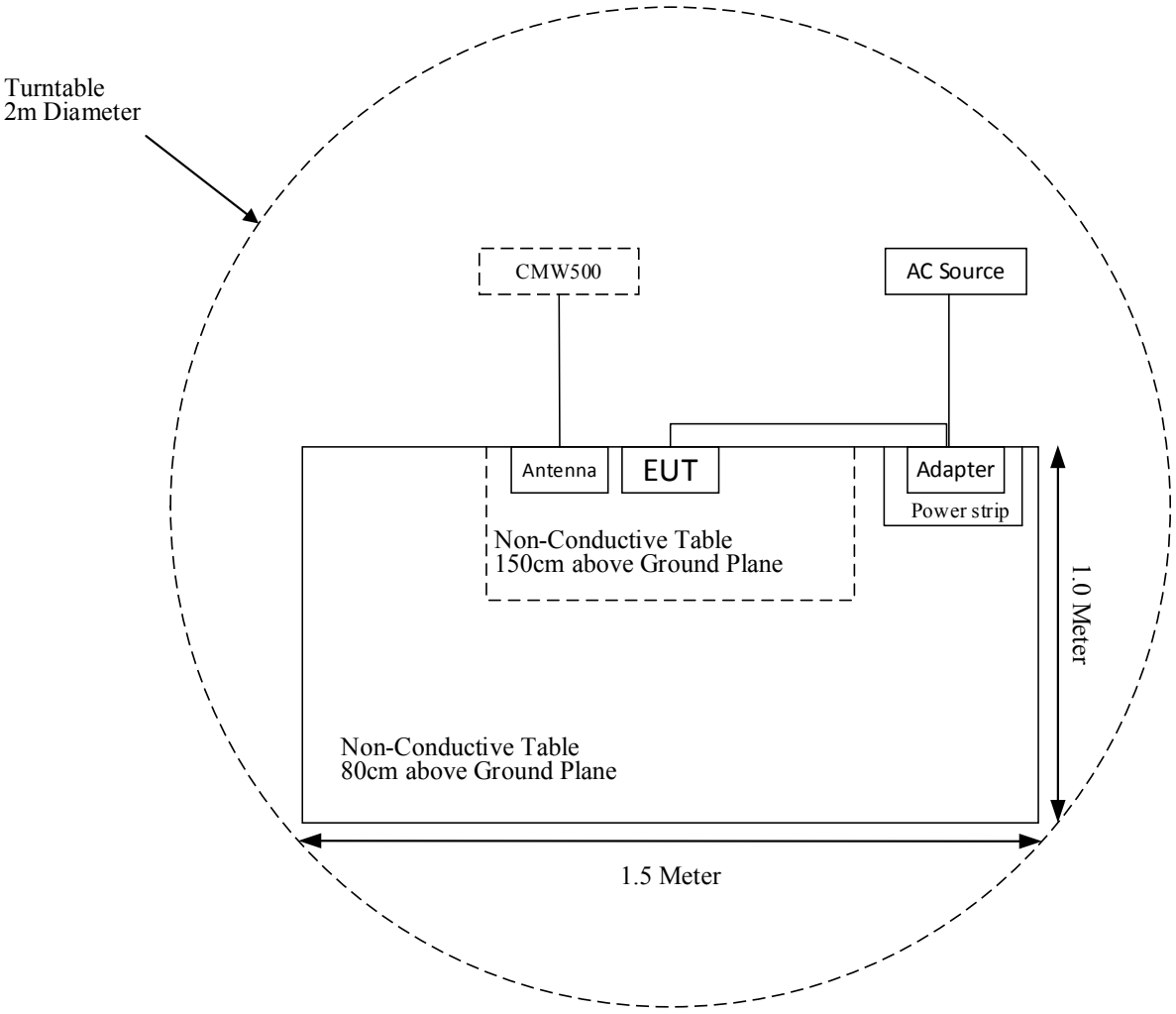
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	EUT	Adapter
Power Cable 2	1.0	Power strip	AC Source

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions (Above 1 GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Keysight	Signal Generator	N5183A	MY47420304	2025-04-08	2026-04-07
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
Sonoma Instrument	Amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-7	007	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Keysight	Signal Generator	N5183A	MY47420304	2025-04-08	2026-04-07
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3115	6229	2025-01-04	2026-01-05
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
ETS-LINDGREN	Horn Antenna	3116	84159	2024-12-08	2025-12-07
A.H.Systems,inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
EM Electronics Corporation	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08
Wi	Band reject filter	SN1	WRCGV5-804-824-849-869-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN1	WRCGV6-1830-1850-1910-1930-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN1	WRCGV8-1695-1710-1755-1770-30SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN3	WRCJV8-2450-2500-2570-2620-40SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN2	WRCT16-697-699-716-718-60SS	2025-04-08	2026-04-07
Wi	Band reject filter	SN2	WRCJV8-2436-2496-2690-2750-25SS	2025-04-08	2026-04-07

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2025-04-09	2026-04-08
BACL	Temperature & Humidity Chamber	BTH-150	30023	2025-04-09	2026-04-08
EAST	Regulated DC Power Supply	MCH-303D-II	14070562	2025-04-09	2026-04-08
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
Eastsheep	Attenuator	2W-N-JK-18G	20dB-01	2025-04-08	2026-04-07
MACOM	Power Splitter	2090-6214-00	96341	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Unknown	RF Cable	RF Cable C01	C01	Each Time	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1046; § 22.913 (a); §24.232 (c); §27.50 (c)(d) (h) §90.635 (b)	RF Output Power	Compliant
§ 2.1047	Modulation Characteristics	Not Applicable
§2.1049; §22.905; §22.917; §24.238; §27.53; §90.209	Occupied Bandwidth	Compliant
§2.1051; §22.917 (a); §24.238 (a); §27.53 (g) (h) (m); §90.691	Spurious Emissions at Antenna Terminal	Compliant
§2.1053; §22.917 (a) §24.238 (a); §27.53 (g) (h) (m);§90.691	Spurious Radiated Emissions	Compliant
§22.917 (a); §24.238 (a); §27.53 (g) (h) (m); §90.691	Band Edge	Compliant
§2.1055; §22.355; §24.235; §27.54; §90.213	Frequency stability	Compliant
§1.1307(b)(1)& §2.1093	RF EXPOSURE	Compliant

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1307, §2.1093.

Measurement Result

Result: Please refer to the SAR report: RKSA250928001-20B.

FCC §2.1047 - MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E, Part 27, Part 90 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC §2.1046; § 22.913 (a); §24.232 (c); §27.50 (c) (d) (h);§90.635 (b) - RF OUTPUT POWER

Applicable Standa90ds

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45dBm).

According to FCC §2.1046 and §24.232 (c), mobile and portable stations are limited to 2 watts (33dBm) EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(c), Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP

According to §27.50(d), the maximum EIRP must not exceed 1Watts (30dBm) for 1710-1780MHz.

According to §27.50(h) (2), Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

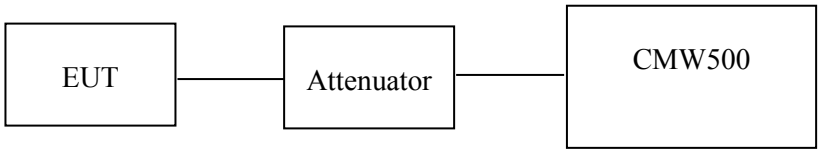
According to FCC §2.1046 and §90.635 (b), The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure

Conducted method:

The RF output of the transmitter was connected to the CMW500 through sufficient attenuation.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB)

Test Data: See Appendix A

FCC §2.1049, §22.917, §22.905 &§24.238, §27.53, §90.209 - OCCUPIED BANDWIDTH

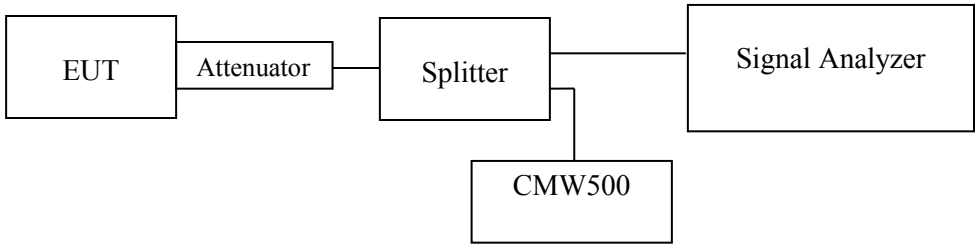
Applicable Standards

FCC 47 §2.1049, §22.917, §22.905 & §24.238, §27.53 and §90.209.

Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation. The 26 dB & 99% bandwidth was recorded.

Note：The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator,which was offset into the Spectrum Analyzer.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) +Power Splitter（4.5dB）

Test Data: See Appendix A & Appendix B

FCC § 2.1051; § 22.917 (a); § 24.238 (a); §27.53 (g) (h) (m); § 90.691 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standards

FCC §2.1051, §22.917(a), §24.238(a), §27.53 (g) (h) (m) and § 90.691.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

According to §22.917(a),the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

27.53 (g)
For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

27.53 (h) AWS emission limits —
(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

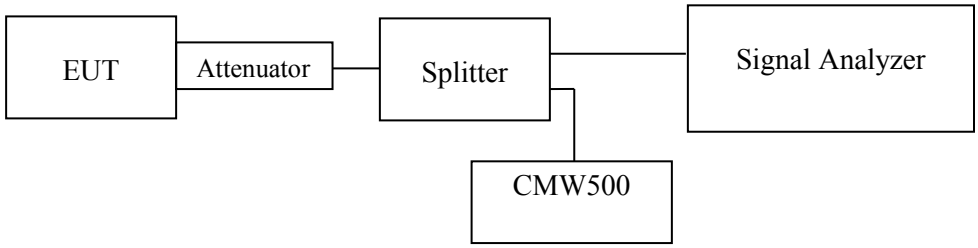
27.53m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 90.691
Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz & 1MHz for above 1GHz. sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Note：The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator,which was offset into the Spectrum Analyzer.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) +Power Splitter（4.5dB）

Test Data: See Appendix A & Appendix D

FCC § 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (g) (h) (m); § 90.691 - SPURIOUS RADIATED EMISSIONS

Applicable Standards

FCC § 2.1053, §22.917(a) and § 24.238(a), §90.691 and § 27.53 (g) (h) (m)

22.917 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

24.238 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

27.53 (g)
For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

27.53 (h) AWS emission limits —
(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

27.53m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

Test Procedure

According to ANSI C63.26-2015 Section 5.5.3:

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Test Data: See Appendix A

FCC § 22.917 (a); § 24.238 (a); § 27.53 (g) (h) (m); § 90.691 - BAND EDGES

Applicable Standards

22.917 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

24.238 (a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

27.53 (g)
For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed

27.53 (h) AWS emission limits —
(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

27.53m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

§ 90.691(a)
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

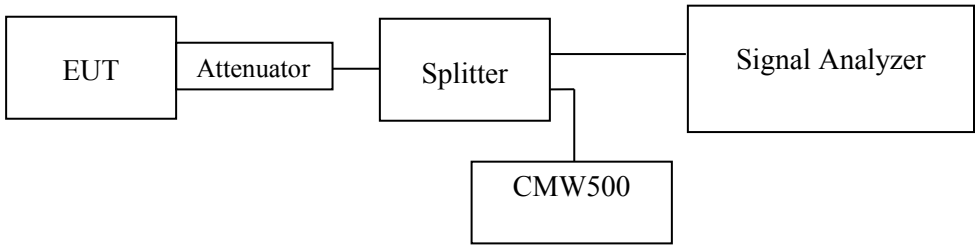
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency.

Note：The 15dB is the Insertion loss of the RF cable, Power Splitter, Attenuator,which was offset into the Spectrum Analyzer.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) +Power Splitter（4.5dB）

Test Data: See Appendix A&C

FCC §2.1055; §22.355; §24.235; §27.54; §90.213 - FREQUENCY STABILITY

Applicable Standards

FCC § 2.1055, §22.355, §24.235, §27.54 and § 90.213.

According to FCC §2.1055, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

According to §27.54 Frequency stability, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§90.213(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table. Table 1 to § 90.213(a).

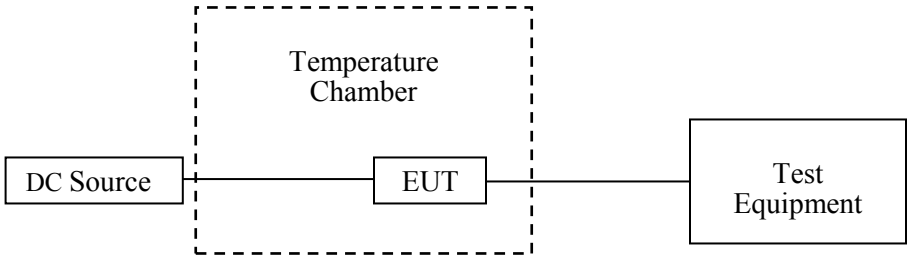
Test Procedure

According to ANSI C63.26-2015 Section 5.6:

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data: See Appendix A

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT G - TEST SETUP PHOTOGRAPHS.

APPENDIX A - TEST DATA

RF OUTPUT POWER

Environmental Conditions & Test Information

Test Date:	2025-09-30 to 2025-10-10
Temperature:	22.4-23.9℃
Relative Humidity:	48-53 %
ATM Pressure:	100.9-101.3 kPa
Test Result:	Pass
Test Engineer:	Jason Lu

GPRS/EGPRS 850 Band

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	128	824.2	31.69	30.24	28.91	27.62	28.91	27.46	26.13	24.84	38.45
	190	836.6	31.66	30.20	28.80	27.37	28.88	27.42	26.02	24.59	38.45
	251	848.8	31.67	30.16	28.77	27.40	28.89	27.38	25.99	24.62	38.45

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				ERP (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	128	824.2	25.94	25.08	23.86	22.61	23.16	22.30	21.08	19.83	38.45
	190	836.6	25.89	25.05	23.72	22.49	23.11	22.27	20.94	19.71	38.45
	251	848.8	25.28	24.93	23.66	22.47	22.50	22.15	20.88	19.69	38.45

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
Antenna Gain(dBd) = Antenna Gain(dBi)-2.15

GPRS/EGPRS 1900 Band

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
GPRS	512	1850.2	27.58	26.33	24.86	23.34	31.77	30.52	29.05	27.53	33
	661	1880	27.44	26.24	24.77	23.36	31.63	30.43	28.96	27.55	33
	810	1909.8	27.6	26.14	24.75	23.32	31.79	30.33	28.94	27.51	33

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)				EIRP (dBm)				Limit (dBm)
			1 slot	2 slots	3 slots	4 slots	1 slot	2 slots	3 slots	4 slots	
EGPRS	512	1850.2	23.43	22.76	21.56	20.37	27.62	26.95	25.75	24.56	33
	661	1880	23.55	22.87	21.61	20.42	27.74	27.06	25.80	24.61	33
	810	1909.8	23.61	22.96	21.66	20.5	27.80	27.15	25.85	24.69	33

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)

WCDMA Band II

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 2)	RMC12.2k		22.49	22.53	22.17	26.68	26.72	26.36
	HSDPA	1	22.41	22.36	22.01	26.60	26.55	26.20
		2	22.32	22.50	22.12	26.51	26.69	26.31
		3	21.99	22.14	21.81	26.18	26.33	26.00
		4	22.13	22.28	21.94	26.32	26.47	26.13
	HSUPA	1	22.31	22.41	21.99	26.50	26.60	26.18
		2	21.17	20.86	20.56	25.36	25.05	24.75
		3	21.95	21.77	22.07	26.14	25.96	26.26
		4	21.16	20.69	20.31	25.35	24.88	24.50
		5	22.43	22.36	21.98	26.62	26.55	26.17
	HSPA+	1	20.03	20.32	19.97	24.22	24.51	24.16

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤33dBm

WCDMA Band V

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 5)	RMC12.2k		23.61	23.17	23.44	20.83	20.39	20.66
	HSDPA	1	23.46	23.1	23.35	20.68	20.32	20.57
		2	23.59	23.15	23.25	20.81	20.37	20.47
		3	23.24	22.81	22.94	20.46	20.03	20.16
		4	23.37	22.7	22.94	20.59	19.92	20.16
	HSUPA	1	23.42	23.03	23.25	20.64	20.25	20.47
		2	22.44	21.33	21.96	19.66	18.55	19.18
		3	22.73	22.24	23.25	19.95	19.46	20.47
		4	22.18	22.06	21.77	19.4	19.28	18.99
		5	23.6	23.13	23.38	20.82	20.35	20.6
	HSPA+	1	21.49	20.98	21.02	18.71	18.2	18.24

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
Antenna Gain(dBd) = Antenna Gain(dBi)-2.15
Limit: ERP≤38.45dBm

WCDMA Band IV

Mode	Test Mode	3GPP Sub Test	Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
WCDMA (Band 4)	RMC12.2k		22.76	22.47	22.60	23.48	23.19	23.32
	HSDPA	1	22.73	22.31	22.55	23.45	23.03	23.27
		2	22.69	22.44	22.49	23.41	23.16	23.21
		3	22.28	22.16	22.19	23.00	22.88	22.91
		4	22.49	22.10	22.15	23.21	22.82	22.87
	HSUPA	1	22.62	22.35	22.48	23.34	23.07	23.20
		2	21.46	21.09	20.69	22.18	21.81	21.41
		3	22.72	21.70	21.63	23.44	22.42	22.35
		4	20.81	21.00	20.60	21.53	21.72	21.32
		5	22.59	22.40	22.53	23.31	23.12	23.25
	HSPA+	1	20.62	20.10	20.44	21.34	20.82	21.16

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤30dBm

LTE Band 2

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.22	13.96	21.79	26.41	18.15	25.98
		1#3	22.11	14.1	21.86	26.30	18.29	26.05
		1#5	22.15	14.04	21.72	26.34	18.23	25.91
		3#0	21.93	18.83	22.03	26.12	23.02	26.22
		3#1	21.98	18.84	21.96	26.17	23.03	26.15
		3#3	22.03	18.77	21.96	26.22	22.96	26.15
		6#0	21.18	21.27	20.92	25.37	25.46	25.11
	16QAM	1#0	21.27	14.23	20.66	25.46	18.42	24.85
		1#3	21.38	14.32	20.79	25.57	18.51	24.98
		1#5	21.13	14.27	20.7	25.32	18.46	24.89
		3#0	20.82	19.03	20.83	25.01	23.22	25.02
		3#1	21	19.04	20.9	25.19	23.23	25.09
		3#3	21.06	18.98	20.66	25.25	23.17	24.85
		6#0	19.84	20.11	19.91	24.03	24.30	24.10
3	QPSK	1#0	22.08	22.23	21.95	26.27	26.42	26.14
		1#8	22.26	22.43	21.95	26.45	26.62	26.14
		1#14	22.33	22.29	21.91	26.52	26.48	26.10
		8#0	21.15	21.34	21.15	25.34	25.53	25.34
		8#7	21.2	21.33	21.05	25.39	25.52	25.24
		8#4	21.18	21.37	21.04	25.37	25.56	25.23
		15#0	21.19	21.31	21.01	25.38	25.50	25.20
	16QAM	1#0	21.09	21.31	21.18	25.28	25.50	25.37
		1#8	21	21.47	21.21	25.19	25.66	25.40
		1#14	20.96	21.26	21.19	25.15	25.45	25.38
		8#0	20.28	19.95	20.08	24.47	24.14	24.27
		8#7	20.21	19.96	20.01	24.40	24.15	24.20
		8#4	20.3	19.95	19.98	24.49	24.14	24.17
		15#0	20.19	20.53	19.99	24.38	24.72	24.18

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	21.99	22.19	21.62	26.18	26.38	25.81
		1#12	22.23	22.79	21.83	26.42	26.98	26.02
		1#24	21.88	22.17	21.35	26.07	26.36	25.54
		12#0	21.17	21.32	21.11	25.36	25.51	25.30
		12#7	21.23	21.35	21.08	25.42	25.54	25.27
		12#13	21.14	21.3	21.03	25.33	25.49	25.22
		25#0	21.17	21.28	21.03	25.36	25.47	25.22
	16QAM	1#0	20.56	20.48	21.11	24.75	24.67	25.30
		1#12	21.16	20.82	21.26	25.35	25.01	25.45
		1#24	20.74	20.31	20.56	24.93	24.50	24.75
		12#0	20.08	20.02	19.79	24.27	24.21	23.98
		12#7	20.13	20.44	20.01	24.32	24.63	24.20
		12#13	20.09	20.17	19.96	24.28	24.36	24.15
		25#0	20.16	20.29	20.12	24.35	24.48	24.31
10	QPSK	1#0	22.08	22.23	22.12	26.27	26.42	26.31
		1#25	22.36	22.57	22.13	26.55	26.76	26.32
		1#49	22.04	22.1	21.83	26.23	26.29	26.02
		25#0	21.24	21.23	21.03	25.43	25.42	25.22
		25#12	21.25	21.32	21.01	25.44	25.51	25.20
		25#25	21.29	21.37	20.93	25.48	25.56	25.12
		50#0	21.21	21.39	21.04	25.40	25.58	25.23
	16QAM	1#0	21.18	21.52	21.27	25.37	25.71	25.46
		1#25	20.98	21.68	21.02	25.17	25.87	25.21
		1#49	20.59	21.13	20.68	24.78	25.32	24.87
		25#0	20.39	20.27	20.38	24.58	24.46	24.57
		25#12	20.52	20.41	20.25	24.71	24.60	24.44
		25#25	20.55	20.34	20.04	24.74	24.53	24.23
		50#0	20.14	20.16	20.06	24.33	24.35	24.25

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	22.32	22.45	22.14	26.51	26.64	26.33
		1#37	22.98	22.68	22.25	27.17	26.87	26.44
		1#74	22.16	22.21	21.8	26.35	26.40	25.99
		36#0	21.32	21.32	21.16	25.51	25.51	25.35
		36#20	21.29	21.3	21.01	25.48	25.49	25.20
		36#39	21.17	21.38	21	25.36	25.57	25.19
		75#0	21.31	21.32	21.06	25.50	25.51	25.25
	16QAM	1#0	21.22	21.32	20.9	25.41	25.51	25.09
		1#37	21.78	21.98	21.3	25.97	26.17	25.49
		1#74	21.37	21.06	20.4	25.56	25.25	24.59
		36#0	20.18	20.34	20.1	24.37	24.53	24.29
		36#20	20.34	20.33	20.26	24.53	24.52	24.45
		36#39	20.34	20.41	20.02	24.53	24.60	24.21
		75#0	20.27	20.32	20.17	24.46	24.51	24.36
20	QPSK	1#0	22	22.7	22.07	26.19	26.89	26.26
		1#49	22.02	22.34	21.75	26.21	26.53	25.94
		1#99	22.67	21.75	20.83	26.86	25.94	25.02
		50#0	22.34	21.87	20.8	26.53	26.06	24.99
		50#24	22.37	21.65	20.41	26.56	25.84	24.60
		50#50	22.25	21.36	20.16	26.44	25.55	24.35
		100#0	22.32	21.62	20.47	26.51	25.81	24.66
	16QAM	1#0	21.11	21.69	19.99	25.30	25.88	24.18
		1#49	22.27	21.84	20.89	26.46	26.03	25.08
		1#99	21.53	20.86	19.88	25.72	25.05	24.07
		50#0	21.26	20.97	19.78	25.45	25.16	23.97
		50#24	21.25	20.73	19.45	25.44	24.92	23.64
		50#50	21.1	20.32	19.22	25.29	24.51	23.41
		100#0	21.16	20.61	19.51	25.35	24.80	23.70

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤33dBm

LTE Band 4

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.09	14.21	22.16	22.81	14.93	22.88
		1#3	22.30	14.23	22.24	23.02	14.95	22.96
		1#5	22.23	14.16	22.13	22.95	14.88	22.85
		3#0	22.09	18.89	22.25	22.81	19.61	22.97
		3#1	22.13	18.98	22.3	22.85	19.70	23.02
		3#3	22.09	18.87	22.27	22.81	19.59	22.99
		6#0	20.91	21.26	21.15	21.63	21.98	21.87
	16QAM	1#0	21.15	14.32	20.83	21.87	15.04	21.55
		1#3	21.11	14.45	20.93	21.83	15.17	21.65
		1#5	21.11	14.36	20.9	21.83	15.08	21.62
		3#0	21	19.19	21.29	21.72	19.91	22.01
		3#1	21.1	19.28	21.17	21.82	20.00	21.89
		3#3	20.85	19.18	21.1	21.57	19.90	21.82
		6#0	19.63	19.96	20.24	20.35	20.68	20.96
3	QPSK	1#0	22.38	22.55	22.32	23.10	23.27	23.04
		1#8	22.27	22.34	22.15	22.99	23.06	22.87
		1#14	22.41	22.45	22.32	23.13	23.17	23.04
		8#0	21	21.35	21.24	21.72	22.07	21.96
		8#4	21.03	21.26	21.18	21.75	21.98	21.90
		8#7	21.01	21.28	21.13	21.73	22.00	21.85
		15#0	20.94	21.27	21.11	21.66	21.99	21.83
	16QAM	1#0	20.51	21.29	21.17	21.23	22.01	21.89
		1#8	20.86	21.53	21.12	21.58	22.25	21.84
		1#14	20.46	21.47	21.08	21.18	22.19	21.80
		8#0	19.83	20.25	20.23	20.55	20.97	20.95
		8#4	19.9	20.24	20.33	20.62	20.96	21.05
		8#7	19.88	20.25	20.27	20.60	20.97	20.99
		15#0	19.76	20.33	20.11	20.48	21.05	20.83

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.08	22.36	22.22	22.80	23.08	22.94
		1#12	22.29	22.52	22.78	23.01	23.24	23.50
		1#24	21.86	22.27	21.99	22.58	22.99	22.71
		12#0	21.1	21.27	21.4	21.82	21.99	22.12
		12#7	21.14	21.38	21.35	21.86	22.10	22.07
		12#13	21.11	21.39	21.27	21.83	22.11	21.99
		25#0	21.12	21.44	21.36	21.84	22.16	22.08
	16QAM	1#0	20.64	21.15	21.38	21.36	21.87	22.10
		1#12	21	20.95	21.45	21.72	21.67	22.17
		1#24	20.65	20.63	21.08	21.37	21.35	21.80
		12#0	19.87	20.25	20.22	20.59	20.97	20.94
		12#7	20	20.37	20.46	20.72	21.09	21.18
		12#13	19.93	20.31	20.37	20.65	21.03	21.09
		25#0	20.04	20.4	20.28	20.76	21.12	21.00
10	QPSK	1#0	22.15	22.4	22.65	22.87	23.12	23.37
		1#25	22.35	22.66	22.86	23.07	23.38	23.58
		1#49	22.11	22.31	22.37	22.83	23.03	23.09
		25#0	21.1	21.29	21.49	21.82	22.01	22.21
		25#12	21.2	21.39	21.4	21.92	22.11	22.12
		25#25	21.15	21.35	21.32	21.87	22.07	22.04
		50#0	21.15	21.34	21.42	21.87	22.06	22.14
	16QAM	1#0	20.85	21.35	21.19	21.57	22.07	21.91
		1#25	20.91	21.79	21.59	21.63	22.51	22.31
		1#49	21.08	21.27	21.36	21.80	21.99	22.08
		25#0	20.3	20.2	20.43	21.02	20.92	21.15
		25#12	20.23	20.36	20.59	20.95	21.08	21.31
		25#25	20.3	20.36	20.27	21.02	21.08	20.99
		50#0	20.08	20.42	20.16	20.80	21.14	20.88

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	22.57	22.52	22.7	23.29	23.24	23.42
		1#37	23.2	23.17	23.04	23.92	23.89	23.76
		1#74	22.39	22.47	22.45	23.11	23.19	23.17
		36#0	21.19	21.38	21.55	21.91	22.10	22.27
		36#20	21.22	21.34	21.49	21.94	22.06	22.21
		36#39	21.34	21.34	21.43	22.06	22.06	22.15
		75#0	21.18	21.34	21.46	21.90	22.06	22.18
	16QAM	1#0	21.46	21.39	21.38	22.18	22.11	22.10
		1#37	21.65	21.76	21.65	22.37	22.48	22.37
		1#74	21.42	21.5	20.97	22.14	22.22	21.69
		36#0	20.05	20.31	20.49	20.77	21.03	21.21
		36#20	20.03	20.07	20.42	20.75	20.79	21.14
		36#39	20.22	20.09	20.3	20.94	20.81	21.02
		75#0	20.29	20.27	20.39	21.01	20.99	21.11
20	QPSK	1#0	21.96	22.09	22.61	22.68	22.81	23.33
		1#49	22.17	22.12	22.96	22.89	22.84	23.68
		1#99	22.16	22.15	22.67	22.88	22.87	23.39
		50#0	21.16	21.26	21.59	21.88	21.98	22.31
		50#24	21.30	21.35	21.48	22.02	22.07	22.20
		50#50	21.23	21.33	21.48	21.95	22.05	22.20
		100#0	21.25	21.35	21.54	21.97	22.07	22.26
	16QAM	1#0	20.42	21.58	20.66	21.14	22.30	21.38
		1#49	20.87	21.55	21.45	21.59	22.27	22.17
		1#99	20.78	21.04	21.45	21.50	21.76	22.17
		50#0	19.98	20.43	20.43	20.70	21.15	21.15
		50#24	20.11	20.24	20.43	20.83	20.96	21.15
		50#50	20.10	20.26	20.41	20.82	20.98	21.13
		100#0	20.20	20.27	20.53	20.92	20.99	21.25

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤30dBm

LTE Band 5

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.23	21.31	20.87	19.45	18.53	18.09
		1#3	22.35	21.26	21.15	19.57	18.48	18.37
		1#5	22.21	21.25	20.87	19.43	18.47	18.09
		3#0	22.44	21.38	20.94	19.66	18.60	18.16
		3#1	22.61	21.39	20.84	19.83	18.61	18.06
		3#3	22.37	21.25	20.69	19.59	18.47	17.91
		6#0	21.37	20.41	19.81	18.59	17.63	17.03
	16QAM	1#0	21.13	20.11	20.02	18.35	17.33	17.24
		1#3	21.04	20.06	19.98	18.26	17.28	17.20
		1#5	21.23	20.11	19.87	18.45	17.33	17.09
		3#0	21.71	20.25	19.97	18.93	17.47	17.19
		3#1	21.13	20.32	20.09	18.35	17.54	17.31
		3#3	21.27	20.28	20.06	18.49	17.50	17.28
		6#0	20.54	19.02	18.75	17.76	16.24	15.97
3	QPSK	1#0	22.49	21.42	20.79	19.71	18.64	18.01
		1#8	22.47	21.2	20.76	19.69	18.42	17.98
		1#14	22.48	21.15	20.72	19.70	18.37	17.94
		8#0	21.53	20.37	19.95	18.75	17.59	17.17
		8#4	21.43	20.31	19.9	18.65	17.53	17.12
		8#7	21.33	20.25	19.86	18.55	17.47	17.08
		15#0	21.47	20.39	19.82	18.69	17.61	17.04
	16QAM	1#0	21.45	20.49	19.9	18.67	17.71	17.12
		1#8	21.15	20.21	19.89	18.37	17.43	17.11
		1#14	21.03	20.28	19.84	18.25	17.50	17.06
		8#0	20.41	19.41	18.99	17.63	16.63	16.21
		8#4	20.3	19.32	18.96	17.52	16.54	16.18
		8#7	20.23	19.34	18.8	17.45	16.56	16.02
		15#0	20.48	19.37	18.86	17.70	16.59	16.08

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.16	21.41	20.46	19.38	18.63	17.68
		1#12	22.25	21.75	20.84	19.47	18.97	18.06
		1#24	21.67	21.06	20.2	18.89	18.28	17.42
		12#0	21.46	20.42	20	18.68	17.64	17.22
		12#7	21.35	20.45	19.91	18.57	17.67	17.13
		12#13	21.23	20.19	19.82	18.45	17.41	17.04
		25#0	21.31	20.4	19.88	18.53	17.62	17.10
	16QAM	1#0	21.14	20.3	19.82	18.36	17.52	17.04
		1#12	21.33	19.93	19.84	18.55	17.15	17.06
		1#24	20.41	19.42	19.24	17.63	16.64	16.46
		12#0	20.52	19.31	18.94	17.74	16.53	16.16
		12#7	20.34	19.33	18.87	17.56	16.55	16.09
		12#13	20.26	19.27	18.72	17.48	16.49	15.94
		25#0	20.34	19.45	18.93	17.56	16.67	16.15
10	QPSK	1#0	22.39	21.98	21.13	19.61	19.20	18.35
		1#25	21.97	21.43	21.26	19.19	18.65	18.48
		1#49	21.46	21.15	20.7	18.68	18.37	17.92
		25#0	21.3	20.59	20.04	18.52	17.81	17.26
		25#12	21.13	20.46	20.04	18.35	17.68	17.26
		25#25	21.04	20.24	19.89	18.26	17.46	17.11
		50#0	21.19	20.4	19.95	18.41	17.62	17.17
	16QAM	1#0	21.28	20.73	20.19	18.50	17.95	17.41
		1#25	20.93	20.82	19.99	18.15	18.04	17.21
		1#49	20.08	20.53	19.18	17.30	17.75	16.40
		25#0	20.36	19.67	19.32	17.58	16.89	16.54
		25#12	20.13	19.62	19.02	17.35	16.84	16.24
		25#25	20.08	19.49	18.95	17.30	16.71	16.17
		50#0	20.15	19.27	19.12	17.37	16.49	16.34

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
Antenna Gain(dBd) = Antenna Gain(dBi)-2.15
Limit: ERP≤38.45dBm

LTE Band 7

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	21.04	20.58	20.82	22.84	22.38	22.62
		1#12	21.19	20.81	21.11	22.99	22.61	22.91
		1#24	21.02	20.53	20.81	22.82	22.33	22.61
		12#0	20.34	19.74	20.23	22.14	21.54	22.03
		12#7	20.3	19.77	20.28	22.10	21.57	22.08
		12#13	20.34	19.83	20.2	22.14	21.63	22.00
		25#0	20.29	19.77	20.25	22.09	21.57	22.05
	16QAM	1#0	20.19	19.64	20.02	21.99	21.44	21.82
		1#12	20.29	19.45	20.49	22.09	21.25	22.29
		1#24	19.49	18.83	19.66	21.29	20.63	21.46
		12#0	19.19	18.61	18.99	20.99	20.41	20.79
		12#7	19.24	18.59	19.35	21.04	20.39	21.15
		12#13	19.17	18.54	19.05	20.97	20.34	20.85
		25#0	19.37	18.64	19.47	21.17	20.44	21.27
10	QPSK	1#0	21.26	20.95	21.23	23.06	22.75	23.03
		1#25	21.32	21.07	21.48	23.12	22.87	23.28
		1#49	20.86	20.88	21.73	22.66	22.68	23.53
		25#0	20.35	19.86	20.26	22.15	21.66	22.06
		25#12	20.26	19.89	20.26	22.06	21.69	22.06
		25#25	20.17	19.92	20.26	21.97	21.72	22.06
		50#0	20.25	19.86	20.26	22.05	21.66	22.06
	16QAM	1#0	20.33	19.98	20.3	22.13	21.78	22.10
		1#25	20.09	20.14	20.34	21.89	21.94	22.14
		1#49	19.46	19.76	19.67	21.26	21.56	21.47
		25#0	19.37	18.95	19.33	21.17	20.75	21.13
		25#12	19.52	18.95	19.39	21.32	20.75	21.19
		25#25	19.44	18.98	19.41	21.24	20.78	21.21
		50#0	19.13	18.85	19.15	20.93	20.65	20.95

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	21.46	20.98	21.2	23.26	22.78	23.00
		1#37	21.77	20.91	21.7	23.57	22.71	23.50
		1#74	20.88	20.9	21.37	22.68	22.70	23.17
		36#0	20.38	19.7	20.15	22.18	21.50	21.95
		36#20	20.25	19.73	20.23	22.05	21.53	22.03
		36#39	20.12	19.91	20.24	21.92	21.71	22.04
		75#0	20.2	19.8	20.25	22.00	21.60	22.05
	16QAM	1#0	20.86	19.72	20.4	22.66	21.52	22.20
		1#37	20.68	19.66	20.38	22.48	21.46	22.18
		1#74	20.25	19.69	19.8	22.05	21.49	21.60
		36#0	19.13	18.7	19.15	20.93	20.50	20.95
		36#20	19.15	18.85	19.26	20.95	20.65	21.06
		36#39	18.96	18.88	19.21	20.76	20.68	21.01
		75#0	19.2	18.84	19.31	21.00	20.64	21.11
20	QPSK	1#0	21.11	20.52	21.22	22.91	22.32	23.02
		1#49	20.97	20.55	21.1	22.77	22.35	22.90
		1#99	20.48	20.7	21.21	22.28	22.50	23.01
		50#0	20.22	19.82	20.16	22.02	21.62	21.96
		50#24	20.07	19.78	20.1	21.87	21.58	21.90
		50#50	19.9	19.71	20.45	21.70	21.51	22.25
		100#0	20.07	19.79	20.11	21.87	21.59	21.91
	16QAM	1#0	19.94	20.13	19.65	21.74	21.93	21.45
		1#49	19.8	19.99	19.83	21.60	21.79	21.63
		1#99	19.21	19.31	19.31	21.01	21.11	21.11
		50#0	19.13	19.04	19.06	20.93	20.84	20.86
		50#24	18.75	18.78	19.12	20.55	20.58	20.92
		50#50	18.81	18.71	19.17	20.61	20.51	20.97
		100#0	19.06	18.78	19.14	20.86	20.58	20.94

Note: EIRP (dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤33dBm

LTE Band 12

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.61	14.51	22.35	16.28	8.18	16.02
		1#3	22.97	14.55	22.24	16.64	8.22	15.91
		1#5	22.71	14.38	22.27	16.38	8.05	15.94
		3#0	22.61	19.44	22.72	16.28	13.11	16.39
		3#1	22.89	19.48	22.52	16.56	13.15	16.19
		3#3	22.75	19.38	22.38	16.42	13.05	16.05
		6#0	21.81	21.55	21.57	15.48	15.22	15.24
	16QAM	1#0	21.46	14.35	21.29	15.13	8.02	14.96
		1#3	21.51	14.33	21.18	15.18	8.00	14.85
		1#5	21.5	14.28	21.26	15.17	7.95	14.93
		3#0	21.64	19.6	21.74	15.31	13.27	15.41
		3#1	21.68	19.71	21.73	15.35	13.38	15.40
		3#3	21.59	19.58	21.86	15.26	13.25	15.53
		6#0	20.96	20.82	20.82	14.63	14.49	14.49
3	QPSK	1#0	22.73	22.60	22.75	16.40	16.27	16.42
		1#8	22.86	22.63	22.52	16.53	16.30	16.19
		1#14	22.9	22.60	22.66	16.57	16.27	16.33
		8#0	21.82	21.67	21.65	15.49	15.34	15.32
		8#4	21.83	21.65	21.56	15.50	15.32	15.23
		8#7	21.82	21.54	21.62	15.49	15.21	15.29
		15#0	21.83	21.69	21.56	15.50	15.36	15.23
	16QAM	1#0	21.43	21.69	21.57	15.10	15.36	15.24
		1#8	21.71	21.65	21.51	15.38	15.32	15.18
		1#14	21.65	21.67	21.55	15.32	15.34	15.22
		8#0	20.79	21.04	20.68	14.46	14.71	14.35
		8#4	20.70	21.03	20.62	14.37	14.70	14.29
		8#7	20.75	20.99	20.55	14.42	14.66	14.22
		15#0	20.67	20.75	20.49	14.34	14.42	14.16

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.58	22.6	22.11	16.25	16.27	15.78
		1#12	22.65	23	22.41	16.32	16.67	16.08
		1#24	22.46	22.45	22.01	16.13	16.12	15.68
		12#0	21.89	21.7	21.5	15.56	15.37	15.17
		12#7	21.85	21.65	21.54	15.52	15.32	15.21
		12#13	21.81	21.62	21.46	15.48	15.29	15.13
		25#0	21.79	21.68	21.56	15.46	15.35	15.23
	16QAM	1#0	21.72	21.48	21.67	15.39	15.15	15.34
		1#12	21.72	21.32	21.91	15.39	14.99	15.58
		1#24	21.15	21.13	21.78	14.82	14.80	15.45
		12#0	20.81	20.68	20.54	14.48	14.35	14.21
		12#7	20.78	20.64	20.54	14.45	14.31	14.21
		12#13	20.76	20.59	20.38	14.43	14.26	14.05
		25#0	20.77	20.71	20.57	14.44	14.38	14.24
10	QPSK	1#0	22.91	22.99	22.81	16.58	16.66	16.48
		1#25	22.98	23.08	23.19	16.65	16.75	16.86
		1#49	22.58	22.96	22.75	16.25	16.63	16.42
		25#0	21.82	21.88	21.9	15.49	15.55	15.57
		25#12	21.84	21.88	21.84	15.51	15.55	15.51
		25#25	21.85	21.87	21.9	15.52	15.54	15.57
		50#0	21.83	21.91	21.9	15.50	15.58	15.57
	16QAM	1#0	21.65	21.86	21.96	15.32	15.53	15.63
		1#25	21.7	22.15	21.85	15.37	15.82	15.52
		1#49	21.63	22.03	21.23	15.30	15.70	14.90
		25#0	21.08	20.77	20.89	14.75	14.44	14.56
		25#12	20.91	20.76	20.87	14.58	14.43	14.54
		25#25	20.85	20.72	20.98	14.52	14.39	14.65
		50#0	20.77	20.73	20.71	14.44	14.40	14.38

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)
Antenna Gain (dBd) = Antenna Gain (dBi)-2.15
Limit: ERP≤34.77dBm

LTE Band 17

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.42	22.38	22.63	16.09	16.05	16.30
		1#12	22.83	23.12	22.73	16.50	16.79	16.40
		1#24	22.16	22.49	22.37	15.83	16.16	16.04
		12#0	21.87	21.76	21.67	15.54	15.43	15.34
		12#7	21.74	21.79	21.74	15.41	15.46	15.41
		12#13	21.82	21.7	21.67	15.49	15.37	15.34
		25#0	21.78	21.68	21.71	15.45	15.35	15.38
	16QAM	1#0	21.89	21.14	21.51	15.56	14.81	15.18
		1#12	22.1	21.73	21.38	15.77	15.40	15.05
		1#24	21.31	21.05	20.68	14.98	14.72	14.35
		12#0	20.58	20.55	20.76	14.25	14.22	14.43
		12#7	20.56	20.47	20.45	14.23	14.14	14.12
		12#13	20.56	20.47	20.46	14.23	14.14	14.13
		25#0	20.82	20.71	20.74	14.49	14.38	14.41
10	QPSK	1#0	22.81	22.94	22.7	16.48	16.61	16.37
		1#25	22.75	22.88	22.88	16.42	16.55	16.55
		1#49	22.53	22.67	22.58	16.20	16.34	16.25
		25#0	21.86	21.8	21.76	15.53	15.47	15.43
		25#12	21.88	21.81	21.73	15.55	15.48	15.40
		25#25	21.86	21.72	21.77	15.53	15.39	15.44
		50#0	21.83	21.79	21.77	15.50	15.46	15.44
	16QAM	1#0	21.76	22.12	21.78	15.43	15.79	15.45
		1#25	21.65	22.62	21.77	15.32	16.29	15.44
		1#49	21.16	21.88	21.04	14.83	15.55	14.71
		25#0	20.92	20.76	20.91	14.59	14.43	14.58
		25#12	20.95	21.01	20.8	14.62	14.68	14.47
		25#25	20.93	20.92	20.76	14.60	14.59	14.43
		50#0	20.74	20.63	20.81	14.41	14.30	14.48

Note: ERP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
Antenna Gain(dBd) = Antenna Gain(dBi)-2.15
Limit: ERP≤34.77dBm

LTE Band 25

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.16	21.78	21.96	26.35	25.97	26.15
		1#3	22.1	22.05	21.92	26.29	26.24	26.11
		1#5	22.13	21.8	21.88	26.32	25.99	26.07
		3#0	22.12	22.04	22	26.31	26.23	26.19
		3#1	22.25	22.11	22.08	26.44	26.30	26.27
		3#3	22	22.09	21.99	26.19	26.28	26.18
		6#0	21.12	21.16	21.05	25.31	25.35	25.24
	16QAM	1#0	21.14	20.64	20.8	25.33	24.83	24.99
		1#3	20.91	20.65	20.74	25.10	24.84	24.93
		1#5	20.7	20.78	20.86	24.89	24.97	25.05
		3#0	20.72	21.21	20.89	24.91	25.40	25.08
		3#1	20.66	21.19	20.94	24.85	25.38	25.13
		3#3	20.63	21.13	20.94	24.82	25.32	25.13
		6#0	19.94	20.24	19.6	24.13	24.43	23.79
3	QPSK	1#0	22.21	22.23	22.35	26.40	26.42	26.54
		1#8	22.09	22.29	22.14	26.28	26.48	26.33
		1#14	22.05	22.31	22.14	26.24	26.50	26.33
		8#0	21.23	21.27	21.26	25.42	25.46	25.45
		8#4	21.12	21.16	21.2	25.31	25.35	25.39
		8#7	21.1	21.21	21.23	25.29	25.40	25.42
		15#0	21.17	21.15	21.14	25.36	25.34	25.33
	16QAM	1#0	20.8	21.12	21.18	24.99	25.31	25.37
		1#8	20.72	21.06	21.21	24.91	25.25	25.40
		1#14	20.68	21.11	21.13	24.87	25.30	25.32
		8#0	20.04	20.11	20.23	24.23	24.30	24.42
		8#4	19.98	20.13	20.26	24.17	24.32	24.45
		8#7	19.96	20.14	20.17	24.15	24.33	24.36
		15#0	19.96	19.98	20.16	24.15	24.17	24.35

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	21.96	21.95	22.04	26.15	26.14	26.23
		1#12	22.23	22.2	22.19	26.42	26.39	26.38
		1#24	21.92	21.86	21.58	26.11	26.05	25.77
		12#0	21.19	21.14	21.22	25.38	25.33	25.41
		12#7	21.26	21.02	21.25	25.45	25.21	25.44
		12#13	21.2	21.06	21.11	25.39	25.25	25.30
		25#0	21.15	21.13	21.21	25.34	25.32	25.40
	16QAM	1#0	20.84	21	21.26	25.03	25.19	25.45
		1#12	21	20.66	21.55	25.19	24.85	25.74
		1#24	20.79	20.46	20.52	24.98	24.65	24.71
		12#0	19.97	19.82	19.9	24.16	24.01	24.09
		12#7	19.96	19.94	19.92	24.15	24.13	24.11
		12#13	19.9	19.89	19.85	24.09	24.08	24.04
		25#0	20.03	20.24	20.17	24.22	24.43	24.36
10	QPSK	1#0	22.17	22.42	22.23	26.36	26.61	26.42
		1#25	22.35	22.18	22.52	26.54	26.37	26.71
		1#49	22.03	22.32	22.04	26.22	26.51	26.23
		25#0	21.22	21.18	21.21	25.41	25.37	25.40
		25#12	21.22	21.18	21.28	25.41	25.37	25.47
		25#25	21.14	21.11	21.16	25.33	25.30	25.35
		50#0	21.2	21.14	21.24	25.39	25.33	25.43
	16QAM	1#0	21.21	21.1	20.98	25.40	25.29	25.17
		1#25	20.96	22.02	21.22	25.15	26.21	25.41
		1#49	20.53	21.24	20.56	24.72	25.43	24.75
		25#0	20.11	20.05	20.18	24.30	24.24	24.37
		25#12	20.27	20.01	20.15	24.46	24.20	24.34
		25#25	20.2	19.98	20.04	24.39	24.17	24.23
		50#0	20.21	20	20.07	24.40	24.19	24.26

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	22.26	22.39	22.5	26.45	26.58	26.69
		1#37	22.35	22.65	22.56	26.54	26.84	26.75
		1#74	22.22	22.15	22.08	26.41	26.34	26.27
		36#0	21.21	21.25	21.33	25.40	25.44	25.52
		36#20	21.33	21.2	21.24	25.52	25.39	25.43
		36#39	21.21	21.12	21.2	25.40	25.31	25.39
		75#0	21.15	21.14	21.21	25.34	25.33	25.40
	16QAM	1#0	21.36	21.05	21.16	25.55	25.24	25.35
		1#37	21.6	22.01	21.9	25.79	26.20	26.09
		1#74	21.31	21.05	20.87	25.50	25.24	25.06
		36#0	20	20.16	20.28	24.19	24.35	24.47
		36#20	20.22	20.04	20.08	24.41	24.23	24.27
		36#39	19.99	20.1	20.2	24.18	24.29	24.39
		75#0	20.1	20.15	20.23	24.29	24.34	24.42
20	QPSK	1#0	21.87	21.82	22.19	26.06	26.01	26.38
		1#49	22.2	22.03	22.64	26.39	26.22	26.83
		1#99	21.72	21.78	21.93	25.91	25.97	26.12
		50#0	21.23	21.22	21.35	25.42	25.41	25.54
		50#24	21.3	21.19	21.27	25.49	25.38	25.46
		50#50	21.06	21.23	21.2	25.25	25.42	25.39
		100#0	21.24	21.18	21.28	25.43	25.37	25.47
	16QAM	1#0	20.94	20.98	20.31	25.13	25.17	24.50
		1#49	21.05	21.46	21.11	25.24	25.65	25.30
		1#99	20.53	20.88	20.09	24.72	25.07	24.28
		50#0	20.06	20.24	20.27	24.25	24.43	24.46
		50#24	20.02	20.21	20.16	24.21	24.40	24.35
		50#50	20	20.04	20.12	24.19	24.23	24.31
		100#0	20.13	20.05	20.06	24.32	24.24	24.25

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBd)
Limit: EIRP≤33dBm

LTE Band 26 (814-824MHz)

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	High	Cross	Low	High	Cross
1.4	QPSK	1#0	22.72	22.99	22.01	19.94	20.21	19.23
		1#3	22.91	23.04	22.17	20.13	20.26	19.39
		1#5	22.75	22.96	22.05	19.97	20.18	19.27
		3#0	22.93	23.02	22.24	20.15	20.24	19.46
		3#1	23	23.06	22.2	20.22	20.28	19.42
		3#3	22.87	23.01	22.2	20.09	20.23	19.42
		6#0	21.91	22.15	21.17	19.13	19.37	18.39
	16QAM	1#0	21.65	21.66	21.02	18.87	18.88	18.24
		1#3	21.76	21.66	21.05	18.98	18.88	18.27
		1#5	21.64	21.7	20.86	18.86	18.92	18.08
		3#0	21.83	21.75	21.31	19.05	18.97	18.53
		3#1	21.92	21.9	21.28	19.14	19.12	18.50
		3#3	21.69	21.77	21.14	18.91	18.99	18.36
		6#0	20.88	20.99	20.3	18.10	18.21	17.52
3	QPSK	1#0	23.09	23.21	22.42	20.31	20.43	19.64
		1#8	23.14	23.01	22.38	20.36	20.23	19.60
		1#14	23.19	23.19	22.48	20.41	20.41	19.70
		8#0	22.01	22.1	21.32	19.23	19.32	18.54
		8#4	22.01	22.05	21.26	19.23	19.27	18.48
		8#7	22.04	22.07	21.25	19.26	19.29	18.47
		15#0	22.03	22.13	21.16	19.25	19.35	18.38
	16QAM	1#0	21.85	22.11	21.27	19.07	19.33	18.49
		1#8	21.85	22.1	21.17	19.07	19.32	18.39
		1#14	21.83	22.1	21.32	19.05	19.32	18.54
		8#0	20.97	21.01	20.04	18.19	18.23	17.26
		8#4	21.09	21.03	20.24	18.31	18.25	17.46
		8#7	21.11	20.77	20.27	18.33	17.99	17.49
		15#0	20.74	21	20.28	17.96	18.22	17.50

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	High	Cross	Low	High	Cross
5	QPSK	1#0	22.56	22.72	22.25	19.78	19.94	19.47
		1#12	22.92	23.51	22.33	20.14	20.73	19.55
		1#24	22.42	22.72	22.01	19.64	19.94	19.23
		12#0	21.93	21.81	21.17	19.15	19.03	18.39
		12#7	22	21.73	21.24	19.22	18.95	18.46
		12#13	21.96	21.64	21.31	19.18	18.86	18.53
		25#0	21.9	21.72	21.21	19.12	18.94	18.43
	16QAM	1#0	22.06	21.62	20.5	19.28	18.84	17.72
		1#12	22.34	21.65	20.86	19.56	18.87	18.08
		1#24	21.37	20.76	20.35	18.59	17.98	17.57
		12#0	20.74	20.66	20.16	17.96	17.88	17.38
		12#7	21.02	20.5	20.07	18.24	17.72	17.29
		12#13	20.77	20.32	20.07	17.99	17.54	17.29
		25#0	20.92	20.74	20.44	18.14	17.96	17.66
10	QPSK	1#0	23.6	/	22.89	20.82	/	20.11
		1#25	23.18	/	22.4	20.40	/	19.62
		1#49	22.69	/	22.13	19.91	/	19.35
		25#0	22.22	/	21.3	19.44	/	18.52
		25#12	22.09	/	21.28	19.31	/	18.50
		25#25	21.78	/	21.25	19.00	/	18.47
		50#0	22.09	/	21.36	19.31	/	18.58
	16QAM	1#0	22.27	/	21.44	19.49	/	18.66
		1#25	21.43	/	22.06	18.65	/	19.28
		1#49	20.91	/	21.18	18.13	/	18.40
		25#0	20.53	/	20.35	17.75	/	17.57
		25#12	20.59	/	20.31	17.81	/	17.53
		25#25	20.53	/	20.34	17.75	/	17.56
		50#0	20.48	/	20.29	17.70	/	17.51
15	QPSK	1#0	22.9	/	22.62	20.12	/	19.84
		1#37	23.02	/	22.26	20.24	/	19.48
		1#74	22.21	/	22.05	19.43	/	19.27
		36#0	21.56	/	21.41	18.78	/	18.63
		36#20	21.44	/	21.31	18.66	/	18.53
		36#39	21.27	/	21.22	18.49	/	18.44
		75#0	21.42	/	21.45	18.64	/	18.67
	16QAM	1#0	21.91	/	21.42	19.13	/	18.64
		1#37	21.69	/	22.03	18.91	/	19.25
		1#74	21.31	/	21.02	18.53	/	18.24
		36#0	20.39	/	20.37	17.61	/	17.59
		36#20	20.39	/	20.32	17.61	/	17.54
		36#39	20.06	/	20.25	17.28	/	17.47
		75#0	20.39	/	20.38	17.61	/	17.60

LTE Band 26 (824-849MHz)

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.44	21.89	21.88	19.66	19.11	19.10
		1#3	22.42	22.13	21.87	19.64	19.35	19.09
		1#5	22.56	21.96	21.71	19.78	19.18	18.93
		3#0	22.37	22.1	21.56	19.59	19.32	18.78
		3#1	22.25	22.16	21.66	19.47	19.38	18.88
		3#3	22.26	22.32	21.65	19.48	19.54	18.87
		6#0	21.13	21.17	20.67	18.35	18.39	17.89
	16QAM	1#0	21.29	20.85	20.45	18.51	18.07	17.67
		1#3	21.23	21.09	20.4	18.45	18.31	17.62
		1#5	21.37	20.91	20.38	18.59	18.13	17.60
		3#0	21.13	21.33	20.94	18.35	18.55	18.16
		3#1	21.35	21.55	20.86	18.57	18.77	18.08
		3#3	21.4	21.26	21.04	18.62	18.48	18.26
		6#0	19.98	20.34	19.88	17.20	17.56	17.10
3	QPSK	1#0	22.11	22.27	21.85	19.33	19.49	19.07
		1#8	22.33	22.44	21.63	19.55	19.66	18.85
		1#14	22.52	22.3	21.62	19.74	19.52	18.84
		8#0	21.24	21.2	20.64	18.46	18.42	17.86
		8#4	21.36	21.18	20.72	18.58	18.40	17.94
		8#7	21.3	21.19	20.6	18.52	18.41	17.82
		15#0	21.38	21.17	20.65	18.60	18.39	17.87
	16QAM	1#0	21.04	21.23	20.68	18.26	18.45	17.90
		1#8	20.99	21.27	20.29	18.21	18.49	17.51
		1#14	21.01	21.16	20	18.23	18.38	17.22
		8#0	20.16	20.47	19.89	17.38	17.69	17.11
		8#4	20.23	20.45	19.72	17.45	17.67	16.94
		8#7	20.18	20.45	19.71	17.40	17.67	16.93
		15#0	20.22	20.25	19.7	17.44	17.47	16.92

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.06	22.04	21.41	19.28	19.26	18.63
		1#12	22.27	22.28	21.9	19.49	19.50	19.12
		1#24	21.91	21.89	21.1	19.13	19.11	18.32
		12#0	21.4	21.18	20.85	18.62	18.40	18.07
		12#7	21.32	21.25	20.76	18.54	18.47	17.98
		12#13	21.32	21.19	20.68	18.54	18.41	17.90
		25#0	21.31	21.2	20.78	18.53	18.42	18.00
	16QAM	1#0	20.7	20.71	20.95	17.92	17.93	18.17
		1#12	21.3	20.94	20.78	18.52	18.16	18.00
		1#24	20.58	20.2	20.08	17.80	17.42	17.30
		12#0	20.45	19.89	19.78	17.67	17.11	17.00
		12#7	20.39	20.15	19.71	17.61	17.37	16.93
		12#13	20.41	19.87	19.58	17.63	17.09	16.80
		25#0	20.42	20.24	19.73	17.64	17.46	16.95
10	QPSK	1#0	22.2	22.45	22	19.42	19.67	19.22
		1#25	22.36	22.39	22.17	19.58	19.61	19.39
		1#49	21.93	22.05	21.73	19.15	19.27	18.95
		25#0	21.29	21.26	20.83	18.51	18.48	18.05
		25#12	21.25	21.21	20.9	18.47	18.43	18.12
		25#25	21.19	21.2	20.79	18.41	18.42	18.01
		50#0	21.24	21.31	20.85	18.46	18.53	18.07
	16QAM	1#0	21.06	21.39	21.2	18.28	18.61	18.42
		1#25	21.06	21.37	21.03	18.28	18.59	18.25
		1#49	20.56	21.04	20.19	17.78	18.26	17.41
		25#0	20.36	20.19	20.03	17.58	17.41	17.25
		25#12	20.3	20.2	19.89	17.52	17.42	17.11
		25#25	20.26	20.09	19.69	17.48	17.31	16.91
		50#0	20.07	20.26	19.77	17.29	17.48	16.99

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	22.25	22.28	22.36	19.47	19.50	19.58
		1#37	22.96	22.77	22.16	20.18	19.99	19.38
		1#74	22	22	21.52	19.22	19.22	18.74
		36#0	21.34	21.16	21	18.56	18.38	18.22
		36#20	21.16	21.04	20.87	18.38	18.26	18.09
		36#39	21.04	21.02	20.74	18.26	18.24	17.96
		75#0	21.15	21.06	20.93	18.37	18.28	18.15
	16QAM	1#0	21.49	21.13	20.82	18.71	18.35	18.04
		1#37	21.64	21.23	21.15	18.86	18.45	18.37
		1#74	21.32	20.88	20.02	18.54	18.10	17.24
		36#0	20.15	20.01	19.89	17.37	17.23	17.11
		36#20	20.23	19.92	19.9	17.45	17.14	17.12
		36#39	19.91	19.85	19.78	17.13	17.07	17.00
		75#0	20.13	19.92	19.87	17.35	17.14	17.09

Note: ERP (dBm) = Conducted Power (dBm) + Antenna Gain (dBd)
Antenna Gain (dBd) = Antenna Gain (dBi)-2.15
Limit: ERP≤38.45dBm (Part 22H), ERP≤50dBm (Part 90S)

LTE Band 41

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	21.54	20.64	21.08	23.34	22.44	22.88
		1#12	21.84	20.96	21.68	23.64	22.76	23.48
		1#24	21.27	20.57	21.09	23.07	22.37	22.89
		12#0	20.52	19.75	20.46	22.32	21.55	22.26
		12#7	20.69	19.46	20.54	22.49	21.26	22.34
		12#13	20.45	19.64	20.46	22.25	21.44	22.26
		25#0	20.68	19.44	20.3	22.48	21.24	22.10
	16QAM	1#0	20.3	19.86	19.87	22.10	21.66	21.67
		1#12	20.57	19.97	20.45	22.37	21.77	22.25
		1#24	20.22	19.89	19.89	22.02	21.69	21.69
		12#0	19.52	18.87	19.18	21.32	20.67	20.98
		12#7	19.69	18.8	19.33	21.49	20.60	21.13
		12#13	19.45	18.76	19.23	21.25	20.56	21.03
		25#0	19.69	18.8	19.54	21.49	20.60	21.34
10	QPSK	1#0	22	20.97	21.3	23.80	22.77	23.10
		1#25	22.05	20.83	21.57	23.85	22.63	23.37
		1#49	21.85	20.73	21.32	23.65	22.53	23.12
		25#0	20.81	19.73	20.35	22.61	21.53	22.15
		25#12	20.76	19.67	20.48	22.56	21.47	22.28
		25#25	20.62	19.61	20.47	22.42	21.41	22.27
		50#0	20.6	19.63	20.45	22.40	21.43	22.25
	16QAM	1#0	21.63	20.08	19.89	23.43	21.88	21.69
		1#25	21.68	20.35	19.98	23.48	22.15	21.78
		1#49	21.59	20.06	19.84	23.39	21.86	21.64
		25#0	19.68	18.91	19.28	21.48	20.71	21.08
		25#12	19.64	18.74	19.43	21.44	20.54	21.23
		25#25	19.61	18.72	19.51	21.41	20.52	21.31
		50#0	19.66	18.78	19.55	21.46	20.58	21.35

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	21.77	20.97	21.49	23.57	22.77	23.29
		1#37	21.76	20.86	21.47	23.56	22.66	23.27
		1#74	21.36	20.73	21.29	23.16	22.53	23.09
		36#0	20.55	19.69	20.41	22.35	21.49	22.21
		36#20	20.57	19.67	20.49	22.37	21.47	22.29
		36#39	20.41	19.72	20.4	22.21	21.52	22.20
		75#0	20.55	19.79	20.41	22.35	21.59	22.21
	16QAM	1#0	20.98	20.4	19.84	22.78	22.20	21.64
		1#37	21.25	20.3	19.91	23.05	22.10	21.71
		1#74	20.66	19.9	19.66	22.46	21.70	21.46
		36#0	19.44	18.75	19.58	21.24	20.55	21.38
		36#20	19.34	18.75	19.61	21.14	20.55	21.41
		36#39	19.32	18.72	19.57	21.12	20.52	21.37
		75#0	19.46	18.72	19.64	21.26	20.52	21.44
20	QPSK	1#0	21.8	20.5	21.48	23.60	22.30	23.28
		1#49	21.67	20.49	21.62	23.47	22.29	23.42
		1#99	21.2	20.5	21.51	23.00	22.30	23.31
		50#0	20.39	19.81	20.46	22.19	21.61	22.26
		50#24	20.55	19.71	20.42	22.35	21.51	22.22
		50#50	20.34	19.67	20.42	22.14	21.47	22.22
		100#0	20.28	19.76	20.32	22.08	21.56	22.12
	16QAM	1#0	20.51	19.33	19.07	22.31	21.13	20.87
		1#49	20.63	19.5	20.07	22.43	21.30	21.87
		1#99	20.23	19.26	19.57	22.03	21.06	21.37
		50#0	19.38	18.89	19.6	21.18	20.69	21.40
		50#24	19.44	18.66	19.67	21.24	20.46	21.47
		50#50	19.26	18.74	19.63	21.06	20.54	21.43
		100#0	19.39	18.7	19.52	21.19	20.50	21.32

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤33dBm

LTE Band 66

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
1.4	QPSK	1#0	22.95	22.58	22.31	24.42	24.05	23.78
		1#3	23.03	22.77	22.41	24.50	24.24	23.88
		1#5	22.99	22.64	22.48	24.46	24.11	23.95
		3#0	23.01	22.9	22.16	24.48	24.37	23.63
		3#1	23.09	22.97	22.17	24.56	24.44	23.64
		3#3	23.02	22.82	22.29	24.49	24.29	23.76
		6#0	21.71	21.62	21.09	23.18	23.09	22.56
	16QAM	1#0	21.39	21.38	20.84	22.86	22.85	22.31
		1#3	21.61	21.77	20.76	23.08	23.24	22.23
		1#5	21.38	21.38	20.81	22.85	22.85	22.28
		3#0	21.73	21.75	20.7	23.20	23.22	22.17
		3#1	21.74	21.76	20.66	23.21	23.23	22.13
		3#3	21.86	21.72	20.73	23.33	23.19	22.20
		6#0	20.59	20.45	20.04	22.06	21.92	21.51
3	QPSK	1#0	22.89	22.64	22.47	24.36	24.11	23.94
		1#8	23.27	22.67	22.09	24.74	24.14	23.56
		1#14	23.27	22.65	22.34	24.74	24.12	23.81
		8#0	21.76	21.79	21.09	23.23	23.26	22.56
		8#4	21.59	21.8	21.1	23.06	23.27	22.57
		8#7	21.66	21.73	21.09	23.13	23.20	22.56
		15#0	21.81	21.76	21.13	23.28	23.23	22.60
	16QAM	1#0	21.81	22.13	21.36	23.28	23.60	22.83
		1#8	21.71	21.91	21.13	23.18	23.38	22.60
		1#14	21.66	22.02	21.51	23.13	23.49	22.98
		8#0	20.86	20.93	20.51	22.33	22.40	21.98
		8#4	20.85	20.93	20.37	22.32	22.40	21.84
		8#7	20.8	20.98	20.03	22.27	22.45	21.50
		15#0	20.65	20.72	20.49	22.12	22.19	21.96

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	22.63	22.79	22.14	24.10	24.26	23.61
		1#12	22.72	22.64	21.93	24.19	24.11	23.40
		1#24	22.69	22.68	21.9	24.16	24.15	23.37
		12#0	21.65	21.68	21.04	23.12	23.15	22.51
		12#7	21.49	21.85	20.96	22.96	23.32	22.43
		12#13	21.55	21.62	20.98	23.02	23.09	22.45
		25#0	21.58	21.84	20.96	23.05	23.31	22.43
	16QAM	1#0	21.69	21.49	20.91	23.16	22.96	22.38
		1#12	21.67	21.82	20.72	23.14	23.29	22.19
		1#24	21.22	21.4	20.3	22.69	22.87	21.77
		12#0	20.21	20.51	19.77	21.68	21.98	21.24
		12#7	20.19	20.49	20.11	21.66	21.96	21.58
		12#13	20.19	20.52	19.91	21.66	21.99	21.38
		25#0	20.69	20.51	20.23	22.16	21.98	21.70
10	QPSK	1#0	22.81	22.91	22.18	24.28	24.38	23.65
		1#25	23.07	22.87	22.18	24.54	24.34	23.65
		1#49	22.61	22.72	21.65	24.08	24.19	23.12
		25#0	21.53	21.8	20.81	23.00	23.27	22.28
		25#12	21.58	21.73	20.78	23.05	23.20	22.25
		25#25	21.53	21.66	20.74	23.00	23.13	22.21
		50#0	21.53	21.7	20.75	23.00	23.17	22.22
	16QAM	1#0	21.39	22.24	21.05	22.86	23.71	22.52
		1#25	22.42	22.3	21.31	23.89	23.77	22.78
		1#49	21.16	22.05	21.15	22.63	23.52	22.62
		25#0	20.94	20.94	20.01	22.41	22.41	21.48
		25#12	20.95	20.88	19.76	22.42	22.35	21.23
		25#25	20.89	20.83	19.64	22.36	22.30	21.11
		50#0	20.57	20.93	19.83	22.04	22.40	21.30

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	22.75	22.46	21.86	24.22	23.93	23.33
		1#37	22.58	22.33	21.89	24.05	23.80	23.36
		1#74	22.52	22.29	21.77	23.99	23.76	23.24
		36#0	21.61	21.5	20.78	23.08	22.97	22.25
		36#20	21.59	21.53	20.8	23.06	23.00	22.27
		36#39	21.6	21.38	20.7	23.07	22.85	22.17
		75#0	21.51	21.45	20.68	22.98	22.92	22.15
	16QAM	1#0	21.92	22.08	21.29	23.39	23.55	22.76
		1#37	21.59	22.63	21.12	23.06	24.10	22.59
		1#74	20.88	21.8	21.08	22.35	23.27	22.55
		36#0	20.67	20.63	19.6	22.14	22.10	21.07
		36#20	20.63	20.62	19.63	22.10	22.09	21.10
		36#39	20.49	20.39	19.53	21.96	21.86	21.00
		75#0	20.59	20.55	19.72	22.06	22.02	21.19
20	QPSK	1#0	22.83	22.98	22.65	24.30	24.45	24.12
		1#49	22.86	23.11	22.57	24.33	24.58	24.04
		1#99	22.43	22.78	22.72	23.90	24.25	24.19
		50#0	21.53	21.84	21.3	23.00	23.31	22.77
		50#24	21.48	21.84	21.3	22.95	23.31	22.77
		50#50	21.41	21.75	21.23	22.88	23.22	22.70
		100#0	21.52	21.71	21.31	22.99	23.18	22.78
	16QAM	1#0	22.13	22.64	21.16	23.60	24.11	22.63
		1#49	22.71	22.71	21.15	24.18	24.18	22.62
		1#99	22.03	22.51	20.69	23.50	23.98	22.16
		50#0	20.6	21.04	20.39	22.07	22.51	21.86
		50#24	20.39	21.03	20.39	21.86	22.50	21.86
		50#50	20.35	20.85	20.35	21.82	22.32	21.82
		100#0	20.62	20.9	20.43	22.09	22.37	21.90

Note: EIRP(dBm) = Conducted Power(dBm) + Antenna Gain(dBi)
Limit: EIRP≤33dBm

Peak-to-average ratio (PAR):

GPRS/EGPRS 850 Band

Mode	Channel	PAR (dB)	Limit (dB)
GPRS 1slot	Low	6.51	≤ 13
	Middle	6.26	≤ 13
	High	6.94	≤ 13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS 1slot	Low	6.13	≤ 13
	Middle	6.37	≤ 13
	High	6.34	≤ 13

WCDMA Band V

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (RMC)	Low	4.45	≤ 13
	Middle	4.22	≤ 13
	High	4.1	≤ 13
WCDMA (HSDPA)	Low	3.84	≤ 13
	Middle	4.22	≤ 13
	High	4.39	≤ 13
WCDMA (HSUPA)	Low	5.07	≤ 13
	Middle	4.77	≤ 13
	High	5.09	≤ 13
WCDMA (HSPA+)	Low	5.39	≤ 13
	Middle	5.46	≤ 13
	High	5.39	≤ 13

WCDMA Band IV

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (RMC)	Low	4.61	≤ 13
	Middle	4.4	≤ 13
	High	4.03	≤ 13
WCDMA (HSDPA)	Low	3.71	≤ 13
	Middle	4.12	≤ 13
	High	4.31	≤ 13
WCDMA (HSUPA)	Low	5.04	≤ 13
	Middle	4.89	≤ 13
	High	5.25	≤ 13
WCDMA (HSPA+)	Low	5.33	≤ 13
	Middle	5.52	≤ 13
	High	5.48	≤ 13

PCS 1900

Mode	Channel	PAR (dB)	Limit (dB)
GPRS 1slot	Low	6.16	≤ 13
	Middle	6.38	≤ 13
	High	6.33	≤ 13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS 1slot	Low	6.07	≤ 13
	Middle	6.43	≤ 13
	High	6.41	≤ 13

WCDMA Band II

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (RMC)	Low	4.62	≤ 13
	Middle	4.4	≤ 13
	High	4.13	≤ 13
WCDMA (HSDPA)	Low	3.7	≤ 13
	Middle	4.07	≤ 13
	High	4.34	≤ 13
WCDMA (HSUPA)	Low	5.07	≤ 13
	Middle	4.9	≤ 13
	High	5.18	≤ 13
WCDMA (HSPA+)	Low	5.27	≤ 13
	Middle	5.6	≤ 13
	High	5.51	≤ 13

LTE Band 2

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20M	5.83	6.09	5.86	≤ 13
	100 RB		5.42	5.48	5.42	≤ 13
16-QAM	1 RB	20M	6.93	6.96	7.28	≤ 13
	100 RB		6.41	6.46	6.43	≤ 13

LTE Band 4

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.94	5.74	5.33	≤ 13
	100 RB		5.48	5.36	5.45	≤ 13
16-QAM	1 RB	20M	7.01	6.99	6.93	≤ 13
	100 RB		6.46	6.41	6.46	≤ 13

LTE Band 5

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	5.88	6.03	5.86	≤ 13
	50 RB		5.45	5.48	5.30	≤ 13
16-QAM	1 RB	10M	6.35	6.87	6.99	≤ 13
	50 RB		6.38	6.41	6.35	≤ 13

LTE Band 7

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.39	5.13	5.42	≤ 13
	100 RB		5.19	5.13	5.01	≤ 13
16-QAM	1 RB	20M	6.70	6.20	6.55	≤ 13
	100 RB		6.23	6.14	6.09	≤ 13

LTE Band 12

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	6.14	5.97	5.74	≤ 13
	50 RB		5.42	5.36	5.33	≤ 13
16-QAM	1 RB	10M	6.52	6.93	6.96	≤ 13
	50 RB		6.32	6.29	6.35	≤ 13

LTE Band 17

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	5.68	5.83	5.86	≤ 13
	50 RB		5.42	5.42	5.33	≤ 13
16-QAM	1 RB	10M	6.26	6.61	6.78	≤ 13
	50 RB		6.32	6.32	6.35	≤ 13

LTE Band 25

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.80	6.03	6.03	≤ 13
	100 RB		5.36	5.48	5.30	≤ 13
16-QAM	1 RB	20M	7.10	7.07	6.93	≤ 13
	100 RB		6.41	6.43	6.38	≤ 13

LTE Band 26(824-849 MHz)

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	15M	5.77	5.97	5.91	≤ 13
	75 RB		5.91	5.91	5.71	≤ 13
16-QAM	1 RB	15M	6.64	6.72	7.10	≤ 13
	75 RB		6.49	6.52	6.32	≤ 13

LTE Band 41

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	4.93	5.04	4.41	≤ 13
	100 RB		5.04	4.96	4.87	≤ 13
16-QAM	1 RB	20M	5.80	10.70	11.54	≤ 13
	100 RB		6.09	6.06	5.94	≤ 13

LTE Band 66

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	5.30	4.14	5.45	≤ 13
	100 RB		5.16	5.07	5.19	≤ 13
16-QAM	1 RB	20M	6.26	4.81	6.20	≤ 13
	100 RB		6.14	6.06	6.17	≤ 13

OCCUPIED BANDWIDTH

Environmental Conditions & Test Information

Test Date:	2025-09-30 to 2025-10-10
Temperature:	22.4-23.9℃
Relative Humidity:	48-53 %
ATM Pressure:	100.9-101.3 kPa
Test Result:	Pass
Test Engineer:	Hugh Wu

EUT operation mode: Transmitting

LTE: Please check the APPENDIX B_Occupied bandwidth for detail.

GSM 850 Band

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
GPRS (GMSK)	824.2	0.242	0.313
	836.6	0.245	0.312
	848.8	0.239	0.313
EGPRS (8PSK)	824.2	0.243	0.315
	836.6	0.245	0.312
	848.8	0.246	0.315

WCDMA Band V

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (RMC)	826.4	4.110	4.725
	836.6	4.110	4.705
	846.6	4.110	4.725
WCDMA (HSDPA)	826.4	4.140	4.715
	836.6	4.120	4.715
	846.6	4.120	4.685
WCDMA (HSUPA)	826.4	4.120	4.725
	836.6	4.120	4.705
	846.6	4.120	4.725
WCDMA (HSPA+)	826.4	4.100	4.705
	836.6	4.130	4.725
	846.6	4.110	4.715

PCS 1900

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
GPRS (GMSK)	1850.2	0.245	0.316
	1880	0.243	0.320
	1909.8	0.243	0.315
EGPRS (8PSK)	1850.2	0.244	0.315
	1880	0.245	0.314
	1909.8	0.243	0.305

WCDMA Band II

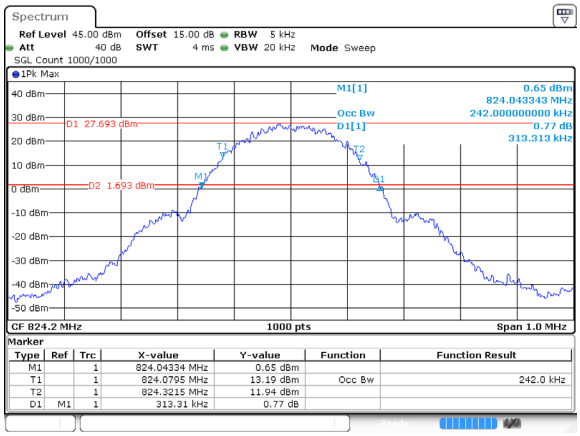
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (Rel 99)	1852.4	4.140	4.725
	1880	4.120	4.725
	1907.6	4.100	4.695
WCDMA (HSDPA)	1852.4	4.140	4.705
	1880	4.170	4.715
	1907.6	4.130	4.725
WCDMA (HSUPA)	1852.4	4.150	4.705
	1880	4.130	4.705
	1907.6	4.110	4.675
WCDMA (HSPA+)	1852.4	4.160	4.715
	1880	4.150	4.725
	1907.6	4.140	4.725

WCDMA Band IV

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (Rel 99)	1712.4	4.110	4.675
	1732.6	4.090	4.685
	1752.6	4.120	4.685
WCDMA (HSDPA)	1712.4	4.120	4.715
	1732.6	4.120	4.735
	1752.6	4.130	4.695
WCDMA (HSUPA)	1712.4	4.110	4.705
	1732.6	4.140	4.735
	1752.6	4.120	4.725
WCDMA (HSPA+)	1712.4	4.130	4.675
	1732.6	4.140	4.715
	1752.6	4.150	4.745

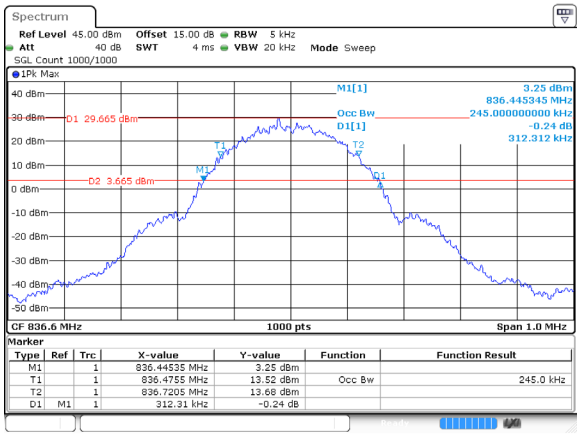
GSM 850 Band

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Low channel



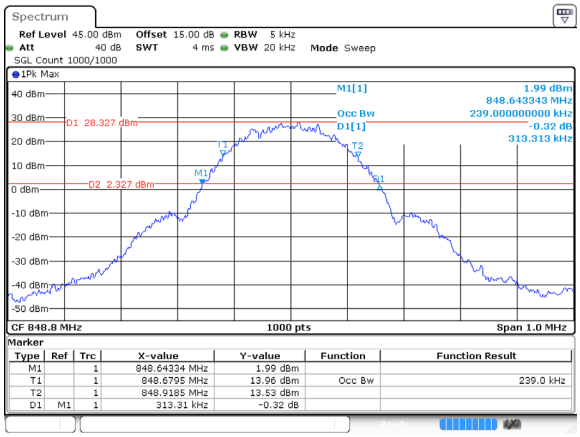
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:54:16

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Middle channel



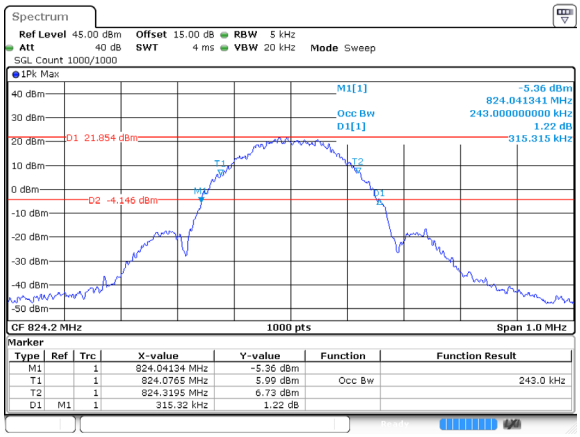
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:54:47

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) High channel



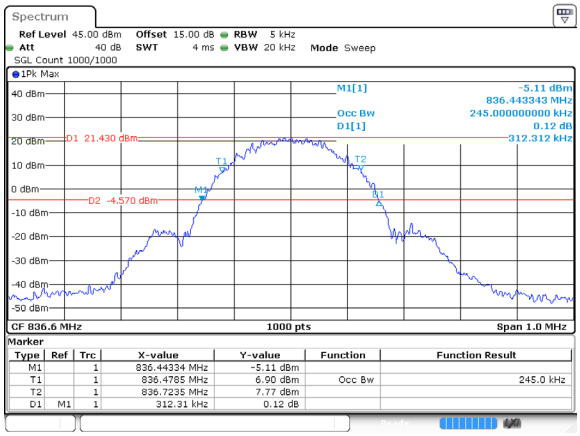
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:55:18

99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Low channel



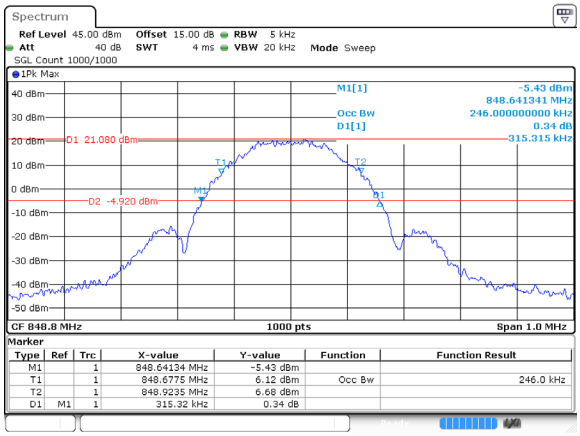
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:55:49

99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Middle channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:56:21

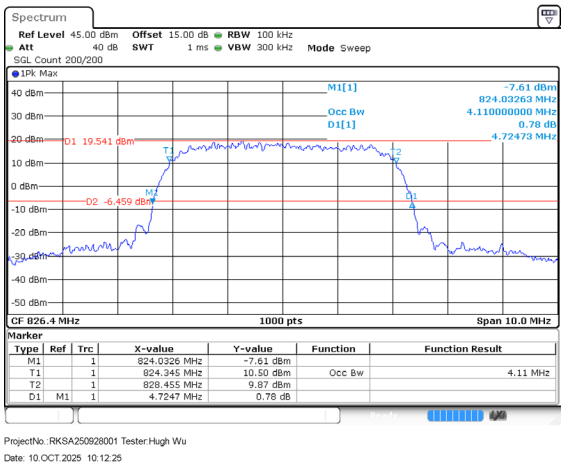
99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) High channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 9.OCT.2025 17:56:51

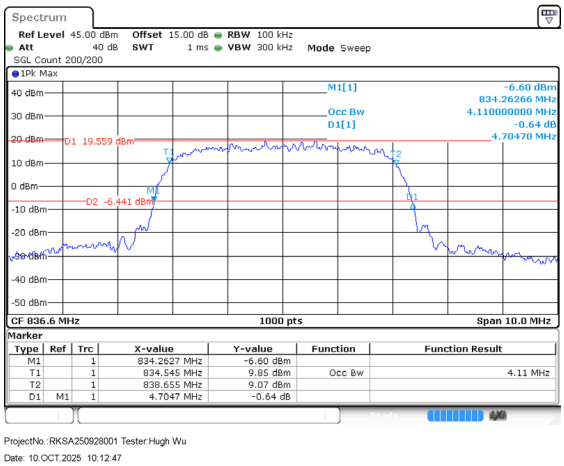
WCDMA Band V

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



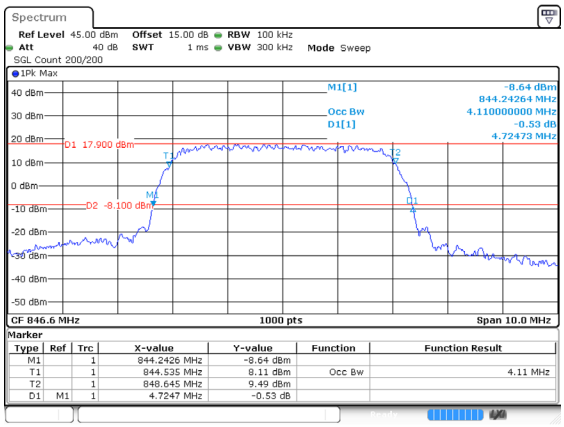
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:12:25

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel



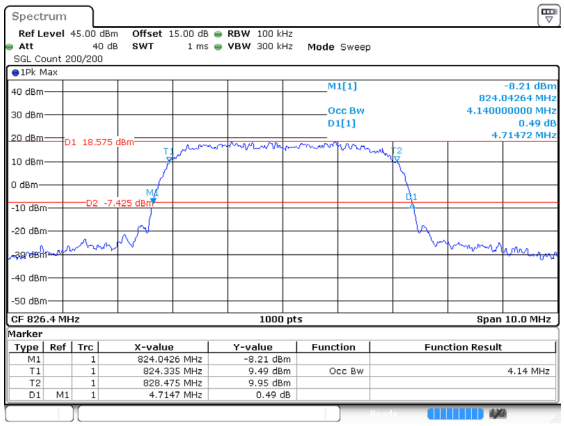
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:12:47

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel



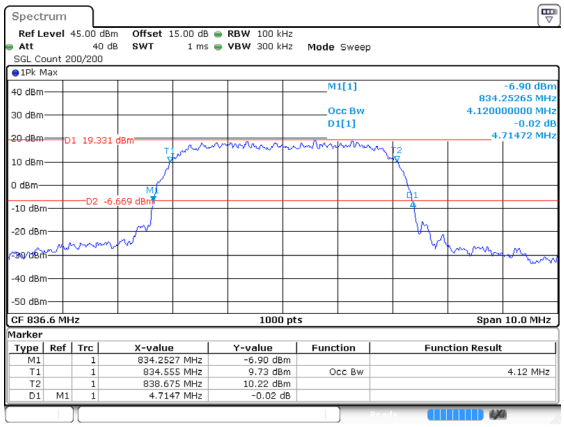
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:13:11

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel



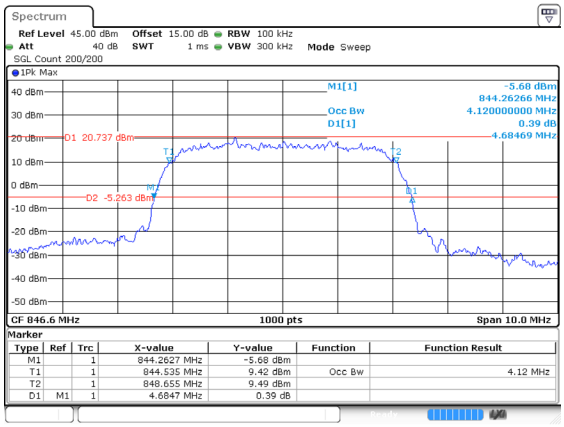
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:51:07

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel



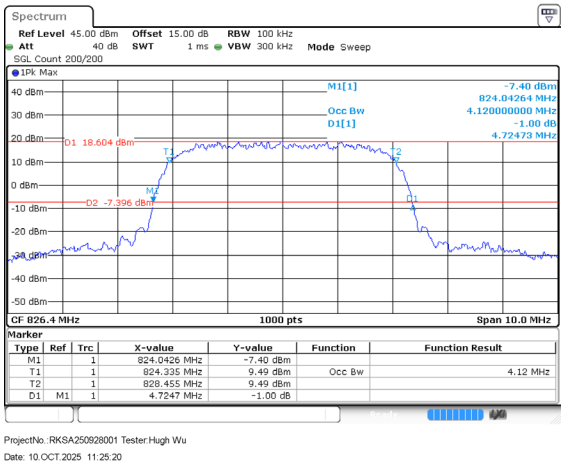
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:51:31

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel



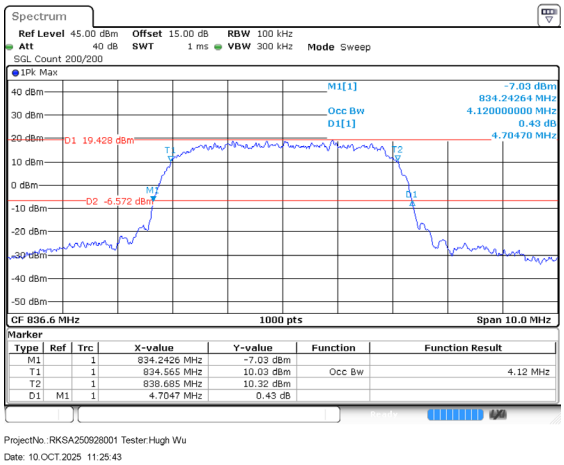
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:51:54

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel



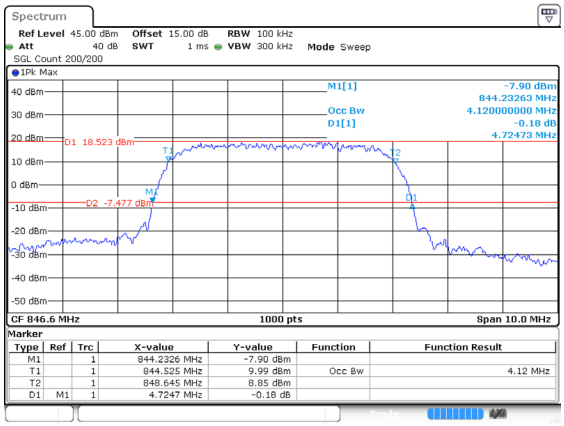
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:25:20

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel



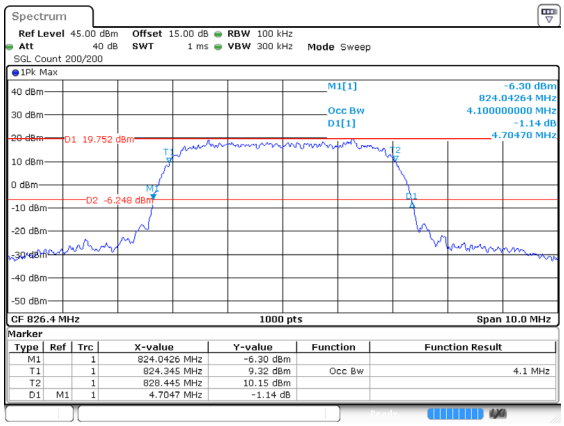
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:25:43

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) High channel



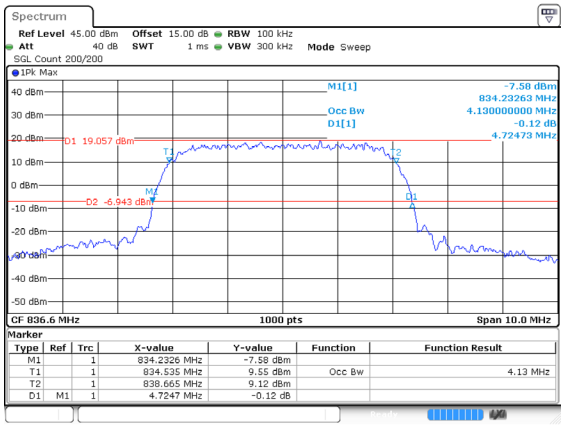
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:26:06

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel



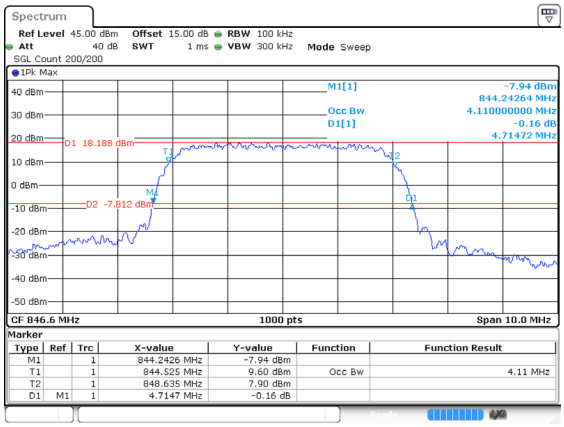
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:50:22

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Middle channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:50:46

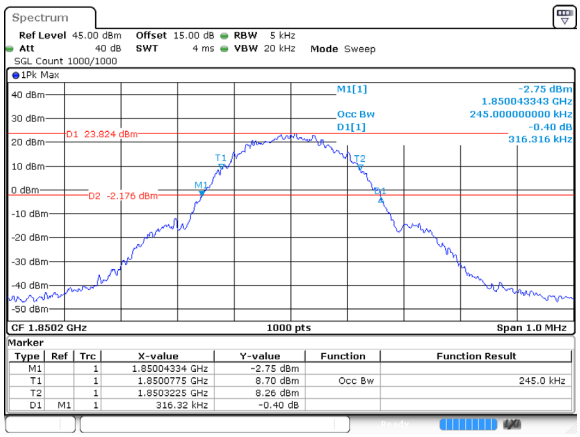
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:51:10

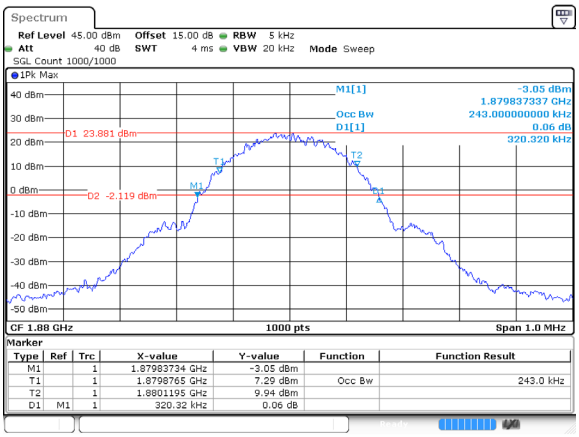
PCS 1900 Band

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Low channel



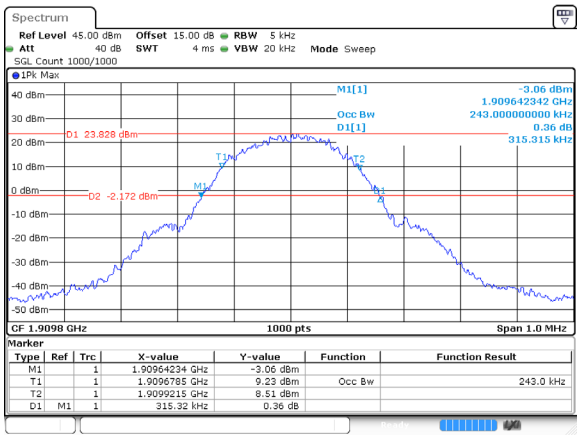
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:30:43

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Middle channel



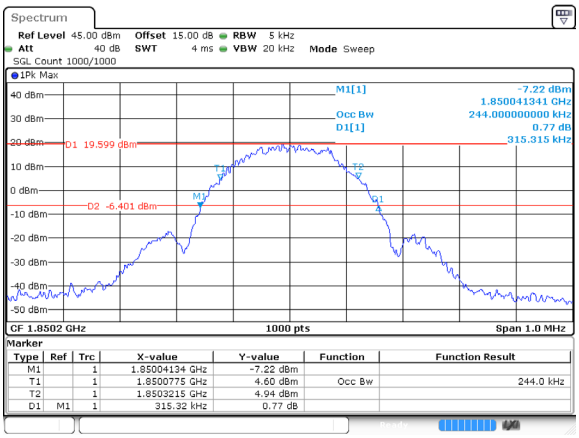
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:31:12

99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) High channel



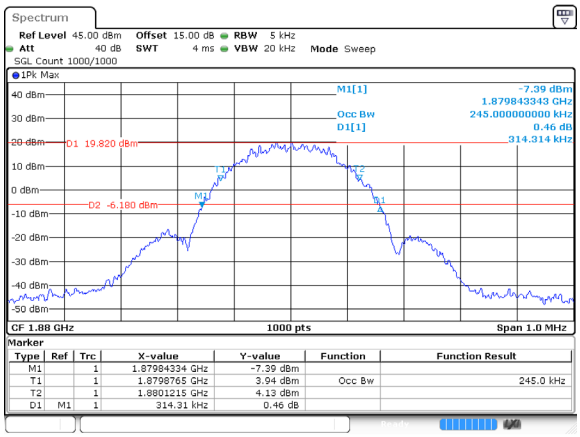
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:31:42

99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Low channel



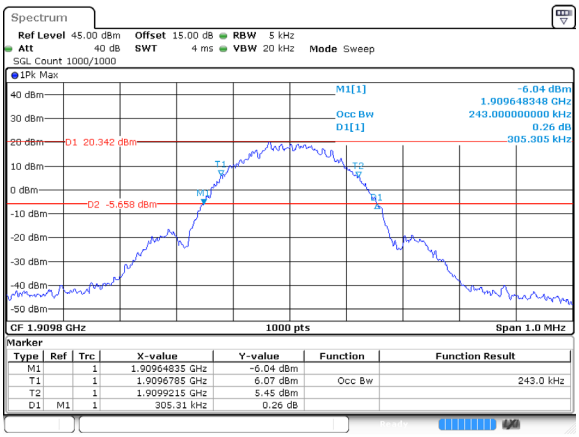
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:32:13

99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Middle channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:32:43

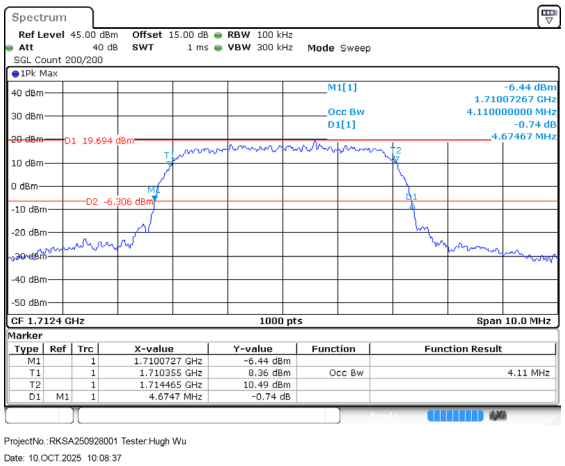
99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) High channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 09:33:13

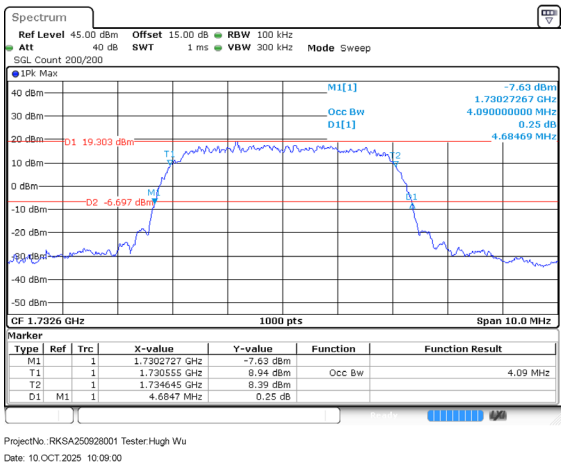
WCDMA Band IV

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



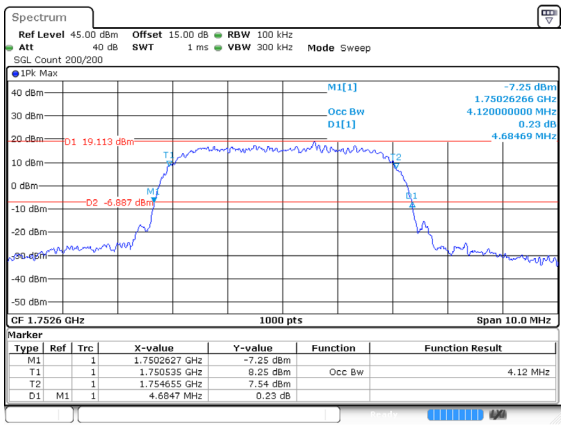
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:08:37

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel



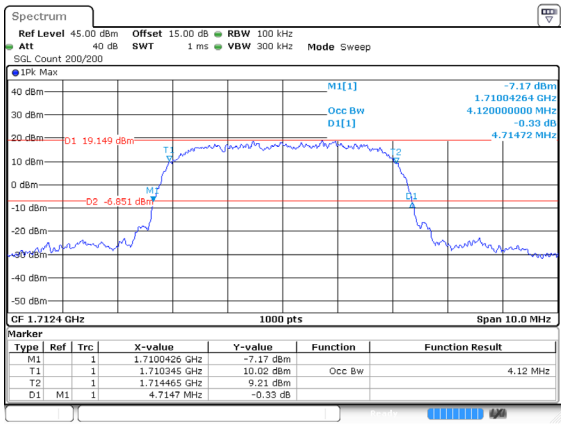
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:09:00

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel



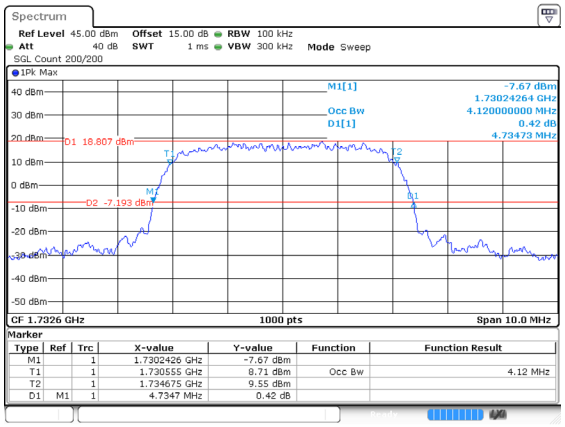
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 10:09:22

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel



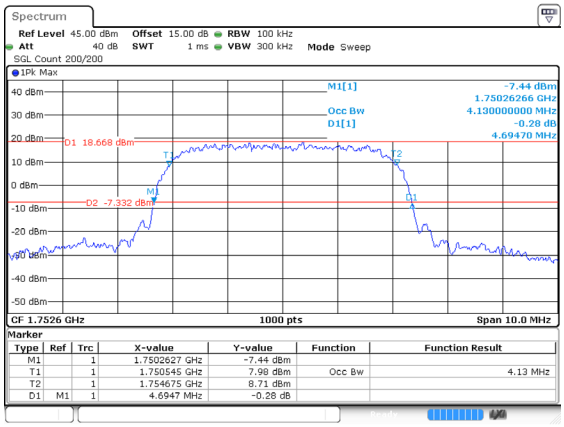
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:45:35

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel



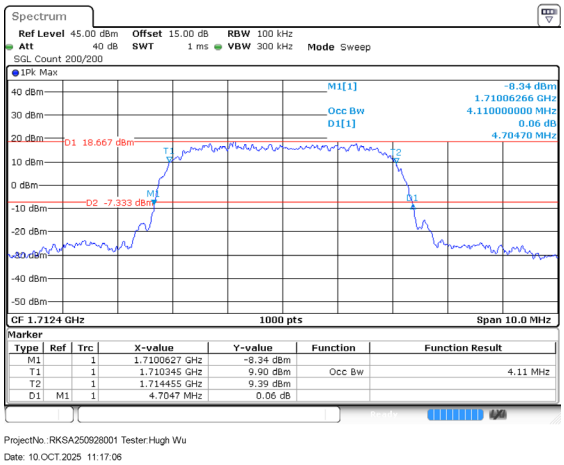
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:45:59

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel



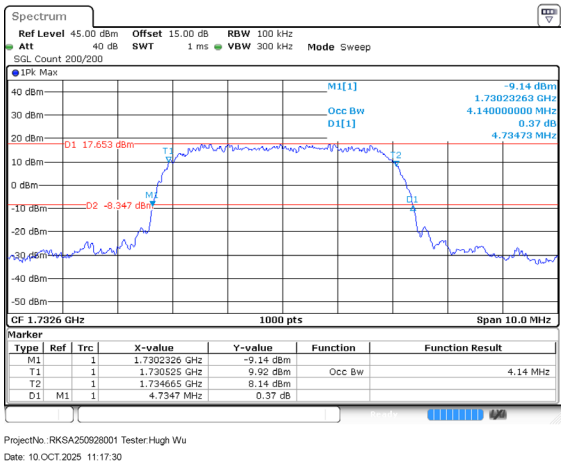
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 13:46:23

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel



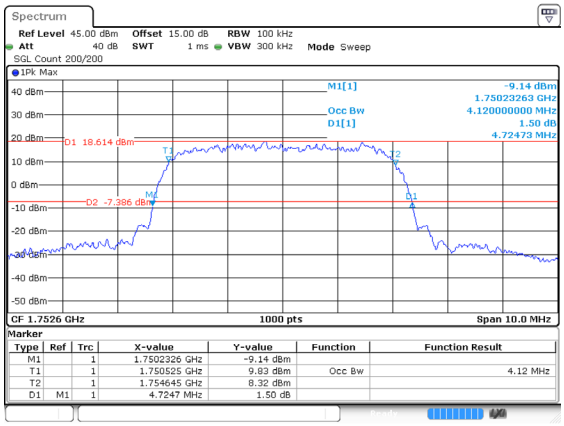
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:17:06

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel



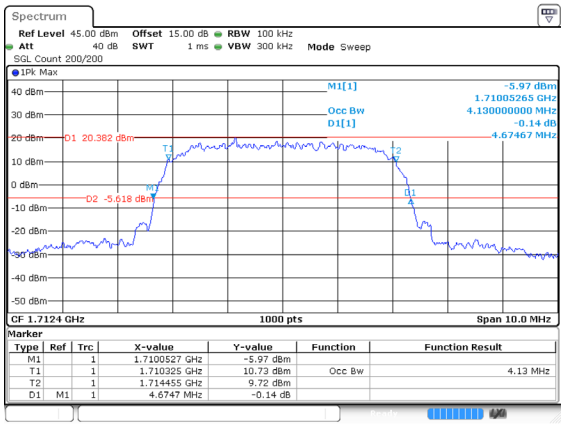
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:17:30

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) High channel



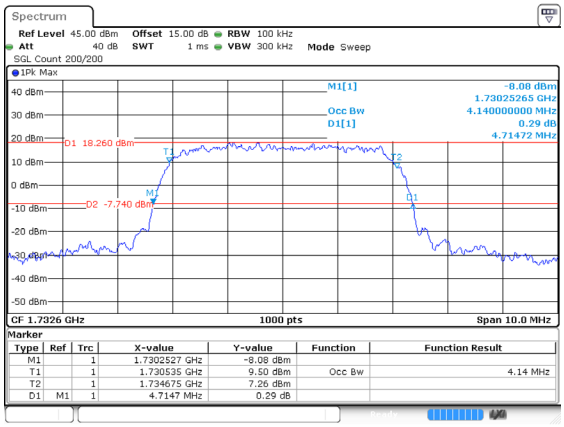
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 11:17:55

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel



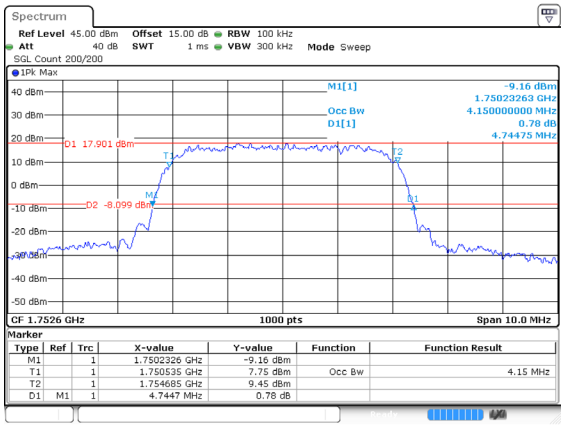
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:44:48

99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Middle channel



ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:45:11

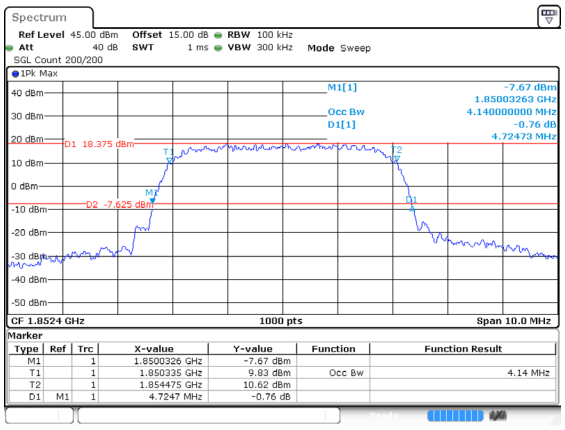
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel



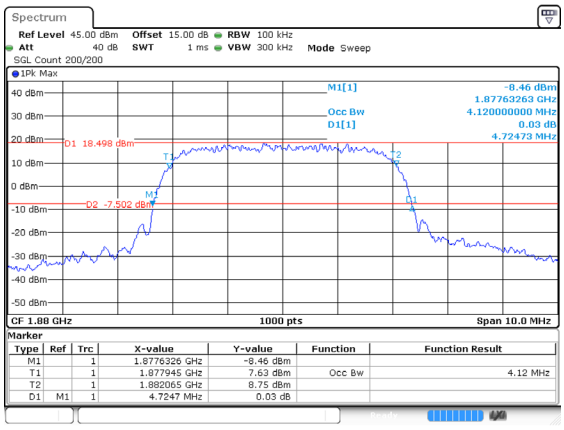
ProjectNo.:RKSA250928001 Tester:Hugh Wu
Date: 10.OCT.2025 15:45:34

WCDMA Band II

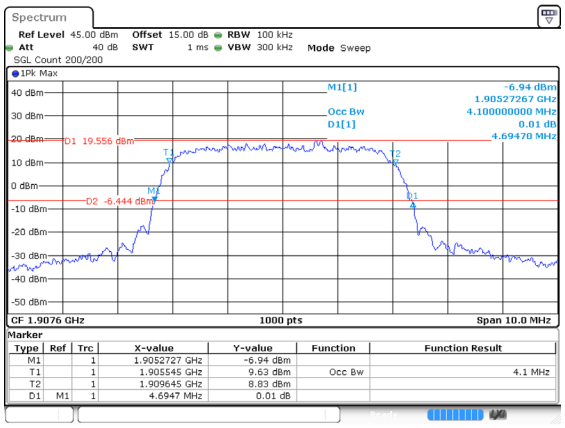
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



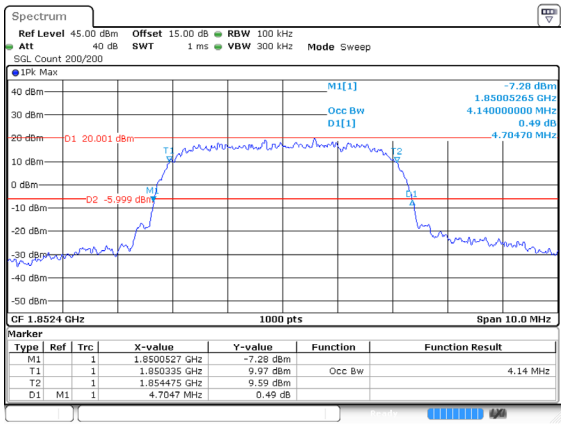
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel



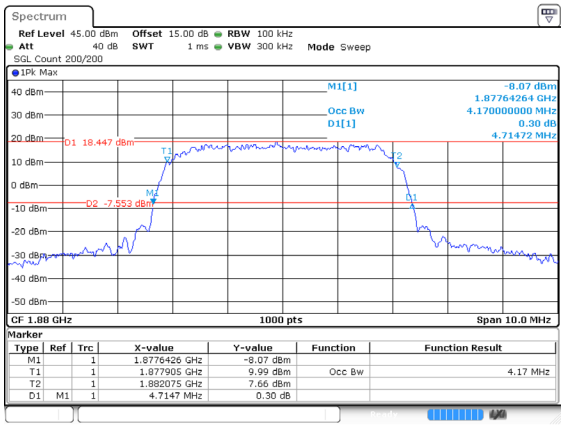
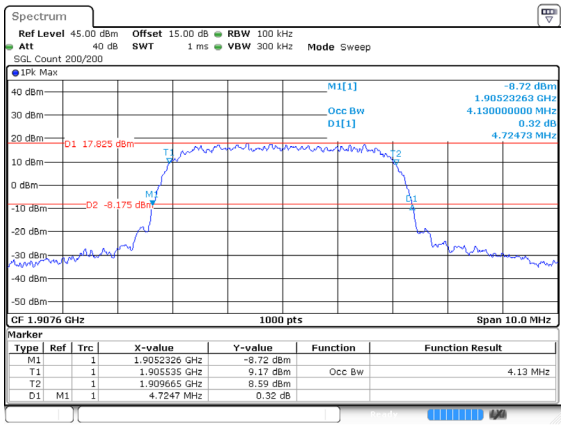
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) High channel



99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Low channel



99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) Middle channel



99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel