

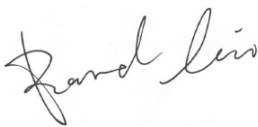
FCC PART 27
FCC PART 22H, PART 24E, PART 90
TEST REPORT

For

Miura Systems Ltd

Unit 3, Cliveden Office Village, Lancaster Road, Cressex Industrial Estate, High Wycombe,
United Kingdom

FCC ID: 2AO4FMASP01

Report Type: Original Report	Product Name: MASP01
Report Number:	<u>RKSA231206001-00E</u>
Report Date:	<u>2024-07-09</u>
Reviewed By:	<u>Bard Liu</u> 
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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.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA231206001-00E	R1V1	2024-07-09	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Miura Systems Ltd
Tested Model:	MASP01
Product Name:	MASP01
HVIN:	MASP01-1, MASP01-2
Power Supply:	DC 5V charging (USB-C or POGO Pins port) or DC 7.4V battery
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), 1930-1990 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 13: 777-787 MHz(TX), 746-756 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(TX), 2496-2690 MHz(RX) LTE Band 66: 1710-1780 MHz(TX), 2110-2200 MHz(RX)
Maximum Conducted Output Power:	GSM 850: 32.63 dBm; EGPRS 850: 25.98 dBm GSM 1900: 29.05 dBm; EGPRS 1900: 25.07 dBm WCDMA Band II: 22.36 dBm; Band IV: 22.32dBm; Band V: 22.60 dBm LTE: Band 2: 23.99 dBm; Band 4: 24.11 dBm; Band 5: 24.52; Band 7: 24.42 dBm; Band 12: 24.35 dBm; Band 13: 24.78 dBm; Band 17: 24.35 dBm; Band 25: 23.88 dBm; Band 26: 23.41 dBm; Band 41: 23.79 dBm; Band 66: 23.93 dBm
Modulation Type:	GPRS/EGPRS: GMSK, 8PSK WCDMA: BPSK, QPSK, 16QAM LTE: QPSK, 16QAM
Antenna Type:	FPC Antenna

★Maximum Antenna Gain :	GPRS/EGPRS 850: -2.93 dBi GPRS/EGPRS 1900: -1.32 dBi WCDMA Band II: -1.32 dBi WCDMA Band IV: -1.76 dBi WCDMA Band V: -2.93 dBi LTE Band 2: -1.32 dBi LTE Band 4: -1.76 dBi LTE Band 5: -2.93 dBi LTE Band 7: 1.65 dBi LTE Band 12: -3.82 dBi LTE Band 13: -3.98 dBi LTE Band 17: -3.82 dBi LTE Band 25: -1.32 dBi LTE Band 26: -2.93 dBi LTE Band 41: 1.65 dBi LTE Band 66: -1.01 dBi
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Adapter Information:

Model: ASSA107w-050500

Input: 100-240V~50/60Hz, 0.45A

Output: 5.0V, 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:

RKSA231206001-1(HVIN: MASP01-1)(Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2023-12-06.)

Objective

This type approval report is prepared for *Miura Systems 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 conducted test		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°C
Humidity		6%

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		Channel	Frequency (MHz)
GPRS/EGPRS 850		Low	824.2
		Middle	836.6
		High	848.8
GPRS/EGPRS 1900		Low	1850.2
		Middle	1880.0
		High	1909.8
WCDMA Band II		Low	1852.4
		Middle	1880.0
		High	1907.6
WCDMA Band IV		Low	1712.4
		Middle	1732.6
		High	1752.6
WCDMA Band V		Low	826.4
		Middle	836.6
		High	846.6
LTE Band 2	1.4M	Low	1850.7
		Middle	1880.0
		High	1909.3
	3M	Low	1851.5
		Middle	1880.0
		High	1908.5
	5M	Low	1852.5
		Middle	1880.0
		High	1907.5
	10M	Low	1855.0
		Middle	1880.0
		High	1905.0
	15M	Low	1857.5
		Middle	1880.0
		High	1902.5
	20M	Low	1860.0
		Middle	1880.0
		High	1900.0

Mode		Channel	Frequency (MHz)
LTE Band 4	1.4M	Low	1710.7
		Middle	1732.5
		High	1754.3
	3M	Low	1711.5
		Middle	1732.5
		High	1753.5
	5M	Low	1712.5
		Middle	1732.5
		High	1752.5
	10M	Low	1715.0
		Middle	1732.5
		High	1750.0
	15M	Low	1717.5
		Middle	1732.5
		High	1747.5
	20M	Low	1720.0
		Middle	1732.5
		High	1745.0
LTE Band 5	1.4M	Low	824.7
		Middle	836.5
		High	848.3
	3M	Low	825.5
		Middle	836.5
		High	847.5
	5M	Low	826.5
		Middle	836.5
		High	846.5
	10M	Low	829.0
		Middle	836.5
		High	844.0
LTE Band 7	5M	Low	2502.5
		Middle	2535.0
		High	2567.5
	10M	Low	2505.0
		Middle	2535.0
		High	2565.0
	15M	Low	2507.5
		Middle	2535.0
		High	2562.5
	20M	Low	2510.0
		Middle	2535.0
		High	2560.0

Mode		Channel	Frequency (MHz)
LTE Band 12	1.4M	Low	699.7
		Middle	707.5
		High	715.3
	3M	Low	700.5
		Middle	707.5
		High	714.5
	5M	Low	701.5
		Middle	707.5
		High	713.5
	10M	Low	704.0
		Middle	707.5
		High	711.0
LTE Band 13	5M	Low	779.5
		Middle	782.0
		High	784.5
	10M	Low	/
		Middle	782.0
		High	/
LTE Band 17	5M	Low	706.5
		Middle	710.0
		High	713.5
	10M	Low	709.0
		Middle	710.0
		High	711.0

Mode		Channel	Frequency (MHz)
LTE Band 25	1.4M	Low	1850.7
		Middle	1882.5
		High	1914.3
	3M	Low	1851.5
		Middle	1882.5
		High	1913.5
	5M	Low	1852.5
		Middle	1882.5
		High	1912.5
	10M	Low	1855.0
		Middle	1882.5
		High	1910.0
	15M	Low	1857.5
		Middle	1882.5
		High	1907.5
	20M	Low	1860.0
		Middle	1882.5
		High	1905.0
LTE Band 26	1.4M	Low	814.7
		Cross	824.0
		Middle	831.5
		High	848.3
	3M	Low	815.5
		Cross	824.0
		Middle	831.5
		High	847.5
	5M	Low	816.5
		Cross	824.0
		Middle	831.5
		High	846.5
	10M	Low	819.0
		Cross	824.0
		Middle	831.5
		High	844.0
	15M	Low	821.5
		Cross	824.0
		Middle	831.5
		High	841.5

Mode		Channel	Frequency (MHz)
LTE Band 41	5M	Low	2498.5
		Low Middle	2545.8
		Middle	2593.0
		High Middle	2640.30
		High	2687.5
	10M	Low	2501.0
		Low Middle	2547.0
		Middle	2593.0
		High Middle	2639.0
		High	2685.0
	15M	Low	2503.5
		Low Middle	2548.3
		Middle	2593.0
		High Middle	2637.8
		High	2682.5
	20M	Low	2506.0
		Low Middle	2549.5
		Middle	2593.0
		High Middle	2636.5
		High	2680.0
LTE Band 66	1.4M	Low	1710.7
		Middle	1745.0
		High	1779.3
	3M	Low	1711.5
		Middle	1745.0
		High	1778.5
	5M	Low	1712.5
		Middle	1745.0
		High	1777.5
	10M	Low	1715.0
		Middle	1745.0
		High	1775.0
	15M	Low	1717.5
		Middle	1745.0
		High	1772.5
	20M	Low	1720.0
		Middle	1745.0
		High	1770.0

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

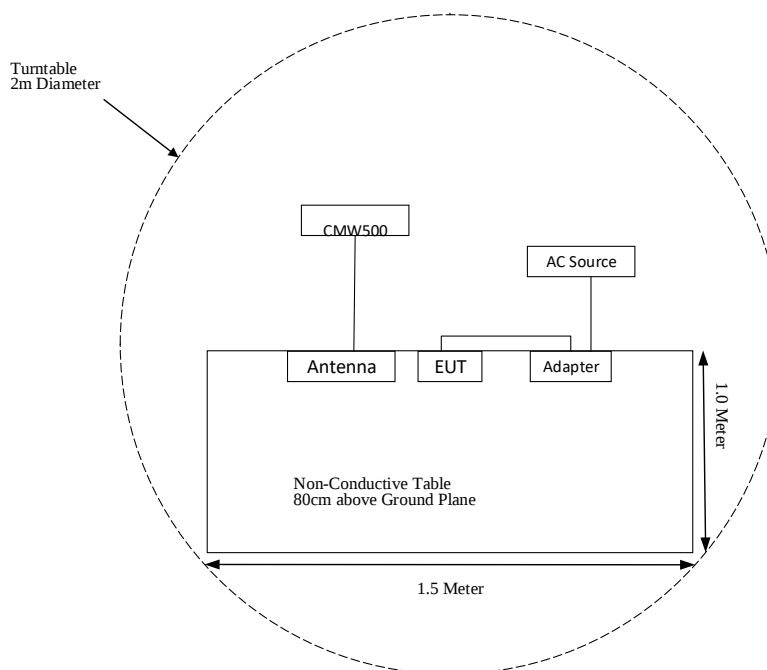
Manufacturer	Description	Model	Serial Number
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478

External I/O Cable

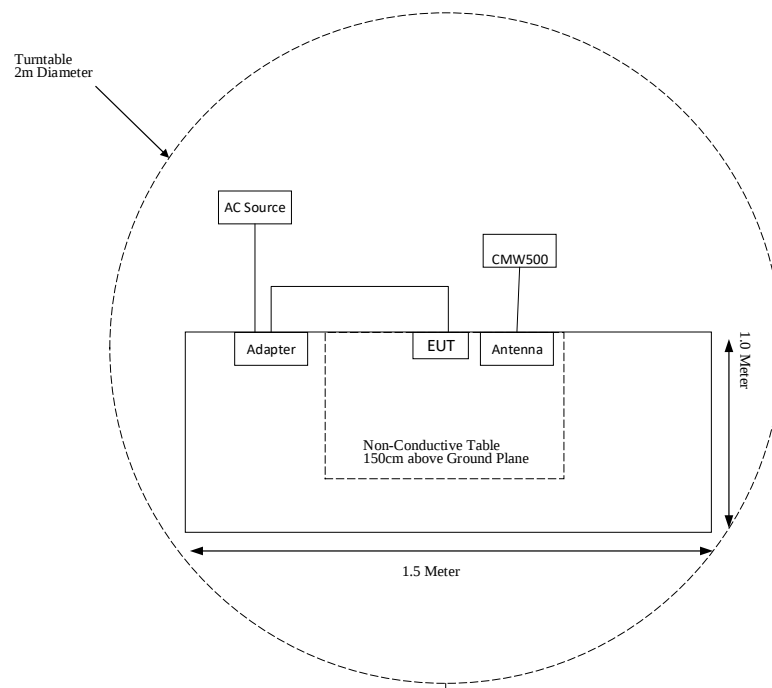
Cable Description	Length (m)	From Port	To Port
USB Cable	1.0	EUT	Adapter
Power Cable	1.0	Adapter	AC Source

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2023-05-23	2024-05-22
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Keysight	Signal Generator	N5183A	MY47420304	2023-05-23	2024-05-22
Keysight	Signal Generator	N5183A	MY47420304	2024-04-24	2025-04-23
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2023-11-11	2024-11-10
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2023-01-12	2026-01-11
Sonoma Instrument	Amplifier	310N	171205	2023-05-23	2024-05-22
Sonoma Instrument	Amplifier	310N	171205	2024-04-23	2025-04-22
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-7	007	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-7	007	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-8	008	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2023-05-22	2024-05-21
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2024-04-23	2025-04-22
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2023-05-19	2024-05-18
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2023-06-27	2026-06-26
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-04-25	2025-04-24
ETS-LINDGREN	Horn Antenna	3115	6229	2023-01-16	2026-01-15
ETS-LINDGREN	Horn Antenna	3116	2516	2023-12-08	2024-12-07
ETS-LINDGREN	Horn Antenna	3116	84159	2023-12-08	2024-12-07
Wi	Band reject filter	SN1	WRCGV5-804-824-849-869-30SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN1	WRCGV5-804-824-849-869-30SS	2024-04-23	2025-04-22
Wi	Band reject filter	SN1	WRCGV6-1830-1850-1910-1930-30SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN1	WRCGV6-1830-1850-1910-1930-30SS	2024-04-23	2025-04-22

Wi	Band reject filter	SN1	WRCGV8- 1695-1710- 1755-1770- 30SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN1	WRCGV8- 1695-1710- 1755-1770- 30SS	2024-04-23	2025-04-22
Wi	Band reject filter	SN3	WRCJV8- 2450-2500- 2570-2620- 40SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN3	WRCJV8- 2450-2500- 2570-2620- 40SS	2024-04-23	2025-04-22
Wi	Band reject filter	SN2	WRCT16-697- 699-716-718- 60SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN2	WRCT16-697- 699-716-718- 60SS	2024-04-23	2025-04-22
Wi	Band reject filter	SN1	WRCGV5- 765-777-787- 799-35SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN1	WRCGV5- 765-777-787- 799-35SS	2024-04-23	2025-04-22
Wi	Band reject filter	SN1	WRCJV8- 2550-2570- 2620-2640- 30SS	2023-05-23	2024-05-22
Wi	Band reject filter	SN1	WRCJV8- 2550-2570- 2620-2640- 30SS	2024-04-23	2025-04-22

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
A.H.Systems,inc	Amplifier	PAM-0118P	512	2023-05-23	2024-05-22
A.H.Systems,inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
EM Electronics Corporation	Amplifier	EM18G40G	060726	2023-05-23	2024-05-22
EM Electronics Corporation	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-13	013	2023-05-23	2024-05-22
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-23	2025-04-22
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2023-05-23	2024-05-22
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2024-04-24	2025-04-23
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2023-05-23	2024-05-22
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
BACL	Temperature & Humidity Chamber	BTH-150	30023	2023-05-23	2024-05-22
BACL	Temperature & Humidity Chamber	BTH-150	30023	2024-04-25	2025-04-24
EAST	Regulated DC Power Supply	MCH-303D-II	14070562	2023-10-10	2024-10-09
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2023-05-22	2024-05-21
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	104478	2024-04-24	2025-04-23
Narda	Attenuator	10dB	010	2023-05-23	2024-05-22
Narda	Attenuator	10dB	010	2024-05-23	2025-05-22
MACOM	Power Splitter	2090-6214-00	96341	2023-05-23	2024-05-22
MACOM	Power Splitter	2090-6214-00	96341	2024-05-23	2025-05-22
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 (b)(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 (c) (f) (g) (h) (m); §90.691	Spurious Emissions at Antenna Terminal	Compliant
§2.1053; §22.917 (a) §24.238 (a); §27.53 (c) (f) (g) (h) (m); §90.691	Spurious Radiated Emissions	Compliant
§22.917 (a); §24.238 (a); §27.53 (c) (f) (g) (h) (m); §90.691	Band Edge	Compliant
§2.1055; §22.355; §24.235; §27.54; §90.213	Frequency stability	Compliant

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 (b) (c) (d) (h); §90.635 (b) - RF OUTPUT POWER

Applicable Standards

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.

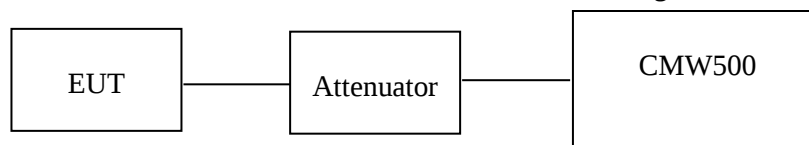
According to § 27.50(b) (10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

Test Procedure

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5

Conducted method:

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



Test Data: See appendix A

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

Applicable Standards

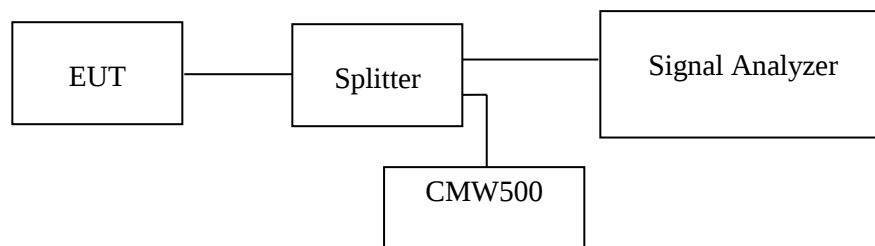
FCC 47 §2.1049, §22.917, §22.905; §24.238; §27.53; §90.209.

Test Procedure

According to CFR Part 2.1049, ANSI C63.26-2015 Section 5.4.4

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

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) & 100 kHz (WCDMA) & 30 kHz/50 kHz/100 kHz/200 kHz (LTE), and the 26 dB & 99% bandwidth was recorded.



Test Data: See appendix A & appendix C

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

Applicable Standards

FCC §2.1051, §22.917(a), §24.238(a), §27.53 (c) (f) (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 (c)

c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the 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, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

27.53(f)

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 $43 + 10 \log_{10}(P)$ 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 than $43 + 10 \log(P)$ 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.

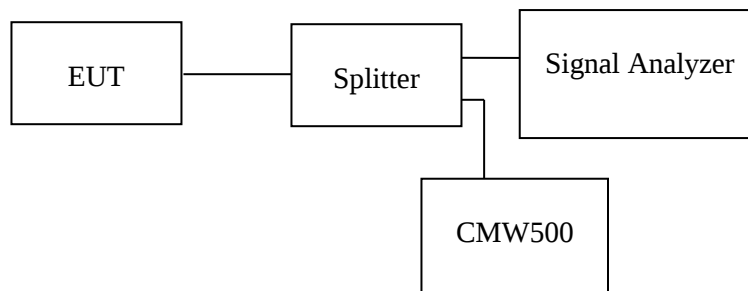
According to §27.53(m), for mobile digital stations, any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB.

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 5.7.4

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.



Test Data: See Appendix A&D

FCC § 2.1053; § 22.917 (a); § 24.238 (a) & §27.53 (c) (f) (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 (c) (f) (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(h) (m), 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 than $43 + 10 \log (P)$ 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.

27.53(f)

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 $43 + 10 \log_{10} (P)$ 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 than $43 + 10 \log (P)$ 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.

Spurious emissions in dB = $10 \lg (\text{TX pwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

Test Data: See Appendix A

FCC § 22.917 (a); § 24.238 (a); § 27.53 (c) (f) (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(h) (m), 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 than $43 + 10 \log (P)$ 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.

27.53(f)

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 $43 + 10 \log (P)$ 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 than $43 + 10 \log (P)$ 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.

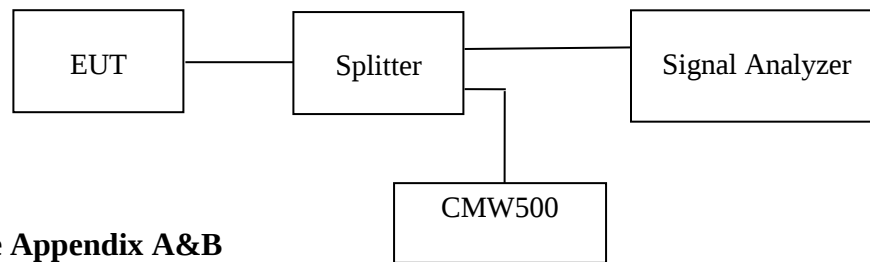
Rule Part 90.691 specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Test Procedure

According to ANSI C63.26-2015 Section 5.7.3:

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.



Test Data: See Appendix A&B

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.

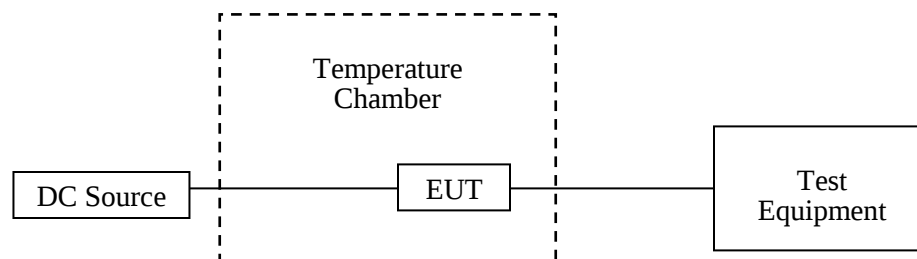
Test Procedure

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 D - TEST SETUP PHOTOGRAPHS.

APPENDIX A - TEST DATA

Environmental Conditions & Test Information

Test Item:	FREQUENCY STABILITY	TRANSMITTER OUTPUT POWER	OCCUPIED BANDWIDTH	CONDUCTED TRANSMITTER UNWANTED EMISSIONS	SPURIOUS RADIATED EMISSIONS	Band Edge
Test Date:	2024-02-18	2024-02-18	2024-02-22 to 2024-07-09	2024-02-23 to 2024-07-09	2024-02-23 to 2024-07-09	2024-02-22 to 2024-07-09
Temperature:	17.3 °C	17.3 °C	17.5-23.5 °C	17.3-23.5 °C	17.3-23.5 °C	17.5-23.5 °C
Relative Humidity:	51 %	51 %	50-55 %	42-50 %	42-50 %	45-50 %
ATM Pressure:	101.8 kPa	101.8 kPa	100.4-101.5	100.4-101.6	100.4-101.6	100.4-102.0
Test Result:	Pass	Pass	Pass	Pass	Pass	Pass
Test Engineer:	Bard Liu	Bard Liu	Bard Liu & Jason Lu	Bard Liu & Jason Lu	Bard Liu & Jason Lu	Bard Liu & Jason Lu

RF OUTPUT POWER**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	32.49	32.33	32.16	31.92	27.41	27.25	27.08	26.84	38.45
	190	836.6	32.63	32.41	32.28	32.08	27.55	27.33	27.20	27.00	38.45
	251	848.8	32.58	32.35	32.16	32.05	27.50	27.27	27.08	26.97	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	25.86	25.52	25.34	25.16	20.78	20.44	20.26	20.08	38.45
	190	836.6	25.76	25.43	25.31	25.14	20.68	20.35	20.23	20.06	38.45
	251	848.8	25.98	25.70	25.44	25.23	20.90	20.62	20.36	20.15	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	29.05	28.95	28.82	28.70	27.73	27.63	27.50	27.38	33
	661	1880	29.00	28.97	28.86	28.73	27.68	27.65	27.54	27.41	33
	810	1909.8	28.89	28.83	28.68	28.60	27.57	27.51	27.36	27.28	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	24.59	24.40	24.30	24.24	23.27	23.08	22.98	22.92	33
	661	1880	24.92	24.79	24.56	24.52	23.60	23.47	23.24	23.20	33
	810	1909.8	25.07	24.89	24.76	24.45	23.75	23.57	23.44	23.13	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		22.35	22.36	22.31	21.03	21.04	20.99
	HSDPA	1	21.95	22.04	22.17	20.63	20.72	20.85
		2	22.12	22.09	22.03	20.80	20.77	20.71
		3	22.07	22.07	22.18	20.75	20.75	20.86
		4	21.98	22.09	22.11	20.66	20.77	20.79
	HSUPA	1	22.14	22.01	22.04	20.82	20.69	20.72
		2	22.11	22.06	22.07	20.79	20.74	20.75
		3	22.06	22.07	22.16	20.74	20.75	20.84
		4	22.05	21.98	22.26	20.73	20.66	20.94
		5	22.09	21.99	22.15	20.77	20.67	20.83
	HUPA+	1	22.13	22.17	22.10	20.81	20.85	20.78

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

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		22.60	22.27	22.54	17.52	17.19	17.46
	HSDPA	1	22.26	22.02	22.20	17.18	16.94	17.12
		2	22.36	22.00	22.18	17.28	16.92	17.10
		3	22.23	22.11	22.08	17.15	17.03	17.00
		4	22.21	22.02	22.16	17.13	16.94	17.08
	HSUPA	1	22.26	22.05	22.15	17.18	16.97	17.07
		2	22.24	22.07	22.11	17.16	16.99	17.03
		3	22.28	22.10	22.19	17.20	17.02	17.11
		4	22.19	22.04	22.17	17.11	16.96	17.09
		5	22.33	22.02	22.24	17.25	16.94	17.16
	HUPA+	1	22.15	21.96	22.11	20.83	20.64	20.79

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

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		22.32	22.10	22.09	20.56	20.34	20.33
	HSDPA	1	22.16	22.03	22.19	20.40	20.27	20.43
		2	22.28	21.99	22.24	20.52	20.23	20.48
		3	22.21	22.06	22.23	20.45	20.30	20.47
		4	22.28	22.17	22.22	20.52	20.41	20.46
	HSUPA	1	22.21	22.00	22.18	20.45	20.24	20.42
		2	22.11	22.19	22.25	20.35	20.43	20.49
		3	22.02	22.16	22.12	20.26	20.40	20.36
		4	22.27	22.00	22.20	20.51	20.24	20.44
		5	22.23	21.96	22.02	20.47	20.20	20.26
	HUPA+	1	22.27	22.06	22.20	20.95	20.74	20.88

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

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	23.95	23.71	23.65	22.63	22.39	22.33
		1#3	23.64	23.67	23.64	22.32	22.35	22.32
		1#5	23.76	23.71	23.65	22.44	22.39	22.33
		3#0	23.68	23.63	23.62	22.36	22.31	22.30
		3#3	23.66	23.63	23.67	22.34	22.31	22.35
		6#0	23.63	23.66	23.63	22.31	22.34	22.31
	16QAM	1#0	23.67	23.78	23.67	22.35	22.46	22.35
		1#3	23.77	23.66	23.63	22.45	22.34	22.31
		1#5	23.64	23.73	23.75	22.32	22.41	22.43
		3#0	23.76	23.71	23.75	22.44	22.39	22.43
		3#3	23.61	23.76	23.71	22.29	22.44	22.39
		6#0	23.69	23.71	23.78	22.37	22.39	22.46
3	QPSK	1#0	23.67	23.68	23.64	22.35	22.36	22.32
		1#8	23.66	23.79	23.74	22.34	22.47	22.42
		1#14	23.76	23.66	23.76	22.44	22.34	22.44
		6#0	23.71	23.80	23.70	22.39	22.48	22.38
		6#9	23.80	23.79	23.70	22.48	22.47	22.38
		15#0	23.72	23.69	23.70	22.40	22.37	22.38
	16QAM	1#0	23.69	23.66	23.73	22.37	22.34	22.41
		1#8	23.78	23.73	23.64	22.46	22.41	22.32
		1#14	23.66	23.68	23.62	22.34	22.36	22.30
		6#0	23.67	23.71	23.62	22.35	22.39	22.30
		6#9	23.67	23.63	23.79	22.35	22.31	22.47
		15#0	23.75	23.66	23.78	22.43	22.34	22.46

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	23.95	23.61	23.66	22.63	22.29	22.34
		1#13	23.72	23.78	23.80	22.40	22.46	22.48
		1#24	23.73	23.65	23.75	22.41	22.33	22.43
		15#0	23.75	23.69	23.77	22.43	22.37	22.45
		15#10	23.81	23.72	23.70	22.49	22.40	22.38
		25#0	23.69	23.61	23.81	22.37	22.29	22.49
	16QAM	1#0	23.62	23.74	23.64	22.30	22.42	22.32
		1#13	23.68	23.68	23.63	22.36	22.36	22.31
		1#24	23.65	23.70	23.64	22.33	22.38	22.32
		15#0	23.62	23.78	23.70	22.30	22.46	22.38
		15#10	23.78	23.65	23.66	22.46	22.33	22.34
		25#0	23.69	23.78	23.79	22.37	22.46	22.47
10	QPSK	1#0	23.75	23.76	23.65	22.43	22.44	22.33
		1#25	23.80	23.72	23.77	22.48	22.40	22.45
		1#49	23.78	23.70	23.62	22.46	22.38	22.30
		25#0	23.72	23.64	23.64	22.40	22.32	22.32
		25#25	23.62	23.71	23.79	22.30	22.39	22.47
		50#0	23.73	23.62	23.72	22.41	22.30	22.40
	16QAM	1#0	23.74	23.67	23.64	22.42	22.35	22.32
		1#25	23.69	23.67	23.79	22.37	22.35	22.47
		1#49	23.73	23.72	23.62	22.41	22.40	22.30
		25#0	23.61	23.66	23.65	22.29	22.34	22.33
		25#25	23.81	23.79	23.61	22.49	22.47	22.29
		50#0	23.70	23.80	23.73	22.38	22.48	22.41

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	23.95	23.77	23.75	22.63	22.45	22.43
		1#38	23.68	23.72	23.63	22.36	22.40	22.31
		1#74	23.61	23.73	23.62	22.29	22.41	22.30
		36#0	23.78	23.65	23.81	22.46	22.33	22.49
		36#39	23.70	23.74	23.77	22.38	22.42	22.45
		75#0	23.73	23.77	23.79	22.41	22.45	22.47
	16QAM	1#0	23.64	23.72	23.69	22.32	22.40	22.37
		1#38	23.75	23.70	23.72	22.43	22.38	22.40
		1#74	23.67	23.81	23.73	22.35	22.49	22.41
		36#0	23.74	23.67	23.77	22.42	22.35	22.45
		36#39	23.73	23.68	23.80	22.41	22.36	22.48
		75#0	23.78	23.77	23.66	22.46	22.45	22.34
20	QPSK	1#0	23.99	23.51	23.76	22.67	22.19	22.44
		1#50	23.67	23.63	23.73	22.35	22.31	22.41
		1#99	23.71	23.71	23.72	22.39	22.39	22.40
		50#0	23.77	23.72	23.77	22.45	22.40	22.45
		50#50	23.66	23.65	23.77	22.34	22.33	22.45
		100#0	23.74	23.64	23.76	22.42	22.32	22.44
	16QAM	1#0	23.62	23.71	23.74	22.30	22.39	22.42
		1#50	23.76	23.64	23.75	22.44	22.32	22.43
		1#99	23.61	23.77	23.77	22.29	22.45	22.45
		50#0	23.72	23.78	23.70	22.40	22.46	22.38
		50#50	23.66	23.71	23.72	22.34	22.39	22.40
		100#0	23.65	23.70	23.80	22.33	22.38	22.48

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	23.31	23.37	23.19	21.55	21.61	21.43
		1#3	23.60	23.94	23.64	21.84	22.18	21.88
		1#5	23.86	23.73	23.83	22.10	21.97	22.07
		3#0	23.62	23.69	23.71	21.86	21.93	21.95
		3#3	23.89	23.63	23.87	22.13	21.87	22.11
		6#0	23.68	23.69	23.72	21.92	21.93	21.96
	16QAM	1#0	23.64	23.59	23.88	21.88	21.83	22.12
		1#3	23.89	23.71	23.94	22.13	21.95	22.18
		1#5	23.63	23.61	24.09	21.87	21.85	22.33
		3#0	23.85	23.84	23.84	22.09	22.08	22.08
		3#3	23.77	23.81	23.90	22.01	22.05	22.14
		6#0	23.72	23.71	23.95	21.96	21.95	22.19
3	QPSK	1#0	24.02	23.72	23.91	22.26	21.96	22.15
		1#8	23.92	23.72	23.89	22.16	21.96	22.13
		1#14	23.63	23.98	23.81	21.87	22.22	22.05
		6#0	23.83	23.64	23.90	22.07	21.88	22.14
		6#9	23.82	23.95	23.91	22.06	22.19	22.15
		15#0	23.77	24.07	23.99	22.01	22.31	22.23
	16QAM	1#0	23.82	23.77	24.01	22.06	22.01	22.25
		1#8	23.77	23.99	23.93	22.01	22.23	22.17
		1#14	23.81	23.96	23.79	22.05	22.20	22.03
		6#0	23.72	23.59	24.01	21.96	21.83	22.25
		6#9	23.59	24.07	23.92	21.83	22.31	22.16
		15#0	23.92	23.59	23.89	22.16	21.83	22.13

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	23.66	23.79	23.70	21.90	22.03	21.94
		1#13	23.96	24.00	23.70	22.20	22.24	21.94
		1#24	23.61	23.89	24.03	21.85	22.13	22.27
		15#0	23.72	23.89	23.83	21.96	22.13	22.07
		15#10	23.80	23.73	23.93	22.04	21.97	22.17
		25#0	23.60	23.94	23.81	21.84	22.18	22.05
	16QAM	1#0	23.91	23.70	23.80	22.15	21.94	22.04
		1#13	23.61	23.92	23.98	21.85	22.16	22.22
		1#24	23.84	23.86	24.00	22.08	22.10	22.24
		15#0	23.93	23.90	23.82	22.17	22.14	22.06
		15#10	23.82	23.69	23.70	22.06	21.93	21.94
		25#0	23.76	24.04	23.95	22.00	22.28	22.19
10	QPSK	1#0	23.92	24.09	23.97	22.16	22.33	22.21
		1#25	23.76	23.95	23.79	22.00	22.19	22.03
		1#49	23.71	23.77	24.05	21.95	22.01	22.29
		25#0	23.88	23.69	23.72	22.12	21.93	21.96
		25#25	23.53	23.73	23.92	21.77	21.97	22.16
		50#0	23.85	23.81	23.65	22.09	22.05	21.89
	16QAM	1#0	23.97	24.06	23.97	22.21	22.30	22.21
		1#25	23.78	23.81	23.89	22.02	22.05	22.13
		1#49	23.73	23.81	23.68	21.97	22.05	21.92
		25#0	23.97	23.74	24.06	22.21	21.98	22.30
		25#25	23.85	23.78	23.87	22.09	22.02	22.11
		50#0	23.74	23.94	23.73	21.98	22.18	21.97

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	23.71	23.90	24.06	21.95	22.14	22.30
		1#38	23.70	23.97	23.99	21.94	22.21	22.23
		1#74	23.62	23.84	24.10	21.86	22.08	22.34
		36#0	23.66	23.59	23.91	21.90	21.83	22.15
		36#39	23.70	23.75	23.91	21.94	21.99	22.15
		75#0	23.67	23.95	23.90	21.91	22.19	22.14
	16QAM	1#0	23.70	23.59	23.93	21.94	21.83	22.17
		1#38	23.89	23.82	23.94	22.13	22.06	22.18
		1#74	23.84	23.64	23.88	22.08	21.88	22.12
		36#0	23.83	23.78	23.87	22.07	22.02	22.11
		36#39	23.88	23.84	23.73	22.12	22.08	21.97
		75#0	23.89	23.91	23.95	22.13	22.15	22.19
20	QPSK	1#0	23.78	23.76	24.11	22.02	22.00	22.35
		1#50	23.86	23.87	24.09	22.10	22.11	22.33
		1#99	23.67	23.72	23.62	21.91	21.96	21.86
		50#0	23.71	23.67	23.74	21.95	21.91	21.98
		50#50	23.89	23.84	24.04	22.13	22.08	22.28
		100#0	24.01	23.72	23.86	22.25	21.96	22.10
	16QAM	1#0	23.78	23.63	23.77	22.02	21.87	22.01
		1#50	23.85	23.96	23.93	22.09	22.20	22.17
		1#99	23.66	23.82	23.67	21.90	22.06	21.91
		50#0	23.77	23.94	23.98	22.01	22.18	22.22
		50#50	23.63	23.64	23.88	21.87	21.88	22.12
		100#0	23.78	23.60	23.97	22.02	21.84	22.21

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

Limit: EIRP ≤ 30 dBm

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	23.66	23.81	24.05	18.58	18.73	18.97
		1#3	23.69	23.77	23.98	18.61	18.69	18.90
		1#5	23.88	23.68	23.70	18.80	18.60	18.62
		3#0	24.03	23.88	23.91	18.95	18.80	18.83
		3#3	23.55	23.62	23.98	18.47	18.54	18.90
		6#0	23.85	23.88	23.77	18.77	18.80	18.69
	16QAM	1#0	23.78	23.92	23.89	18.70	18.84	18.81
		1#3	23.65	24.05	24.03	18.57	18.97	18.95
		1#5	23.85	23.73	23.97	18.77	18.65	18.89
		3#0	23.99	23.85	23.71	18.91	18.77	18.63
		3#3	24.02	23.79	23.97	18.94	18.71	18.89
		6#0	23.75	23.70	23.78	18.67	18.62	18.70
3	QPSK	1#0	23.81	23.96	23.93	18.73	18.88	18.85
		1#8	23.60	23.79	23.88	18.52	18.71	18.80
		1#14	24.08	24.08	23.90	19.00	19.00	18.82
		6#0	23.74	23.85	23.85	18.66	18.77	18.77
		6#9	23.82	23.60	23.91	18.74	18.52	18.83
		15#0	23.80	23.93	23.90	18.72	18.85	18.82
	16QAM	1#0	23.77	23.99	23.75	18.69	18.91	18.67
		1#8	23.81	23.71	24.06	18.73	18.63	18.98
		1#14	23.83	23.75	23.73	18.75	18.67	18.65
		6#0	23.56	23.85	23.64	18.48	18.77	18.56
		6#9	23.87	24.00	23.89	18.79	18.92	18.81
		15#0	23.76	24.00	24.09	18.68	18.92	19.01

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	24.49	24.42	24.44	19.41	19.34	19.36
		1#13	23.99	23.89	23.88	18.91	18.81	18.80
		1#24	23.92	23.87	24.09	18.84	18.79	19.01
		15#0	23.85	23.83	23.90	18.77	18.75	18.82
		15#10	23.62	23.90	23.94	18.54	18.82	18.86
		25#0	23.69	23.76	23.77	18.61	18.68	18.69
	16QAM	1#0	23.81	23.95	23.95	18.73	18.87	18.87
		1#13	23.92	23.92	24.02	18.84	18.84	18.94
		1#24	23.64	23.89	23.86	18.56	18.81	18.78
		15#0	23.77	23.77	23.91	18.69	18.69	18.83
		15#10	23.82	23.83	24.01	18.74	18.75	18.93
		25#0	23.93	23.72	23.90	18.85	18.64	18.82
10	QPSK	1#0	24.52	24.22	24.36	19.44	19.14	19.28
		1#25	23.90	23.69	23.68	18.82	18.61	18.60
		1#49	23.71	23.87	23.91	18.63	18.79	18.83
		25#0	23.61	23.84	23.90	18.53	18.76	18.82
		25#25	23.72	23.70	24.03	18.64	18.62	18.95
		50#0	23.80	23.77	23.79	18.72	18.69	18.71
	16QAM	1#0	23.83	23.86	24.04	18.75	18.78	18.96
		1#25	23.65	24.03	23.88	18.57	18.95	18.80
		1#49	23.80	23.90	23.75	18.72	18.82	18.67
		25#0	23.86	23.92	24.00	18.78	18.84	18.92
		25#25	23.71	23.80	23.87	18.63	18.72	18.79
		50#0	23.97	23.82	23.71	18.89	18.74	18.63

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	23.81	23.88	24.04	25.46	25.53	25.69
		1#13	24.09	24.04	24.26	25.74	25.69	25.91
		1#24	24.08	24.11	23.94	25.73	25.76	25.59
		15#0	24.20	24.03	24.21	25.85	25.68	25.86
		15#10	24.13	23.89	24.09	25.78	25.54	25.74
		25#0	24.10	24.03	24.18	25.75	25.68	25.83
	16QAM	1#0	24.23	24.15	24.06	25.88	25.80	25.71
		1#13	24.14	24.10	24.11	25.79	25.75	25.76
		1#24	24.20	24.38	24.08	25.85	26.03	25.73
		15#0	24.13	23.96	24.12	25.78	25.61	25.77
		15#10	24.24	24.10	24.17	25.89	25.75	25.82
		25#0	23.97	24.07	24.04	25.62	25.72	25.69
10	QPSK	1#0	24.17	24.22	23.99	25.82	25.87	25.64
		1#25	24.24	23.97	24.09	25.89	25.62	25.74
		1#49	24.36	24.14	24.22	26.01	25.79	25.87
		25#0	24.10	24.27	24.19	25.75	25.92	25.84
		25#25	24.36	23.90	24.00	26.01	25.55	25.65
		50#0	24.17	24.12	24.38	25.82	25.77	26.03
	16QAM	1#0	23.86	24.00	24.18	25.51	25.65	25.83
		1#25	23.96	24.21	24.04	25.61	25.86	25.69
		1#49	24.08	24.16	23.89	25.73	25.81	25.54
		25#0	24.36	24.15	24.00	26.01	25.80	25.65
		25#25	24.22	24.29	24.17	25.87	25.94	25.82
		50#0	23.97	24.24	24.09	25.62	25.89	25.74

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	23.75	24.16	24.08	25.40	25.81	25.73
		1#38	24.29	24.00	24.14	25.94	25.65	25.79
		1#74	24.06	24.02	24.09	25.71	25.67	25.74
		36#0	24.07	24.19	24.02	25.72	25.84	25.67
		36#39	24.31	24.16	24.19	25.96	25.81	25.84
		75#0	24.30	24.20	24.35	25.95	25.85	26.00
	16QAM	1#0	24.06	23.94	24.11	25.71	25.59	25.76
		1#38	24.16	23.98	23.89	25.81	25.63	25.54
		1#74	24.25	24.08	24.23	25.90	25.73	25.88
		36#0	24.16	23.97	23.92	25.81	25.62	25.57
		36#39	24.11	24.07	24.16	25.76	25.72	25.81
		75#0	24.16	23.88	23.99	25.81	25.53	25.64
20	QPSK	1#0	24.04	24.12	24.42	25.69	25.77	26.07
		1#50	24.35	24.13	24.13	26.00	25.78	25.78
		1#99	23.88	24.16	24.22	25.53	25.81	25.87
		50#0	24.09	24.18	24.28	25.74	25.83	25.93
		50#50	24.28	24.18	24.34	25.93	25.83	25.99
		100#0	24.09	24.07	24.33	25.74	25.72	25.98
	16QAM	1#0	24.10	24.05	24.08	25.75	25.70	25.73
		1#50	23.98	24.21	24.15	25.63	25.86	25.80
		1#99	23.99	24.11	23.95	25.64	25.76	25.60
		50#0	23.96	24.13	24.17	25.61	25.78	25.82
		50#50	23.99	24.13	24.24	25.64	25.78	25.89
		100#0	24.11	24.17	23.97	25.76	25.82	25.62

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	24.16	24.11	24.02	18.19	18.14	18.05
		1#3	24.01	24.17	23.95	18.04	18.20	17.98
		1#5	24.17	24.16	24.12	18.20	18.19	18.15
		3#0	23.96	24.24	24.10	17.99	18.27	18.13
		3#3	24.11	24.03	23.95	18.14	18.06	17.98
		6#0	24.27	24.06	24.13	18.30	18.09	18.16
	16QAM	1#0	24.06	24.20	24.04	18.09	18.23	18.07
		1#3	23.95	24.06	24.01	17.98	18.09	18.04
		1#5	24.06	24.11	24.16	18.09	18.14	18.19
		3#0	24.25	24.14	23.94	18.28	18.17	17.97
		3#3	24.30	24.01	24.12	18.33	18.04	18.15
		6#0	23.86	24.31	24.32	17.89	18.34	18.35
3	QPSK	1#0	24.09	24.03	24.02	18.12	18.06	18.05
		1#8	24.08	23.90	24.21	18.11	17.93	18.24
		1#14	24.11	24.00	23.89	18.14	18.03	17.92
		6#0	24.14	24.17	24.07	18.17	18.20	18.10
		6#9	23.96	24.21	24.17	17.99	18.24	18.20
		15#0	23.95	24.33	24.07	17.98	18.36	18.10
	16QAM	1#0	23.91	23.90	24.17	17.94	17.93	18.20
		1#8	24.05	24.17	24.19	18.08	18.20	18.22
		1#14	24.14	23.92	24.04	18.17	17.95	18.07
		6#0	24.09	23.95	24.24	18.12	17.98	18.27
		6#9	23.94	23.85	24.20	17.97	17.88	18.23
		15#0	24.07	23.92	24.20	18.10	17.95	18.23

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	24.09	24.16	24.13	18.12	18.19	18.16
		1#13	24.05	24.16	24.00	18.08	18.19	18.03
		1#24	24.21	24.13	24.18	18.24	18.16	18.21
		15#0	24.18	24.18	24.21	18.21	18.21	18.24
		15#10	24.27	24.21	23.92	18.30	18.24	17.95
		25#0	24.26	23.90	24.24	18.29	17.93	18.27
	16QAM	1#0	24.16	24.11	24.20	18.19	18.14	18.23
		1#13	24.06	23.94	24.04	18.09	17.97	18.07
		1#24	24.05	24.14	24.09	18.08	18.17	18.12
		15#0	24.00	24.34	24.18	18.03	18.37	18.21
		15#10	24.33	24.28	24.28	18.36	18.31	18.31
		25#0	23.95	24.13	24.12	17.98	18.16	18.15
10	QPSK	1#0	24.06	24.32	24.35	18.09	18.35	18.38
		1#25	24.06	24.20	24.21	18.09	18.23	18.24
		1#49	23.99	24.06	24.24	18.02	18.09	18.27
		25#0	24.18	24.13	24.03	18.21	18.16	18.06
		25#25	24.09	23.93	24.16	18.12	17.96	18.19
		50#0	24.01	23.85	24.06	18.04	17.88	18.09
	16QAM	1#0	23.92	24.17	24.00	17.95	18.20	18.03
		1#25	24.01	24.06	24.20	18.04	18.09	18.23
		1#49	24.19	24.08	24.16	18.22	18.11	18.19
		25#0	24.04	24.31	23.85	18.07	18.34	17.88
		25#25	24.19	24.28	23.89	18.22	18.31	17.92
		50#0	24.28	24.24	24.19	18.31	18.27	18.22

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

Antenna Gain (dBd) = Antenna Gain (dBi)-2.15

Limit: ERP≤34.77dBm

LTE Band 13

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			ERP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	24.09	24.16	24.13	17.96	18.03	18.00
		1#13	24.05	24.16	24.00	17.92	18.03	17.87
		1#24	24.21	24.13	24.18	18.08	18.00	18.05
		15#0	24.18	24.18	24.21	18.05	18.05	18.08
		15#10	24.27	24.21	23.92	18.14	18.08	17.79
		25#0	24.26	23.90	24.24	18.13	17.77	18.11
	16QAM	1#0	24.16	24.11	24.20	18.03	17.98	18.07
		1#13	24.06	23.94	24.04	17.93	17.81	17.91
		1#24	24.05	24.14	24.09	17.92	18.01	17.96
		15#0	24.00	24.34	24.18	17.87	18.21	18.05
		15#10	24.33	24.28	24.28	18.20	18.15	18.15
		25#0	23.95	24.13	24.12	17.82	18.00	17.99
10	QPSK	1#0	/	24.78	/	/	18.65	/
		1#25	/	24.20	/	/	18.07	/
		1#49	/	24.06	/	/	17.93	/
		25#0	/	24.32	/	/	18.19	/
		25#25	/	23.93	/	/	17.80	/
		50#0	/	23.85	/	/	17.72	/
	16QAM	1#0	/	24.17	/	/	18.04	/
		1#25	/	24.06	/	/	17.93	/
		1#49	/	24.08	/	/	17.95	/
		25#0	/	24.31	/	/	18.18	/
		25#25	/	24.28	/	/	18.15	/
		50#0	/	24.24	/	/	18.11	/

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	24.26	24.12	24.14	18.29	18.15	18.17
		1#13	24.09	23.95	24.06	18.12	17.98	18.09
		1#24	24.22	24.24	24.04	18.25	18.27	18.07
		15#0	24.08	23.86	24.26	18.11	17.89	18.29
		15#10	24.24	24.23	24.31	18.27	18.26	18.34
		25#0	23.85	24.21	24.02	17.88	18.24	18.05
	16QAM	1#0	24.13	24.09	23.91	18.16	18.12	17.94
		1#13	24.10	23.99	24.27	18.13	18.02	18.30
		1#24	24.04	24.00	24.15	18.07	18.03	18.18
		15#0	23.93	24.19	24.33	17.96	18.22	18.36
		15#10	24.32	24.29	24.14	18.35	18.32	18.17
		25#0	23.92	24.23	24.00	17.95	18.26	18.03
10	QPSK	1#0	24.35	23.94	23.95	18.38	17.97	17.98
		1#25	23.94	24.14	24.12	17.97	18.17	18.15
		1#49	24.21	24.12	24.30	18.24	18.15	18.33
		25#0	24.02	24.07	24.09	18.05	18.10	18.12
		25#25	24.07	24.12	24.23	18.10	18.15	18.26
		50#0	24.08	24.04	24.07	18.11	18.07	18.10
	16QAM	1#0	23.92	24.24	23.93	17.95	18.27	17.96
		1#25	24.04	24.08	23.92	18.07	18.11	17.95
		1#49	24.11	24.26	24.07	18.14	18.29	18.10
		25#0	24.12	24.16	24.07	18.15	18.19	18.10
		25#25	24.12	23.80	24.08	18.15	17.83	18.11
		50#0	24.25	23.90	24.14	18.28	17.93	18.17

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	23.77	23.55	23.70	22.45	22.23	22.38
		1#3	23.54	23.60	23.60	22.22	22.28	22.28
		1#5	23.59	23.77	23.72	22.27	22.45	22.40
		3#0	23.45	23.58	23.80	22.13	22.26	22.48
		3#3	23.50	23.52	23.58	22.18	22.20	22.26
		6#0	23.56	23.52	23.59	22.24	22.20	22.27
	16QAM	1#0	23.58	23.41	23.47	22.26	22.09	22.15
		1#3	23.55	23.64	23.75	22.23	22.32	22.43
		1#5	23.54	23.63	23.41	22.22	22.31	22.09
		3#0	23.66	23.61	23.67	22.34	22.29	22.35
		3#3	23.62	23.41	23.55	22.30	22.09	22.23
		6#0	23.37	23.56	23.63	22.05	22.24	22.31
3	QPSK	1#0	23.61	23.80	23.83	22.29	22.48	22.51
		1#8	23.79	23.72	23.56	22.47	22.40	22.24
		1#14	23.65	23.42	23.56	22.33	22.10	22.24
		6#0	23.79	23.42	23.61	22.47	22.10	22.29
		6#9	23.59	23.67	23.59	22.27	22.35	22.27
		15#0	23.76	23.50	23.75	22.44	22.18	22.43
	16QAM	1#0	23.54	23.55	23.55	22.22	22.23	22.23
		1#8	23.45	23.64	23.57	22.13	22.32	22.25
		1#14	23.48	23.75	23.69	22.16	22.43	22.37
		6#0	23.51	23.47	23.58	22.19	22.15	22.26
		6#9	23.67	23.71	23.41	22.35	22.39	22.09
		15#0	23.70	23.69	23.46	22.38	22.37	22.14

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	23.68	23.35	23.51	22.36	22.03	22.19
		1#13	23.80	23.83	23.60	22.48	22.51	22.28
		1#24	23.50	23.63	23.59	22.18	22.31	22.27
		15#0	23.81	23.68	23.53	22.49	22.36	22.21
		15#10	23.74	23.45	23.54	22.42	22.13	22.22
		25#0	23.60	23.69	23.45	22.28	22.37	22.13
	16QAM	1#0	23.61	23.79	23.64	22.29	22.47	22.32
		1#13	23.62	23.87	23.63	22.30	22.55	22.31
		1#24	23.64	23.44	23.57	22.32	22.12	22.25
		15#0	23.59	23.43	23.83	22.27	22.11	22.51
		15#10	23.72	23.53	23.38	22.40	22.21	22.06
		25#0	23.79	23.48	23.49	22.47	22.16	22.17
10	QPSK	1#0	23.53	23.46	23.64	22.21	22.14	22.32
		1#25	23.61	23.66	23.48	22.29	22.34	22.16
		1#49	23.40	23.85	23.64	22.08	22.53	22.32
		25#0	23.80	23.61	23.62	22.48	22.29	22.30
		25#25	23.65	23.71	23.69	22.33	22.39	22.37
		50#0	23.43	23.53	23.64	22.11	22.21	22.32
	16QAM	1#0	23.71	23.70	23.65	22.39	22.38	22.33
		1#25	23.41	23.38	23.64	22.09	22.06	22.32
		1#49	23.46	23.51	23.60	22.14	22.19	22.28
		25#0	23.78	23.62	23.46	22.46	22.30	22.14
		25#25	23.75	23.65	23.42	22.43	22.33	22.10
		50#0	23.50	23.37	23.62	22.18	22.05	22.30

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	23.58	23.80	23.39	22.26	22.48	22.07
		1#38	23.84	23.77	23.37	22.52	22.45	22.05
		1#74	23.79	23.47	23.65	22.47	22.15	22.33
		36#0	23.77	23.45	23.33	22.45	22.13	22.01
		36#39	23.82	23.59	23.58	22.50	22.27	22.26
		75#0	23.35	23.71	23.46	22.03	22.39	22.14
	16QAM	1#0	23.59	23.66	23.59	22.27	22.34	22.27
		1#38	23.62	23.39	23.58	22.30	22.07	22.26
		1#74	23.49	23.45	23.39	22.17	22.13	22.07
		36#0	23.63	23.49	23.40	22.31	22.17	22.08
		36#39	23.59	23.77	23.43	22.27	22.45	22.11
		75#0	23.52	23.71	23.60	22.20	22.39	22.28
20	QPSK	1#0	23.76	23.76	23.88	22.44	22.44	22.56
		1#50	23.61	23.45	23.57	22.29	22.13	22.25
		1#99	23.57	23.58	23.60	22.25	22.26	22.28
		50#0	23.64	23.59	23.46	22.32	22.27	22.14
		50#50	23.57	23.79	23.60	22.25	22.47	22.28
		100#0	23.46	23.55	23.61	22.14	22.23	22.29
	16QAM	1#0	23.78	23.54	23.37	22.46	22.22	22.05
		1#50	23.78	23.42	23.52	22.46	22.10	22.20
		1#99	23.43	23.69	23.63	22.11	22.37	22.31
		50#0	23.59	23.79	23.46	22.27	22.47	22.14
		50#50	23.58	23.51	23.47	22.26	22.19	22.15
		100#0	23.61	23.66	23.53	22.29	22.34	22.21

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

LTE Band 26:

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)				ERP (dBm)			
			Low	Cross	Mid	High	Low	Cross	Mid	High
1.4	QPSK	1#0	24.21	24.36	24.17	24.23	19.13	19.28	19.09	19.15
		1#3	24.22	24.33	24.23	24.30	19.14	19.25	19.15	19.22
		1#5	24.10	24.41	24.28	24.18	19.02	19.33	19.20	19.10
		3#0	24.35	24.40	24.40	24.28	19.27	19.32	19.32	19.20
		3#3	24.19	24.41	24.25	24.23	19.11	19.33	19.17	19.15
		6#0	24.25	24.30	24.28	24.31	19.17	19.22	19.20	19.23
	16QAM	1#0	24.22	24.32	24.33	24.36	19.14	19.24	19.25	19.28
		1#3	24.27	24.39	24.35	24.36	19.19	19.31	19.27	19.28
		1#5	24.38	24.37	24.12	24.15	19.30	19.29	19.04	19.07
		3#0	24.25	24.30	24.27	24.36	19.17	19.22	19.19	19.28
		3#3	24.29	24.33	24.40	24.19	19.21	19.25	19.32	19.11
		6#0	24.37	24.36	24.26	24.21	19.29	19.28	19.18	19.13
3	QPSK	1#0	24.17	24.34	24.38	24.16	19.09	19.26	19.30	19.08
		1#8	24.16	24.31	24.26	24.37	19.08	19.23	19.18	19.29
		1#14	24.34	24.35	24.21	24.12	19.26	19.27	19.13	19.04
		6#0	24.39	24.34	24.35	24.22	19.31	19.26	19.27	19.14
		6#9	24.18	24.31	24.32	24.39	19.10	19.23	19.24	19.31
		15#0	24.28	24.34	24.17	24.13	19.20	19.26	19.09	19.05
	16QAM	1#0	24.37	24.39	24.28	24.10	19.29	19.31	19.20	19.02
		1#8	24.11	24.36	24.31	24.27	19.03	19.28	19.23	19.19
		1#14	24.20	24.30	24.18	24.17	19.12	19.22	19.10	19.09
		6#0	24.35	24.34	24.31	24.23	19.27	19.26	19.23	19.15
		6#9	24.21	24.30	24.11	24.16	19.13	19.22	19.03	19.08
		15#0	24.35	24.39	24.31	24.22	19.27	19.31	19.23	19.14

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)				ERP (dBm)			
			Low	Cross	Mid	High	Low	Cross	Mid	High
5	QPSK	1#0	24.21	24.3	24.30	24.10	19.13	19.22	19.22	19.02
		1#13	24.37	24.39	24.31	24.10	19.29	19.31	19.23	19.02
		1#24	24.26	24.34	24.40	24.14	19.18	19.26	19.32	19.06
		15#0	24.30	24.38	24.33	24.21	19.22	19.30	19.25	19.13
		15#10	24.27	24.38	24.28	24.16	19.19	19.30	19.20	19.08
		25#0	24.17	24.33	24.23	24.26	19.09	19.25	19.15	19.18
	16QAM	1#0	24.32	24.34	24.14	24.12	19.24	19.26	19.06	19.04
		1#13	24.24	24.33	24.21	24.17	19.16	19.25	19.13	19.09
		1#24	24.30	24.3	24.10	24.15	19.22	19.22	19.02	19.07
		15#0	24.17	24.37	24.29	24.40	19.09	19.29	19.21	19.32
		15#10	24.10	24.37	24.19	24.38	19.02	19.29	19.11	19.30
		25#0	24.11	24.31	24.31	24.30	19.03	19.23	19.23	19.22
10	QPSK	1#0	24.28	24.33	24.19	24.24	19.20	19.25	19.11	19.16
		1#25	24.38	24.36	24.38	24.21	19.30	19.28	19.30	19.13
		1#49	24.22	24.32	24.35	24.21	19.14	19.24	19.27	19.13
		25#0	24.23	24.34	24.27	24.18	19.15	19.26	19.19	19.10
		25#25	24.34	24.3	24.32	24.25	19.26	19.22	19.24	19.17
		50#0	24.24	24.37	24.31	24.38	19.16	19.29	19.23	19.30
	16QAM	1#0	24.16	24.38	24.10	24.22	19.08	19.30	19.02	19.14
		1#25	24.27	24.32	24.35	24.28	19.19	19.24	19.27	19.20
		1#49	24.17	24.4	24.37	24.36	19.09	19.32	19.29	19.28
		25#0	24.23	24.32	24.23	24.26	19.15	19.24	19.15	19.18
		25#25	24.11	24.30	24.15	24.21	19.03	19.22	19.07	19.13
		50#0	24.19	24.31	24.10	24.11	19.11	19.23	19.02	19.03

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)				ERP (dBm)			
			Low	Cross	Mid	High	Low	Cross	Mid	High
15	QPSK	1#0	24.41	24.33	24.32	24.37	19.33	19.25	19.24	19.29
		1#38	24.24	24.37	24.12	24.18	19.16	19.29	19.04	19.10
		1#74	24.24	24.36	24.14	24.26	19.16	19.28	19.06	19.18
		36#0	24.26	24.29	24.36	24.33	19.18	19.21	19.28	19.25
		36#39	24.33	24.35	24.23	24.33	19.25	19.27	19.15	19.25
		75#0	24.10	24.32	24.27	24.33	19.02	19.24	19.19	19.25
	16QAM	1#0	24.21	24.33	24.25	24.32	19.13	19.25	19.17	19.24
		1#38	24.19	24.37	24.12	24.17	19.11	19.29	19.04	19.09
		1#74	24.13	24.31	24.33	24.33	19.05	19.23	19.25	19.25
		36#0	24.30	24.41	24.24	24.25	19.22	19.33	19.16	19.17
		36#39	24.20	24.34	24.11	24.38	19.12	19.26	19.03	19.30
		75#0	24.16	24.33	24.28	24.34	19.08	19.25	19.20	19.26

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)				
			Low	Low Mid	Mid	High Mid	High
5	QPSK	1#0	23.31	23.22	23.01	23.36	23.24
		1#13	23.45	23.16	23.42	23.23	23.51
		1#24	23.56	23.22	23.36	23.21	23.57
		15#0	22.97	23.35	23.49	23.23	23.03
		15#10	23.18	23.02	23.35	23.62	23.02
		25#0	23.38	22.97	23.04	23.13	23.59
	16QAM	1#0	23.49	23.42	23.48	23.31	23.42
		1#13	23.38	23.52	23.36	23.46	23.44
		1#24	23.47	23.46	23.34	23.39	23.26
		15#0	23.46	23.61	23.45	23.10	22.96
		15#10	23.07	23.40	23.15	23.37	23.45
		25#0	23.26	23.65	23.52	23.16	23.28
10	QPSK	1#0	23.08	23.11	23.15	23.03	23.28
		1#25	23.20	23.32	23.61	23.55	23.21
		1#49	23.33	23.23	23.20	23.23	23.16
		25#0	23.65	23.47	23.45	23.38	23.09
		25#25	23.41	23.08	23.17	23.06	23.24
		50#0	23.20	23.54	23.49	23.20	23.24
	16QAM	1#0	23.60	23.26	23.46	23.57	23.38
		1#25	23.48	23.05	23.62	23.26	23.11
		1#49	23.09	23.20	23.39	23.36	23.27
		25#0	23.61	23.34	23.59	23.43	23.19
		25#25	23.10	23.09	23.14	23.00	23.28
		50#0	23.22	23.02	23.08	23.10	23.44

Bandwidth (MHz)	Modulation	RB size/ RB Offset	EIRP (dBm)				
			Low	Low Mid	Mid	High Mid	High
5	QPSK	1#0	24.96	24.87	24.66	25.01	24.89
		1#13	25.10	24.81	25.07	24.88	25.16
		1#24	25.21	24.87	25.01	24.86	25.22
		15#0	24.62	25.00	25.14	24.88	24.68
		15#10	24.83	24.67	25.00	25.27	24.67
		25#0	25.03	24.62	24.69	24.78	25.24
	16QAM	1#0	25.14	25.07	25.13	24.96	25.07
		1#13	25.03	25.17	25.01	25.11	25.09
		1#24	25.12	25.11	24.99	25.04	24.91
		15#0	25.11	25.26	25.10	24.75	24.61
		15#10	24.72	25.05	24.80	25.02	25.10
		25#0	24.91	25.30	25.17	24.81	24.93
10	QPSK	1#0	24.73	24.76	24.80	24.68	24.93
		1#25	24.85	24.97	25.26	25.20	24.86
		1#49	24.98	24.88	24.85	24.88	24.81
		25#0	25.30	25.12	25.10	25.03	24.74
		25#25	25.06	24.73	24.82	24.71	24.89
		50#0	24.85	25.19	25.14	24.85	24.89
	16QAM	1#0	25.25	24.91	25.11	25.22	25.03
		1#25	25.13	24.70	25.27	24.91	24.76
		1#49	24.74	24.85	25.04	25.01	24.92
		25#0	25.26	24.99	25.24	25.08	24.84
		25#25	24.75	24.74	24.79	24.65	24.93
		50#0	24.87	24.67	24.73	24.75	25.09

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)				
			Low	Low Mid	Mid	High Mid	High
15	QPSK	1#0	23.13	23.25	23.17	23.37	23.26
		1#38	23.62	23.61	23.00	23.65	22.98
		1#74	22.99	23.54	23.12	23.63	23.04
		36#0	23.59	23.50	23.24	23.66	23.18
		36#39	23.27	23.27	23.58	23.13	23.41
		75#0	22.98	23.13	22.97	23.31	23.03
	16QAM	1#0	23.14	23.50	23.58	23.02	23.11
		1#38	23.16	23.10	23.00	23.08	23.02
		1#74	23.16	23.05	23.10	23.04	23.41
		36#0	23.53	23.09	23.50	23.18	23.65
		36#39	23.17	23.37	23.62	23.12	23.40
		75#0	23.41	23.55	23.22	23.31	23.08
20	QPSK	1#0	23.69	23.74	23.79	23.75	23.71
		1#50	23.41	23.00	23.47	23.28	23.54
		1#99	23.01	23.08	23.49	23.36	23.14
		50#0	23.64	23.62	23.71	23.65	23.66
		50#50	23.61	23.54	23.54	23.46	23.28
		100#0	23.47	23.43	23.56	23.35	23.22
	16QAM	1#0	23.33	23.38	23.12	23.08	23.29
		1#50	23.17	23.11	23.52	23.23	23.20
		1#99	23.11	23.05	23.54	23.39	23.38
		50#0	23.18	23.49	23.33	23.50	23.62
		50#50	23.64	23.02	23.47	22.97	23.45
		100#0	23.31	23.10	23.43	23.43	23.24

Bandwidth (MHz)	Modulation	RB size/ RB Offset	EIRP (dBm)				
			Low	Low Mid	Mid	High Mid	High
15	QPSK	1#0	24.78	24.90	24.82	25.02	24.91
		1#38	25.27	25.26	24.65	25.30	24.63
		1#74	24.64	25.19	24.77	25.28	24.69
		36#0	25.24	25.15	24.89	25.31	24.83
		36#39	24.92	24.92	25.23	24.78	25.06
		75#0	24.63	24.78	24.62	24.96	24.68
	16QAM	1#0	24.79	25.15	25.23	24.67	24.76
		1#38	24.81	24.75	24.65	24.73	24.67
		1#74	24.81	24.70	24.75	24.69	25.06
		36#0	25.18	24.74	25.15	24.83	25.30
		36#39	24.82	25.02	25.27	24.77	25.05
		75#0	25.06	25.20	24.87	24.96	24.73
20	QPSK	1#0	25.34	25.39	25.44	25.40	25.36
		1#50	25.06	24.65	25.12	24.93	25.19
		1#99	24.66	24.73	25.14	25.01	24.79
		50#0	25.29	25.27	25.36	25.30	25.31
		50#50	25.26	25.19	25.19	25.11	24.93
		100#0	25.12	25.08	25.21	25.00	24.87
	16QAM	1#0	24.98	25.03	24.77	24.73	24.94
		1#50	24.82	24.76	25.17	24.88	24.85
		1#99	24.76	24.70	25.19	25.04	25.03
		50#0	24.83	25.14	24.98	25.15	25.27
		50#50	25.29	24.67	25.12	24.62	25.10
		100#0	24.96	24.75	25.08	25.08	24.89

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

Limit: EIRP ≤ 33 dBm

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	23.46	23.25	23.38	22.45	22.24	22.37
		1#13	23.54	23.19	23.47	22.53	22.18	22.46
		1#24	23.17	23.16	23.32	22.16	22.15	22.31
		15#0	23.46	23.47	23.18	22.45	22.46	22.17
		15#10	23.43	23.56	23.54	22.42	22.55	22.53
		25#0	23.26	23.35	23.35	22.25	22.34	22.34
	16QAM	1#0	23.32	23.17	23.21	22.31	22.16	22.20
		1#13	23.49	23.18	23.55	22.48	22.17	22.54
		1#24	23.30	23.20	23.39	22.29	22.19	22.38
		15#0	23.23	23.42	23.44	22.22	22.41	22.43
		15#10	23.28	23.35	23.42	22.27	22.34	22.41
		25#0	23.18	23.42	23.49	22.17	22.41	22.48
3	QPSK	1#0	23.53	23.28	23.47	22.52	22.27	22.46
		1#25	23.31	23.32	23.33	22.30	22.31	22.32
		1#49	23.22	23.31	23.38	22.21	22.30	22.37
		25#0	23.52	23.22	23.38	22.51	22.21	22.37
		25#25	23.24	23.21	23.29	22.23	22.20	22.28
		50#0	23.36	23.22	23.49	22.35	22.21	22.48
	16QAM	1#0	23.30	23.29	23.31	22.29	22.28	22.30
		1#25	23.24	23.41	23.48	22.23	22.40	22.47
		1#49	23.25	23.44	23.43	22.24	22.43	22.42
		25#0	23.37	23.31	23.25	22.36	22.30	22.24
		25#25	23.17	23.18	23.17	22.16	22.17	22.16
		50#0	23.22	23.28	23.38	22.21	22.27	22.37

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
5	QPSK	1#0	23.77	23.59	23.54	22.76	22.58	22.53
		1#13	23.57	23.57	23.70	22.56	22.56	22.69
		1#24	23.84	23.74	23.51	22.83	22.73	22.50
		15#0	23.87	23.65	23.76	22.86	22.64	22.75
		15#10	23.51	23.60	23.62	22.50	22.59	22.61
		25#0	23.81	23.67	23.35	22.80	22.66	22.34
	16QAM	1#0	23.73	23.57	23.60	22.72	22.56	22.59
		1#13	23.50	23.56	23.43	22.49	22.55	22.42
		1#24	23.65	23.48	23.64	22.64	22.47	22.63
		15#0	23.51	23.77	23.69	22.50	22.76	22.68
		15#10	23.60	23.74	23.39	22.59	22.73	22.38
		25#0	23.63	23.41	23.60	22.62	22.40	22.59
10	QPSK	1#0	23.37	23.55	23.52	22.36	22.54	22.51
		1#25	23.54	23.57	23.63	22.53	22.56	22.62
		1#49	23.65	23.45	23.46	22.64	22.44	22.45
		25#0	23.72	23.55	23.81	22.71	22.54	22.80
		25#25	23.70	23.76	23.59	22.69	22.75	22.58
		50#0	23.74	23.69	23.60	22.73	22.68	22.59
	16QAM	1#0	23.86	23.80	23.60	22.85	22.79	22.59
		1#25	23.82	23.63	23.75	22.81	22.62	22.74
		1#49	23.67	23.43	23.58	22.66	22.42	22.57
		25#0	23.70	23.82	23.60	22.69	22.81	22.59
		25#25	23.43	23.53	23.70	22.42	22.52	22.69
		50#0	23.76	23.84	23.53	22.75	22.83	22.52

Bandwidth (MHz)	Modulation	RB size/ RB Offset	Conducted Average Output Power (dBm)			EIRP (dBm)		
			Low	Mid	High	Low	Mid	High
15	QPSK	1#0	23.43	23.45	23.45	22.42	22.44	22.44
		1#38	23.52	23.49	23.55	22.51	22.48	22.54
		1#74	23.39	23.43	23.51	22.38	22.42	22.50
		36#0	23.52	23.51	23.44	22.51	22.50	22.43
		36#39	23.78	23.70	23.46	22.77	22.69	22.45
		75#0	23.49	23.72	23.65	22.48	22.71	22.64
	16QAM	1#0	23.73	23.70	23.69	22.72	22.69	22.68
		1#38	23.92	23.68	23.67	22.91	22.67	22.66
		1#74	23.51	23.49	23.59	22.50	22.48	22.58
		36#0	23.67	23.77	23.46	22.66	22.76	22.45
		36#39	23.49	23.50	23.55	22.48	22.49	22.54
		75#0	23.62	23.72	23.88	22.61	22.71	22.87
20	QPSK	1#0	23.93	23.85	23.84	22.92	22.84	22.83
		1#50	23.74	23.43	23.50	22.73	22.42	22.49
		1#99	23.41	23.57	23.57	22.40	22.56	22.56
		50#0	23.65	23.61	23.42	22.64	22.60	22.41
		50#50	23.74	23.49	23.66	22.73	22.48	22.65
		100#0	23.65	23.64	23.40	22.64	22.63	22.39
	16QAM	1#0	23.56	23.44	23.58	22.55	22.43	22.57
		1#50	23.54	23.69	23.60	22.53	22.68	22.59
		1#99	23.57	23.63	23.50	22.56	22.62	22.49
		50#0	23.59	23.59	23.43	22.58	22.58	22.42
		50#50	23.46	23.42	23.44	22.45	22.41	22.43
		100#0	23.66	23.67	23.58	22.65	22.66	22.57

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

Peak-to-average ratio (PAR):**GPRS/EGPRS 850 Band**

Mode	Channel	PAR (dB)	Limit (dB)
GPRS	Low	2.10	≤ 13
	Middle	1.95	≤ 13
	High	2.11	≤ 13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	2.22	≤ 13
	Middle	2.02	≤ 13
	High	1.98	≤ 13

WCDMA Band V

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	3.05	≤ 13
	Middle	3.11	≤ 13
	High	3.14	≤ 13
WCDMA (HSDPA)	Low	3.96	≤ 13
	Middle	4.06	≤ 13
	High	4.11	≤ 13
WCDMA (HSUPA)	Low	4.08	≤ 13
	Middle	4.18	≤ 13
	High	4.14	≤ 13
WCDMA (HSPA+)	Low	4.65	≤ 13
	Middle	4.68	≤ 13
	High	4.54	≤ 13

WCDMA Band IV

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	3.13	≤ 13
	Middle	3.35	≤ 13
	High	3.18	≤ 13
WCDMA (HSDPA)	Low	4.01	≤ 13
	Middle	4.11	≤ 13
	High	4.02	≤ 13
WCDMA (HSUPA)	Low	4.06	≤ 13
	Middle	4.21	≤ 13
	High	4.02	≤ 13
WCDMA (HSPA+)	Low	4.56	≤ 13
	Middle	4.61	≤ 13
	High	4.52	≤ 13

PCS 1900

Mode	Channel	PAR (dB)	Limit (dB)
GPRS	Low	2.21	≤ 13
	Middle	1.92	≤ 13
	High	2.04	≤ 13

Mode	Channel	PAR (dB)	Limit (dB)
EGPRS	Low	2.06	≤ 13
	Middle	2.11	≤ 13
	High	1.99	≤ 13

WCDMA Band II

Mode	Channel	PAR (dB)	Limit (dB)
WCDMA (Rel99)	Low	3.31	≤ 13
	Middle	3.33	≤ 13
	High	3.14	≤ 13
WCDMA (HSDPA)	Low	4.16	≤ 13
	Middle	4.14	≤ 13
	High	4.08	≤ 13
WCDMA (HSUPA)	Low	4.55	≤ 13
	Middle	4.29	≤ 13
	High	4.41	≤ 13
WCDMA (HSPA+)	Low	4.54	≤ 13
	Middle	4.64	≤ 13
	High	4.53	≤ 13

LTE Band 2

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit (dB)
QPSK	1 RB	20M	9.65	9.35	9.27	≤ 13
	100 RB		6.23	6.28	6.36	≤ 13
16-QAM	1 RB	20M	9.57	9.61	9.46	≤ 13
	100 RB		7.11	7.17	7.53	≤ 13

LTE Band 4

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	8.82	8.68	8.51	≤ 13
	100 RB		6.75	6.56	6.71	≤ 13
16-QAM	1 RB	20M	8.18	8.25	8.24	≤ 13
	100 RB		7.24	7.29	7.14	≤ 13

LTE Band 5

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	4.85	4.63	4.54	≤ 13
	50 RB		5.63	5.48	5.59	≤ 13
16-QAM	1 RB	10M	5.33	5.75	5.37	≤ 13
	50 RB		6.26	5.88	6.15	≤ 13

LTE Band 7

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	8.52	8.45	8.34	≤ 13
	100 RB		6.35	6.24	6.19	≤ 13
16-QAM	1 RB	20M	8.53	8.63	8.48	≤ 13
	100 RB		7.14	7.25	7.19	≤ 13

LTE Band 12

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	4.65	4.54	4.69	≤ 13
	50 RB		5.42	5.51	5.63	≤ 13
16-QAM	1 RB	10M	5.38	5.42	5.45	≤ 13
	50 RB		6.41	6.51	6.39	≤ 13

LTE Band 13

Test Modulation		Test Bandwidth	Middle Channel (dB)	Limit(dB)
QPSK	1 RB	10M	4.42	≤ 13
	50 RB		5.58	≤ 13
16-QAM	1 RB	10M	5.72	≤ 13
	50 RB		6.58	≤ 13

LTE Band 17

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	10M	4.85	4.76	4.63	≤ 13
	50 RB		5.52	5.61	5.65	≤ 13
16-QAM	1 RB	10M	5.15	5.28	5.23	≤ 13
	50 RB		6.34	6.29	6.33	≤ 13

LTE Band 25

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	8.46	8.34	8.41	≤ 13
	100 RB		6.25	6.37	6.31	≤ 13
16-QAM	1 RB	20M	8.52	8.74	8.96	≤ 13
	100 RB		7.35	7.27	7.19	≤ 13

LTE Band 26

Test Modulation		Test Bandwidth	Low Channel (dB)	Cross Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	15M	8.41	8.32	8.36	8.37	≤ 13
	75 RB		6.20	6.45	6.35	6.32	≤ 13
16-QAM	1 RB	15M	8.51	8.21	8.71	8.94	≤ 13
	75 RB		7.36	7.23	7.28	7.18	≤ 13

LTE Band 41

Modulation		Test Bandwidth	Low channel (dB)	Low Middle channel (dB)	Middle channel (dB)	High Middle channel (dB)	High channel (dB)	PAR Limit (dB)
QPSK	RB1#0	20M	7.15	7.13	7.09	6.95	7.15	13
	RB100#0		7.13	7.16	7.03	7.02	7.42	13
16QAM	RB1#0	20M	8.01	8.11	8.28	8.13	8.23	13
	RB100#0		7.95	7.84	7.45	7.66	8.14	13

LTE Band 66

Test Modulation		Test Bandwidth	Low Channel (dB)	Middle Channel (dB)	High Channel (dB)	Limit(dB)
QPSK	1 RB	20M	7.23	7.03	7.19	≤ 13
	100 RB		7.21	7.15	7.32	≤ 13
16-QAM	1 RB	20M	8.09	8.17	8.20	≤ 13
	100 RB		8.06	7.98	8.11	≤ 13

OCCUPIED BANDWIDTH*EUT operation mode: Transmitting***GPRS 850 Band**

Mode	Frequency (MHz)	26 dB Emission Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
GPRS (GMSK)	824.2	317.40	243.51
	836.6	315.40	243.51
	848.8	317.40	245.50
EGPRS (8PSK)	824.2	315.40	237.52
	836.6	313.40	237.52
	848.8	313.40	237.52

WCDMA Band V

Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (Rel 99)	826.4	4.11	4.72
	836.6	4.11	4.70
	846.6	4.10	4.70
WCDMA (HSDPA)	826.4	4.11	4.72
	836.6	4.11	4.70
	846.6	4.08	4.70
WCDMA (HSUPA)	826.4	4.11	4.72
	836.6	4.11	4.72
	846.6	4.08	4.70
WCDMA (HSPA+)	826.4	4.11	4.72
	836.6	4.11	4.70
	846.6	4.10	4.70

PCS 1900

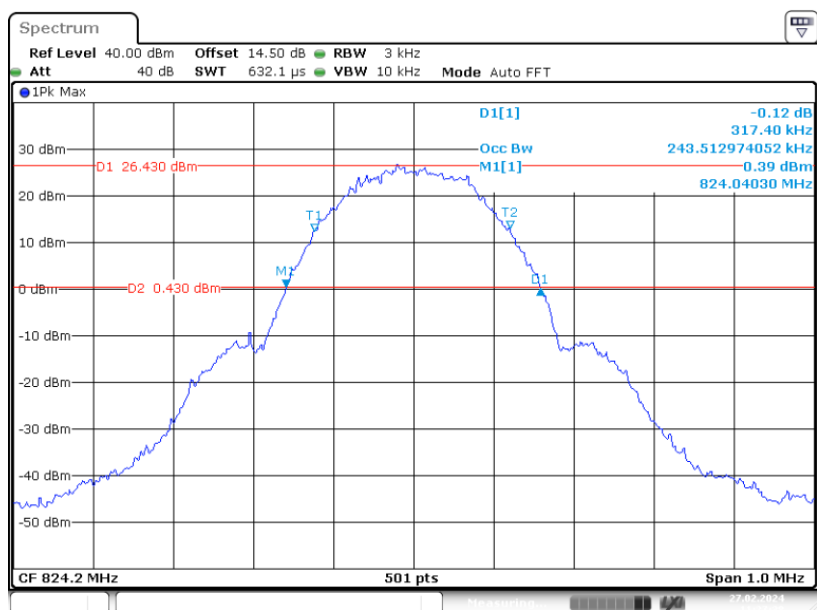
Mode	Frequency (MHz)	26 dB Emission Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
GPRS (GMSK)	1850.2	313.40	241.52
	1880	321.40	241.52
	1909.8	317.40	243.51
EGPRS (8PSK)	1850.2	319.40	243.51
	1880	315.40	243.51
	1909.8	319.40	243.51

WCDMA Band II

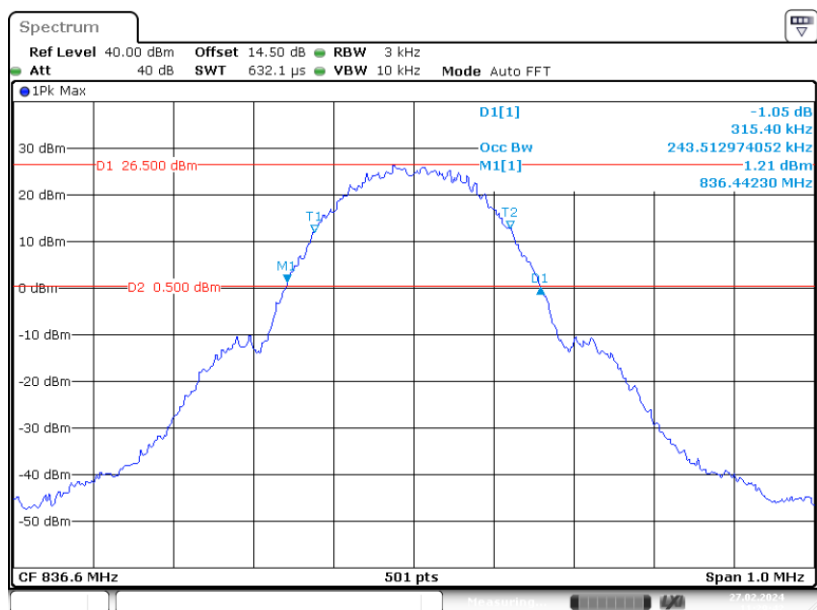
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (Rel 99)	1852.4	4.11	4.75
	1880	4.13	4.75
	1907.6	4.11	4.73
WCDMA (HSDPA)	1852.4	4.15	4.75
	1880	4.13	4.75
	1907.6	4.11	4.71
WCDMA (HSUPA)	1852.4	4.11	4.75
	1880	4.11	4.75
	1907.6	4.11	4.73
WCDMA (HSPA+)	1852.4	4.13	4.75
	1880	4.13	4.75
	1907.6	4.11	4.71

WCDMA Band IV

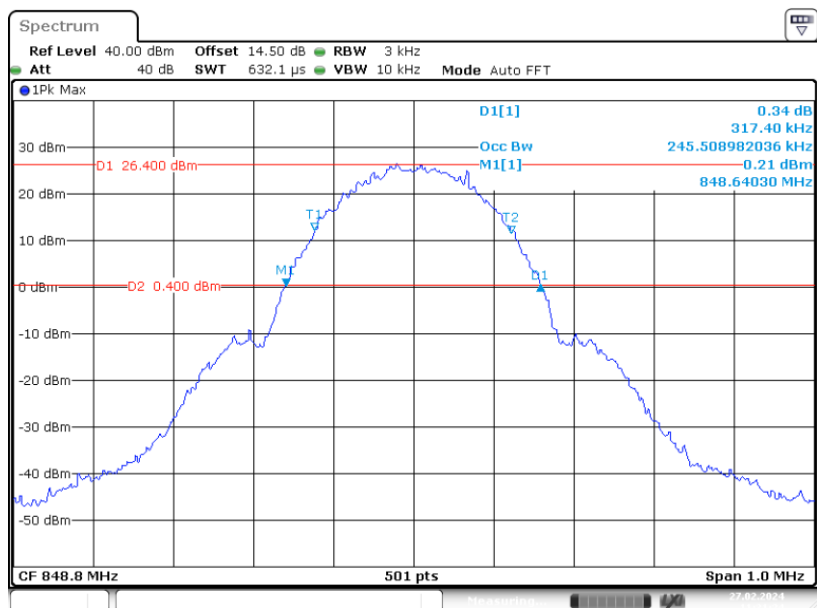
Mode	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Emission Bandwidth (MHz)
WCDMA (Rel 99)	1712.4	4.11	4.71
	1732.6	4.11	4.71
	1752.6	4.11	4.71
WCDMA (HSDPA)	1712.4	4.11	4.71
	1732.6	4.11	4.71
	1752.6	4.11	4.71
WCDMA (HSUPA)	1712.4	4.09	4.71
	1732.6	4.11	4.71
	1752.6	4.11	4.71
WCDMA (HSPA+)	1712.4	4.11	4.71
	1732.6	4.11	4.71
	1752.6	4.11	4.71

GPRS 850 Band**99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Low channel**

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:27:38

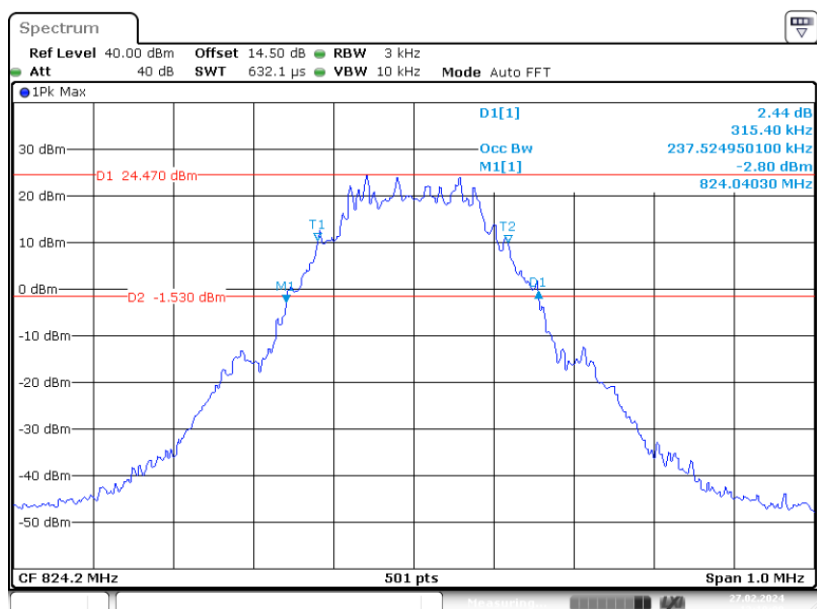
99% Occupied & 26 dB Emissions Bandwidth for GPRS (GMSK) Middle channel

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 11:29:43

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

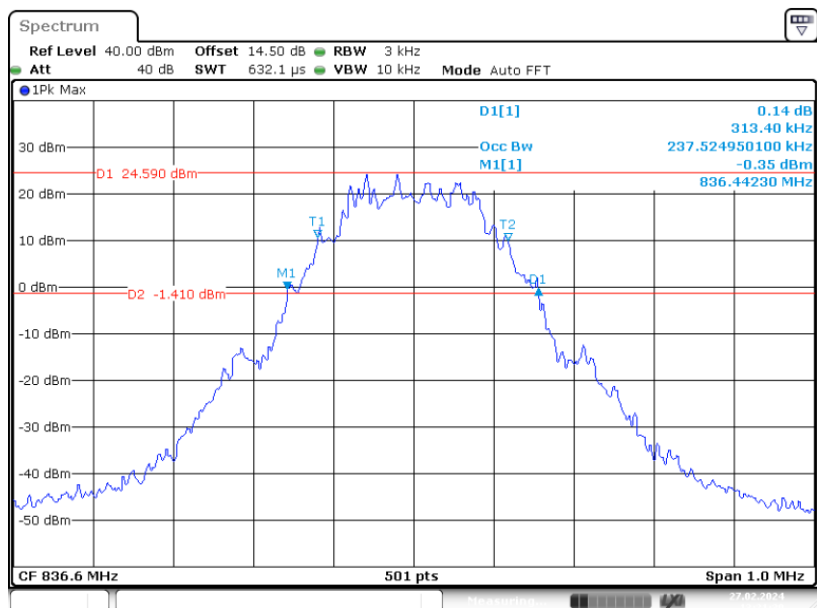
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 11:31:24

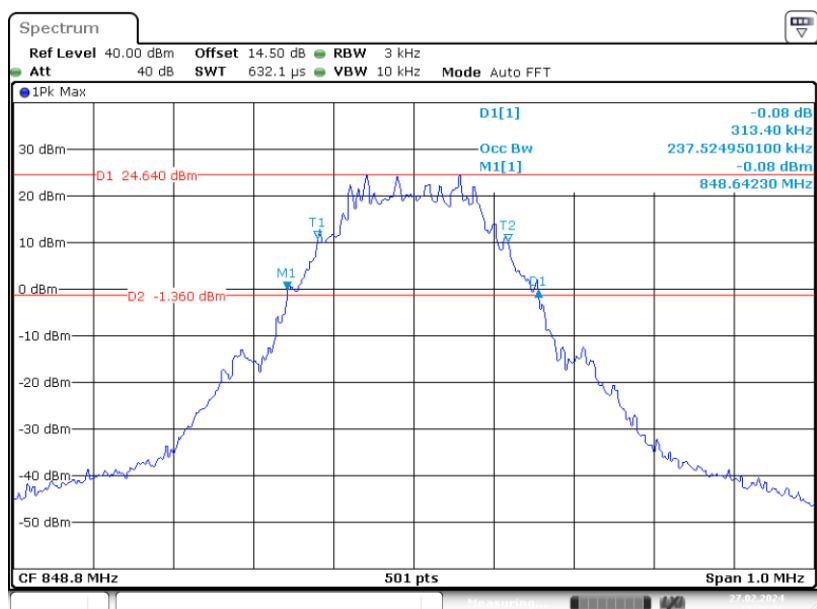
99% Occupied & 26 dB Emissions Bandwidth for EGPRS (8PSK) Low channel

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 13:19:00

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

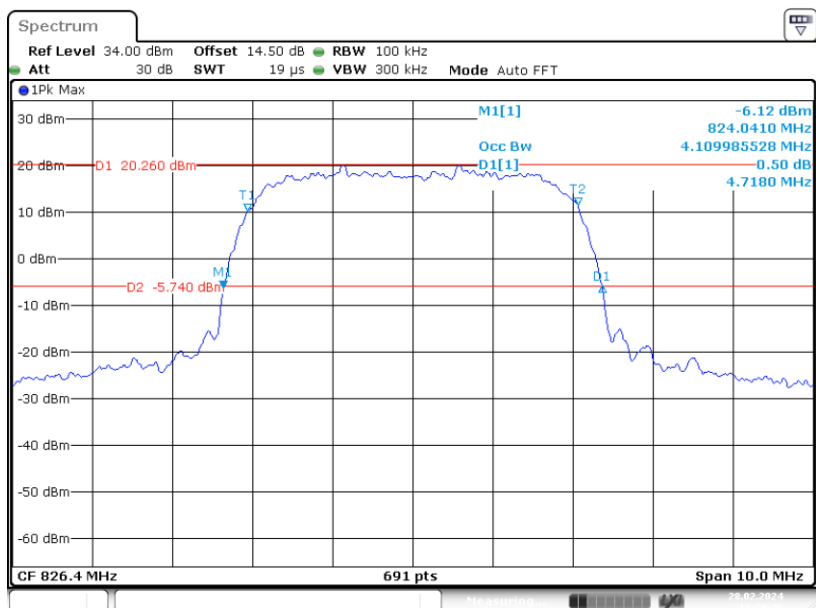
ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:21:30

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

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 13:25:26

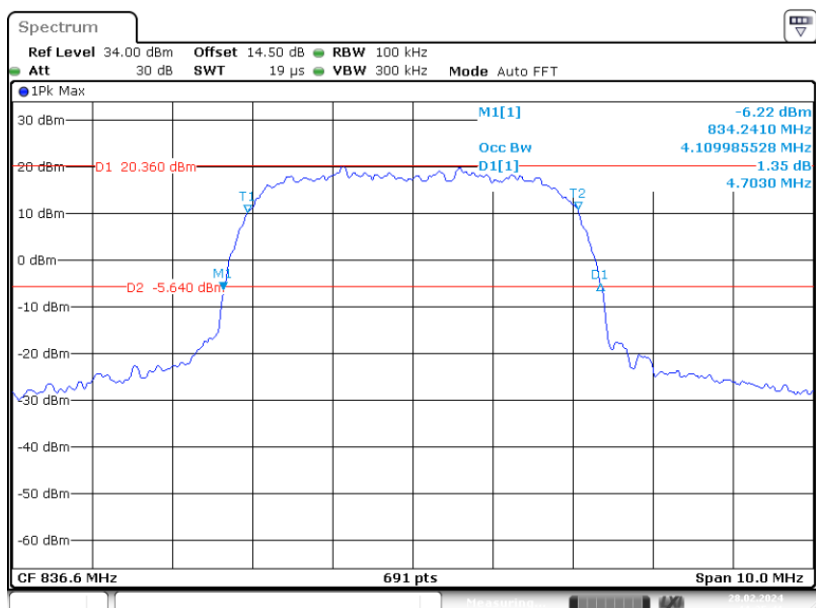
WCDMA Band V

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

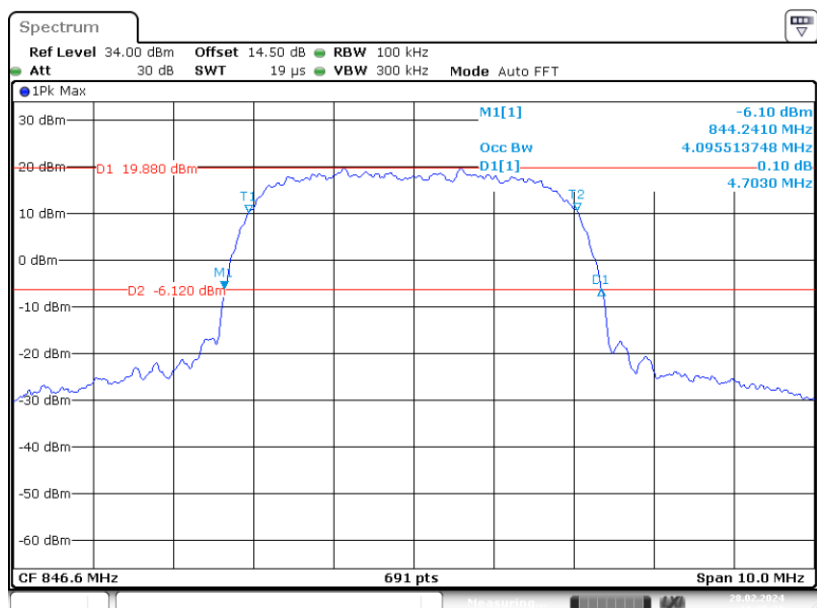


ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:29:47

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

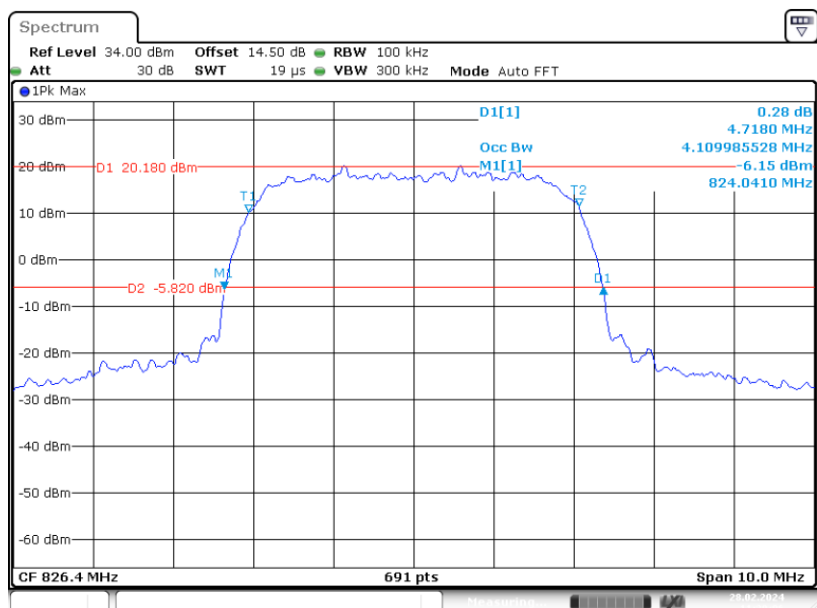


ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:25:41

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

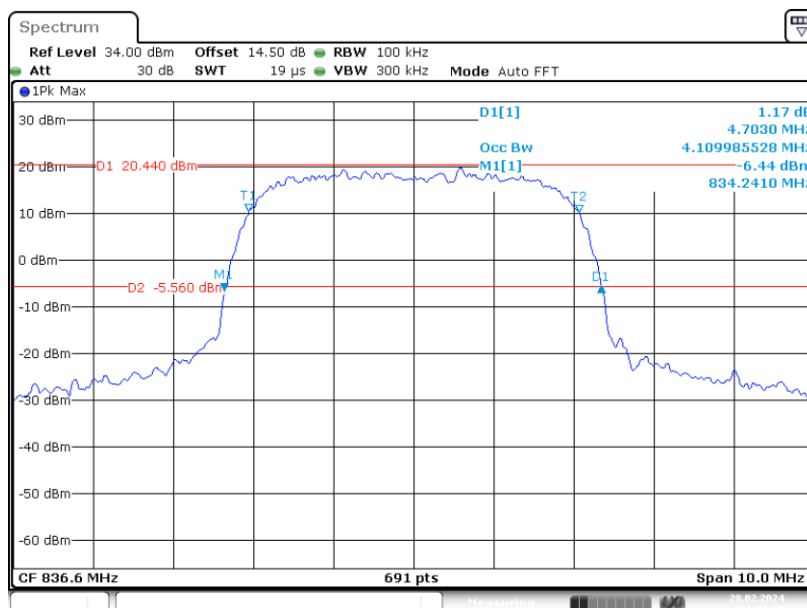
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 28.FEB.2024 11:35:29

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

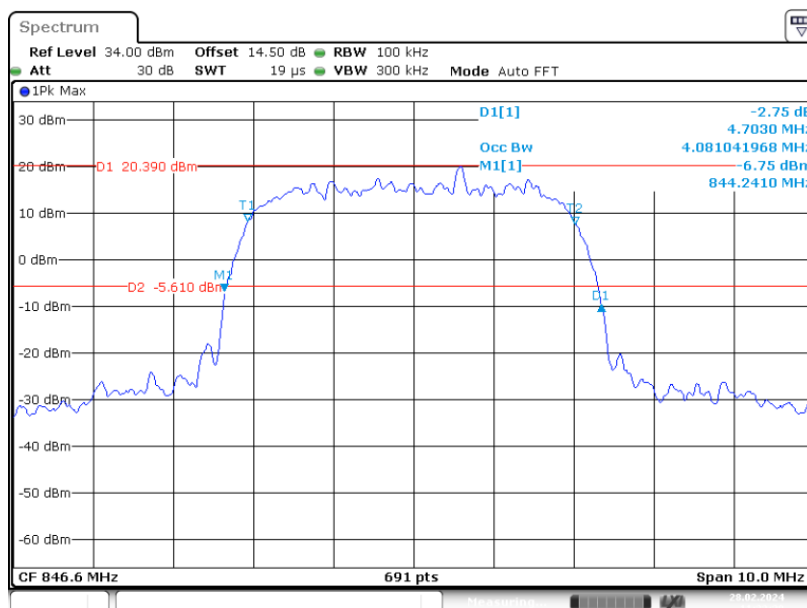
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 28.FEB.2024 11:28:06

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

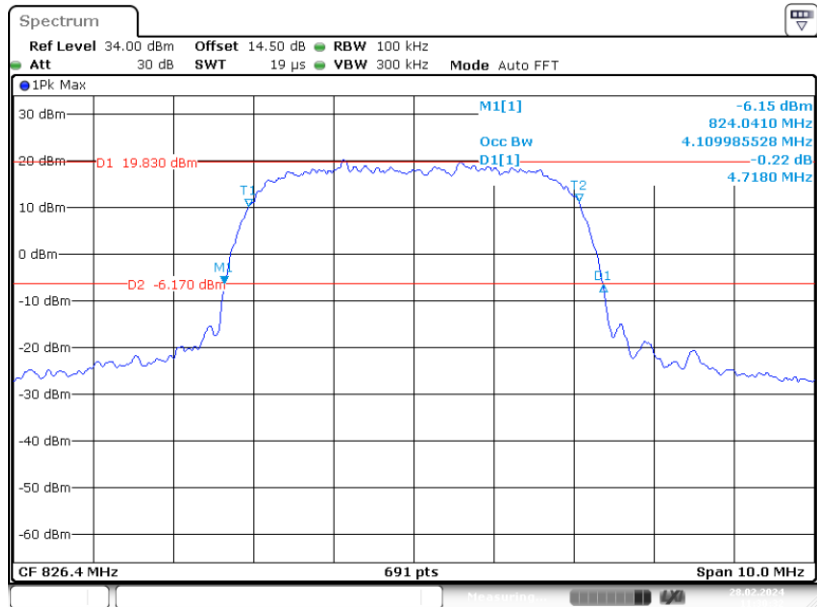
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 28.FEB.2024 11:23:50

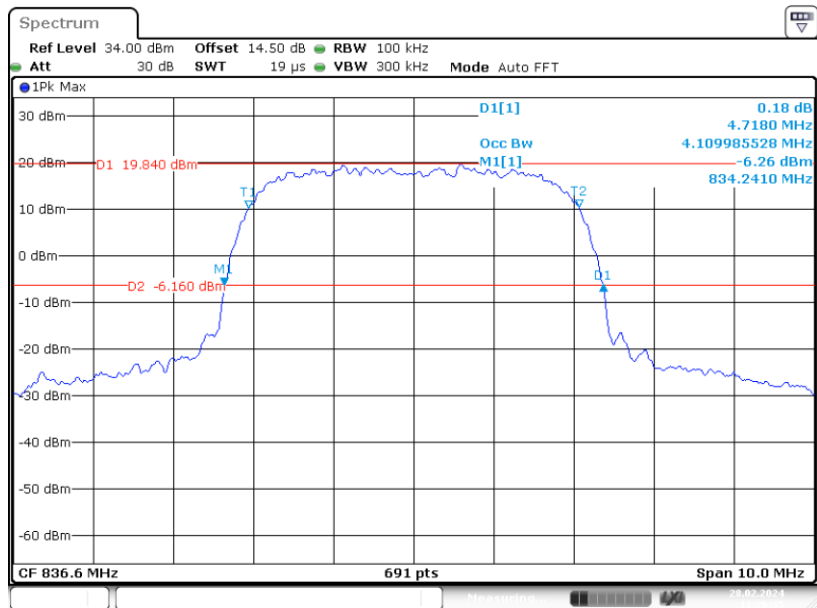
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel

ProjectNo.: RSHA231206001 Tester: Bard Liu

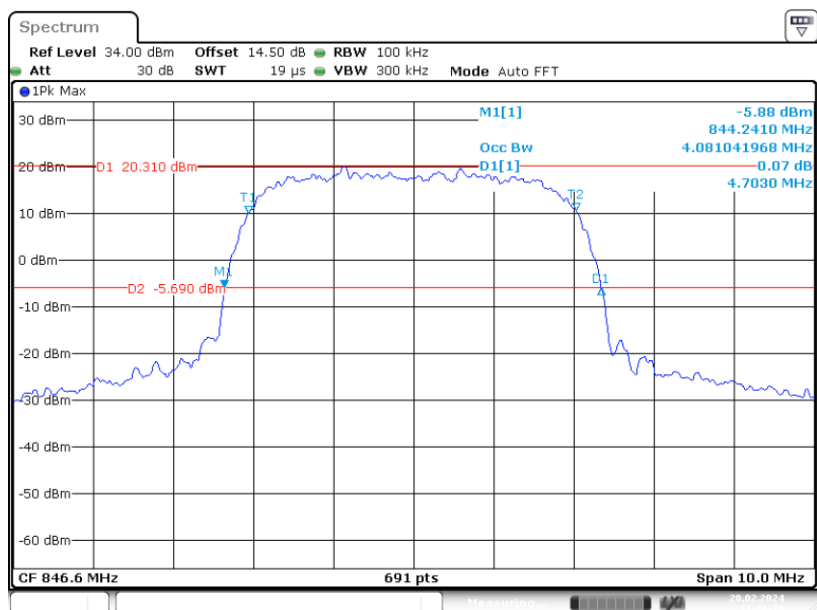
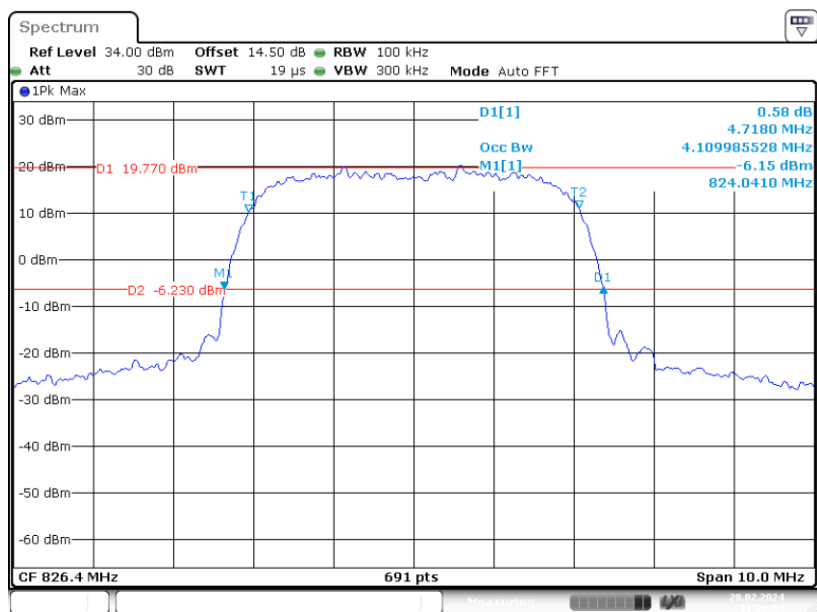
Date: 28.FEB.2024 11:32:30

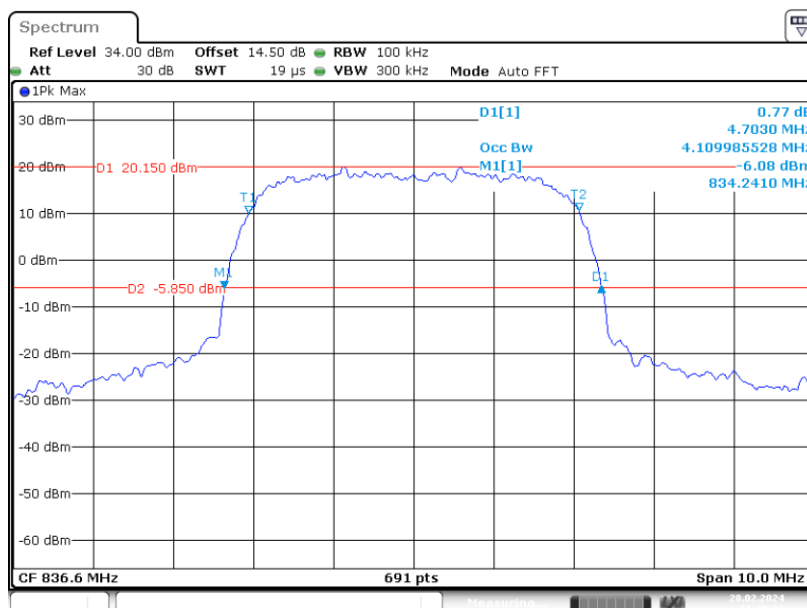
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:30:32

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

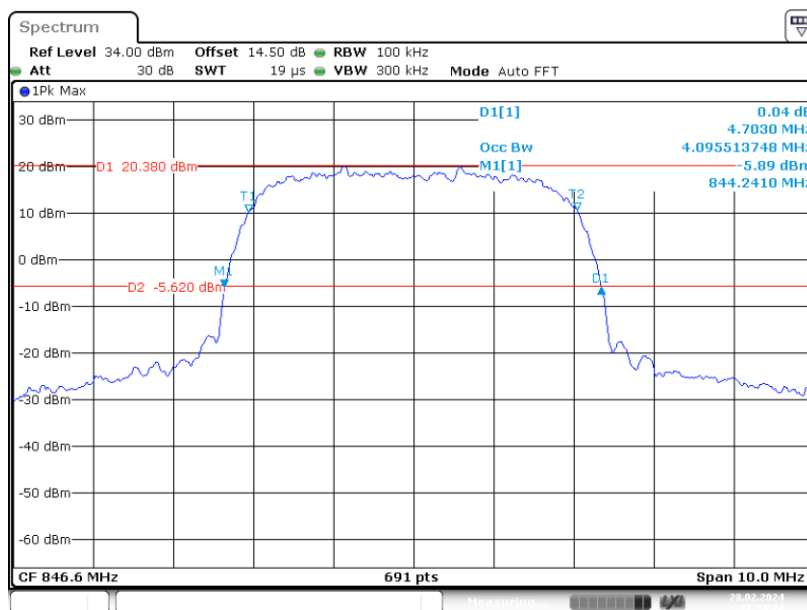
ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 28.FEB.2024 11:26:35

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

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

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 28.FEB.2024 11:25:00

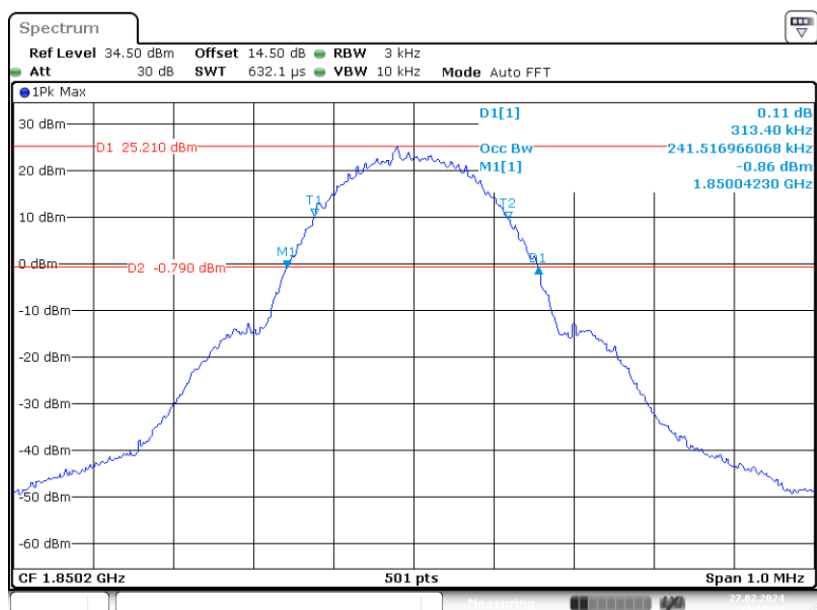
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) High channel

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 28.FEB.2024 11:34:24

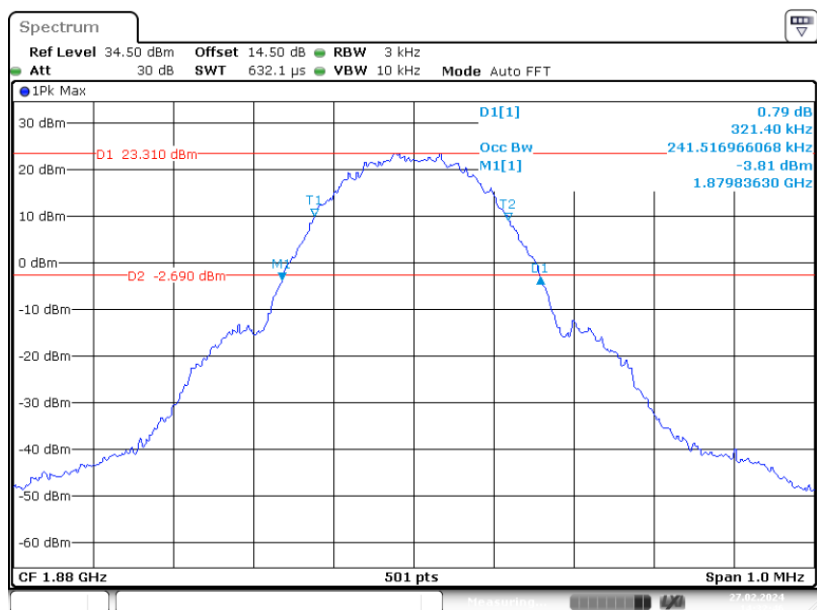
PCS 1900 Band

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

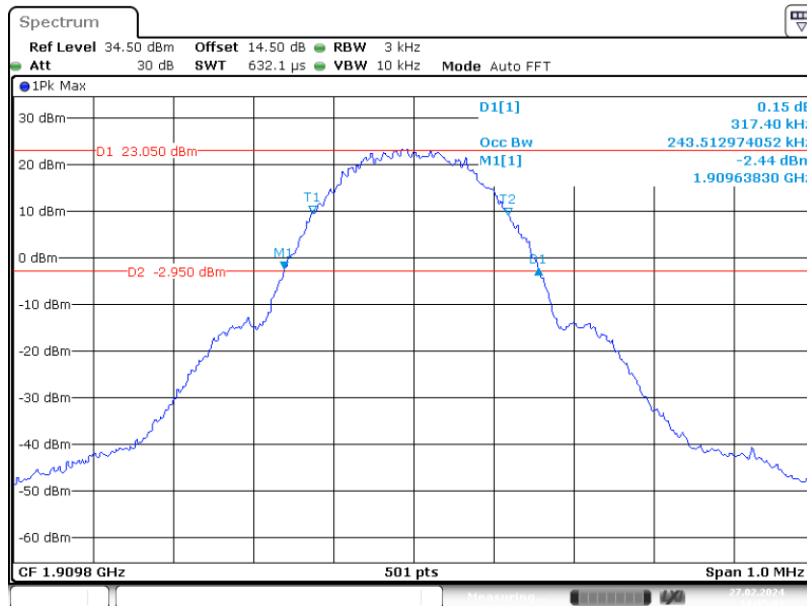
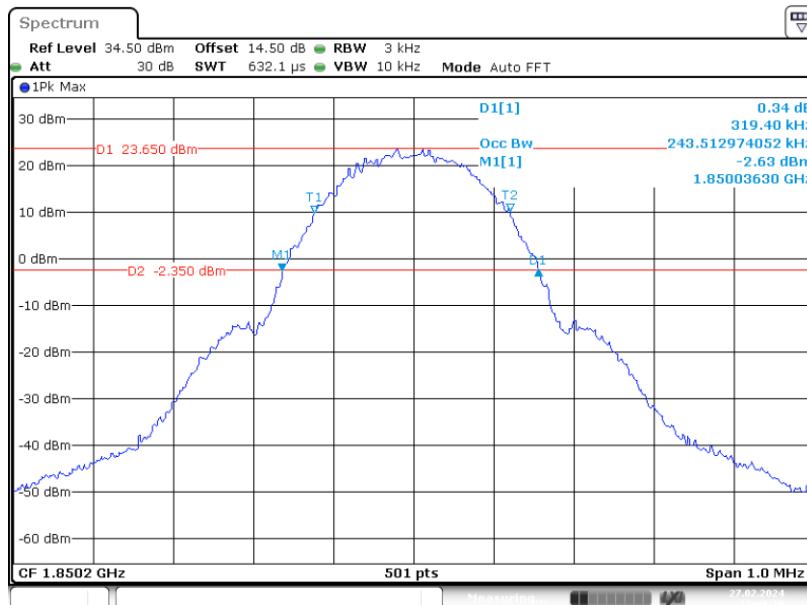


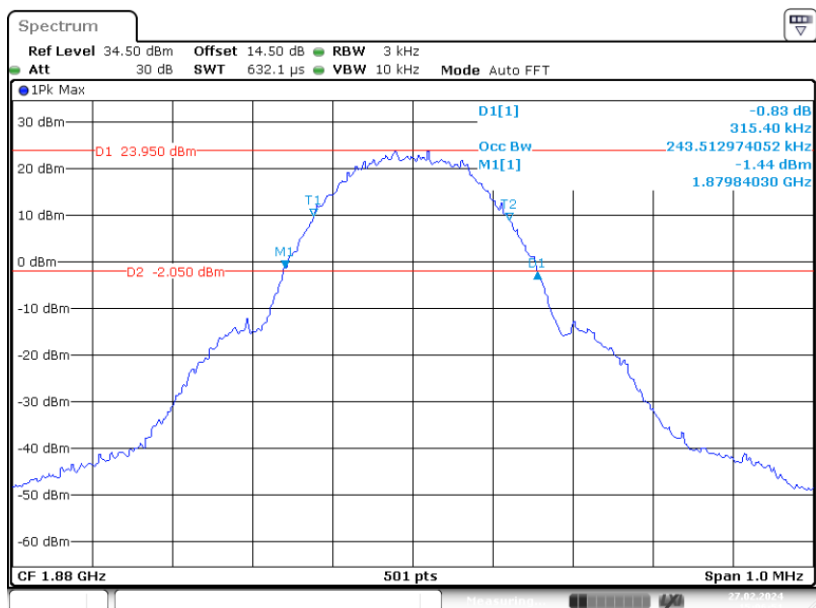
ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:29:45

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

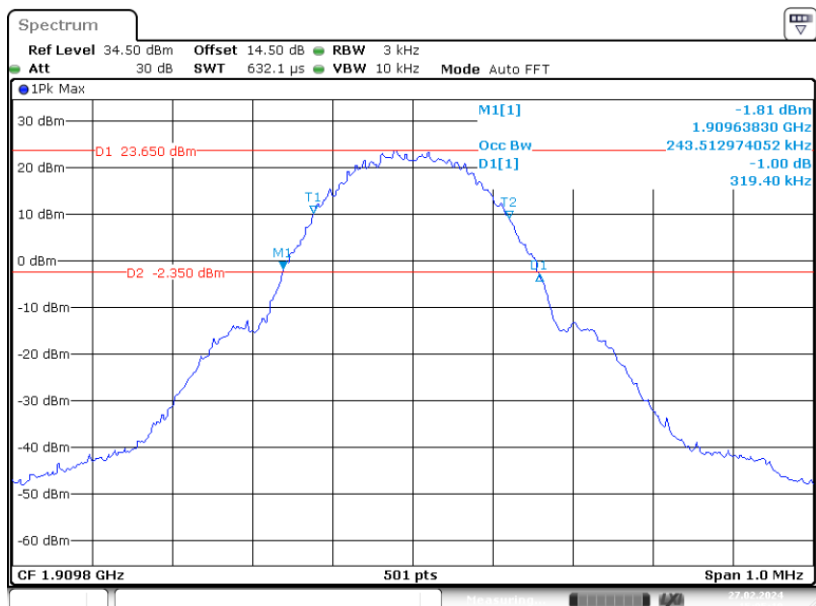


ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 14:32:47

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

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

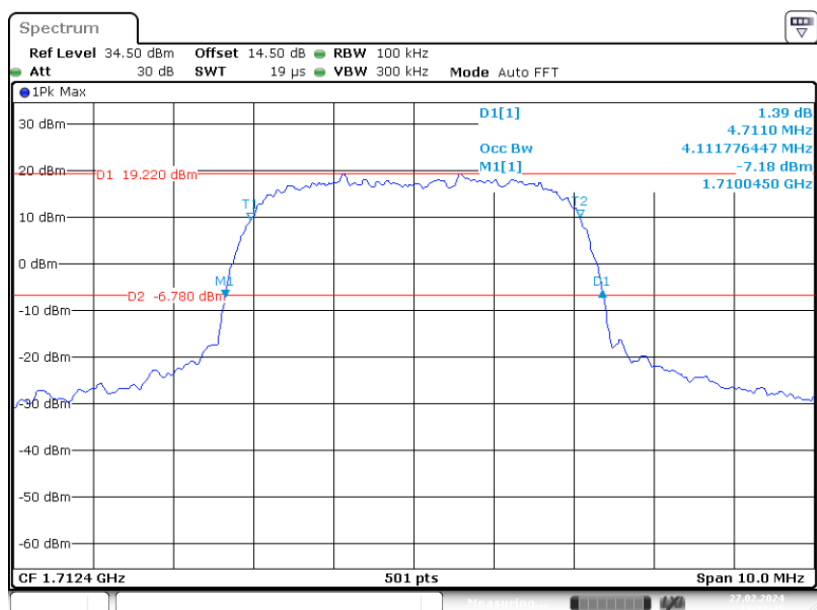
ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:06:51

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

ProjectNo.:RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 15:05:17

WCDMA Band IV

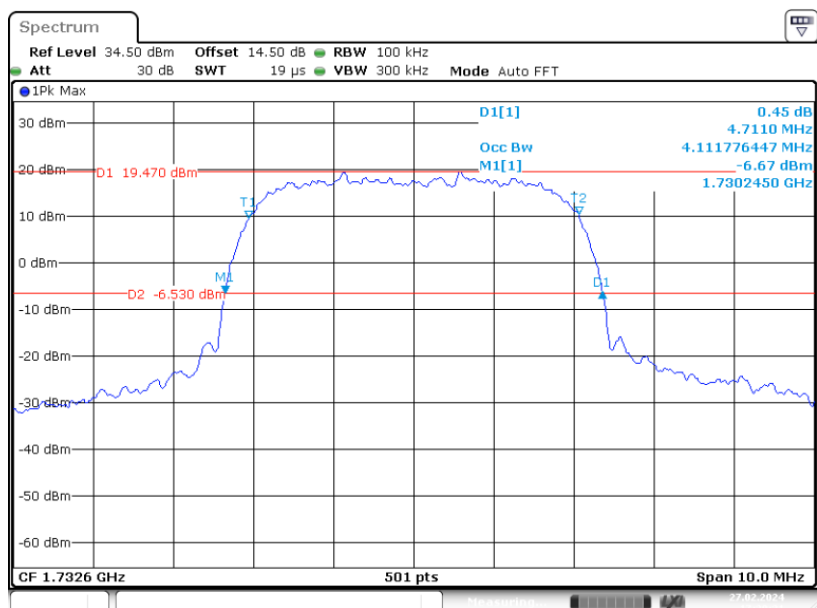
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



ProjectNo.: RSHA231206001 Tester: Bard Liu

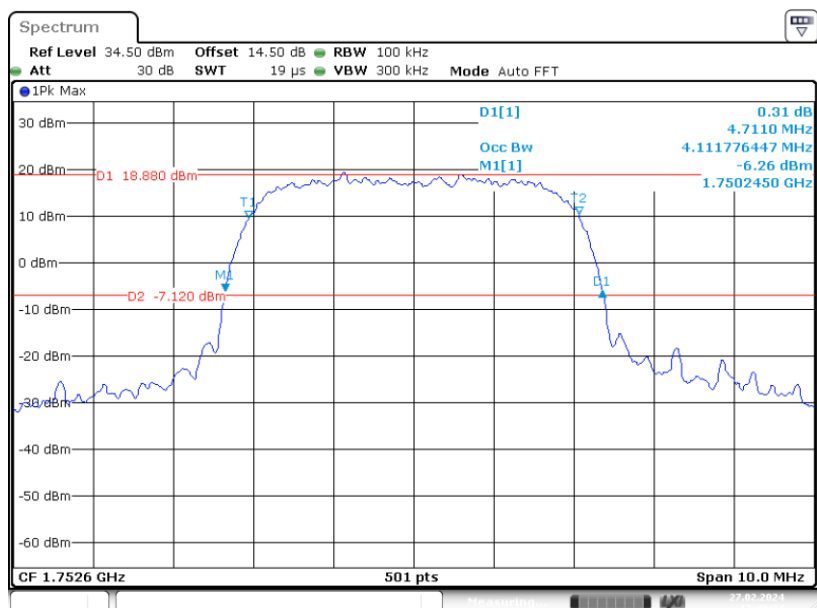
Date: 27.FEB.2024 17:33:45

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



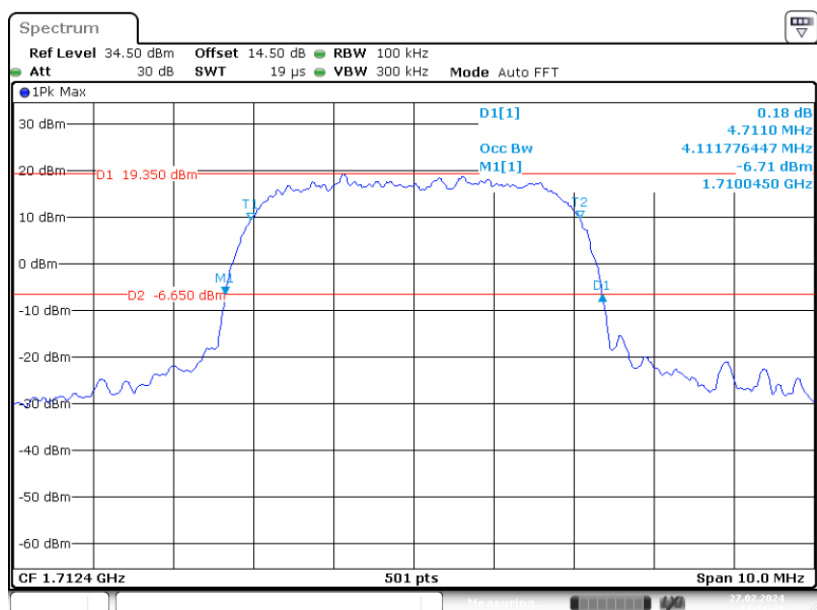
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:29:32

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

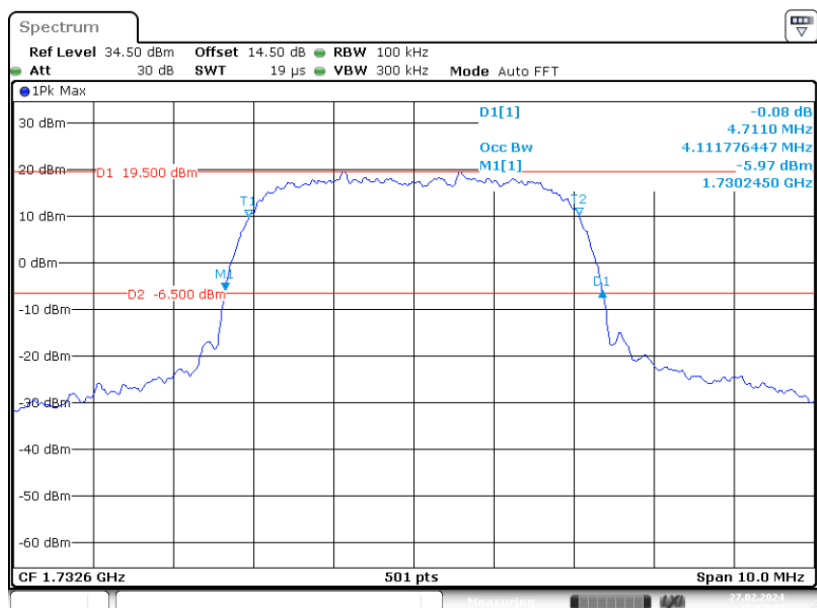
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:40:24

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

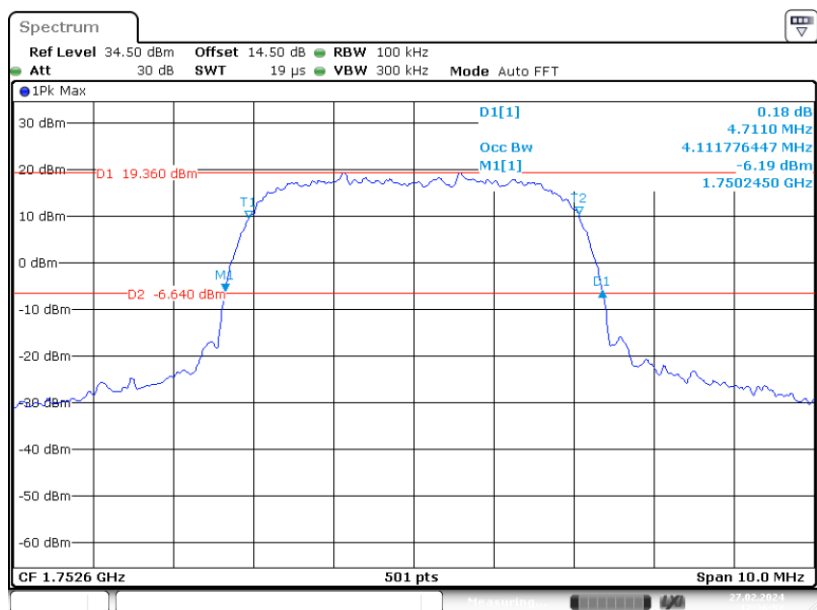
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:31:47

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

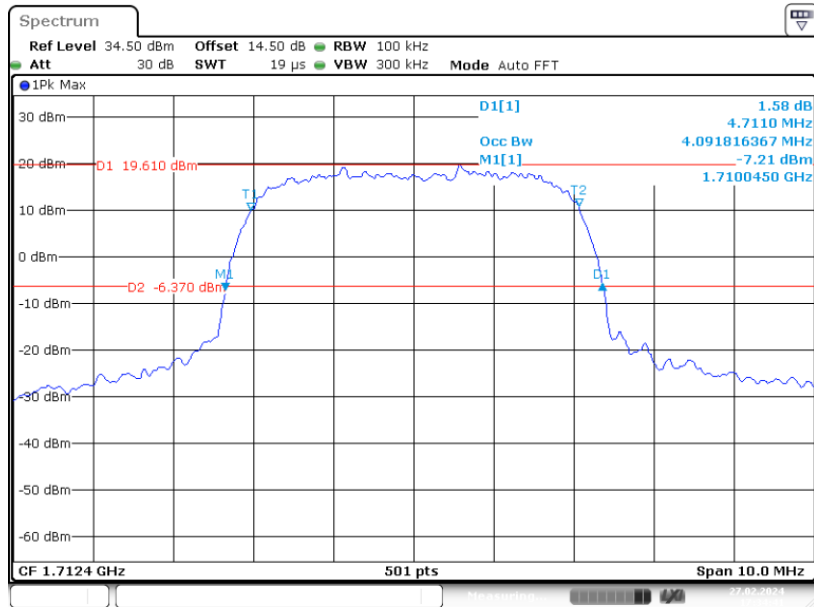
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:27:18

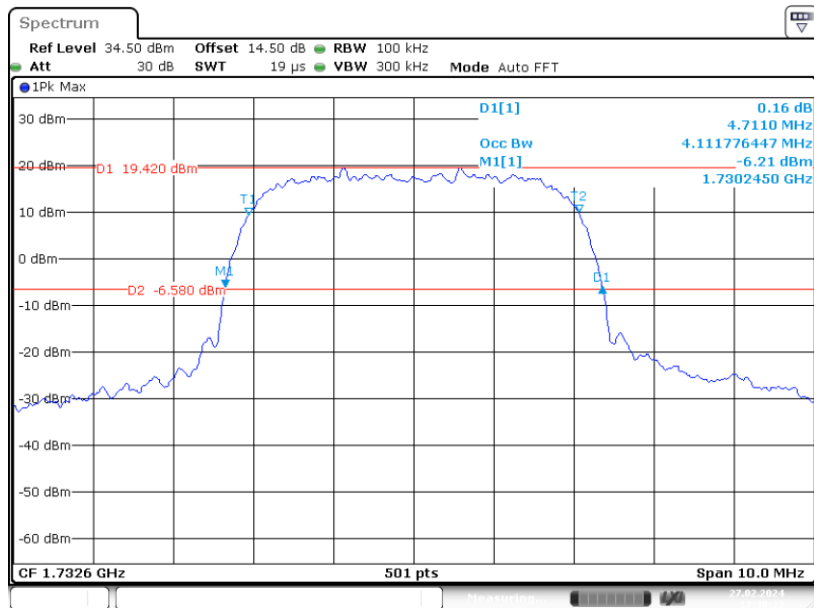
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSDPA) High channel

ProjectNo.: RSHA231206001 Tester: Bard Liu

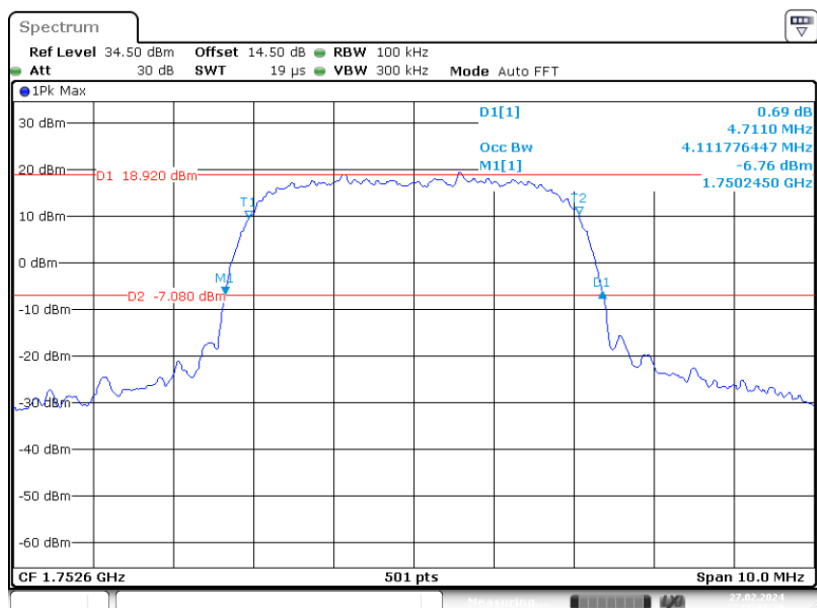
Date: 27.FEB.2024 17:36:57

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

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:34:41

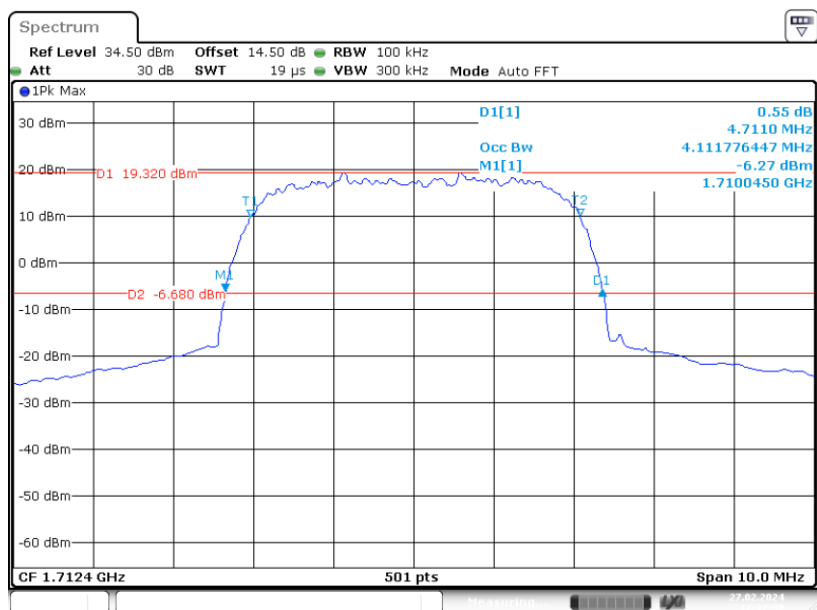
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:30:24

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

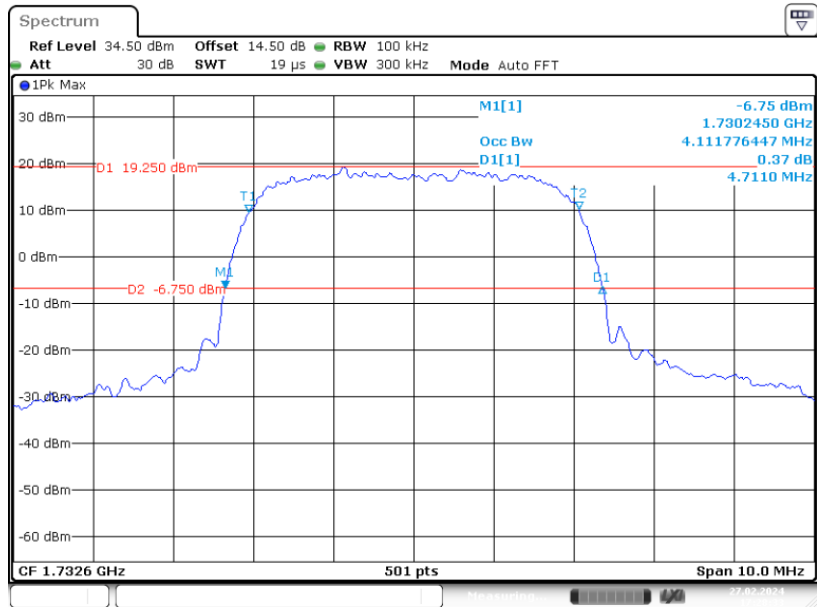
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:41:11

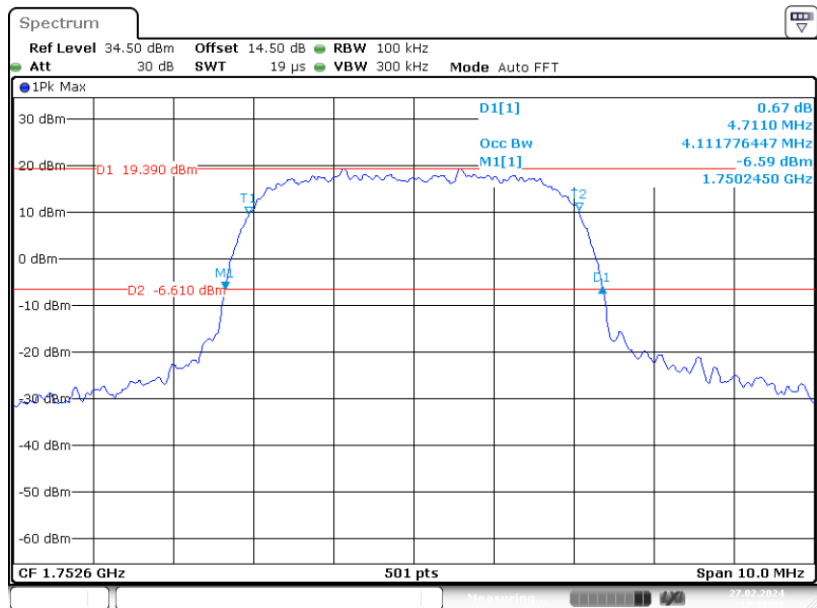
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 17:32:58

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

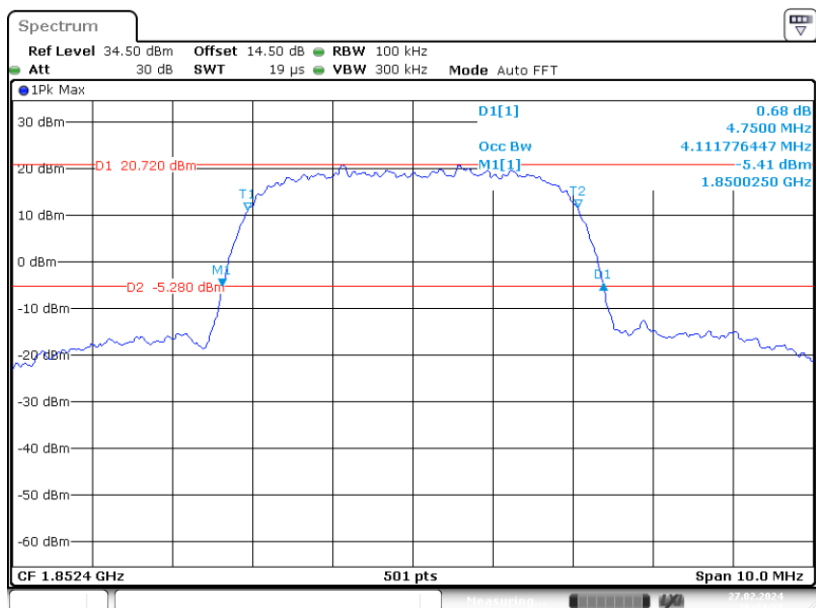
ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:28:33

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

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 17:39:09

WCDMA Band II

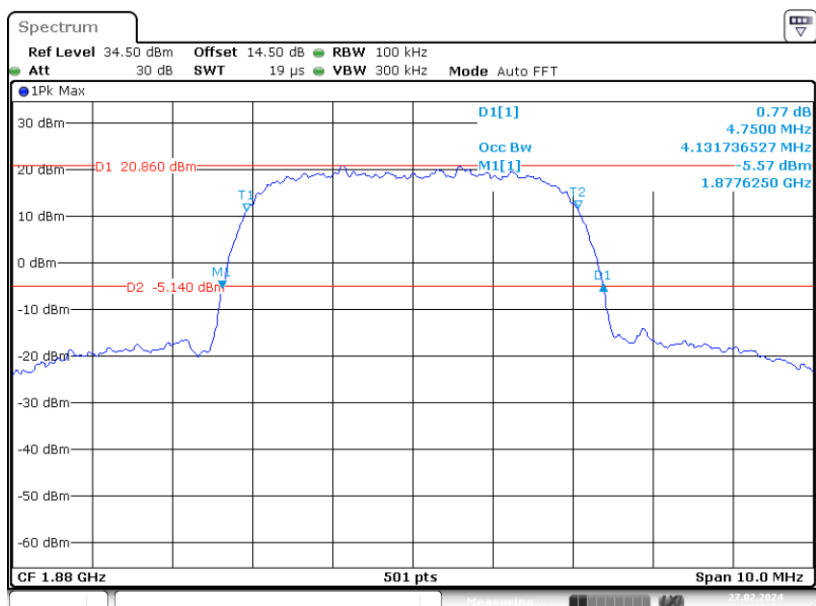
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Low channel



ProjectNo.: RSHA231206001 Tester: Bard Liu

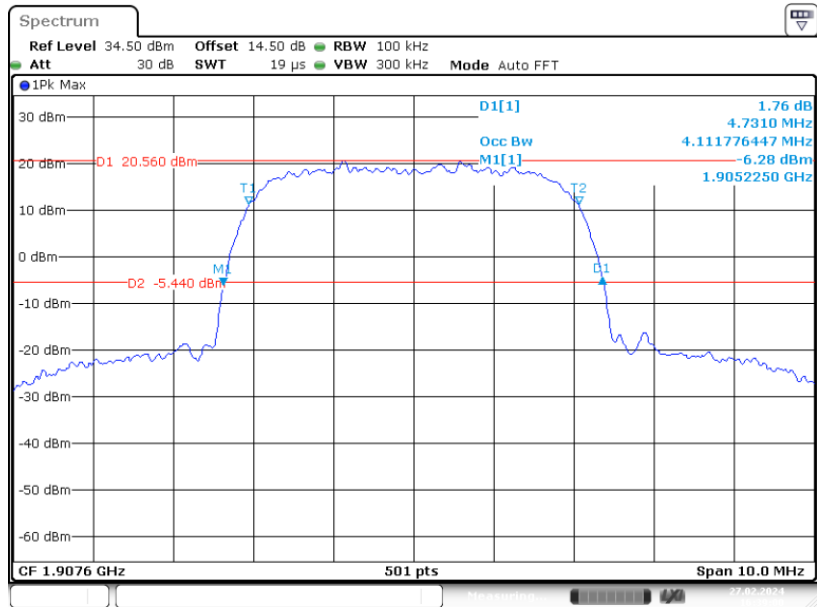
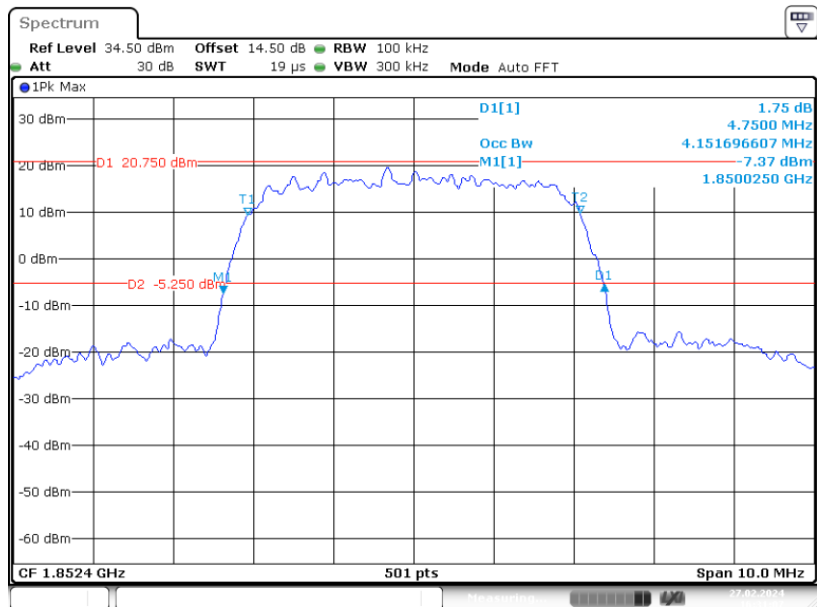
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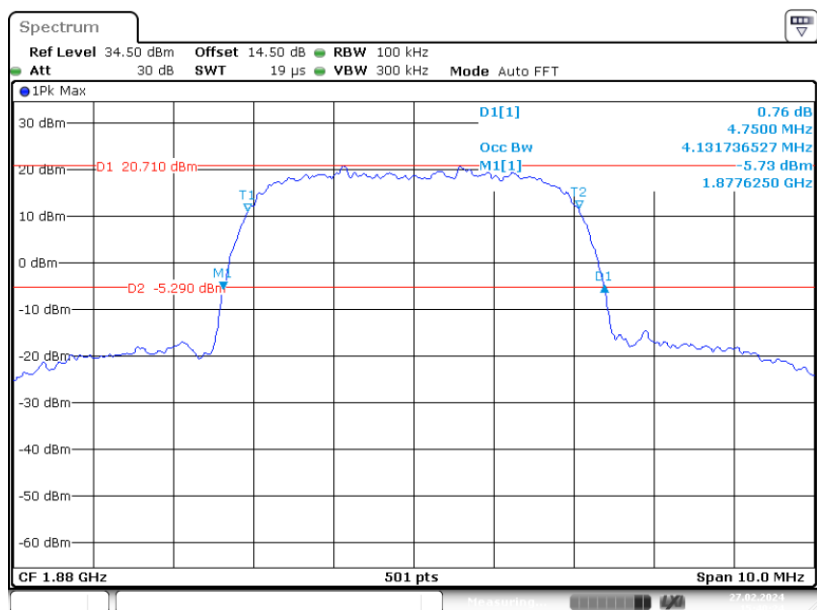
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (Rel 99) Middle channel



ProjectNo.: RSHA231206001 Tester: Bard Liu

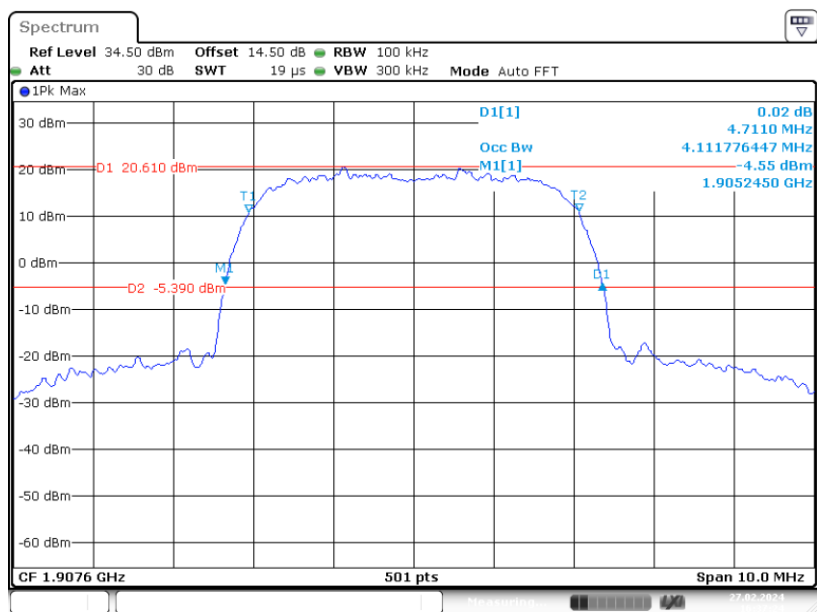
Date: 27.FEB.2024 15:38:15

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

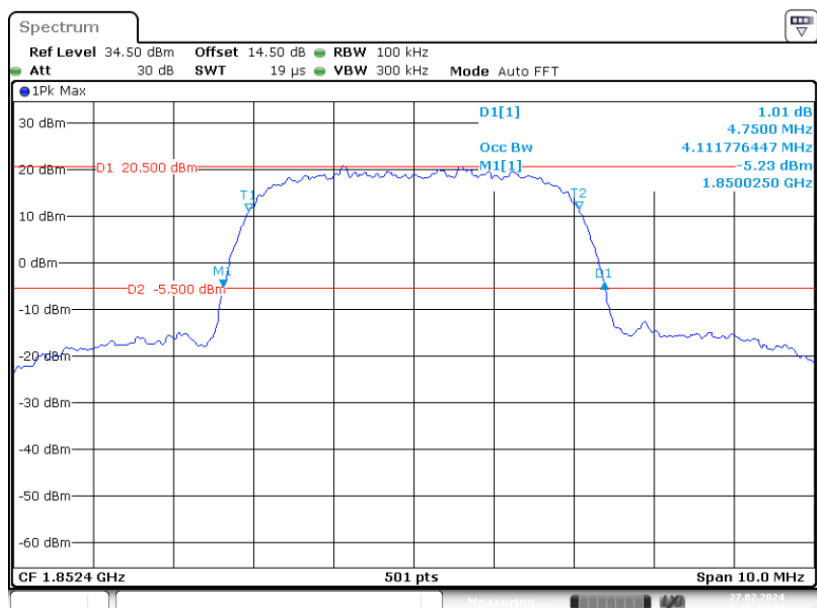
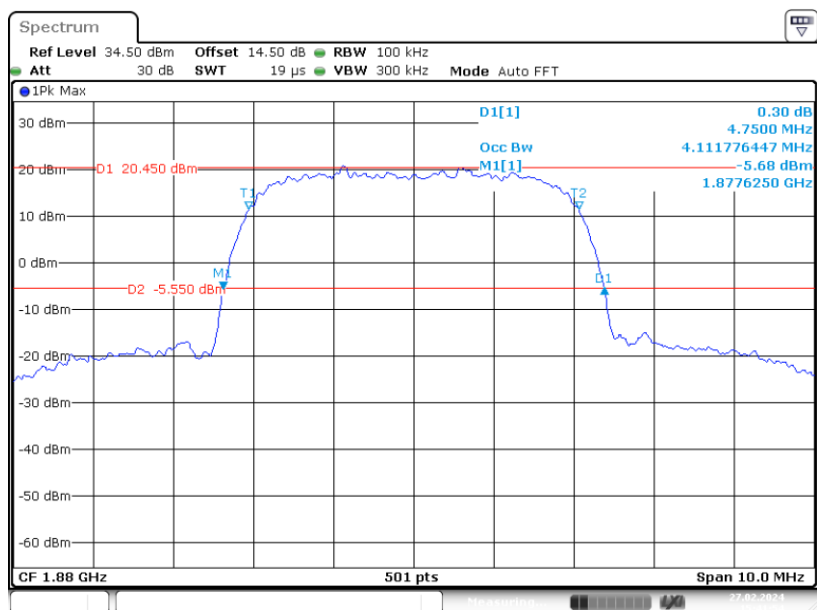
ProjectNo.: RSHA231206001 Tester: Bard Liu

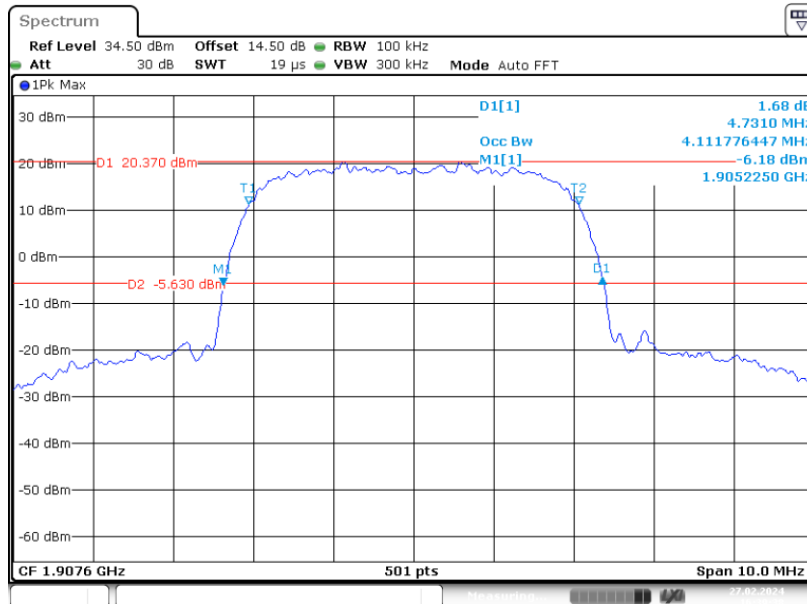
Date: 27.FEB.2024 15:40:24

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

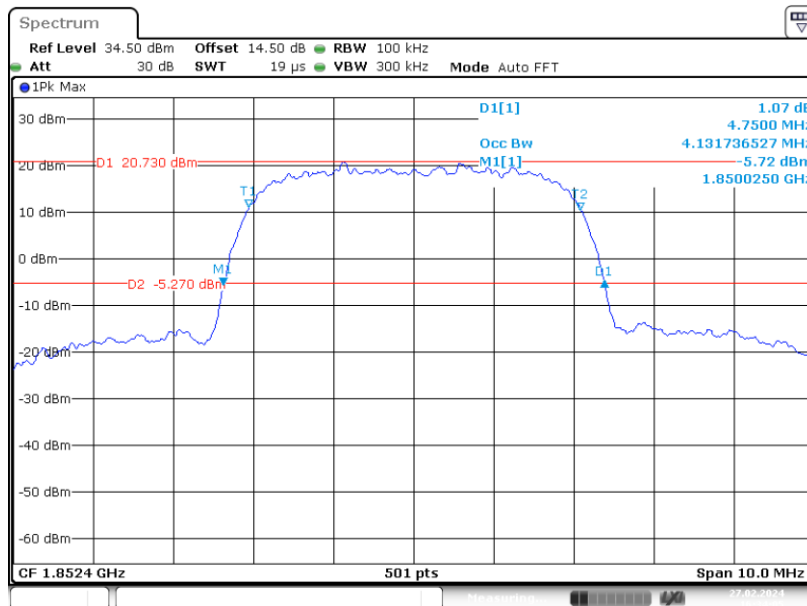
ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 16:37:24

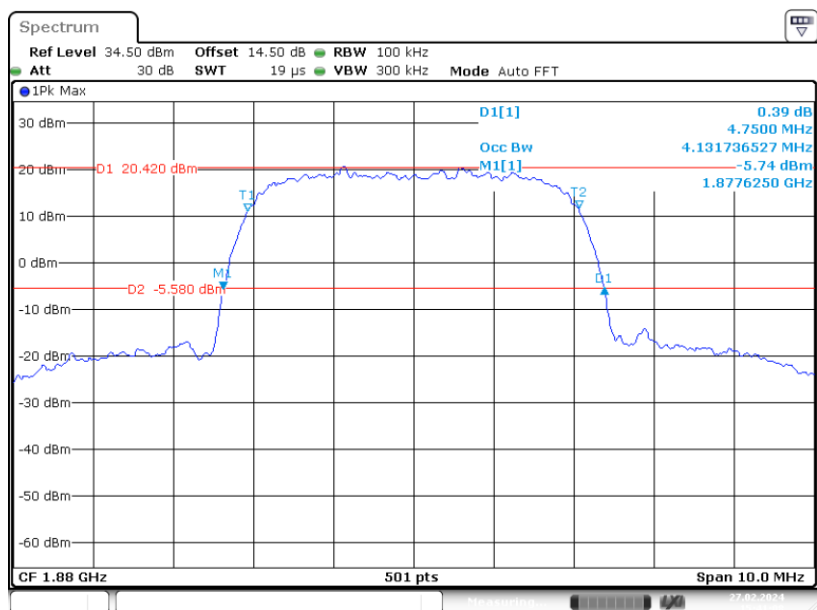
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Low channel**99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSUPA) Middle channel**

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

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:39:39

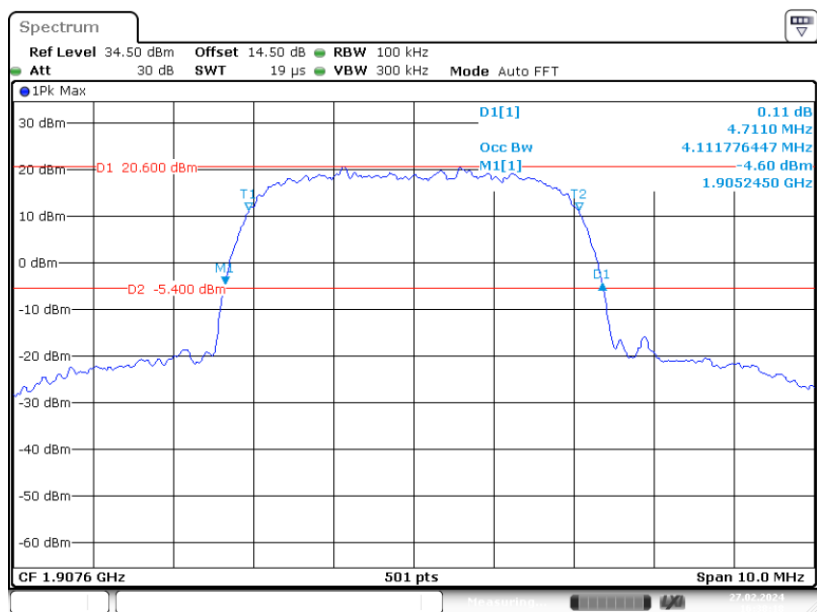
99% Occupied & 26 dB Emissions Bandwidth for WCDMA (HSPA+) Low channel

ProjectNo.: RSHA231206001 Tester: Bard Liu
Date: 27.FEB.2024 16:34:05

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

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 15:41:08

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

ProjectNo.: RSHA231206001 Tester: Bard Liu

Date: 27.FEB.2024 16:38:18

LTE Band 2:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.11	1.32	1.10	1.30	1.11	1.33
	16QAM	1.10	1.30	1.11	1.32	1.10	1.29
3 MHz	QPSK	2.70	2.93	2.68	2.96	2.69	2.92
	16QAM	2.69	2.95	2.69	2.96	2.70	2.97
5 MHz	QPSK	4.54	5.01	4.52	5.03	4.50	4.97
	16QAM	4.50	4.93	4.52	5.01	4.52	5.03
10 MHz	QPSK	8.96	9.74	8.96	9.70	8.96	9.62
	16QAM	8.96	9.58	8.96	9.62	8.96	9.70
15 MHz	QPSK	13.50	14.79	13.50	14.73	13.50	14.91
	16QAM	13.50	14.73	13.50	14.73	13.50	14.73
20 MHz	QPSK	17.92	19.08	18.00	19.32	17.92	19.56
	16QAM	17.92	19.40	17.92	19.48	17.92	19.32

LTE Band 4:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.11	1.34	1.10	1.30	1.10	1.30
	16QAM	1.09	1.30	1.10	1.31	1.11	1.30
3 MHz	QPSK	2.69	2.92	2.69	2.96	2.69	2.92
	16QAM	2.69	2.96	2.69	2.93	2.70	2.94
5 MHz	QPSK	4.52	4.95	4.52	5.01	4.52	4.97
	16QAM	4.52	4.99	4.52	5.03	4.52	5.01
10 MHz	QPSK	8.92	9.70	8.96	9.74	8.96	9.74
	16QAM	8.92	9.58	8.96	9.66	8.96	9.70
15 MHz	QPSK	13.44	14.79	13.50	14.85	13.44	14.73
	16QAM	13.50	14.73	13.50	14.67	13.50	14.79
20 MHz	QPSK	17.92	19.48	17.92	19.32	17.84	19.32
	16QAM	17.92	19.24	18.00	19.32	17.92	19.24

LTE Band 5:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.10	1.29	1.10	1.31	1.11	1.32
	16QAM	1.10	1.31	1.10	1.32	1.10	1.29
3 MHz	QPSK	2.69	2.96	2.69	2.93	2.69	2.93
	16QAM	2.69	2.93	2.69	2.93	2.69	2.93
5 MHz	QPSK	4.52	4.99	4.50	4.99	4.48	4.91
	16QAM	4.52	5.03	4.48	4.99	4.48	4.97
10 MHz	QPSK	8.96	9.70	8.92	9.66	8.96	9.54
	16QAM	9.00	9.66	8.92	9.66	8.92	9.62

LTE Band 7:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.52	4.97	4.52	4.99	4.52	4.97
	16QAM	4.52	4.99	4.52	5.01	4.50	4.93
10 MHz	QPSK	8.96	9.74	8.92	9.74	8.92	9.74
	16QAM	8.96	9.66	8.96	9.74	8.96	9.66
15 MHz	QPSK	13.50	14.85	13.50	14.79	13.44	14.79
	16QAM	13.56	14.79	13.50	14.79	13.44	14.67
20 MHz	QPSK	17.92	19.40	18.00	19.24	17.92	19.40
	16QAM	18.00	19.48	17.92	19.40	17.84	19.24

LTE Band 12:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.10	1.29	1.10	1.30	1.10	1.30
	16QAM	1.10	1.30	1.11	1.31	1.10	1.29
3 MHz	QPSK	2.70	2.95	2.69	2.91	2.69	2.93
	16QAM	2.69	2.92	2.69	2.95	2.69	2.95
5 MHz	QPSK	4.50	4.95	4.54	5.01	4.52	4.97
	16QAM	4.50	4.99	4.52	4.95	4.54	5.01
10 MHz	QPSK	8.96	9.62	8.96	9.78	8.92	9.62
	16QAM	8.92	9.54	8.96	9.78	8.92	9.66

LTE Band 13:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
5 MHz	QPSK	4.52	4.99	4.50	5.01	4.52	5.01
	16QAM	4.52	5.01	4.52	5.01	4.52	5.03
10 MHz	QPSK	/	/	8.96	9.70	/	/
	16QAM		/	8.96	9.74	/	/

LTE Band 17:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
5 MHz	QPSK	4.52	5.01	4.50	4.97	4.52	4.99
	16QAM	4.52	4.97	4.52	5.01	4.50	4.94
10 MHz	QPSK	8.96	9.70	8.96	9.74	8.96	9.66
	16QAM	8.96	9.70	8.96	9.70	8.92	9.66

LTE Band 25:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
1.4 MHz	QPSK	1.10	1.32	1.11	1.29	1.10	1.31
	16QAM	1.10	1.30	1.10	1.30	1.11	1.31
3 MHz	QPSK	2.70	2.92	2.69	2.96	2.70	2.93
	16QAM	2.69	2.96	2.69	2.93	2.69	2.93
5 MHz	QPSK	4.52	5.03	4.52	4.99	4.52	5.01
	16QAM	4.52	5.03	4.52	5.07	4.52	4.95
10 MHz	QPSK	8.96	9.62	8.96	9.78	8.96	9.70
	16QAM	8.96	9.66	8.96	9.66	8.96	9.58
15 MHz	QPSK	13.50	14.73	13.44	14.67	13.50	14.85
	16QAM	13.50	14.73	13.50	14.73	13.50	14.79
20 MHz	QPSK	17.84	19.40	17.92	19.48	17.92	19.40
	16QAM	17.84	19.24	17.92	19.40	17.92	19.40

LTE Band 26:

Bandwidth	Modulation	Low channel		Cross channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
1.4 MHz	QPSK	1.10	1.32	1.11	1.33	1.10	1.30	1.10	1.31
	16QAM	1.10	1.30	1.11	1.33	1.11	1.30	1.11	1.33
3 MHz	QPSK	2.68	2.88	2.70	2.96	2.69	2.89	2.68	2.89
	16QAM	2.68	2.90	2.70	2.98	2.67	2.88	2.68	2.88
5 MHz	QPSK	4.52	4.98	4.54	5.07	4.50	4.94	4.52	5.00
	16QAM	4.52	4.97	4.52	5.02	4.52	4.97	4.49	4.94
10 MHz	QPSK	8.97	9.68	8.97	9.94	8.97	9.68	8.97	9.62
	16QAM	8.97	9.58	8.97	9.68	8.94	9.68	8.97	9.65
15 MHz	QPSK	13.56	14.96	13.65	14.94	13.56	14.94	13.46	14.86
	16QAM	13.56	14.81	13.56	14.89	13.56	14.79	13.46	14.81

LTE Band 41:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)	OBW (MHz)	26dB EBW (MHz)
5 MHz	QPSK	4.47	4.78	4.47	4.83	4.47	4.91
	16QAM	4.46	4.85	4.47	4.89	4.45	4.86
10 MHz	QPSK	8.90	9.80	8.94	9.56	8.94	9.64
	16QAM	8.92	9.56	8.94	9.40	8.92	9.58
15 MHz	QPSK	13.41	14.46	13.41	14.40	13.38	14.25
	16QAM	13.41	14.58	13.38	14.28	13.38	14.70
20 MHz	QPSK	17.84	18.76	17.76	19.16	17.84	18.96
	16QAM	17.80	18.76	17.84	18.64	17.76	18.64

LTE Band 66:

Bandwidth	Modulation	Low channel		Middle channel		High channel	
		OBW	26dB EBW	OBW	26dB EBW	OBW	26dB EBW
		(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
1.4 MHz	QPSK	1.10	1.33	1.11	1.31	1.10	1.31
	16QAM	1.10	1.31	1.10	1.31	1.11	1.32
3 MHz	QPSK	2.69	2.96	2.69	2.93	2.70	2.95
	16QAM	2.69	2.95	2.69	2.95	2.69	2.94
5 MHz	QPSK	4.50	5.00	4.52	5.02	4.52	4.98
	16QAM	4.52	4.98	4.52	4.98	4.52	5.02
10 MHz	QPSK	8.92	9.68	8.96	9.80	8.96	9.64
	16QAM	8.96	9.72	8.96	9.68	8.96	9.60
15 MHz	QPSK	13.44	14.70	13.50	14.76	13.44	14.76
	16QAM	13.44	14.82	13.50	14.76	13.44	14.76
20 MHz	QPSK	17.92	19.28	17.92	19.12	17.92	19.28
	16QAM	17.92	19.28	17.84	19.36	17.92	19.44