



No.I19Z61915-WMD01



TEST REPORT

No. I19Z61915-WMD01

for

Ericsson AB Radio 4402 B2/B25 KRC 161737/1

Remote Radio Unit

FCC ID: TA8AKRC161737-1

IC: 287AB-AS1617371

In accordance with FCC CFR 47 Part 24 and

ISED RSS-133: Issue 6 Amendment

Issued Date: 2019-11-28

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z61915-WMD01	Rev.0	1 st edition	2019-11-28

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

Location 2: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China 100191

1.3. Project date

Testing Start Date: 2019-11-11
Testing End Date: 2019-11-28

1.4. Signature



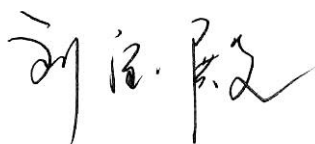
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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: Ericsson AB
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3. Equipment Under Test (EUT)

3.1. About EUT

Description	Remote Radio Unit
Product Name	Radio 4402 B2/B25
Product Number	KRC 161737/1
FCC ID	TA8AKRC161737-1
IC	287AB-AS1617371
HVIN	AS1617371
Integrated Antenna	Antenna 6523, KRE 105 280/1
Output power	Maximum 37.0 dBm (5W) per port. Maximum 34.0 dBm (2.5W) per port for LTE 1.4M and 3M single carrier. Maximum 33.0 dBm (2W) per port for NB-IoT-Standalone
Power source	36V DC
Serial Number	D829385610
Hardware Version	R1B
Software Version	CXP9013268%15_R80GS
Frequency range	B2: Rx:1850-1910MHz, Tx:1930-1990MHz, B25: Rx:1850-1915MHz, Tx:1930-1995MHz
TX/RX configuration	4 TX/RX
Maximum RF bandwidth (IBW)	LTE: 65 MHz for LTE BW>3 MHz, 20 MHz for LTE BW≤3 MHz WCDMA: 65 MHz NB-IoT Standalone: 20 MHz
Total number of supported carriers per port	Maximum 6 carriers (1 for NB-IoT standalone)
Supported modulations	WCDMA: QPSK, 16QAM, 64QAM LTE: QPSK, 16QAM, 64QAM, 256QAM NB-IoT: QPSK
Date of receipt	2019-11-11

3.2. General Description

The Equipment Under Test (EUT) is an Ericsson Antenna Integrated Radio Unit working in the wireless communications services 1900MHz band which provides communication connections to 1900MHz network in WCDMA / LTE / NB-IoT modes and MSR modes. The Radio 4402 B2/B25 KRC 161737/1 operates from a -48V DC or a 120V AC power supply.

The EUT includes 4 TX/RX ports and it can be configured to transmit in MIMO mode for LTE carriers, and MIMO mode was used for measurements as the worst configuration. The complete testing was performed with the EUT transmitting at maximum RF power unless otherwise stated.

The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.



Equipment Under Test

3.3. Configuration Description

The following settings were used to representative for all traffic scenarios when settings with different modulations, channel bandwidths, number for carriers and RF configurations have been tested to find the worst case setting. The settings below were used for all measurements unless otherwise noted:

WCDMA

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
WCDMA-1C	1 Carrier	1932.4	1962.4	1992.6
WCDMA-2C	2 Carriers	-	1932.4+1992.6	-
WCDMA-3C	3 Carriers	-	1932.4+1937.4+1992.6	-
WCDMA-6C	6 Carriers	-	1932.4+1937.4+1942.4+1982.6+1987.6+1992.6	-
WCDMA-1C-BE	1 Carrier	1932.4	N/A	1992.6
WCDMA-2C-BE	2 Carriers	1932.4+1937.4	N/A	1987.6 + 1992.6

LTE

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-MIMO-1C	1 Carrier	1.4M	1930.7	1962.5	1994.3
		3.0M	1931.5	1962.5	1993.5
		5MHz	1932.5	1962.5	1992.5
		10MHz	1935.0	1962.5	1990.0
		15MHz	1937.5	1962.5	1987.5
		20MHz	1940.0	1962.5	1985.0
LTE-MIMO-2C	2 Carriers	1.4M	1930.7+1949.3	1953.2+1971.8	1975.7+1994.3
		3.0M	1931.5+1948.5	1954.0+1971.0	1976.5+1993.5
		5MHz	-	1932.5+1992.5	-
		10MHz	-	1935+1990	-
		15MHz	-	1937.5+1987.5	-
		20MHz	-	1940+1985	-
LTE-MIMO-4C	4 Carriers	15MHz	-	1937.5+1952.5+1972.5+1987.5	-

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-MIMO-6C	6 Carriers	1.4M	1930.7+1932.1+1933.5+1946.5+1947.9+1949.3	1953.2+1954.6+1956+1969+1970.4+1971.8	1975.7+1977.1+1978.5+1991.5+1992.9+1994.3
		3.0M	1931.5+1934.5+1937.5+1942.5+1945.5+1948.5	1954.0+1957.0+1960.0+1965.0+1968.0+1971.0	1976.5+1979.5+1982.5+1987.5+1990.5+1993.5
		5MHz	-	1932.5+1937.5+1942.5+1982.5+1987.5+1992.5	-
		10MHz	-	1935+1945+1955+1970+1980+1990	-
LTE-MIMO-1C-BE	1 Carriers	1.4M	1930.7	N/A	1994.3
		3.0M	1931.5	N/A	1993.5
		5MHz	1932.5	N/A	1992.5
		10MHz	1935.0	N/A	1990.0
		15MHz	1937.5	N/A	1987.5
		20MHz	1940.0	N/A	1985.0
LTE-MIMO-2C-BE	2 Carriers	1.4M	1930.7+1932.1	N/A	1992.9+1994.3
		3.0M	1931.5+1934.5	N/A	1990.5+1993.5
		5MHz	1937.5+1942.5	N/A	1982.5+1987.5
		10MHz	1935+1945	N/A	1980+1990
		15MHz	1937.5+1952.5	N/A	1972.5+1987.5
		20MHz	1940+1960	N/A	1965+1985

NB-IoT

Configuration	Carrier	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT-InBand-1C	1 Carrier	5MHz	1932.5	1962.5	1992.5
		10MHz	1935.0	1962.5	1990.0
		15MHz	1937.5	1962.5	1987.5
		20MHz	1940.0	1962.5	1985.0
NB-IoT-Inband-1C-BE	1 Carrier	5MHz	1932.5	N/A	1992.5
		10MHz	1935.0	N/A	1990.0
		15MHz	1937.5	N/A	1987.5
		20MHz	1940.0	N/A	1985.0

Configuration	Carrier	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT-GuardBand-1 C	1 Carrier	10MHz	1935.0	1962.5	1990.0
		15MHz	1937.5	1962.5	1987.5
		20MHz	1940.0	1962.5	1985.0
NB-IoT-GuardBand-1 C-BE	1 Carrier	10MHz	1935.0	N/A	1990.0
		15MHz	1937.5	N/A	1987.5
		20MHz	1940.0	N/A	1985.0

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
NB-IoT-Standalone-1C	1 Carrier	1930.2	1962.5	1994.8
NB-IoT-Standalone-1C-BE	1 Carrier	1930.2	N/A	1994.8

WCDMA+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE-M C-1	1W+1L	1.4M	-	(W)1932.4 + (L)1994.3	-
		3.0M	-	(W)1932.4 + (L)1993.5	-
		5MHz	-	(W)1932.4 + (L)1992.5	-
		10MHz	-	(W)1932.4 + (L)1990	-
		15MHz	-	(W)1932.4 + (L)1987.5	-
		20MHz	-	(W)1932.4 + (L)1985	-
WCDMA+LTE-M C-6	1W+2L	1.4M	(L)1930.7+(W)1940+(L)1949.3	(L)1953.2+(W)1962.5+(L)1971.8	(L)1975.7+(W)1985+(L)1994.3
		3.0M	(L)1931.5+(W)1940+(L)1948.5	(L)1954+(W)1962.5+(L)1971	(L)1976.5+(W)1985+(L)1993.5
WCDMA+LTE-M C-2	2W+1L	5MHz	-	(W)1932.4+1937.4+(L)1992.5	-
		10MHz	-	(W)1932.4+1937.4+(L)1990	-
		15MHz	-	(W)1932.4+1937.4+(L)1987.5	-
		20MHz	-	(W)1932.4+1937.4+(L)1985	-

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE-MI MO-MC-3	3W+3L	1.4M	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1991.5 + 1992.9 + 1994.3	-
		3.0M	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1987.5 + 1990.5 + 1993.5	-
		5MHz	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1982.5 + 1987.5 + 1992.5	-
		10MHz	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1970 + 1980 + 1990	-
		15MHz	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1957.5 + 1972.5 + 1987.5	-
WCDMA+LTE-MI MO-MC-4	2W+3L	20MHz	-	(W)1932.4 + 1937.4 + 1942.4 + (L)1965 + 1985	-
WCDMA+LTE-M C-1-BE	1W+1L	1.4M	(L)1930.7+(W)1933.8	N/A	(W)1991.2+(L)1994.3
		3.0M	(L)1931.5+(W)1935.4	N/A	(W)1989.6+(L)1993.5
		5MHz	(W)1932.4 + (L)1937.5	N/A	(L)1987.5 + (W)1992.6
		10MHz	(W)1932.4 + (L)1940	N/A	(L)1985 + (W)1992.6
		15MHz	(W)1932.4 + (L)1942.5	N/A	(L)1982.5 + (W)1992.6
		20MHz	(W)1932.4 + (L)1945	N/A	(L)1980 + (W)1992.6
WCDMA+LTE-M C-4-BE	1W+2L	1.4M	(L)1930.7+1932.1+(W)19 35.2	N/A	(W)1989.8+(L)1992.9+19 94.3
		3.0M	(L)1931.5+1934.5+(W)19 38.4	N/A	(W)1986.6+(L)1990.5+19 93.5
WCDMA+LTE-M C-3-BE	2W+1L	5MHz	(W)1932.4+1937.4+(L)19 42.5	N/A	(L)1982.5 + (W)1987.6 + 1992.6
		10MHz	(W)1932.4+1937.4+(L)19 45	N/A	(L)1980 + (W)1987.6 + 1992.6
		15MHz	(W)1932.4+1937.4+(L)19 47.5	N/A	(L)1977.5 + (W)1987.6 + 1992.6
		20MHz	(W)1932.4+1937.4+(L)19 50	N/A	(L)1975 + (W)1987.6 + 1992.6

WCDMA+NB-IoT

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
WCDMA+NB-IoT-MC-1	1W+1SA	-	(W)1932.4 + (NB)1994.8	-
WCDMA+NB-IoT-MC-2	2W+1SA	-	(W)1932.4+1937.4+(NB)1994.8	-
WCDMA+NB-IoT-MC-4	5W+1SA	-	(W)1932.4+1937.4+1942.4+1947.4+1952.4+(NB)1994.8	-
WCDMA+NB-IoT-MC-3-BE	1W+1SA	(NB)1930.2 + (W)1933	N/A	(W)1992.2 + (NB)1994.8
WCDMA+NB-IoT-MC-4-BE	2W+1SA	(NB)1930.2 + (W)1933 + 1938	N/A	(W)1987.2 + 1992.2 + (NB)1994.8

LTE+NB-IoT

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE+NB-IoT-MC-1	1L+1SA	1.4M	(NB)1930.2+(L)1949.3	(NB)1952.7+(L)1971.8	(NB)1975.2+(L)1994.3
		3.0M	(NB)1930.2+(L)1948.5	(NB)1952.7+(L)1971	(NB)1975.2+(L)1993.5
		5MHz	-	(NB)1930.2+(L)1992.5	-
		10MHz	-	(NB)1930.2+(L)1990	-
		15MHz	-	(NB)1930.2+(L)1987.5	-
		20MHz	-	(NB)1930.3+(L)1985	-
LTE+NB-IoT-MC-2	2L+1SA	1.4M	(NB)1930.2+(L)1947.9+1949.3	(NB)1952.7+(L)1970.4+1971.8	(NB)1975.2+(L)1992.9+1994.3
		3.0M	(NB)1930.2+(L)1945.5+1948.5	(NB)1952.7+(L)1968+1971	(NB)1975.2+(L)1990.5+1993.5
		5MHz	-	(NB)1930.2+(L)1987.5+1992.5	-
		10MHz	-	(NB)1930.2+(L)1980+1990	-
		15MHz	-	(NB)1930.2+(L)1972.5+1987.5	-
		20MHz	-	(NB)1930.2+(L)1965+1985	-

LTE+NB-IoT-MC-3	5L+1SA	1.4M	(NB)1930.2+(L)1943.7+1 945.1+1946.5+1947.9+19 49.3	(NB)1952.7+(L)1966.2+1 967.6+1969+1970.4+197 1.8	(NB)1975.2+(L)1988.7+1 990.1+1991.5+1992.9+1 994.3
		3.0M	(NB)1930.2+(L)1936.5+1 939.5+1942.5+1945.5+19 48.5	(NB)1952.7+(L)1959+196 2+1965+1968+1971	(NB)1975.2+(L)1981.5+1 984.5+1987.5+1990.5+1 993.5
		5MHz	-	(NB)1930.2+(L)1972.5+1 977.5+1982.5+1987.5+19 92.5	-
		10MHz	-	(NB)1930.2+(L)1950+196 0+1970+1980+1990	-
LTE+NB-IoT-MC-4	4L+1SA	15MHz	-	(NB)1930.2+(L)1942.5+1 957.5+1972.5+1987.5	-
LTE+NB-IoT-MC-5	3L+1SA	20MHz	-	(NB)1930.2+(L)1945+196 5+1985	-
LTE+NB-IoT-MC-3-BE	1L+1SA	1.4M	(NB)1930.2 + (L)1931.1	N/A	(L)1993.9 + (NB)1994.8
		3.0M	(NB)1930.2 + (L)1931.9	N/A	(L)1993.1 + (NB)1994.8
		5MHz	(NB)1930.2 + (L)1932.9	N/A	(L)1992.1 + (NB)1994.8
		10MHz	(NB)1930.2 + (L)1935.4	N/A	(L)1989.6 + (NB)1994.8
		15MHz	(NB)1930.2 + (L)1937.9	N/A	(L)1987.1 + (NB)1994.8
		20MHz	(NB)1930.2 + (L)1940.4	N/A	(L)1984.6 + (NB)1994.8
LTE+NB-IoT-MC-4-BE	2L+1SA	1.4M	(NB)1930.2+ (L)1931.1+1932.5	N/A	(L)1992.5+1993.9+ (NB)1994.8
		3.0M	(NB)1930.2+ (L)1931.9+1934.9	N/A	(L)1990.1+1993.1+ (NB)1994.8
		5MHz	(NB)1930.2+ (L)1932.9+1937.9	N/A	(L)1987.1+1992.1+ (NB)1994.8
		10MHz	(NB)1930.2+ (L)1935.4+1945.4	N/A	(L)1979.6+1989.6+ (NB)1994.8
		15MHz	(NB)1930.2+ (L)1937.9+1952.9	N/A	(L)1972.1+1987.1+ (NB)1994.8
		20MHz	(NB)1930.2+ (L)1940.4+1960.4	N/A	(L)1964.6+1984.6+ (NB)1994.8

WCDMA+LTE+NB-IoT

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+N B-IoT-MC-1	1W+1L +1SA	1.4M	(NB)1930.2 + (W)1940 + (L)1949.3	(NB)1952.7 + (W)1962.5 + (L)1971.8	(NB)1975.2 + (W)1985 + (L)1994.3
		3.0M	(NB)1930.2 + (W)1940 + (L)1948.5	(NB)1952.7 + (W)1962.5 + (L)1971	(NB)1975.2 + (W)1985 + (L)1993.5
		5MHz	-	(NB)1930.2 + (W)1962.5 + (L)1992.5	-
		10MHz	-	(NB)1930.2 + (W)1962.5 + (L)1990	-
		15MHz	-	(NB)1930.2 + (W)1962.5 + (L)1987.5	-
		20MHz	-	(NB)1930.2 + (W)1962.5 + (L)1985	-
WCDMA+LTE+N B-IoT-MC-2	1W+2L +1SA	1.4M	(NB)1930.2+(W)1937.4+(L)1940.7+1949.3	(NB)1952.7+(W)1960+(L) 1963.2+1971.8	(NB)1975.2+(W)1982.4+(L)1985.7+1994.3
		3.0M	(NB)1930.2+(W)1937.4+(L)1941.5+1948.5	(NB)1952.7+(W)1960+(L) 1964+1971	(NB)1975.2+(W)1982.4+(L)1986.5+1993.5
WCDMA+LTE+N B-IoT-MC-3	2W+1L +1SA	5MHz	-	(NB)1930.2+(W)1960+19 65+(L)1992.5	-
		10MHz	-	(NB)1930.2+(W)1960+19 65+(L)1990	-
		15MHz	-	(NB)1930.2+(W)1960+19 65+(L)1987.5	-
		20MHz	-	(NB)1930.2+(W)1960+19 65+(L)1985	-
WCDMA+LTE+N B-IoT-MC-4	2W+3L +1SA	1.4M	(NB)1930.2+(W)1937.4 + 1942.4 +(L) 1945.7 + 1947.1 + 1949.3	(NB)1952.7+(W)1960+19 65+(L) 1968.2+1969.6+1971.8	(NB)1975.2+(W)1982.6 + 1987.6 +(L) 1990.7 + 1992.1+ 1994.3
		3.0M	(NB)1930.2+(W)2113.4 + 2118.4 +(L) 1942.5 + 1945.5 + 1948.5	(NB)1952.7+(W)1956+19 61+(L) 1965+ 1968+ 1971	(NB)1975.2+(W)2138.6 + 2143.6 +(L) 1987.5 + 1990.5+ 1993.5
WCDMA+LTE+N B-IoT-MC-5	3W+2L +1SA	5MHz	-	(NB)1930.2 + (W)1957.5 + 1962.5 + 1967.5 + (L)1987.5 + 1992.5	-
		10MHz	-	(NB)1930.2 + (W)1957.5 + 1962.5 + 1967.5 + (L)1980 + 1990	-

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE+N B-IoT-MC-5	3W+2L +1SA	15MHz	-	(NB)1930.2 + (W)1952.5 + 1957.5 + 1962.5 + (L)1972.5 + 1987.5	-
		20MHz	-	(NB)1930.2 + (W)2127.4 + 2132.4 + 2137.4 + (L)1965 + 1985	-
WCDMA+LTE+N B-IoT-MC-3-BE	1W+1L +1SA	1.4M	(NB)1930.2+(L)1931.1+(W)1934.2	N/A	(W)1990.8 + (L)1993.9 + (NB)1994.8
		3.0M	(NB)1930.2+(L)1931.9+(W)1935.8	N/A	(W)1989.2 + (L)1993.1 + (NB)1994.8
		5MHz	(NB)1930.2+(W)1932.8+(L)1937.9	N/A	(L)1987.1 + (W)1992.2 + (NB)1994.8
		10MHz	(NB)1930.2+(W)1932.8+(L)1940.4	N/A	(L)1984.6 + (W)1992.2 + (NB)1994.8
		15MHz	(NB)1930.2+(W)1932.8+(L)1942.9	N/A	(L)1982.1 + (W)1992.2 + (NB)1994.8
		20MHz	(NB)1930.2+(W)1932.8+(L)1945.4	N/A	(L)1979.6 + (W)1992.2 + (NB)1994.8
WCDMA+LTE+N B-IoT-MC-4-BE	1W+2L +1SA	1.4M	(NB)1930.2+(L)1931.1+1 932.5+(W)1935.6	N/A	(W)1989.4 + (L)1992.5+1993.9 + (NB)1994.8
		3.0M	(NB)1930.2+(L)1931.9+1 934.9+(W)1938.8	N/A	(W)1986.2 + (L)1990.1+1993.1 + (NB)1994.8
WCDMA+LTE+N B-IoT-MC-5-BE	2W+1L +1SA	5MHz	(NB)1930.2+(W)1932.8+ 1937.8+(L)1942.9	N/A	(L)1982.1 + (W)1987.2+1992.2 + (NB)1994.8
		10MHz	(NB)1930.2+(W)1932.8+ 1937.8+(L)1945.4	N/A	(L)1979.6 + (W)1987.2+1992.2 + (NB)1994.8
		15MHz	(NB)1930.2+(W)1932.8+ 1937.8+(L)1947.9	N/A	(L)1977.1 + (W)1987.2+1992.2 + (NB)1994.8
		20MHz	(NB)1930.2+(W)1932.8+ 1937.8+(L)1950.4	N/A	(L)1974.6 + (W)1987.2+1992.2 + (NB)1994.8

N/A – Not Applicable

4. Reference Documents

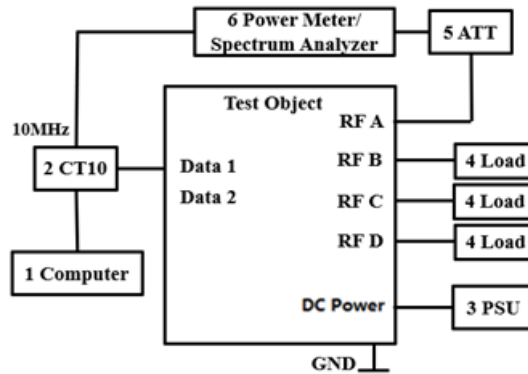
4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONSSERVICES	10-1-18 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-18 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40 GHz	2014
ANSI 63.26	IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015
TIA 102.CAAA-E	Project 25 Digital C4FM/CQPSK Transceiver Measurement Methods	2016
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS	v03r01
KDB 662911 D01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band	v02r01
RSS-GEN	General Requirements for Compliance of Radio Apparatus	Issue 5
RSS 133	2 GHz Personal Communications Services	Issue 6 amendment

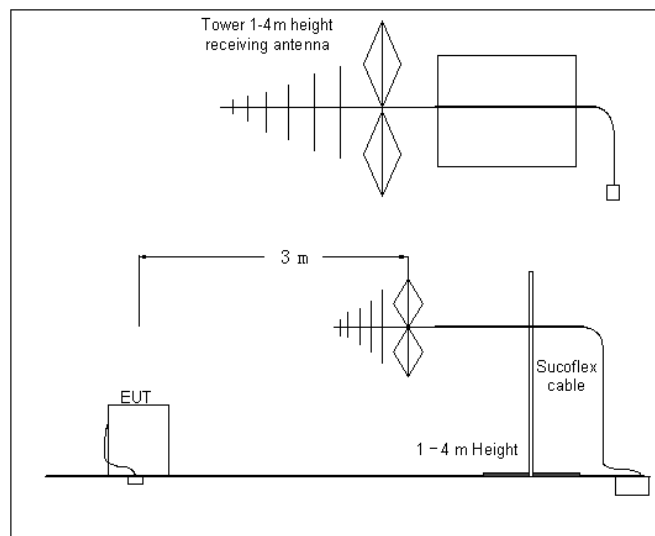
5. TEST SETUP

Test Setup, Conducted Measurement:



No.	Auxilliary Equipment	Model Type	Version
1	Computer	Dell Optiplex 3050	-
2	CT10	LPC 102 487/1	R1C
3	Power supply unit	-	-
4	Load	TF150	-
5	40dB Attenuator	Aeroflex / Weinschel	-

Test Setup, Radiated Measurement:



6. LABORATORY ENVIRONMENT

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (10 meters×6.7 meters×6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ± 3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

7. SUMMARY OF TEST RESULTS

Items	Test Name	Clause in FCC rules	Clause in ISSED rules	Verdict
1	Maximum Output Power and Peak-to-Average Power Ratio	24.232(a),(d), 2.1046	RSS-133 6.4	Pass
2	Equivalent Isotropically Radiated Power (EIRP)	24.232(a),(d), 2.1046	RSS-133 6.4	Pass
3	Occupied Bandwidth	24.238(b), 2.1049(h)	RSS-133 6.6	Pass
4	Spurious Emissions at Band Edge	24.238(b), 2.1051	RSS-133 6.5	Pass
5	Conducted Spurious Emission	24.238(a), 2.1051	RSS-133 6.5	Pass
6	Radiated Spurious Emission	24.238(a), 2.1053	RSS-133 6.5	Pass
7	Frequency Stability	24.235, 2.1055	RSS-133 6.3	Pass
8	Receiver Spurious Emission	-	-	N/A

N/A – Not Applicable

8. Test Equipments Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE
1	Power Supply	PCR2000M	PJ000583	Kikusui	2020-02-22
2	40dB Attenuator	66-40-33	CD4019	Aeroflex / Weinschel	-
3	40dB Attenuator	TSG150R-4-40N11	1511040001	Nanjing Jiexi Technologies	-
4	Spectrum Analyzer	N9030	MY57142378	Keysight	2020-02-02
5	EMI Antenna	3117	00119024	ETS-LINDGREN	2020-02-25
6	EMI Antenna	3116	2661	ETS-LINDGREN	2020-11-14
7	EMI Antenna	VULB 9163	9163-514	SCHWARZBECK	2020-01-27
8	Test Receiver	ESU26	100376	Rohde & Schwarz	2020-11-26
9	Test Receiver	FSV40	101047	R&S	2020-06-16
10	Climate Chamber	SH-241	92001145	ESPEC	2019-12-21
11	Amplifier	MY39500449	83006A	Agilent	/
12	Amplifier	SCU18	102249	R&S	/
13	Amplifier	SCU40	1707/1708	R&S	/

9. MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Discipline	Measurement Uncertainty
Conducted Maximum Peak Output Power	0.5dB
Occupied Bandwidth	1.1Hz
Conducted Spurious Emissions	2.3dB
Band Edge	2.3dB
Radiated Spurious Emissions	5.4dB
Frequency Stability	$<\pm 1 \times 10^{-7}$

ANNEX A: MEASUREMENT RESULTS

A.1 Maximum Output Power and Peak-to-Average Power Ratio

A.1.1 Reference

FCC CFR 47 Part 2, Clause 2.1046

FCC CFR 47 Part 24, Clause 24.232 (a) (d)

RSS-133, Clause 6.4

A.1.2 Method of Measurements

During the process of testing, the EUT was configured to transmit on maximum power and proper modulation. In case of the EUT was configured to MIMO mode, since the EUT transmits on all antennas simultaneously in the same frequency range, using the Measure-and-Sum approach, the output power at all antennas were tested and the total output power were then summed mathematically in linear power units according to FCC KDB 662911 D01.

A peak to average ratio measurement is performed at the conducted ports of the EUT for single carrier for single RAT mode. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) was used and 0.1% probability value recorded.

A.1.3 Limit

Output Power:

(EIRP) 1640 W or 62.15 dBm for emission bandwidth $\leq$ 1MHz

1640 W/MHz or 62.15 dBm/MHz for emission bandwidth $>$ 1MHz

Peak to Average Ratio: 13 dB

A.1.4 Measurement result

Configuration WCDMA-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	36.73	31.43	7.33	37.14	31.68	7.30	37.03	31.72	7.34
	16QAM	36.45	31.21	7.30	36.86	31.60	7.28	36.71	31.51	7.29
	64QAM	36.52	31.14	7.30	36.90	31.58	7.28	36.74	31.46	7.30

Configuration WCDMA-2C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	-	-	-	36.65	-	-	-	-	-
	16QAM	-	-	-	36.62	-	-	-	-	-
	64QAM	-	-	-	36.60	-	-	-	-	-

Configuration WCDMA-3C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	-	-	-	36.66	-	-	-	-	-
	16QAM	-	-	-	36.65	-	-	-	-	-
	64QAM	-	-	-	36.64	-	-	-	-	-

Configuration WCDMA-6C

Maximum Output Power 37.0dBm per port

Antenna	Modulation	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK	-	-	-	36.80	-	-	-	-	-
	16QAM	-	-	-	36.79	-	-	-	-	-
	64QAM	-	-	-	36.80	-	-	-	-	-

Configuration LTE-MIMO-1C

Maximum Output Power 34.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/1.4	33.86	33.02	8.35	33.79	33.25	8.35	33.88	33.32	8.49
B		33.72	33.17	8.28	33.91	33.12	8.40	33.66	33.21	8.25
C		33.91	33.06	8.39	34.02	33.21	8.34	33.96	33.21	8.30
D		33.66	32.99	8.23	33.79	33.18	8.25	33.69	33.11	8.44
Total		39.81	39.08	-	39.90	39.21	-	39.82	39.23	-
Total Power+ 8.5 dBi		48.31	47.58	-	48.40	47.71	-	48.32	47.73	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/1.4	33.83	33.09	8.10	33.90	33.20	8.34	33.86	33.12	8.34
B		33.75	33.10	8.35	33.75	33.27	8.41	33.73	33.20	8.12
C		33.90	33.07	8.27	34.02	33.24	8.20	33.94	33.34	8.28
D		33.64	33.13	8.29	33.81	33.16	8.44	33.66	33.15	8.52
Total		39.80	39.12	-	39.89	39.24	-	39.82	39.22	-
Total Power+ 8.5 dBi		48.30	47.62	-	48.39	47.74	-	48.32	47.72	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/1.4	33.79	32.98	8.26	33.83	33.09	8.40	33.86	33.05	8.31
B		33.69	32.90	8.30	33.70	33.22	8.27	33.66	33.14	8.24
C		33.93	33.15	8.47	33.99	33.24	8.24	33.93	33.20	8.29
D		33.62	33.02	8.26	33.72	33.20	8.26	33.72	33.08	8.25
Total		39.78	39.03	-	39.83	39.21	-	39.81	39.14	-
Total Power+ 8.5 dBi		48.28	47.53	-	48.33	47.71	-	48.31	47.64	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM /1.4	33.76	33.12	8.16	33.84	33.21	8.41	33.80	33.01	8.35
B		33.71	32.90	8.37	33.74	33.23	8.34	33.67	33.07	8.12
C		33.84	33.06	8.34	33.90	33.14	8.39	33.80	33.12	8.34
D		33.63	33.12	8.27	33.74	33.14	8.35	33.69	33.07	8.34
Total		39.76	39.07	-	39.83	39.20	-	39.76	39.09	-
Total Power+ 8.5 dBi		48.26	47.57	-	48.33	47.70	-	48.26	47.59	-

Maximum Output Power 34.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	QPSK/3.0	33.51	29.89	8.34	34.04	30.38	8.39	33.94	30.33
B	33.34		29.78	8.21	33.85	30.27	8.19	33.66	30.00	8.18
C	33.50		29.81	8.29	34.06	30.47	8.30	33.82	30.17	8.30
D	33.29		29.90	8.31	33.74	30.48	8.35	33.66	30.20	8.34
Total		39.43	35.87	-	39.95	36.42	-	39.79	36.20	-
Total Power+ 8.5 dBi		47.93	44.37	-	48.45	44.92	-	48.29	44.70	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/3.0	-	-	-	34.00	30.72	8.37	-	-	-
B		-	-	-	33.85	30.52	8.30	-	-	-
C		-	-	-	34.08	30.75	8.30	-	-	-
D		-	-	-	33.75	30.77	8.34	-	-	-
Total		-	-	-	39.94	36.71	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	48.44	45.21	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/3.0	-	-	-	34.00	30.47	8.24	-	-	-
B		-	-	-	33.77	30.06	8.40	-	-	-
C		-	-	-	34.10	30.25	8.25	-	-	-
D		-	-	-	33.86	30.48	8.31	-	-	-
Total		-	-	-	39.95	36.34	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	48.45	44.84	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM /3.0	-	-	-	33.97	30.37	8.35	-	-	-
B		-	-	-	33.78	30.11	8.32	-	-	-
C		-	-	-	34.03	30.39	8.30	-	-	-
D		-	-	-	33.77	30.50	8.17	-	-	-
Total		-	-	-	39.91	36.37	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	48.41	44.87	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	36.90	31.22	7.38	36.85	31.01	8.04	36.85	31.13	7.66
B		36.79	31.07	7.37	36.69	30.93	8.11	36.70	31.00	7.63
C		36.86	31.19	7.40	36.88	31.22	8.04	36.83	31.17	7.72
D		36.71	31.17	7.33	36.72	31.19	8.05	36.61	31.23	7.65
Total		42.84	37.18	-	42.81	37.11	-	42.77	37.15	-
Total Power+ 8.5 dBi		51.34	45.68	-	51.31	45.61	-	51.27	45.65	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/5.0	-	-	-	36.85	31.33	8.04	-	-	-
B		-	-	-	36.73	31.11	8.11	-	-	-
C		-	-	-	36.86	31.43	8.07	-	-	-
D		-	-	-	36.72	31.53	8.10	-	-	-
Total		-	-	-	42.81	37.37	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	45.87	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/5.0	-	-	-	36.87	31.15	8.03	-	-	-
B		-	-	-	36.70	30.99	8.11	-	-	-
C		-	-	-	36.88	31.10	8.03	-	-	-
D		-	-	-	36.74	31.23	8.10	-	-	-
Total		-	-	-	42.82	37.14	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	45.64	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	36.87	31.12	8.09	-	-	-
B		-	-	-	36.65	30.94	8.09	-	-	-
C		-	-	-	36.87	31.24	8.02	-	-	-
D		-	-	-	36.65	31.04	7.99	-	-	-
Total		-	-	-	42.78	37.11	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.28	45.61	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	36.85	28.20	7.59	36.88	28.00	8.05	36.81	28.31	7.75
B		36.70	28.19	7.59	36.71	28.16	8.08	36.62	28.08	7.78
C		36.89	28.33	7.61	36.88	28.17	8.07	36.82	28.23	7.74
D		36.72	28.10	7.57	36.70	28.22	8.07	36.62	28.20	7.79
Total		42.81	34.23	-	42.81	34.16	-	42.74	34.23	-
Total Power+ 8.5 dBi		51.31	42.73	-	51.31	42.66	-	51.24	42.73	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 10.0	-	-	-	36.82	28.49	8.07	-	-	-
B		-	-	-	36.71	28.41	8.05	-	-	-
C		-	-	-	36.85	28.43	8.06	-	-	-
D		-	-	-	36.73	28.39	8.04	-	-	-
Total		-	-	-	42.80	34.45	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	42.95	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	36.88	28.03	8.07	-	-	-
B		-	-	-	36.70	28.00	8.06	-	-	-
C		-	-	-	36.87	28.25	8.08	-	-	-
D		-	-	-	36.73	28.12	8.07	-	-	-
Total		-	-	-	42.82	34.12	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	42.62	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	36.90	28.30	8.09	-	-	-
B		-	-	-	36.72	28.01	8.06	-	-	-
C		-	-	-	36.86	28.23	8.08	-	-	-
D		-	-	-	36.72	28.12	8.06	-	-	-
Total		-	-	-	42.82	34.19	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	42.69	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	36.93	26.71	7.71	36.91	26.48	8.06	36.89	26.70	7.86
B		36.70	26.43	7.72	36.68	26.23	8.08	36.60	26.36	7.83
C		36.87	26.57	7.73	36.89	26.43	8.08	36.79	26.47	7.82
D		36.77	26.67	7.73	36.71	26.41	8.07	36.88	26.54	7.86
Total		42.84	32.62	-	42.82	32.41	-	42.81	32.54	-
Total Power+ 8.5 dBi		51.34	41.12	-	51.32	40.91	-	51.31	41.04	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 15.0	-	-	-	36.86	27.02	8.07	-	-	-
B		-	-	-	36.70	27.34	8.07	-	-	-
C		-	-	-	36.89	27.12	8.07	-	-	-
D		-	-	-	36.71	27.09	8.06	-	-	-
Total		-	-	-	42.81	33.16	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	41.66	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 15.0	-	-	-	36.89	26.43	8.07	-	-	-
B		-	-	-	36.68	26.29	8.08	-	-	-
C		-	-	-	36.87	26.32	8.10	-	-	-
D		-	-	-	36.69	26.46	8.05	-	-	-
Total		-	-	-	42.80	32.40	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	40.90	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /15.0	-	-	-	36.90	26.31	8.08	-	-	-
B		-	-	-	36.66	26.49	8.07	-	-	-
C		-	-	-	36.91	26.45	8.09	-	-	-
D		-	-	-	36.66	26.44	8.07	-	-	-
Total		-	-	-	42.80	32.44	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	40.94	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 20.0	36.90	25.27	7.83	36.89	24.90	8.07	36.87	25.30	7.90
B		36.74	25.51	7.81	36.72	25.29	8.07	36.71	25.08	7.88
C		36.88	25.50	7.83	36.87	25.22	8.10	36.89	25.30	7.88
D		36.81	25.58	7.82	36.76	25.30	8.06	36.70	25.45	7.88
Total		42.85	31.49	-	42.83	31.20	-	42.81	31.31	-
Total Power+ 8.5 dBi		51.35	39.99	-	51.33	39.70	-	51.31	39.81	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 20.0	-	-	-	36.88	25.12	8.07	-	-	-
B		-	-	-	36.69	25.00	8.08	-	-	-
C		-	-	-	36.85	25.47	8.07	-	-	-
D		-	-	-	36.92	25.62	8.07	-	-	-
Total		-	-	-	42.86	31.33	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	39.83	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 20.0	-	-	-	36.88	25.20	8.07	-	-	-
B		-	-	-	36.68	24.90	8.05	-	-	-
C		-	-	-	36.89	25.23	8.10	-	-	-
D		-	-	-	36.71	25.33	8.08	-	-	-
Total		-	-	-	42.81	31.19	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	39.69	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /20.0	-	-	-	36.89	25.18	8.08	-	-	-
B		-	-	-	36.70	25.09	8.07	-	-	-
C		-	-	-	36.86	25.27	8.08	-	-	-
D		-	-	-	36.72	25.23	8.06	-	-	-
Total		-	-	-	42.81	31.21	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	39.71	-	-	-	-

Configuration LTE-MIMO-2C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/1.4	36.64	-	-	36.87	-	-	36.97	-	-
B		36.57	-	-	36.65	-	-	36.66	-	-
C		36.91	-	-	36.92	-	-	36.91	-	-
D		36.60	-	-	36.71	-	-	36.62	-	-
Total		42.70	-	-	42.81	-	-	42.81	-	-
Total Power+ 8.5 dBi		51.20	-	-	51.31	-	-	51.31	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 1.4	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.62	-	-	-	-	-
C		-	-	-	36.90	-	-	-	-	-
D		-	-	-	36.73	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 1.4	-	-	-	36.88	-	-	-	-	-
B		-	-	-	36.62	-	-	-	-	-
C		-	-	-	36.92	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.80	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM /1.4	-	-	-	36.78	-	-	-	-	-
B		-	-	-	36.61	-	-	-	-	-
C		-	-	-	36.90	-	-	-	-	-
D		-	-	-	36.67	-	-	-	-	-
Total		-	-	-	42.76	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.26	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/3.0	36.62	-	-	36.94	-	-	36.88	-	-
B		36.39	-	-	36.68	-	-	36.57	-	-
C		36.66	-	-	36.68	-	-	36.74	-	-
D		36.43	-	-	36.82	-	-	36.60	-	-
Total		42.55	-	-	42.80	-	-	42.72	-	-
Total Power+ 8.5 dBi		51.05	-	-	51.30	-	-	51.22	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/3.0	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.72	-	-	-	-	-
C		-	-	-	36.82	-	-	-	-	-
D		-	-	-	36.74	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/3.0	-	-	-	37.00	-	-	-	-	-
B		-	-	-	36.73	-	-	-	-	-
C		-	-	-	36.83	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM/3. 0	-	-	-	36.90	-	-	-	-	-
B		-	-	-	36.71	-	-	-	-	-
C		-	-	-	36.91	-	-	-	-	-
D		-	-	-	36.73	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	-	-	-	36.76	-	-	-	-	-
B		-	-	-	36.51	-	-	-	-	-
C		-	-	-	36.75	-	-	-	-	-
D		-	-	-	36.60	-	-	-	-	-
Total		-	-	-	42.68	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.18	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/5.0	-	-	-	36.82	-	-	-	-	-
B		-	-	-	36.60	-	-	-	-	-
C		-	-	-	36.76	-	-	-	-	-
D		-	-	-	36.62	-	-	-	-	-
Total		-	-	-	42.72	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.22	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	(MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/5.0	-	-	-	36.85	-	-	-	-	-
B		-	-	-	36.52	-	-	-	-	-
C		-	-	-	36.76	-	-	-	-	-
D		-	-	-	36.56	-	-	-	-	-
Total		-	-	-	42.70	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.20	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	36.88	-	-	-	-	-
B		-	-	-	36.62	-	-	-	-	-
C		-	-	-	36.75	-	-	-	-	-
D		-	-	-	36.57	-	-	-	-	-
Total		-	-	-	42.73	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.23	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	36.99	-	-	-	-	-
B		-	-	-	36.79	-	-	-	-	-
C		-	-	-	36.86	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.86	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	-	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 10.0	-	-	-	36.99	-	-	-	-	-
B		-	-	-	36.78	-	-	-	-	-
C		-	-	-	36.83	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.85	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.35	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	36.90	-	-	-	-	-
B		-	-	-	36.77	-	-	-	-	-
C		-	-	-	36.85	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	37.01	-	-	-	-	-
B		-	-	-	36.77	-	-	-	-	-
C		-	-	-	36.84	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.85	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.35	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.78	-	-	-	-	-
C		-	-	-	36.85	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.85	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.35	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 15.0	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.79	-	-	-	-	-
C		-	-	-	36.82	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 15.0	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.79	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.79	-	-	-	-	-
Total		-	-	-	42.88	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.38	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /15.0	-	-	-	36.96	-	-	-	-	-
B		-	-	-	36.77	-	-	-	-	-
C		-	-	-	36.85	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 20.0	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.72	-	-	-	-	-
C		-	-	-	36.86	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 20.0	-	-	-	36.72	-	-	-	-	-
B		-	-	-	36.94	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 20.0	-	-	-	36.93	-	-	-	-	-
B		-	-	-	36.76	-	-	-	-	-
C		-	-	-	36.84	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /20.0	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.76	-	-	-	-	-
C		-	-	-	36.87	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Configuration LTE-MIMO-3C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 1.4	36.82	-	-	37.01	-	-	36.98	-	-
B		36.64	-	-	36.69	-	-	36.73	-	-
C		36.70	-	-	36.80	-	-	36.73	-	-
D		36.60	-	-	36.64	-	-	36.56	-	-
Total		42.71	-	-	42.81	-	-	42.77	-	-
Total Power+ 8.5 dBi		51.21	-	-	51.31	-	-	51.27	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 1.4	-	-	-	37.00	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.90	-	-	-	-	-
D		-	-	-	36.63	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 1.4	-	-	-	36.96	-	-	-	-	-
B		-	-	-	36.63	-	-	-	-	-
C		-	-	-	36.72	-	-	-	-	-
D		-	-	-	36.61	-	-	-	-	-
Total		-	-	-	42.75	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.25	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /1.4	-	-	-	36.91	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.81	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.80	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth (MHz)	POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	QPSK/ 3.0	36.79	-	-	36.99	-	-	36.89	-	-
B		36.53	-	-	36.75	-	-	36.71	-	-
C		36.62	-	-	36.90	-	-	36.80	-	-
D		36.47	-	-	36.87	-	-	36.61	-	-
Total		42.62	-	-	42.90	-	-	42.77	-	-
Total Power+ 8.5 dBi		51.12	-	-	51.40	-	-	51.27	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 3.0	-	-	-	36.98	-	-	-	-	-
B		-	-	-	36.79	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.86	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 3.0	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.67	-	-	-	-	-
C		-	-	-	36.93	-	-	-	-	-
D		-	-	-	36.69	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /3.0	-	-	-	36.94	-	-	-	-	-
B		-	-	-	36.67	-	-	-	-	-
C		-	-	-	36.91	-	-	-	-	-
D		-	-	-	36.66	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 5.0	-	-	-	36.88	-	-	-	-	-
B		-	-	-	36.67	-	-	-	-	-
C		-	-	-	36.81	-	-	-	-	-
D		-	-	-	36.34	-	-	-	-	-
Total		-	-	-	42.70	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.20	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 5.0	-	-	-	36.86	-	-	-	-	-
B		-	-	-	36.63	-	-	-	-	-
C		-	-	-	36.73	-	-	-	-	-
D		-	-	-	36.64	-	-	-	-	-
Total		-	-	-	42.74	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.24	-	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth	POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
	(MHz)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	64QAM/ 5.0	-	-	-	36.87	-	-	-	-	-
B		-	-	-	36.66	-	-	-	-	-
C		-	-	-	36.62	-	-	-	-	-
D		-	-	-	36.76	-	-	-	-	-
Total		-	-	-	42.75	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.25	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	36.87	-	-	-	-	-
B		-	-	-	36.69	-	-	-	-	-
C		-	-	-	36.75	-	-	-	-	-
D		-	-	-	36.63	-	-	-	-	-
Total		-	-	-	42.76	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.26	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	36.91	-	-	-	-	-
B		-	-	-	36.56	-	-	-	-	-
C		-	-	-	36.81	-	-	-	-	-
D		-	-	-	36.66	-	-	-	-	-
Total		-	-	-	42.76	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.26	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 10.0	-	-	-	36.85	-	-	-	-	-
B		-	-	-	36.66	-	-	-	-	-
C		-	-	-	36.80	-	-	-	-	-
D		-	-	-	36.67	-	-	-	-	-
Total		-	-	-	42.77	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.27	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	36.86	-	-	-	-	-
B		-	-	-	36.65	-	-	-	-	-
C		-	-	-	36.84	-	-	-	-	-
D		-	-	-	36.69	-	-	-	-	-
Total		-	-	-	42.78	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.28	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	36.86	-	-	-	-	-
B		-	-	-	36.63	-	-	-	-	-
C		-	-	-	36.84	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.78	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.28	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	-	-	-	36.93	-	-	-	-	-
B		-	-	-	36.68	-	-	-	-	-
C		-	-	-	36.85	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.81	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 15.0	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.68	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.74	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 15.0	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.79	-	-	-	-	-
C		-	-	-	36.87	-	-	-	-	-
D		-	-	-	36.73	-	-	-	-	-
Total		-	-	-	42.86	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /15.0	-	-	-	36.93	-	-	-	-	-
B		-	-	-	36.69	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Output Power 37.00dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 20.0	-	-	-	36.91	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	
A	16QAM/ 20.0	-	-	-	36.91	-	-	-	-	-
B		-	-	-	36.74	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 20.0	-	-	-	36.92	-	-	-	-	-
B		-	-	-	36.72	-	-	-	-	-
C		-	-	-	36.89	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /20.0	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.72	-	-	-	-	-
C		-	-	-	36.89	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Configuration LTE-MIMO-6C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	QPSK/1.4	36.90	-	-	36.91	-	-	36.94	-
B	36.66		-	-	36.71	-	-	36.75	-	-
C	36.80		-	-	36.71	-	-	36.71	-	-
D	36.78		-	-	36.60	-	-	36.55	-	-
Total		42.81	-	-	42.75	-	-	42.76	-	-
Total Power+ 8.5 dBi		51.31	-	-	51.25	-	-	51.26	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/ 1.4	-	-	-	36.95	-	-	-	-	-
B		-	-	-	36.71	-	-	-	-	-
C		-	-	-	36.67	-	-	-	-	-
D		-	-	-	36.69	-	-	-	-	-
Total		-	-	-	42.78	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.28	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/ 1.4	-	-	-	36.87	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.62	-	-	-	-	-
D		-	-	-	36.57	-	-	-	-	-
Total		-	-	-	42.71	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.21	-	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM /1.4	-	-	-	36.97	-	-	-	-	-
B		-	-	-	36.69	-	-	-	-	-
C		-	-	-	36.66	-	-	-	-	-
D		-	-	-	36.58	-	-	-	-	-
Total		-	-	-	42.75	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.25	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
	A	QPSK/3.0	36.87	-	-	36.94	-	-	36.89	-
B	36.66		-	-	36.74	-	-	36.67	-	-
C	36.62		-	-	36.90	-	-	36.65	-	-
D	36.51		-	-	36.71	-	-	36.54	-	-
Total		42.69	-	-	42.84	-	-	42.71	-	-
Total Power+ 8.5 dBi		51.19	-	-	51.34	-	-	51.21	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	16QAM/3.0	-	-	-	36.94	-	-	-	-	-
B		-	-	-	36.73	-	-	-	-	-
C		-	-	-	36.92	-	-	-	-	-
D		-	-	-	36.78	-	-	-	-	-
Total		-	-	-	42.86	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	64QAM/3.0	-	-	-	36.93	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.92	-	-	-	-	-
D		-	-	-	36.75	-	-	-	-	-
Total		-	-	-	42.85	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.35	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	256QAM /3.0	-	-	-	36.99	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.89	-	-	-	-	-
D		-	-	-	36.69	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	-	-	-	36.92	-	-	-	-	-
B		-	-	-	36.72	-	-	-	-	-
C		-	-	-	36.86	-	-	-	-	-
D		-	-	-	36.70	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/5.0	-	-	-	36.94	-	-	-	-	-
B		-	-	-	36.74	-	-	-	-	-
C		-	-	-	36.90	-	-	-	-	-
D		-	-	-	36.67	-	-	-	-	-
Total		-	-	-	42.83	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.33	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/5.0	-	-	-	36.94	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.83	-	-	-	-	-
D		-	-	-	36.65	-	-	-	-	-
Total		-	-	-	42.80	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.30	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /5.0	-	-	-	36.93	-	-	-	-	-
B		-	-	-	36.75	-	-	-	-	-
C		-	-	-	36.82	-	-	-	-	-
D		-	-	-	36.68	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 10.0	-	-	-	36.94	-	-	-	-	-
B		-	-	-	36.70	-	-	-	-	-
C		-	-	-	36.87	-	-	-	-	-
D		-	-	-	36.67	-	-	-	-	-
Total		-	-	-	42.82	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.32	-	-	-	-	-

Antenna	Modulation/ Carrier	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
	Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
	A	16QAM/ 10.0	-	-	-	36.94	-	-	-	-
B	-		-	-	36.75	-	-	-	-	-
C	-		-	-	36.90	-	-	-	-	-
D	-		-	-	36.70	-	-	-	-	-
Total		-	-	-	42.84	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.34	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 10.0	-	-	-	36.96	-	-	-	-	-
B		-	-	-	36.75	-	-	-	-	-
C		-	-	-	36.88	-	-	-	-	-
D		-	-	-	36.71	-	-	-	-	-
Total		-	-	-	42.85	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.35	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	256QAM /10.0	-	-	-	36.91	-	-	-	-	-
B		-	-	-	36.75	-	-	-	-	-
C		-	-	-	36.65	-	-	-	-	-
D		-	-	-	36.85	-	-	-	-	-
Total		-	-	-	42.81	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.31	-	-	-	-	-

Configuration LTE-MIMO-4C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ 15.0	-	-	-	37.00	-	-	-	-	-
B		-	-	-	36.77	-	-	-	-	-
C		-	-	-	36.96	-	-	-	-	-
D		-	-	-	36.75	-	-	-	-	-
Total		-	-	-	42.89	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.39	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	16QAM/ 15.0	-	-	-	37.01	-	-	-	-	-
B		-	-	-	36.77	-	-	-	-	-
C		-	-	-	36.90	-	-	-	-	-
D		-	-	-	36.75	-	-	-	-	-
Total		-	-	-	42.88	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.38	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	64QAM/ 15.0	-	-	-	36.98	-	-	-	-	-
B		-	-	-	36.76	-	-	-	-	-
C		-	-	-	36.92	-	-	-	-	-
D		-	-	-	36.72	-	-	-	-	-
Total		-	-	-	42.87	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.37	-	-	-	-	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
	A	256QAM /15.0	-	-	-	36.99	-	-	-	-
B	-		-	-	36.75	-	-	-	-	-
C	-		-	-	36.90	-	-	-	-	-
D	-		-	-	36.72	-	-	-	-	-
Total		-	-	-	42.86	-	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.36	-	-	-	-	-

Configuration NB-IoT-InBand-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/5.0	36.26	30.78	7.80	36.20	30.89	8.25	36.20	30.72	7.99
B		36.34	30.98	7.78	36.31	31.00	8.28	36.29	30.63	7.97
C		36.18	30.66	7.80	36.21	30.88	8.24	36.10	31.01	7.96
D		36.40	31.14	7.75	36.49	31.22	8.30	36.47	31.02	7.99
Total		42.32	36.91	-	42.32	37.02	-	42.29	36.87	-
Total Power+ 8.5 dBi		50.82	45.41	-	50.82	45.52	-	50.79	45.37	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER	POWER	PAR	POWER	POWER	PAR	POWER	POWER	PAR
		(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)	(dBm)	(dBm/MHz)	(db)
A	QPSK/10.0	36.38	27.65	7.87	36.31	27.87	8.30	36.25	27.65	8.07
B		36.45	27.66	7.84	36.44	27.64	8.28	36.37	27.67	8.04
C		36.48	27.84	7.88	36.27	28.14	8.31	36.56	27.90	8.03
D		36.60	27.90	7.88	36.59	28.19	8.28	36.58	27.86	8.06
Total		42.50	33.78	-	42.42	33.99	-	42.46	33.79	-
Total Power+ 8.5 dBi		51.00	42.28	-	50.92	42.49	-	50.96	42.29	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/15.0	36.27	26.03	8.01	36.20	25.70	8.25	36.16	25.90	8.10
B		36.42	26.07	7.99	36.39	25.91	8.25	36.42	25.93	8.06
C		36.50	26.19	8.01	36.61	26.09	8.26	36.54	26.18	8.06
D		36.54	26.50	7.99	36.61	26.16	8.25	36.58	26.30	8.11
Total		42.45	32.22	-	42.48	31.99	-	42.45	32.10	-
Total Power+ 8.5 dBi		50.95	40.72	-	50.98	40.49	-	50.95	40.60	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/20.0	36.24	24.70	8.04	36.24	24.58	8.25	36.22	24.66	8.15
B		36.42	24.81	8.04	36.41	24.98	8.23	36.39	24.82	8.10
C		36.51	24.90	8.05	36.51	25.70	8.27	36.49	25.07	8.12
D		36.60	25.08	8.03	36.60	25.01	8.23	36.57	24.89	8.15
Total		42.47	30.90	-	42.46	31.11	-	42.44	30.88	-
Total Power+ 8.5 dBi		50.97	39.40	-	50.96	39.61	-	50.94	39.38	-

Configuration NB-IoT-GuardBand-1C

Maximum Output Power 37.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/10.0	36.74	27.49	7.73	36.73	27.74	8.16	36.72	27.81	7.93
B		36.62	27.56	7.73	36.59	28.01	8.15	36.48	27.51	7.89
C		36.67	27.80	7.73	36.76	28.28	8.16	36.72	28.13	7.90
D		36.74	27.90	7.70	36.79	28.21	8.17	36.46	27.89	7.92
Total		42.71	33.71	-	42.74	34.09	-	42.62	33.86	-
Total Power+ 8.5 dBi		51.21	42.21	-	51.24	42.59	-	51.12	42.36	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/15.0	36.77	25.95	7.86	36.78	25.90	8.18	37.70	25.79	7.98
B		36.42	26.10	7.99	36.65	26.40	8.18	36.55	25.73	7.95
C		36.67	26.25	7.88	36.83	26.28	8.18	36.73	26.21	7.95
D		36.61	26.43	8.00	36.81	26.34	8.18	36.75	26.34	7.98
Total		42.64	32.21	-	42.79	32.25	-	42.98	32.05	-
Total Power+ 8.5 dBi		51.14	40.71	-	51.29	40.75	-	51.48	40.55	-

Antenna	Modulation/ Carrier Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/20.0	36.46	24.98	7.98	36.43	25.02	8.21	36.69	24.76	8.04
B		36.62	24.85	7.98	36.56	24.98	8.20	36.54	24.64	8.01
C		36.70	25.24	7.98	36.74	25.26	8.23	36.70	24.90	8.02
D		36.78	25.10	7.96	36.81	25.33	8.19	36.70	25.01	8.04
Total		42.66	31.07	-	42.66	31.17	-	42.68	30.85	-
Total Power+ 8.5 dBi		51.16	39.57	-	51.16	39.67	-	51.18	39.35	-

Configuration NB-IoT-StandAlone-1C

Maximum Output Power 33.0dBm per port

Antenna	Modulation/ Carrier Bandwidth (KHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR(db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR(db)
A	QPSK/ 250.0	31.95	-	4.56	32.33	-	4.59	32.18	-	4.60
B	QPSK/ 250.0	31.99	-	4.63	32.38	-	4.63	32.24	-	4.57
C	QPSK/ 250.0	31.89	-	4.62	32.35	-	4.66	32.25	-	4.62
D	QPSK/ 250.0	32.02	-	4.73	32.55	-	4.67	32.32	-	4.69
Total		37.98	-	-	38.42	-	-	38.27	-	-
Total Power+ 8.5 dBi		46.48	-	-	46.92	-	-	46.77	-	-

Configuration WCDMA+LTE-MC-1 (1WCDMA +1LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4	-	-	-	36.57	32.65	-	-	-	-
B	QPSK/ QPSK 1.4	-	-	-	36.21	32.90	-	-	-	-
C	QPSK/ QPSK 1.4	-	-	-	36.32	32.69	-	-	-	-
D	QPSK/ QPSK 1.4	-	-	-	36.51	32.81	-	-	-	-
Total		-	-	-	42.43	38.78	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.93	47.28	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0	-	-	-	36.62	29.80	-	-	-	-
B	QPSK/ QPSK 3.0	-	-	-	36.28	29.55	-	-	-	-
C	QPSK/ QPSK 3.0	-	-	-	36.40	29.81	-	-	-	-
D	QPSK/ QPSK 3.0	-	-	-	36.59	29.71	-	-	-	-
Total		-	-	-	42.50	35.74	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.00	44.24	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 5.0	-	-	-	36.72	28.21	-	-	-	-
B	QPSK/ QPSK 5.0	-	-	-	36.37	28.11	-	-	-	-
C	QPSK/ QPSK 5.0	-	-	-	36.48	28.30	-	-	-	-
D	QPSK/ QPSK 5.0	-	-	-	36.64	28.22	-	-	-	-
Total		-	-	-	42.58	34.23	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.08	42.73	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10	-	-	-	36.73	28.22	-	-	-	-
B	QPSK/ QPSK 10	-	-	-	36.41	28.28	-	-	-	-
C	QPSK/ QPSK 10	-	-	-	36.50	28.10	-	-	-	-
D	QPSK/ QPSK 10	-	-	-	36.65	28.31	-	-	-	-
Total		-	-	-	42.59	34.25	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.09	42.75	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 15	-	-	-	36.73	28.23	-	-	-	-
B	QPSK/ QPSK 15	-	-	-	36.36	28.20	-	-	-	-
C	QPSK/ QPSK 15	-	-	-	36.47	28.27	-	-	-	-
D	QPSK/ QPSK 15	-	-	-	36.68	28.12	-	-	-	-
Total		-	-	-	42.58	34.23	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.08	42.73	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20	-	-	-	36.51	28.07	-	-	-	-
B	QPSK/ QPSK 20	-	-	-	36.42	28.03	-	-	-	-
C	QPSK/ QPSK 20	-	-	-	36.66	28.08	-	-	-	-
D	QPSK/ QPSK 20	-	-	-	36.66	28.36	-	-	-	-
Total		-	-	-	42.58	34.16	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.08	42.66	-	-	-	-

Configuration WCDMA+LTE-MC-5 (1WCDMA +2LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4	36.56	31.43	-	36.87	31.28	-	36.89	31.26	-
B	QPSK/ QPSK 1.4	36.49	30.94	-	36.55	31.09	-	36.49	31.13	-
C	QPSK/ QPSK 1.4	36.87	31.03	-	36.58	31.13	-	36.62	31.03	-
D	QPSK/ QPSK 1.4	36.78	31.54	-	36.95	31.23	-	36.85	31.31	-
Total		42.70	37.26	-	42.76	37.20	-	42.74	37.20	-
Total Power+ 8.5 dBi		51.20	45.76	-	51.26	45.70	-	51.24	45.70	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0	36.73	28.49	-	36.90	28.38	-	36.80	28.44	-
B	QPSK/ QPSK 3.0	36.42	28.22	-	36.58	28.17	-	36.45	28.13	-
C	QPSK/ QPSK 3.0	36.51	28.23	-	36.66	28.21	-	36.59	28.33	-
D	QPSK/ QPSK 3.0	36.71	28.32	-	36.87	28.33	-	36.83	28.40	-
Total		42.62	34.34	-	42.78	34.29	-	42.69	34.35	-
Total Power+ 8.5 dBi		51.12	42.84	-	51.28	42.79	-	51.19	42.85	-

Configuration WCDMA+LTE-MC-2 (2WCDMA +1LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 5.0	-	-	-	36.64	26.98	-	-	-	-
B	QPSK/ QPSK 5.0	-	-	-	36.45	26.52	-	-	-	-
C	QPSK/ QPSK 5.0	-	-	-	36.50	26.79	-	-	-	-
D	QPSK/ QPSK 5.0	-	-	-	36.66	26.91	-	-	-	-
Total		-	-	-	42.58	32.82	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.08	41.32	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10	-	-	-	36.72	26.98	-	-	-	-
B	QPSK/ QPSK 10	-	-	-	36.42	26.73	-	-	-	-
C	QPSK/ QPSK 10	-	-	-	36.54	26.71	-	-	-	-
D	QPSK/ QPSK 10	-	-	-	36.72	26.93	-	-	-	-
Total		-	-	-	42.62	32.86	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.12	41.36	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 15	-	-	-	36.74	26.99	-	-	-	-
B	QPSK/ QPSK 15	-	-	-	36.42	26.60	-	-	-	-
C	QPSK/ QPSK 15	-	-	-	36.48	26.77	-	-	-	-
D	QPSK/ QPSK 15	-	-	-	36.70	27.10	-	-	-	-
Total		-	-	-	42.61	32.89	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.11	41.39	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20	-	-	-	36.75	26.98	-	-	-	-
B	QPSK/ QPSK 20	-	-	-	36.46	26.80	-	-	-	-
C	QPSK/ QPSK 20	-	-	-	36.54	26.67	-	-	-	-
D	QPSK/ QPSK 20	-	-	-	36.70	26.80	-	-	-	-
Total		-	-	-	42.63	32.83	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.13	41.33	-	-	-	-

Configuration WCDMA+LTE-MC-3 (3WCDMA +3LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4	-	-	-	36.92	28.45	-	-	-	-
B	QPSK/ QPSK 1.4	-	-	-	36.51	28.15	-	-	-	-
C	QPSK/ QPSK 1.4	-	-	-	36.60	28.32	-	-	-	-
D	QPSK/ QPSK 1.4	-	-	-	36.75	28.38	-	-	-	-
Total		-	-	-	42.72	34.35	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.22	42.85	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0	-	-	-	36.88	25.50	-	-	-	-
B	QPSK/ QPSK 3.0	-	-	-	36.48	25.04	-	-	-	-
C	QPSK/ QPSK 3.0	-	-	-	36.62	25.33	-	-	-	-
D	QPSK/ QPSK 3.0	-	-	-	36.74	25.52	-	-	-	-
Total		-	-	-	42.70	31.37	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.20	39.87	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 5.0	-	-	-	36.77	23.98	-	-	-	-
B	QPSK/ QPSK 5.0	-	-	-	36.53	23.87	-	-	-	-
C	QPSK/ QPSK 5.0	-	-	-	36.62	24.00	-	-	-	-
D	QPSK/ QPSK 5.0	-	-	-	36.81	24.23	-	-	-	-
Total		-	-	-	42.70	30.04	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.20	38.54	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 10	-	-	-	36.81	24.02	-	-	-	-
B	QPSK/ QPSK 10	-	-	-	36.52	23.88	-	-	-	-
C	QPSK/ QPSK 10	-	-	-	36.60	23.76	-	-	-	-
D	QPSK/ QPSK 10	-	-	-	36.78	24.01	-	-	-	-
Total		-	-	-	42.70	29.94	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.20	38.44	-	-	-	-

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 15	-	-	-	36.32	23.80	-	-	-	-
B	QPSK/ QPSK 15	-	-	-	36.01	23.61	-	-	-	-
C	QPSK/ QPSK 15	-	-	-	36.05	23.89	-	-	-	-
D	QPSK/ QPSK 15	-	-	-	36.28	23.87	-	-	-	-
Total		-	-	-	42.19	29.81	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.69	38.31	-	-	-	-

Configuration WCDMA+LTE-MC-4 (3WCDMA +2LTE)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. Bandwidth (MHz)	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 20	-	-	-	36.67	24.83	-	-	-	-
B	QPSK/ QPSK 20	-	-	-	36.58	24.90	-	-	-	-
C	QPSK/ QPSK 20	-	-	-	36.39	24.99	-	-	-	-
D	QPSK/ QPSK 20	-	-	-	36.80	25.80	-	-	-	-
Total		-	-	-	42.63	31.17	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.13	39.67	-	-	-	-

Configuration WCDMA+NB-IoT-MC-1 (1WCDMA+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK	-	-	-	36.34	32.42	7.43	-	-	-
B	QPSK /QPSK	-	-	-	36.06	32.20	7.42	-	-	-
C	QPSK /QPSK	-	-	-	36.06	31.91	7.44	-	-	-
D	QPSK /QPSK	-	-	-	36.30	32.50	7.41	-	-	-
Total		-	-	-	42.21	38.28	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.71	46.78	-	-	-	-

Configuration WCDMA+NB-IoT-MC-2 (2WCDMA+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK	-	-	-	36.34	31.45	7.26	-	-	-
B	QPSK /QPSK	-	-	-	35.93	31.10	7.23	-	-	-
C	QPSK /QPSK	-	-	-	36.06	30.73	7.25	-	-	-
D	QPSK /QPSK	-	-	-	36.17	31.57	7.22	-	-	-
Total		-	-	-	42.15	37.25	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.65	45.75	-	-	-	-

Configuration WCDMA+NB-IoT-MC-4 (5WCDMA+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK /QPSK	-	-	-	36.70	28.98	7.63	-	-	-
B	QPSK /QPSK	-	-	-	36.32	28.51	7.63	-	-	-
C	QPSK /QPSK	-	-	-	36.52	28.67	7.63	-	-	-
D	QPSK /QPSK	-	-	-	36.63	28.67	7.63	-	-	-
Total		-	-	-	42.57	34.73	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.07	43.23	-	-	-	-

Configuration LTE+NB-IoT-MC-1 (1LTE+1SA)

Maximum Output Power 36.5dBm per port for 1.4MHz and 3.0MHz bandwidth

Maximum Output Power 37.0dBm per port for more than 3.0MHz bandwidth

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 1.4 /QPSK	36.37	33.41	-	36.31	33.09	-	36.38	33.09	-
B	QPSK 1.4 /QPSK	35.79	32.67	-	35.91	32.87	-	35.98	32.63	-
C	QPSK 1.4 /QPSK	35.89	32.61	-	35.94	32.85	-	35.92	32.64	-
D	QPSK 1.4 /QPSK	36.07	33.14	-	36.21	33.15	-	36.20	32.93	-
Total		42.06	38.99	-	42.12	39.01	-	42.14	38.85	-
Total Power+ 8.5 dBi		50.56	47.49	-	50.62	47.51	-	50.64	47.35	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK	36.21	32.17	-	36.36	32.78	-	36.06	32.49	-
B	QPSK 3.0 /QPSK	35.89	32.03	-	35.89	32.34	-	35.77	32.33	-
C	QPSK 3.0 /QPSK	35.93	32.03	-	36.07	32.27	-	35.87	32.30	-
D	QPSK 3.0 /QPSK	36.04	32.13	-	36.18	32.54	-	36.12	32.43	-
Total		42.04	38.11	-	42.15	38.51	-	41.98	38.41	-
Total Power+ 8.5 dBi		50.54	46.61	-	50.65	47.01	-	50.48	46.91	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.77	32.02	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	36.12	31.89	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	36.25	31.62	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.44	32.04	-	-	-	-
Total		-	-	-	42.42	37.92	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.92	46.42	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.57	32.09	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.12	31.50	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	36.21	31.79	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.58	32.00	-	-	-	-
Total		-	-	-	42.40	37.87	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.90	46.37	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.47	32.13	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.16	31.58	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.32	31.72	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.47	31.98	-	-	-	-
Total		-	-	-	42.38	37.88	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.88	46.38	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.47	32.07	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.31	31.80	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.41	31.61	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.52	31.70	-	-	-	-
Total		-	-	-	42.45	37.82	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.95	46.32	-	-	-	-

Configuration LTE+NB-IoT-MC-2 (2LTE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 1.4 /QPSK	36.68	31.47	-	36.62	31.73	-	36.65	31.78	-
B	QPSK 1.4 /QPSK	36.34	31.27	-	36.43	31.58	-	36.37	31.47	-
C	QPSK 1.4 /QPSK	36.45	31.23	-	36.42	31.58	-	36.44	31.68	-
D	QPSK 1.4 /QPSK	36.50	31.71	-	36.61	31.80	-	36.55	31.98	-
Total		42.51	37.44	-	42.54	37.69	-	42.52	37.75	-
Total Power+ 8.5 dBi		51.01	45.94	-	51.04	46.19	-	51.02	46.25	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK	36.87	31.45	-	36.77	31.56	-	36.73	31.82	-
B	QPSK 3.0 /QPSK	36.38	31.24	-	36.46	31.68	-	36.27	31.86	-
C	QPSK 3.0 /QPSK	36.35	31.21	-	36.45	31.28	-	36.28	31.57	-
D	QPSK 3.0 /QPSK	36.67	31.49	-	36.50	31.73	-	36.59	32.00	-
Total		42.59	37.37	-	42.57	37.59	-	42.49	37.84	-
Total Power+ 8.5 dBi		51.09	45.87	-	51.07	46.09	-	50.99	46.34	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.14	30.77	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	36.05	30.62	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	35.95	30.58	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.19	30.98	-	-	-	-
Total		-	-	-	42.10	36.76	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.60	45.26	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.68	31.78	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.32	31.23	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	36.34	31.23	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.50	30.98	-	-	-	-
Total		-	-	-	42.48	37.34	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.98	45.84	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.85	31.45	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.32	31.20	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.37	30.94	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.49	31.10	-	-	-	-
Total		-	-	-	42.53	37.20	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.03	45.70	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.57	31.09	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.37	30.99	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.36	30.98	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.46	31.43	-	-	-	-
Total		-	-	-	42.46	37.15	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.96	45.65	-	-	-	-

Configuration LTE+NB-IoT-MC-3 (5LTE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 1.4 /QPSK	36.61	28.53	-	36.91	28.98	-	36.49	28.43	-
B	QPSK 1.4 /QPSK	36.30	28.18	-	36.45	28.43	-	36.12	28.09	-
C	QPSK 1.4 /QPSK	36.33	28.36	-	36.60	28.52	-	36.12	28.50	-
D	QPSK 1.4 /QPSK	36.53	28.34	-	36.71	28.78	-	36.33	28.22	-
Total		42.47	34.37	-	42.69	34.70	-	42.29	34.33	-
Total Power+ 8.5 dBi		50.97	42.87	-	51.19	43.20	-	50.79	42.83	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 3.0 /QPSK	36.42	28.37	-	36.77	28.99	-	36.76	28.80	-
B	QPSK 3.0 /QPSK	36.17	28.09	-	36.52	28.54	-	36.32	28.05	-
C	QPSK 3.0 /QPSK	36.26	28.17	-	36.60	28.67	-	36.35	28.25	-
D	QPSK 3.0 /QPSK	36.40	28.13	-	36.75	28.73	-	36.58	28.36	-
Total		42.33	34.21	-	42.68	34.76	-	42.53	34.39	-
Total Power+ 8.5 dBi		50.83	42.71	-	51.18	43.26	-	51.03	42.89	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.83	28.49	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	36.45	28.34	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	36.49	27.97	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.69	28.24	-	-	-	-
Total		-	-	-	42.64	34.28	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.14	42.78	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.76	28.12	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.48	28.09	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	36.52	28.01	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.73	28.29	-	-	-	-
Total		-	-	-	42.64	34.15	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.14	42.65	-	-	-	-

Configuration LTE+NB-IoT-MC-4 (4LTE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.81	28.12	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.44	29.02	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.53	29.05	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.69	29.04	-	-	-	-
Total		-	-	-	42.64	34.85	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.14	43.35	-	-	-	-

Configuration LTE+NB-IoT-MC-5 (3LTE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.70	30.01	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.47	29.70	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.55	30.10	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.74	30.26	-	-	-	-
Total		-	-	-	42.64	36.04	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.14	44.54	-	-	-	-

Configuration WCDMA+LTE+NB-IoT-MC-1 (1WCDMA+1LTE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod/. LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4/ QPSK	36.54	31.57	-	36.79	31.98	-	36.71	31.78	-
B	QPSK/ QPSK 1.4/ QPSK	36.43	31.23	-	36.36	31.83	-	36.43	31.51	-
C	QPSK/ QPSK 1.4/ QPSK	36.42	31.21	-	36.73	31.51	-	36.47	31.61	-
D	QPSK/ QPSK 1.4/ QPSK	36.51	31.34	-	36.66	31.51	-	36.67	31.90	-
Total		42.50	37.36	-	42.66	37.73	-	42.59	37.72	-
Total Power+ 8.5 dBi		51.00	45.86	-	51.16	46.23	-	51.09	46.22	-

Antenna	WCDMA Mod/. LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0/ QPSK	36.88	31.42	-	36.73	31.45	-	36.73	32.01	-
B	QPSK/ QPSK 3.0/ QPSK	36.31	31.04	-	36.45	31.61	-	36.39	31.40	-
C	QPSK/ QPSK 3.0/ QPSK	36.37	31.56	-	36.54	31.97	-	36.39	31.79	-
D	QPSK/ QPSK 3.0/ QPSK	36.51	31.51	-	36.63	31.74	-	36.59	31.73	-
Total		42.54	37.41	-	42.61	37.72	-	42.55	37.76	-
Total Power+ 8.5 dBi		51.04	45.91	-	51.11	46.22	-	51.05	46.26	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.29	30.92	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	35.99	30.83	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	36.07	30.73	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.12	30.71	-	-	-	-
Total		-	-	-	42.14	36.82	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.64	45.32	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.32	31.37	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.13	30.87	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	36.19	31.25	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.17	30.76	-	-	-	-
Total		-	-	-	42.22	37.09	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.72	45.59	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.35	31.19	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.12	30.81	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.27	31.12	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.21	30.53	-	-	-	-
Total		-	-	-	42.26	36.94	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.76	45.44	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.53	31.12	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.12	30.68	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.24	30.56	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.20	31.42	-	-	-	-
Total		-	-	-	42.30	36.98	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.80	45.48	-	-	-	-

Configuration WCDMA+LTE+NB-IoT-MC-2(1WCDMA+2TE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4/ QPSK	36.92	30.32	-	36.63	30.18	-	36.83	30.79	-
B	QPSK/ QPSK 1.4/ QPSK	36.38	30.18	-	36.61	30.71	-	36.54	30.56	-
C	QPSK/ QPSK 1.4/ QPSK	36.49	30.24	-	36.63	30.77	-	36.52	30.44	-
D	QPSK/ QPSK 1.4/ QPSK	36.46	29.78	-	36.83	30.28	-	36.90	30.29	-
Total		42.59	36.16	-	42.70	36.51	-	42.72	36.54	-
Total Power+ 8.5 dBi		51.09	44.66	-	51.20	45.01	-	51.22	45.04	-

Antenna	WCDMA Mod./ LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0/ QPSK	36.79	30.39	-	36.98	30.71	-	36.72	30.74	-
B	QPSK/ QPSK 3.0/ QPSK	36.58	29.91	-	36.67	30.38	-	36.57	30.39	-
C	QPSK/ QPSK 3.0/ QPSK	36.58	30.23	-	36.63	30.16	-	36.52	30.71	-
D	QPSK/ QPSK 3.0/ QPSK	36.79	29.70	-	36.82	30.37	-	36.74	30.48	-
Total		42.71	36.09	-	42.80	36.43	-	42.66	36.60	-
Total Power+ 8.5 dBi		51.21	44.59	-	51.30	44.93	-	51.16	45.10	-

Configuration WCDMA+LTE+NB-IoT-MC-3(2WCDMA+1TE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.64	29.91	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	36.36	29.74	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	36.30	30.01	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.56	30.08	-	-	-	-
Total		-	-	-	42.49	35.96	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.99	44.46	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.71	30.21	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.36	29.96	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	35.48	30.10	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.60	30.07	-	-	-	-
Total		-	-	-	42.33	36.11	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	50.83	44.61	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.74	30.19	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.43	29.48	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.50	30.24	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.70	29.97	-	-	-	-
Total		-	-	-	42.62	36.00	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.12	44.50	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.58	30.13	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.40	29.97	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.53	30.02	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.60	30.02	-	-	-	-
Total		-	-	-	42.55	36.06	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.05	44.56	-	-	-	-

Configuration WCDMA+LTE+NB-IoT-MC-4(2WCDMA+3TE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	WCDMA Mod./ LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 1.4/ QPSK	36.60	28.23	-	36.71	29.04	-	36.59	28.89	-
B	QPSK/ QPSK 1.4/ QPSK	36.35	27.91	-	36.55	28.44	-	36.23	28.22	-
C	QPSK/ QPSK 1.4/ QPSK	36.32	28.53	-	36.55	28.59	-	36.29	28.52	-
D	QPSK/ QPSK 1.4/ QPSK	36.43	28.01	-	36.80	28.93	-	36.43	28.73	-
Total		42.45	34.20	-	42.67	34.78	-	42.41	34.62	-
Total Power+ 8.5 dBi		50.95	42.70	-	51.17	43.28	-	50.91	43.12	-

Antenna	WCDMA Mod./ LTE Mod. BW(MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK/ QPSK 3.0/ QPSK	36.58	28.90	-	36.92	29.00	-	36.59	29.11	-
B	QPSK/ QPSK 3.0/ QPSK	36.15	28.65	-	36.50	28.36	-	36.34	28.53	-
C	QPSK/ QPSK 3.0/ QPSK	36.24	28.68	-	36.62	28.78	-	36.38	28.45	-
D	QPSK/ QPSK 3.0/ QPSK	36.32	28.72	-	36.82	29.00	-	36.64	28.73	-
Total		42.35	34.76	-	42.74	34.81	-	42.51	34.73	-
Total Power+ 8.5 dBi		50.85	43.26	-	51.24	43.31	-	51.01	43.23	-

Configuration WCDMA+LTE+NB-IoT-MC-5(3WCDMA+2TE+1SA)

Maximum Output Power 37.0dBm per port

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 5.0 /QPSK	-	-	-	36.67	28.42	-	-	-	-
B	QPSK 5.0 /QPSK	-	-	-	36.45	28.02	-	-	-	-
C	QPSK 5.0 /QPSK	-	-	-	36.48	28.23	-	-	-	-
D	QPSK 5.0 /QPSK	-	-	-	36.79	28.21	-	-	-	-
Total		-	-	-	42.62	34.24	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.12	42.74	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 10.0 /QPSK	-	-	-	36.77	28.21	-	-	-	-
B	QPSK 10.0 /QPSK	-	-	-	36.48	27.97	-	-	-	-
C	QPSK 10.0 /QPSK	-	-	-	36.57	27.50	-	-	-	-
D	QPSK 10.0 /QPSK	-	-	-	36.77	28.49	-	-	-	-
Total		-	-	-	42.67	34.08	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.17	42.58	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 15.0 /QPSK	-	-	-	36.73	28.43	-	-	-	-
B	QPSK 15.0 /QPSK	-	-	-	36.57	28.34	-	-	-	-
C	QPSK 15.0 /QPSK	-	-	-	36.53	28.52	-	-	-	-
D	QPSK 15.0 /QPSK	-	-	-	36.77	28.41	-	-	-	-
Total		-	-	-	42.67	34.45	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.17	42.95	-	-	-	-

Antenna	LTE Mod. Bandwidth (MHz)/ SA Mod.	Output Power / Peak to Average Ratio (PAR)								
		Channel position B			Channel position M			Channel position T		
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
A	QPSK 20.0 /QPSK	-	-	-	36.75	28.13	-	-	-	-
B	QPSK 20.0 /QPSK	-	-	-	36.52	28.25	-	-	-	-
C	QPSK 20.0 /QPSK	-	-	-	36.60	28.34	-	-	-	-
D	QPSK 20.0 /QPSK	-	-	-	36.75	27.98	-	-	-	-
Total		-	-	-	42.68	34.20	-	-	-	-
Total Power+ 8.5 dBi		-	-	-	51.18	42.70	-	-	-	-

NOTE:

The DUT is tested without antenna. ERP/EIRP compliance is addressed at the time of licensing, as required by the responsible FCC/ISED Bureau(s). Licensee's are required to take into account maximum allowed antenna gain used in combination with above power settings to prevent the radiated output power to exceed the limits.

A.2 Occupied Bandwidth

A.2.1 Reference

FCC CFR 47 Part 2, Clause 2.1049(h)

FCC CFR 47 Part 24, Clause 24.238 (b)

RSS-GEN, Clause 6.6

A.2.2 Method of Measurements

The EUT was set to transmit at maximum power and testing was carried out on bottom, middle and top channels. Using the Occupied Bandwidth measurement function in the spectrum analyzer, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 Power Measurement License Digital Systems v02r02 Clause 4.2. In addition, measurements of 99% occupied bandwidths were made in accordance with RSS-GEN Clause 6.6.

The measurement method is from KDB 971168 4.2:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10\log(\text{OBW} / \text{RBW})$ below the reference level.
- d) Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

A.2.3 Measurement result

Configuration WCDMA-1C

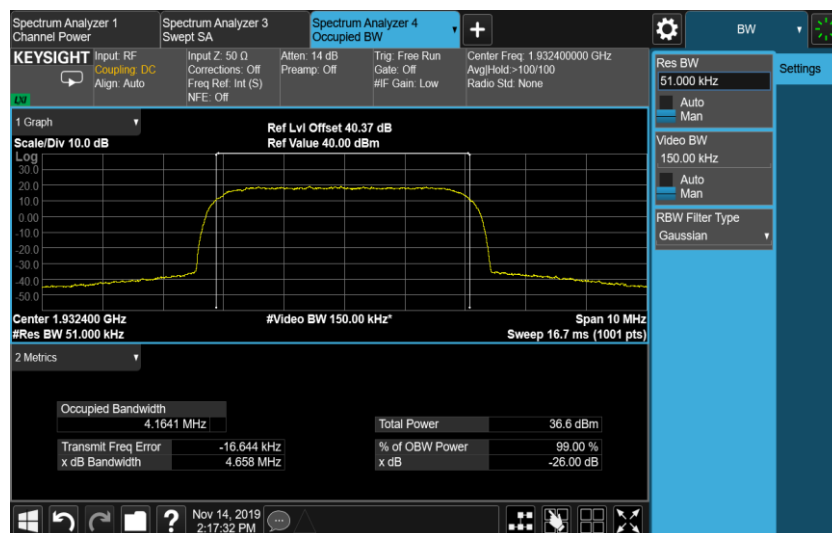
-26dBc Occupied Bandwidth

Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/5.0MHz	4.658	4.655	4.662
16QAM/5.0MHz	4.665	4.662	4.660
64QAM/5.0MHz	4.653	4.652	4.652

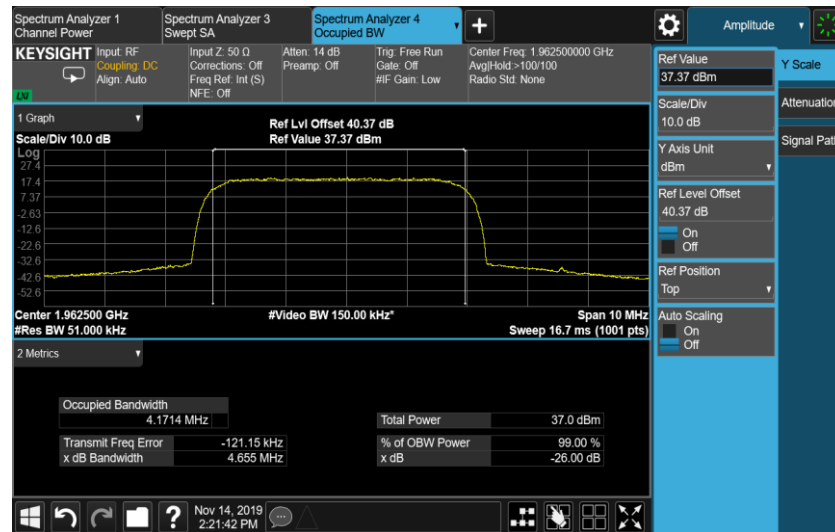
99% Occupied Bandwidth

Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position B
QPSK/5.0MHz	4.1641	4.1714	4.1601
16QAM/5.0MHz	4.1735	4.1780	4.1760
64QAM/5.0MHz	4.1753	4.1822	4.1905

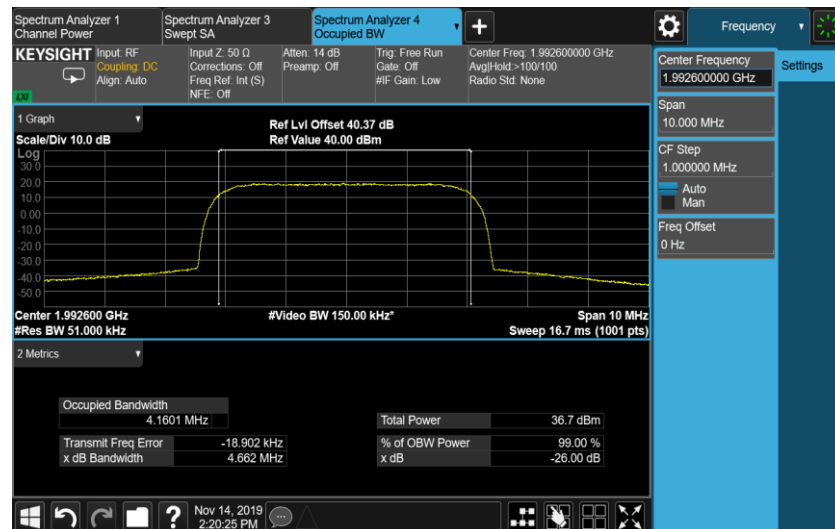
Port A, QPSK/5.0MHz Channel Position B



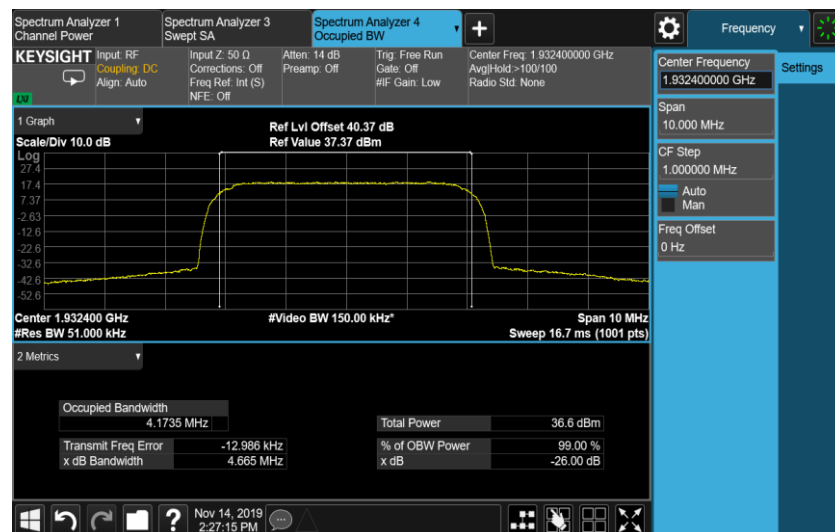
Port A, QPSK/5.0MHz Channel Position M



Port A, QPSK/5.0MHz Channel Position T



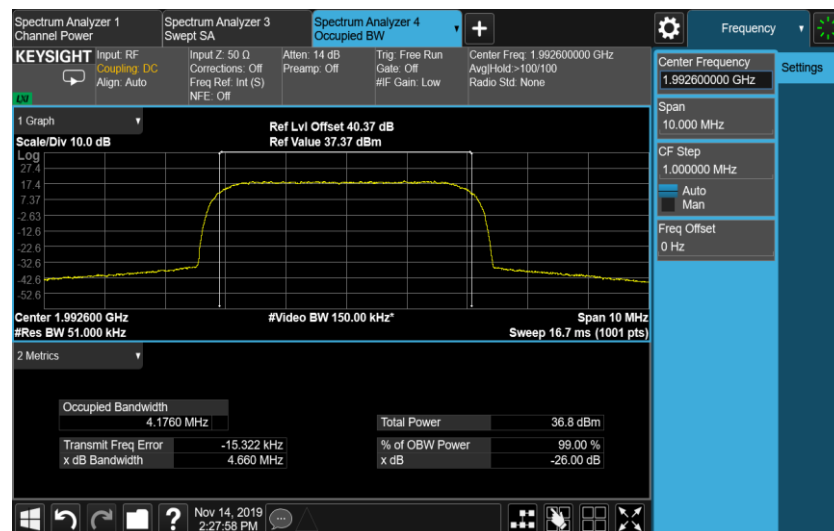
Port A, 16QAM/5.0MHz Channel Position B



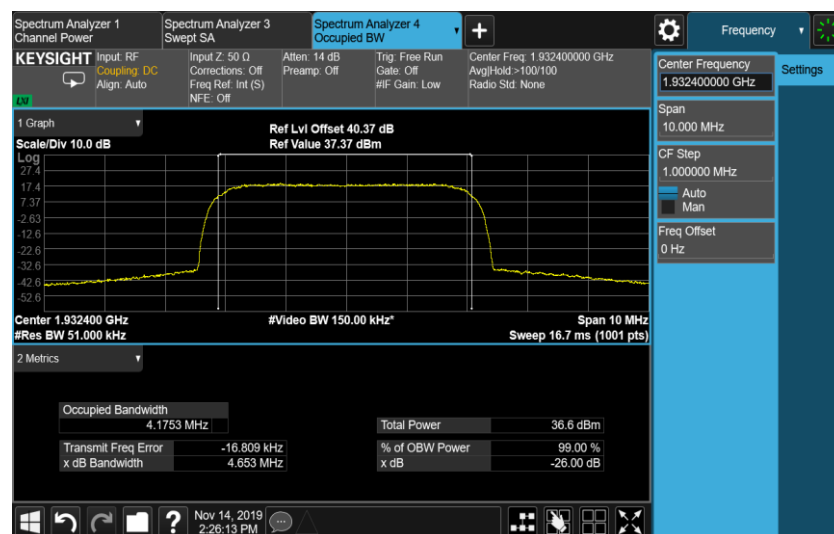
Port A, 16QAM/5.0MHz Channel Position M



Port A, 16QAM/5.0MHz Channel Position T



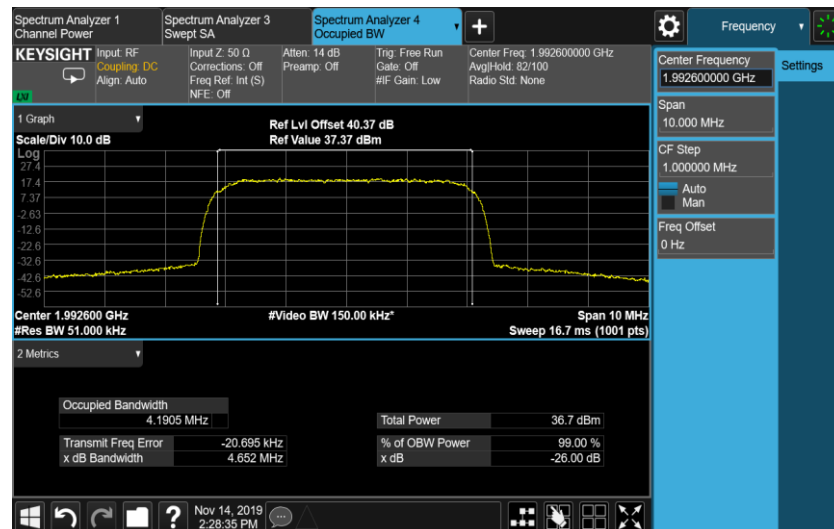
Port A, 64QAM/5.0MHz Channel Position B



Port A, 64QAM/5.0MHz Channel Position M



Port A, 64QAM/5.0MHz Channel Position T



Configuration LTE-MIMO-1C

-26dBc Occupied Bandwidth

Modulation/ Bandwidth	Occupied Bandwidth (MHz)		
	Channel position B	Channel position M	Channel position T
QPSK/ 1.4MHz	1.231	1.233	1.227
QPSK/ 3.0MHz	2.856	2.861	2.853
QPSK/ 5.0MHz	4.728	4.732	4.722
QPSK/ 10.0MHz	9.381	9.344	9.356
QPSK/ 15.0MHz	14.00	14.02	14.01
QPSK/ 20.0MHz	18.59	18.58	18.56

-26dBc Occupied Bandwidth

Bandwidth	Occupied Bandwidth (MHz)		
	Modulation 16QAM/ Channel position M	Modulation 64QAM/ Channel position M	Modulation 256QAM/ Channel position M
1.4MHz	1.212	1.234	1.234
3.0MHz	2.851	2.850	2.849
5.0MHz	4.669	4.720	4.722
10.0MHz	9.387	9.355	9.408
15.0MHz	14.01	13.94	13.99
20.0MHz	18.55	18.61	18.56