



TEST REPORT

No.I18Z60287-WMD01

for

Ericsson AB Radio 4426 B66 KRC 161 472/3

Remote Radio Unit

FCC ID: TA8AKRC161472-3

In accordance with FCC CFR 47 Part 27

Issued Date: 2018-04-02



Note:

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Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I18Z60287-WMD01	Rev.0	1 st edition	2018-04-02

CONTENTS

1. TEST LABORATORY	4
1.1. TESTING LOCATION	4
1.2. PROJECT DATA	4
1.3. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT).....	6
3.1. ABOUT EUT	6
3.2. GENERAL DESCRIPTION	7
3.3. CONFIGURATION DESCRIPTION	8
4. REFERENCE DOCUMENTS.....	15
4.1. REFERENCE DOCUMENTS FOR TESTING	15
5. TEST SETUP	16
6. LABORATORY ENVIRONMENT	17
7. SUMMARY OF TEST RESULTS	18
8. TEST EQUIPMENT UTILIZED	19
9. MEASUREMENT UNCERTAINTY	19
ANNEX A: MEASUREMENT RESULTS.....	20
A.1 MAXIMUM OUTPUT POWER AND PEAK-TO-AVERAGE POWER RATIO	20
A.2 OCCUPIED BANDWIDTH	48
A.3 SPURIOUS EMISSIONS AT BAND EDGE	68
A.4 CONDUCTED SPURIOUS EMISSION.....	129
A.5 RADIATED SPURIOUS EMISSION	248
A.6 FREQUENCY STABILITY	255
ANNEX B: ACCREDITATION CERTIFICATE.....	259

1. Test Laboratory

1.1. Testing Location

Location 1:CTTL(Kangding Road)

Address: No. 18, Kangding Road, Yizhuang, Beijing,
P. R. China 100176

Location 2:CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China100191

1.2. Project data

Testing Start Date: 2018-03-02

Testing End Date: 2018-04-02

1.3. Signature



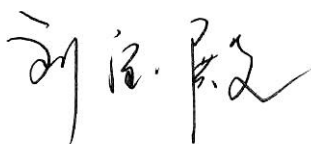
Shen Yi

(Prepared this test report)



Zhou Yu

(Reviewed this test report)



Liu Baodian

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Ericsson (China) Communications Company Ltd.
Address /Post: Ericsson Tower, Lize East Street, Chaoyang District, Beijing 100102,
P.R.China
Contact: Jieying Zhu
Email: jieying.zhu@ericsson.com
Telephone: +86 13911554808

2.2. Manufacturer Information

Company Name: Ericsson AB
Address /Post: Isafjordsgatan 10, 164 80 Stockholm
Sweden
Contact: /
Email: /
Telephone: /

3. Equipment Under Test (EUT)

3.1. About EUT

Description	Remote Radio Unit
Product Name	Radio 4426 B66
Product Number	KRC 161 472/3
FCC ID	TA8AKRC161472-3
Antenna	N/A
Output power	Maximum 47.78dBm (60W) per port
Power source	-48V DC
Serial Number	D827093747
Hardware Version	R1B
Software Version	CXP9017316/7 R70JB14
Frequency range	Rx: 1710-1780 MHz, Tx: 2110-2200 MHz
Supported TX/RX configuration	4 TX / 4 RX
Maximum RF bandwidth (IBW)	WCDMA SR: 45MHz LTE SR: 70MHz valid for LTE BW $\geq$ 5 MHz LTE+WCDMA Mix Mode: 70MHz valid for LTE BW $\geq$ 5 MHz NB+WCDMA: 70MHz NB+LTE: 70MHz valid for LTE BW $\geq$ 5 MHz NB+WCDMA+LTE: 70MHz valid for LTE BW $\geq$ 5 MHz
Total number of supported carriers per port	6DL/6UL
Supported modulations	WCDMA: QPSK, 16QAM, 64QAM LTE: QPSK, 16QAM, 64QAM, 256QAM NB-IoT: QPSK
Date of receipt	2018-03-02

3.2. General Description

The Equipment Under Test (EUT) is an Ericsson Remote Radio Unit working in the wireless communications services 2100MHz band which provides communication connections to 2100MHz network in WCDMA / LTE / NB-IoT modes and MSR modes. The Radio 4426 B66 KRC 161 472/3 operates from a -48V DC supply.

The EUT includes 4 TX/RX ports and it can be configured to transmit in MIMO mode for WCDMA or LTE carriers, and MIMO mode for WCDMA or LTE 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	2112.4	2132.4	2152.6
WCDMA-2C	2 Carriers	-	2112.4 + 2152.6	-
WCDMA-1C-BE	1 Carrier	2112.4	N/A	2152.6
WCDMA-2C-BE	2 Carriers	2112.4 + 2117.4	N/A	2147.6 + 2152.6
WCDMA-3C	3 Carriers	-	2112.4 + 2117.4 + 2152.6	-
WCDMA-6C	6 Carriers	-	2112.4 + 2117.4 + 2122.4 + 2142.6 + 2147.6 + 2152.6	-
WCDMA-MIMO-1C	1 Carrier	2112.4	2132.4	2152.6
WCDMA-MIMO-2C	2 Carriers	-	2112.4 + 2152.6	-
WCDMA-MIMO-3C	3 Carriers	-	2112.4 + 2117.4 + 2152.6	-
WCDMA-MIMO-6C	6 Carriers	-	2112.4 + 2117.4 + 2122.4 + 2142.6 + 2147.6 + 2152.6	-

LTE

Configuration	Carrier	Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
LTE-MIMO-1C	1 Carrier	5MHz	2112.5	2155.0	2197.5
		10MHz	2115.0	2155.0	2195.0
		15MHz	2117.5	2155.0	2192.5
		20MHz	2120.0	2155.0	2190.0
LTE-MIMO-2C	2 Carriers	5MHz	2112.5 + 2177.5	2122.5 + 2187.5	2132.5 + 2197.5
		10MHz	2115 + 2175	2125 + 2185	2135 + 2195
		15MHz	2117.5 + 2172.5	2127.5 + 2182.5	2137.5 + 2192.5
		20MHz	2120 + 2170	2130 + 2180	2140 + 2190
LTE-MIMO-3C	3 Carriers	5MHz	2112.5 + 2117.5 + 2177.5	2122.5 + 2127.5 + 2187.5	2132.5 + 2137.5 + 2197.5
		10MHz	2115 + 2125 + 2175	2125 + 2135 + 2185	2135 + 2145 + 2195
		15MHz	2117.5 + 2132.5 + 2172.5	2127.5 + 2142.5 + 2182.5	2137.5 + 2152.5 + 2192.5
		20MHz	2120 + 2140 + 2170	2130 + 2150 + 2180	2140 + 2160 + 2190
LTE-MIMO-4C	4 Carriers	15MHz	2117.5 + 2132.5 + 2157.5 + 2172.5	2127.5 + 2142.5 + 2167.5 + 2182.5	2137.5 + 2152.5 + 2177.5 + 2192.5
LTE-MIMO-6C	6 Carriers	5MHz	2112.5 + 2117.5 + 2122.5 + 2167.5 + 2172.5 + 2177.5	2122.5 + 2127.5 + 2132.5 + 2177.5 + 2182.5 + 2187.5	2132.5 + 2137.5 + 2142.5 + 2187.5 + 2192.5 + 2197.5
		10MHz	2115 + 2125 + 2135 + 2155 + 2165 + 2175	2125 + 2135 + 2145 + 2165 + 2175 + 2185	2135 + 2145 + 2155 + 2175 + 2185 + 2195
LTE-MIMO-2C-BE	2 Carriers	5MHz	2112.5 + 2117.5	N/A	2192.5 + 2197.5
		10MHz	2115 + 2125	N/A	2185 + 2195
		15MHz	2117.5 + 2132.5	N/A	2177.5 + 2192.5
		20MHz	2120 + 2140	N/A	2170 + 2190

NB-IoT

Configuration	Carrier	Carrier Bandwidth (MHz)	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT-InBand-1C	1 Carrier	5MHz	2112.5	2155.0	2197.5
		10MHz	2115.0	2155.0	2195.0
		15MHz	2117.5	2155.0	2192.5
		20MHz	2120.0	2155.0	2190.0

WCDMA+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
WCDMA+LTE-MI MO-MC-1	1W+1L	5MHz	(W)2112.4 + (L)2177.5	(W)2122.4 + (L)2187.5	(W)2132.4 + (L)2197.5
		10MHz	(W)2112.4 + (L)2175	(W)2122.4 + (L)2185	(W)2132.4 + (L)2195
		15MHz	(W)2112.4 + (L)2172.5	(W)2122.4 + (L)2182.5	(W)2132.4 + (L)2192.5
		20MHz	(W)2112.4 + (L)2170	(W)2122.4 + (L)2180	(W)2132.4 + (L)2190
WCDMA+LTE-MI MO-MC-2	2W+1L	5MHz	(W)2112.4 + 2117.4 + (L)2177.5	(W)2122.4 + 2127.4 + (L)2187.5	(W)2132.4 + 2137.4 + (L)2197.5
		10MHz	(W)2112.4 + 2117.4 + (L)2175	(W)2122.4 + 2127.4 + (L)2185	(W)2132.4 + 2137.4 + (L)2195
		15MHz	(W)2112.4 + 2117.4 + (L)2172.5	(W)2122.4 + 2127.4 + (L)2182.5	(W)2132.4 + 2137.4 + (L)2192.5
		20MHz	(W)2112.4 + 2117.4 + (L)2170	(W)2122.4 + 2127.4 + (L)2180	(W)2132.4 + 2137.4 + (L)2190
WCDMA+LTE-MI MO-MC-3	3W+3L	5MHz	(W)2112.4 + 2117.4 + 2122.4 + (L)2167.5 + 2172.5 + 2177.5	(W)2122.4 + 2127.4 + 2132.4 + (L)2177.5 + 2182.5 + 2187.5	(W)2132.4+2137.4+2142. 4+(L)2187.5+2192.5+219 7.5
		10MHz	(W)2112.4 + 2117.4 + 2122.4 + (L)2155 + 2165 + 2175	(W)2122.4 + 2127.4 + 2132.4 + (L)2165 + 2175 + 2185	(W)2132.4+2137.4+2142. 4+(L)2175+2185+2195
		15MHz	(W)2112.4 + 2117.4 + 2122.4 + (L)2142.5 + 2157.5 + 2172.5	(W)2122.4 + 2127.4 + 2132.4 + (L)2152.5 + 2167.5 + 2182.5	(W)2132.4+2137.4+2142. 4+(L)2162.5+2177.5+219 2.5
	3W+2L	20MHz	(W)2112.4 + 2117.4 + 2122.4 + (L) + 2150 + 2170	(W)2122.4 + 2127.4 + 2132.4 + (L) + 2160 + 2180	(W)2132.4+2137.4+2142. 4+(L)2170+2190
	WCDMA+LTE-MI MO-MC-1-BE	1W+1L	5MHz	(W)2112.4+(L)2117.5	N/A
10MHz			(W)2112.4 + (L)2120	N/A	N/A
15MHz			(W)2112.4 + (L)2122.5	N/A	N/A
20MHz			(W)2112.4 + (L)2125	N/A	N/A
WCDMA+LTE-MI MO-MC-2-BE	2W+1L	5MHz	(W)2112.4 + 2117.4+(L)2122.5	N/A	N/A
		10MHz	(W)2112.4 + 2117.4+(L)2125	N/A	N/A
		15MHz	(W)2112.4 + 2117.4+(L)2127.5	N/A	N/A
		20MHz	(W)2112.4 + 2117.4+(L)2130	N/A	N/A



NB-IoT+WCDMA

Configuration	Carrier	Carrier Frequency Configuration (MHz)		
		Bottom	Middle	Top
NB-IoT+WCDMA-MIMO-MC-1	1NB+1W	(W)2112.4 + (NB)2179.8	(W)2122.4 + (NB)2189.8	(W)2132.4 + (NB)2199.8
NB-IoT+WCDMA-MIMO-MC-2	1NB+2W	(W)2112.4+2117.4 + (NB)2179.8	(W)2122.4+2127.4+(NB)218 9.8	(W)2132.4+2137.4 + (NB)2199.8
NB-IoT+WCDMA-MIMO-MC-3	1NB+5W	(W)2112.4+2117.4+2122.4+ 2127.4+2132.4 + (NB)2179.8	(W)2122.4+2127.4+2132.4+ 2137.4+2142.4+(NB)2189.8	(W)2132.4+2137.4+2142.4+ 2147.4+2152.4 + (NB)2199.8
NB-IoT+WCDMA-MIMO-MC-1-BE	1NB+1W	(NB)2110.3 + (W)2112.8	N/A	N/A
NB-IoT+WCDMA-MIMO-MC-2-BE	1NB+2W	(NB)2110.3 + (W)2112.8+2117.8	N/A	N/A

NB-IoT+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT+LTE-MIM O-MC-1	1NB+1L	5MHz	(NB)2110.3 + (L)2177.5	(NB)2120.2 + (L)2187.5	(NB)2130.2 + (L)2197.5
		10MHz	(NB)2110.3 + (L)2175	(NB)2120.2 + (L)2185	(NB)2130.2 + (L)2195
		15MHz	(NB)2110.3 + (L)2172.5	(NB)2120.2 + (L)2182.5	(NB)2130.2 + (L)2192.5
		20MHz	(NB)2110.3 + (L)2170	(NB)2120.2 + (L)2180	(NB)2130.2 + (L)2190
NB-IoT+LTE-MIM O-MC-2	1NB+2L	5MHz	(NB)2110.3 + (L)2172.5 + 2177.5	(NB)2120.2 + (L)2182.5 + 2187.5	(NB)2130.2 + (L)2192.5 + 2197.5
		10MHz	(NB)2110.3 + (L)2165 + 2175	(NB)2120.2 + (L)2175 + 2185	(NB)2130.2 + (L)2185 + 2195
		15MHz	(NB)2110.3 + (L)2157.5 + 2172.5	(NB)2120.2 + (L)2167.5 + 2182.5	(NB)2130.2 + (L)2177.5 + 2192.5
		20MHz	(NB)2110.3 + (L)2150 + 2170	(NB)2120.2 + (L)2160 + 2180	(NB)2130.2 + (L)2170 + 2190
NB-IoT+LTE-MIM O-MC-3	1NB+5L	5MHz	(NB)2110.3 + (L)2157.5 + 2162.5 + 2167.5 + 2172.5 + 2177.5	(NB)2120.2 + (L)2167.5 + 2172.5 + 2177.5 + 2182.5 + 2187.5	(NB)2130.2 + (L)2177.5 + 2182.5 + 2187.5 + 2192.5 + 2197.5
		10MHz	(NB)2110.3 + (L)2135 + 2145 + 2155 + 2165 + 2175	(NB)2120.2 + (L)2145 + 2155 + 2165 + 2175 + 2185	(NB)2130.2 + (L)2155 + 2165 + 2175 + 2185 + 2195
	1NB+4L	15MHz	(NB)2110.3 + (L)2127.5 + 2142.5 + 2157.5 + 2172.5	(NB)2120.2 + (L)2137.5 + 2152.5 + 2167.5 + 2182.5	(NB)2130.2 + (L)2147.5 + 2162.5 + 2177.5 + 2192.5
	1NB+3L	20MHz	(NB)2110.3 + (L)2130 + 2150 + 2170	(NB)2120.2 + (L) + 2140 + 2160 + 2180	(NB)2130.2 + (L) + 2150 + 2170 + 2190
NB-IoT+LTE-MIM O-MC-1-BE	1NB+1L	5MHz	(NB)2110.3 + (L)2113	N/A	(L)2197.1 + (NB)2199.8
		10MHz	(NB)2110.3 + (L)2115.5	N/A	(L)2194.6 + (NB)2199.8
		15MHz	(NB)2110.3 + (L)2118	N/A	(L)2192.1 + (NB)2199.8
		20MHz	(NB)2110.3 + (L)2120.5	N/A	(L)2189.6 + (NB)2199.8
NB-IoT+LTE-MIM O-MC-2-BE	1NB+2L	5MHz	(NB)2110.3 + (L)2113+2118	N/A	(L)2192.1+2197.1 + (NB)2199.8
		10MHz	(NB)2110.3 + (L)2115.5+2125.5	N/A	(L)2184.6+2194.6 + (NB)2199.8
		15MHz	(NB)2110.3 + (L)2118+2133	N/A	(L)2177.1+2192.1 + (NB)2199.8
		20MHz	(NB)2110.3 + (L)2120.5+2140.5	N/A	(L)2169.6+2189.6 + (NB)2199.8

NB-IoT+WCDMA+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT+WCDMA+ LTE-MIMO-MC-1	1NB+1W +1L	5MHz	(NB)2110.3 + (W)2145 + (L)2177.5	(NB)2120.2 + (W)2152.6 + (L)2187.5	(NB)2130.2 + (W)2162.6 + (L)2197.5
		10MHz	(NB)2110.3 + (W)2145 + (L)2175	(NB)2120.2 + (W)2152.6 + (L)2185	(NB)2130.2 + (W)2162.6 + (L)2195
		15MHz	(NB)2110.3 + (W)2145 + (L)2172.5	(NB)2120.2 + (W)2152.6 + (L)2182.5	(NB)2130.2 + (W)2162.6 + (L)2192.5
		20MHz	(NB)2110.3 + (W)2145 + (L)2170	(NB)2120.2 + (W)2152.6 + (L)2180	(NB)2130.2 + (W)2162.6 + (L)2190
NB-IoT+WCDMA+ LTE-MIMO-MC-2	1NB+2W +1L	5MHz	(NB)2110.3 + (W)2142.6 + 2147.6 + (L)2177.5	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2177.5	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2197.5
		10MHz	(NB)2110.3 + (W)2142.6 + 2147.6 + (L)2175	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2175	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2195
		15MHz	(NB)2110.3 + (W)2142.6 + 2147.6 + (L)2172.5	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2172.5	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2192.5
		20MHz	(NB)2110.3 + (W)2142.6 + 2147.6 + (L)2170	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2170	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2190
NB-IoT+WCDMA+ LTE-MIMO-MC-3	1NB+2W +3L	5MHz	(NB)2110.3 + (W)2137.6 + 2142.6 + (L)2147.5 + 2152.5 + 2177.5	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2157.5 + 2162.5 + 2187.5	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2167.5 + 2172.5 + 2197.5
		10MHz	(NB)2110.3 + (W)2137.6 + 2142.6 + (L)2150 + 2160 + 2175	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2160 + 2170 + 2185	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2170 + 2180 + 2195
		15MHz	(NB)2110.3 + (W)2137.6 + 2142.6 + (L)2152.5 + 2167.5 + 2172.5	(NB)2120.2 + (W)2147.6 + 2152.6 + (L)2162.5 + 2177.5 + 2182.5	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2172.5 + 2187.5 + 2192.5
	1NB+1W +3L	20MHz	(NB)2110.3 + (W)2113 + (L)2130 + 2150 + 2170	(NB)2120.2 + (W)2123 + (L)2140 + 2160 + 2180	(NB)2130.2 + (W)2157.6 + 2162.6 + (L)2175 + 2195 + 2190
NB-IoT+WCDMA+ LTE-MIMO-MC-1-B E	1NB+1W +1L	5MHz	(NB)2110.3 + (W)2113 + (L)2118	N/A	N/A
		10MHz	(NB)2110.3 + (W)2113 + (L)2120.5	N/A	N/A
		15MHz	(NB)2110.3 + (W)2113 + (L)2123	N/A	N/A
		20MHz	(NB)2110.3 + (W)2113 + (L)2125.5	N/A	N/A



NB-IoT+WCDMA+LTE

Configuration	Carrier	LTE Carrier Bandwidth	Carrier Frequency Configuration (MHz)		
			Bottom	Middle	Top
NB-IoT+WCDMA +LTE-MIMO-MC- 2-BE	1NB+2 W+1L	5MHz	(NB)2110.3 + (W)2113 + 2118 + (L)2123	N/A	N/A
		10MHz	(NB)2110.3 + (W)2113 + 2118 + (L)2125.5	N/A	N/A
		15MHz	(NB)2110.3 + (W)2113 + 2118 + (L)2128	N/A	N/A
		20MHz	(NB)2110.3 + (W)2113 + 2118 + (L)2130.5	N/A	N/A

N/A – Not Applicable

4. Reference Documents

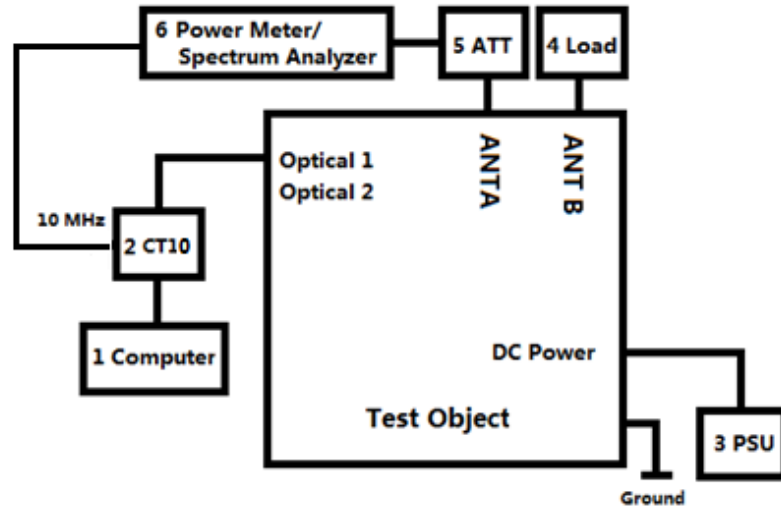
4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-17 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	10-1-17 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	v03
KDB 662911 D01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band	v02r01

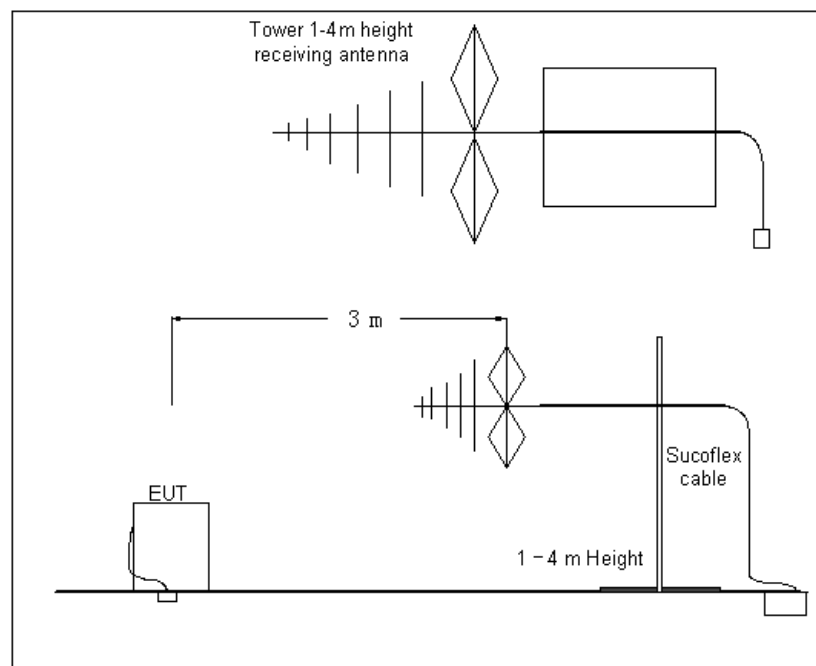
5. TEST SETUP

Test Setup, Conducted Measurement:



No.	Auxilliary Equipment	Model Type	Version
1	Computer	HP EliteBook 8540w	-
2	CT10	LPC 102 487/1	R1C
3	Power supply unit	PCR2000M	-
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	Verdict
1	Maximum Output Power and Peak-to-Average Power Ratio	27.50(d)	Pass
2	Equivalent Isotropically Radiated Power (EIRP)	-	N/A ¹
3	Occupied Bandwidth	27.53(h), 2.1049	Pass
4	Spurious Emissions at Band Edge	27.53(h)	Pass
5	Conducted Spurious Emission	27.53(h)	Pass
6	Radiated Spurious Emission	27.53(h)	Pass
7	Frequency Stability	27.54	Pass
8	Receiver Spurious Emission	-	N/A

N/A¹ - Not Applicable, due to no integrated antenna

N/A – Not Applicable

8. Test Equipment Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE
1	AC Power Supply	PCR2000M	PJ000583	Kikusui	2019-02-24
2	Load	TF150	11081907, 090323432	Shanghai Huaxiang	-
3	40dB Attenuator	66-40-33	CD4019	Aeroflex / Weinschel	-
4	40dB Attenuator	TSG150R-4-40N11	1511040001	Nanjing Jiexi Technologies	-
5	Spectrum Analyzer	N9030	MY54490239	Keysight	2018-08-02
6	Power Sensor	NRP-Z91	103104	Rohde & Schwarz	2019-01-18
7	Power Sensor	NRP-Z21	102432	Rohde & Schwarz	2018-08-04
8	Power Meter	NRP2	105423-GL	Rohde & Schwarz	2018-08-15
9	EMI Antenna	3115	00167250	ETS-LINDGREN	2018-11-30
10	EMI Antenna	3116	2661	ETS-LINDGREN	2020-07-27
11	EMI Antenna	VULB 9163	9163-514	SCHWARZBECK	2021-01-03
12	Test Receiver	ESU26	100376	Rohde & Schwarz	2018-11-27
13	Climate Chamber	GPS-4	0010-003512	ESPEC	2018-05-23
14	Signal Analyzer	FSW26	104002	Rohde & Schwarz	2018-04-11

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 27, Clause 27.50(d)

A.1.2 Method of Measurements

During the process of testing, the EUT was configured to transmit on maximum power and proper modulation. The transmitter power shall be measured in terms of a root-mean-square (RMS) average value. 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 47.78dBm 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	48.21	41.03	7.24	48.20	41.10	7.22	48.27	41.09	7.22
B	QPSK	48.11	41.00	7.24	48.15	41.09	7.21	48.25	41.15	7.22
C	QPSK	48.25	41.11	7.24	48.21	41.05	7.22	48.32	41.12	7.24
D	QPSK	48.02	41.06	7.23	48.02	40.97	7.22	47.98	41.06	7.22

Configuration WCDMA-2C

Maximum Output Power 47.78dBm 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)
C	QPSK	-	-	-	48.20	-	-	-	-	-

Configuration WCDMA-3C

Maximum Output Power 47.78dBm 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)
C	QPSK	-	-	-	48.18	-	-	-	-	-

Configuration WCDMA-6C

Maximum Output Power 47.78dBm 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)
C	QPSK	-	-	-	48.21	-	-	-	-	-

Configuration WCDMA-MIMO-1C

Maximum Output Power 47.78dBm 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	16QAM	48.24	41.16	7.20	48.13	41.06	7.19	48.26	41.14	7.19
B	16QAM	48.11	41.02	7.21	48.19	41.11	7.19	48.22	41.15	7.19
C	16QAM	48.31	41.15	7.21	48.25	41.12	7.19	48.35	41.15	7.20
D	16QAM	47.98	40.98	7.20	48.02	40.98	7.19	48.02	41.02	7.19
Total		54.18	47.10	-	54.17	47.09	-	54.23	47.14	-

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	64QAM	48.22	41.10	7.20	48.21	41.11	7.18	48.29	41.12	7.20
B	64QAM	48.12	41.06	7.21	48.15	41.08	7.20	48.23	41.12	7.21
C	64QAM	48.34	41.10	7.21	48.27	41.08	7.18	48.38	41.15	7.20
D	64QAM	48.01	40.97	7.21	48.00	40.97	7.19	48.00	40.98	7.20
Total		54.19	47.08	-	54.18	47.08	-	54.25	47.11	-

Configuration WCDMA-MIMO-2C

Maximum Output Power 47.78dBm 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	16QAM	-	-	-	48.13	-	-	-	-	-
B	16QAM	-	-	-	48.10	-	-	-	-	-
C	16QAM	-	-	-	48.24	-	-	-	-	-
D	16QAM	-	-	-	47.89	-	-	-	-	-
Total		-	-	-	54.11	-	-	-	-	-

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	64QAM	-	-	-	48.08	-	-	-	-	-
B	64QAM	-	-	-	48.05	-	-	-	-	-
C	64QAM	-	-	-	48.21	-	-	-	-	-
D	64QAM	-	-	-	47.89	-	-	-	-	-
Total		-	-	-	54.08	-	-	-	-	-

Configuration WCDMA-MIMO-3C

Maximum Output Power 47.78dBm 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	16QAM	-	-	-	48.02	-	-	-	-	-
B	16QAM	-	-	-	48.00	-	-	-	-	-
C	16QAM	-	-	-	48.17	-	-	-	-	-
D	16QAM	-	-	-	47.82	-	-	-	-	-
Total		-	-	-	54.02	-	-	-	-	-

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	64QAM	-	-	-	48.01	-	-	-	-	-
B	64QAM	-	-	-	47.99	-	-	-	-	-
C	64QAM	-	-	-	48.16	-	-	-	-	-
D	64QAM	-	-	-	47.80	-	-	-	-	-
Total		-	-	-	54.01	-	-	-	-	-

Configuration WCDMA-MIMO-6C

Maximum Output Power 47.78dBm 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	16QAM	-	-	-	48.08	-	-	-	-	-
B	16QAM	-	-	-	48.06	-	-	-	-	-
C	16QAM	-	-	-	48.24	-	-	-	-	-
D	16QAM	-	-	-	47.85	-	-	-	-	-
Total		-	-	-	54.08	-	-	-	-	-

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	64QAM	-	-	-	47.98	-	-	-	-	-
B	64QAM	-	-	-	47.92	-	-	-	-	-
C	64QAM	-	-	-	48.13	-	-	-	-	-
D	64QAM	-	-	-	47.73	-	-	-	-	-
Total		-	-	-	53.96	-	-	-	-	-

Configuration LTE-MIMO-1C

Maximum Output Power 47.78dBm per port

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/5.0	47.80	40.76	7.29	48.15	41.01	7.28	47.88	40.67	7.29
B		47.72	40.64	7.31	48.09	41.01	7.29	47.85	40.74	7.31
C		47.84	40.66	7.30	48.19	40.99	7.28	47.95	40.57	7.31
D		47.72	40.61	7.29	48.02	40.91	7.28	47.75	40.69	7.29
Total		53.79	46.69	-	54.13	47.00	-	53.88	46.69	-

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	16QAM/5.0	-	-	-	48.17	41.03	7.28	-	-	-
B		-	-	-	48.14	40.99	7.29	-	-	-
C		-	-	-	48.29	40.97	7.28	-	-	-
D		-	-	-	47.95	40.89	7.27	-	-	-
Total		-	-	-	54.16	46.99	-	-	-	-

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	64QAM/5.0	-	-	-	48.19	41.08	7.27	-	-	-
B		-	-	-	48.13	41.01	7.29	-	-	-
C		-	-	-	48.28	41.02	7.28	-	-	-
D		-	-	-	47.95	40.91	7.27	-	-	-
Total		-	-	-	54.16	47.03	-	-	-	-



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	-	-	-	48.19	41.04	7.29	-	-	-
B		-	-	-	48.16	41.02	7.30	-	-	-
C		-	-	-	48.30	40.97	7.28	-	-	-
D		-	-	-	48.00	40.98	7.26	-	-	-
Total		-	-	-	54.18	47.02	-	-	-	-

Maximum Output Power 47.8dBm per port

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	48.01	37.91	7.30	48.23	38.02	7.27	48.00	37.91	7.34
B		48.00	37.76	7.30	48.20	38.02	7.29	47.99	37.82	7.35
C		48.14	37.87	7.28	48.36	38.07	7.28	48.08	37.78	7.28
D		47.82	37.67	7.30	48.00	37.90	7.28	47.84	37.76	7.33
Total		54.01	43.82	-	54.22	44.02	-	54.00	43.83	-

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	16QAM/ 10.0	-	-	-	48.17	38.07	7.27	-	-	-
B		-	-	-	48.11	38.04	7.27	-	-	-
C		-	-	-	48.29	38.10	7.28	-	-	-
D		-	-	-	47.94	37.92	7.26	-	-	-
Total		-	-	-	54.15	44.05	-	-	-	-

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	-	-	-	48.19	38.05	7.28	-	-
B	-		-	-	48.15	38.01	7.27	-	-	-
C	-		-	-	48.30	38.05	7.29	-	-	-
D	-		-	-	47.95	37.87	7.28	-	-	-
Total		-	-	-	54.17	44.02	-	-	-	-

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	-	-	-	48.04	38.05	7.28	-	-	-
B		-	-	-	47.98	38.01	7.28	-	-	-
C		-	-	-	48.12	38.04	7.31	-	-	-
D		-	-	-	47.92	37.92	7.28	-	-	-
Total		-	-	-	54.04	44.03	-	-	-	-

Maximum Output Power 47.78dBm per port

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/ 15.0	48.11	36.27	7.32	48.19	36.30	7.28	48.13	36.31	7.42
B		48.13	36.26	7.32	48.15	36.17	7.30	48.10	36.21	7.41
C		48.25	36.25	7.28	48.32	36.31	7.29	48.23	36.19	7.29
D		48.00	36.10	7.32	48.01	36.11	7.29	47.96	36.09	7.39
Total		54.14	42.24	-	54.19	42.24	-	54.13	42.22	-

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	16QAM/ 15.0	-	-	-	48.22	36.32	7.28	-	-	-
B		-	-	-	48.19	36.22	7.29	-	-	-
C		-	-	-	48.34	36.38	7.29	-	-	-
D		-	-	-	48.01	36.12	7.28	-	-	-
Total		-	-	-	54.21	42.28	-	-	-	-

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	64QAM/ 15.0	-	-	-	48.19	36.33	7.30	-	-	-
B		-	-	-	48.16	36.23	7.29	-	-	-
C		-	-	-	48.32	36.26	7.30	-	-	-
D		-	-	-	47.98	36.10	7.29	-	-	-
Total		-	-	-	54.18	42.25	-	-	-	-



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 /15.0	-	-	-	48.12	36.34	7.29	-	-
B	-		-	-	48.08	36.23	7.29	-	-	-
C	-		-	-	48.25	36.22	7.30	-	-	-
D	-		-	-	47.92	36.11	7.29	-	-	-
Total		-	-	-	54.11	42.25	-	-	-	-

Maximum Output Power 47.78dBm 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	48.17	35.02	7.34	48.19	35.03	7.29	48.13	35.07	7.44
B		48.15	34.97	7.34	48.13	34.92	7.29	48.09	34.89	7.46
C		48.38	35.04	7.33	48.31	35.07	7.30	48.23	34.97	7.44
D		47.96	34.78	7.34	47.94	34.87	7.28	47.92	34.86	7.41
Total		54.19	40.97	-	54.17	40.99	-	54.11	40.97	-

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	-	-	-	48.19	35.02	7.28	-	-	-
B		-	-	-	48.15	34.96	7.29	-	-	-
C		-	-	-	48.30	35.04	7.29	-	-	-
D		-	-	-	47.94	34.87	7.28	-	-	-
Total		-	-	-	54.17	40.99	-	-	-	-

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	64QAM/ 20.0	-	-	-	48.18	35.07	7.29	-	-	-
B		-	-	-	48.13	34.92	7.28	-	-	-
C		-	-	-	48.30	34.97	7.31	-	-	-
D		-	-	-	47.92	34.78	7.29	-	-	-
Total		-	-	-	54.16	40.96	-	-	-	-



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	256QAM /20.0	-	-	-	48.18	35.00	7.29	-	-	-
B		-	-	-	48.12	34.97	7.29	-	-	-
C		-	-	-	48.31	35.02	7.30	-	-	-
D		-	-	-	47.92	34.83	7.29	-	-	-
Total		-	-	-	54.16	40.98	-	-	-	-

Configuration LTE-MIMO-2C

Maximum Output Power 47.78dBm 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	47.74	-	-	47.77	-	-	47.76	-
B	47.62		-	-	47.71	-	-	47.74	-	-
C	47.77		-	-	47.89	-	-	47.77	-	-
D	47.72		-	-	47.65	-	-	47.59	-	-
Total		53.73	-	-	53.78	-	-	53.74	-	-

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	16QAM/5.0	-	-	-	47.78	-	-	-	-	-
B		-	-	-	47.70	-	-	-	-	-
C		-	-	-	47.93	-	-	-	-	-
D		-	-	-	47.63	-	-	-	-	-
Total		-	-	-	53.78	-	-	-	-	-

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	64QAM/5.0	-	-		47.74	-	-	-	-	-
B		-	-	-	47.74	-	-	-	-	-
C		-	-	-	47.98	-	-	-	-	-
D		-	-	-	47.60	-	-	-	-	-
Total		-	-	-	53.79	-	-	-	-	-



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	256QAM /5.0	-	-	-	47.76	-	-	-	-	-
B		-	-	-	47.70	-	-	-	-	-
C		-	-	-	47.96	-	-	-	-	-
D		-	-	-	47.60	-	-	-	-	-
Total		-	-	-	53.78	-	-	-	-	-

Maximum Output Power 47.78dBm 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	47.90	-	-	47.93	-	-	47.85	-	-
B		47.84	-	-	47.86	-	-	47.84	-	-
C		48.04	-	-	48.05	-	-	47.97	-	-
D		47.84	-	-	47.68	-	-	47.70	-	-
Total		53.93	-	-	53.90	-	-	53.86	-	-

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	-	-	-	47.91	-	-	-	-	-
B		-	-	-	47.81	-	-	-	-	-
C		-	-	-	48.03	-	-	-	-	-
D		-	-	-	47.64	-	-	-	-	-
Total		-	-	-	53.87	-	-	-	-	-

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/ 10.0	-	-	-	47.91	-	-	-	-	-
B		-	-	-	47.83	-	-	-	-	-
C		-	-	-	48.04	-	-	-	-	-
D		-	-	-	47.67	-	-	-	-	-
Total		-	-	-	53.89	-	-	-	-	-



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	-	-	-	47.87	-	-	-	-	-
B		-	-	-	47.77	-	-	-	-	-
C		-	-	-	48.04	-	-	-	-	-
D		-	-	-	47.67	-	-	-	-	-
Total		-	-	-	53.86	-	-	-	-	-

Maximum Output Power 47.78dBm per port

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/ 15.0	47.90	-	-	47.92	-	-	47.88	-	-
B		47.84	-	-	47.83	-	-	47.85	-	-
C		47.98	-	-	48.08	-	-	48.02	-	-
D		47.78	-	-	47.67	-	-	47.71	-	-
Total		53.90	-	-	53.90	-	-	53.89	-	-

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	-	-	-	47.92	-	-	-	-	-
B		-	-	-	47.81	-	-	-	-	-
C		-	-	-	48.04	-	-	-	-	-
D		-	-	-	47.67	-	-	-	-	-
Total		-	-	-	53.88	-	-	-	-	-

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	64QAM/ 15.0	-	-	-	47.89	-	-	-	-	-
B		-	-	-	47.79	-	-	-	-	-
C		-	-	-	48.02	-	-	-	-	-
D		-	-	-	47.65	-	-	-	-	-
Total		-	-	-	53.86	-	-	-	-	-



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	-	-	-	47.88	-	-	-	-	-
B		-	-	-	47.78	-	-	-	-	-
C		-	-	-	48.00	-	-	-	-	-
D		-	-	-	47.63	-	-	-	-	-
Total		-	-	-	53.85	-	-	-	-	-

Maximum Output Power 47.78dBm per port

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/ 20.0	47.95	-	-	47.95	-	-	47.92	-	-
B		47.87	-	-	47.87	-	-	47.90	-	-
C		48.02	-	-	48.06	-	-	47.98	-	-
D		47.78	-	-	47.70	-	-	47.67	-	-
Total		53.93	-	-	53.92	-	-	53.89	-	-

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	-	-	-	47.94	-	-	-	-	-
B		-	-	-	47.84	-	-	-	-	-
C		-	-	-	48.05	-	-	-	-	-
D		-	-	-	47.67	-	-	-	-	-
Total		-	-	-	53.90	-	-	-	-	-

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	64QAM/ 20.0	-	-	-	47.88	-	-	-	-	-
B		-	-	-	47.80	-	-	-	-	-
C		-	-	-	48.09	-	-	-	-	-
D		-	-	-	47.70	-	-	-	-	-
Total		-	-	-	53.89	-	-	-	-	-



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	-	-	-	47.87	-	-	-	-	-
B		-	-	-	47.74	-	-	-	-	-
C		-	-	-	47.99	-	-	-	-	-
D		-	-	-	47.68	-	-	-	-	-
Total		-	-	-	53.84	-	-	-	-	-

Configuration LTE-MIMO-3C

Maximum Output Power 47.78dBm per port

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/5.0	47.36	-	-	47.42	-	-	47.38	-	-
B		47.27	-	-	47.31	-	-	47.37	-	-
C		47.48	-	-	47.54	-	-	47.42	-	-
D		47.27	-	-	47.19	-	-	47.20	-	-
Total		53.37	-	-	53.39	-	-	53.36	-	-

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	16QAM/5.0	-	-	-	47.40	-	-	-	-	-
B		-	-	-	47.29	-	-	-	-	-
C		-	-	-	47.52	-	-	-	-	-
D		-	-	-	47.14	-	-	-	-	-
Total		-	-	-	53.36	-	-	-	-	-

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	64QAM/5.0	-	-		47.38	-	-	-	-	-
B		-	-	-	47.25	-	-	-	-	-
C		-	-	-	47.44	-	-	-	-	-
D		-	-	-	47.25	-	-	-	-	-
Total		-	-	-	53.35	-	-	-	-	-



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 /5.0	-	-	-	47.42	-	-	-	-	-
B		-	-	-	47.32	-	-	-	-	-
C		-	-	-	47.48	-	-	-	-	-
D		-	-	-	47.23	-	-	-	-	-
Total		-	-	-	53.38	-	-	-	-	-

Maximum Output Power 47.78dBm per port

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	47.93	-	-	47.91	-	-	47.90	-	-
B		47.84	-	-	47.85	-	-	47.89	-	-
C		47.95	-	-	47.98	-	-	47.93	-	-
D		47.78	-	-	47.71	-	-	47.70	-	-
Total		53.90	-	-	53.88	-	-	53.88	-	-

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	-	-	-	47.88	-	-	-	-	-
B		-	-	-	47.77	-	-	-	-	-
C		-	-	-	47.96	-	-	-	-	-
D		-	-	-	47.69	-	-	-	-	-
Total		-	-	-	53.85	-	-	-	-	-

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	64QAM/ 10.0	-	-	-	47.91	-	-	-	-	-
B		-	-	-	47.84	-	-	-	-	-
C		-	-	-	48.02	-	-	-	-	-
D		-	-	-	47.70	-	-	-	-	-
Total		-	-	-	53.89	-	-	-	-	-



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	-	-	-	47.89	-	-	-	-	-
B		-	-	-	47.82	-	-	-	-	-
C		-	-	-	48.00	-	-	-	-	-
D		-	-	-	47.71	-	-	-	-	-
Total		-	-	-	53.88	-	-	-	-	-

Maximum Output Power 47.78dBm per port

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/ 15.0	47.84	-	-	47.87	-	-	47.85	-	-
B		47.77	-	-	47.76	-	-	47.81	-	-
C		47.91	-	-	47.94	-	-	47.93	-	-
D		47.82	-	-	47.71	-	-	47.75	-	-
Total		53.86	-	-	53.84	-	-	53.86	-	-

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	-	-	-	47.83	-	-	-	-	-
B		-	-	-	47.74	-	-	-	-	-
C		-	-	-	47.88	-	-	-	-	-
D		-	-	-	47.60	-	-	-	-	-
Total		-	-	-	53.78	-	-	-	-	-

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	-	-	-	47.88	-	-	-	-
B	-		-	-	47.78	-	-	-	-	-
C	-		-	-	47.92	-	-	-	-	-
D	-		-	-	47.64	-	-	-	-	-
Total		-	-	-	53.83	-	-	-	-	-



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	256QAM /15.0	-	-	-	47.78	-	-	-	-	-
B		-	-	-	47.65	-	-	-	-	-
C		-	-	-	47.89	-	-	-	-	-
D		-	-	-	47.61	-	-	-	-	-
Total		-	-	-	53.75	-	-	-	-	-

Maximum Output Power 47.78dBm 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	47.91	-	-	47.92	-	-	47.91	-	-
B		47.83	-	-	47.83	-	-	47.89	-	-
C		47.95	-	-	48.01	-	-	47.95	-	-
D		47.80	-	-	47.70	-	-	47.71	-	-
Total		53.89	-	-	53.89	-	-	53.89	-	-

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	-	-	-	47.86	-	-	-	-	-
B		-	-	-	47.77	-	-	-	-	-
C		-	-	-	47.93	-	-	-	-	-
D		-	-	-	47.64	-	-	-	-	-
Total		-	-	-	53.82	-	-	-	-	-

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	-	-	-	47.83	-	-	-	-
B	-		-	-	47.72	-	-	-	-	-
C	-		-	-	47.90	-	-	-	-	-
D	-		-	-	47.63	-	-	-	-	-
Total		-	-	-	53.79	-	-	-	-	-



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	-	-	-	47.79	-	-	-	-	-
B		-	-	-	47.68	-	-	-	-	-
C		-	-	-	47.90	-	-	-	-	-
D		-	-	-	47.66	-	-	-	-	-
Total		-	-	-	53.78	-	-	-	-	-

Configuration LTE-MIMO-6C

Maximum Output Power 47.78dBm per port

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/5.0	47.43	-	-	47.47	-	-	47.42	-	-
B		47.31	-	-	47.35	-	-	47.39	-	-
C		47.57	-	-	47.59	-	-	47.55	-	-
D		47.38	-	-	47.27	-	-	47.29	-	-
Total		53.44	-	-	53.44	-	-	53.43	-	-

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	-	-	-	47.44	-	-	-	-	-
B		-	-	-	47.31	-	-	-	-	-
C		-	-	-	47.52	-	-	-	-	-
D		-	-	-	47.21	-	-	-	-	-
Total		-	-	-	53.39	-	-	-	-	-

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	64QAM/5.0	-	-	-	47.49	-	-	-	-	-
B		-	-	-	47.38	-	-	-	-	-
C		-	-	-	47.64	-	-	-	-	-
D		-	-	-	47.31	-	-	-	-	-
Total		-	-	-	53.48	-	-	-	-	-



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	-	-	-	47.45	-	-	-	-	-
B		-	-	-	47.32	-	-	-	-	-
C		-	-	-	47.51	-	-	-	-	-
D		-	-	-	47.19	-	-	-	-	-
Total		-	-	-	53.39	-	-	-	-	-

Maximum Output Power 47.78dBm per port

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	47.91	-	-	47.91	-	-	47.85	-	-
B		47.81	-	-	47.81	-	-	47.77	-	-
C		47.95	-	-	47.99	-	-	47.88	-	-
D		47.78	-	-	47.73	-	-	47.68	-	-
Total		53.88	-	-	53.88	-	-	53.82	-	-

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	-	-	-	47.82	-	-	-	-	-
B		-	-	-	47.71	-	-	-	-	-
C		-	-	-	47.85	-	-	-	-	-
D		-	-	-	47.70	-	-	-	-	-
Total		-	-	-	53.79	-	-	-	-	-

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	-	-	-	47.81	-	-	-	-	-
B		-	-	-	47.72	-	-	-	-	-
C		-	-	-	47.80	-	-	-	-	-
D		-	-	-	47.66	-	-	-	-	-
Total		-	-	-	53.77	-	-	-	-	-



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	-	-	-	47.83	-	-	-	-	-
B		-	-	-	47.72	-	-	-	-	-
C		-	-	-	47.83	-	-	-	-	-
D		-	-	-	47.71	-	-	-	-	-
Total		-	-	-	53.79	-	-	-	-	-

Configuration LTE-MIMO-4C

Maximum Output Power 47.78dBm per port

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/ 15.0	47.92	-	-	47.85	-	-	47.89	-	-
B		47.84	-	-	47.75	-	-	47.83	-	-
C		47.90	-	-	47.90	-	-	47.88	-	-
D		47.87	-	-	47.72	-	-	47.75	-	-
Total		53.90	-	-	53.83	-	-	53.86	-	-

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	16QAM/ 15.0	-	-	-	47.85	-	-	-	-	-
B		-	-	-	47.76	-	-	-	-	-
C		-	-	-	47.89	-	-	-	-	-
D		-	-	-	47.70	-	-	-	-	-
Total		-	-	-	53.82	-	-	-	-	-

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	64QAM/ 15.0	-	-	-	47.88	-	-	-	-	-
B		-	-	-	47.78	-	-	-	-	-
C		-	-	-	47.92	-	-	-	-	-
D		-	-	-	47.72	-	-	-	-	-
Total		-	-	-	53.85	-	-	-	-	-

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	-	-	-	47.86	-	-	-	-	-
B		-	-	-	47.76	-	-	-	-	-
C		-	-	-	47.92	-	-	-	-	-
D		-	-	-	47.73	-	-	-	-	-
Total		-	-	-	53.84	-	-	-	-	-

Configuration NB-IoT-InBand-1C

Maximum Output Power 47.78dBm 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	47.76	40.71	7.29	48.11	40.97	7.28	47.80	40.73
B	47.65		40.56	7.29	48.03	40.99	7.27	47.71	40.61	7.30
C	47.76		40.68	7.29	48.09	41.02	7.29	47.78	40.58	7.30
D	47.63		40.54	7.29	47.94	40.83	7.27	47.67	40.61	7.29
Total		53.72	46.64	-	54.06	46.97	-	53.76	46.65	-

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	QPSK/10.0	47.97	37.82	7.30	48.10	37.95	7.28	47.87	37.77
B	47.91		37.68	7.31	47.98	37.88	7.28	47.75	37.72	7.34
C	47.94		37.73	7.30	48.14	37.98	7.28	47.87	37.65	7.35
D	47.76		37.67	7.31	47.93	37.84	7.27	47.73	37.66	7.34
Total		53.91	43.75	-	54.06	43.93	-	53.83	43.72	-

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	QPSK/15.0	48.08	36.17	7.32	48.12	36.24	7.29	48.09	36.30
B	48.05		36.11	7.32	48.00	36.13	7.29	47.96	36.12	7.41
C	48.12		36.15	7.31	48.15	36.22	7.31	48.09	36.17	7.43
D	47.93		36.10	7.31	47.94	36.09	7.29	47.92	36.08	7.40
Total		54.07	42.15	-	54.07	42.19	-	54.04	42.19	-

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	48.13	35.01	7.34	48.15	35.01	7.30	48.11	35.01	7.45
B		48.03	34.82	7.33	48.03	34.85	7.29	47.98	34.92	7.44
C		48.19	34.92	7.34	48.17	34.97	7.29	48.10	34.97	7.47
D		47.97	34.81	7.34	47.96	34.78	7.29	47.94	34.85	7.43
Total		54.10	40.91	-	54.10	40.92	-	54.05	40.96	-

Configuration WCDMA+LTE-MIMO-MC-1

1WCDMA QPSK+1LTE QPSK

Maximum Output Power 47.78dBm 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)
C	QPSK/ QPSK 5.0	48.08	-	-	48.20	-	-	48.01	-	-
	QPSK/ QPSK 10	48.23	-	-	48.22	-	-	48.09	-	-
	QPSK/ QPSK 15	48.24	-	-	48.25	-	-	48.17	-	-
	QPSK/ QPSK 20	48.29	-	-	48.06	-	-	47.99	-	-

1WCDMA 16QAM+1LTE QPSK

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	16QAM/ QPSK 5.0	48.14	-	-	48.13	-	-	47.97	-	-
	16QAM/ QPSK 10	48.11	-	-	48.11	-	-	48.15	-	-
	16QAM/ QPSK 15	48.14	-	-	48.09	-	-	48.13	-	-
	16QAM/ QPSK 20	48.13	-	-	48.09	-	-	48.10	-	-
B	16QAM/ QPSK 5.0	48.06	-	-	47.99	-	-	47.95	-	-
	16QAM/ QPSK 10	47.96	-	-	47.98	-	-	48.04	-	-
	16QAM/ QPSK 15	48.01	-	-	47.96	-	-	47.99	-	-
	16QAM/ QPSK 20	47.97	-	-	48.08	-	-	47.98	-	-
C	16QAM/ QPSK 5.0	48.01	-	-	48.01	-	-	47.86	-	-
	16QAM/ QPSK 10	48.03	-	-	48.04	-	-	48.09	-	-
	16QAM/ QPSK 15	48.08	-	-	48.05	-	-	48.07	-	-
	16QAM/ QPSK 20	48.05	-	-	47.88	-	-	47.72	-	-
D	16QAM/ QPSK 5.0	47.93	-	-	47.82	-	-	47.79	-	-
	16QAM/ QPSK 10	47.94	-	-	47.94	-	-	47.97	-	-
	16QAM/ QPSK 15	47.96	-	-	47.92	-	-	47.94	-	-
	16QAM/ QPSK 20	47.91	-	-	47.90	-	-	47.80	-	-

1WCDMA 16QAM+1LTE QPSK

Antenna	WCDMA	Output Power / Peak to Average Ratio (PAR)								
	Mod./	Channel position B			Channel position M			Channel position T		
	LTE Mod. Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
Total	16QAM/ QPSK 5.0	54.06	-	-	54.01	-	-	53.91	-	-
	16QAM/ QPSK 10	54.03	-	-	54.04	-	-	54.08	-	-
	16QAM/ QPSK 15	54.07	-	-	54.26	-	-	54.05	-	-
	16QAM/ QPSK 20	54.04	-	-	54.01	-	-	53.92	-	-

Configuration WCDMA+LTE-MIMO-MC-3

3WCDMA QPSK+3LTE QPSK

Maximum Output Power 47.78dBm per port

Antenna	WCDMA	Output Power / Peak to Average Ratio (PAR)								
	Mod./	Channel position B			Channel position M			Channel position T		
	LTE Mod. Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
C	QPSK/ QPSK 5.0	48.17	-	-	48.13	-	-	48.06	-	-
	QPSK/ QPSK 10.0	48.12	-	-	48.14	-	-	48.16	-	-
	QPSK/ QPSK 15.0	48.25	-	-	48.27	-	-	48.16	-	-

3CDMA 16QAM+3LTE QPSK

Antenna	WCDMA	Output Power / Peak to Average Ratio (PAR)								
	Mod./	Channel position B			Channel position M			Channel position T		
	LTE Mod. 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/ QPSK 5.0	48.10	-	-	48.10	-	-	48.00	-	-
	16QAM/ QPSK 10.0	48.13	-	-	48.10	-	-	48.04	-	-
	16QAM/ QPSK 15.0	48.01	-	-	48.04	-	-	48.04	-	-
B	16QAM/ QPSK 5.0	47.91	-	-	48.02	-	-	47.99	-	-
	16QAM/ QPSK 10.0	48.02	-	-	48.05	-	-	48.03	-	-
	16QAM/ QPSK 15.0	47.82	-	-	47.98	-	-	48.01	-	-
C	16QAM/ QPSK 5.0	48.18	-	-	48.25	-	-	48.10	-	-
	16QAM/ QPSK 10.0	48.21	-	-	48.26	-	-	48.13	-	-
	16QAM/ QPSK 15.0	48.26	-	-	48.24	-	-	48.18	-	-
D	16QAM/ QPSK 5.0	47.98	-	-	47.88	-	-	48.83	-	-
	16QAM/ QPSK 10.0	47.96	-	-	47.87	-	-	47.83	-	-
	16QAM/ QPSK 15.0	47.96	-	-	47.88	-	-	47.90	-	-
Total	16QAM/ QPSK 5.0	54.06	-	-	54.09	-	-	54.27	-	-
	16QAM/ QPSK 10.0	54.10	-	-	54.09	-	-	54.29	-	-
	16QAM/ QPSK 15.0	54.04	-	-	54.06	-	-	54.05	-	-

Configuration WCDMA+LTE-MIMO-MC-3
3WCDMA QPSK+2LTE QPSK
Maximum Output Power 47.78dBm per port

Antenna	WCDMA	Output Power / Peak to Average Ratio (PAR)								
	Mod./	Channel position B			Channel position M			Channel position T		
	LTE Mod.									
	Bandwidth (MHz)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
C	QPSK/ QPSK 20.0	48.18	-	-	48.23	-	-	48.18	-	-

3WCDMA 16QAM+2LTE QPSK

Antenna	WCDMA	Output Power / Peak to Average Ratio (PAR)								
	Mod./	Channel position B			Channel position M			Channel position T		
	LTE Mod.									
	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/ QPSK 20.0	48.22	-	-	48.12	-	-	48.08	-	-
B	16QAM/ QPSK 20.0	48.10	-	-	48.11	-	-	48.07	-	-
C	16QAM/ QPSK 20.0	48.16	-	-	48.26	-	-	48.21	-	-
D	16QAM/ QPSK 20.0	47.92	-	-	47.99	-	-	47.96	-	-
Total		54.12	-	-	54.14	-	-	54.10	-	-

Configuration NB-IoT+WCDMA-MC-1 (1NB+1WCDMA)
Maximum Output Power 47.78dBm per port

Antenna	NB Mod./	Output Power / Peak to Average Ratio (PAR)								
	WCDMA	Channel position B			Channel position M			Channel position T		
	Mod.									
		POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)	POWER (dBm)	POWER (dBm/MHz)	PAR (db)
C	QPSK/ QPSK	47.07	-	-	47.12	-	-	47.05	-	-
	QPSK/ 16QAM	47.06	-	-	47.10	-	-	47.03	-	-

Configuration NB-IoT+WCDMA-MC-3(1NB+5WCDMA)

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ WCDMA 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)
C	QPSK/ QPSK	47.13	-	-	47.11	-	-	47.10	-	-
	QPSK/ 16QAM	47.14	-	-	47.15	-	-	47.12	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB 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)
C	QPSK/ QPSK 5.0	47.61	-	-	47.66	-	-	47.43	-	-
	QPSK/ QPSK 10	47.66	-	-	47.62	-	-	47.44	-	-
	QPSK/ QPSK 15	47.62	-	-	47.58	-	-	47.44	-	-
	QPSK/ QPSK 20	47.70	-	-	47.68	-	-	47.61	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB 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)
C	QPSK/ QPSK 5.0	47.58	-	-	47.63	-	-	47.43	-	-
	QPSK/ QPSK 10.0	48.17	-	-	48.24	-	-	48.15	-	-

Configuration NB-IoT+LTE-MC-3 (1NB+4LTE)

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ LTE Mod.	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	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)
C	QPSK/ QPSK 15.0	48.03	-	-	48.04	-	-	47.99	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ LTE Mod.	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	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)
C	QPSK/ QPSK 20.0	48.05	-	-	48.05	-	-	47.95	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ WCDMA Mod./ LTE Mod.	Output Power / Peak to Average Ratio (PAR)								
	Bandwidth (MHz)	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)
C	QPSK/ 16 QAM/ QPSK 5.0	47.13	-	-	47.15	-	-	46.99	-	-
	QPSK/ 16 QAM/ QPSK 10.0	47.14	-	-	47.16	-	-	47.04	-	-
	QPSK/ 16 QAM/ QPSK 15.0	47.15	-	-	47.17	-	-	47.10	-	-
	QPSK/ 16 QAM/ QPSK 20.0	47.12	-	-	47.11	-	-	47.12	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ 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)
C	QPSK/ 16 QAM/ QPSK 5.0	47.21	-	-	47.25	-	-	47.10	-	-
	QPSK/ 16 QAM/ QPSK 10.0	47.22	-	-	47.21	-	-	47.15	-	-
	QPSK/ 16 QAM/ QPSK 15.0	47.15	-	-	47.12	-	-	47.01	-	-

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

Maximum Output Power 47.78dBm per port

Antenna	NB Mod./ 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)
C	QPSK/ 16 QAM/ QPSK 20.0	47.08	-	-	47.12	-	-	47.09	-	-

NOTE:

The DUT is tested without antenna. ERP/EIRP compliance is addressed at the time of licensing, as required by the responsible FCC Bureau. 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

FCC CFR 47 Part 27, Clause 27.53 (h)

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 Clause 4.2.

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) Set the detection mode to peak, and the trace mode to max hold.
- e) 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

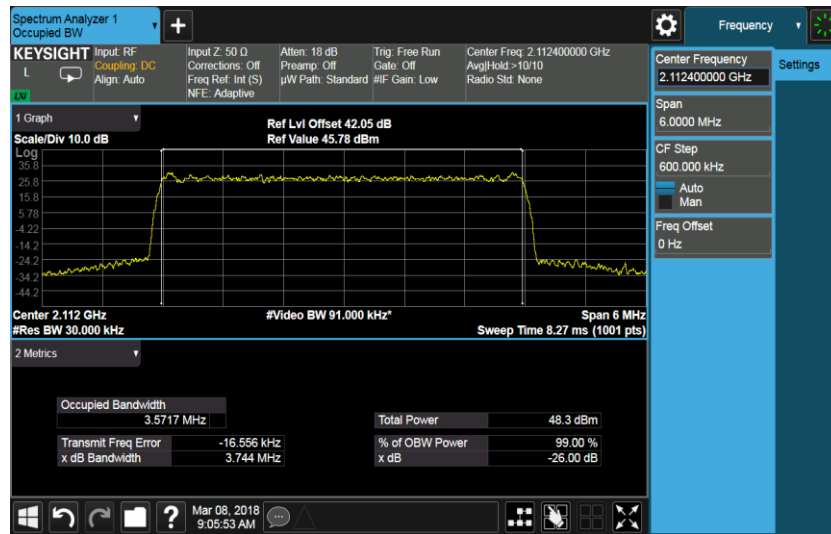
Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/5.0 MHz	4.65	4.64	4.66
	QPSK/3.8 MHz	3.74	3.74	3.75

99% Occupied Bandwidth

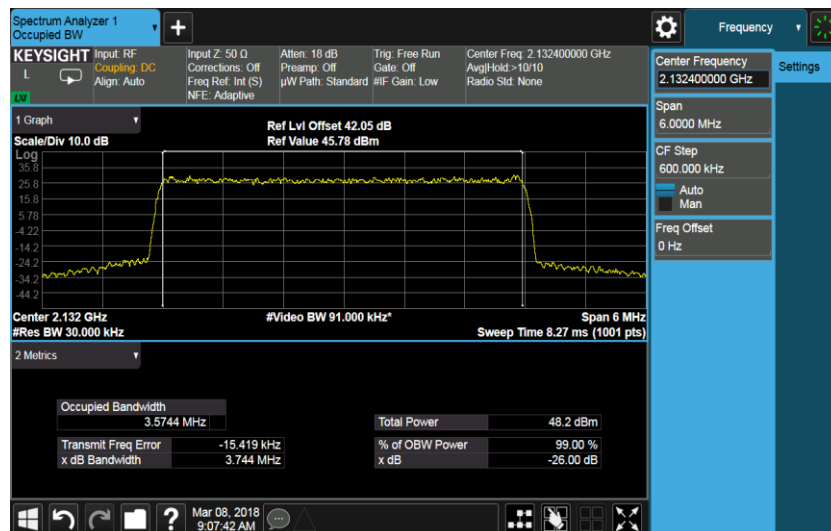
Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/5.0 MHz	4.16	4.16	4.15

	QPSK/3.8 MHz	3.57	3.57	3.57
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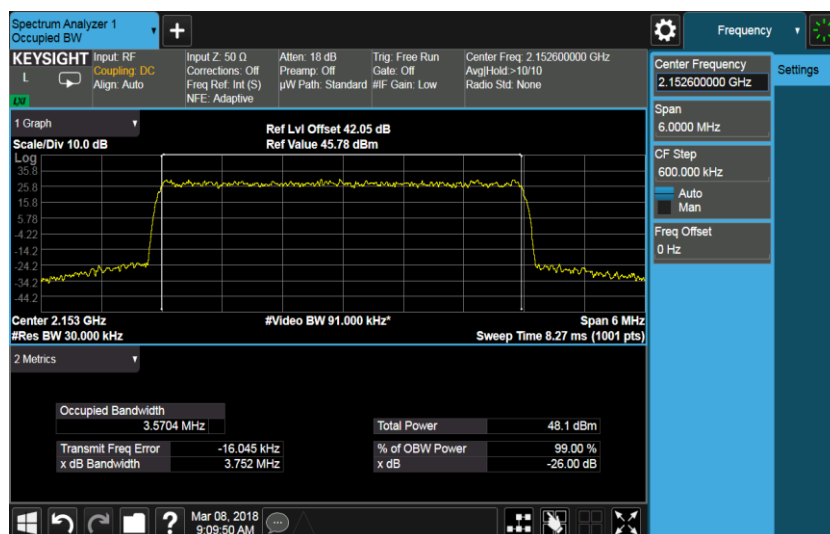
Port C, QPSK/3.8 MHz Channel Position B



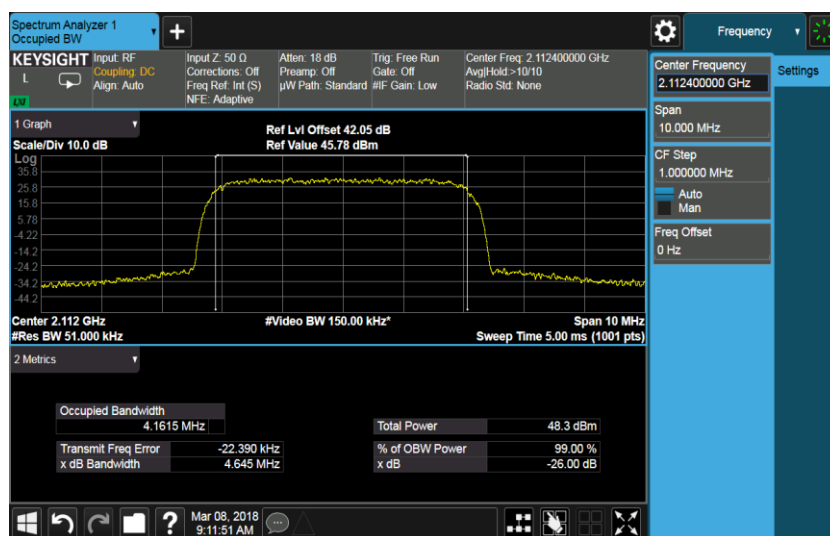
Port C, QPSK/3.8 MHz Channel Position M



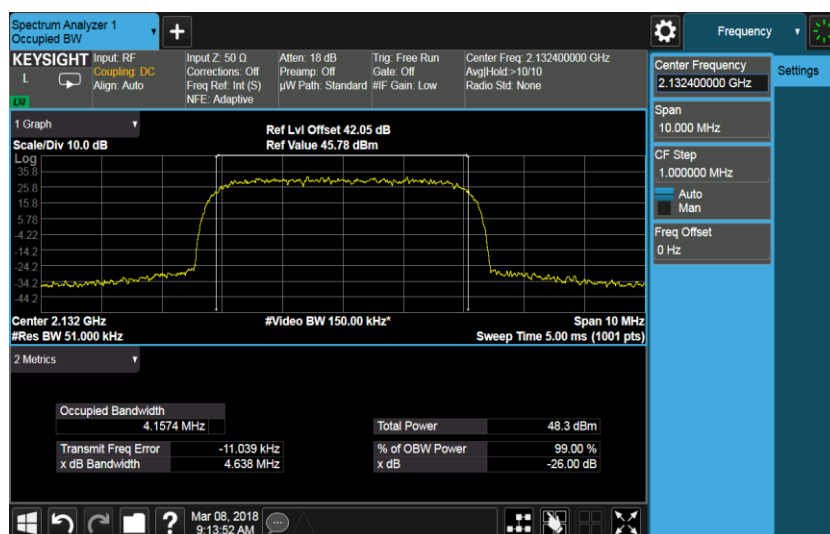
Port C, QPSK/3.8 MHz Channel Position T



Port C, QPSK/5.0 MHz Channel Position B



Port C, QPSK/5.0 MHz Channel Position M



Port C, QPSK/5.0 MHz Channel Position T



Configuration WCDMA-MIMO-1C
-26dBc Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	16QAM/ 5.0 MHz	4.65	4.65	4.65
	64QAM/ 5.0 MHz	4.64	4.63	4.65

99% Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	16QAM/ 5.0 MHz	4.20	4.17	4.18
	64QAM/ 5.0 MHz	4.16	4.17	4.17

Port C, 16QAM/5.0 MHz Channel Position B



Port C, 16QAM/5.0 MHz Channel Position M



Port C, 16QAM/5.0 MHz Channel Position T



Port C, 64QAM/5.0 MHz Channel Position B



Port C, 64QAM/5.0 MHz Channel Position M



Port C, 64QAM/5.0 MHz Channel Position T



Configuration LTE-MIMO-1C -26dBc Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/ 5.0 MHz	4.73	4.70	4.66
	QPSK/ 10.0 MHz	9.35	9.31	9.35
	QPSK/ 15.0 MHz	13.94	13.94	13.97
	QPSK/ 20.0 MHz	18.48	18.53	18.58

-26dBc Occupied Bandwidth

Antenna	Bandwidth	Occupied Bandwidth (MHz)		
		Modulation 16QAM/ Channel Position M	Modulation 64QAM/ Channel Position M	Modulation 256QAM/ Channel Position M
C	5.0 MHz	4.63	4.75	4.67
	10.0 MHz	9.36	9.29	9.30
	15.0 MHz	13.94	13.99	13.89
	20.0 MHz	18.47	18.51	18.51

99% Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/ 5.0 MHz	4.48	4.47	4.48
	QPSK/ 10.0 MHz	8.92	8.93	8.95
	QPSK/ 15.0 MHz	13.40	13.38	13.41
	QPSK/ 20.0 MHz	17.78	17.84	17.87

99% Occupied Bandwidth

Antenna	Bandwidth	Occupied Bandwidth (MHz)		
		Modulation 16QAM/ Channel Position M	Modulation 64QAM/ Channel Position M	Modulation 256QAM/ Channel Position M
C	5.0 MHz	4.47	4.47	4.46
	10.0 MHz	8.94	8.95	8.96
	15.0 MHz	13.41	13.40	13.38
	20.0 MHz	17.82	17.89	17.85

Port C, QPSK 5.0M Channel position B