

## Radio Test Report

**Report No.:** RJBARR-WTW-P201101810

**Test Model:** MT7921K

**Received Date:** 2022/12/26

**Issued Date:** 2022/12/28

**Applicant:** MediaTek Inc.

**Address:** No. 1, Duxing 1st Rd., East District, Hsinchu City 300 Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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Taiwan

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan



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## Table of Contents

Release Control Record .....	3
1 Certificate of Conformity .....	4
2 General Information .....	5
2.1 General Description of EUT .....	5
Appendix - Information of the Testing Laboratories .....	16



### Release Control Record

Issue No.	Description	Date Issued
RJBARR-WTW-P20110181O	Original release	2022/12/28

## 1 Certificate of Conformity

**Product:** 2TX 11ax (WiFi6E) + BT/BLE Combo Card

**Brand:** MediaTek

**Test Model:** MT7921K

**Sample Status:** Engineering sample

**Applicant:** MediaTek Inc.

**Standards:** ARIB STD-T66 (V3.7), MIC notice 88 Appendix 43  
Certification Ordinance Article 2-1-19

RCR STD-33 (V5.4), MIC notice 88 Appendix 44  
Certification Ordinance Article 2-1-19-2

Certification Ordinance Article 2-1-19-3

Measurement was conducted by the temporary test method which TELEC submitted to the Minister for Internal Affairs and Communications based on the Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Article 88, Paragraph 2

This report is issued as a supplementary report. This report shall be used combined together with its original report.

**Prepared by :**

*Cherry Chuo*  
Cherry Chuo / Specialist

**Date:**

2022/12/28

**Approved by :**

*May Chen*  
May Chen / Manager

**Date:**

2022/12/28

## 2 General Information

### 2.1 General Description of EUT

Product	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7921K
Status of EUT	Engineering sample
Nominal Voltage	3.3Vdc from host equipment
Modulation Type	<b>For WLAN:</b> CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz mode 1024QAM for OFDMA in 11ax HE mode <b>For BT-EDR:</b> GFSK, $\pi/4$ -DQPSK, 8DPSK <b>For BT-LE:</b> GFSK
Modulation Technology	<b>For WLAN:</b> DSSS, OFDM, OFDMA <b>For BT-EDR:</b> FHSS <b>For BT-LE:</b> DTS
Transfer Rate	<b>For WLAN:</b> 802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps <b>For BT-EDR:</b> Up to 3 Mbps <b>For BT-LE:</b> Up to 2 Mbps
Operating Frequency	<b>For WLAN</b> <b>2.4GHz:</b> 802.11b: 2412 ~ 2484 MHz 802.11g/n (HT20), VHT20, 802.11ax (HE20): 2412 ~ 2472 MHz 802.11n (HT40), VHT40, 802.11ax (HE40): 2422 ~ 2462 MHz <b>5GHz:</b> 802.11a/n/ac/ax (W52+W53): 5180 ~ 5320 MHz 802.11a/n/ac/ax (W56): 5500 ~ 5720 MHz <b>For BT:</b> 2402 ~ 2480 MHz
Number of Channel	<b>For WLAN</b> <b>2.4GHz:</b> 802.11b: 14 802.11g/n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 <b>5GHz: (W52+W53)</b> 802.11a/n (HT20)/ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40)/ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 <b>5GHz: (W56)</b> 802.11a/n (HT20)/ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40)/ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 <b>For BT-EDR:</b> 79 <b>For BT-LE:</b> 40



Rated RF Output Power Density	Refer to note
Conducted RF Output Power Density	Refer to note
Radiated RF Output Power Density	Refer to note
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is issued as a supplementary report to BV CPS report as below test report:

Function	Report No.
WLAN_2.4GHz	RJBARR-WTW-P20110181G
WLAN_5GHz	
BT-EDR	
BT-LE	

2. The difference compared with original report is adding antennas and according to EUT's specification by the customer judgement, there is no additional tested.

Original										
Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
	Chain1	Cortec	AN2450-4902BRS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
2	Chain0	PSA	RFMTA34071 8EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
	Chain1	PSA	RFMTA34071 8EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
Ant. Set	Brand		Main/Aux	Model	Antenna Type	Peak gain with cable loss		Cable Loss	Connector Type	Cable Length (mm)
3	INPAQ		Main	DAM-I3-H1-M2-800-10-66	Dipole	1.03dBi @ 2.4GHz 2.07dBi @ 5GHz		2.17dB @ 2.4GHz 3.70dB @ 5GHz	SMA RP PLUG	800
	INPAQ		Aux	DAM-I3-H1-M2-800-10-66	Dipole	2.27dBi @ 2.4GHz 2.01dBi @ 5GHz		2.17dB @ 2.4GHz 3.70dB @ 5GHz	SMA RP PLUG	800
4	Luxshare-ICT		Main	LA9RF059-CS-H	Dipole	0.3dBi @ 2.4GHz 0.2dBi @ 5GHz		1.84dB @ 2.4GHz 2.92dB @ 5GHz	SMA RP PLUG	925
	Luxshare-ICT		Aux	LA9RF059-CS-H	Dipole	-1.1dBi @ 2.4GHz -1.1dBi @ 5GHz		1.75dB @ 2.4GHz 2.78dB @ 5GHz	SMA RP PLUG	925

Ant. Set	Brand	Main/Aux	Model	Antenna Type	Peak gain with cable loss	Cable Loss	Connector Type	Cable Length (mm)
5	High-Tek Electronics Co., Ltd	Main	DC33002KO00 (0ACCN020029N)	PIFA	2.36dBi @ 2.4GHz 1.87dBi @ 5GHz	2.39dB @ 2.4GHz 4.08dB @ 5GHz	Seeptech	735
	High-Tek Electronics Co., Ltd	Aux	DC33002KO10 (0ACCN020030N)	PIFA	3.09dBi @ 2.4GHz 3.09dBi @ 5GHz	1.16dB @ 2.4GHz 1.97dB @ 5GHz	Seeptech	355
6	SOUTH STAR TECHNOLOGY., LTD	Main	DC33002KL00 (N12-7566-R0A)	PIFA	3.03dBi @ 2.4GHz 3.63dBi @ 5GHz	2.27dB @ 2.4GHz 3.52dB @ 5GHz	IPEX	735
	SOUTH STAR TECHNOLOGY., LTD	Aux	DC33002KL10 (N12-7567-R0A)	PIFA	2.74dBi @ 2.4GHz 3.19dBi @ 5GHz	1.11dB @ 2.4GHz 1.81dB @ 5GHz	IPEX	360
7	SOUTH STAR TECHNOLOGY., LTD	Main	DC33002KP00 (0ACCN020031N)	PIFA	1.91dBi @ 2.4GHz 1.75dBi @ 5GHz	2.33dB @ 2.4GHz 3.97dB @ 5GHz	Seeptech	715
	SOUTH STAR TECHNOLOGY., LTD	Aux	DC33002KP10 (0ACCN020032N)	PIFA	2.28dBi @ 2.4GHz 3.27dBi @ 5GHz	0.45dB @ 2.4GHz 0.77dB @ 5GHz	Seeptech	139
8	SOUTH STAR TECHNOLOGY., LTD	Main	DC33002KM00 (N12-7568-R0A)	PIFA	2.99dBi @ 2.4GHz 3.29dBi @ 5GHz	0.53dB @ 2.4GHz 0.87dB @ 5GHz	IPEX	173
	SOUTH STAR TECHNOLOGY., LTD	Aux	DC33002KM10 (N12-7569-R0A)	PIFA	2.31dBi @ 2.4GHz 3.31dBi @ 5GHz	0.97dB @ 2.4GHz 1.58dB @ 5GHz	IPEX	735
9	INPAQ	Main	DAM-J8-K1-DB-800-10-25	PIFA	2.32dBi @ 2.4GHz 2.82dBi @ 5GHz	1.70dB @ 2.4GHz 2.81dB @ 5GHz	SMA RP PLUG	800
	INPAQ	AUX	DAM-J8-K1-DB-800-10-25	PIFA	2.38dBi @ 2.4GHz 2.96dBi @ 5GHz	1.70dB @ 2.4GHz 2.81dB @ 5GHz	SMA RP PLUG	800
10	INPAQ	Main	DAM-J9-K1-DB-800-10-70	PIFA	2.25dBi @ 2.4GHz 2.79dBi @ 5GHz	1.70dB @ 2.4GHz 2.81dB @ 5GHz	SMA RP PLUG	800
	INPAQ	AUX	DAM-J9-K1-DB-800-10-70	PIFA	2.30dBi @ 2.4GHz 2.99dBi @ 5GHz	1.70dB @ 2.4GHz 2.81dB @ 5GHz	SMA RP PLUG	800
11	High-Tek Electronics Co., Ltd	Main	DC33002KQ00 (0ACCN020033N)	PIFA	2.81dBi @ 2.4GHz 3.05dBi @ 5GHz	1.29dB @ 2.4GHz 1.94dB @ 5GHz	SMA RP PLUG	345
	High-Tek Electronics Co., Ltd	AUX	DC33002KQ10 (0ACCN020034N)	PIFA	3.09dBi @ 2.4GHz 1.38dBi @ 5GHz	2.73dB @ 2.4GHz 3.99dB @ 5GHz	SMA RP PLUG	730
12	SOUTH STAR TECHNOLOGY., LTD	Main	DC33002KN00 (N12-7570-R0A)	PIFA	2.80dBi @ 2.4GHz 1.29dBi @ 5GHz	1.07dB @ 2.4GHz, 1.63dB @ 5GHz	IPEX	345
	SOUTH STAR TECHNOLOGY., LTD	AUX	DC33002KN10 (N12-7571-R0A)	PIFA	2.94dBi @ 2.4GHz 0.81dBi @ 5GHz	2.26dB @ 2.4GHz 3.45dB @ 5GHz	IPEX	730
13	Pulse	Main	DC33002KJ00	PIFA	2.93dBi @ 2.4GHz 2.97dBi @ 5GHz	1.2dB @ 2.4GHz 1.85dB @ 5GHz	Seeptech	400
	Pulse	AUX	DC33002KJ10	PIFA	1.28dBi @ 2.4GHz 1.88dBi @ 5GHz	0.96dB @ 2.4GHz 1.58dB @ 5GHz	Seeptech	340

Ant. Set	Brand	Main/Aux	Model	Antenna Type	Peak gain with cable loss	Cable Loss	Connector Type	Cable Length (mm)
14	High-Tek Electronics Co., Ltd	Main	DC33002KI00	PIFA	2.93dBi @ 2.4GHz 2.80dBi @ 5GHz	1.50dB @ 2.4GHz 2.32dB @ 5GHz	IPEX	374
	High-Tek Electronics Co., Ltd	AUX	DC33002KI10	PIFA	1.24dBi @ 2.4GHz 1.88dBi @ 5GHz	1.27dB @ 2.4GHz 1.86dB @ 5GHz	IPEX	300
15	High-Tek Electronics Co., Ltd	Main	DC33002KI00	PIFA	2.61dBi @ 2.4GHz 2.98dBi @ 5GHz	1.50dB @ 2.4GHz 2.19dB @ 5GHz	Seepotech	400
	High-Tek Electronics Co., Ltd	AUX	DC33002KI10	PIFA	2.93dBi @ 2.4GHz 3.05dBi @ 5GHz	1.27dB @ 2.4GHz 1.97dB @ 5GHz	Seepotech	340
16	Pulse	Main	DC33002KJ00	PIFA	0.38dBi @ 2.4GHz 2.91dBi @ 5GHz	1.2dB @ 2.4GHz 1.85dB @ 5GHz	IPEX	374
	Pulse	AUX	DC33002KJ10	PIFA	2.88dBi @ 2.4GHz 2.64dBi @ 5GHz	0.96dB @ 2.4GHz 1.57dB @ 5GHz	IPEX	300



Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
17	INPAQ	Main/Aux	DAM-L14-K1-N0-000-04-02	1.93dBi @ 2.4GHz 3.83dBi @ 5GHz 3.16 dBi @ 5.925~6.425GHz 2.57 dBi @ 6.425~6.525GHz 3.2 dBi @ 6.525~6.875GHz 3.13 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	without cable
18	Guan Hong	Main/Aux	13G0100 40011AK	2.23dBi @ 2.4GHz 3.32dBi @ 5GHz 3.41 dBi @ 5.925~6.425GHz 3.41 dBi @ 6.425~6.525GHz 3.36 dBi @ 6.525~6.875GHz 2.68 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	22
19	VSO	Main/Aux	821-111-01210724	1.9dBi @ 2.4GHz 3.3dBi @ 5GHz 3.8 dBi @ 5.925~6.425GHz 3.4 dBi @ 6.425~6.525GHz 3.5 dBi @ 6.525~6.875GHz 3 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	15
20	WIESON	Main	ARY121-0341-013-00	2.2 dBi @ 2.4GHz 3.57 dBi @ 5GHz 3.8 dBi @ 5.925~6.425GHz 3.37 dBi @ 6.425~6.525GHz 3.45 dBi @ 6.525~6.875GHz 3.06 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	without cable
		Aux	ARY121-0341-013-00	2.23 dBi @ 2.4GHz 3.44dBi @ 5GHz 3.66 dBi @ 5.925~6.425GHz 3.38 dBi @ 6.425~6.525GHz 3.36 dBi @ 6.525~6.875GHz 2.98 dBi @ 6.875~7.125GHz				without cable
21	WIESON	Main	ARY121-0341-011-00	2.4 dBi @ 2.4GHz 3.53 dBi @ 5GHz 3.69 dBi @ 5.925~6.425GHz 3.47 dBi @ 6.425~6.525GHz 3.39 dBi @ 6.525~6.875GHz 2.83 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	without cable
		Aux	ARY121-0341-011-00	2.3 dBi @ 2.4GHz 3.55 dBi @ 5GHz 3.63 dBi @ 5.925~6.425GHz 3.46 dBi @ 6.425~6.525GHz 3.36 dBi @ 6.525~6.875GHz 2.84 dBi @ 6.875~7.125GHz				without cable

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
22	WIESON	Main/Aux	ARY121-0341-011-00	2.4 dBi @ 2.4GHz 3.55 dBi @ 5GHz 3.69dBi @ 5.925~6.425GHz 3.47 dBi @ 6.425~6.525GHz 3.39 dBi @ 6.525~6.875GHz 2.83 dBi @ 6.875~7.125GHz	Dipole without cable	Dipole	R-SMA	without cable
23	WIESON	Main	ARY196-0341-003-00	1.59 dBi @ 2.4GHz 3.44 dBi @ 5GHz 3.24 dBi @ 5.925~6.425GHz 3.11 dBi @ 6.425~6.525GHz 3.30 dBi @ 6.525~6.875GHz 3.26 dBi @ 6.875~7.125GHz	0.76 dB @ 2.4G 1.22 dB @ 5G 1.26 dB @ 5.925~6.425GHz 1.26 dB @ 6.425~6.525GHz 1.26 dB @ 6.525~6.875GHz 1.33 dB @ 6.875~7.125GHz	PIFA	i-pex(MHF)	160
		Aux	ARY196-0341-004-00	1.67 dBi @ 2.4GHz 3.75 dBi @ 5GHz 3.07 dBi @ 5.925~6.425GHz 2.34 dBi @ 6.425~6.525GHz 3.14 dBi @ 6.525~6.875GHz 3.01 dBi @ 6.875~7.125GHz	0.94 dB @ 2.4G 1.47 dB @ 5G 1.88 dB @ 5.925~6.425GHz 1.88 dB @ 6.425~6.525GHz 1.97 dB @ 6.525~6.875GHz 2.16 dB @ 6.875~7.125GHz			210
24	INPAQ	Main	DAM-J8-K1-DB-800-10-25	2.32dBi @ 2.4GHz 2.82dBi @ 5GHz 2.97 dBi @ 5.925~6.425GHz 2.64 dBi @ 6.425~6.525GHz 2.64 dBi @ 6.525~6.875GHz 2.57 dBi @ 6.875~7.125GHz	1.62 dB @ 2.4G 2.69dB @ 5G 2.87 dB @ 5.925~6.425GHz 2.90 dB @ 6.425~6.525GHz 3.02 dB @ 6.525~6.875GHz 3.15 dB @ 6.875~7.125GHz	PIFA	SMA RP PLUG	800
		Aux	DAM-J8-K1-DB-800-10-25	2.38 dBi @ 2.4GHz 2.97 dBi @ 5GHz 2.98 dBi @ 5.925~6.425GHz 2.96 dBi @ 6.425~6.525GHz 2.84 dBi @ 6.525~6.875GHz 2.82 dBi @ 6.875~7.125GHz	1.7 dB @ 2.4G 2.51dB @ 5G 2.87 dB @ 5.925~6.425GHz 2.90 dB @ 6.425~6.525GHz 3.02 dB @ 6.525~6.875GHz 3.15 dB @ 6.875~7.125GHz			800

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
25	INPAQ	Main	DAM-J9-K1-DB-800-10-70	2.25 dBi @ 2.4GHz 2.79 dBi @ 5GHz 2.89 dBi @ 5.925~6.425GHz 2.94 dBi @ 6.425~6.525GHz 2.95 dBi @ 6.525~6.875GHz 2.97 dBi @ 6.875~7.125GHz	1.58 dB @ 2.4G 2.61dB @ 5G 2.87 dB @ 5.925~6.425GHz 2.90 dB @ 6.425~6.525GHz 3.02 dB @ 6.525~6.875GHz 3.15 dB @ 6.875~7.125GHz	PIFA	SMA RP PLUG	800
		Aux	DAM-J9-K1-DB-800-10-70	2.30 dBi @ 2.4GHz 2.99 dBi @ 5GHz 2.85 dBi @ 5.925~6.425GHz 3.09 dBi @ 6.425~6.525GHz 3.11 dBi @ 6.525~6.875GHz 3.14 dBi @ 6.875~7.125GHz	1.70 dBi @ 2.4G 2.61dB @ 5G 2.87 dB @ 5.925~6.425GHz 2.90 dBi @ 6.425~6.525GHz 3.02 dBi @ 6.525~6.875GHz 3.15 dBi @ 6.875~7.125GHz			800
26	INPAQ	Main	WA-P-LE-02-045	2.24dBi @ 2.4~2.5GHz 2.68dBi @ 5.15~5.85GHz 3.01 @ 5.925~6.425GHz -1.23 @ 6.425~6.525GHz -1.96 @ 6.525~6.875GHz -3.68 @ 6.875~7.125GHz	0.72 dBi @ 2.4G 1.12dBi @ 5G 1.21 dBi @ 5.925~6.425GHz 1.19 dBi @ 6.425~6.525GHz 1.21 dBi @ 6.525~6.875GHz 1.29 dBi @ 6.875~7.125GHz	PIFA	IPEX-4L	190
		Aux	WA-P-LE-02-046	-2.96dBi @ 2.4~2.485GHz 1.16dBi @ 5.15~5.85GHz 0.99 @ 5.925~6.425GHz -2.31 @ 6.425~6.525GHz -2.54 @ 6.525~6.875GHz -7.44 @ 6.875~7.125GHz	1.3dB @ 2.4G 2.16dB @ 5G 2.2 dB @ 5.925~6.425GHz 2.23 dB @ 6.425~6.525GHz 2.25 dB @ 6.525~6.875GHz 2.34 dB @ 6.875~7.125GHz			325
27	Auden	Main	AUK0194 9B-WIFI1	2.55dBi @ 2.4GHz 1.97dBi @ 5GHz	0.5dB @ 2.4G 0.8dB @ 5G	PIFA	I-PEX 4	160
		Aux	AUK0194 9B-WIFI2	2.4dBi @ 2.4GHz 2.68dBi @ 5GHz	0.5dB @ 2.4G 0.8dB @ 5G			160
28	HTK	Main	0ACMSI2 1001N	-1.56dBi @ 2.4~2.5GHz 2.19dBi @ 5.15~5.85GHz 2.51 @ 5.925~6.425GHz 0.72 @ 6.425~6.525GHz 3.29 @ 6.525~6.875GHz 3.29 @ 6.875~7.125GHz	0.55dB @ 2.4~2.485GHz 0.95dB @ 5.15~5.85GHz 1.04dB @ 5.925~6.425GHz 1.04dB @ 6.425~6.525GHz 1.08dB @ 6.525~6.875GHz 1.12dB @ 6.875~7.125GHz	PIFA	MHF4L	200
		Aux	0ACMSI2 1002N	-2.72dBi @ 2.4~2.485GHz 0.16dBi @ 5.15~5.85GHz 0.16 @ 5.925~6.425GHz 0.56 @ 6.425~6.525GHz 2.04 @ 6.525~6.875GHz 0.81 @ 6.875~7.125GHz	1.17dB @ 2.4~2.485GHz 2.02dB @ 5.15~5.85GHz 2.21dB @ 5.925~6.425GHz 2.21dB @ 6.425~6.525GHz 2.29dB @ 6.525~6.875GHz 2.38dB @ 6.875~7.125GHz			425

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
29	INNOWER	Main	660-INNEP01 81-A	0.64dBi @2.4~2.4835GHz 3.08dBi @5.15~5.85GHz 3.27dBi @5.925~6.425GHz 0.27dBi @6.425~6.525GHz 1.33dBi @6.525~6.875GHz 1.59dBi @6.875~7.125GHz	-1.23dB@2.4~2.4835GHz -2.04dB@5.15~5.85GHz -2.26dB@5.925~6.425GHz -2.26dB@6.425~6.525GHz -2.26dB@6.525~6.875GHz -2.77dB@6.875~7.125GHz	PIFA	i-pex(MHF)	480
		Aux	660-INNEP01 82-A	2.49dBi @2.4~2.4835GHz 2.41dBi @5.15~5.85GHz 2.26dBi @5.925~6.425GHz 1.59dBi @6.425~6.525GHz 1.69dBi @6.525~6.875GHz 1.69dBi @6.875~7.125GHz	-1.41dB@2.4~2.4835GHz -2.33dB@5.15~5.85GHz -2.59dB@5.925~6.425GHz -2.59dB@6.425~6.525GHz -2.59dB@6.525~6.875GHz -3.18dB@6.875~7.125GHz			550
30	INPAQ	Main	WA-P-LE-02-030	2.82dBi@2.4~2.4835GHz 4dBi @5.15~5.85GHz 3.9dBi @5.925~6.425GHz 3.93dBi @6.425~6.525GHz 4.1dBi @6.525~6.875GHz 3.75dBi @6.875~7.12GHz	0.92dB@2.4~2.4835GHz 1.43dB@5.15~5.85GHz 1.54dB@5.925~6.425GHz 1.57dB@6.425~6.525GHz 1.58dB@6.525~6.875GHz 1.64dB@6.875~7.125GHz	PIFA	i-pex(MHF)	289
		Aux	WA-P-LE-02-031	2.33dBi @2.4~2.4835GHz 3.25dBi @5.15~5.85GHz 3.85dBi @5.925~6.425GHz 3.58dBi @6.425~6.525GHz 3.35dBi @6.525~6.875GHz 3.35dBi @6.875~7.12GHz	1.48dB@2.4~2.4835GHz 2.46dB@5.15~5.85GHz 2.5dB@5.925~6.425GHz 2.54dB@6.425~6.525GHz 2.56dB@6.525~6.875GHz 2.66dB@6.875~7.125GHz			469
31	INPAQ	Main	WA-P-LE-02-028	3.02dBi @2.4~2.4835GHz 4.04dBi @5.15~5.85GHz 4.23dBi @5.925~6.425GHz 4.23dBi @6.425~6.525GHz 4.3dBi @6.525~6.875GHz 4.15dBi @6.875~7.12GHz	0.72dB@2.4~2.4835GHz 1.12dB@5.15~5.85GHz 1.21dB@5.925~6.425GHz 1.19dB@6.425~6.525GHz 1.21dB@6.525~6.875GHz 1.29dB@6.875~7.125GHz	PIFA	i-pex(MHF)	227
		Aux	WA-P-LE-02-029	2.53dBi @2.4~2.4835GHz 3.3dBi @5.15~5.85GHz 4.15dBi @5.925~6.425GHz 3.88dBi @6.425~6.525GHz 3.58dBi @6.525~6.875GHz 3.58dBi @6.875~7.12GHz	1.3dB@2.4~2.4835GHz 2.16dB@5.15~5.85GHz 2.2dB@5.925~6.425GHz 2.23dB@6.425~6.525GHz 2.25dB@6.525~6.875GHz 2.34dB@6.875~7.125GHz			412
32	Luxshare-ICT	Main	LA9RF05 9-CS-H	0.3dBi@2.4~2.4835GHz 1.3dBi@5.15~5.85GHz 1.2dBi@5.925~7.125 GHz	1.84dB@2.4~2.4835GHz 2.94dB@5.15~5.85GHz 3.52dB@5.925~7.125 GHz	Dipole	SMA R/P Plug	925
		Aux	LA9RF05 9-CS-H	-1.10dBi@2.4~2.4835GHz -1.10dBi@5.15~5.85GHz 1.4dBi@5.925~7.125 GHz	1.75dB@2.4~2.4835GHz 2.78dB@5.15~5.85GHz 3.36dB@5.925~7.125 GHz			876
33	ASUS	Main	14008-02650500	1.03dBi@2.4~2.4835GHz 2.07dBi@5.15~5.85GHz 2.80dBi@5.925~7.125 GHz	Dipole with cable	Dipole	SMA R/P Plug	800
		Aux	14008-02650500	2.27dBi@2.4~2.4835GHz 2.01dBi@5.15~5.85GHz 3.08dBi@5.925~7.125 GHz	Dipole with cable			800



# Newly

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
34	Auden	Main	ANTRG5E123-1801	3.11 dBi @ 2.4GHz 2.30 dBi @ 5GHz 2.82 dBi @ 5.925~6.425GHz 2.28 dBi @ 6.425~6.525GHz 1.67 dBi @ 6.525~6.875GHz 0.89 dBi @ 6.875~7.125GHz	-3.68 dB @ 2.4G -4.11 dB @ 5G -4.29 dB @ 5.925~6.425GHz -4.30 dB @ 6.425~6.525GHz -4.33 dB @ 6.525~6.875GHz -4.42 dB @ 6.875~7.125GHz	PIFA	I-PEX MHF-4L	547
		Aux	ANTRG5E123-1802	2.20 dBi @ 2.4GHz 1.64 dBi @ 5GHz 2.09 dBi @ 5.925~6.425GHz 2.19 dBi @ 6.425~6.525GHz 1.79 dBi @ 6.525~6.875GHz 1.62 dBi @ 6.875~7.125GHz	-3.92 dB @ 2.4G -4.48 dB @ 5G -4.90 dB @ 5.925~6.425GHz -4.99 dB @ 6.425~6.525GHz -5.03 dB @ 6.525~6.875GHz -5.25 dB @ 6.875~7.125GHz			667
35	WGT	Main	ANTRG5W119-0301	3.15 dBi @ 2.4GHz 4.45 dBi @ 5GHz 4.73 dBi @ 5.925~6.425GHz 4.04 dBi @ 6.425~6.525GHz 3.39 dBi @ 6.525~6.875GHz 2.55 dBi @ 6.875~7.125GHz	0.76 dB @ 2.4G 1.31 dB @ 5G 1.39 dB @ 5.925~6.425GHz 1.47 dB @ 6.425~6.525GHz 1.51 dB @ 6.525~6.875GHz 1.59 dB @ 6.875~7.125GHz	PIFA	I-PEX MHF-4L	257
		Aux	ANTRG5W119-0302	2.01 dBi @ 2.4GHz 4.36 dBi @ 5GHz 4.10 dBi @ 5.925~6.425GHz 3.64 dBi @ 6.425~6.525GHz 4.43 dBi @ 6.525~6.875GHz 2.78 dBi @ 6.875~7.125GHz	1.24 dB @ 2.4G 2.14 dB @ 5G 2.28 dBi @ 5.925~6.425GHz 2.41 dBi @ 6.425~6.525GHz 2.47 dBi @ 6.525~6.875GHz 2.60 dBi @ 6.875~7.125GHz			436



Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
36	Auden	Main	ANTRG7M119-1801	2.21 dBi @ 2.4GHz 3.83 dBi @ 5GHz 3.99 dBi @ 5.925~6.425GHz 3.99 dBi @ 6.425~6.525GHz 3.84 dBi @ 6.525~6.875GHz 4.03 dBi @ 6.875~7.125GHz	-3.30 dB @ 2.4G -6.43 dB @ 5G -6.59 dB @ 5.925~6.425GHz -6.80 dB @ 6.425~6.525GHz -6.55 dB @ 6.525~6.875GHz -6.40 dB @ 6.875~7.125GHz	PIFA	I-PEX MHF-4L	370
		Aux	ANTRG7M119-1802	3.04 dBi @ 2.4GHz 4.09 dBi @ 5GHz 4.71 dBi @ 5.925~6.425GHz 4.19 dBi @ 6.425~6.525GHz 4.42 dBi @ 6.525~6.875GHz 4.01 dBi @ 6.875~7.125GHz	-3.30 dB @ 2.4G -6.43 dB @ 5G -6.59 dB @ 5.925~6.425GHz -6.80 dB @ 6.425~6.525GHz -6.55 dB @ 6.525~6.875GHz -6.40 dB @ 6.875~7.125GHz			170
37	Auden	Main	ANTRG6X123-1801	2.36 dBi @ 2.4GHz 4.53 dBi @ 5GHz 2.42 dBi @ 5.925~6.425GHz 3.00 dBi @ 6.425~6.525GHz 3.05 dBi @ 6.525~6.875GHz 3.46 dBi @ 6.875~7.125GHz	-1.18dB @ 2.4G -2.05 dB @ 5G -2.49 dB @ 5.925~6.425GHz -2.50 dB @ 6.425~6.525GHz -2.53 dB @ 6.525~6.875GHz -2.82 dB @ 6.875~7.125GHz	PIFA	I-PEX MHF-4L	215
		Aux	ANTRG6X123-1802	0.19 dBi @ 2.4GHz 0.89 dBi @ 5GHz 1.08 dBi @ 5.925~6.425GHz 0.91 dBi @ 6.425~6.525GHz 0.45 dBi @ 6.525~6.875GHz 1.41 dBi @ 6.875~7.125GHz	-3.38 dB @ 2.4G -4.50 dB @ 5G -4.72 dB @ 5.925~6.425GHz -4.73 dB @ 6.425~6.525GHz -4.84 dB @ 6.525~6.875GHz -4.85 dB @ 6.875~7.125GHz			495

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
38	Auden	Main	ANTRG6Q123-1801	2.98 dBi @2.4GHz 2.59 dBi @5GHz 1.97 dBi @5.925~6.425GHz 1.85 dBi @6.425~6.525GHz 2.24 dBi @6.525~6.875GHz 1.41 dBi @6.875~7.125GHz	-3.18 dB @2.4G -4.21 dB @5G -4.33 dB @5.925~6.425GHz -4.35 dB @6.425~6.525GHz -4.37 dB @6.525~6.875GHz -4.40 dB @6.875~7.125GHz	PIFA	I-PEX MHF-4L	460
		Aux	ANTRG6Q123-1802	1.14 dBi @2.4GHz 1.36 dBi @5GHz 0.60 dBi @5.925~6.425GHz 0.41 dBi @6.425~6.525GHz 0.30 dBi @6.525~6.875GHz 0.18 dBi @6.875~7.125GHz	-3.61 dB @2.4G -4.87 dB @5G -5.24 dB @5.925~6.425GHz -5.35 dB @6.425~6.525GHz -5.38 dB @6.525~6.875GHz -5.41 dB @6.875~7.125GHz			615
39	INPAQ	Main	ANTRG6Z123-1601	3.10 dBi @2.4GHz 3.58 dBi @5GHz 2.96 dBi @5.925~6.425GHz 2.96 dBi @6.425~6.525GHz 1.82 dBi @6.525~6.875GHz 2.86 dBi @6.875~7.125GHz	0.94 dB @2.4G 1.45 dB @5G 1.53 dB @5.925~6.425GHz 1.57 dB @6.425~6.525GHz 1.61 dB @6.525~6.875GHz 1.67 dB @6.875~7.125GHz	PIFA	I-PEX MHF-4L	260
		Aux	ANTRG6Z123-1602	3.14 dBi @2.4GHz 4.00 dBi @5GHz 2.76 dBi @5.925~6.425GHz 0.55 dBi @6.425~6.525GHz 0.84 dBi @6.525~6.875GHz 0.82 dBi @6.875~7.125GHz	1.42 dB @2.4G 2.19 dB @5G 2.32 dB @5.925~6.425GHz 2.37 dB @6.425~6.525GHz 2.43 dB @6.525~6.875GHz 2.52 dB @6.875~7.125GHz			393
40	WGT	Main	ANTRG5V119-0301	3.00 dBi @2.4GHz 2.31 dBi @5GHz	1.48 dB @2.4G 2.29 dB @5G	PIFA	I-PEX MHF-4L	520
		Aux	ANTRG5V119-0302	3.07 dBi @ 2.4GHz 2.03 dBi @ 5GHz	1.87 dB @2.4G 2.90 dB @5G			681

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

4. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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