

Radio Test Report

Report No.: RJBARR-WTW-P21100969I

Test Model: MT7902

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Applicant: MediaTek Inc.

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Release Control Record

Issue No.	Description	Date Issued
RJBARR-WTW-P21100969I	Original release	2023/1/5

1 Certificate of Conformity

Product: 1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7902

Applicant: MediaTek Inc.

Standards: ARIB STD-T66 (V3.7),
MIC No.88(2004) Test method of specified radio equipments
Annex no. 43 Article 2 paragraph 1 item (19)
RCR STD-33 (V5.4),
MIC No.88(2004) Test method of specified radio equipments
Annex no. 44 Article 2 paragraph 1 item (19)-2
Certification Ordinance Article 2-1-19-3
Certification Ordinance Article 2-1-79
Certification Ordinance Article 2-1-80

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

Prepared by : Vivian Huang , **Date:** 2023/1/5
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Approved by : May Chen , **Date:** 2023/1/5
May Chen / Manager

2 General Information

2.1 General Description of EUT

Product	1TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7902
Nominal Voltage	3.3Vdc from host equipment
Modulation Type	For WLAN CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT in 2.4GHz 1024QAM for OFDMA in 11ax mode For BT-EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK For BT-LE: GFSK
Modulation Technology	For WLAN: DSSS, OFDM, OFDMA For BT-EDR: FHSS For BT-LE: DTS
Transfer Rate	For WLAN: 802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps For BT-EDR: Up to 3 Mbps For BT-LE: Up to 2 Mbps
Operating Frequency	For WLAN: 2.4GHz: 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 5GHz: 802.11a/n/ac/ax (W52+W53): 5180 ~ 5320 MHz 802.11a/n/ac/ax (W56): 5500 ~ 5720 MHz 6GHz: 5955 ~ 6415 MHz For BT: 2402 ~ 2480 MHz
Number of Channel	For WLAN 2.4GHz: 802.11b: 14 802.11g/n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: (W52+W53) 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): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5GHz: (W56) 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): 3 802.11ac (VHT160), 802.11ax (HE160): 1 6GHz: 802.11a, 802.11ax (HE20): 24

	802.11ax (HE40): 12 802.11ax (HE80): 6 802.11ax (HE160): 3 For BT-EDR: 79 For BT-LE: 40
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-P21100969D-2
WLAN_5GHz	RJBARR-WTW-P21100969D-3
BT-EDR	RJBARR-WTW-P21100969D-1
BT-LE	RJBARR-WTW-P21100969D
WLAN_6GHz (LPI)	RJBARR-WTW-P21100969D-4
WLAN_6GHz (VLP)	RJBARR-WTW-P21100969D-5

Old antenna filling RJBARR-WTW-P21100969G

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								
Antenna Set No	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
	Chain1	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835	PIFA	ipex(MHF)	200
				4.92	5.15~5.895			
2	Chain0	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835	PIFA	ipex(MHF)	200
				4.82	5.15~5.895			
				4.76	5.925~6.425			
				4.29	6.425~6.525			
	Chain1	PSA	RFMTA311020EMMB301	4.61	6.525~6.875	PIFA	ipex(MHF)	200
				4.09	6.875~7.125			
				1.71	2.4~2.4835			
				4.82	5.15~5.895			
	Chain0	PSA	RFMTA311020EMMB301	4.76	5.925~6.425	PIFA	ipex(MHF)	200
				4.29	6.425~6.525			
				4.61	6.525~6.875			
				4.09	6.875~7.125			

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
3	LUXSHARE-ICT	Main	LA9RF361-CS-H	2.98 dBi @ 2.4GHz 4.92dBi @ 5GHz	0.66 dB @2.4GHz 1.06 dB @5GHz	PIFA	I-PEX	275
		Aux	LA9RF362-CS-H	2.78 dBi @ 2.4GHz 2.59 dBi @ 5GHz	1.26 dB @2.4GHz 1.95dB @5GHz			520
4	AWAN	Main	AYF6Y-100190	2.88 dBi @ 2.4GHz 4.82 dBi @ 5GHz	0.69 dB @2.4GHz 1.17 dB @5GHz	PIFA	IPEX NGFF	275
		Aux	AYF6Y-100191	2.64 dBi @ 2.4GHz 2.47 dBi @ 5GHz	1.3 dB @2.4GHz 2.21 dB @5GHz			520

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
5	INPAQ	Main	WA-P-LE-02-064	2.75 dBi @ 2.4GHz 4.57 dBi @ 5.15~5.85GHz	0.56 dB @2.4GHz 0.87 dB @ 5.15~5.85GHz	PIFA	I-PEX MHF4-L	200
		Aux	WA-P-LE-01-006	2.71 dBi @ 2.4GHz 4.63 dBi @ 5.15~5.85GHz	1.22 dB @2.4GHz 1.90 dB @5.15~5.85GHz			440
6	PULSE	Main	TZ20921	2.55 dBi @ 2.4GHz 4.33 dBi @ 5.15~5.85GHz	0.60 dB @2.4GHz 0.85 dB @5.15~5.85GHz	PIFA	I-PEX	200
		Aux	TZ20924	2.22 dBi @ 2.4GHz 4.15 dBi @5.15~5.85GHz	1.33 dB @2.4GHz 1.86 dB @5.15~5.85GHz			440

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
7	WNC	Main	81EABU15.G37 (DC33002R700)	2.23 dBi @ 2.4GHz 0.46 dBi @ 5GHz	1.56 dB @2.4GHz 2.23 dB @5GHz	PIFA	I-pex MHF-4L	608.5
		Aux	81EABU15.G38 (DC33002R710)	1.69 dBi @ 2.4GHz 0.02 dBi @ 5GHz	2.09 dB @2.4GHz 2.97 dB @5GHz			813.5
8	WNC	Main	81EABU15.G53	2.43dBi @ 2.4GHz 2.01dBi @ 5GHz	2.12 dB @2.4GHz 3.28dB @5GHz	PIFA	i-pex(MHF)	587
		Aux	81EABU15.G53	2.84dBi @ 2.4GHz 1.26dBi @ 5GHz	2.73 dB @2.4GHz 4.22dB @5GHz			757

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
9	INPAQ	Main:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25)	Main:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25)	2.32dBi @ 2.4GHz 2.82dBi @ 5GHz 2.97 dBi @ 5.925~6.425GHz 2.64 dBi @6425~6525GHz 2.64 dBi @6.525~6.875GHz 2.57 dBi @6.875~7.125GHz	1.62 dB @2.4GHz 2.69dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz	PIFA	SMA RP PLUG	800
		Aux:12CR5-1ANTA2-51R (DAM-J8-K1-DB-800-10-25)	Aux:12CR5-1ANTA2-51R (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 @6425~6525GHz 2.84 dBi @6.525~6.875GHz 2.82 dBi @6.875~7.125GHz	1.7 dB @2.4GHz 2.51dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz			800
10	INPAQ	Main:12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70)	12CR5-1ANTA2-61R (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 @6425~6525GHz 2.95 dBi @6.525~6.875GHz 2.97 dBi @6.875~7.125GHz	1.58 dB @2.4GHz 2.61dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 3.02 dB @6.525~6.875GHz 3.15 dB @6.875~7.125GHz	PIFA	SMA RP PLUG	800
		Aux:12CR5-1ANTA2-61R (DAM-J9-K1-DB-800-10-70)	12CR5-1ANTA2-61R (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 @6425~6525GHz 3.11 dBi @6.525~6.875GHz 3.14 dBi @6.875~7.125GHz	1.7 dB @2.4GHz 2.61dB @5GHz 2.87 dB@ 5.925~6.425GHz 2.90 dB @6425~6525GHz 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)
11	ASUS	Main	14008-02650000	1.64@2.4~2.4835GHz 1.15@5.15~5.85GHz	2.2dB @2.4GHz 4.0dB @5GHz	Dipole	SMA RP PLUG(RF Cable : IPEX MHF4)	800
		Aux	14008-02650000	1.65@2.4~2.4835GHz 1.12@5.15~5.85GHz	2.2dB @2.4GHz 4.0dB @5GHz	Dipole	SMA RP PLUG(RF Cable : IPEX MHF4)	800
12	ASUS	Main	14008-02650400	0.4@2.4~2.4835GHz 0.1@5.15~5.85GHz	2.21dB @2.4GHz 3.54dB @5GHz	Dipole	SMA RP PLUG(RF Cable : IPEX MHF4)	800
		Aux	14008-02650400	-0.8@2.4~2.4835GHz 2.7@5.15~5.85GHz	2.21dB @2.4GHz 3.54dB @5GHz	Dipole	SMA RP PLUG(RF Cable : IPEX MHF4)	800

Ant. Set	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
13	ASUS	Main	14008-02650600	1.23@2.4~2.4835GHz 3.93@5.15~5.85GHz	1.84dB @2.4GHz 4.21dB @5GHz	Dipole	SMA R/P PLUG (RF Cable : IPEX)	800
		Aux	14008-02650600	-0.1@2.4~2.4835GHz 4.55@5.15~5.85GHz	1.75dB @2.4GHz 3.97dB @5GHz	Dipole	SMA R/P PLUG (RF Cable : IPEX)	800
14	Cortec	Main	AN2450-4902BRS	2.92@2.4~2.4835GHz 4.67@5.15~5.85GHz	0.5 dB @2.4GHz 0.8 dB @5GHz	Dipole	SMA R/P PLUG (RF Cable : IPEX)	150
	Cortec	Aux	AN2450-4902BRS	2.92@2.4~2.4835GHz 4.67@5.15~5.85GHz	0.5 dB @2.4GHz 0.8 dB @5GHz	Dipole	SMA R/P PLUG (RF Cable : IPEX)	150

Newly

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
15	INPAQ	Main	WA-P-LE-02-157 (14008-05600200)	2.88 dBi @ 2.4GHz 3.08dBi @ 5GHz 2.55 dBi @ 5.925~6.425GHz 3.12 dBi @6.425~6.525GHz 4.00 dBi @6.525~6.875GHz 3.83 dBi @6.875~7.125GHz	0.5 dB @2.4G 0.75 dB @5G 0.82 dB @ 5.925~6.425GHz 0.83 dB @6.425~6.525GHz 0.85 dB @6.525~6.875GHz 0.88 dB @6.875~7.125GHz	PIFA	IPEX MHF4-L	180	DIV
		Aux	WA-P-LE-01-046 (14008-05600300)	2.83 dBi @ 2.4GHz 2.12 dBi @ 5GHz 1.05 dBi @ 5.925~6.425GHz 1.94 dBi @6.425~6.525GHz 3.21 dBi @6.525~6.875GHz 3.21 dBi @6.875~7.125GHz	1.96 dB @2.4G 2.99 dB @5G 3.21 dB @ 5.925~6.425GHz 3.29 dB @6.425~6.525GHz 3.38 dB @6.525~6.875GHz 3.49 dB @6.875~7.125GHz			545	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
16	Luxshare-ICT	Main	LA9RF474-CS-H (14008-05600000)	2.32 dBi @ 2.4GHz 2.85 dBi @ 5GHz 2.50 dBi @ 5.925~6.425GHz 3.03 dBi @ 6.425~6.525GHz 3.87 dBi @ 6.525~6.875GHz 3.81 dBi @ 6.875~7.125GHz	0.49 dB @2.4G 0.76 dB @5G 0.79 dB @ 5.925~6.425GHz 0.79 dB @ 6.425~6.525GHz 0.80 dB @ 6.525~6.875GHz 0.80 dB @ 6.875~7.125GHz	PIFA	IPEX :20565-001R-13	180	DIV
		Aux	LA9RF475-CS-H (14008-05600100)	2.81 dBi @ 2.4GHz 1.63 dBi @ 5GHz 1.03 dBi @ 5.925~6.425GHz 1.92 dBi @ 6.425~6.525GHz 2.46 dBi @ 6.525~6.875GHz 3.09 dBi @ 6.875~7.125GHz	1.34 dB @2.4G 2.10 dB @5G 2.18 dB @ 5.925~6.425GHz 2.18 dB @ 6.425~6.525GHz 2.20 dB @ 6.525~6.875GHz 2.21 dB @ 6.875~7.125GHz			545	
17	INPAQ	Main	WA-P-LE-02-128 (14008-05590200)	2.6 dBi @ 2.4GHz 4.16 dBi @ 5GHz 3.71dBi @ 5.925~6.425GHz 3.55 dBi @ 6.425~6.525GHz 3.95 dBi @ 6.525~6.875GHz 3.5 dBi @ 6.875~7.125GHz	0.57 dB @2.4G 0.87 dB @5G 0.93 dB @ 5.925~6.425GHz 0.95 dB @ 6.425~6.525GHz 0.97 dB @ 6.525~6.875GHz 1 dB @ 6.875~7.125GHz	PIFA	IPEX MHF-4L	205	DIV
		Aux	WA-P-LE-01-034 (14008-05590300)	2.43 dBi @ 2.4GHz 3.18 dBi @ 5GHz 1.95 dBi @ 5.925~6.425GHz 1.63 dBi @ 6.425~6.525GHz 2.67 dBi @ 6.525~6.875GHz 3.1 dBi @ 6.875~7.125GHz	1.98 dB @2.4G 2.92 dB @5G 3.24 dB @ 5.925~6.425GHz 3.32 dB @ 6.425~6.525GHz 3.41 dB @ 6.525~6.875GHz 3.53 dB @ 6.875~7.125GHz			550	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
18	Luxshare-ICT	Main	LA9RF438-CS-H (14008-05590000)	2.87 dBi @ 2.4GHz 4.37 dBi @ 5GHz 4.17 dBi @ 5.925~6.425GHz 3.82 dBi @6.425~6.525GHz 4.09 dBi @6.525~6.875GHz 3.76 dBi @6.875~7.125GHz	0.55 dB @2.4G 0.86 dB @5G 0.88 dB @ 5.925~6.425GHz 0.91 dB @6.425~6.525GHz 0.91 dB @6.525~6.875GHz 0.92 dB @6.875~7.125GHz	PIFA	IPEX MHF-4L	205	DIV
		Aux	LA9RF439-CS-H (14008-05590100)	2.86 dBi @ 2.4GHz 3.33dBi @ 5GHz 2.23 dBi @ 5.925~6.425GHz 2.12 dBi @6.425~6.525GHz 3.08 dBi @6.525~6.875GHz 3.35 dBi @6.875~7.125GHz	1.62 dB @2.4G 2.49 dB @5G 2.69 dB @ 5.925~6.425GHz 2.76 dB @6.425~6.525GHz 2.81 dB @6.525~6.875GHz 2.85 dB @6.875~7.125GHz			550	
19	INPAQ	Main	HQ20604864000 (WA-P-LE-02-071)	2.49dBi @ 2.4GHz 3.3dBi @ 5GHz 2.78dBi @ 5.925~6.425GHz 1.03 dBi @6.425~6.525GHz 1.54 dBi @6.525~6.875GHz 1.28 dBi @6.875~7.125GHz	0.6 dB @2.4G 0.89 dB @5G 0.98 dB @ 5.925~6.425GHz 1 dB @6.425~6.525GHz 1.02 dB @6.525~6.875GHz 1.05 dB @6.875~7.125GHz	PIFA	IPEX MHF-4L	216	DIV
		Aux	HQ20604863000 (WA-P-LE-03-003)	2.45 dBi @ 2.4GHz 2.99 dBi @ 5GHz 2.34 dBi @ 5.925~6.425GHz 1.93 dBi @6.425~6.525GHz 2.66 dBi @6.525~6.875GHz 2.87 dBi @6.875~7.125GHz	1.06 dB @2.4G 1.58 dB @5G 1.77 dB @ 5.925~6.425GHz 1.81 dB @6.425~6.525GHz 1.87 dB @6.525~6.875GHz 1.74 dB @6.875~7.125GHz			383	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
20	INNOWAVE Corporation	Main	F00168007110001 (HQ20604865000)	2.88dBi @ 2.4GHz 3.93dBi @ 5GHz 2.82dBi @ 5.925~6.425GHz 3.69dBi @6.425~6.525GHz 4.53dBi @6.525~6.875GHz 3.42dBi @6.875~7.125GHz	0.55 dB @2.4G 1.12 dB @5G 1.19 dB @ 5.925~6.425GHz 1.23 dB @6.425~6.525GHz 1.27 dB @6.525~6.875GHz 1.06 dB @6.875~7.125GHz	PIFA	IPEX MHF-4L	216	DIV
		Aux	F00168007510002 (HQ20604862000)	2.77 dBi @ 2.4GHz 3.2 dBi @ 5GHz 2.5 dBi @ 5.925~6.425GHz 2.94 dBi @6.425~6.525GHz 2.89 dBi @6.525~6.875GHz 2.97 dBi @6.875~7.125GHz	1.08 dB @2.4G 1.75 dB @5G 1.91 dB @ 5.925~6.425GHz 2 dB @6.425~6.525GHz 2.05 dB @6.525~6.875GHz 2.1 dB @6.875~7.125GHz			383	
21	INPAQ	Main	WA-P-LE-02-113	2.33 dBi @ 2.4GHz 2.96 dBi @ 5GHz 4.23 dBi @ 5.925~6.425GHz 2.82 dBi @6.425~6.525GHz 3.63 dBi @6.525~6.875GHz 3.61 dBi @6.875~7.125GHz	0.57 dB @2.4G 0.85 dB @5G 0.93 dB @ 5.925~6.425GHz 0.95 dB @6.425~6.525GHz 0.98 dB @6.525~6.875GHz 1.01 dB @6.875~7.125GHz	PIFA	I-PEX MHF-4L	206	DIV
		Aux	WA-P-LE-03-010	2.06 dBi @ 2.4GHz 3.71 dBi @ 5GHz 3.09 dBi @ 5.925~6.425GHz 3.09 dBi @6.425~6.525GHz 2.61 dBi @6.525~6.875GHz 3.07 dBi @6.875~7.125GHz	0.88 dB @2.4G 1.35 dB @5G 1.44 dB @ 5.925~6.425GHz 1.47 dB @6.425~6.525GHz 1.5 dB @6.525~6.875GHz 1.55 dB @6.875~7.125GHz			317	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
22	INNOWAVE Corporation	Main	F00192307110001 (HQ2060508L000)	1.46 dBi @ 2.4GHz 2.84 dBi @ 5GHz 1.72 dBi @ 5.925~6.425GHz 2.2 dBi @6.425~6.525GHz 2.2 dBi @6.525~6.875GHz 3.29 dBi @6.875~7.125GHz	0.52 dB @2.4G 0.96 dB @5G 1.03 dB @ 5.925~6.425GHz 1.08 dB @6.425~6.525GHz 1.1 dB @6.525~6.875GHz 1.15 dB @6.875~7.125GHz	PIFA	IPEX MHF-4L	206	DIV
		Aux	F00192307510002 (HQ2060508K000)	0.9 dBi @ 2.4GHz 1.67 dBi @ 5GHz 1.98 dBi @ 5.925~6.425GHz 1.98 dBi @6.425~6.525GHz 2.55 dBi @6.525~6.875GHz 3.02 dBi @6.875~7.125GHz	0.79 dB @2.4G 1.49 dB @5G 1.59 dB @ 5.925~6.425GHz 1.66 dB @6.425~6.525GHz 1.67 dB @6.525~6.875GHz 1.77 dB @6.875~7.125GHz			317	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
23	INPAQ Corporation	Main	WA-P-LE-02-083 (HQ20604916000) (Platform type:K6502V)	2.91 dBi @ 2.4GHz 3.95 dBi @ 5GHz 4.25 dBi @ 5.925~6.425GHz 3.76 dBi @ 6.425~6.525GHz 4.26 dBi @ 6.525~6.875GHz 3.28 dBi @ 6.875~7.125GHz	0.53 dB @2.4G 0.82 dB @5G 0.92 dB @ 5.925~6.425GHz 0.92 dB @ 6.425~6.525GHz 0.96 dB @ 6.525~6.875GHz 1.01 dB @ 6.875~7.125GHz	PIFA	IPEX MHF-4L	190	DIV
		Aux	WA-P-LE-03-008 (HQ20604917000) (Platform type:K6502V)	2.94 dBi @ 2.4GHz 4.46 dBi @ 5GHz 4.29 dBi @ 5.925~6.425GHz 4.06 dBi @ 6.425~6.525GHz 4.32 dBi @ 6.525~6.875GHz 3.09 dBi @ 6.875~7.125GHz	1.01 dB @2.4G 1.56 dB @5G 1.75 dB @ 5.925~6.425GHz 1.75 dB @ 6.425~6.525GHz 1.82 dB @ 6.525~6.875GHz 1.93 dB @ 6.875~7.125GHz			362	
	INPAQ Corporation	Main	WA-P-LE-02-083 (HQ20604916000) (Platform type:K6602V)	2.92 dBi @ 2.4GHz 4.46 dBi @ 5GHz 4.1 dBi @ 5.925~6.425GHz 4.2 dBi @ 6.425~6.525GHz 4.13 dBi @ 6.525~6.875GHz 3.68 dBi @ 6.875~7.125GHz	0.53 dB @2.4G 0.82 dB @5G 0.92 dB @ 5.925~6.425GHz 0.92 dB @ 6.425~6.525GHz 0.96 dB @ 6.525~6.875GHz 1.01 dB @ 6.875~7.125GHz	PIFA	IPEX MHF-4L	190	DIV
		Aux	WA-P-LE-03-008 (HQ20604917000) (Platform type:K6602V)	2.62 dBi @ 2.4GHz 3.72 dBi @ 5GHz 4.44 dBi @ 5.925~6.425GHz 4.02 dBi @ 6.425~6.525GHz 4.5 dBi @ 6.525~6.875GHz 3.98 dBi @ 6.875~7.125GHz	1.01 dB @2.4G 1.56 dB @5G 1.75 dB @ 5.925~6.425GHz 1.75 dB @ 6.425~6.525GHz 1.82 dB @ 6.525~6.875GHz 1.93 dB @ 6.875~7.125GHz			362	

Antenna Set No	Brand	Main/Aux	Model	Peak gain with cable loss	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)	Remark
24	INNOWAVE Corporation	Main	F00175607110001 (HQ20604919000) (Platform type:K6502V)	2.85 dBi @ 2.4GHz 3.43 dBi @ 5GHz 4.03 dBi @ 5.925~6.425GHz 3.3 dBi @ 6.425~6.525GHz 3.58 dBi @ 6.525~6.875GHz 3.62 dBi @ 6.875~7.125GHz	0.53 dB @2.4G 1.06dB @5G 1.12 dB @ 5.925~6.425GHz 1.14 dB @ 6.425~6.525GHz 1.21 dB @ 6.525~6.875GHz 1.23 dB @ 6.875~7.125GHz	PIFA	IPEX-20565	216	DIV
		Aux	F00175607510002 (HQ20604918000) (Platform type:K6502V)	2.82 dBi @ 2.4GHz 4.25 dBi @ 5GHz 3.89 dBi @ 5.925~6.425GHz 3.96 dBi @ 6.425~6.525GHz 4.18 dBi @ 6.525~6.875GHz 3.02 dBi @ 6.875~7.125GHz	1.02 dB @2.4G 1.72 dB @5G 1.88 dB @ 5.925~6.425GHz 1.97 dB @ 6.425~6.525GHz 2.01 dB @ 6.525~6.875GHz 2.05 dB @ 6.875~7.125GHz			383	
	INNOWAVE Corporation	Main	F00175607110001 (HQ20604919000) (Platform type:K6602V)	2.9 dBi @ 2.4GHz 3.47 dBi @ 5GHz 3.78dBi @ 5.925~6.425GHz 3.09 dBi @ 6.425~6.525GHz 3.39dBi @ 6.525~6.875GHz 3.36 dBi @ 6.875~7.125GHz	0.53 dB @2.4G 1.06 dB @5G 1.12 dB @ 5.925~6.425GHz 1.14 dB @ 6.425~6.525GHz 1.21 dB @ 6.525~6.875GHz 1.23 dB @ 6.875~7.125GHz	PIFA	IPEX-20565	216	DIV
		Aux	F00175607510002 (HQ20604918000) (Platform type:K6602V)	2.58 dBi @ 2.4GHz 3.03 dBi @ 5GHz 4.04 dBi @ 5.925~6.425GHz 3.97 dBi @ 6.425~6.525GHz 4.01dBi @ 6.525~6.875GHz 3.67 dBi @ 6.875~7.125GHz	1.02 dB @2.4G 1.72 dB @5G 1.88 dB @ 5.925~6.425GHz 1.97 dB @ 6.425~6.525GHz 2.01 dB @ 6.525~6.875GHz 2.05 dB @ 6.875~7.125GHz			383	

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. Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

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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