



JAPAN RADIO TEST REPORT

Equipment : 802.11b/g/n RTL8723BE Combo module
Brand Name : REALTEK
Model Name : RTL8723BENF
Applicant : Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Manufacturer : Realtek Semiconductor Corp.
No. 2, Innovation Road II, Hsinchu Science Park,
Hsinchu 300, Taiwan
Standard : MIC Certification Rule, Article 2 Paragraph 1 Item 19-2

The product was received on Feb. 02, 2013, and testing was started from May 08, 2018 and completed on Jan. 16, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in MIC Notice No.88 Appendix No.44 and shown compliance with the applicable MIC Ordinance Regulating Radio Equipment Article 49.20 and ARIB STD-T33 technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.


Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 24
Issued Date : Jan. 21, 2019
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2.1	ORE:5	Frequency Tolerance	PASS	-
2.2	ORE:6	Occupied Bandwidth	PASS	-
2.2	ORE:49.20	Spread Bandwidth / Factor	PASS	-
2.3	ORE:7, Table 3	Unwanted Emission Strength	PASS	-
2.4	ORE:49.20	RF Output Power	PASS	-
2.4	ORE:14	RF Output Power Tolerance	PASS	-
2.4	ORE:24	Secondarily Emitted Radio Wave Strength (RX Spurious)	PASS	-
2.6	TR:9	Interference Prevention Function	PASS	-
2.7	TR:9	Carrier Sensing Function	PASS	-
2.8	ORE:49.20	Construction Protection Confirmation	PASS	-
RLE: Radio Law Enforcement Regulations ORE: Ordinance Regulating Radio Equipment TR: Terminal and Other Equipment Regulations NT: Notification of the Ministry of Internal Affairs and Communications				

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Cliff Chang

Report Producer: Wendy Pan

1. General Information

1.1. Product Details

Items	Description
Power Type	From Host System
Modulation	DSSS
Data Modulation	DSSS (BPSK / QPSK / CCK)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11)
Frequency Range	2471 ~ 2497MHz
Channel Number	1
Occupied Bandwidth	20.96 MHz
Spread Bandwidth	15.20 MHz
Spreading Factor	11.05
Declare Antenna Power Density	2.703 mW/MHz
Measure EIRP Power	7.82 dBm/MHz
Carrier Frequencies	Please refer to section 1.4
Antenna	Please refer to section 1.3

1.2. Accessories

N/A

1.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
1	LYNwave	ALA110-222050-300011	PIFA Antenna	I-PEX MHF4	3.5	TX/RX

There are four configurations of EUT. The more information is listed as below table.

Configuration	Type	Power Type	Antenna Variety	Type of Antenna
1	NGFF	PCI-E (WLAN)	Diversity	PIFA with I-PEX MHF4 connector
		USB (Bluetooth)		
2	NGFF	PCI-E (WLAN)	Fixed	PIFA with I-PEX MHF4 connector
		USB (Bluetooth)		
3	NGFF	SDIO (WLAN)	Diversity	PIFA with I-PEX MHF4 connector
		UART (Bluetooth)		
4	NGFF	SDIO (WLAN)	Fixed	PIFA with I-PEX MHF4 connector
		UART (Bluetooth)		

Note 1: The above information was declared by manufacturer.

Note 2: The more detail information of diversity type and fixed type is listed as below.

For diversity type: (Both of those two antenna connectors can be used.)

The EUT supports the antenna with TX/RX diversity function for WLAN and Bluetooth.

For WLAN 802.11b/g/n (1TX, 1RX) mode:

Both of Chain 1 and Chain 2 can be used as transmitting/receiving antennas,

but only one antenna can be used as transmitting/receiving antenna at the same time.

Chain 1 generated the worst case than Chain 2, so it is tested and recorded in the report.

For Bluetooth mode:

Base on WLAN's operation mode to select the other antenna to work.

(Ex. Assume Main port was selected to conduct transmitting function in WIFI,

so AUX port was selected in Bluetooth Mode. Vice versa.)

Chain 1 generated the worst case than Chain 2, so it is tested and recorded in the report.

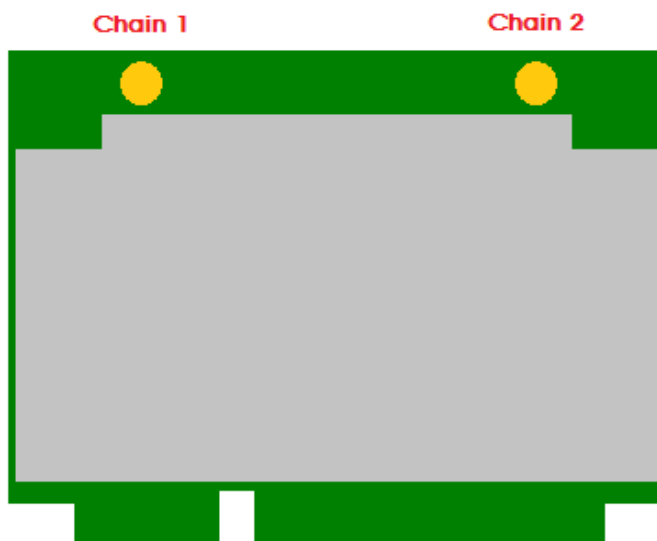
For fixed type: (Chain 1 is designated for WLAN function, Chain 2 is designated for Bluetooth function.)

For WLAN 802.11b/g/n (1TX, 1RX) mode:

Chain 1 can be used as transmitting/receiving antenna.

For Bluetooth mode:

Chain 2 can be used as transmitting/receiving antenna.



1.4. Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency
2471 ~ 2497MHz	14	2484 MHz

1.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Frequency Error	Un-modulation	-	14
Occupied Bandwidth (99%)	11B DSSS	1Mbps	14
Spread-spectrum Bandwidth (90%)	11B DSSS	1Mbps	14
Unwanted Emission Intensity	11B DSSS	1Mbps	14
Antenna Power Error	11B DSSS	1Mbps	14
Limitation of Emission of Receiver	11B DSSS	1Mbps	14
Identification Code	11B DSSS	1Mbps	14
Carrier Sense Capability	11B DSSS	1Mbps	14

1.6. Table for Slight Change

This product is an extension of original one reported under Sporton project number: JR762929-06AD

Below is the illustration for the change of the product with respect to the original one.

Report No. / Detail	Gist	Modifications
JR762929-10AD	The total antennas amounted to 958 sets.	There is no hardware or electrical modification made to the applying modular transmitter itself. Adding 3 sets of PIFA antenna and 2 sets of Dipole antenna with lower gain than the original Certificate and it is not necessary to verify for test. Please refer to the Appendix C for detail.

1.7. Table for Testing Locations

Test Site Location					
Address:	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.				
TEL:	886-3-656-9065				
FAX:	886-3-656-9085				
Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
TH01-CB	OVEN Room	Hsin Chu	-	-	-

1.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	M1330	E2KWM3945ABG

1.9. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of CH14

Test Software Version	Realtek Realtek 11n 8723B WLAN MP Diagnostic Program 0.0014 20130205
Frequency	2484
Ch14	45

2. Test Result

2.1. Frequency Error Measurement

2.1.1. Limit

Item	Limits
Frequency Tolerance	$\leq 50\text{ppm}$

2.1.2. Measuring Instruments and Setting

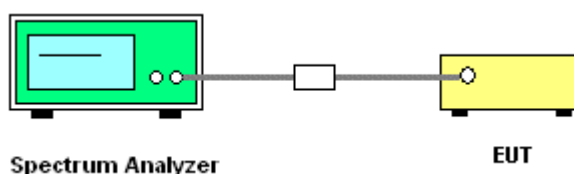
Please refer to section 3 in this report. The following table is the setting of the spectrum.

Spectrum Parameter	Setting
Span Frequency	1 MHz
RBW / VBW	10 kHz / 30 kHz

2.1.3. Test Procedures

1. Frequency accuracy of SA shall be less than 10% of limits tolerance(5ppm)
2. Setting of SA is following as: RBW:10kHz / VBW:30kHz / SPAN: 1MHz / AT: 10dB / Ref: 0dBm
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time: Auto
5. Sweep mode: Continuous sweep
6. Detect mode: Positive peak
7. Mark function: Frequency Counter (Resolution 100Hz)
8. EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value , fc is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and the limit is less than $\pm 50\text{ppm}$

2.1.4. Test Setup Layout



2.1.5. Test Deviation

There is no deviation with the original standard.

2.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in un-modulation function.

**2.1.7. Results of Frequency Error**

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B DSSS	2.Test Result

2.2. Occupied Bandwidth and Spread-spectrum Bandwidth / Factor Measurement

2.2.1. Limit

Item	Limits
Occupied Band Width:	$\leq 26\text{MHz}$
Spreading Bandwidth:	$\geq 500\text{ kHz (FH, DS)}$

2.2.2. Measuring Instruments and Setting

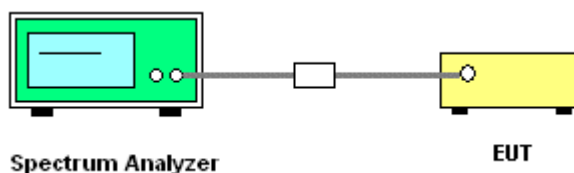
Please refer to section 3 in this report. The following table is the setting of the spectrum.

Power Meter Parameter	Setting
Span Frequency	50 MHz
RBW / VBW	300 kHz

2.2.3. Test Procedures

1. Setting of SA is following as: RBW:300kHz / VBW:300kHz / SPAN: 50MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
3. SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.
4. Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
5. Spread Spectrum Factor limit is greater than 10

2.2.4. Test Setup Layout



2.2.5. Test Deviation

There is no deviation with the original standard.

2.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.2.7. Results of Occupied Bandwidth and Spread-spectrum Bandwidth / Factor

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B DSSS	2.Test Result
Appendix B. 19-2-Ch14	11B DSSS	9.Spread Factor

2.3. Unwanted Emission Intensity Measurement

2.3.1. Limit

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}$ (2458MHz>f ; 2510MHz<f)
	$\leq 25 \mu\text{W}$ (2458MHz $\leq$ f<2471MHz) and (2497MHz<f $\leq$ 2510MHz)

2.3.2. Measuring Instruments and Setting

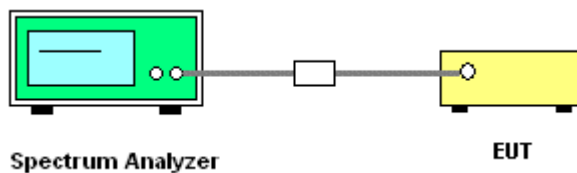
Please refer to section 3 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW / VBW	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

2.3.3. Test Procedures

1. EUT have transmitted the maximum modulation signal and fixed channelize.
2. Setting of SA is following as: RBW:1MHz / VBW:1MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. Setting of SA is following as 30MHz and stop frequency 2458MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.
4. SA adjusted to start frequency 2458MHz and stop frequency 2471MHz. Then to mark peak reading value + cable loss shall be less than 25 μ W.
5. SA adjusted to start frequency 2497MHz and stop frequency 2510MHz Then to mark peak reading value + cable loss shall be less than 25 μ W
6. SA adjusted to start frequency 2510MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W
7. Measure side band spurious as follows: For 2.4GHz band: 2445MHz ~ 2471MHz and 2497MHz ~ 2523MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
8. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

2.3.4. Test Setup Layout



2.3.5. Test Deviation

There is no deviation with the original standard.

2.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.3.7. Test Result of Unwanted Emission Intensity

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B	2.Test Result
	DSSS	5.Unwanted Emission Intensity

2.4. Antenna Power Error Measurement

2.4.1. Limit

Item	Limits
Antenna Power Density	$\leq 10 \text{ mW/MHz}$
Antenna Power Error	+20%, -80% (Base on manufacturer declare antenna power density)

2.4.2. Measuring Instruments and Setting

Please refer to section 3 in this report. The following table is the setting of the power meter and spectrum analyzer.

Spectrum Analyzer	Setting
Attenuation	30dB
Span Frequency	0 MHz
RBW	1 MHz
VBW	1 MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

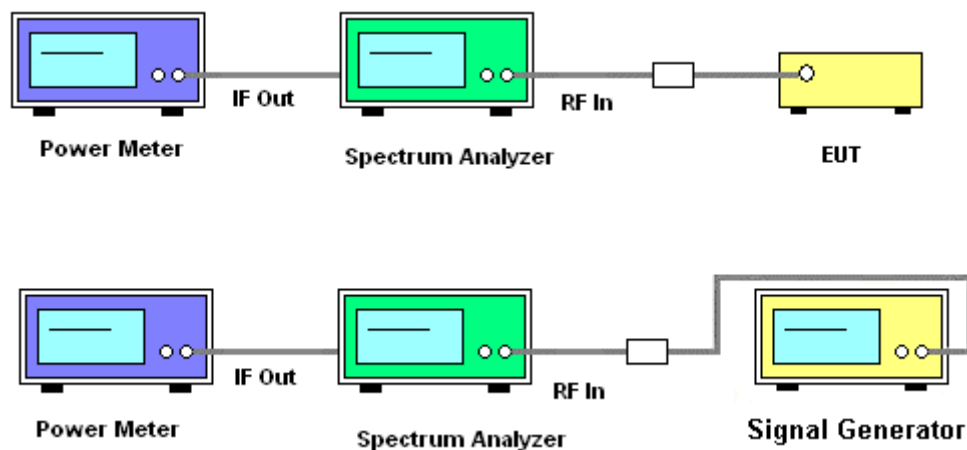
Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Average Sensor	MA2411B

2.4.3. Test Procedures

1. A power meter is connected on the IF output port of the spectrum analyzer.
2. Adjust the spectrum analyzer to have the center frequency the same with the measured carrier. RBW=VBW=1MHz, detector mode is positive peak. Turn off the averaging function and use zero span.
3. The calibrating signal power shall be reduced to 0 dBm and it shall be verified that the power meter reading also reduces by 10 dB.
4. Connect the equipment to be measured. Using the following settings of the spectrum analyzer in combination with "max hold" function, find the frequency of highest power output in the power envelope: center frequency equal to operating frequency; RBW & VBW: 1 MHz; detector mode: positive peak; averaging: off; span: 3 times the spectrum width; amplitude: adjust for middle of the instrument's range. The frequency found shall be recorded.

5. Set the center frequency of the spectrum analyzer to the found frequency and switch to zero span. The power meter indicates the measured power density "E".
6. Remove the EUT and put the replacing standard signal generator (SSG). Set the standard signal generator (SSG) at same frequency and transmit on, then set SSG output power at Pt to give the equivalent output level of "E".
7. Calculate antenna power density by the formula below $PD = Pt + 10 \cdot \log(1/x)$.
x: The duty cycle of the EUT in continuously transmitting mode
Pt: Output power of the SSG
8. Antenna Power Error is definition that actual measure antenna power tolerance between + 20% to - 80% power range that base on manufacturer declare the conducted power density.

2.4.4. Test Setup Layout



2.4.5. Test Deviation

There is no deviation with the original standard.

2.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4.7. Test Result of Antenna Power Error

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B	2.Test Result
	DSSS	3.Antenna Power (Conducted Power)

2.5. Limitation of Collateral Emission of Receiver Measurement

2.5.1. Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

2.5.2. Measuring Instruments and Setting

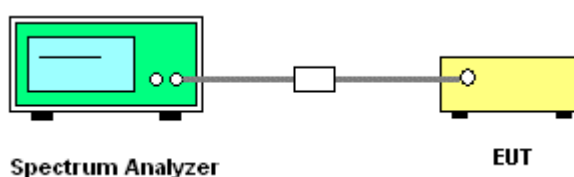
Please refer to section 3 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions)
VBW	100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

2.5.3. Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RBW / VBW: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

2.5.4. Test Setup Layout



2.5.5. Test Deviation

There is no deviation with the original standard.

2.5.6. EUT Operation during Test

The EUT was programmed to be in continuously reception mode.

2.5.7. Test Result of Limitation of Collateral Emission of Receiver

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B	2.Test Result
	DSSS	6.Limitation of Collateral Emission of Receiver

2.6. Radio Interference Prevention Equipment (Identification Code) Measurement

2.6.1. Limit

Item	Limits
Identification code	≥ 48 bits

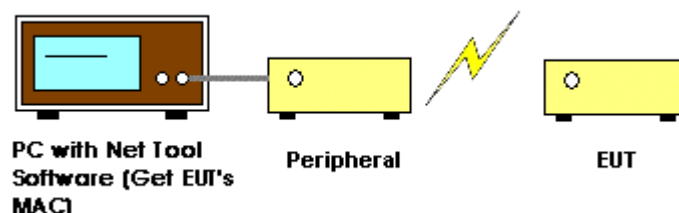
2.6.2. Measuring ID Code Software

PC with NetTool	Setting
MAC IP List	MAC Scan

2.6.3. Test Procedures

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

2.6.4. Test Setup Layout



2.6.5. Test Deviation

There is no deviation with the original standard.

2.6.6. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

2.6.7. Test Result of Radio Interference Prevention Equipment (Identification Code)

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B DSSS	2. Test Results (ID Code)

2.7. Radio Interference Prevention Equipment (Carrier Sense Capability) Measurement

2.7.1. Limit

Item	Limits
Carrier Sense	Good – EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

2.7.2. Measuring Instruments and Setting

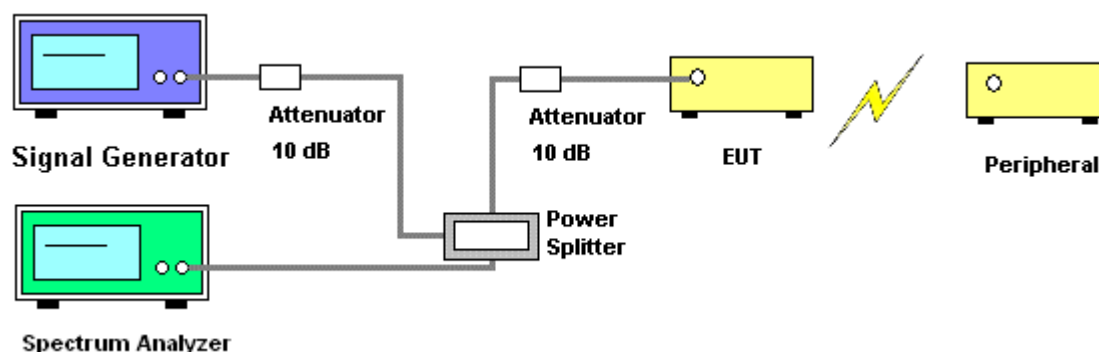
Please refer to section 3 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW / VBW	1 MHz
Span	0 MHz
Sweep	Continuous
Detector	Peak
Trigger mode	Video

2.7.3. Test Procedures

- SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: RBW:1MHz / VBW:1MHz / SPAN: 50MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak.
- SSG RF Signal On.
- EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

2.7.4. Test Setup Layout



**2.7.5. Test Deviation**

There is no deviation with the original standard.

2.7.6. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

2.7.7. Test Result of Radio Interference Prevention Equipment (Carrier Sense Capability)

Reference Documents	Mode	Test Item
Appendix B. 19-2-Ch14	11B DSSS	8. Carrier Sense Capability

2.8. Construction Protection Confirmation Method

2.8.1. Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

2.8.2. Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Shielding Case	RF and Modulation components are covered with shielding case and this shielding case is soldered



3. List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Calibration Method	Calibration Agent Name	Remark
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	c)	C	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~ 26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	c)	A	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY534100 01	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	c)	A	Conducted (TH01-CB)
Digital Multimeters	Fluke	15B+	42390498 WS	N/A	Oct. 18, 2018	Oct. 17, 2019	c)	A	Conducted (TH01-CB)
Spectrum Analyzer	R&S	FSV40	101026	9kHz~40GHz	Sep. 28, 2018	Sep. 27, 2019	c)	A	Conducted (TH01-CB)
Signal generator	R&S	SMB100A	177785	25MHz-6GHz	Jul. 18, 2018	Jul. 17, 2019	c)	A	Conducted (TH01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)

Note: 1. Calibration Interval of instruments listed above is one year.

2. N.C.R. means Non-Calibration required.

3. Calibration Agent Name: Describe calibration agent name with its country name, and symbols in "Calibration Agent Name" shows the agent names as follows,

A: Electronics Testing Center, Taiwan.

B: Sporton International Inc., Taiwan.

C: ROHDE&SCHWARZ., Taiwan.

4. Calibration Method

a) : Calibration conducted by the National Institute of Information and Communications Technology or a designated calibration agency under Article 102-18 paragraph (1)

b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

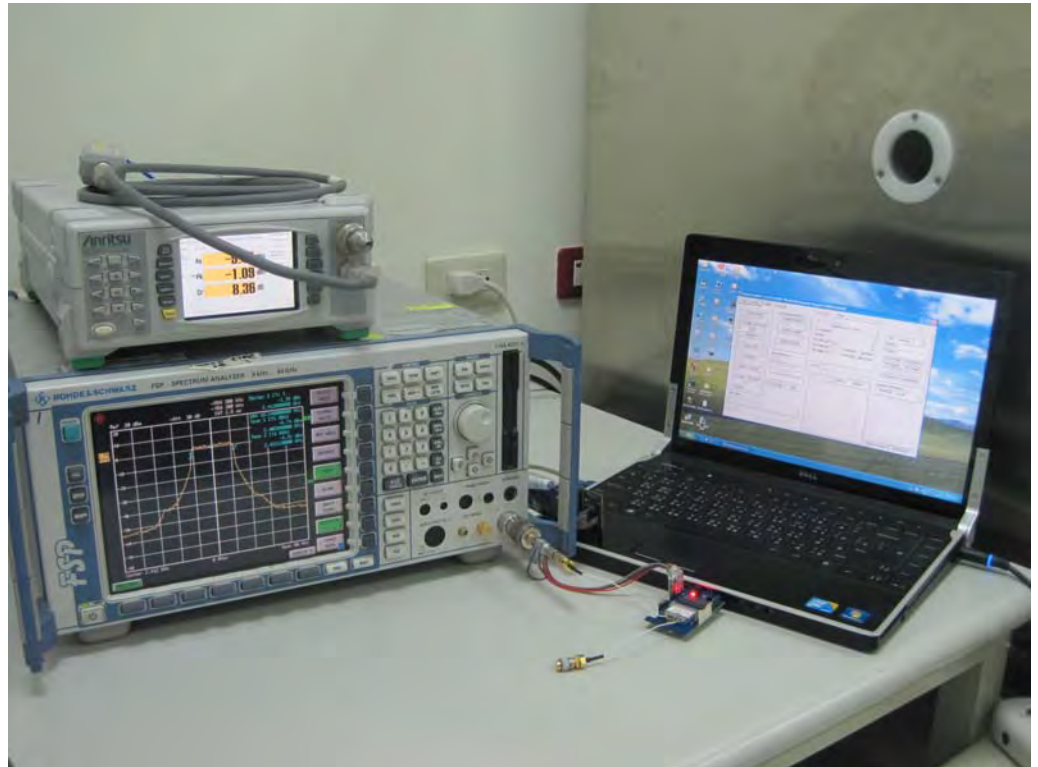
d) : Calibration conducted by using other equipment that listed above from a) to c)

4. Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	1.7 dB	Confidence levels of 95%
Radio frequency	6.6×10^{-8} MHz	Confidence levels of 95%

Appendix A. Test Photos

1. Photographs of Test Configuration



Appendix B 19-2-Ch14

Sporton No.	JR762929-10AD
Sporton No.	2019/1/16
Test Location	SPORTON Lab.
Temp. / Humid.	23°C / 63%
Test Conducted By	
Name	Owen Hsu
Department	Radio Service Group

1. General Information

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19-2 Model		RTL8723BENF	
	Type of Emission	G1D	Serial No.	NA	
	Modulation Type	DSSS: BPSK, QPSK, CCK	Antenna Power	2.703	mW/MHz
	Frequency	2484 MHz			

2. Test Results

Testing for Electrical Specification	Test Voltage	V	Normal Voltage (3.3 V)						Remarks		
	Test Frequency	MHz	2484							Low/Mid/High of test frequency range	
	Measured Frequency	MHz	2483.997								
	Frequency Error	ppm	-1.21							Limit ≤ 50 ppm	
	Occupied Bandwidth	MHz	20.96							Limit ≤ 26 MHz (RB/VB : 300kHz)	
	Spread-spectrum Bandwidth	MHz	15.20							Spread Factor Limit ≥ 10	
	Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	* 1 μ W/MHz	0.107								Limit ≤ 2.5 μ W/MHz (-26 dBm/MHz)
		* 2 μ W/MHz	10.304								Limit ≤ 25 μ W/MHz (-16 dBm/MHz)
		* 3 μ W/MHz	10.186								Limit ≤ 25 μ W/MHz (-16 dBm/MHz)
		* 4 μ W/MHz	0.063								Limit ≤ 2.5 μ W/MHz (-26 dBm/MHz)
	Antenna Power (Conducted)	mW/MHz	2.703								Limit ≤ 10 mW/MHz (10 dBm/MHz)
	Antenna Power Error	mW/MHz	0.000								
		%	0.00								Limit + 20% ~ - 80%
	Limitation of Collateral Emission of Receiver	* 5 nW	1.107								Limit ≤ 4 nW (-54 dBm)
		* 6 nW	0.085								Limit ≤ 20 nW (-47 dBm)
Radio Interference Prevention Function	ID Code	Good, MAC Address: 00-E0-4C-B7-23-01									
	Carrier Sense	Good								If EUT is without telecommunication port, NR: Not Require	

- * 1: Frequency Band 1 (30 MHz $\leq f \leq 2458$ MHz) * 4: Frequency Band 4 (2510 MHz $\leq f < 12.5$ GHz)
 * 2: Frequency Band 2 (2458 MHz $\leq f \leq 2471$ MHz) * 5: Frequency Band 5 (30 MHz $\leq f < 1000$ MHz)
 * 3: Frequency Band 3 (2497 MHz $\leq f < 2510$ MHz) * 6: Frequency Band 6 (1000 MHz $\leq f < 12.5$ GHz)

3. Antenna Power (Conducted Power)

Testing for Electrical Specification	Test Voltage	V	Normal Voltage (3.3 V)						Remarks			
	Test Frequency	MHz		2484								
	Power Meter Raw (IF of Spectrum)	dBm/MHz		-16.06								
	Power Measurement System Loss	dB		20.87								Refer to Calibration Result
	Transmitter Duty Cycle Factor	dB		0.00								Duty Factor = $10 \times 10\text{Log}_{10}(1/\text{Duty Cycle})$
	Equivalent Noise Bandwidth	MHz		1.12								ENB = $\text{Total_Sum}^2 / \text{Peak_Level} \times \text{Point_Width}$
	Equivalent Noise Bandwidth Factor	dB		0.49								ENB Factor = $10 \times 10\text{Log}_{10}(1/\text{ENB})$
	Antenna Power (Conducted)	dBm/MHz		4.32								Limit ≤ 10 mW/MHz (10 dBm/MHz)
	Antenna Power (Conducted)	mW/MHz		2.703								
	Antenna Power Error	mW		0.000								
		%		0.00								Limit + 20% ~ - 80%
	Transmitter ON _{Time}	msec							1.000			RBW : 1 MHz ; VBW : 1 MHz ; SP : 0Hz
	Transmitter (ON+OFF) _{Time}	msec							1.000			
	Transmitter Duty Cycle	%							100.00%			

4. EIRP Power

No.	Antenna Power	Antenna		Cable			Total Gain D=B+C	EIRP F=A+D	EIRP Power Limit	Remarks (Antenna Model)
	A (dBm/MHz)	Model	Gain B (dBi)	Model	Length (m)	Loss C (dB)	(dBi)	(dBm/MHz)	(dBm/MHz)	
1	4.32	PIFA	3.50				3.50	7.82	12.14	ALA110-222050-300011
2	4.32	PIFA	1.75				1.75	6.07	12.14	K05007012102
3	4.32	PIFA	2.70				2.70	7.02	12.14	K05007013402
4	4.32	PIFA	2.04				2.04	6.36	12.14	K05007012803
5	4.32	PIFA	2.53				2.53	6.85	12.14	K05007015501
6	4.32	PIFA	2.85				2.85	7.17	12.14	K05007014501
7	4.32	PIFA	3.00				3.00	7.32	12.14	K05007014201
8	4.32	PIFA	1.94				1.94	6.26	12.14	K05007015001
9	4.32	PIFA	-0.57				-0.57	3.75	12.14	APP6P-700900
10	4.32	PIFA	2.23				2.23	6.55	12.14	1510-0122-0022(IA-120073)
11	4.32	PIFA	3.20				3.20	7.52	12.14	SKX51WMPB01+C
12	4.32	PIFA	0.59				0.59	4.91	12.14	ANTA02P08021WLAN2
13	4.32	PIFA	1.79				1.79	6.11	12.14	SK 81WMPB01+A
14	4.32	PIFA	2.88				2.88	7.20	12.14	SKW2UWMPB01+A
15	4.32	PIFA	3.14				3.14	7.46	12.14	SKW31WMPB01+A
16	4.32	PIFA	-1.84				-1.84	2.48	12.14	SKM11WMPB03+A
17	4.32	PIFA	2.91				2.91	7.23	12.14	SKC45WMPB03+B
18	4.32	PIFA	3.17				3.17	7.49	12.14	SKW24WMPB01+B
19	4.32	PIFA	0.76				0.76	5.08	12.14	SK555WMPB01+B
20	4.32	PIFA	1.94				1.94	6.26	12.14	DQ60APP6P81
21	4.32	PIFA	-0.19				-0.19	4.13	12.14	DQ602352200
22	4.32	PIFA	2.64				2.64	6.96	12.14	DC330016110
23	4.32	PIFA	0.59				0.59	4.91	12.14	DC330016190
24	4.32	PIFA	0.32				0.32	4.64	12.14	DC330015290
25	4.32	PIFA	-0.37				-0.37	3.95	12.14	DC330015210
26	4.32	PIFA	1.64				1.64	5.96	12.14	DC330016160
27	4.32	PIFA	-0.38				-0.38	3.94	12.14	DC330015260
28	4.32	PIFA	2.26				2.26	6.58	12.14	DC330016180
29	4.32	PIFA	1.10				1.10	5.42	12.14	DC3300152A0
30	4.32	PIFA	-0.22				-0.22	4.10	12.14	DC330016200
31	4.32	PIFA	-0.70				-0.70	3.62	12.14	DC330016230
32	4.32	PIFA	-0.94				-0.94	3.38	12.14	DC330016020
33	4.32	PIFA	-1.68				-1.68	2.64	12.14	DC330016010
34	4.32	PIFA	-0.46				-0.46	3.86	12.14	DC330016260
35	4.32	PIFA	0.84				0.84	5.16	12.14	DC330016070
36	4.32	PIFA	-0.61				-0.61	3.71	12.14	DC33001C100
37	4.32	PIFA	-0.98				-0.98	3.34	12.14	DC33001AX00
38	4.32	PIFA	-0.27				-0.27	4.05	12.14	25.90AH8.021
39	4.32	PIFA	1.33				1.33	5.65	12.14	ATP6P-700001
40	4.32	PIFA	2.20				2.20	6.52	12.14	APP6P-700854
41	4.32	PIFA	1.20				1.20	5.52	12.14	APP6P-700931
42	4.32	PIFA	0.24				0.24	4.56	12.14	25.90AH8.001
43	4.32	PIFA	-0.84				-0.84	3.48	12.14	APP6P-700932
44	4.32	PIFA	0.20				0.20	4.52	12.14	81EAAS15.G01 (DC33001EK00)
45	4.32	PIFA	-0.77				-0.77	3.55	12.14	L01RF035-DT-R
46	4.32	PIFA	-0.63				-0.63	3.69	12.14	25.90AC4.011
47	4.32	PIFA	1.19				1.19	5.51	12.14	25.90AC4.001
48	4.32	PIFA	1.05				1.05	5.37	12.14	SK110WMPB01+A

49	4.32	PIFA	-1.61				-1.61	2.71	12.14	SKW23WMPB01+A
50	4.32	PIFA	0.78				0.78	5.10	12.14	SK549WMPB02+A
51	4.32	PIFA	0.20				0.20	4.52	12.14	SK740WMPB02+A
52	4.32	PIFA	3.03				3.03	7.35	12.14	SK840WMPB01+B_SN
53	4.32	PIFA	-0.26				-0.26	4.06	12.14	81EAAS15.G02
54	4.32	PIFA	0.89				0.89	5.21	12.14	DC33001EK40 (81EAAS15.G05)
55	4.32	PIFA	0.25				0.25	4.57	12.14	81.EL415.G29.X01
56	4.32	PIFA	0.14				0.14	4.46	12.14	T-543-900100-12
57	4.32	PIFA	0.11				0.11	4.43	12.14	DC33001F300 / T-543-900100-02
58	4.32	PIFA	0.39				0.39	4.71	12.14	T-543-900100-01
59	4.32	PIFA	0.46				0.46	4.78	12.14	SKC2TWMPB01+A
60	4.32	PIFA	1.48				1.48	5.80	12.14	SK670WMPB01+A
61	4.32	PIFA	-1.78				-1.78	2.54	12.14	WA-P-LB-01-046
62	4.32	PIFA	-4.42				-4.42	-0.10	12.14	SE-ECZA0-001
63	4.32	PIFA	0.26				0.26	4.58	12.14	81EAAS15.G13
64	4.32	PIFA	0.01				0.01	4.33	12.14	81EAAS15.G09
65	4.32	PIFA	1.84				1.84	6.16	12.14	APP6P-700917
66	4.32	PIFA	0.17				0.17	4.49	12.14	APP6P-700915
67	4.32	PIFA	2.13				2.13	6.45	12.14	IA 120278
68	4.32	PIFA	2.77				2.77	7.09	12.14	IA-120007
69	4.32	PIFA	2.93				2.93	7.25	12.14	IA-120007
70	4.32	PIFA	0.76				0.76	5.08	12.14	SK94SWMPB01+B
71	4.32	PIFA	1.86				1.86	6.18	12.14	SK94TWMPB01+B
72	4.32	PIFA	-0.03				-0.03	4.29	12.14	SK50SWMPB01+A
73	4.32	PIFA	0.84				0.84	5.16	12.14	APM8P-700072
74	4.32	PIFA	0.76				0.76	5.08	12.14	APP8P-700461
75	4.32	PIFA	1.74				1.74	6.06	12.14	APM8P-700070
76	4.32	PIFA	2.92				2.92	7.24	12.14	APP8P-700463
77	4.32	PIFA	0.72				0.72	5.04	12.14	260-24017
78	4.32	PIFA	-0.51				-0.51	3.81	12.14	DC33001CA30 (81.EK515.G53)
79	4.32	PIFA	2.07				2.07	6.39	12.14	APP8P-700474
80	4.32	PIFA	1.88				1.88	6.20	12.14	260-24016
81	4.32	PIFA	0.87				0.87	5.19	12.14	260-24011
82	4.32	PIFA	1.98				1.98	6.30	12.14	260-24012
83	4.32	PIFA	1.92				1.92	6.24	12.14	260-24001
84	4.32	PIFA	1.85				1.85	6.17	12.14	260-24003
85	4.32	PIFA	1.35				1.35	5.67	12.14	SE-ECWGP-002
86	4.32	PIFA	1.33				1.33	5.65	12.14	SE-ECLG2-002
87	4.32	PIFA	1.54				1.54	5.86	12.14	SE-ECWGR-002
88	4.32	PIFA	1.10				1.10	5.42	12.14	SE-ECLG1-002
89	4.32	PIFA	1.06				1.06	5.38	12.14	81.EK515.G37
90	4.32	PIFA	-0.90				-0.90	3.42	12.14	DC33001CA00 (81.EK515.G46)
91	4.32	PIFA	0.77				0.77	5.09	12.14	81.EK515.G38
92	4.32	PIFA	-0.20				-0.20	4.12	12.14	DC33001CC00 (81.EK515.G48)
93	4.32	PIFA	3.13				3.13	7.45	12.14	IA-130307
94	4.32	PIFA	2.09				2.09	6.41	12.14	IA-130082
95	4.32	PIFA	1.68				1.68	6.00	12.14	IA-130086 (13B130-FT2070)
96	4.32	PIFA	2.13				2.13	6.45	12.14	IA-130086 (13B130-FT2070)
97	4.32	PIFA	2.81				2.81	7.13	12.14	EGT22WIPB01+A (13B130-JV3051 ES)
98	4.32	PIFA	2.50				2.50	6.82	12.14	EGS45WIPB02+A (13B130-FT2050)
99	4.32	PIFA	1.46				1.46	5.78	12.14	EGS45WIPB01+A (13B130-FT2051)
100	4.32	PIFA	0.11				0.11	4.43	12.14	L01RF032-YT-R
101	4.32	PIFA	2.51				2.51	6.83	12.14	L01RF031-DT-R
102	4.32	PIFA	2.51				2.51	6.83	12.14	L01RF031-DT-R
103	4.32	PIFA	2.51				2.51	6.83	12.14	L01RF031-DT-R
104	4.32	PIFA	2.51				2.51	6.83	12.14	L01RF031-DT-R
105	4.32	PIFA	2.64				2.64	6.96	12.14	IA-130096
106	4.32	PIFA	2.03				2.03	6.35	12.14	IA-130173
107	4.32	PIFA	1.05				1.05	5.37	12.14	IA-130313
108	4.32	PIFA	2.57				2.57	6.89	12.14	IA-130314
109	4.32	PIFA	0.85				0.85	5.17	12.14	SE-ECWU6-001
110	4.32	PIFA	0.94				0.94	5.26	12.14	SE-ECWF5-001
111	4.32	PIFA	-0.12				-0.12	4.20	12.14	CAN4313NC0753LLB1
112	4.32	PIFA	1.13				1.13	5.45	12.14	SE-ECWF5-002
113	4.32	PIFA	1.13				1.13	5.45	12.14	CAN4313NC0753LLB2
114	4.32	PIFA	2.85				2.85	7.17	12.14	260-23557
115	4.32	PIFA	0.17				0.17	4.49	12.14	APP6Y-700000
116	4.32	PIFA	1.84				1.84	6.16	12.14	APP6Y-700002
117	4.32	PIFA	0.01				0.01	4.33	12.14	81EAAS15.G19
118	4.32	PIFA	0.26				0.26	4.58	12.14	81EAAS15.G17
119	4.32	PIFA	0.53				0.53	4.85	12.14	25.90ALN.001 (AMM8P-700027)
120	4.32	PIFA	0.77				0.77	5.09	12.14	25.90ALO.001 (640-INNEP0008-A)
121	4.32	PIFA	1.73				1.73	6.05	12.14	AMM6P-700025 (25.90AL4.001)
122	4.32	PIFA	1.79				1.79	6.11	12.14	25.90AL8.001 (640-INNEP0006-A)
123	4.32	PIFA	-2.85				-2.85	1.47	12.14	DQ608300300
124	4.32	PIFA	1.86				1.86	6.18	12.14	SK94TWMPB01+D
125	4.32	PIFA	2.01				2.01	6.33	12.14	260-24031
126	4.32	PIFA	1.95				1.95	6.27	12.14	DC33001GR00 / T-543-9021004-1
127	4.32	PIFA	-0.93				-0.93	3.39	12.14	WA-P-LB-01-049
128	4.32	PIFA	-0.23				-0.23	4.09	12.14	SE-ECSA0-001
129	4.32	PIFA	2.03				2.03	6.35	12.14	BAUK01063-WIFI-R
130	4.32	PIFA	1.00				1.00	5.32	12.14	WA-P-LB-10-015-R
131	4.32	PIFA	1.07				1.07	5.39	12.14	IA-130362
132	4.32	PIFA	2.63				2.63	6.95	12.14	IA-130157 (13B130-FU4070)
133	4.32	PIFA	2.82				2.82	7.14	12.14	EGC10WIPB01+A (13B130-FS8050)
134	4.32	PIFA	3.38				3.38	7.70	12.14	EG10MWIPB01+A (13B130-FU4051 ES)
135	4.32	PIFA	2.75				2.75	7.07	12.14	81.EEW.15.GAF (25.90AEM.001)
136	4.32	PIFA	-0.21				-0.21	4.11	12.14	AMM6P-700041 (025.9001G.0001)
137	4.32	PIFA	1.58				1.58	5.90	12.14	640-INNEP0036-A (025.90011.0001)
138	4.32	PIFA	1.27				1.27	5.59	12.14	DC330017L00
139	4.32	PIFA	1.25				1.25	5.57	12.14	DC330017G10
140	4.32	PIFA	1.60				1.60	5.92	12.14	DC330017M00
141	4.32	PIFA	2.85				2.85	7.17	12.14	30017J10
142	4.32	PIFA	1.55				1.55	5.87	12.14	81.EKU15.G59
143	4.32	PIFA	0.83				0.83	5.15	12.14	T-543-9021015-2
144	4.32	PIFA	-0.70				-0.70	3.62	12.14	APP6Y-700015
145	4.32	PIFA	1.33				1.33	5.65	12.14	SE-ECB14-001
146	4.32	PIFA	0.42				0.42	4.74	12.14	260-24033

147	4.32	PIFA	-0.09				-0.09	4.23	12.14	F.0G.FH-6004-001
148	4.32	PIFA	1.91				1.91	6.23	12.14	81.EKU15.G61
149	4.32	PIFA	1.30				1.30	5.62	12.14	81.EKU15.G56
150	4.32	PIFA	1.86				1.86	6.18	12.14	T-543-9021017-1
151	4.32	PIFA	0.75				0.75	5.07	12.14	SE-ECB15-002
152	4.32	PIFA	1.00				1.00	5.32	12.14	APP6Y-700022
153	4.32	PIFA	1.75				1.75	6.07	12.14	260-24035
154	4.32	PIFA	-0.32				-0.32	4.00	12.14	F.0G.FH-6005-002
155	4.32	PIFA	1.97				1.97	6.29	12.14	81.EKU15.G58
156	4.32	PIFA	1.94				1.94	6.26	12.14	81.EKU15.G53
157	4.32	PIFA	1.95				1.95	6.27	12.14	T-543-9021010-1
158	4.32	PIFA	1.02				1.02	5.34	12.14	SE-ECWE0-002
159	4.32	PIFA	1.34				1.34	5.66	12.14	APP6Y-700020
160	4.32	PIFA	1.19				1.19	5.51	12.14	0ACCN013035N
161	4.32	PIFA	1.29				1.29	5.61	12.14	SE-ECVY1-001
162	4.32	PIFA	1.80				1.80	6.12	12.14	SE-ECVY2-001
163	4.32	PIFA	1.98				1.98	6.30	12.14	T-543-9021012-A
164	4.32	PIFA	-0.07				-0.07	4.25	12.14	0ACCN013036
165	4.32	PIFA	1.31				1.31	5.63	12.14	QTF6-EQL0202A
166	4.32	PIFA	0.56				0.56	4.88	12.14	QTF6-EQL0102A
167	4.32	PIFA	2.07				2.07	6.39	12.14	821-101-01211090
168	4.32	PIFA	2.85				2.85	7.17	12.14	260-23557
169	4.32	PIFA	0.77				0.77	5.09	12.14	025.9002M.0011
170	4.32	PIFA	1.03				1.03	5.35	12.14	025.9002M.0001
171	4.32	PIFA	-0.60				-0.60	3.72	12.14	025.90027.0011
172	4.32	PIFA	0.62				0.62	4.94	12.14	025.90026.0001
173	4.32	PIFA	1.63				1.63	5.95	12.14	025.9001A.0001 (640-INNEP0031-A)
174	4.32	PIFA	0.82				0.82	5.14	12.14	025.90017.0001 (81.EEW15.GEL)
175	4.32	PIFA	-0.36				-0.36	3.96	12.14	SK970W/IPB02+A
176	4.32	PIFA	1.98				1.98	6.30	12.14	T-543-9021011-A
177	4.32	PIFA	2.27				2.27	6.59	12.14	79011HU00-600-G
178	4.32	PIFA	1.06				1.06	5.38	12.14	DQ600856200/ ANTA0HQ08562WLGp4
179	4.32	PIFA	-0.57				-0.57	3.75	12.14	DQ6V5NS3300 (WDAN-HQV5NS33-DH)
180	4.32	PIFA	-0.07				-0.07	4.25	12.14	DQ6V5NS3100 (WDAN-HQV5NS31-DH)
181	4.32	PIFA	0.30				0.30	4.62	12.14	DQ6V5TS3300 (WDAN-HQV5TS33-DH)
182	4.32	PIFA	2.25				2.25	6.57	12.14	DQ6V5TS3100 (WDAN-HQV5TS31-DH)
183	4.32	PIFA	0.48				0.48	4.80	12.14	DQ6V7NS3300 (WDAN-HQV7NS33-DH)
184	4.32	PIFA	-0.89				-0.89	3.43	12.14	DQ6V7NS3100 (WDAN-HQV7NS31-DH)
185	4.32	PIFA	2.34				2.34	6.66	12.14	DQ6V7TS3100 (WDAN-HQV7TS31-DH)
186	4.32	PIFA	1.44				1.44	5.76	12.14	DQ6V4NS3300 (WDAN-HQV4NS33-DH)
187	4.32	PIFA	-0.93				-0.93	3.39	12.14	DQ6V4NS3100 (WDAN-HQV4NS31-DH)
188	4.32	PIFA	3.36				3.36	7.68	12.14	DQ6V4TS3300 (WDAN-HQV4TS33-DH)
189	4.32	PIFA	2.39				2.39	6.71	12.14	DQ6V4TS3100 (WDAN-HQV4TS31-DH)
190	4.32	PIFA	2.89				2.89	7.21	12.14	DQ6V7TS3300 (WDAN-HQV7TS33-DH)
191	4.32	PIFA	-0.97				-0.97	3.35	12.14	DQ613A00032 (PANT13A00008-6)
192	4.32	PIFA	-0.03				-0.03	4.29	12.14	DQ613A00033 (PANT13A00007-9)
193	4.32	PIFA	-0.43				-0.43	3.89	12.14	DQ613A00024 (PANT13A00008-8)
194	4.32	PIFA	0.29				0.29	4.61	12.14	DQ613A00025 (PANT13A00008-2)
195	4.32	PIFA	0.40				0.40	4.72	12.14	DQ613A00028 (PANT13A00008-4)
196	4.32	PIFA	0.93				0.93	5.25	12.14	DQ613A00029 (PANT13A00007-7)
197	4.32	PIFA	0.04				0.04	4.36	12.14	DC33001H800 / T-543-9001008-1
198	4.32	PIFA	2.24				2.24	6.56	12.14	DC33001H910 / 81EAAK15.GCD
199	4.32	PIFA	0.67				0.67	4.99	12.14	DC33001HB00 / ANTA0HC08231WLAN1
200	4.32	PIFA	-1.36				-1.36	2.96	12.14	603680110902 (APPBP-700479)
201	4.32	PIFA	1.05				1.05	5.37	12.14	603680111001 (81EAAK15.G67)
202	4.32	PIFA	0.93				0.93	5.25	12.14	DC33001HF00/ SE-ECS41-001
203	4.32	PIFA	0.74				0.74	5.06	12.14	DC33001HE00 / T-543-9001007-1
204	4.32	PIFA	0.39				0.39	4.71	12.14	DC33001HD00/ 81EAAK15.GCA
205	4.32	PIFA	1.30				1.30	5.62	12.14	DQ601001400
206	4.32	PIFA	0.72				0.72	5.04	12.14	DQ601001500
207	4.32	PIFA	1.86				1.86	6.18	12.14	DQ601001200
208	4.32	PIFA	1.27				1.27	5.59	12.14	DQ601001300
209	4.32	PIFA	2.23				2.23	6.55	12.14	DQ601001800
210	4.32	PIFA	0.18				0.18	4.50	12.14	DQ601001900
211	4.32	PIFA	2.23				2.23	6.55	12.14	DQ601001700
212	4.32	PIFA	0.38				0.38	4.70	12.14	DQ601001000
213	4.32	PIFA	1.60				1.60	5.92	12.14	DQ601001100
214	4.32	PIFA	1.62				1.62	5.94	12.14	DQ601000800
215	4.32	PIFA	2.20				2.20	6.52	12.14	DQ601000900
216	4.32	PIFA	0.51				0.51	4.83	12.14	603680121903 (APP6P-701022)
217	4.32	PIFA	-0.55				-0.55	3.77	12.14	603680121901 (SE-EISW4-001)
218	4.32	PIFA	2.23				2.23	6.55	12.14	DQ601001600
219	4.32	PIFA	2.59				2.59	6.91	12.14	DQ6R15G1000 (81EAAR15.G10)
220	4.32	PIFA	0.83				0.83	5.15	12.14	DQ6R15G5400 (81EAAR15.G54)
221	4.32	PIFA	-0.14				-0.14	4.18	12.14	DQ6R15G1100 (81EAAR15.G11)
222	4.32	PIFA	-0.67				-0.67	3.65	12.14	DQ6R15G1200 (81EAAR15.G12)
223	4.32	PIFA	0.96				0.96	5.28	12.14	DQ6R15G1300 (81EAAR15.G13)
224	4.32	PIFA	1.22				1.22	5.54	12.14	DQ6R15G1400 (81EAAR15.G14)
225	4.32	PIFA	1.99				1.99	6.31	12.14	DQ6R15G1500 (81EAAR15.G15)
226	4.32	PIFA	1.52				1.52	5.84	12.14	DQ6R15G1600 (81EAAR15.G16)
227	4.32	PIFA	1.99				1.99	6.31	12.14	DQ6R15G1700 (81EAAR15.G17)
228	4.32	PIFA	2.45				2.45	6.77	12.14	DQ6R15G1800 (81EAAR15.G18)
229	4.32	PIFA	0.80				0.80	5.12	12.14	DQ6R15G5600 (81EAAR15.G56)
230	4.32	PIFA	2.33				2.33	6.65	12.14	DQ6R15G5700 (81EAAR15.G57)
231	4.32	PIFA	2.13				2.13	6.45	12.14	DQ6R15G0900 (81EAAR15.G09)
232	4.32	PIFA	1.48				1.48	5.80	12.14	1750007265-01
233	4.32	PIFA	-0.49				-0.49	3.83	12.14	SK210W/IPB03+A
234	4.32	PIFA	1.80				1.80	6.12	12.14	0ACCL014001N
235	4.32	PIFA	2.45				2.45	6.77	12.14	SK510W/IPB01+C
236	4.32	PIFA	1.67				1.67	5.99	12.14	0ACCLE14001N
237	4.32	PIFA	0.25				0.25	4.57	12.14	81.EKX15.G23
238	4.32	PIFA	1.51				1.51	5.83	12.14	SE-ECS30-001
239	4.32	PIFA	2.51				2.51	6.83	12.14	T-543-9021024-1
240	4.32	PIFA	0.75				0.75	5.07	12.14	UJ2004-P3-340
241	4.32	PIFA	0.97				0.97	5.29	12.14	SE-ECS13-001
242	4.32	PIFA	1.51				1.51	5.83	12.14	CAN4313LC0682WX1
243	4.32	PIFA	1.95				1.95	6.27	12.14	IAH-140039(25CA0-180002-J3R)
244	4.32	PIFA	1.31				1.31	5.63	12.14	DQ602356400
245	4.32	PIFA	-0.73				-0.73	3.59	12.14	DQ613A00016

246	4.32	PIFA	-0.18				-0.18	4.14	12.14	260-23495
247	4.32	PIFA	2.01				2.01	6.33	12.14	81.EEW15.GDA
248	4.32	PIFA	-0.13				-0.13	4.19	12.14	260-23497
249	4.32	PIFA	1.45				1.45	5.77	12.14	81.EEW15.GDD
250	4.32	PIFA	-0.20				-0.20	4.12	12.14	603680121903(APP6P-701022)
251	4.32	PIFA	-0.21				-0.21	4.11	12.14	603680121801(SE-EISW4-002)
252	4.32	PIFA	-1.73				-1.73	2.59	12.14	603680123701(APP6P-701061)
253	4.32	PIFA	0.94				0.94	5.26	12.14	603680123603(SE-EISW5-002)
254	4.32	PIFA	-0.48				-0.48	3.84	12.14	DC33001K300(81EAAR15.G38)
255	4.32	PIFA	0.29				0.29	4.61	12.14	DC33001JV10/APP6P-701104
256	4.32	PIFA	0.81				0.81	5.13	12.14	DC33001K000/F.OG.FP-6003-001
257	4.32	PIFA	0.30				0.30	4.62	12.14	DC33001J200/ANTA0HC08601WLAN4
258	4.32	PIFA	1.16				1.16	5.48	12.14	DC33001JU00/APP6P-701101
259	4.32	PIFA	-1.82				-1.82	2.50	12.14	DC33001KN00/F.OG.FP-6002-001
260	4.32	PIFA	1.09				1.09	5.41	12.14	DC33001K210(81EAAR15.G31)
261	4.32	PIFA	-0.35				-0.35	3.97	12.14	DC33001JV10/ANTA0HC08591WLAN3
262	4.32	PIFA	0.46				0.46	4.78	12.14	DC33001K400(81EAAR15.G42)
263	4.32	PIFA	1.45				1.45	5.77	12.14	DC33001JX00/APP6P-701107
264	4.32	PIFA	1.63				1.63	5.95	12.14	DC33001KP10/F.OG.FP-6004-002
265	4.32	PIFA	1.58				1.58	5.90	12.14	DC33001K000/ANTA0HC08611WLAN2
266	4.32	PIFA	-0.76				-0.76	3.56	12.14	DC33001K110(81EAAR15.G25)
267	4.32	PIFA	-0.63				-0.63	3.69	12.14	DC33001JT10/APP6P-701096
268	4.32	PIFA	-0.01				-0.01	4.31	12.14	DC33001KM10/F.OG.FP-6001-002
269	4.32	PIFA	-2.06				-2.06	2.26	12.14	DC33001JW00/ANTA0HC08581WLAN4
270	4.32	PIFA	0.92				0.92	5.24	12.14	DQ6R15G7300(81EAAR15.G73)
271	4.32	PIFA	1.57				1.57	5.89	12.14	L01RF051-DT-R
272	4.32	PIFA	1.70				1.70	6.02	12.14	L01RF054-DT-R
273	4.32	PIFA	0.82				0.82	5.14	12.14	DC330160310
274	4.32	PIFA	1.83				1.83	6.15	12.14	DC330160410
275	4.32	PIFA	0.61				0.61	4.93	12.14	APP6P-701052
276	4.32	PIFA	1.15				1.15	5.47	12.14	APP6P-701188
277	4.32	PIFA	2.74				2.74	7.06	12.14	IA130052
278	4.32	PIFA	2.75				2.75	7.07	12.14	IA-130380
279	4.32	PIFA	1.87				1.87	6.19	12.14	F.OG.FS-6004-001(025.9003S.0001)
280	4.32	PIFA	1.94				1.94	6.26	12.14	025.9003R.0001(81.EBC15.GAJ)
281	4.32	PIFA	0.49				0.49	4.81	12.14	L01RF050-YT-R
282	4.32	PIFA	-1.90				-1.90	2.42	12.14	L01RF058-DT-R
283	4.32	PIFA	1.70				1.70	6.02	12.14	L01RF054-DT-R
284	4.32	PIFA	1.94				1.94	6.26	12.14	DC330017N00
285	4.32	PIFA	1.95				1.95	6.27	12.14	DC330017P10
286	4.32	PIFA	2.39				2.39	6.71	12.14	DC330159910
287	4.32	PIFA	1.50				1.50	5.82	12.14	DC330017S10
288	4.32	PIFA	2.05				2.05	6.37	12.14	DC330017T00
289	4.32	PIFA	1.38				1.38	5.70	12.14	DC330160110
290	4.32	PIFA	-0.62				-0.62	3.70	12.14	DQ600912100/ ANTA0HQ09121WLAN1
291	4.32	PIFA	1.81				1.81	6.13	12.14	DQ602360500
292	4.32	PIFA	1.82				1.82	6.14	12.14	APP6P-701194
293	4.32	PIFA	2.73				2.73	7.05	12.14	IAH-140030
294	4.32	PIFA	2.98				2.98	7.30	12.14	IAH-140030
295	4.32	PIFA	1.82				1.82	6.14	12.14	APP6P-701194
296	4.32	PIFA	2.23				2.23	6.55	12.14	SK330VIPB01+B
297	4.32	PIFA	1.74				1.74	6.06	12.14	SE-ECA10-001
298	4.32	PIFA	2.66				2.66	6.98	12.14	DC33001M000 / T-543-9021035-1
299	4.32	PIFA	1.61				1.61	5.93	12.14	SE-ECVY3-001
300	4.32	PIFA	1.79				1.79	6.11	12.14	T-543-9021013-A
301	4.32	PIFA	0.52				0.52	4.84	12.14	0ACCN013037
302	4.32	PIFA	-1.9				-1.90	2.42	12.14	L01RF058-DT-R
303	4.32	PIFA	1.7				1.70	6.02	12.14	L01RF054-DT-R
304	4.32	PIFA	0.28				0.28	4.60	12.14	DC330018500
305	4.32	PIFA	0.29				0.29	4.61	12.14	DC330018300
306	4.32	PIFA	1.92				1.92	6.24	12.14	DC330018100
307	4.32	PIFA	1.7				1.70	6.02	12.14	DC330018200
308	4.32	PIFA	-0.59				-0.59	3.73	12.14	DC330018900
309	4.32	PIFA	-0.28				-0.28	4.04	12.14	DC330018710
310	4.32	PIFA	1.28				1.28	5.60	12.14	DQ602361100
311	4.32	PIFA	2.55				2.55	6.87	12.14	DQ6R15GBP00 (81EAAR15.GBP)
312	4.32	PIFA	-0.86				-0.86	3.46	12.14	DQ609221W00 / ANTA0DP09221WLAN2
313	4.32	PIFA	-0.64				-0.64	3.68	12.14	DQ614A00011 (PANT14A00003-2)
314	4.32	PIFA	-1.48				-1.48	2.84	12.14	DQ6R15GAB00 (81EAAR15.GAB)
315	4.32	PIFA	1.09				1.09	5.41	12.14	DQ6R15GAA00 (81EAAR15.GAA)
316	4.32	PIFA	1.85				1.85	6.17	12.14	DC33001ID60/81EAAR15.GBV
317	4.32	PIFA	-2.16				-2.16	2.16	12.14	DC33001ID60 ; 81EAAR15.GBV
318	4.32	PIFA	-1.62				-1.62	2.70	12.14	DQ600917200 / ANTA0HQ9172WLAN1
319	4.32	PIFA	-0.88				-0.88	3.44	12.14	81EAAR15.GBL (DQ6R15GBL00)
320	4.32	PIFA	-1.62				-1.62	2.70	12.14	DQ600917100 / ANTA0HQ9171WLAN3
321	4.32	PIFA	2.21				2.21	6.53	12.14	DQ602361300
322	4.32	PIFA	-0.86				-0.86	3.46	12.14	DQ609222W00 / ANTA0DP09222WLAN3
323	4.32	PIFA	0.39				0.39	4.71	12.14	DQ6R15GCB00 (81EAAR15.GCB)
324	4.32	PIFA	-1.46				-1.46	2.86	12.14	DQ602356200
325	4.32	PIFA	-0.24				-0.24	4.08	12.14	DQ613A00018
326	4.32	PIFA	0.84				0.84	5.16	12.14	RFA-25-G153C-70-100
327	4.32	PIFA	-2.92				-2.92	1.40	12.14	DQ6R15GBS00 (81EAAR15.GBS)
328	4.32	PIFA	0.12				0.12	4.44	12.14	APP6P- 701300
329	4.32	PIFA	2.35				2.35	6.67	12.14	260-27068
330	4.32	PIFA	0.43				0.43	4.75	12.14	DC330018520
331	4.32	PIFA	2.2				2.20	6.52	12.14	APP6P-701233
332	4.32	PIFA	1.37				1.37	5.69	12.14	6-23-7P650-041
333	4.32	PIFA	-0.68				-0.68	3.64	12.14	SKP65WIPB01+A
334	4.32	PIFA	0.05				0.05	4.37	12.14	SKP75WIPB02+A
335	4.32	PIFA	0.89				0.89	5.21	12.14	SKP77WIPB01+A
336	4.32	PIFA	-2.3				-2.30	2.02	12.14	DC33001NE00/ 0ACCN014016N
337	4.32	PIFA	2.38				2.38	6.70	12.14	DC33001ND00/ 210-02008
338	4.32	PIFA	1.53				1.53	5.85	12.14	DC33001NG10/ T-543-9021060-2
339	4.32	PIFA	-1.13				-1.13	3.19	12.14	APP6Y-700151
340	4.32	PIFA	0.28				0.28	4.60	12.14	0ACCN014011N
341	4.32	PIFA	1.21				1.21	5.53	12.14	260-24046
342	4.32	PIFA	1.31				1.31	5.63	12.14	1415-040A000/ ANTA0Z09021WLAN1
343	4.32	PIFA	0.18				0.18	4.50	12.14	SKSU2WIPB01+A
344	4.32	PIFA	0.3				0.30	4.62	12.14	SK94AWIPB01+A

345	4.32	PIFA	0.6			0.60	4.92	12.14	SK95AWIPB01+A
346	4.32	PIFA	1.18			1.18	5.50	12.14	DC330018220
347	4.32	PIFA	-1.13			-1.13	3.19	12.14	DC330019500 / PANT12A00002-5
348	4.32	DIPOLE	2.9			2.90	7.22	12.14	821-111-02660020
349	4.32	PIFA	2.19			2.19	6.51	12.14	DQ602327700
350	4.32	PIFA	-0.95			-0.95	3.37	12.14	DQ60QTL101
351	4.32	PIFA	2.97			2.97	7.29	12.14	GEPH-023
352	4.32	PIFA	0.23			0.23	4.55	12.14	SKN15WIPB01+B
353	4.32	PIFA	2			2.00	6.32	12.14	6-23-7N170-010
354	4.32	PIFA	1.08			1.08	5.40	12.14	DC33001NS00 / APP6Y-700054
355	4.32	PIFA	0.94			0.94	5.26	12.14	260-24055
356	4.32	PIFA	-0.45			-0.45	3.87	12.14	DC33001O600 (81EAA515.G72)
357	4.32	DIPOLE	2.59			2.59	6.91	12.14	25CA0-260000-A5S
358	4.32	DIPOLE	2			2.00	6.32	12.14	RFA-25-T42-M10-N
359	4.32	PIFA	0.5			0.50	4.82	12.14	PANT14A00008-5
360	4.32	PIFA	1.46			1.46	5.78	12.14	DQ690210203
361	4.32	PIFA	-0.64			-0.64	3.68	12.14	DQ6G15G7900
362	4.32	PIFA	0.79			0.79	5.11	12.14	DQ690210201
363	4.32	PIFA	0.12			0.12	4.44	12.14	DQ6G15G8100
364	4.32	PIFA	1.97			1.97	6.29	12.14	640-INNEP0041-A
365	4.32	PIFA	1.12			1.12	5.44	12.14	RFA-25-G153-70-130AU (25CA0-130000-A5S)
366	4.32	PIFA	1.52			1.52	5.84	12.14	F.0G.FN-6027-001
367	4.32	PIFA	-0.54			-0.54	3.78	12.14	DC33001N50L (APP6Y-700179)
368	4.32	PIFA	0.08			0.08	4.40	12.14	81EAAZ15.13
369	4.32	PIFA	-0.11			-0.11	4.21	12.14	ANTA0DC09362WLAN1 / DC33001N40L
370	4.32	PIFA	0.24			0.24	4.56	12.14	F.0G.FN-6029-001
371	4.32	PIFA	0.01			0.01	4.33	12.14	DC33001N60L (APP6Y-700 173)
372	4.32	PIFA	0.19			0.19	4.51	12.14	F.0G.FN-6028-001
373	4.32	PIFA	-1.42			-1.42	2.90	12.14	DC33001N6 2L (APP6Y-700175)
374	4.32	PIFA	-1.01			-1.01	3.31	12.14	ANTA0DC09371WLAN1 / DC33001N70L
375	4.32	PIFA	-0.62			-0.62	3.70	12.14	ANTA0DC09371WLAN3/ DC33001N72L
376	4.32	PIFA	-0.57			-0.57	3.75	12.14	DC33001N11L (APP6Y -700178)
377	4.32	PIFA	1.25			1.25	5.57	12.14	81EAAZ15.G16
378	4.32	PIFA	1.2			1.20	5.52	12.14	F.0G.FN-6026-001
379	4.32	PIFA	-0.44			-0.44	3.88	12.14	ANTA0DC09352WLAN2 /DC33001N01L
380	4.32	PIFA	0.78			0.78	5.10	12.14	DC33001N10L (APP6Y-700177)
381	4.32	PIFA	2.34			2.34	6.66	12.14	81EAAZ15.G15
382	4.32	PIFA	2			2.00	6.32	12.14	F.0G.FN-6025-001
383	4.32	PIFA	-0.07			-0.07	4.25	12.14	ANTA0DC09352WLAN1 /DC33001N00L
384	4.32	PIFA	-1.55			-1.55	2.77	12.14	APP6Y-700245
385	4.32	PIFA	1.12			1.12	5.44	12.14	DQ614A00004
386	4.32	PIFA	1.25			1.25	5.57	12.14	APP6P-701144
387	4.32	PIFA	2.77			2.77	7.09	12.14	81EAA15.G01
388	4.32	PIFA	0.01			0.01	4.33	12.14	APP6P-701318
389	4.32	PIFA	-0.46			-0.46	3.86	12.14	0ACCN014025N
390	4.32	PIFA	0.97			0.97	5.29	12.14	81.EKY15.G25
391	4.32	PIFA	1.14			1.14	5.46	12.14	DC33001PQ00 /APP6P-70 1319
392	4.32	PIFA	1.41			1.41	5.73	12.14	T-543 -9021072-1
393	4.32	PIFA	1.94			1.94	6.26	12.14	81.EKY15.G26
394	4.32	PIFA	0.07			0.07	4.39	12.14	DQ609532W00/ ANTA0HQ09532WLAN
395	4.32	PIFA	-0.43			-0.43	3.89	12.14	DQ60APP6Y11 (APP6Y-700229)
396	4.32	PIFA	0.87			0.87	5.19	12.14	025.9009N.0011 (APP6Y-700236)
397	4.32	PIFA	-0.12			-0.12	4.20	12.14	025.9009N.0011 (APP6Y-700240)
398	4.32	PIFA	2.71			2.71	7.03	12.14	81.EEW15.GGN
399	4.32	PIFA	1.12			1.12	5.44	12.14	260-23619
400	4.32	PIFA	-0.29			-0.29	4.03	12.14	ADM6Y-100001
401	4.32	PIFA	-0.54			-0.54	3.78	12.14	603680152301 (APP6Y- 700323)
402	4.32	PIFA	-0.66			-0.66	3.66	12.14	603680150601 (260-24067)
403	4.32	PIFA	0.51			0.51	4.83	12.14	603680152501 (ANTA0HV10181WLAN2)
404	4.32	PIFA	0.05			0.05	4.37	12.14	025.9008Y.0001 (81EAAR15.GBW)
405	4.32	PIFA	1.21			1.21	5.53	12.14	025.9009A.0011 (81EAAR15.GCP)
406	4.32	PIFA	1.21			1.21	5.53	12.14	DQ602363100 (260-23631)
407	4.32	PIFA	2.32			2.32	6.64	12.14	DQ602363200 (260-23632)
408	4.32	PIFA	2			2.00	6.32	12.14	DQ602363300 (260-23633)
409	4.32	PIFA	2.17			2.17	6.49	12.14	DQ602362600 (260-23626)
410	4.32	PIFA	-1.25			-1.25	3.07	12.14	DQ602362900 (260-23629)
411	4.32	PIFA	-0.73			-0.73	3.59	12.14	DQ602363000 (260-23630)
412	4.32	PIFA	-0.92			-0.92	3.40	12.14	504993-001
413	4.32	PIFA	-0.81			-0.81	3.51	12.14	807669-001(for M.2 WLAN connector)
414	4.32	PIFA	-0.92			-0.92	3.40	12.14	600050-001
415	4.32	PIFA	-0.81			-0.81	3.51	12.14	807669-001 (for M.2 WLAN connector)
416	4.32	PIFA	0.29			0.29	4.61	12.14	DQ613A00025 (PANT13A00008-2)
417	4.32	PIFA	0.18			0.18	4.50	12.14	DQ614A00019 / PANT14A00005-2
418	4.32	PIFA	2.47			2.47	6.79	12.14	DQ614A00021 / PANT14A00005-3
419	4.32	PIFA	-0.05			-0.05	4.27	12.14	DQ614A00017 (PANT14A00005-8)
420	4.32	PIFA	0.32			0.32	4.64	12.14	025.9009H.0001 (APP6Y-700219)
421	4.32	PIFA	2.3			2.30	6.62	12.14	81.EEW15.GJJ
422	4.32	PIFA	2.65			2.65	6.97	12.14	260-23627
423	4.32	PIFA	0.18			0.18	4.50	12.14	DQ601001900 (210-10019)
424	4.32	PIFA	2.23			2.23	6.55	12.14	DQ601001700 (210-10017)
425	4.32	PIFA	-0.2			-0.20	4.12	12.14	DQ601006100 (210-10061)
426	4.32	PIFA	-0.15			-0.15	4.17	12.14	DQ601006500 (210-10065)

427	4.32	PIFA	0.25			0.25	4.57	12.14	DQ601006300 (210-10063)
428	4.32	PIFA	0.01			0.01	4.33	12.14	DQ601005900 (210-10059)
429	4.32	PIFA	0.18			0.18	4.50	12.14	DQ601006900 ((210-10069)
430	4.32	PIFA	1.14			1.14	5.46	12.14	DQ601006700 ((210-10067)
431	4.32	PIFA	-0.2			-0.20	4.12	12.14	025.9009J.0001 (81EAAR15.GCU)
432	4.32	PIFA	-1.67			-1.67	2.65	12.14	025.9009N.0001 (81EAAR15.GDL)
433	4.32	PIFA	1.52			1.52	5.84	12.14	DQ6R15G1600 (81EAAR15.G16)
434	4.32	PIFA	2.45			2.45	6.77	12.14	DQ6R15G1800 (81EAAR15.G18)
435	4.32	PIFA	-3.42			-3.42	0.90	12.14	DQ6R15GEB00 (81EAAR15.GEB)
436	4.32	PIFA	0.1			0.10	4.42	12.14	DQ600945100 /ANTA0HQ09451WLAN1
437	4.32	PIFA	1.04			1.04	5.36	12.14	DQ600946100 /ANTA0HQ09461WLAN1
438	4.32	PIFA	-1.18			-1.18	3.14	12.14	DQ600947100/ ANTA0HQ09471WLAN1
439	4.32	PIFA	1.12			1.12	5.44	12.14	DQ600948100/ ANTA0HQ09481WLAN1
440	4.32	PIFA	0.5			0.50	4.82	12.14	0ACAR012004N
441	4.32	PIFA	0.67			0.67	4.99	12.14	25.90AKI.001 (81.EJP15.G31)
442	4.32	PIFA	1.93			1.93	6.25	12.14	APP6Y-700184 (HP: 800216-001)
443	4.32	PIFA	2.08			2.08	6.40	12.14	APP6Y-700185 (HP: 800217-001)
444	4.32	PIFA	0.75			0.75	5.07	12.14	WA-M-LB-02-063 (HP: 800216-001)
445	4.32	PIFA	2.26			2.26	6.58	12.14	WA-M-LB-02-064 (HP: 800217-001)
446	4.32	PIFA	1.97			1.97	6.29	12.14	APP6Y-700162 (HP: 800114-001)
447	4.32	PIFA	2.02			2.02	6.34	12.14	APP6Y-700163 (HP: 800115-001)
448	4.32	PIFA	1.2			1.20	5.52	12.14	WA-M-LB-02-050(HP: 800114-001)
449	4.32	PIFA	1.59			1.59	5.91	12.14	WA-M-LB-02-052(HP: 800115-001)
450	4.32	PIFA	1.97			1.97	6.29	12.14	APP6Y-700162 (HP: 800114-001)
451	4.32	PIFA	1.93			1.93	6.25	12.14	APP6Y-700169 (HP: 800117-001)
452	4.32	PIFA	1.91			1.91	6.23	12.14	APP6Y-700206 (HP: 800120-001)
453	4.32	PIFA	1.9			1.90	6.22	12.14	APP6Y-700208 (HP: 800122-001)
454	4.32	PIFA	1.2			1.20	5.52	12.14	WA-M-LB-02-050(HP: 800114-001)
455	4.32	PIFA	-1.31			-1.31	3.01	12.14	WA-M-LB-02-062(HP: 800117-001)
456	4.32	PIFA	2.54			2.54	6.86	12.14	WA-M-LB-02-071(HP: 800120-001)
457	4.32	PIFA	-0.2			-0.20	4.12	12.14	WA-M-LB-02-072(HP: 800122-001)
458	4.32	PIFA	2.79			2.79	7.11	12.14	APP6Y-700330
459	4.32	PIFA	2.6			2.60	6.92	12.14	WA-F-LB-02-039
460	4.32	PIFA	0.3			0.30	4.62	12.14	SK94LWIPB01+A
461	4.32	PIFA	1.8			1.80	6.12	12.14	0ACCL015001N
462	4.32	PIFA	2.45			2.45	6.77	12.14	SK51LWIPB01+A
463	4.32	PIFA	0.6			0.60	4.92	12.14	SK95LWIPB01+C
464	4.32	PIFA	0.6			0.60	4.92	12.14	SK95LWIPB02+A
465	4.32	PIFA	0.2			0.20	4.52	12.14	SK97LWIPB01+B
466	4.32	PIFA	1.36			1.36	5.68	12.14	APP6Y-700045
467	4.32	PIFA	-1.36			-1.36	2.96	12.14	812046-001 (81XCAE15.G31)
468	4.32	PIFA	-0.93			-0.93	3.39	12.14	ANTA0DC08372WLAN1
469	4.32	PIFA	-0.13			-0.13	4.19	12.14	APP6Y-700046
470	4.32	PIFA	2.54			2.54	6.86	12.14	210-10094
471	4.32	PIFA	0.67			0.67	4.99	12.14	WA-P-LB-02-243
472	4.32	PIFA	0.76			0.76	5.08	12.14	APP8P-700549
473	4.32	PIFA	-1.51			-1.51	2.81	12.14	ASAP /LA05RF818-1H
474	4.32	PIFA	-2.6			-2.60	1.72	12.14	LA05RF828-1H
475	4.32	PIFA	0.26			0.26	4.58	12.14	T-543-3010290-1
476	4.32	PIFA	-0.51			-0.51	3.81	12.14	APP6Y-700251
477	4.32	PIFA	-0.36			-0.36	3.96	12.14	WA-M-LBLB-04-013
478	4.32	PIFA	-1.33			-1.33	2.99	12.14	N1P6Y-200001
479	4.32	PIFA	0.61			0.61	4.93	12.14	N1P6Y-200000
480	4.32	PIFA	1.58			1.58	5.90	12.14	DQ6S15G7300 (81EAAS15.G73)
481	4.32	PIFA	0.45			0.45	4.77	12.14	DQ6S15G7700 (81EAAS15.G77)
482	4.32	PIFA	0.79			0.79	5.11	12.14	DQ601008900
483	4.32	PIFA	-0.88			-0.88	3.44	12.14	DQ601009700
484	4.32	PIFA	-0.44			-0.44	3.88	12.14	APP6Y-700261
485	4.32	PIFA	1.64			1.64	5.96	12.14	DQ6S15G7400
486	4.32	PIFA	-0.09			-0.09	4.23	12.14	DQ602353200 (260-23532)
487	4.32	PIFA	1.31			1.31	5.63	12.14	DQ602353000
488	4.32	PIFA	1.63			1.63	5.95	12.14	APM6Y-700007 / 025.9008D.0001
489	4.32	PIFA	1.5			1.50	5.82	12.14	025.9008I.0001 640-INNEP0045-A
490	4.32	PIFA	2.85			2.85	7.17	12.14	F.0G.FS -6012 -001 (025.9008S .0001)
491	4.32	PIFA	1.87			1.87	6.19	12.14	APM6Y-700009 / 025.9008F.0001
492	4.32	PIFA	1.06			1.06	5.38	12.14	640-INNEP0047-A / 025.9008K.0001
493	4.32	PIFA	1.21			1.21	5.53	12.14	F.0G.FS-6013-002 / 025.9008V.0001
494	4.32	PIFA	-1.72			-1.72	2.60	12.14	APP6Y-700167
495	4.32	PIFA	-0.84			-0.84	3.48	12.14	APP6Y-700171
496	4.32	PIFA	1.14			1.14	5.46	12.14	81EAAZ15.G02
497	4.32	PIFA	-0.7			-0.70	3.62	12.14	81EAAZ15.G03
498	4.32	PIFA	2.77			2.77	7.09	12.14	81EAAZ15.G01
499	4.32	PIFA	1.99			1.99	6.31	12.14	AMM8P-700038
500	4.32	PIFA	1.38			1.38	5.70	12.14	81EAAZ15.G19
501	4.32	PIFA	1.05			1.05	5.37	12.14	APP6Y-700170
502	4.32	PIFA	0.51			0.51	4.83	12.14	81EAAZ15.G35
503	4.32	PIFA	1.81			1.81	6.13	12.14	APP6Y-700119
504	4.32	PIFA	2.97			2.97	7.29	12.14	81EAAZ15.G25
505	4.32	PIFA	-0.08			-0.08	4.24	12.14	DC33001PH00/ APP6Y-700321
506	4.32	PIFA	0.54			0.54	4.86	12.14	DC33001PH10/ APP6Y-700322
507	4.32	PIFA	0.08			0.08	4.40	12.14	DC33001PJ00 / 260-24090
508	4.32	PIFA	1.17			1.17	5.49	12.14	DC33001PJ10 / 260-24089
509	4.32	PIFA	-0.01			-0.01	4.31	12.14	DC33001O700 / T-543-9001066-1
510	4.32	PIFA	-0.05			-0.05	4.27	12.14	DC33001O710 / T-543-9001067-1
511	4.32	PIFA	2.46			2.46	6.78	12.14	DC33001O900 (81EAAR15.GD9)
512	4.32	PIFA	2.34			2.34	6.66	12.14	DC33001O910 (81EAAR15.GEA)
513	4.32	PIFA	2.02			2.02	6.34	12.14	APP8Y-700001
514	4.32	PIFA	-0.35			-0.35	3.97	12.14	DC33001OC30 / APP8Y-700003
515	4.32	PIFA	-0.78			-0.78	3.54	12.14	DC33001OC00 / APP8Y-700006
516	4.32	PIFA	1.16			1.16	5.48	12.14	DC33001OM00/ 81EAAR15.GDU
517	4.32	PIFA	0.87			0.87	5.19	12.14	DC33001OC30 / 81EAAR15.GDZ
518	4.32	PIFA	0.82			0.82	5.14	12.14	DC33001OC00 / 81EAAR15.GD1
519	4.32	PIFA	-0.19			-0.19	4.13	12.14	DC33001OX00 / APP6Y-700269
520	4.32	PIFA	1.52			1.52	5.84	12.14	DC33001OX20 / APP6Y-700266
521	4.32	PIFA	-1.66			-1.66	2.66	12.14	DC33001OP00 / 81EAAR15.GD3
522	4.32	PIFA	-2.3			-2.30	2.02	12.14	DC33001OP20 / 81EAAR15.GD5
523	4.32	PIFA	0.92			0.92	5.24	12.14	APP6Y-700195(HP: 819542-001)
524	4.32	PIFA	2.66			2.66	6.98	12.14	WA-M-LB-10-014 (HP: 819542-001)
525	4.32	PIFA	1.75			1.75	6.07	12.14	APP6Y-700188(HP: 820321-001)

526	4.32	PIFA	0.78			0.78	5.10	12.14	WA-M-LB-10-013 (HP: 820321-001)
527	4.32	PIFA	0.24			0.24	4.56	12.14	504993-001 (81.EEW15.018)
528	4.32	PIFA	2.39			2.39	6.71	12.14	81EAX15.G36 (DC33001IG1L)
529	4.32	PIFA	-0.45			-0.45	3.87	12.14	F.0G.FN-6006-001
530	4.32	PIFA	2.08			2.08	6.40	12.14	DC33001IKOL (81EAX15.G03)
531	4.32	Dipole	1.26			1.26	5.58	12.14	497317-003 (81XCAA15.G03)
532	4.32	PIFA	-0.38			-0.38	3.94	12.14	ANTA0DC10322WLAN1/ DC33001IH1L
533	4.32	PIFA	3.48			3.48	7.80	12.14	1510-0137-0001
534	4.32	PIFA	-1.91			-1.91	2.41	12.14	WA-P-LB-02-239
535	4.32	PIFA	-0.9			-0.90	3.42	12.14	DQ602364300
536	4.32	PIFA	-0.24			-0.24	4.08	12.14	DQ615A00001
537	4.32	PIFA	0.28			0.28	4.60	12.14	SK240WIPB02+A
538	4.32	PIFA	1.56			1.56	5.88	12.14	ANP6Y-100026
539	4.32	PIFA	0.55			0.55	4.87	12.14	ANTA0ZP10391WLAN1
540	4.32	PIFA	-1.26			-1.26	3.06	12.14	F.0G.FH-6016-001
541	4.32	PIFA	-1.45			-1.45	2.87	12.14	ANTA0DC09352WLAN3/ DC33001N02L
542	4.32	PIFA	0.43			0.43	4.75	12.14	ANP6Y-200004
543	4.32	PIFA	1.29			1.29	5.61	12.14	DQ602364200
544	4.32	PIFA	-0.73			-0.73	3.59	12.14	DQ615A00002
545	4.32	PIFA	-2.1			-2.10	2.22	12.14	LA05RF838-1H
546	4.32	PIFA	-0.84			-0.84	3.48	12.14	LA05RF841-1H
547	4.32	PIFA	2.85			2.85	7.17	12.14	F.0G.FS-6012-001 / 025.9008S.0001
548	4.32	PIFA	1.98			1.98	6.30	12.14	025.900AW.0001 / APM6Y-700019
549	4.32	PIFA	1.87			1.87	6.19	12.14	640-INNEP0051-A / 025.900A1.0001
550	4.32	PIFA	1.86			1.86	6.18	12.14	F.0G.FS-6014-001 / 025.900A4.0001
551	4.32	PIFA	0.3			0.30	4.62	12.14	F.0G.FS-6015-002 / 025.900AY.0001
552	4.32	PIFA	1.94			1.94	6.26	12.14	ADM6Y-100003 / 025.9008B.0001
553	4.32	PIFA	0.03			0.03	4.35	12.14	F.0G.FS-6016-002 / 025.9008D.0001
554	4.32	PIFA	1.43			1.43	5.75	12.14	APM6Y-700017 / 025.90080.0001
555	4.32	PIFA	0.46			0.46	4.78	12.14	F.0G.FS-6016-002 / 025.90082.0001
556	4.32	PIFA	2.85			2.85	7.17	12.14	DQ6W15GH600 (81.EEW15.GH6)
557	4.32	PIFA	2.85			2.85	7.17	12.14	DQ6W15GH700 (81.EEW15.GH7)
558	4.32	PIFA	2.79			2.79	7.11	12.14	ANP6Y-100032
559	4.32	PIFA	2.56			2.56	6.88	12.14	WA-F-LB-02-048
560	4.32	PIFA	0.85			0.85	5.17	12.14	WA-P-LB-02-238
561	4.32	PIFA	0.17			0.17	4.49	12.14	WA-P-LB-02-252
562	4.32	PIFA	-1.64			-1.64	2.68	12.14	ADM6Y-100008
563	4.32	PIFA	1.94			1.94	6.26	12.14	DC33001RB00/ 81EAAR15.GDQ
564	4.32	PIFA	-0.82			-0.82	3.50	12.14	WA-P-LB-02-239
565	4.32	PIFA	-2.45			-2.45	1.87	12.14	DQ6R15GFK00 /81EAAR15.GFK
566	4.32	PIFA	1.48			1.48	5.80	12.14	025.9008Y.0001(81EAAR15.GBW)
567	4.32	PIFA	-0.32			-0.32	4.00	12.14	025.9008Y.0001(81EAAR15.GBW)
568	4.32	PIFA	2.85			2.85	7.17	12.14	DQ6W15GH600 (81.EEW15.GH6)
569	4.32	PIFA	2.85			2.85	7.17	12.14	DQ6W15GH700 (81.EEW15.GH7)
570	4.32	PIFA	1.34			1.34	5.66	12.14	603680133001 /ANTA0HV08821WLAN1
571	4.32	PIFA	-0.86			-0.86	3.46	12.14	603680143901 /ANTA0HV08821WLAN4
572	4.32	PIFA	-4.84			-4.84	-0.52	12.14	603680132901
573	4.32	PIFA	-2.39			-2.39	1.93	12.14	603680143701
574	4.32	PIFA	0.51			0.51	4.83	12.14	DQ602364100
575	4.32	PIFA	0.33			0.33	4.65	12.14	DQ602364200
576	4.32	PIFA	-0.04			-0.04	4.28	12.14	DQ601010300
577	4.32	PIFA	-1.29			-1.29	3.03	12.14	DQ601010500
578	4.32	PIFA	1.62			1.62	5.94	12.14	603680149201 (APP6Y-700303)
579	4.32	Dipole	1.41			1.41	5.73	12.14	603680149303 / 81EAAR15.GC5
580	4.32	PIFA	2.57			2.57	6.89	12.14	APP6Y-700180 (HP: 800210-001)
581	4.32	PIFA	2.08			2.08	6.40	12.14	APP6Y-700181 (HP: 800211-001)
582	4.32	PIFA	0.75			0.75	5.07	12.14	WA-C-LB-10-002 (HP: 800210-001)
583	4.32	PIFA	2.26			2.26	6.58	12.14	WA-C-LB-10-003 (HP: 800211-001)
584	4.32	PIFA	1.9			1.90	6.22	12.14	DQ6LB022600/ WA-P-LB-02-265
585	4.32	PIFA	-0.1			-0.10	4.22	12.14	DQ609991W00/ ANTA0HQ09991WLAN1
586	4.32	PIFA	-1.04			-1.04	3.28	12.14	603680148601 (APP6Y-700307)
587	4.32	PIFA	-1.39			-1.39	2.93	12.14	603680148703
588	4.32	PIFA	-1.56			-1.56	2.76	12.14	603680149601 (APP6Y-700312)
589	4.32	PIFA	-0.92			-0.92	3.40	12.14	603680148502/ ANTA0HV10161WLAN3
590	4.32	PIFA	0.98			0.98	5.30	12.14	025.900E0.0001 (81EAAR15.GFQ)
591	4.32	PIFA	-0.27			-0.27	4.05	12.14	025.900E1.0001 (81EAAR15.GFR)
592	4.32	PIFA	1.51			1.51	5.83	12.14	DQ60PLB0221 / WA-P-LB-02-245
593	4.32	PIFA	-0.01			-0.01	4.31	12.14	DQ614A00033 / PANT14A00007-7
594	4.32	PIFA	1.32			1.32	5.64	12.14	DQ601008201 / 210-10082
595	4.32	PIFA	-0.29			-0.29	4.03	12.14	DQ601007101/ ANTA0HQ10071WLAN1
596	4.32	PIFA	0.79			0.79	5.11	12.14	DQ60PLB0222 / WA-P-LB-02-246
597	4.32	PIFA	0.5			0.50	4.82	12.14	DQ614A00034 / PANT14A00007-8
598	4.32	PIFA	-0.03			-0.03	4.29	12.14	DQ601008400 / 210-10084
599	4.32	PIFA	0.35			0.35	4.67	12.14	DQ601009101/ ANTA0HQ10091WLAN1
600	4.32	PIFA	1.03			1.03	5.35	12.14	DQ60PLB0223 / WA-P-LB-02-247
601	4.32	Dipole	0.8			0.80	5.12	12.14	DQ60PLB0224 / WA-P-LB-02-248
602	4.32	PIFA	1.35			1.35	5.67	12.14	DQ614A00037 / PANT14A00007-5
603	4.32	PIFA	1.38			1.38	5.70	12.14	DQ614A00039 / PANT14A00007-6
604	4.32	PIFA	0.29			0.29	4.61	12.14	DQ601007700 / 210-10077
605	4.32	PIFA	1.65			1.65	5.97	12.14	DQ601007900 / 210-10079
606	4.32	Dipole	2.63			2.63	6.95	12.14	DQ600224900 / WA-P-LB-02-249
607	4.32	PIFA	1.17			1.17	5.49	12.14	DQ614A00043 / PANT14A00007-9
608	4.32	PIFA	1.32			1.32	5.64	12.14	DQ601008600 / 210-10086
609	4.32	PIFA	1.42			1.42	5.74	12.14	DQ60PLB0219 / WA-P-LB-02-241
610	4.32	PIFA	2.08			2.08	6.40	12.14	DQ60PLB0220 / WA-P-LB-02-242
611	4.32	PIFA	1.08			1.08	5.40	12.14	DQ614A00027 / PANT14A00007-3
612	4.32	PIFA	0.83			0.83	5.15	12.14	DQ614A00030 / PANT14A00007-4
613	4.32	PIFA	-1.07			-1.07	3.25	12.14	DQ601007200 / 210-10072
614	4.32	PIFA	0.02			0.02	4.34	12.14	DQ601007400 / 210-10074
615	4.32	PIFA	-1.42			-1.42	2.90	12.14	DQ609971W00 / ANTA0HQ09971WLAN1
616	4.32	PIFA	2.31			2.31	6.63	12.14	DQ601300012 (1510-0130-0020)
617	4.32	PIFA	2.31			2.31	6.63	12.14	DQ601300013 (1510-0130-0019)
618	4.32	PIFA	1.81			1.81	6.13	12.14	DC33001EL00
619	4.32	PIFA	3.02			3.02	7.34	12.14	DC33001EF10

620	4.32	PIFA	1.9				1.90	6.22	12.14	DQ6LB100400/ WA-P-LB-10-041
621	4.32	PIFA	-0.07				-0.07	4.25	12.14	0ACA0U15003N
622	4.32	PIFA	1.1				1.10	5.42	12.14	ANP6Y-200005
623	4.32	PIFA	-0.23				-0.23	4.09	12.14	ANTA02P09131WLAN3
624	4.32	PIFA	1.81				1.81	6.13	12.14	DC33001EN00
625	4.32	PIFA	1.05				1.05	5.37	12.14	DC33001EM10
626	4.32	PIFA	2.04				2.04	6.36	12.14	WA-P-LB-02-263
627	4.32	PIFA	0.4				0.40	4.72	12.14	SKP87WIPB01+A
628	4.32	PIFA	-0.78				-0.78	3.54	12.14	0ACCL015003N
629	4.32	PIFA	0.35				0.35	4.67	12.14	SKP87WIPB01+A
630	4.32	PIFA	1.59				1.59	5.91	12.14	SK51UWIPB02+B
631	4.32	PIFA	0.42				0.42	4.74	12.14	SK65RWIPB01+A
632	4.32	PIFA	1.48				1.48	5.80	12.14	SK67RWIPB01+A
633	4.32	PIFA	0.37				0.37	4.69	12.14	APM6Y-700020
634	4.32	PIFA	-0.59				-0.59	3.73	12.14	ANTS2M1-CDA01-EF
635	4.32	PIFA	-2.1				-2.10	2.22	12.14	ADP6Y-100003
636	4.32	PIFA	0.5				0.50	4.82	12.14	APP6Y-700127
637	4.32	PIFA	0.58				0.58	4.90	12.14	APP6Y-700140
638	4.32	Dipole	-1.36				-1.36	2.96	12.14	ANTP2M1-CZZ03-EF
639	4.32	Dipole	1.67				1.67	5.99	12.14	L01RF005-R
640	4.32	PIFA	-0.92				-0.92	3.40	12.14	ANP6Y-200013
641	4.32	PIFA	0.56				0.56	4.88	12.14	ANP6Y-200012
642	4.32	PIFA	1.71				1.71	6.03	12.14	DQ6R15GF100 (81EAA15.GF1)
643	4.32	PIFA	2.11				2.11	6.43	12.14	NC140BW2-L
644	4.32	PIFA	-2.60				-2.60	1.72	12.14	LA05RF828-1H
645	4.32	PIFA	-2.17				-2.17	2.15	12.14	LA05RF829-1H
646	4.32	PIFA	1.02				1.02	5.34	12.14	64451201900030
647	4.32	PIFA	0.26				0.26	4.58	12.14	T-543-3010290-1
648	4.32	PIFA	0.06				0.06	4.38	12.14	WA-P-LB-02-226
649	4.32	PIFA	1.53				1.53	5.85	12.14	WA-P-LB-02-226
650	4.32	PIFA	-0.07				-0.07	4.25	12.14	025.900F5.0001 (81.EAAZ15.G49)
651	4.32	PIFA	-2.10				-2.10	2.22	12.14	ADP6Y-100003
652	4.32	PIFA	2.38				2.38	6.70	12.14	APM6Y-700021
653	4.32	PIFA	-0.31				-0.31	4.01	12.14	SKP64WIPB01+A
654	4.32	PIFA	1.12				1.12	5.44	12.14	SK5DMWIPB02+A
655	4.32	PIFA	0.84				0.84	5.16	12.14	RFA-25-G153C-70-90
656	4.32	PIFA	-0.67				-0.67	3.65	12.14	RFA-25-G153D-70-185
657	4.32	PIFA	-2.04				-2.04	2.28	12.14	RFA-25-G176M-4-B-180
658	4.32	PIFA	0.70				0.70	5.02	12.14	LA05RF869-1H
659	4.32	PIFA	-0.37				-0.37	3.95	12.14	260-26087
660	4.32	PIFA	-2.60				-2.60	1.72	12.14	LA05RF847-1H
661	4.32	PIFA	0.57				0.57	4.89	12.14	WA-F-LBLB-04-036
662	4.32	PIFA	1.25				1.25	5.57	12.14	WA-P-LBLB-04-027
663	4.32	PIFA	1.54				1.54	5.86	12.14	WA-P-LB-02-324(025.900HF.0001)
664	4.32	PIFA	1.35				1.35	5.67	12.14	WA-P-LB-02-324(025.900HF.0001)
665	4.32	PIFA	0.31				0.31	4.63	12.14	WA-P-LB-02-330(025.900H3.0001)
666	4.32	PIFA	0.58				0.58	4.90	12.14	WA-P-LB-02-329(025.900GV.0001)
667	4.32	PIFA	-2.54				-2.54	1.78	12.14	6036B0168601(ADM6Y-100011)
668	4.32	PIFA	-0.16				-0.16	4.16	12.14	6036B0168701(ADM6Y-100012)
669	4.32	PIFA	0.66				0.66	4.98	12.14	6036B0172001(WA-M-LB-02-132)
670	4.32	PIFA	0.66				0.66	4.98	12.14	6036B0172001(WA-M-LB-02-132)
671	4.32	PIFA	0.68				0.68	5.00	12.14	6036B0172101(T-543-9001094-1)
672	4.32	PIFA	-1.88				-1.88	2.44	12.14	260-26102
673	4.32	PIFA	2.56				2.56	6.88	12.14	025.900GB.0001 (640 -INNEP0070-A)
674	4.32	PIFA	0.88				0.88	5.20	12.14	025.900HK.0001 (F.0G.FS-6026-002-00)
675	4.32	PIFA	-1.02				-1.02	3.30	12.14	DQ600033801
676	4.32	PIFA	1.79				1.79	6.11	12.14	DQ6415G0300
677	4.32	PIFA	0.22				0.22	4.54	12.14	6036B0154601
678	4.32	PIFA	0.98				0.98	5.30	12.14	6036B0155001
679	4.32	PIFA	-0.89				-0.89	3.43	12.14	6036B0154201
680	4.32	PIFA	0.5				0.50	4.82	12.14	6036B0153601
681	4.32	PIFA	0.56				0.56	4.88	12.14	DQ602364800
682	4.32	PIFA	2.85				2.85	7.17	12.14	DQ600034000
683	4.32	PIFA	2.54				2.54	6.86	12.14	DQ601074100
684	4.32	PIFA	-1.55				-1.55	2.77	12.14	DC33001UG00
685	4.32	PIFA	0.89				0.89	5.21	12.14	DC33001H910
686	4.32	PIFA	1.54				1.54	5.86	12.14	DC33001UD10
687	4.32	PIFA	0.83				0.83	5.15	12.14	T-543 -9001066-4
688	4.32	PIFA	1.24				1.24	5.56	12.14	DC33001UF00
689	4.32	PIFA	-0.54				-0.54	3.78	12.14	6036B0152301
690	4.32	PIFA	-0.66				-0.66	3.66	12.14	6036B0150601
691	4.32	PIFA	0.51				0.51	4.83	12.14	6036B0152501
692	4.32	PIFA	2.58				2.58	6.90	12.14	025.900JL.0001
693	4.32	PIFA	-0.42				-0.42	3.90	12.14	025.900JL.0001
694	4.32	PIFA	2.74				2.74	7.06	12.14	260-23654
695	4.32	PIFA	0.78				0.78	5.10	12.14	T-543-9001110-1
696	4.32	PIFA	2.06				2.06	6.38	12.14	260-23658
697	4.32	PIFA	0.35				0.35	4.67	12.14	T-543-9001112-2
698	4.32	PIFA	1.01				1.01	5.33	12.14	260-23655
699	4.32	PIFA	0.53				0.53	4.85	12.14	T-543-9001111-2
700	4.32	PIFA	-1.02				-1.02	3.30	12.14	DQ600033801
701	4.32	PIFA	1.14				1.14	5.46	12.14	0.25.900HW.0011
702	4.32	PIFA	0.91				0.91	5.23	12.14	025.900HW.0001
703	4.32	PIFA	1.14				1.14	5.46	12.14	0.25.900HW.0011
704	4.32	PIFA	0.91				0.91	5.23	12.14	025.900HV.0001
705	4.32	PIFA	1.20				1.20	5.52	12.14	T-543-9001107-1
706	4.32	PIFA	-0.22				-0.22	4.10	12.14	T-543-9001108-1
707	4.32	PIFA	0.86				0.86	5.18	12.14	T-543-9001109-2
708	4.32	PIFA	1.99				1.99	6.31	12.14	7KYQUTAN000344
709	4.32	PIFA	2.54				2.54	6.86	12.14	7KYQUTAN000347
710	4.32	PIFA	0.15				0.15	4.47	12.14	7KYQUTAN000348
711	4.32	PIFA	2.51				2.51	6.83	12.14	025.900JE.0001
712	4.32	PIFA	-1.65				-1.65	2.67	12.14	025.900JG.0001
713	4.32	PIFA	0.73				0.73	5.05	12.14	HHA14WIPB01+A
714	4.32	PIFA	1.54				1.54	5.86	12.14	HHA15WIPB02+C

715	4.32	PIFA	1.45				1.45	5.77	12.14	HHA15WIPB03+B
716	4.32	PIFA	1.91				1.91	6.23	12.14	HHB11WIPB02+B
717	4.32	PIFA	1.43				1.43	5.75	12.14	HHB14WIPB03+A
718	4.32	PIFA	2.23				2.23	6.55	12.14	HHD18WIPB02+C
719	4.32	PIFA	2.54				2.54	6.86	12.14	HHDH8WIPB02+B
720	4.32	PIFA	1.17				1.17	5.49	12.14	AWPD23F-074A4031
721	4.32	PIFA	0.61				0.61	4.93	12.14	AWPD23F-074B4031
722	4.32	PIFA	1.17				1.17	5.49	12.14	HHDH9WIPB02+B
723	4.32	PIFA	-4.82				-4.82	-0.50	12.14	AWPD24F-074B4031
724	4.32	PIFA	0.04				0.04	4.36	12.14	AWPD25F-074B4031
725	4.32	PIFA	-0.07				-0.07	4.25	12.14	HHDS4WIPB01+A
726	4.32	PIFA	3.02				3.02	7.34	12.14	HHE10WIPB01+C
727	4.32	PIFA	2.36				2.36	6.68	12.14	HHT13WIPB01+A
728	4.32	PIFA	1.00				1.00	5.32	12.14	HHE14WIPB03+A
729	4.32	PIFA	1.38				1.38	5.70	12.14	HHW08WIPB01+B
730	4.32	PIFA	2.65				2.65	6.97	12.14	HHNH5WIPB01+A
731	4.32	PIFA	2.60				2.60	6.92	12.14	HHNI3WIPB01+A
732	4.32	PIFA	1.62				1.62	5.94	12.14	HHU01WIPB01+A
733	4.32	PIFA	1.62				1.62	5.94	12.14	HHU01WIPB01+A
734	4.32	PIFA	2.28				2.28	6.60	12.14	HHT03WIPB02+A
735	4.32	PIFA	2.28				2.28	6.60	12.14	HHT03WIPB02+A
736	4.32	PIFA	2.49				2.49	6.81	12.14	HHW03WIPB01+B
737	4.32	PIFA	2.49				2.49	6.81	12.14	HHW03WIPB01+B
738	4.32	PIFA	2.67				2.67	6.99	12.14	HHL06WIPB01+A
739	4.32	PIFA	2.78				2.78	7.10	12.14	HHWA0WIPB02+D
740	4.32	PIFA	2.35				2.35	6.67	12.14	HHSX3WIPB01+C
741	4.32	PIFA	3.11				3.11	7.43	12.14	HHN08WIPB01+C
742	4.32	PIFA	1.82				1.82	6.14	12.14	AWPD22F-074J4031
743	4.32	PIFA	3.13				3.13	7.45	12.14	AWPD22F-074J4031
744	4.32	PIFA	3.13				3.13	7.45	12.14	AWPD22F-074J4031
745	4.32	PIFA	0.70				0.70	5.02	12.14	AWPD18F-074A4031
746	4.32	PIFA	1.06				1.06	5.38	12.14	AWPD18F-074F4031
747	4.32	PIFA	1.29				1.29	5.61	12.14	AWPD18F-074G4031
748	4.32	PIFA	1.79				1.79	6.11	12.14	DQ6415G0300
749	4.32	PIFA	3.29				3.29	7.61	12.14	IA-130235 (1510-0124-0007)
750	4.32	PIFA	1.48				1.48	5.80	12.14	SKN65WIPB01+A
751	4.32	PIFA	0.60				0.60	4.92	12.14	SK95LWIPB02+B
752	4.32	Dipole	1.28				1.28	5.60	12.14	497317-003
753	4.32	PIFA	2.63				2.63	6.95	12.14	025.900J1.0001
754	4.32	PIFA	2.71				2.71	7.03	12.14	025.900KF.0001
755	4.32	PIFA	2.78				2.78	7.10	12.14	025.900KD.0001
756	4.32	PIFA	1.38				1.38	5.70	12.14	AAM6Y-100012
757	4.32	PIFA	2.87				2.87	7.19	12.14	025.900HT.0001
758	4.32	PIFA	0.34				0.34	4.66	12.14	025.900KG.0001
759	4.32	PIFA	-0.92				-0.92	3.40	12.14	025.900KE.0001
760	4.32	PIFA	0.15				0.15	4.47	12.14	025.900KC.0001
761	4.32	PIFA	1.27				1.27	5.59	12.14	350502200-600-G
762	4.32	PIFA	2.89				2.89	7.21	12.14	DQ67KYQUT37
763	4.32	PIFA	2.54				2.54	6.86	12.14	DQ67KYQUT39
764	4.32	PIFA	1.24				1.24	5.56	12.14	ADM6Y-200006
765	4.32	PIFA	-0.54				-0.54	3.78	12.14	APP6Y-700323
766	4.32	PIFA	-1.29				-1.29	3.03	12.14	APP6Y-700323
767	4.32	PIFA	-0.66				-0.66	3.66	12.14	6036B0150601
768	4.32	PIFA	-0.97				-0.97	3.35	12.14	6036B0150501
769	4.32	PIFA	0.51				0.51	4.83	12.14	6036B0152501
770	4.32	PIFA	1.62				1.62	5.94	12.14	APP6Y-700303
771	4.32	PIFA	1.41				1.41	5.73	12.14	6036B0149303
772	4.32	PIFA	-1.04				-1.04	3.28	12.14	APP6Y-700307
773	4.32	PIFA	-1.39				-1.39	2.93	12.14	6036B0148703
774	4.32	PIFA	-1.56				-1.56	2.76	12.14	APP6Y-700312
775	4.32	PIFA	-0.92				-0.92	3.40	12.14	6036B0148502
776	4.32	PIFA	2.63				2.63	6.95	12.14	025.900J1.0001
777	4.32	PIFA	2.71				2.71	7.03	12.14	025.900KF.0001
778	4.32	PIFA	2.78				2.78	7.10	12.14	025.900KD.0001
779	4.32	PIFA	0.03				0.03	4.35	12.14	025.900JK.0001
780	4.32	PIFA	-0.92				-0.92	3.40	12.14	025.900KE.0001
781	4.32	PIFA	0.15				0.15	4.47	12.14	025.900KC.0001
782	4.32	PIFA	2.58				2.58	6.90	12.14	025.900J1.0001
783	4.32	PIFA	2.50				2.50	6.82	12.14	025.900GP.0001
784	4.32	PIFA	2.51				2.51	6.83	12.14	025.900JE.0001
785	4.32	PIFA	-0.42				-0.42	3.90	12.14	025.900JL.0001
786	4.32	PIFA	-1.29				-1.29	3.03	12.14	025.900GO.0001
787	4.32	PIFA	-1.65				-1.65	2.67	12.14	025.900JG.0001
788	4.32	PIFA	2.39				2.39	6.71	12.14	ANP6Y-100109
789	4.32	PIFA	2.68				2.68	7.00	12.14	0ACPG016001N
790	4.32	PIFA	-0.86				-0.86	3.46	12.14	14008-00990200
791	4.32	PIFA	0.40				0.40	4.72	12.14	SKP87WIPB02+B
792	4.32	PIFA	1.05				1.05	5.37	12.14	WA-P-LBLB-04-034
793	4.32	PIFA	1.80				1.80	6.12	12.14	ANP6Y-200026
794	4.32	PIFA	1.98				1.98	6.30	12.14	APM6Y-700019
795	4.32	PIFA	1.94				1.94	6.26	12.14	ADM6Y-100003
796	4.32	PIFA	1.43				1.43	5.75	12.14	APM6Y-700017
797	4.32	PIFA	0.30				0.30	4.62	12.14	F.OG.FS-6015-002
798	4.32	PIFA	0.03				0.03	4.35	12.14	F.OG.FS-6016-002
799	4.32	PIFA	1.25				1.25	5.57	12.14	F.OG.FS-6016-002
800	4.32	PIFA	1.25				1.25	5.57	12.14	T-543-3010590-1
801	4.32	PIFA	-0.92				-0.92	3.40	12.14	504993-001
802	4.32	PIFA	-0.81				-0.81	3.51	12.14	600050-001
803	4.32	PIFA	-0.81				-0.81	3.51	12.14	81.EEW15.018
804	4.32	PIFA	-0.30				-0.30	4.02	12.14	812046-001
805	4.32	PIFA	2.33				2.33	6.65	12.14	ANP6Y-100113
806	4.32	PIFA	2.33				2.33	6.65	12.14	7KYQUTAN000365
807	4.32	PIFA	0.15				0.15	4.47	12.14	7KYQUTAN000366
808	4.32	PIFA	0.80				0.80	5.12	12.14	7KYQUTAN000367
809	4.32	PIFA	0.80				0.80	5.12	12.14	T-543-9001107-3
810	4.32	PIFA	0.86				0.86	5.18	12.14	T-543-9001108-3
811	4.32	PIFA	0.86				0.86	5.18	12.14	T-543-9001109-3
812	4.32	PIFA	1.09				1.09	5.41	12.14	0ACCN016016N
813	4.32	PIFA	0.50				0.50	4.82	12.14	0ACCN016016N

814	4.32	PIFA	0.76			0.76	5.08	12.14	57EAA415.051
815	4.32	PIFA	-1.01			-1.01	3.31	12.14	57EAA415.050
816	4.32	PIFA	2.80			2.80	7.12	12.14	6036B0150701
817	4.32	PIFA	2.50			2.50	6.82	12.14	ADM6Y-200009
818	4.32	PIFA	1.16			1.16	5.48	12.14	APP6Y-700246
819	4.32	PIFA	0.87			0.87	5.19	12.14	DQ6LB023500
820	4.32	PIFA	1.73			1.73	6.05	12.14	DQ6LB023501
821	4.32	PIFA	-0.38			-0.38	3.94	12.14	DQ6PLB02300
822	4.32	PIFA	-1.19			-1.19	3.13	12.14	DQ6PLB02301
823	4.32	PIFA	1.47			1.47	5.79	12.14	DQ60PLB0232
824	4.32	PIFA	-0.84			-0.84	3.48	12.14	DQ60PLB0233
825	4.32	PIFA	1.33			1.33	5.65	12.14	DQ6415G4100
826	4.32	PIFA	1.71			1.71	6.03	12.14	DQ6415G4400
827	4.32	PIFA	0.84			0.84	5.16	12.14	DQ6415G4700
828	4.32	PIFA	0.71			0.71	5.03	12.14	DQ6415G4900
829	4.32	PIFA	-0.73			-0.73	3.59	12.14	DQ611051W00
830	4.32	PIFA	1.24			1.24	5.56	12.14	DQ611081W00
831	4.32	PIFA	0.27			0.27	4.59	12.14	DQ600236200
832	4.32	PIFA	-1.04			-1.04	3.28	12.14	DQ601077100
833	4.32	PIFA	-0.31			-0.31	4.01	12.14	DQ601081100
834	4.32	PIFA	2.37			2.37	6.69	12.14	DQ601085100
835	4.32	PIFA	2.12			2.12	6.44	12.14	DQ601093100
836	4.32	PIFA	1.99			1.99	6.31	12.14	DQ601111100
837	4.32	PIFA	2.40			2.40	6.72	12.14	M2410CMRSU
838	4.32	PIFA	1.50			1.50	5.82	12.14	M2410DCR
839	4.32	PIFA	2.41			2.41	6.73	12.14	610-INNEP0005-A
840	4.32	PIFA	2.89			2.89	7.21	12.14	610-INNEP0002-A
841	4.32	PIFA	2.80			2.80	7.12	12.14	610-INNEP0004-A
842	4.32	PIFA	0.70			0.70	5.02	12.14	HHDS6WIPB01+A
843	4.32	PIFA	-0.46			-0.46	3.86	12.14	HH02UWIPB01+B
844	4.32	PIFA	-2.02			-2.02	2.30	12.14	HHW0LWIPB01+D
845	4.32	PIFA	1.59			1.59	5.91	12.14	HH02AWIPB01+A
846	4.32	PIFA	2.31			2.31	6.63	12.14	HHW08WIPB01+B
847	4.32	PIFA	1.71			1.71	6.03	12.14	HHW01WIPB01+B
848	4.32	PIFA	1.62			1.62	5.94	12.14	HHU01WIPB01+A
849	4.32	PIFA	0.52			0.52	4.84	12.14	HHX50WIPB01+B
850	4.32	PIFA	0.91			0.91	5.23	12.14	HHX90WIPB01+A
851	4.32	PIFA	-1.75			-1.75	2.57	12.14	HHED3WIPB01+D
852	4.32	PIFA	1.95			1.95	6.27	12.14	HHCT3WIPB01+A
853	4.32	PIFA	0.35			0.35	4.67	12.14	HH5V5WIPB01+A
854	4.32	Dipole	2.25			2.25	6.57	12.14	HHXPCAPD101+A
855	4.32	Dipole	2.11			2.11	6.43	12.14	HHDX3TEST01+A
856	4.32	PIFA	0.93			0.93	5.25	12.14	HHED3WIPB01+D
857	4.32	PIFA	2.82			2.82	7.14	12.14	ANP6Y-100121
858	4.32	PIFA	1.70			1.70	6.02	12.14	0ACPG016010N
859	4.32	PIFA	0.15			0.15	4.47	12.14	025.900KC.0001
860	4.32	PIFA	0.34			0.34	4.66	12.14	025.900JK.0001
861	4.32	PIFA	1.16			1.16	5.48	12.14	6036B0150701
862	4.32	PIFA	0.33			0.33	4.65	12.14	350504F00-600-G
863	4.32	PIFA	0.56			0.56	4.88	12.14	350504D00-600-G
864	4.32	PIFA	1.51			1.51	5.83	12.14	6036B0150701
865	4.32	PIFA	1.87			1.87	6.19	12.14	6036B0148401
866	4.32	PIFA	2.47			2.47	6.79	12.14	6036B0148401
867	4.32	PIFA	0.70			0.70	5.02	12.14	WA-M-LB-10-023
868	4.32	PIFA	-0.47			-0.47	3.85	12.14	AAM6Y-200013
869	4.32	PIFA	0.71			0.71	5.03	12.14	DQ6415G4900
870	4.32	PIFA	1.33			1.33	5.65	12.14	DQ6415G4100
871	4.32	PIFA	0.84			0.84	5.16	12.14	DQ6415G4700
872	4.32	PIFA	1.71			1.71	6.03	12.14	DQ6415G4400
873	4.32	PIFA	0.34			0.34	4.66	12.14	350504G00-600-G
874	4.32	PIFA	-0.72			-0.72	3.60	12.14	350504A00-600-G
875	4.32	PIFA	1.69			1.69	6.01	12.14	ANP6Y-100136
876	4.32	PIFA	0.28			0.28	4.60	12.14	ANTA0AA11131WLAN1
877	4.32	PIFA	-0.70			-0.70	3.62	12.14	LA05RF895-1H
878	4.32	PIFA	-0.70			-0.70	3.62	12.14	LA05RF919-1H
879	4.32	PIFA	-0.68			-0.68	3.64	12.14	ANTA0AA11571WLAN1
880	4.32	PIFA	-1.18			-1.18	3.14	12.14	ANP6P-100005
881	4.32	PIFA	-0.54			-0.54	3.78	12.14	LB306LC306
882	4.32	PIFA	-3.06			-3.06	1.26	12.14	025.9010E.0001
883	4.32	PIFA	2.71			2.71	7.03	12.14	025.90123.0001
884	4.32	PIFA	1.22			1.22	5.54	12.14	0ACPG016016N
885	4.32	PIFA	1.85			1.85	6.17	12.14	DQ6415G6600
886	4.32	PIFA	1.38			1.38	5.70	12.14	DQ6415G6400
887	4.32	PIFA	2.33			2.33	6.65	12.14	DQ6415G6100
888	4.32	PIFA	0.63			0.63	4.95	12.14	WA-P-LB-01-114
889	4.32	PIFA	-0.30			-0.30	4.02	12.14	WA-P-LB-01-174
890	4.32	PIFA	0.44			0.44	4.76	12.14	WA-P-LB-02-222
891	4.32	PIFA	-0.90			-0.90	3.42	12.14	WA-P-LB-02-389
892	4.32	Dipole	0.83			0.83	5.15	12.14	025.9011A.0001
893	4.32	PIFA	1.94			1.94	6.26	12.14	ANP6Y-100140
894	4.32	PIFA	1.54			1.54	5.86	12.14	SE-ECS50-002
895	4.32	PIFA	-0.37			-0.37	3.95	12.14	025.9013Z.0011
896	4.32	PIFA	0.35			0.35	4.67	12.14	025.9013Z.0001
897	4.32	PIFA	-0.66			-0.66	3.66	12.14	DQ602371500
898	4.32	PIFA	-0.90			-0.90	3.42	12.14	DQ6LB020204
899	4.32	PIFA	0.89			0.89	5.21	12.14	DQ6415G8200
900	4.32	PIFA	-0.66			-0.66	3.66	12.14	DQ602371400
901	4.32	PIFA	-1.74			-1.74	2.58	12.14	DQ6LB024100
902	4.32	PIFA	1.30			1.30	5.62	12.14	DQ6415G8500
903	4.32	PIFA	0.90			0.90	5.22	12.14	0ACCN016038N
904	4.32	PIFA	0.70			0.70	5.02	12.14	ANM6Y-100001
905	4.32	PIFA	0.62			0.62	4.94	12.14	DQ6LB024204
906	4.32	PIFA	1.33			1.33	5.65	12.14	DQ6415G9700
907	4.32	PIFA	0.58			0.58	4.90	12.14	DQ602368900
908	4.32	PIFA	-1.08			-1.08	3.24	12.14	DQ6LB020301
909	4.32	PIFA	1.50			1.50	5.82	12.14	DQ602368800
910	4.32	PIFA	0.69			0.69	5.01	12.14	DQ6LB024201
911	4.32	PIFA	1.86			1.86	6.18	12.14	DQ6415G9800
912	4.32	PIFA	0.03			0.03	4.35	12.14	WA-P-LB-02-289

913	4.32	PIFA	-1.90				-1.90	2.42	12.14	LA05RF836-1H
914	4.32	PIFA	0.38				0.38	4.70	12.14	DQ6LB024203
915	4.32	PIFA	2.15				2.15	6.47	12.14	DQ602369200
916	4.32	PIFA	0.28				0.28	4.60	12.14	DQ6LB024205
917	4.32	PIFA	0.37				0.37	4.69	12.14	DQ6415G9500
918	4.32	PIFA	0.95				0.95	5.27	12.14	025.90133.0001
919	4.32	PIFA	2.66				2.66	6.98	12.14	025.90135.0001
920	4.32	PIFA	2.35				2.35	6.67	12.14	025.90146.0001
921	4.32	PIFA	1.29				1.29	5.61	12.14	025.90145.0001
922	4.32	PIFA	0.50				0.50	4.82	12.14	APP6Y-700127
923	4.32	PIFA	0.09				0.09	4.41	12.14	APP6Y-700139
924	4.32	PIFA	-0.23				-0.23	4.09	12.14	ANTA02P09131WLAN3
925	4.32	PIFA	-0.30				-0.30	4.02	12.14	ANP6Y-100113
926	4.32	PIFA	1.69				1.69	6.01	12.14	ANP6Y-100136
927	4.32	PIFA	1.22				1.22	5.54	12.14	OACPG016016N
928	4.32	PIFA	1.14				1.14	5.46	12.14	6036B0190601
929	4.32	PIFA	-0.08				-0.08	4.24	12.14	SE-ECM40-001
930	4.32	PIFA	-0.92				-0.92	3.40	12.14	OACCN017005N
931	4.32	PIFA	2.20				2.20	6.52	12.14	6036B0193501
932	4.32	PIFA	2.05				2.05	6.37	12.14	260-23718
933	4.32	PIFA	1.45				1.45	5.77	12.14	T-543-9001133-3
934	4.32	PIFA	2.05				2.05	6.37	12.14	260-23668
935	4.32	PIFA	1.45				1.45	5.77	12.14	DQ690011301
936	4.32	Dipole	2.98				2.98	7.30	12.14	RF11C011485
937	4.32	Dipole	2.96				2.96	7.28	12.14	RF11C011905
938	4.32	PIFA	1.52				1.52	5.84	12.14	DQ6415GCK00
939	4.32	PIFA	-0.95				-0.95	3.37	12.14	DQ612141W00
940	4.32	PIFA	1.13				1.13	5.45	12.14	81EAA15.GHN
941	4.32	PIFA	1.57				1.57	5.89	12.14	ANTA0AQ11962WLAN1
942	4.32	PIFA	-0.03				-0.03	4.29	12.14	WA-P-LB-02-449
943	4.32	PIFA	-3.42				-3.42	0.90	12.14	ANTA0AA11861WLAN1
944	4.32	PIFA	-0.98				-0.98	3.34	12.14	OACAU017006N
945	4.32	PIFA	1.82				1.82	6.14	12.14	ANP6Y-100208
946	4.32	PIFA	-1.67				-1.67	2.65	12.14	ANTA0AA12271WLAN1
947	4.32	PIFA	0.80				0.80	5.12	12.14	LA9RF066-CS-H
948	4.32	PIFA	1.40				1.40	5.72	12.14	ANTA0HQ12571WLAN1
949	4.32	PIFA	2.45				2.45	6.77	12.14	81EAA415.GE8
950	4.32	PIFA	1.12				1.12	5.44	12.14	OACQD018004N
951	4.32	PIFA	-0.41				-0.41	3.91	12.14	OACAU017007N
952	4.32	PIFA	-2.10				-2.10	2.22	12.14	LA9RF076-CS-H
953	4.32	PIFA	3.15				3.15	7.47	12.14	IAHA201712020
954	4.32	Dipole	1.68				2.66	6.98	12.14	DQ6115G0500
955	4.32	Dipole	0.15				0.00	4.32	12.14	DQ612391W03
956	4.32	PIFA	1.12				-0.41	3.91	12.14	DQ60ACQD012
957	4.32	PIFA	2.45				-2.10	2.22	12.14	DQ6415GE800
958	4.32	PIFA	1.40				3.15	7.47	12.14	DQ612571W00

5. Unwanted Emission Intensity

Test Voltage		V	Normal Voltage (3.3 V)							Remarks
Unwanted Emission Intensity	Test Frequency	MHz		2484						
	Unwanted Emission Frequency	* 1	MHz	73.70						RBW : 1 MHz ; VBW : 1 MHz
		* 2	MHz	2471.00						
		* 3	MHz	2497.00						
		* 4	MHz	3169.34						
	Cable Loss	* 1	dB	1.04						
		* 2	dB	1.04						
		* 3	dB	1.04						
		* 4	dB	1.91						
	Spectrum Raw	* 1	dBm/MHz	-40.74						
		* 2	dBm/MHz	-20.91						
		* 3	dBm/MHz	-20.96						
		* 4	dBm/MHz	-43.90						
	Unwanted Emission Intensity	* 1	dBm/MHz	-39.70						Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		* 2	dBm/MHz	-19.87						Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		* 3	dBm/MHz	-19.92						Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		* 4	dBm/MHz	-41.99						Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
	Unwanted Emission Intensity	* 1	μW/MHz	0.107						Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		* 2	μW/MHz	10.304						Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		* 3	μW/MHz	10.186						Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		* 4	μW/MHz	0.063						Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)

* 1: Frequency Band 1 (30 MHz ≤ f ≤ 2458 MHz)

* 2: Frequency Band 2 (2458 MHz < f ≤ 2471 MHz)

* 3: Frequency Band 3 (2497 MHz ≤ f < 2510 MHz)

* 4: Frequency Band 4 (2510 MHz ≤ f < 12.5 GHz)

* 5: Frequency Band 5 (30 MHz ≤ f < 1000 MHz)

* 6: Frequency Band 6 (1000 MHz ≤ f < 12.5 GHz)

6. Limitation of Collateral Emission of Receiver

Limitation of Collateral Emission	Test Voltage		V		Normal Voltage (3.3 V)						Remarks	
	Test Frequency		MHz		2484							
Spurious Emission Frequency	※ 5	※ 5	MHz		123.12						1st	30MHz~1000MHz:: Maximum emission and all emissions beyond 1/10 of the limitation must be indicated.
		※ 5	MHz		-						2nd	
		※ 6	MHz		9947.00						3rd	
		※ 6	MHz		-						1st	1000MHz~12.5GHz:: Maximum emission and all emissions beyond 1/10 of the limitation must be indicated.
		※ 6	MHz		-						2nd	
		※ 6	MHz		-						3rd	
Cable Loss	※ 5	※ 5	dB		1.04						1st	
		※ 5	dB		-						2nd	
		※ 5	dB		-						3rd	
		※ 6	dB		1.91						1st	
		※ 6	dB		-						2nd	
		※ 6	dB		-						3rd	
Spectrum Raw	※ 5	※ 5	dBm		-60.60						1st	
		※ 5	dBm		-						2nd	
		※ 5	dBm		-						3rd	
		※ 6	dBm		-72.60						1st	
		※ 6	dBm		-						2nd	
		※ 6	dBm		-						3rd	
Spurious Emission Intensity	※ 5	※ 5	dBm		-59.56						1st	Limit ≤ 4 nW (-54 dBm) RBW : 100 kHz ; VBW : 100 kHz
		※ 5	dBm		-						2nd	
		※ 5	dBm		-						3rd	
		※ 6	dBm		-70.69						1st	Limit ≤ 20 nW (-47 dBm) RBW : 1 MHz ; VBW : 1 MHz
		※ 6	dBm		-						2nd	
		※ 6	dBm		-						3rd	
Spurious Emission Intensity	※ 5	※ 5	nW		1.107						Total Emission Power	Limit ≤ 4 nW (-54 dBm) RBW : 100 kHz ; VBW : 100 kHz
		※ 5	nW		1.107						1st	
		※ 5	nW		-						2nd	
		※ 5	nW		-						3rd	Limit ≤ 20 nW (-47 dBm) RBW : 1 MHz ; VBW : 1 MHz
		※ 6	nW		0.085						Total Emission Power	
		※ 6	nW		-						1st	
		※ 6	nW		-						2nd	
		※ 6	nW		-						3rd	

- ※ 1: Frequency Band 1 (30 MHz ≤ f ≤ 2458 MHz) ※ 4: Frequency Band 4 (2510 MHz ≤ f < 12.5 GHz)
 ※ 2: Frequency Band 2 (2458 MHz < f ≤ 2471 MHz) ※ 5: Frequency Band 5 (30 MHz ≤ f < 1000 MHz)
 ※ 3: Frequency Band 3 (2497 MHz ≤ f < 2510 MHz) ※ 6: Frequency Band 6 (1000 MHz ≤ f < 12.5 GHz)

8. Carrier Sense Capability

Carrier Sense	Test Voltage		V		Normal Voltage (3.3 V)						Remarks	
	Test Frequency		MHz		2484							
	Mini. Antenna Gain		dBi		3.5							
	Carrier Level		dBm		0.00						Pin = 22.79+Gr-20*log(freq_MHz) [dBm]	
	Result		Good/Fail		Good							

9. Spread Factor

Spread Factor	Test Voltage		V		Normal Voltage (3.3 V)						Remarks	
	Test Frequency		MHz		2484							
	Spread-Spectrum Bandwidth		MHz		15.20							
	Modulation Rate		Mcps		1.375							
	Spread Factor				11.05						Spread Factor Limit ≥ 10 (DSSS and FHSS)	

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	3.30	3.630	2.970
Output DC Power	3.30	3.314	3.290
Voltage Variation (%)	-	0.424	-0.303

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage) / Output Normal Voltage X 100
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

Appendix C. Antenna List

Table for Filed Antenna

No.	Brand	Ant. Type	Con. Type	Peak Gain (dBi)	Model No.
1	LYNwave	PIFA	IPEX MHF4	TX1: 3.5	TX1: ALA110-222050-300011
2	FVC	PIFA	IPEX	TX1: 1.58 TX2: 1.75	K05007012102
3	FVC	PIFA	IPEX	TX1: 2.7 TX2: 2.19	K05007013402
4	FVC	PIFA	IPEX	TX1: 1.51 TX2: 2.04	K05007012803
5	FVC	PIFA	IPEX	TX1: 2.53 TX2: 2.28	K05007015501
6	FVC	PIFA	IPEX	TX1: 2.85 TX2: 1.59	K05007014501
7	FVC	PIFA	IPEX	TX1: 3.00 TX2: 1.52	K05007014201
8	FVC	PIFA	IPEX	TX1: 1.85 TX2: 1.94	TX1: K05007014901 TX2: K05007015001
9	ACON	PIFA	IPEX	TX1: -0.57 TX2: -1.61	TX1: APP6P-700900 TX2: APP6P-700900
10	JEM	PIFA	IPEX	TX1: 2.23 TX2: 2.21	1510-0122-0022(IA-120073)
11	WGT	PIFA	IPEX	TX1: 3.2 TX2: 2.76	TX1: SKX51WMPB01+C TX2: SKX51WMPB02+C
12	Yageo	PIFA	IPEX	TX1: 0.24 TX2: 0.59	TX1: ANTA0ZP08021WLAN1 TX2: ANTA0ZP08021WLAN2
13	WGT	PIFA	IPEX	TX1: 1.79 TX2: 0.66	TX1: SK 81WMPB01+A TX2: SK 81WMPB02+A
14	WGT	PIFA	IPEX	TX1: 1.36 TX2: 2.88	SKW2UWMPB01+A
15	WGT	PIFA	IPEX	TX1: 1.85 TX2: 3.14	SKW31WMPB01+A
16	WGT	PIFA	IPEX	TX1: -1.84 TX2: -2.93	TX1: SKM11WMPB03+A TX2: SKM11WMPB02+D
17	WGT	PIFA	IPEX	TX1: 2.46 TX2: 2.91	SKC45WMPB03+B

18	WGT	PIFA	IPEX	TX1: 1.25 TX2: 3.17	SKW24WMPB01+B
19	WGT	PIFA	IPEX	TX1: 0.76 TX2: 0.09	TX1: SK555WMPB01+B TX2: SK555WMPB02+B
20	ACON	PIFA	IPEX	TX1: 1.94 TX2: 1.40	TX1: DQ60APP6P81 TX2: DQ60APP6P80
21	HONGLIN	PIFA	IPEX	TX1: -0.50 TX2: -0.19	TX1: DQ602352300 TX2: DQ602352200
22	Amphenol	PIFA	IPEX	TX1: 1.82 TX2: 2.64	TX1: DC330016100 TX2: DC330016110
23	Amphenol	PIFA	IPEX	TX1: -0.35 TX2: 0.59	TX1: DC330016180 TX2: DC330016190
24	Luxshare-ICT	PIFA	IPEX	TX1: -0.07 TX2: 0.32	TX1: DC330015Z80 TX2: DC330015Z90
25	Luxshare-ICT	PIFA	IPEX	TX1: -1.45 TX2: -0.37	TX1: DC330015Z00 TX2: DC330015Z10
26	Amphenol	PIFA	IPEX	TX1: 1.64 TX2: 1.47	TX1: DC330016160 TX2: DC330016170
27	Luxshare-ICT	PIFA	IPEX	TX1: -0.38 TX2: -0.60	TX1: DC330015Z60 TX2: DC330015Z70
28	Amphenol	PIFA	IPEX	TX1: 1.67 TX2: 2.26	TX1: DC3300161A0 TX2: DC3300161B0
29	Luxshare-ICT	PIFA	IPEX	TX1: 1.1 TX2: 0.1	TX1: DC330015ZA0 TX2: DC330015ZB0
30	Amphenol	PIFA	IPEX	TX1: -0.22 TX2: -1.73	TX1: DC330016200 TX2: DC330016210
31	Amphenol	PIFA	IPEX	TX1: -2.62 TX2: -0.70	TX1: DC330016220 TX2: DC330016230
32	Luxshare-ICT	PIFA	IPEX	TX1: -0.94 TX2: -1.11	TX1: DC330016020 TX2: DC330016030
33	Luxshare-ICT	PIFA	IPEX	TX1: -4.49 TX2: -1.68	TX1: DC330016000 TX2: DC330016010
34	Amphenol	PIFA	IPEX	TX1: -0.46 TX2: -0.98	TX1: DC330016260 TX2: DC330016270
35	Luxshare-ICT	PIFA	IPEX	TX1: -0.43 TX2: 0.84	TX1: DC330016060 TX2: DC330016070

36	HIGH-TEK	PIFA	IPEX	TX1: -0.69 TX2: -0.61	TX1: DC33001C100 TX2: DC33001C100
37	JESS-LINK	PIFA	IPEX	TX1: -1.90 TX2: -0.98	TX1: DC33001AX00 TX2: DC33001AX00
38	YAGEO	PIFA	IPEX	TX1: -0.27 TX2: -0.88	TX1: 25.90AH8.021 TX2: 25.90AH7.021
39	ACON	PIFA	IPEX	TX1: 0.96 TX2: 1.33	TX1: ATP6P-700000 TX2: ATP6P-700001
40	ACON	PIFA	IPEX	TX1: 1.92 TX2: 2.20	TX1: APP6P-700853 TX2: APP6P-700854
41	ACON	PIFA	IPEX	TX1: 1.20 TX2: 0.11	APP6P-700931
42	WNC	PIFA	IPEX	TX1: 0.24 TX2: -0.58	TX1: 25.90AH8.001 TX2: 25.90AH7.001
43	ACON	PIFA	IPEX	TX1: -0.84 TX2: -1.60	APP6P-700932
44	WNC	PIFA	IPEX	TX1: 0.20 TX2: -0.60	81EAAS15.G01 (DC33001EK00)
45	Luxshared	PIFA	IPEX	TX1: -0.77	L01RF035-DT-R
46	TE	PIFA	IPEX	TX1: -0.63 TX2: -1.69	TX1: 25.90AC4.011 TX2: 25.90AC3.011
47	WNC	PIFA	IPEX	TX1: 1.19 TX2: -0.14	TX1: 25.90AC4.001 TX2: 25.90AC3.001
48	WGT	PIFA	IPEX	TX1: 1.05 TX2: -0.41	TX1: SK110WMPB01+A TX2: SK110WMPB02+A
49	WGT	PIFA	IPEX	TX1: -1.61 TX2: -2.84	TX1: SKW23WMPB01+A TX2: SKW23WMPB02+A
50	WGT	PIFA	IPEX	TX1: -0.66 TX2: 0.78	TX1: SK547WMPB01+A TX2: SK549WMPB02+A
51	WGT	PIFA	IPEX	TX1: -0.93 TX2: 0.20	TX1: SK740WMPB01+A TX2: SK740WMPB02+A
52	WGT	PIFA	IPEX	TX1: 3.03 TX2: 0.55	TX1: SK840WMPB01+B_SN TX2: SK840WMPB01+B_SN
53	WNC	PIFA	IPEX	TX1: -0.26 TX2: -0.67	TX1: 81EAAS15.G02 TX2: 81EAAS15.G02

54	WNC	PIFA	IPEX	TX1: 0.89 TX2: 0.14	DC33001EK40 (81EAAS15.G05)
55	WNC	PIFA	IPEX	TX1: -0.06 TX2: 0.25	TX1: 81.EL415.G28.X01 TX2: 81.EL415.G29.X01
56	TONGDA	PIFA	IPEX	TX1: -0.57 TX2: 0.14	TX1: T-543-900100-12 TX2: T-543-900100-12
57	TONGDA	PIFA	IPEX	TX1: -1.96 TX2: 0.11	TX1: DC33001F300 / T-543-900100-02 TX2: DC33001F300 / T-543-900100-02
58	TONGDA	PIFA	IPEX	TX1: -0.37 TX2: 0.39	TX1: T-543-900100-01 TX2: T-543-900100-01
59	WGT	PIFA	IPEX	TX1: 0.46 TX2: -0.79	TX1: SKCZTWMPB01+A TX2: SKCZTWMPB02+A
60	WGT	PIFA	IPEX	TX1: 1.48 TX2: 1.15	TX1: SK670WMPB01+A TX2: SK670WMPB02+A
61	INPAQ	PIFA	IPEX	TX1: -3.66 TX2: -1.78	TX1: WA-P-LB-02-082 TX2: WA-P-LB-01-046
62	Smart-Approach	PIFA	IPEX	TX1: -4.42 TX2: -4.71	TX1: SE-ECZA0-001 TX2: SE-ECZA0-002
63	WNC	PIFA	IPEX	TX1: 0.26 TX2: -0.65	TX1: 81EAAS15.G13 TX2: 81EAAS15.G14
64	WNC	PIFA	IPEX	TX1: 0.01 TX2: -0.36	TX1: 81EAAS15.G09 TX2: 81EAAS15.G10
65	ACON	PIFA	IPEX	TX1: 1.84 TX2: 1.05	TX1: APP6P-700917 TX2: APP6P-700918
66	ACON	PIFA	IPEX	TX1: 0.17 TX2: -1.20	TX1: APP6P-700915 TX2: APP6P-700916
67	JEM	PIFA	IPEX	TX1: 2.13 TX2: 2.04	TX1: IA 120278 TX2: IA 120279
68	JEM	PIFA	IPEX	TX1: 2.06 TX2: 2.77	IA-120007
69	JEM	PIFA	IPEX	TX1: 1.60 TX2: 2.93	IA-120007
70	WGT	PIFA	IPEX	TX1: 0.76 TX2: 0.46	TX1: SK94SWMPB01+B TX2: SK94SWMPB01+B
71	WGT	PIFA	IPEX	TX1: 1.32 TX2: 1.86	TX1: SK94TWMPB01+B TX2: SK94TWMPB01+B

72	WGT	PIFA	IPEX	TX1: -0.03 TX2: -0.13	TX1: SK50SWMPB01+A TX2: SK50SWMPB02+A
73	ACON	PIFA	IPEX	TX1: 0.84 TX2: -0.27	TX1: APM8P-700072 TX2: APM8P-700073
74	ACON	PIFA	IPEX	TX1: 0.76 TX2: -0.52	TX1: APP8P-700461 TX2: APP8P-700462
75	ACON	PIFA	IPEX	TX1: 1.74 TX2: 1.01	TX1: APM8P-700070 TX2: APM8P-700071
76	ACON	PIFA	IPEX	TX1: 2.92 TX2: 0.06	TX1: APP8P-700463 TX2: APP8P-700464
77	HongLin	PIFA	IPEX	TX1: -0.8 TX2: 0.72	TX1: 260-24018 TX2: 260-24017
78	WNC	PIFA	IPEX	TX1: -0.85 TX2: -0.51	TX1: DC33001CA20 (81.EK515.G52) TX2: DC33001CA30 (81.EK515.G53)
79	ACON	PIFA	IPEX	TX1: 0.82 TX2: 2.07	TX1: APP8P-700473 TX2: APP8P-700474
80	HongLin	PIFA	IPEX	TX1: 1.88 TX2: 1.31	TX1: 260-24016 TX2: 260-24015
81	HongLin	PIFA	IPEX	TX1: 0.87 TX2: -0.53	TX1: 260-24011 TX2: 260-24010
82	HongLin	PIFA	IPEX	TX1: 0.34 TX2: 1.98	TX1: 260-24013 TX2: 260-24012
83	HongLin	PIFA	IPEX	TX1: 1.92 TX2: -0.14	TX1: 260-24001 TX2: 260-24000
84	HongLin	PIFA	IPEX	TX1: 1.85 TX2: 0.94	TX1: 260-24003 TX2: 260-24002
85	Smart Approach	PIFA	IPEX	TX1: 0.37 TX2: 1.35	TX1: SE-ECWGP-001 TX2: SE-ECWGP-002
86	Smart Approach	PIFA	IPEX	TX1: 0.08 TX2: 1.33	TX1: SE-ECLG2-001 TX2: SE-ECLG2-002
87	Smart Approach	PIFA	IPEX	TX1: 1.19 TX2: 1.54	TX1: SE-ECWGR-001 TX2: SE-ECWGR-002
88	Smart Approach	PIFA	IPEX	TX1: -0.04 TX2: 1.10	TX1: SE-ECLG1-001 TX2: SE-ECLG1-002
89	WNC	PIFA	IPEX	TX1: 0.45 TX2: 1.06	TX1: 81.EK515.G36 TX2: 81.EK515.G37

90	WNC	PIFA	IPEX	TX1: -0.90 TX2: -2.06	TX1: DC33001CA00 (81.EK515.G46) TX2: DC33001CA10 (81.EK515.G47)
91	WNC	PIFA	IPEX	TX1: 0.77 TX2: 0.11	TX1: 81.EK515.G38 TX2: 81.EK515.G39
92	WNC	PIFA	IPEX	TX1: -0.20 TX2: -1.54	TX1: DC33001CC00 (81.EK515.G48) TX2: DC33001CC10 (81.EK515.G49)
93	JEM	PIFA	IPEX	TX1: 2.77 TX2: 3.13	TX1: IA-130306 TX2: IA-130307
94	JEM	PIFA	IPEX	TX1: 2.09 TX2: 1.77	TX1: IA-130082 TX2: IA-130083
95	JEM	PIFA	IPEX	TX1: 1.68 TX2: 1.52	TX1: IA-130086 (13B130-FT2070) TX2: IA-130087 (13B130-FT2071)
96	JEM	PIFA	IPEX	TX1: 2.13 TX2: 1.85	TX1: IA-130086 (13B130-FT2070) TX2: IA-130087 (13B130-FT2071)
97	WGT	PIFA	IPEX	TX1: 2.81 TX2: 1.92	TX1: EGTZ2WIPB01+A (13B130-JV3051 ES) TX2: EGTZ2WIPB02+A (13B130-JV3050 ES)
98	WGT	PIFA	IPEX	TX1: 2.5 TX2: 1.65	TX1: EGS45WIPB02+A (13B130-FT2050) TX2: EGS45WIPB01+A (13B130-FT2051)
99	WGT	PIFA	IPEX	TX1: -3.11 TX2: 1.46	TX1: EGS45WIPB02+A (13B130-FT2050) TX2: EGS45WIPB01+A (13B130-FT2051)
100	Luxshare	PIFA	IPEX	TX1: -1.45 TX2: 0.11	TX1: L01RF024-YT-R TX2: L01RF032-YT-R
101	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: 0.14	TX1: L01RF031-DT-R TX2: L01RF013-R
102	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: -0.14	TX1: L01RF031-DT-R TX2: L01RF014-R
103	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: -0.04	TX1: L01RF031-DT-R TX2: L01RF022-DT-R
104	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: 2.51	TX1: L01RF031-DT-R TX2: L01RF031-DT-R
105	JEM	PIFA	IPEX	TX1: 2.64 TX2: -0.19	TX1: IA-130096 TX2: IA-130096
106	JEM	PIFA	IPEX	TX1: 2.03 TX2: -1.19	TX1: IA-130173 TX2: IA-130173
107	JEM	PIFA	IPEX	TX1: 1.05 TX2: -1.60	TX1: IA-130313 TX2: IA-130313

108	JEM	PIFA	IPEX	TX1: 2.57 TX2: 1.55	TX1: IA-130314 TX2: IA-130314
109	Smart Approach	PIFA	IPEX	TX1: -0.27 TX2: 0.85	TX1: SE-ECWU6-001 TX2: SE-ECWU6-001
110	Smart Approach	PIFA	IPEX	TX1: 0.22 TX2: 0.94	TX1: SE-ECWF5-001 TX2: SE-ECWF5-001
111	Yageo	PIFA	IPEX	TX1: -0.12 TX2: -1.03	TX1: CAN4313NC0753LLB1 TX2: CAN4313NC0753LLB1
112	Smart Approach	PIFA	IPEX	TX1: -0.57 TX2: 1.13	TX1: SE-ECWF5-002 TX2: SE-ECWF5-002
113	Yageo	PIFA	IPEX	TX1: 1.13 TX2: -0.03	TX1: CAN4313NC0753LLB2 TX2: CAN4313NC0753LLB2
114	Hong-Lin	PIFA	IPEX	TX1: 2.85 TX2: 0.43	TX1: 260-23557 TX2: 260-23556
115	ACON	PIFA	IPEX	TX1: 0.17 TX2: -1.20	TX1: APP6Y-700000 TX2: APP6Y-700001
116	ACON	PIFA	IPEX	TX1: 1.84 TX2: 1.05	TX1: APP6Y-700002 TX2: APP6Y-700003
117	WNC	PIFA	IPEX	TX1: 0.01 TX2: -0.36	TX1: 81EAAS15.G19 TX2: 81EAAS15.G20
118	WNC	PIFA	IPEX	TX1: 0.26 TX2: -0.65	TX1: 81EAAS15.G17 TX2: 81EAAS15.G18
119	ACON	PIFA	IPEX	TX1: 0.32 TX2: 0.53	TX1: 25.90ALM.001 (AMM8P-700026) TX2: 25.90ALN.001 (AMM8P-700027)
120	INNOWAVE	PIFA	IPEX	TX1: 0.77 TX2: -0.62	TX1: 25.90ALO.001 (640-INNEP0008-A) TX2: 25.90ALP.001 (640-INNEP0007-A)
121	ACON	PIFA	IPEX	TX1: 1.73 TX2: 1.47	TX1: AMM6P-700025 (25.90AL4.001) TX2: AMM6P-700026 (25.90AL5.001)
122	INNOWAVE	PIFA	IPEX	TX1: 0.54 TX2: 1.79	TX1: 25.90AL7.001 (640-INNEP0005-A) TX2: 25.90AL8.001 (640-INNEP0006-A)
123	Foxconn	PIFA	IPEX	TX1: -4.13 TX2: -2.85	TX1: DQ608300300 TX2: DQ608300300
124	WGT	PIFA	IPEX	TX1: 1.32 TX2: 1.86	TX1: SK94TWMPB01+D TX2: SK94TWMPB01+D
125	HONGLIN	PIFA	IPEX	TX1: 0.64 TX2: 2.01	TX1: 260-24032 TX2: 260-24031

126	TONGDA	PIFA	IPEX	TX1: 1.95 TX2: 0.96	TX1: DC33001GR00 / T-543-9021004-1 TX2: DC33001GR10 / T-543-9021004-2
127	INPAQ	PIFA	IPEX	TX1: -3.18 TX2: -0.93	TX1: WA-P-LB-02-088 TX2: WA-P-LB-01-049
128	Smart-Approach	PIFA	IPEX	TX1: -0.23 TX2: -2.93	TX1: SE-ECSA0-001 TX2: SE-ECSA0-002
129	Auden	PIFA	IPEX	TX1: -0.02 TX2: 2.03	TX1: BAUK01063-WIFI-L TX2: BAUK01063-WIFI-R
130	INPAQ	PIFA	IPEX	TX1: -0.11 TX2: 1.00	TX1: WA-P-LB-10-015-L TX2: WA-P-LB-10-015-R
131	JEM	PIFA	IPEX	TX1: 0.08 TX2: 1.07	TX1: IA-130361 TX2: IA-130362
132	JEM	PIFA	IPEX	TX1: 2.63 TX2: 0.19	TX1: IA-130157 (13B130-FU4070) TX2: IA-130158 (13B130-FU4071)
133	WGT	PIFA	IPEX	TX1: 2.82 TX2: 1.57	TX1: EGC10WIPB01+A (13B130-FS8050) TX2: EGC10WIPB02+A (13B130-FS8051)
134	WGT	PIFA	IPEX	TX1: 3.38 TX2: 3.28	TX1: EG10MWIPB01+A (13B130-FU4051 ES) TX2: EG10MWIPB02+A (13B130-FU4050 ES)
135	WNC	PIFA	IPEX	TX1: 2.75 TX2: 1.79	TX1: 81.EEW.15.GAF (25.90AEM.001) TX2: 81.EEW.15.GAG (25.90AEN.001)
136	ACON	PIFA	IPEX	TX1: -0.21 TX2: -0.82	TX1: AMM6P-700041 (025.9001G.0001) TX2: AMM8P-700031 (025.9001H.0001)
137	INNOWAVE	PIFA	IPEX	TX1: 1.58 TX2: 0.51	TX1: 640-INNEP0036-A (025.9001I.0001) TX2: 640-INNEP0037-A (025.9001J.0001)
138	LUXSHARE	PIFA	IPEX	TX1: 1.27 TX2: -0.1	TX1: DC330017L00 TX2: DC330017L10
139	Speed	PIFA	IPEX	TX1: 0.23 TX2: 1.25	TX1: DC330017G00 TX2: DC330017G10
140	LUXSHARE	PIFA	IPEX	TX1: 1.60 TX2: 0.84	TX1: DC330017M00 TX2: DC330017M10
141	Speed	PIFA	IPEX	TX1: 1.87 TX2: 2.85	TX1: DC330017J00 TX2: DC330017J10
142	WNC	PIFA	IPEX	TX1: 1.55 TX2: 0.76	TX1: 81.EKU15.G59 TX2: 81.EKU15.G60
143	TONGDA	PIFA	IPEX	TX1: -0.23 TX2: 0.83	TX1: T-543-9021015-1 TX2: T-543-9021015-2

144	ACON	PIFA	IPEX	TX1: -0.7 TX2: -1.85	TX1: APP6Y-700015 TX2: APP6Y-700016
145	Smart Approach	PIFA	IPEX	TX1: 1.33 TX2: 1.13	TX1: SE-ECB14-001 TX2: SE-ECB14-002
146	HONGLIN	PIFA	IPEX	TX1: -1.15 TX2: 0.42	TX1: 260-24034 TX2: 260-24033
147	Speed	PIFA	IPEX	TX1: -0.09 TX2: -2.17	TX1: F.0G.FH-6004-001 TX2: F.0G.FH-6004-002
148	WNC	PIFA	IPEX	TX1: 1.91 TX2: 1.72	TX1: 81.EKU15.G61 TX2: 81.EKU15.G62
149	WNC	PIFA	IPEX	TX1: 0.49 TX2: 1.30	TX1: 81.EKU15.G55 TX2: 81.EKU15.G56
150	TONGDA	PIFA	IPEX	TX1: 1.86 TX2: -0.25	TX1: T-543-9021017-1 TX2: T-543-9021017-2
151	Smart approach	PIFA	IPEX	TX1: 0.19 TX2: 0.75	TX1: SE-ECB15-001 TX2: SE-ECB15-002
152	ACON	PIFA	IPEX	TX1: 0.47 TX2: 1	TX1: APP6Y-700021 TX2: APP6Y-700022
153	HONGLIN	PIFA	IPEX	TX1: 0.53 TX2: 1.75	TX1: 260-24036 TX2: 260-24035
154	Speed	PIFA	IPEX	TX1: -0.96 TX2: -0.32	TX1: F.0G.FH-6005-001 TX2: F.0G.FH-6005-002
155	WNC	PIFA	IPEX	TX1: 1.91 TX2: 1.97	TX1: 81.EKU15.G57 TX2: 81.EKU15.G58
156	WNC	PIFA	IPEX	TX1: 1.94 TX2: 0.62	TX1: 81.EKU15.G53 TX2: 81.EKU15.G54
157	TONGDA	PIFA	IPEX	TX1: 1.95 TX2: 0.36	TX1: T-543-9021010-1 TX2: T-543-9021010-2
158	Smart approach	PIFA	IPEX	TX1: 0.30 TX2: 1.02	TX1: SE-ECWE0-001 TX2: SE-ECWE0-002
159	ACON	PIFA	IPEX	TX1: 0.27 TX2: 1.34	TX1: APP6Y-700019 TX2: APP6Y-700020
160	HIGH-TEK	PIFA	IPEX	TX1: 1.19 TX2: 0.3	TX1: 0ACCN013035N TX2: 0ACCN013035N
161	Smart approach	PIFA	IPEX	TX1: 0.61 TX2: 1.29	TX1: SE-ECVY1-001 TX2: SE-ECVY1-001

162	Smart approach	PIFA	IPEX	TX1: 1.80 TX2: -3.13	TX1: SE-ECVY2-001 TX2: SE-ECVY2-001
163	TONGDA	PIFA	IPEX	TX1: 1.98 TX2: 1.85	TX1: T-543-9021012-A TX2: T-543-9021012-A
164	HIGH-TEK	PIFA	IPEX	TX1: -0.07 TX2: -1.81	TX1: 0ACCN013036 TX2: 0ACCN013036
165	Zhan yun	PIFA	IPEX	TX1: 1.16 TX2: 1.31	TX1: QTFF6-EQL0202A TX2: QTFF6-EQL0202A
166	Zhan yun	PIFA	IPEX	TX1: 0.34 TX2: 0.56	TX1: QTFF6-EQL0102A TX2: QTFF6-EQL0102A
167	VSO	PIFA	IPEX	TX1: 2.07 TX2: 0.39	TX1: 821-101-01211090 TX2: 821-101-01211100
168	Hong-Lin	PIFA	IPEX	TX1: 2.85 TX2: 0.43	TX1: 260-23557 TX2: 260-23556
169	HIGH-TEK	PIFA	IPEX	TX1: -0.87 TX2: 0.77	TX1: 025.9002N.0011 TX2: 025.9002M.0011
170	WNC	PIFA	IPEX	TX1: 0.33 TX2: 1.03	TX1: 025.9002N.0001 TX2: 025.9002M.0001
171	HIGH-TEK	PIFA	IPEX	TX1: -0.6 TX2: -1.54	TX1: 025.90027.0011 TX2: 025.90026.0011
172	WNC	PIFA	IPEX	TX1: -1.09 TX2: 0.62	TX1: 025.90027.0001 TX2: 025.90026.0001
173	INNOWAVE	PIFA	IPEX	TX1: -1.17 TX2: 1.63	TX1: 025.90019.0001 (640-INNEP0030-A) TX2: 025.9001A.0001 (640-INNEP0031-A)
174	WNC	PIFA	IPEX	TX1: 0.82 TX2: 0.49	TX1: 025.90017.0001 (81.EEW15.GEL) TX2: 025.90018.0001 (81.EEW15.GEM)
175	WGT	PIFA	IPEX	TX1: -0.93 TX2: -0.36	TX1: SK970WIPB01+A TX2: SK970WIPB02+A
176	TONGDA	PIFA	IPEX	TX1: 1.98 TX2: 1.91	TX1: T-543-9021011-A TX2: T-543-9021011-A
177	Foxconn	PIFA	IPEX	TX1: 2.27 TX2: 1.14	TX1: 79011HU00-600-G TX2: 79011HU00-600-G
178	Yageo	PIFA	IPEX	TX1: 1.06	TX1: DQ600856200/ ANTA0HQ08562WLGP4
179	Foxconn	PIFA	IPEX	TX1: -0.57 TX2: -0.97	TX1: DQ6V5NS3300 (WDAN-HQV5NS33-DH) TX2: DQ6V5NS3300 (WDAN-HQV5NS33-DH)

180	Foxconn	PIFA	IPEX	TX1: -0.07	TX1: DQ6V5NS3100 (WDAN-HQV5NS31-DH)
181	Foxconn	PIFA	IPEX	TX1: 0.30 TX2: -0.18	TX1: DQ6V5TS3300 (WDAN-HQV5TS33-DH) TX2: DQ6V5TS3300 (WDAN-HQV5TS33-DH)
182	Foxconn	PIFA	IPEX	TX1: 2.25	TX1: DQ6V5TS3100 (WDAN-HQV5TS31-DH)
183	Foxconn	PIFA	IPEX	TX1: 0.48 TX2: -0.69	TX1: DQ6V7NS3300 (WDAN-HQV7NS33-DH) TX2: DQ6V7NS3300 (WDAN-HQV7NS33-DH)
184	Foxconn	PIFA	IPEX	TX1: -0.89	TX1: DQ6V7NS3100 (WDAN-HQV7NS31-DH)
185	Foxconn	PIFA	IPEX	TX1: 2.34	TX1: DQ6V7TS3100 (WDAN-HQV7TS31-DH)
186	Foxconn	PIFA	IPEX	TX1: 1.44 TX2: 1.04	TX1: DQ6V4NS3300 (WDAN-HQV4NS33-DH) TX2: DQ6V4NS3300 (WDAN-HQV4NS33-DH)
187	Foxconn	PIFA	IPEX	TX1: -0.93	TX1: DQ6V4NS3100 (WDAN-HQV4NS31-DH)
188	Foxconn	PIFA	IPEX	TX1: 1.25 TX2: 3.36	TX1: DQ6V4TS3300 (WDAN-HQV4TS33-DH) TX2: DQ6V4TS3300 (WDAN-HQV4TS33-DH)
189	Foxconn	PIFA	IPEX	TX1: 2.39	TX1: DQ6V4TS3100 (WDAN-HQV4TS31-DH)
190	Foxconn	PIFA	IPEX	TX1: -0.52 TX2: 2.89	TX1: DQ6V7TS3300 (WDAN-HQV7TS33-DH) TX2: DQ6V7TS3300 (WDAN-HQV7TS33-DH)
191	JESS-LINK	PIFA	IPEX	TX1: -0.97 TX2: -1.03	TX1: DQ613A00032 (PANT13A00008-6) TX2: DQ613A00032 (PANT13A00008-6)
192	JESS-LINK	PIFA	IPEX	TX1: -0.03	TX1: DQ613A00033 (PANT13A00007-9)
193	JESS-LINK	PIFA	IPEX	TX1: -1.46 TX2: -0.43	TX1: DQ613A00024 (PANT13A00008-8) TX2: DQ613A00024 (PANT13A00008-8)
194	JESS-LINK	PIFA	IPEX	TX1: 0.29	TX1: DQ613A00025 (PANT13A00008-2)
195	JESS-LINK	PIFA	IPEX	TX1: -0.40 TX2: 0.40	TX1: DQ613A00028 (PANT13A00008-4) TX2: DQ613A00028 (PANT13A00008-4)
196	JESS-LINK	PIFA	IPEX	TX1: 0.93	TX1: DQ613A00029 (PANT13A00007-7)
197	TONGDA	PIFA	IPEX	TX1: 0.04 TX2: -1.22	TX1: DC33001H800 / T-543-9001008-1 TX2: DC33001H810 / T-543-9001008-2
198	WNC	PIFA	IPEX	TX1: -0.02 TX2: 2.24	TX1: DC33001H900 / 81EAAK15.GCC TX2: DC33001H910 / 81EAAK15.GCD
199	Yageo	PIFA	IPEX	TX1: 0.67 TX2: -0.83	TX1: DC33001HB00 / ANTA0HC08231WLAN1 TX2: DC33001HB10 / ANTA0HC08231WLAN2
200	ACON	PIFA	IPEX	TX1: -1.36 TX2: -1.53	TX1: 6036B0110902 (APP8P-700479) TX2: 6036B0111002 (APP8P-700480)
201	WNC	PIFA	IPEX	TX1: -0.75 TX2: 1.05	TX1: 6036B0110901 (81EAAK15.G66) TX2: 6036B0111001 (81EAAK15.G67)

202	Smart Approach	PIFA	IPEX	TX1: 0.93 TX2: -0.55	TX1: DC33001HF00/ SE-ECS41-001 TX2: DC33001HF10/ SE-ECS41-002
203	TONGDA	PIFA	IPEX	TX1: 0.74 TX2: -0.07	TX1: DC33001HE00 / T-543-9001007-1 TX2: DC33001HE10 / T-543-9001007-2
204	WNC	PIFA	IPEX	TX1: 0.39 TX2: 0.27	TX1: DC33001HD00/ 81EAAK15.GCA TX2: DC33001HD10/ 81EAAK15.GCB
205	SIMYA	PIFA	IPEX	TX1: 1.30 TX2: -0.65	TX1: DQ601001400 TX2: DQ601001400
206	SIMYA	PIFA	IPEX	TX1: 0.72	TX1: DQ601001500
207	SIMYA	PIFA	IPEX	TX1: -1.82 TX2: 1.86	TX1: DQ601001200 TX2: DQ601001200
208	SIMYA	PIFA	IPEX	TX1: 1.27	TX1: DQ601001300
209	SIMYA	PIFA	IPEX	TX1: 2.23 TX2: 1.38	TX1: DQ601001800 TX2: DQ601001800
210	SIMYA	PIFA	IPEX	TX1: 0.18	TX1: DQ601001900
211	SIMYA	PIFA	IPEX	TX1: 2.23	TX1: DQ601001700
212	SIMYA	PIFA	IPEX	TX1: 0.04 TX2: 0.38	TX1: DQ601001000 TX2: DQ601001000
213	SIMYA	PIFA	IPEX	TX1: 1.60	TX1: DQ601001100
214	SIMYA	PIFA	IPEX	TX1: -0.79 TX2: 1.62	TX1: DQ601000800 TX2: DQ601000800
215	SIMYA	PIFA	IPEX	TX1: 2.20	TX1: DQ601000900
216	ACON	PIFA	IPEX	TX1: 0.51	TX1: 6036B0121903 (APP6P-701022)
217	Smart Approach	PIFA	IPEX	TX1: -0.55	TX1: 6036B0121901 (SE-EISW4-001)
218	SIMYA	PIFA	IPEX	TX1: 2.23 TX2: 1.38	TX1: DQ601001600 TX2: DQ601001600
219	WNC	PIFA	IPEX	TX1: 2.59	TX1: DQ6R15G1000 (81EAAR15.G10)
220	WNC	PIFA	IPEX	TX1: 0.83	TX1: DQ6R15G5400 (81EAAR15.G54)
221	WNC	PIFA	IPEX	TX1: -0.14 TX2: -0.24	TX1: DQ6R15G1100 (81EAAR15.G11) TX2: DQ6R15G1100 (81EAAR15.G11)
222	WNC	PIFA	IPEX	TX1: -0.67	TX1: DQ6R15G1200 (81EAAR15.G12)
223	WNC	PIFA	IPEX	TX1: -0.23 TX2: 0.96	TX1: DQ6R15G1300 (81EAAR15.G13) TX2: DQ6R15G1300 (81EAAR15.G13)
224	WNC	PIFA	IPEX	TX1: 1.22	TX1: DQ6R15G1400 (81EAAR15.G14)
225	WNC	PIFA	IPEX	TX1: 1.29 TX2: 1.99	TX1: DQ6R15G1500 (81EAAR15.G15) TX2: DQ6R15G1500 (81EAAR15.G15)

226	WNC	PIFA	IPEX	TX1: 1.52	TX1: DQ6R15G1600 (81EAAR15.G16)
227	WNC	PIFA	IPEX	TX1: -0.91 TX2: 1.99	TX1: DQ6R15G1700 (81EAAR15.G17) TX2: DQ6R15G1700 (81EAAR15.G17)
228	WNC	PIFA	IPEX	TX1: 2.45	TX1: DQ6R15G1800 (81EAAR15.G18)
229	WNC	PIFA	IPEX	TX1: 0.80 TX2: 0.01	TX1: DQ6R15G5600 (81EAAR15.G56) TX2: DQ6R15G5600 (81EAAR15.G56)
230	WNC	PIFA	IPEX	TX1: 2.33	TX1: DQ6R15G5700 (81EAAR15.G57)
231	WNC	PIFA	IPEX	TX1: 0.46 TX2: 2.13	TX1: DQ6R15G0900 (81EAAR15.G09) TX2: DQ6R15G0900 (81EAAR15.G09)
232	Cortec	PIFA	IPEX	TX1: 1.48	TX1: 1750007265-01
233	WGT	PIFA	IPEX	TX1: -0.49 TX2: -1.48	TX1: SK210WIPB03+A TX2: SK210WIPB03+A
234	Well Green	PIFA	IPEX	TX1: 1.07 TX2: 1.80	TX1: 0ACCL014001N TX2: 0ACCL014001N
235	WGT	PIFA	IPEX	TX1: 1.35 TX2: 2.45	TX1: SK510WIPB01+C TX2: SK510WIPB01+C
236	WGT	PIFA	IPEX	TX1: 1.67 TX2: -0.1	TX1: 0ACCLE14001N TX2: 0ACCLE14001N
237	WNC	PIFA	IPEX	TX1: 0.25 TX2: 0.18	TX1: 81.EKX15.G23 TX2: 81.EKX15.G23
238	SA	PIFA	IPEX	TX1: 1.51 TX2: 0.15	TX1: SE-ECS30-001 TX2: SE-ECS30-002
239	TONGDA	PIFA	IPEX	TX1: 2.51 TX2: 1.32	TX1: T-543-9021024-1 TX2: T-543-9021024-2
240	SPEEDWIRE	PIFA	IPEX	TX1: -1.05 TX2: 0.75	TX1: UJ2004-P3-340 TX2: UJ2004-P3-340
241	Smart Approach	PIFA	IPEX	TX1: 0.87 TX2: 0.97	TX1: SE-ECS13-001 TX2: SE-ECS13-001
242	Yageo	PIFA	IPEX	TX1: 0.36 TX2: 1.51	TX1: CAN4313LC0682WXA1 TX2: CAN4313LC0682WXA1
243	JEM	PIFA	IPEX	TX1: 1.95 TX2: 0.32	TX1: IAH-140039 (25CA0-180002-J3R) TX2: IAH-140040 (25CA0-190000-J3R)
244	HONGLIN	PIFA	IPEX	TX1: 1.31	DQ602356400
245	JESS-LINK	PIFA	IPEX	TX1: -0.73	DQ613A00016
246	HONGLIN	PIFA	IPEX	TX1: -0.18 TX2: -0.68	TX1: 260-23495 TX2: 260-23494

247	WNC	PIFA	IPEX	TX1: 2.01 TX2: 1.44	TX1: 81.EEW15.GDA TX2: 81.EEW15.GDB
248	HONGLIN	PIFA	IPEX	TX1: -0.13 TX2: -1.02	TX1: 260-23497 TX2: 260-23496
249	WNC	PIFA	IPEX	TX1: 1.14 TX2: 1.45	TX1: 81.EEW15.GDC TX2: 81.EEW15.GDD
250	ACON	PIFA	IPEX	TX1: -0.20 TX2: -1.68	TX1: 6036B0121903 (APP6P-701022) TX2: 6036B0121803 (APP6P-701023)
251	Smart Approach	PIFA	IPEX	TX1: -2.27 TX2: -0.21	TX1: 6036B0121901 (SE-EISW4-001) TX2: 6036B0121801 (SE-EISW4-002)
252	ACON	PIFA	IPEX	TX1: -1.73 TX2: -2.91	TX1: 6036B0123701 (APP6P-701061) TX2: 6036B0123601 (APP6P-701062)
253	SA	PIFA	IPEX	TX1: -0.58 TX2: 0.94	TX1: 6036B0123703 (SE-EISW5-001) TX2: 6036B0123603 (SE-EISW5-002)
254	WNC	PIFA	IPEX	TX1: -1.50 TX2: -0.48	TX1: DC33001K310 (81EAAR15.G37) TX2: DC33001K300 (81EAAR15.G38)
255	ADVANCED-CO NNECTEK	PIFA	IPEX	TX1: 0.29 TX2: -0.59	TX1: DC33001JV10/ APP6P-701104 TX2: DC33001JV00/ APP6P-701105
256	HuiZhou Speed Wire	PIFA	IPEX	TX1: 0.78 TX2: 0.81	TX1: DC33001KO10 / F.0G.FP-6003-002 TX2: DC33001KO00 / F.0G.FP-6003-001
257	Yageo	PIFA	IPEX	TX1: -1.19 TX2: 0.30	TX1: DC33001JZ10 / ANTA0HC08601WLAN3 TX2: DC33001JZ00 / ANTA0HC08601WLAN4
258	ACON	PIFA	IPEX	TX1: 0.61 TX2: 1.16	TX1: DC33001JU10 / APP6P-701100 TX2: DC33001JU00 / APP6P-701101
259	HuiZhou Speed Wireless	PIFA	IPEX	TX1: -2.47 TX2: -1.82	TX1: DC33001KN10 / F.0G.FP-6002-002 TX2: DC33001KN00 / F.0G.FP-6002-001
260	WNC	PIFA	IPEX	TX1: 1.09 TX2: -0.01	TX1: DC33001K210 (81EAAR15.G31) TX2: DC33001K200 (81EAAR15.G32)
261	Yageo	PIFA	IPEX	TX1: -0.35 TX2: -2.07	TX1: DC33001JY10 / ANTA0HC08591WLAN3 TX2: DC33001JY00 / ANTA0HC08591WLAN4
262	WNC	PIFA	IPEX	TX1: -0.95 TX2: 0.46	TX1: DC33001K410 (81EAAR15.G41) TX2: DC33001K400 (81EAAR15.G42)
263	ACON	PIFA	IPEX	TX1: -1.04 TX2: 1.45	TX1: DC33001JX10 / APP6P-701106 TX2: DC33001JX00 / APP6P-701107
264	HuiZhou Speed Wireless	PIFA	IPEX	TX1: 1.63 TX2: 0.19	TX1: DC33001KP10 / F.0G.FP-6004-002 TX2: DC33001KP00 / F.0G.FP-6004-001

265	Yageo	PIFA	IPEX	TX1: -1.37 TX2: 1.58	TX1: DC33001K010 / ANTA0HC08611WLAN1 TX2: DC33001K000 / ANTA0HC08611WLAN2
266	WNC	PIFA	IPEX	TX1: -0.76 TX2: -0.99	TX1: DC33001K110 (81EAAR15.G25) TX2: DC33001K100 (81EAAR15.G26)
267	ACON	PIFA	IPEX	TX1: -0.63 TX2: -1.61	TX1: DC33001JT10 / APP6P-701096 TX2: DC33001JT00 / APP6P-701097
268	HuiZhou Speed Wireless	PIFA	IPEX	TX1: -0.01 TX2: -0.73	TX1: DC33001KM10 / F.0G.FP-6001-002 TX2: DC33001KM00 / F.0G.FP-6001-001
269	Yageo	PIFA	IPEX	TX1: -2.61 TX2: -2.06	TX1: DC33001JW10 / ANTA0HC08581WLAN3 TX2: DC33001JW00 / ANTA0HC08581WLAN4
270	WNC	PIFA	IPEX	TX1: 0.92 TX2: 0.83	TX1: DQ6R15G7300 (81EAAR15.G73) TX2: DQ6R15G7300 (81EAAR15.G73)
271	Luxshare	PIFA	IPEX	TX1: 1.57 TX2: -1.49	TX1: L01RF051-DT-R TX2: L01RF052-DT-R
272	Luxshare	PIFA	IPEX	TX1: 1.7 TX2: -0.93	TX1: L01RF054-DT-R TX2: L01RF053-DT-R
273	Hong Lin	PIFA	IPEX	TX1: 0.38 TX2: 0.82	TX1: DC330160300 TX2: DC330160310
274	HONGLIN	PIFA	IPEX	TX1: 1.51 TX2: 1.83	TX1: DC330160400 TX2: DC330160410
275	ACON	PIFA	IPEX	TX1: 0.61 TX2: 0.22	APP6P-701052
276	ACON	PIFA	IPEX	TX1: 0.23 TX2: 1.15	APP6P-701188
277	JEM	PIFA	IPEX	TX1: 2.74 TX2: 1.06	IA130052
278	JEM	PIFA	IPEX	TX1: 2.75 TX2: 0.37	IA-130380
279	Speed	PIFA	IPEX	TX1: 1.87 TX2: -0.09	TX1: F.0G.FS-6004-001 (025.9003S.0001) TX2: F.0G.FS-6004-002 (025.9003T.0001)
280	WNC	PIFA	IPEX	TX1: 1.90 TX2: 1.94	TX1: 025.9003Q.0001 (81.EBC15.GAH) TX2: 025.9003R.0001 (81.EBC15.GAJ)
281	Luxshare	PIFA	IPEX	TX1: 0.45 TX2: 0.49	TX1: L01RF049-YT-R TX2: L01RF050-YT-R

282	Luxshare	PIFA	IPEX	TX1: -1.9 TX2: -3.82	TX1: L01RF058-DT-R TX2: L01RF057-DT-R
283	Luxshare	PIFA	IPEX	TX1: 1.7 TX2: -0.93	TX1: L01RF054-DT-R TX2: L01RF053-DT-R
284	LUXSHARE	PIFA	IPEX	TX1: 1.94 TX2: 1.03	TX1: DC330017N00 TX2: DC330017N10
285	SPEED	PIFA	IPEX	TX1: -0.74 TX2: 1.95	TX1: DC330017P00 TX2: DC330017P10
286	HONGLIN	PIFA	IPEX	TX1: 1.93 TX2: 2.39	TX1: DC330159900 TX2: DC330159910
287	LUXSHARE	PIFA	IPEX	TX1: 0.37 TX2: 1.50	TX1: DC330017S00 TX2: DC330017S10
288	SPEED	PIFA	IPEX	TX1: 2.05 TX2: 0.85	TX1: DC330017T00 TX2: DC330017T10
289	HONGLIN	PIFA	IPEX	TX1: 1.0 TX2: 1.38	TX1: DC330160100 TX2: DC330160110
290	Yageo	PIFA	IPEX	TX1: -0.62	TX1: DQ600912100/ ANTA0HQ09121WLAN1
291	HONGLIN	PIFA	IPEX	TX1: 1.81	TX1: DQ602360500
292	ACON	PIFA	IPEX	TX1: 1.82 TX2: 1.22	TX1: APP6P-701194 TX2: APP6P-701194
293	JEM	PIFA	IPEX	TX1: 2.73 TX2: 2.45	TX1: IAH-140030 TX2: IAH-140030
294	JEM	PIFA	IPEX	TX1: 2.88 TX2: 2.98	TX1: IAH-140030 TX2: IAH-140030
295	ACON	PIFA	IPEX	TX1: 1.82 TX2: 1.22	TX1: APP6P-701194 TX2: APP6P-701194
296	WGT	PIFA	IPEX	TX1: 1.84 TX2: 2.23	TX1: SK330WIPB01+B TX2: SK330WIPB01+B
297	Smart Approach	PIFA	IPEX	TX1: 1.19 TX2: 1.74	TX1: SE-ECA10-001 TX2: SE-ECA10-002
298	TONGDA	PIFA	IPEX	TX1: 2.66 TX2: -0.48	TX1: DC33001M000 / T-543-9021035-1 TX2: DC33001M010 / T-543-9021035-2
299	Smart Approach	PIFA	IPEX	TX1: 1.45 TX2: 1.61	TX1: SE-ECVY3-001 TX2: SE-ECVY3-001
300	TONGDA	PIFA	IPEX	TX1: 1.79 TX2: 0.60	TX1: T-543-9021013-A TX2: T-543-9021013-A

301	HIGH-TEK	PIFA	IPEX	TX1: 0.52 TX2: -0.10	TX1: 0ACCN013037 TX2: 0ACCN013037
302	Luxshare	PIFA	IPEX	TX1: -1.9 TX2: -3.82	TX1: L01RF058-DT-R TX2: L01RF057-DT-R
303	Luxshare	PIFA	IPEX	TX1: 1.7 TX2: -0.93	TX1: L01RF054-DT-R TX2: L01RF053-DT-R
304	Speed Wire	PIFA	IPEX	TX1: 0.28 TX2: -1.26	TX1: DC330018500 TX2: DC330018510
305	Speed Wire	PIFA	IPEX	TX1: 0.29 TX2: -0.11	TX1: DC330018300 TX2: DC330018310
306	Yageo	PIFA	IPEX	TX1: 1.92 TX2: -2.84	TX1: DC330018100 TX2: DC330018110
307	Yageo	PIFA	IPEX	TX1: 1.70 TX2: 1.67	TX1: DC330018200 TX2: DC330018210
308	SPEED	PIFA	IPEX	TX1: -0.59 TX2: -1.02	TX1: DC330018900 TX2: DC330018910
309	LUXSHARE	PIFA	IPEX	TX1: -2.01 TX2: -0.28	TX1: DC330018700 TX2: DC330018710
310	HLN	PIFA	IPEX	TX1: 1.28	TX1: DQ602361100
311	WNC	PIFA	IPEX	TX1: 2.55	TX1: DQ6R15GBP00 (81EAAR15.GBP)
312	Yageo	PIFA	IPEX	TX1: -0.86	TX1: DQ609221W00 / ANTA0DP09221WLAN2
313	JESS-LINK	PIFA	IPEX	TX1: -1.70 TX2: -0.64	TX1: DQ614A00011 (PANT14A00003-2) TX2: DQ614A00011 (PANT14A00003-2)
314	WNC	PIFA	IPEX	TX1: -1.48 TX2: -2.32	TX1: DQ6R15GAB00 (81EAAR15.GAB) TX2: DQ6R15GAB00 (81EAAR15.GAB)
315	WNC	PIFA	IPEX	TX1: 1.09 TX2: 0.51	TX1: DQ6R15GAA00 (81EAAR15.GAA) TX2: DQ6R15GAA00 (81EAAR15.GAA)
316	WNC	PIFA	IPEX	TX1: 1.85	TX1: DC33001ID60/81EAAR15.GBV
317	WNC	PIFA	IPEX	TX1: -2.16	TX1: DC33001ID60 ; 81EAAR15.GBV
318	Yageo	PIFA	IPEX	TX1: -1.62 TX2: -1.95	TX1: DQ600917200 / ANTA0HQ9172WLAN1 TX2: DQ600917200 / ANTA0HQ9172WLAN1
319	WNC	PIFA	IPEX	TX1: -0.88 TX2: -1.00	TX1: 81EAAR15.GBL (DQ6R15GBL00) TX2: 81EAAR15.GBL (DQ6R15GBL00)
320	Yageo	PIFA	IPEX	TX1: -1.62	TX1: DQ600917100 / ANTA0HQ9171WLAN3
321	HLN	PIFA	IPEX	TX1: 2.21 TX2: 0.69	TX1: DQ602361300 TX2: DQ602361300

322	Yageo	PIFA	IPEX	TX1: -0.86 TX2: -1.08	TX1: DQ609222W00 / ANTA0DP09222WLAN3 TX2: DQ609222W00 / ANTA0DP09222WLAN3
323	WNC	PIFA	IPEX	TX1: 0.39 TX2: -0.38	TX1: DQ6R15GCB00 (81EAAR15.GCB) TX2: DQ6R15GCB00 (81EAAR15.GCB)
324	HONGLIN	PIFA	IPEX	TX1: -1.46	DQ602356200
325	JESS-LINK	PIFA	IPEX	TX1: -0.24	DQ613A00018
326	Aristotle	PIFA	IPEX	TX1: 0.84 TX2: 0.04	TX1: RFA-25-G153C-70-100 TX2: RFA-25-G153D-70B-280
327	WNC	PIFA	IPEX	TX1: -2.92	TX1: DQ6R15GBS00 (81EAAR15.GBS)
328	ACON	PIFA	IPEX	TX1: -1.5 TX2: 0.12	TX1: APP6P- 701299 TX2: APP6P- 701300
329	HLN	PIFA	IPEX	TX1: 2.29 TX2: 2.35	TX1: 260-27067 TX2: 260-27068
330	Speed Wireless	PIFA	IPEX	TX1: 0.43 TX2: -0.22	TX1: DC330018520 TX2: DC330018530
331	ACON	PIFA	IPEX	TX1: 1.85 TX2: 2.20	TX1: APP6P-701232 TX2: APP6P-701233
332	JEM	PIFA	IPEX	TX1: 1.37 TX2: -0.96	TX1: 6-23-7P650-041 TX2: 6-23-7P650-051
333	WGT	PIFA	IPEX	TX1: -0.68 TX2: -0.76	TX1: SKP65WIPB01+A TX2: SKP65WIPB02+A
334	WGT	PIFA	IPEX	TX1: -2.6 TX2: 0.05	TX1: SKP75WIPB01+A TX2: SKP75WIPB02+A
335	WGT	PIFA	IPEX	TX1: 0.89 TX2: -1.02	TX1: SKP77WIPB01+A TX2: SKP75WIPB02+A
336	High-Tek	PIFA	IPEX	TX1: -2.3 TX2: -3.64	TX1: DC33001NE00/ 0ACCN014016N TX2: DC33001NE10/ 0ACCN014017N
337	SIMYA	PIFA	IPEX	TX1: 2.38 TX2: 2.31	TX1: DC33001ND00/ 210-02008 TX2: DC33001ND10/ 210-02009
338	TONGDA	PIFA	IPEX	TX1: 1.41 TX2: 1.53	TX1: DC33001NG00/ T-543-9021060-1 TX2: DC33001NG10/ T-543-9021060-2
339	ACON	PIFA	IPEX	TX1: -1.13 TX2: -1.66	TX1: APP6Y-700151 TX2: APP6Y-700151
340	HIGH-TEK	PIFA	IPEX	TX1: 0.28 TX2: -0.12	TX1: 0ACCN014011N TX2: 0ACCN014011N

341	HLN	PIFA	IPEX	TX1: 0.03 TX2: 1.21	TX1: 260-24046 TX2: 260-24046
342	Yageo	PIFA	IPEX	TX1: 1.31 TX2: -1.35	TX1: 1415-040A000/ ANTA0Z09021WLAN1 TX2: 1415-0407000/ ANTA0Z09021WLAN2
343	WGT	PIFA	IPEX	TX1: -1.19 TX2: 0.18	TX1: SKSU2WIPB01+A TX2: SKSU2WIPB01+A
344	WGT	PIFA	IPEX	TX1: 0.3 TX2: -1.16	TX1: SK94AWIPB01+A TX2: SK94AWIPB02+A
345	WGT	PIFA	IPEX	TX1: -1.14 TX2: 0.60	TX1: SK95AWIPB01+A TX2: SK95AWIPB01+A
346	Yageo	PIFA	IPEX	TX1: 1.18 TX2: 0.22	TX1: DC330018220 TX2: DC330018230
347	JESS-LINK	PIFA	IPEX	TX1: -1.13 TX2: -1.95	TX1: DC330019500 / PANT12A00002-5 TX2: DC330019510/ PANT12A00002-6
348	VSO	Dipole	IPEX	TX1: 2.9	TX1: 821-111-02660020
349	HLN	PIFA	IPEX	TX1: 2.19 TX2: 1.98	TX1: DQ602327700 TX2: DQ602327700
350	Inno Wave	PIFA	IPEX	TX1: -0.95 TX2: -1.19	TX1: DQ60QTIL101 TX2: DQ60QTIL101
351	SANAV	PIFA	IPEX	TX1: 2.97 TX2: 0.93	TX1: GEPH-023 TX2: GEPH-048
352	Well Green	PIFA	IPEX	TX1: 0.23 TX2: -1.23	TX1: SKN15WIPB01+B TX2: SKN15WIPB01+B
353	JEM	PIFA	IPEX	TX1: 2.00 TX2: -0.92	TX1: 6-23-7N170-010 TX2: 6-23-7N170-020
354	ACON	PIFA	IPEX	TX1: 1.08 TX2: -0.33	TX1: DC33001NS00 / APP6Y-700054 TX2: DC33001NS00 / APP6Y-700054
355	HONGLIN	PIFA	IPEX	TX1: 0.91 TX2: 0.94	TX1: 260-24055 TX2: 260-24055
356	WNC	PIFA	IPEX	TX1: -1.51 TX2: -0.45	TX1: DC33001O600 (81EAAS15.G72) TX2: DC33001O600 (81EAAS15.G72)
357	ARISTOTLE	Dipole	IPEX	TX1: 2.59 TX2: 2.03	TX1: 25CA0-260000-A5S TX2: 25CA0-180001-A5S
358	ARISTOTLE	Dipole	IPEX	TX1: 2	TX1: RFA-25-T42-M10-N
359	JESS-LINK	PIFA	IPEX	TX1: -0.05 TX2: 0.50	TX1: PANT14A00008-5 TX2: PANT14A00008-5

360	Tongda	PIFA	IPEX	TX1: 1.46 TX2: -1.58	TX1: DQ690210203 TX2: DQ690210202
361	WNC	PIFA	IPEX	TX1: -0.64 TX2: -1.56	TX1: DQ6G15G7900 TX2: DQ6G15G7800
362	Tongda	PIFA	IPEX	TX1: 0.79 TX2: -1.57	TX1: DQ690210201 TX2: DQ690210200
363	WNC	PIFA	IPEX	TX1: 0.12 TX2: -2.16	TX1: DQ6G15G8100 TX2: DQ6G15G8000
364	Innowave	PIFA	IPEX	TX1: 1.97 TX2: 1.23	TX1: 640-INNEP0041-A TX2: 640-INNEP0040-A
365	ARISTOTLE	PIFA	IPEX	TX1: 1.12 TX2: 0.29	TX1: RFA-25-G153-70-130AU (25CA0-130000-A5S) TX2: RFA-25-G153-70B180MA (25CA0-180004-A5S)
366	SPEED	PIFA	IPEX	TX1: 1.03 TX2: 1.52	TX1: F.0G.FN-6027-001 TX2: F.0G.FN-6027-001
367	ACON	PIFA	IPEX	TX1: -0.78 TX2: -0.54	TX1: DC33001N50L (APP6Y-700179) TX2: DC33001N50L (APP6Y-700179)
368	WNC	PIFA	IPEX	TX1: 0.08 TX2: -1.10	TX1: 81EAAZ15.13 TX2: 81EAAZ15.13
369	YAGEO	PIFA	IPEX	TX1: -0.63 TX2: -0.11	TX1: ANTA0DC09362WLAN1 /DC33001N40L TX2: ANTA0DC09362WLAN1 /DC33001N40L
370	SPEED	PIFA	IPEX	TX1: 0.24 TX2: -0.31	TX1: F.0G.FN-6029-001 TX2: F.0G.FN-6029-002
371	ACON	PIFA	IPEX	TX1: 0.01 TX2: -0.62	TX1: DC33001N60L (APP6Y-700 173) TX2: DC33001N61L (APP6Y-700 174)
372	SPEED	PIFA	IPEX	TX1: 0.19 TX2: -1.05	TX1: F.0G.FN-6028-001 TX2: F.0G.FN-6028-002
373	ACON	PIFA	IPEX	TX1: -1.42 TX2: -2.45	TX1: DC33001N6 2L (APP6Y-700175) TX2: DC33001N6 3L (APP6Y-700176)
374	YAGEO	PIFA	IPEX	TX1: -1.01 TX2: -1.70	TX1: ANTA0DC09371WLAN1 / DC33001N70L TX2: ANTA0DC09371WLAN2 / DC33001N71L
375	YAGEO	PIFA	IPEX	TX1: -0.62 TX2: -1.49	TX1: ANTA0DC09371WLAN3/ DC33001N72L TX2: ANTA0DC09371WLAN4 / DC33001N73L
376	ACON	PIFA	IPEX	TX1: -0.73 TX2: -0.57	TX1: DC33001N11L (APP6Y -700178) TX2: DC33001N11L (APP6Y -700178)

377	WNC	PIFA	IPEX	TX1: -0.75 TX2: 1.25	TX1: 81EAAZ15.G16 TX2: 81EAAZ15.G16
378	SPEED	PIFA	IPEX	TX1: -0.93 TX2: 1.2	TX1: F.0G.FN-6026-001 TX2: F.0G.FN-6026-001
379	YAGEO	PIFA	IPEX	TX1: -0.44 TX2: -0.80	TX1: ANTA0DC09352WLAN2 /DC33001N01L TX2: ANTA0DC09352WLAN2 /DC33001N01L
380	ACON	PIFA	IPEX	TX1: 0.78 TX2: -0.96	TX1: DC33001N10L (APP6Y-700177) TX2: DC33001N10L (APP6Y-700177)
381	WNC	PIFA	IPEX	TX1: -0.27 TX2: 2.34	TX1: 81EAAZ15.G15 TX2: 81EAAZ15.G15
382	SPEED	PIFA	IPEX	TX1: -0.62 TX2: 2.00	TX1: F.0G.FN-6025-001 TX2: F.0G.FN-6025-001
383	YAGEO	PIFA	IPEX	TX1: -0.07 TX2: -0.15	TX1: ANTA0DC09352WLAN1 /DC33001N00L TX2: ANTA0DC09352WLAN1 /DC33001N00L
384	ACON	PIFA	IPEX	TX1: -1.55 TX2: -1.82	TX1: APP6Y-700245 TX2: APP6Y-700245
385	JESS-LINK	PIFA	IPEX	TX1: 1.12 TX2: -0.16	TX1: DQ614A00004 TX2: DQ614A00003
386	ACON	PIFA	IPEX	TX1: 1.25 TX2: 1.16	TX1: APP6P-701144 TX2: APP6P-701144
387	WNC	PIFA	IPEX	TX1: 1.95 TX2: 2.77	TX1: 81EAAX15.G01 TX2: 81EAAX15.G01
388	ACON	PIFA	IPEX	TX1: 0.01	TX1: APP6P-701318
389	High-Tek	PIFA	IPEX	TX1: -0.46	TX1: 0ACCN014025N
390	WNC	PIFA	IPEX	TX1: 0.97	TX1: 81.EKY15.G25
391	ACON	PIFA	IPEX	TX1: 1.14	TX1: DC33001PQ00 /APP6P-70 1319
392	TONGDA	PIFA	IPEX	TX1: 1.41	TX1: T-543 -9021072-1
393	WNC	PIFA	IPEX	TX1: 1.94	TX1: 81.EKY15.G26
394	Yageo	PIFA	IPEX	TX1: 0.07	TX1: DQ609532W00/ ANTA0HQ09532WLAN
395	ACON	PIFA	IPEX	TX1: -0.43	TX1: DQ60APP6Y11 (APP6Y-700229)
396	ACON	PIFA	IPEX	TX1: 0.87 TX2: -0.92	TX1: 025.9009J.0011 (APP6Y-700236) TX2: 025.9009K.0011 (APP6Y-700237)
397	ACON	PIFA	IPEX	TX1: -0.12 TX2: -1.45	TX1: 025.9009N.0011 (APP6Y-700240) TX2: 025.9009O.0011 (APP6Y-700241)
398	WNC	PIFA	IPEX	TX1: 2.71 TX2: 2.37	TX1: 81.EEW15.GGN TX2: 81.EEW15.GGM

399	Honglin	PIFA	IPEX	TX1: 1.12 TX2: 0.28	TX1: 260-23619 TX2: 260-23618
400	ACON	PIFA	IPEX	TX1: -0.63 TX2: -0.29	TX1: ADM6Y-100000 TX2: ADM6Y-100001
401	ACON	PIFA	IPEX	TX1: -1.25 TX2: -0.54	TX1: 6036B0152201 (APP6Y- 700324) TX2: 6036B0152301 (APP6Y- 700323)
402	HONGLIN	PIFA	IPEX	TX1: -0.66 TX2: -0.89	TX1: 6036B0150601 (260-24067) TX2: 6036B0150501 (260-24066)
403	Yageo	PIFA	IPEX	TX1: 0.51 TX2: 0.21	TX1: 6036B0152501 (ANTA0HV10181WLAN2) TX2: 6036B0152401 (ANTA0HV10181WLAN1)
404	WNC	PIFA	IPEX	TX1: 0.05 TX2: -1.16	TX1: 025.9008Y.0001 (81EAAR15.GBW) TX2: 025.9008Z.0001 (81EAAR15.GBX)
405	WNC	PIFA	IPEX	TX1: -1.80 TX2: 1.21	TX1: 025.90093.0011 (81EAAR15.GCN) TX2: 025.90094.0011 (81EAAR15.GCP)
406	HONGLIN	PIFA	IPEX	TX1: 1.21	TX1: DQ602363100 (260-23631)
407	HONGLIN	PIFA	IPEX	TX1: 2.32	TX1: DQ602363200 (260-23632)
408	HONGLIN	PIFA	IPEX	TX1: 2.00	TX1: DQ602363300 (260-23633)
409	HONGLIN	PIFA	IPEX	TX1: 2.17	TX1: DQ602362600 (260-23626)
410	HONGLIN	PIFA	IPEX	TX1: -1.25	TX1: DQ602362900 (260-23629)
411	HONGLIN	PIFA	IPEX	TX1: -0.73	TX1: DQ602363000 (260-23630)
412	WNC	PIFA	IPEX	TX1: -0.92 TX2: -1.65	TX1: 504993-001 TX2: 504993-001
413	WNC	PIFA	IPEX	TX1: -0.81 TX2: -1.55	TX1: 807669-001(for M.2 WLAN connector) TX2: 807669-001(for M.2 WLAN connector)
414	WNC	PIFA	IPEX	TX1: -0.92	TX1: 600050-001
415	WNC	PIFA	IPEX	TX1: -0.81	TX1: 807669-001 (for M.2 WLAN connector)
416	JESS-LINK	PIFA	IPEX	TX1: 0.29	TX1: DQ613A00025 (PANT13A00008-2)
417	JESS-LINK	PIFA	IPEX	TX1: 0.18	TX1: DQ614A00019 / PANT14A00005-2
418	JESS-LINK	PIFA	IPEX	TX1: 2.47	TX1: DQ614A00021 / PANT14A00005-3
419	JESS-LINK	PIFA	IPEX	TX1: -0.05	TX1: DQ614A00017 (PANT14A00005-8)
420	ACON	PIFA	IPEX	TX1: 0.32 TX2: -1.15	TX1: 025.9009H.0001 (APP6Y-700219) TX2: 025.9009I.0001 (APP6Y-700220)
421	WNC	PIFA	IPEX	TX1: 1.68 TX2: 2.30	TX1: 81.EEW15.GJK TX2: 81.EEW15.GJJ
422	Honglin	PIFA	IPEX	TX1: 2.65 TX2: 2.51	TX1: 260-23627 TX2: 260-23628

423	SIMYA	PIFA	IPEX	TX1: 0.18	TX1: DQ601001900 (210-10019)
424	SIMYA	PIFA	IPEX	TX1: 2.23	TX1: DQ601001700 (210-10017)
425	SIMYA	PIFA	IPEX	TX1: -0.20	TX1: DQ601006100 (210-10061)
426	SIMYA	PIFA	IPEX	TX1: -0.15	TX1: DQ601006500 (210-10065)
427	SIMYA	PIFA	IPEX	TX1: 0.25	TX1: DQ601006300 (210-10063)
428	SIMYA	PIFA	IPEX	TX1: 0.01	TX1: DQ601005900 (210-10059)
429	SIMYA	PIFA	IPEX	TX1: 0.18	TX1: DQ601006900 ((210-10069)
430	SIMYA	PIFA	IPEX	TX1: 1.14	TX1: DQ601006700 ((210-10067)
431	WNC	PIFA	IPEX	TX1: -0.20 TX2: -2.85	TX1: 025.9009J.0001 (81EAAR15.GCU) TX2: 025.9009K.0001 (81EAAR15.GCV)
432	WNC	PIFA	IPEX	TX1: -1.67 TX2: -2.00	TX1: 025.9009N.0001 (81EAAR15.GDL) TX2: 025.9009O.0001 (81EAAR15.GDM)
433	WNC	PIFA	IPEX	TX1: 1.52	TX1: DQ6R15G1600 (81EAAR15.G16)
434	WNC	PIFA	IPEX	TX1: 2.45	TX1: DQ6R15G1800 (81EAAR15.G18)
435	WNC	PIFA	IPEX	TX1: -3.42	TX1: DQ6R15GEB00 (81EAAR15.GEB)
436	Yageo	PIFA	IPEX	TX1: 0.10	TX1: DQ600945100/ANTA0HQ09451WLAN1
437	Yageo	PIFA	IPEX	TX1: 1.04	TX1: DQ600946100/ANTA0HQ09461WLAN1
438	Yageo	PIFA	IPEX	TX1: -1.18	TX1: DQ600947100/ANTA0HQ09471WLAN1
439	Yageo	PIFA	IPEX	TX1: 1.12	TX1: DQ600948100/ANTA0HQ09481WLAN1
440	HIGH-TEK	PIFA	IPEX	TX1: 0.50 TX2: -0.56	TX1: 0ACAR012004N TX2: 0ACAR012005N
441	WNC	PIFA	IPEX	TX1: 0.67 TX2: 0.17	TX1: 25.90AKI.001 (81.EJP15.G31) TX2: 25.90AKJ.001 (81.EJP15.G32)
442	ACON	PIFA	IPEX	TX1: 1.93	TX1: APP6Y-700184 (HP: 800216-001)
443	ACON	PIFA	IPEX	TX1: 2.08	TX1: APP6Y-700185 (HP: 800217-001)
444	INPAQ	PIFA	IPEX	TX1: 0.75	TX1: WA-M-LB-02-063 (HP: 800216-001)
445	INPAQ	PIFA	IPEX	TX1: 2.26	TX1: WA-M-LB-02-064 (HP: 800217-001)
446	ACON	PIFA	IPEX	TX1: 1.97	TX1: APP6Y-700162 (HP: 800114-001)
447	ACON	PIFA	IPEX	TX1: 2.02	TX1: APP6Y-700163 (HP: 800115-001)
448	INPAQ	PIFA	IPEX	TX1: 1.2	TX1: WA-M-LB-02-050(HP: 800114-001)
449	INPAQ	PIFA	IPEX	TX1: 1.59	TX1: WA-M-LB-02-052(HP: 800115-001)
450	ACON	PIFA	IPEX	TX1: 1.97	TX1: APP6Y-700162 (HP: 800114-001)
451	ACON	PIFA	IPEX	TX1: 1.93	TX1: APP6Y-700169 (HP: 800117-001)
452	ACON	PIFA	IPEX	TX1: 1.91	TX1: APP6Y-700206 (HP: 800120-001)
453	ACON	PIFA	IPEX	TX1: 1.90	TX1: APP6Y-700208 (HP: 800122-001)
454	INPAQ	PIFA	IPEX	TX1: 1.2	TX1: WA-M-LB-02-050(HP: 800114-001)
455	INPAQ	PIFA	IPEX	TX1: -1.31	TX1: WA-M-LB-02-062(HP: 800117-001)

456	INPAQ	PIFA	IPEX	TX1: 2.54	TX1: WA-M-LB-02-071(HP: 800120-001)
457	INPAQ	PIFA	IPEX	TX1: -0.2	TX1: WA-M-LB-02-072(HP: 800122-001)
458	ACON	PIFA	IPEX	TX1: 2.17 TX2: 2.79	TX1: APP6Y-700329 TX2: APP6Y-700330
459	INPAQ	PIFA	IPEX	TX1: 2.60 TX2: 2.18	TX1: WA-F-LB-02-039 TX2: WA-F-LB-01-020
460	Well Green	PIFA	IPEX	TX1: 0.3 TX2: -1.16	TX1: SK94LWIPB01+A TX2: SK94LWIPB02+B
461	High-Tek	PIFA	IPEX	TX1: 1.07 TX2: 1.80	TX1: 0ACCL015001N TX2: 0ACCL015001N
462	Well Green	PIFA	IPEX	TX1: 1.35 TX2: 2.45	TX1: SK51LWIPB01+A TX2: SK51LWIPB01+A
463	Well Green	PIFA	IPEX	TX1: -1.14 TX2: 0.60	TX1: SK95LWIPB01+C TX2: SK95LWIPB01+C
464	Well Green	PIFA	IPEX	TX1: -1.14 TX2: 0.60	TX1: SK95LWIPB02+A TX2: SK95LWIPB02+A
465	Well Green	PIFA	IPEX	TX1: 0.2 TX2: -0.29	TX1: SK97LWIPB01+B TX2: SK97LWIPB02+C
466	ACON	PIFA	IPEX	TX1: 1.36 TX2: 0	TX1: APP6Y-700045 TX2: APP6Y-700045
467	WNC	PIFA	IPEX	TX1: -2.20 TX2: -1.36	TX1: 812046-001 (81XCAE15.G31) TX2: 812046-001 (81XCAE15.G31)
468	YAGEO	PIFA	IPEX	TX1: -0.93 TX2: -0.98	TX1: ANTA0DC08372WLAN1 TX2: ANTA0DC08372WLAN1
469	ACON	PIFA	IPEX	TX1: -0.13 TX2: -1.17	TX1: APP6Y-700046 TX2: APP6Y-700046
470	SIMYA	PIFA	IPEX	TX1: 2.54 TX2: 2.19	TX1: 210-10094 TX2: 210-10100
471	INPAQ	PIFA	IPEX	TX1: 0.67 TX2: -1.52	TX1: WA-P-LB-02-243 TX2: WA-P-LB-01-123
472	ACON	PIFA	IPEX	TX1: -0.11 TX2: 0.76	TX1: APP8P-700406 TX2: APP8P-700549
473	Luxshare-ICT	PIFA	IPEX	TX1: -1.51 TX2: -2.01	TX1: ASAP /LA05RF818-1H TX2: ASAP/LA05RF817-1H
474	Luxshare-ICT	PIFA	IPEX	TX1: -2.6	TX1: LA05RF828-1H
475	TONGDA GROUP	PIFA	IPEX	TX1: 0.26	TX1: T-543-3010290-1

476	ACON	PIFA	IPEX	TX1: -0.51 TX2: -2.68	TX1: APP6Y-700251 TX2: APP6Y-700251
477	INPAQ	PIFA	IPEX	TX1: -0.36 TX2: -2.8	TX1: WA-M-LBLB-04-013 TX2: WA-M-LBLB-04-013
478	ACON	PIFA	IPEX	TX1: -1.67 TX2: -1.33	TX1: N1P6Y-200001 TX2: N1P6Y-200001
479	ACON	PIFA	IPEX	TX1: 0.61 TX2: -2.75	TX1: N1P6Y-200000 TX2: N1P6Y-200000
480	WNC	PIFA	IPEX	TX1: 1.58 TX2: 0.66	TX1: DQ6S15G7300 (81EAAS15.G73) TX2: DQ6S15G7300 (81EAAS15.G73)
481	WNC	PIFA	IPEX	TX1: 0.45 TX2: -0.65	TX1: DQ6S15G7700 (81EAAS15.G77) TX2: DQ6S15G7700 (81EAAS15.G77)
482	SIMYA	PIFA	IPEX	TX1: 0.79 TX2: -0.65	TX1: DQ601008900 TX2: DQ601008900
483	SIMYA	PIFA	IPEX	TX1: -1.37 TX2: -0.88	TX1: DQ601009700 TX2: DQ601009700
484	ACON	PIFA	IPEX	TX1: -0.44 TX2: -1.09	TX1: APP6Y-700261 TX2: APP6Y-700261
485	WNC	PIFA	IPEX	TX1: 1.64 TX2: -0.95	TX1: DQ6S15G7400 TX2: 81EAAS15.G74
486	HONGLIN	PIFA	IPEX	TX1: -0.09 TX2: -0.30	TX1: DQ602353200 (260-23532) TX2: DQ602353200 (260-23532)
487	HONGLIN	PIFA	IPEX	TX1: 1.31 TX2: 0.03	TX1: DQ602353000 TX2: DQ602353000
488	ACON	PIFA	IPEX	TX1: 1.63 TX2: -0.09	TX1: APM6Y-700007 / 025.9008D.0001 TX2: APM6Y-700008 / 025.9008E.0001
489	Innowave	PIFA	IPEX	TX1: 1.12 TX2: 1.50	TX1: 025.9008H.0001 640-INNEP0044-A TX2: 025.9008I.0001 640-INNEP0045-A
490	SPEED	PIFA	IPEX	TX1: 2.85 TX2: 1.55	TX1: F.0G.FS -6012 -001 (025. 9008S .0001) TX2: F.0G.FS -6012 -002 (025. 9008T .0001)
491	ACON	PIFA	IPEX	TX1: 1.87 TX2: 0.46	TX1: APM6Y-700009 / 025.9008F.0001 TX2: APM6Y-700010 / 025.9008G.0001
492	Innowave	PIFA	IPEX	TX1: 0.72 TX2: 1.06	TX1: 640-INNEP0046-A / 025.9008J.0001 TX2: 640-INNEP0047-A / 025.9008K.0001

493	SPEED	PIFA	IPEX	TX1: 0.22 TX2: 1.21	TX1: F.0G.FS-6013-001 / 025.9008U.0001 TX2: F.0G.FS-6013-002 / 025.9008V.0001
494	ACON	PIFA	IPEX	TX1: -1.72 TX2: -2.52	TX1: APP6Y-700167 TX2: APP6Y-700167
495	ACON	PIFA	IPEX	TX1: -0.84 TX2: -1.87	TX1: APP6Y-700171 TX2: APP6Y-700171
496	WNC	PIFA	IPEX	TX1: 1.14 TX2: -1.51	TX1: 81EAAZ15.G02 TX2: 81EAAZ15.G02
497	WNC	PIFA	IPEX	TX1: -0.70 TX2: -1.19	TX1: 81EAAZ15.G03 TX2: 81EAAZ15.G03
498	WNC	PIFA	IPEX	TX1: 1.95 TX2: 2.77	TX1: 81EAAZ15.G01 TX2: 81EAAZ15.G01
499	ACON	PIFA	IPEX	TX1: 1.99 TX2: 0.89	TX1: AMM8P-700038 TX2: AMM8P-700038
500	WNC	PIFA	IPEX	TX1: 1.00 TX2: 1.38	TX1: 81EAAZ15.G19 TX2: 81EAAZ15.G19
501	ACON	PIFA	IPEX	TX1: -0.65 TX2: 1.05	TX1: APP6Y-700170 TX2: APP6Y-700170
502	WNC	PIFA	IPEX	TX1: -0.41 TX2: 0.51	TX1: 81EAAZ15.G35 TX2: 81EAAZ15.G35
503	ACON	PIFA	IPEX	TX1: 1.81 TX2: 0.02	TX1: APP6Y-700119 TX2: APP6Y-700119
504	WNC	PIFA	IPEX	TX1: 2.97 TX2: 0.04	TX1: 81EAAZ15.G25 TX2: 81EAAZ15.G25
505	Acon	PIFA	IPEX	TX1: -0.08	TX1: DC33001PH00/ APP6Y-700321
506	Acon	PIFA	IPEX	TX1: 0.54	TX1: DC33001PH10/ APP6Y-700322
507	HONGLIN	PIFA	IPEX	TX1: 0.08	TX1: DC33001PJ00 / 260-24090
508	HONGLIN	PIFA	IPEX	TX1: 1.17	TX1: DC33001PJ10 / 260-24089
509	TONGDA	PIFA	IPEX	TX1: -0.01	TX1: DC33001O700 / T-543-9001066-1
510	TONGDA	PIFA	IPEX	TX1: -0.05	TX1: DC33001O710 / T-543-9001067-1
511	WNC	PIFA	IPEX	TX1: 2.46	TX1: DC33001O900 (81EAAZ15.GD9)
512	WNC	PIFA	IPEX	TX1: 2.34	TX1: DC33001O910 (81EAAZ15.GEA)
513	ACON	PIFA	IPEX	TX1: 0.69 TX2: 2.02	TX1: APP8Y-700002 TX2: APP8Y-700001
514	ACON	PIFA	IPEX	TX1: -1.29 TX2: -0.35	TX1: DC33001OO20 / APP8Y-700004 TX2: DC33001OO30 / APP8Y-700003

515	ACON	PIFA	IPEX	TX1: -0.78 TX2: -1.34	TX1: DC33001OO00 / APP8Y-700006 TX2: DC33001OO10 / APP8Y-700005
516	WNC	PIFA	IPEX	TX1: 1.16 TX2: 0.94	TX1: DC33001OM00/ 81EAAR15.GDU TX2: DC33001OM10 / 81EAAR15.GDV
517	WNC	PIFA	IPEX	TX1: -0.92 TX2: 0.87	TX1: DC33001OC20 /81EAAR15.GDY TX2: DC33001OC30 / 81EAAR15.GDZ
518	WNC	PIFA	IPEX	TX1: 0.82 TX2: 0.54	TX1: DC33001OC00 / 81EAAR15.GD1 TX2: DC33001OC10 / 81EAAR15.GD2
519	ACON	PIFA	IPEX	TX1: -0.19 TX2: -1.72	TX1: DC330010X00 / APP6Y-700269 TX2: DC330010X10 / APP6Y-700268
520	ACON	PIFA	IPEX	TX1: 1.52 TX2: -0.19	TX1: DC33001OX20 / APP6Y-700266 TX2: DC33001OX30 / APP6Y-700267
521	WNC	PIFA	IPEX	TX1: -1.66 TX2: -3.65	TX1: DC33001OP00 / 81EAAR15.GD3 TX2: DC33001OP10 / 81EAAR15.GD4
522	WNC	PIFA	IPEX	TX1: -2.30 TX2: -2.47	TX1: DC33001OP20 / 81EAAR15.GD5 TX2: DC33001OP30 / 81EAAR15.GD6
523	ACON	PIFA	IPEX	TX1: -0.27 TX2: 0.92	TX1: APP6Y-700195 (HP: 819542-001) TX2: APP6Y-700195(HP: 819542-001)
524	INPAQ	PIFA	IPEX	TX1: 2.37 TX2: 2.66	TX1: WA-M-LB-10-014 (HP: 819542-001) TX2: WA-M-LB-10-014 (HP: 819542-001)
525	ACON	PIFA	IPEX	TX1: 1.41 TX2: 1.75	TX1: APP6Y-700188(HP: 820321-001) TX2: APP6Y-700188(HP: 820321-001)
526	INPAQ	PIFA	IPEX	TX1: 0.78 TX2: 0.78	TX1: WA-M-LB-10-013 (HP: 820321-001) TX2: WA-M-LB-10-013 (HP: 820321-001)
527	WNC	PIFA	IPEX	TX1: 0.24 TX2: -0.49	TX1: 504993-001 (81.EEW15.018) TX2: 504993-001 (81.EEW15.018)
528	WNC	PIFA	IPEX	TX1: -0.01 TX2: 2.39	TX1: 81EAAX15.G36 (DC33001IG1L) TX2: 81EAAX15.G36 (DC33001IG1L)
529	Speedwire	PIFA	IPEX	TX1: -0.45 TX2: -0.67	TX1: F.0G.FN-6006-001 TX2: F.0G.FN-6006-001
530	WNC	PIFA	IPEX	TX1: 0.70 TX2: 2.08	TX1: DC33001IK0L (81EAAX15.G03) TX2: DC33001IK0L (81EAAX15.G03)
531	WNC	Dipole	IPEX	TX1: -0.45 TX2: 1.26	TX1: 497317-003 (81XCAA15.G03) TX2: 497317-003 (81XCAA15.G03)
532	YAGEO	PIFA	IPEX	TX1: -2.13 TX2: -0.38	TX1: ANTA0DC10322WLAN1/ DC33001IH1L TX2: ANTA0DC10322WLAN1/ DC33001IH1L

533	JEM	PIFA	IPEX	TX1: 3.48 TX2: 2.07	TX1: 1510-0137-0001 TX2: 1510-0137-0002
534	INPAQ	PIFA	IPEX	TX1: -1.91	TX1: WA-P-LB-02-239
535	HONGLIN	PIFA	IPEX	TX1: -1.48 TX2: -0.90	TX1: DQ602364300 TX2: DQ602364300
536	JESS-LINK	PIFA	IPEX	TX1: -0.24 TX2: -0.99	TX1: DQ615A00001 TX2: DQ615A00001
537	WGT	PIFA	IPEX	TX1: -0.09 TX2: 0.28	TX1: SK240WIPB01+A TX2: SK240WIPB02+A
538	ACON	PIFA	IPEX	TX1: 1.56 TX2: 0.42	TX1: ANP6Y-100026 TX2: ANP6Y-100027
539	Yageo	PIFA	IPEX	TX1: 0.55 TX2: -0.96	TX1: ANTA0ZP10391WLAN1 TX2: ANTA0ZP10391WLAN2
540	SPEED	PIFA	IPEX	TX1: -1.49 TX2: -1.26	TX1: F.0G.FH-6016-001 TX2: F.0G.FH-6016-001
541	YAGEO	PIFA	IPEX	TX1: -1.45 TX2: -3.02	TX1: ANTA0DC09352WLAN3/ DC33001N02L TX2: ANTA0DC09352WLAN3/ DC33001N02L
542	ACON	PIFA	IPEX	TX1: 0.08 TX2: 0.43	TX1: ANP6Y-200004 TX2: ANP6Y-200004
543	HONGLIN	PIFA	IPEX	TX1: 1.29 TX2: 0.59	TX1: DQ602364200 TX2: DQ602364200
544	JESS-LINK	PIFA	IPEX	TX1: -0.73 TX2: -1.82	TX1: DQ615A00002 TX2: DQ615A00002
545	Luxshare-ICT	PIFA	IPEX	TX1: -2.1 TX2: -2.1	TX1: LA05RF838-1H TX2: LA05RF837-1H
546	Luxshare-ICT	PIFA	IPEX	TX1: -0.84 TX2: -2.37	TX1: LA05RF841-1H TX2: LA05RF842-1H
547	SPEED	PIFA	IPEX	TX1: 2.85 TX2: 1.55	TX1: F.0G.FS-6012-001 / 025.9008S.0001 TX2: F.0G.FS-6012-002 / 025.9008T.0001
548	ACON	PIFA	IPEX	TX1: 1.80 TX2: 1.98	TX1: 025.900AV.0001 / APM6Y-700018 TX2: 025.900AW.0001 / APM6Y-700019
549	INNOWAVE	PIFA	IPEX	TX1: 1.60 TX2: 1.87	TX1: 640-INNEP0050-A / 025.900A0.0001 TX2: 640-INNEP0051-A / 025.900A1.0001
550	SPEED	PIFA	IPEX	TX1: 1.86 TX2: 1.17	TX1: F.0G.FS-6014-001 / 025.900A4.0001 TX2: F.0G.FS-6014-002 / 025.900A5.0001
551	SPEED	PIFA	IPEX	TX1: -0.64 TX2: 0.3	TX1: F.0G.FS-6015-001 / 025.900AX.0001 TX2: F.0G.FS-6015-002 / 025.900AY.0001

552	ACON	PIFA	IPEX	TX1: 1.79 TX2: 1.94	TX1: ADM6Y-100002 / 025.900BA.0001 TX2: ADM6Y-100003 / 025.900BB.0001
553	SPEED	PIFA	IPEX	TX1: -2.68 TX2: 0.03	TX1: F.0G.FS-6016-001 / 025.900BC.0001 TX2: F.0G.FS-6016-002 / 025.900BD.0001
554	ACON	PIFA	IPEX	TX1: -1.02 TX2: 1.43	TX1: APM6Y-700016 / 025.900AZ.0001 TX2: APM6Y-700017 / 025.900B0.0001
555	SPEED	PIFA	IPEX	TX1: -0.49 TX2: 0.46	TX1: F.0G.FS-6016-001 / 025.900B1.0001 TX2: F.0G.FS-6016-002 / 025.900B2.0001
556	WNC	PIFA	IPEX	TX1: 2.85 TX2: 2.12	TX1: DQ6W15GH600 (81.EEW15.GH6) TX2: DQ6W15GH600 (81.EEW15.GH6)
557	WNC	PIFA	IPEX	TX1: 2.85	TX1: DQ6W15GH700(81.EEW15.GH7)
558	ACON	PIFA	IPEX	TX1: 2.03 TX2: 2.79	TX1: ANP6Y-100033 TX2: ANP6Y-100032
559	INPAQ	PIFA	IPEX	TX1: 2.56 TX2: 2.55	TX1: WA-F-LB-02-048 TX2: WA-F-LB-01-026
560	INPAQ	PIFA	IPEX	TX1: 0.85 TX2: 0.48	TX1: WA-P-LB-02-238 TX2: WA-P-LB-01-125
561	INPAQ	PIFA	IPEX	TX1: 0.17 TX2: -2.44	TX1: WA-P-LB-02-252 TX2: WA-P-LB-01-124
562	ACON	PIFA	IPEX	TX1: -1.64	TX1: ADM6Y-100008
563	WNC	PIFA	IPEX	TX1: 1.94 TX2: 1.76	TX1: DC33001RB00/ 81EAAR15.GDQ TX2: DC33001RB10 / 81EAAR15.GDR
564	INPAQ	PIFA	IPEX	TX1: -0.82 TX2: -1.99	TX1: WA-P-LB-02-239 TX2: WA-P-LB-02-254
565	WNC	PIFA	IPEX	TX1: -2.45	TX1: DQ6R15GFK00 /81EAAR15.GFK
566	WNC	PIFA	IPEX	TX1: 1.48 TX2: -0.37	TX1: 025.9008Y.0001 (81EAAR15.GBW) TX2: 025.9008Z.0001 (81EAAR15.GBX)
567	WNC	PIFA	IPEX	TX1: -0.32 TX2: -0.51	TX1: 025.9008Y.0001 (81EAAR15.GBW) TX2: 025.9008Z.0001 (81EAAR15.GBX)
568	WNC	PIFA	IPEX	TX1: 2.85 TX2: 2.12	TX1: DQ6W15GH600 (81.EEW15.GH6) TX2: DQ6W15GH600 (81.EEW15.GH6)
569	WNC	PIFA	IPEX	TX1: 2.85	TX1: DQ6W15GH700 (81.EEW15.GH7)

570	Yageo	PIFA	IPEX	TX1: 1.34 TX2: -0.43	TX1: 6036B0133001 /ANTA0HV08821WLAN1 TX2: 6036B0133301 /ANTA0HV08821WLAN2
571	Yageo	PIFA	IPEX	TX1: -1.03 TX2: -0.86	TX1: 6036B0143801 /ANTA0HV08821WLAN3 TX2: 6036B0143901 /ANTA0HV08821WLAN4
572	WNC	PIFA	IPEX	TX1: -4.84 TX2: -4.92	TX1: 6036B0132901 TX2: 6036B0133201
573	WNC	PIFA	IPEX	TX1: -4.46 TX2: -2.39	TX1: 6036B0143601 TX2: 6036B0143701
574	HONGLIN	PIFA	IPEX	TX1: 0.51	TX1: DQ602364100
575	HONGLIN	PIFA	IPEX	TX1: 0.33	TX1: DQ602364200
576	SIMYA	PIFA	IPEX	TX1: -0.04	TX1: DQ601010300
577	SIMYA	PIFA	IPEX	TX1: -1.29	TX1: DQ601010500
578	ACON	PIFA	IPEX	TX1: 1.62 TX2: 1.06	TX1: 6036B0149201 (APP6Y-700303) TX2: 6036B0149301 (APP6Y-700304)
579	WNC	PIFA	IPEX	TX1: 0.76 TX2: 1.41	TX1: 6036B0149203 / 81EAAR15.GC4 TX2: 6036B0149303 / 81EAAR15.GC5
580	ACON	PIFA	IPEX	TX1: 1.93 TX2: 2.57	TX1: APP6Y-700180 (HP: 800210-001) TX2: APP6Y-700180 (HP: 800210-001)
581	ACON	PIFA	IPEX	TX1: 2.08 TX2: 1.23	TX1: APP6Y-700181 (HP: 800211-001) TX2: APP6Y-700181 (HP: 800211-001)
582	INPAQ	PIFA	IPEX	TX1: 0.75 TX2: -0.73	TX1: WA-C-LB-10-002 (HP: 800210-001) TX2: WA-C-LB-10-002 (HP: 800210-001)
583	INPAQ	PIFA	IPEX	TX1: 2.26 TX2: -0.16	TX1: WA-C-LB-10-003 (HP: 800211-001) TX2: WA-C-LB-10-003 (HP: 800211-001)
584	INPAQ	PIFA	IPEX	TX1: 1.9	TX1: DQ6LB022600/ WA-P-LB-02-265
585	Yageo	PIFA	IPEX	TX1: -0.10	TX1: DQ609991W00/ ANTA0HQ09991WLAN1
586	ACON	PIFA	IPEX	TX1: -1.04 TX2: -1.24	TX1: 6036B0148601 (APP6Y-700307) TX2: 6036B0148701 (APP6Y-700308)
587	WNC	PIFA	IPEX	TX1: -1.67 TX2: -1.39	TX1: 6036B0148603 TX2: 6036B0148703
588	ACON	PIFA	IPEX	TX1: -1.86 TX2: -1.56	TX1: 6036B0148501 (APP6Y-700311) TX2: 6036B0149601 (APP6Y-700312)
589	Yageo	PIFA	IPEX	TX1: -0.92 TX2: -1.36	TX1: 6036B0148502/ ANTA0HV10161WLAN3 TX2: 6036B0149602 /ANTA0HV10161WLAN4
590	WNC	PIFA	IPEX	TX1: 0.98 TX2: -0.28	TX1: 025.900E0.0001 (81EAAR15.GFQ) TX2: 025.900E1.0001 (81EAAR15.GFR)

591	WNC	PIFA	IPEX	TX1: -0.82 TX2: -0.27	TX1: 025.900E0.0001 (81EAAR15.GFQ) TX2: 025.900E1.0001 (81EAAR15.GFR)
592	INPAQ	PIFA	IPEX	TX1: 1.51	TX1: DQ60PLB0221 / WA-P-LB-02-245
593	JESS-LINK	PIFA	IPEX	TX1: -0.01	TX1: DQ614A00033 / PANT14A00007-7
594	SIMYA	PIFA	IPEX	TX1: 1.32	TX1: DQ601008201 / 210-10082
595	Yageo	PIFA	IPEX	TX1: -0.29	TX1: DQ601007101/ ANTA0HQ10071WLAN1
596	INPAQ	PIFA	IPEX	TX1: 0.79	TX1: DQ60PLB0222 / WA-P-LB-02-246
597	JESS-LINK	PIFA	IPEX	TX1: 0.50	TX1: DQ614A00034 / PANT14A00007-8
598	SIMYA	PIFA	IPEX	TX1: -0.03	TX1: DQ601008400 / 210-10084
599	Yageo	PIFA	IPEX	TX1: 0.35	TX1: DQ601009101/ ANTA0HQ10091WLAN1
600	INPAQ	PIFA	IPEX	TX1: 1.03	TX1: DQ60PLB0223 / WA-P-LB-02-247
601	INPAQ	PIFA	IPEX	TX1: 0.8	TX1: DQ60PLB0224 / WA-P-LB-02-248
602	JESS-LINK	PIFA	IPEX	TX1: 1.35	TX1: DQ614A00037 / PANT14A00007-5
603	JESS-LINK	PIFA	IPEX	TX1: 1.38	TX1: DQ614A00039 / PANT14A00007-6
604	SIMYA	PIFA	IPEX	TX1: 0.29	TX1: DQ601007700 / 210-10077
605	SIMYA	PIFA	IPEX	TX1: 1.65	TX1: DQ601007900 / 210-10079
606	INPAQ	PIFA	IPEX	TX1: 2.63	TX1: DQ600224900 / WA-P-LB-02-249
607	JESS-LINK	PIFA	IPEX	TX1: 1.17	TX1: DQ614A00043 / PANT14A00007-9
608	SIMYA	PIFA	IPEX	TX1: 1.32	TX1: DQ601008600 / 210-10086
609	INPAQ	PIFA	IPEX	TX1: 1.42	TX1: DQ60PLB0219 / WA-P-LB-02-241
610	INPAQ	PIFA	IPEX	TX1: 2.08	TX1: DQ60PLB0220 / WA-P-LB-02-242
611	JESS-LINK	PIFA	IPEX	TX1: 1.08	TX1: DQ614A00027 / PANT14A00007-3
612	JESS-LINK	PIFA	IPEX	TX1: 0.83	TX1: DQ614A00030 / PANT14A00007-4
613	SIMYA	PIFA	IPEX	TX1: -1.07	TX1: DQ601007200 / 210-10072
614	SIMYA	PIFA	IPEX	TX1: 0.02	TX1: DQ601007400 / 210-10074
615	Yageo	PIFA	IPEX	TX1: -1.42	TX1: DQ609971W00 / ANTA0HQ09971WLAN1
616	JEM	PIFA	IPEX	TX1: 2.31 TX2: 1.31	TX1: DQ601300012 (1510-0130-0020) TX2: DQ601300012 (1510-0130-0020)
617	JEM	PIFA	IPEX	TX1: 2.31	TX1: DQ601300013 (1510-0130-0019)
618	LUXSHARE-ICT	PIFA	IPEX	TX1: 1.81 TX2: 1.13	TX1: DC33001EL00 TX2: DC33001EL10
619	Speed	PIFA	IPEX	TX1: 0.77 TX2: 3.02	TX1: DC33001EF00 TX2: DC33001EF10
620	INPAQ	PIFA	IPEX	TX1: 1.4 TX2: 1.9	TX1: DQ6LB100400/ WA-P-LB-10-041 TX2: DQ6LB100400/ WA-P-LB-10-041
621	Hua Cheng	PIFA	IPEX	TX1: -0.07	TX1: 0ACAU015003N

622	ACON	PIFA	IPEX	TX1: 1.10	TX1: ANP6Y-200005
623	Yageo	PIFA	IPEX	TX1: -0.23 TX2: -0.59	TX1: ANTA0ZP09131WLAN3 TX2: ANTA0ZP09131WLAN4
624	Luxshare-ICT	PIFA	IPEX	TX1: 1.81 TX2: 0.40	TX1: DC33001EN00 TX2: DC33001EN10
625	Speed	PIFA	IPEX	TX1: -0.09 TX2: 1.05	TX1: DC33001EM00 TX2: DC33001EM10
626	INPAQ	PIFA	IPEX	TX1: 2.04	TX1: WA-P-LB-02-263
627	WGT	PIFA	IPEX	TX1: 0.4 TX2: -0.72	TX1: SKP87WIPB01+A TX2: SK240WIPB04+A
628	High-Tek	PIFA	IPEX	TX1: -0.78 TX2: -1.91	TX1: 0ACCL015003N TX2: 0ACCL015002N
629	WGT	PIFA	IPEX	TX1: 0.35 TX2: 0.33	TX1: SKP87WIPB01+A TX2: SKP87WIPB02+A
630	WGT	PIFA	IPEX	TX1: 1.18 TX2: 1.59	TX1: SK51UWIPB01+B TX2: SK51UWIPB02+B
631	WGT	PIFA	IPEX	TX1: 0.42 TX2: -0.13	TX1: SK65RWIPB01+A TX2: SK65RWIPB01+A
632	WGT	PIFA	IPEX	TX1: 1.48 TX2: 1.15	TX1: SK67RWIPB01+A TX2: SK67RWIPB02+A
633	ACON	PIFA	IPEX	TX1: -0.32 TX2: 0.37	TX1: APM6Y-700020 TX2: APM6Y-700020
634	Foxconn	PIFA	IPEX	TX1: -0.59 TX2: -0.65	TX1: ANTS2M1-CDA01-EF TX2: ANTS2M1-CDA01-EF
635	ACON	PIFA	IPEX	TX1: -2.1 TX2: -2.3	TX1: ADP6Y-100003 TX2: ADP6Y-100004
636	ACON	PIFA	IPEX	TX1: 0.5 TX2: 0.09	TX1: APP6Y-700127 TX2: APP6Y-700132
637	ACON	PIFA	IPEX	TX1: -0.17 TX2: 0.58	TX1: APP6Y-700139 TX2: APP6Y-700140
638	Foxconn	Dipole	IPEX	TX1: -1.36 TX2: -1.52	TX1: ANTP2M1-CZZ03-EF TX2: ANTP2M1-CZZ03-EF
639	LUXSHARE-ICT	Dipole	IPEX	TX1: 0.67 TX2: 1.67	TX1: L01RF005-R TX2: L01RF005-R
640	ACON	PIFA	IPEX	TX1: -1.88 TX2: -0.92	TX1: ANP6Y-200013 TX2: ANP6Y-200013

641	ACON	PIFA	IPEX	TX1: 0.56 TX2: -0.66	TX1: ANP6Y-200012 TX2: ANP6Y-200012
642	WNC	PIFA	IPEX	TX1: 1.71 TX2: 1.44	TX1: DQ6R15GF100 (81EAAR15.GF1) TX2: DQ6R15GF100 (81EAAR15.GF1)
643	B&T	PIFA	IPEX	TX1: 1.96 TX2: 2.11	TX1: NC140BW2-R TX2: NC140BW2-L
644	LUXSHARE-ICT	PIFA	IPEX	TX1: -2.6	TX1: LA05RF828-1H
645	LUXSHARE-ICT	PIFA	IPEX	TX1: -2.17	TX1: LA05RF829-1H
646	Shenzhen South Star	PIFA	IPEX	TX1: 0.95 TX2: 1.02	TX1: 64451201900040 TX2: 64451201900030
647	TongDa	PIFA	IPEX	TX1: 0.26	TX1: T-543-3010290-1
648	INPAQ	PIFA	IPEX	TX1: 0.06	TX1: WA-P-LB-02-226
649	WNC	PIFA	IPEX	TX1: -0.02 TX2: 1.53	TX1: 81EAAZ15.G54 TX2: 81EAAZ15.G54
650	WNC	PIFA	IPEX	TX1: -0.07 TX2: -0.9	TX1: 025.900FS.0001 (81.EAAZ15.G49) TX2: 025.900FS.0001 (81.EAAZ15.G49)
651	ACON	PIFA	IPEX	TX1: -2.1 TX2: -2.3	TX1: ADP6Y-100003 TX2: ADP6Y-100004
652	ACON	PIFA	IPEX	TX1: 2.38 TX2: 1.56	TX1: APM6Y-700021 TX2: APM6Y-700021
653	WGT	PIFA	IPEX	TX1: -0.31 TX2: -0.64	TX1: SKP64WIPB01+A TX2: SKP64WIPB02+A
654	WGT	PIFA	IPEX	TX1: -0.10 TX2: 1.12	TX1: SKP77WIPB01+A TX2: SK5DMWIPB02+A
655	ARISTOTLE	PIFA	IPEX	TX1: 0.04 TX2: 0.84	TX1: RFA-25-G153D-70B-290 TX2: RFA-25-G153C-70-90
656	ARISTOTLE	PIFA	IPEX	TX1: -0.67 TX2: -0.75	TX1: RFA-25-G153D-70-185 TX2: RFA-25-G171H-70B-145
657	ARISTOTLE	PIFA	IPEX	TX1: -3.18 TX2: -2.04	TX1: RFA-25-G176A-4-G-90 TX2: RFA-25-G176M-4-B-180
658	LUXSHARE-ICT	PIFA	IPEX	TX1: 0.7 TX2: -3.4	TX1: LA05RF869-1H TX2: LA05RF869-1H

659	HONGLIN	PIFA	IPEX	TX1: -0.37 TX2: -1.50	TX1: 260-26087 TX2: 260-26088
660	LUXSHARE-ICT	PIFA	IPEX	TX1: -2.6	TX1: LA05RF847-1H
661	INPAQ	PIFA	IPEX	TX1: 0.56 TX2: 0.57	TX1: WA-F-LBLB-04-036 TX2: WA-F-LBLB-04-036
662	INPAQ	PIFA	IPEX	TX1: 1.25 TX2: 0.33	TX1: WA-P-LBLB-04-027 TX2: WA-P-LBLB-04-027
663	INPAQ	PIFA	IPEX	TX1: 0.52 TX2: 1.54	TX1: WA-P-LB-02-325 (025.900HG.0001) TX2: WA-P-LB-02-324 (025.900HF.0001)
664	INPAQ	PIFA	IPEX	TX1: 0.76 TX2: 1.35	TX1: WA-P-LB-02-325 (025.900HG.0001) TX2: WA-P-LB-02-324 (025.900HF.0001)
665	INPAQ	PIFA	IPEX	TX1: -0.37 TX2: 0.31	TX1: WA-P-LB-02-329(025.900GV.0001) TX2: WA-P-LB-02-330(025.900H3.0001)
666	INPAQ	PIFA	IPEX	TX1: 0.58 TX2: -0.41	TX1: WA-P-LB-02-329(025.900GV.0001) TX2: WA-P-LB-02-330(025.900H3.0001)
667	ACON	PIFA	IPEX	TX1: -2.54 TX2: -2.81	TX1: 6036B0168601(ADM6Y-100011) TX2: 6036B0168701(ADM6Y-100012)
668	ACON	PIFA	IPEX	TX1: -1.81 TX2: -0.16	TX1: 6036B0168601(ADM6Y-100011) TX2: 6036B0168701(ADM6Y-100012)
669	INPAQ	PIFA	IPEX	TX1: 0.66 TX2: -0.19	TX1: 6036B0172001(WA-M-LB-02-132) TX2: 6036B0172101(WA-M-LB-02-133)
670	INPAQ	PIFA	IPEX	TX1: 0.66 TX2: -0.06	TX1: 6036B0172001(WA-M-LB-02-132) TX2: 6036B0172101(WA-M-LB-02-133)
671	Tongda	PIFA	IPEX	TX1: 0.68 TX2: -0.60	TX1: 6036B0172101(T-543-9001094-1) TX2: 6036B0171801(T-543-9001094-2)
672	HONGLIN	PIFA	IPEX	TX1: -1.88 TX2: -2.21	TX1: 260-26102 TX2: 260-26101
673	InnoWave	PIFA	IPEX	TX1: 2.56 TX2: 2.34	TX1: 025.900GB.0001 (640 -INNEP0070-A) TX2: 025.900GC.0001 (640 -INNEP0071-A)
674	SPEED	PIFA	IPEX	TX1: 0.46 TX2: 0.88	TX1: 025.900HJ.0001 (F.0G.FS-6026-001-00) TX2: 025.900HK.0001 (F.0G.FS-6026-002-00)
675	Jieng-Tai	PIFA	IPEX	TX1: -1.27 TX2: -1.02	TX1: DQ600033801 TX2: DQ600033801
676	WNC	PIFA	IPEX	TX1: 1.37 TX2: 1.79	TX1: DQ6415G0300 TX2: DQ6415G0300

677	WNC	PIFA	IPEX	TX1: 0.21 TX2: 0.22	TX1: 6036B0154501 TX2: 6036B0154601
678	WNC	PIFA	IPEX	TX1: 0.72 TX2: 0.98	TX1: 6036B0154801 TX2: 6036B0155001
679	Yageo	PIFA	IPEX	TX1: -0.89 TX2: -2.11	TX1: 6036B0154201 TX2: 6036B0154001
680	Yageo	PIFA	IPEX	TX1: 0.50 TX2: -0.46	TX1: 6036B0153601 TX2: 6036B0153501
681	HLN	PIFA	IPEX	TX1: 0.56	TX1: DQ602364800
682	Jieng-Tai	PIFA	IPEX	TX1: 2.85	TX1: DQ600034000
683	Yageo	PIFA	IPEX	TX1: 2.54	TX1: DQ601074100
684	ACON	PIFA	IPEX	TX1: -1.55	TX1: DC33001UG00
685	HLN	PIFA	IPEX	TX1: 0.20 TX2: 0.89	TX1: DC33001U710 TX2: DC33001H910
686	SA	PIFA	IPEX	TX1: 0.65 TX2: 1.54	TX1: DC33001UD00 TX2: DC33001UD10
687	TONGDA	PIFA	IPEX	TX1: 0.83 TX2: 0.48	TX1: T-543 -9001066-4 TX2: T-543 -9001066-3
688	WNC	PIFA	IPEX	TX1: 1.24	TX1: DC33001UF00
689	ACON	PIFA	IPEX	TX1: -1.25 TX2: -0.54	TX1: 6036B0152201 TX2: 6036B0152301
690	HL	PIFA	IPEX	TX1: -0.66 TX2: -0.89	TX1: 6036B0150601 TX2: 6036B0150501
691	YAGEO	PIFA	IPEX	TX1: 0.51 TX2: 0.21	TX1: 6036B0152501 TX2: 6036B0152401
692	Inno Wave	PIFA	IPEX	TX1: 2.58 TX2: 1.29	TX1: 025.900JI.0001 TX2: 025.900JJ.0001
693	SPEED	PIFA	IPEX	TX1: -0.44 TX2: -0.42	TX1: 025.900JK.0001 TX2: 025.900JL.0001
694	Honglin	PIFA	IPEX	TX1: 1.72 TX2: 2.74	TX1: 260-23653 TX2: 260-23654
695	Tongda	PIFA	IPEX	TX1: 0.78 TX2: 0.46	TX1: T-543-9001110-1 TX2: T-543-9001110-2
696	Honglin	PIFA	IPEX	TX1: 1.23 TX2: 2.06	TX1: 260-23657 TX2: 260-23658

697	Tongda	PIFA	IPEX	TX1: 0.27 TX2: 0.35	TX1: T-543-9001112-1 TX2: T-543-9001112-2
698	Honglin	PIFA	IPEX	TX1: 1.01 TX2: -2.59	TX1: 260-23655 TX2: 260-23656
699	TONGDA	PIFA	IPEX	TX1: -0.32 TX2: 0.53	TX1: T-543-9001111-1 TX2: T-543-9001111-2
700	Jieng-Ta	PIFA	IPEX	TX1: -1.27 TX2: -1.02	TX1: DQ600033801 TX2: DQ600033801
701	ACON	PIFA	IPEX	TX1: -0.42 TX2: 1.14	TX1: 0.25.900HV.0011 TX2: 0.25.900HW.0011
702	WNC	PIFA	IPEX	TX1: 0.91 TX2: 0.44	TX1: 025.900HV.0001 TX2: 025.900HW.0001
703	ACON	PIFA	IPEX	TX1: -0.42 TX2: 1.14	TX1: 0.25.900HV.0011 TX2: 0.25.900HW.0011
704	WNC	PIFA	IPEX	TX1: 0.91 TX2: 0.44	TX1: 025.900HV.0001 TX2: 025.900HW.0001
705	Tongda	PIFA	IPEX	TX1: 1.20 TX2: 0.80	TX1: T-543-9001107-1 TX2: T-543-9001107-2
706	Tongda	PIFA	IPEX	TX1: -0.22 TX2: -0.92	TX1: T-543-9001108-1 TX2: T-543-9001108-2
707	Tongda	PIFA	IPEX	TX1: 0.04 TX2: 0.86	TX1: T-543-9001109-1 TX2: T-543-9001109-2
708	Jiengtai	PIFA	IPEX	TX1: 1.99 TX2: 0.05	TX1: 7KYQUTAN000344 TX2: 7KYQUTAN000345
709	Jiengtai	PIFA	IPEX	TX1: -0.49 TX2: 2.54	TX1: 7KYQUTAN000346 TX2: 7KYQUTAN000347
710	Jiengtai	PIFA	IPEX	TX1: 0.15 TX2: 0.11	TX1: 7KYQUTAN000348 TX2: 7KYQUTAN000349
711	Inno Wave	PIFA	IPEX	TX1: 2.51 TX2: 1.53	TX1: 025.900JE.0001 TX2: 025.900JH.0001
712	SPEED	PIFA	IPEX	TX1: -4.24 TX2: -1.65	TX1: 025.900JF.0001 TX2: 025.900JG.0001
713	WGT	PIFA	IPEX	TX1: 0.73 TX2: 0.72	TX1: HHA14WIPB01+A TX2: HHA14WIPB02+A
714	WGT	PIFA	IPEX	TX1: 1.54 TX2: 1.34	TX1: HHA15WIPB02+C TX2: HHA15WIPB01+C

715	WGT	PIFA	IPEX	TX1: 1.45 TX2: 1.36	TX1: HHA15WIPB03+B TX2: HHA15WIPB04+B
716	WGT	PIFA	IPEX	TX1: -1.49 TX2: 1.91	TX1: HHB11WIPB01+B TX2: HHB11WIPB02+B
717	WGT	PIFA	IPEX	TX1: 1.43	TX1: HHB14WIPB03+A
718	WGT	PIFA	IPEX	TX1: 1.56 TX2: 2.23	TX1: HHD18WIPB01+C TX2: HHD18WIPB02+C
719	WGT	PIFA	IPEX	TX1: 2.25 TX2: 2.54	TX1: HHD18WIPB01+C TX2: HHDH8WIPB02+A
720	MAGIC	PIFA	IPEX	TX1: 1.17	TX1: AWPDP23F-074A4031
721	MAGIC	PIFA	IPEX	TX1: 0.61	TX1: AWPDP23F-074B4031
722	WGT	PIFA	IPEX	TX1: 0.65 TX2: 1.17	TX1: HHDH9WIPB01+B TX2: HHDH9WIPB02+B
723	MAGIC	PIFA	IPEX	TX1: -4.82	TX1: AWPDP24F-074B4031
724	MAGIC	PIFA	IPEX	TX1: 0.04	TX1: AWPDP25F-074B4031
725	WGT	PIFA	IPEX	TX1: -0.07	TX1: HHDS4WIPB01+A
726	WGT	PIFA	IPEX	TX1: 3.02 TX2: 0.5	TX1: HHE10WIPB01+C TX2: HHDB1WIPB01+E
727	WGT	PIFA	IPEX	TX1: 2.36 TX2: 2.10	TX1: HHT13WIPB01+A TX2: HHT13WIPB02+A
728	WGT	PIFA	IPEX	TX1: 1.00 TX2: 0.32	TX1: HHE14WIPB03+A TX2: HHE14WIPB02+B
729	WGT	PIFA	IPEX	TX1: 1.38 TX2: 0.93	TX1: HHW08WIPB01+B TX2: HHW08WIPB02+B
730	WGT	PIFA	IPEX	TX1: 2.65 TX2: 1.78	TX1: HHNH5WIPB01+A TX2: HHNH5WIPB02+A
731	WGT	PIFA	IPEX	TX1: 2.6 TX2: 1.58	TX1: HHNI3WIPB01+A TX2: HHNI3WIPB02+A
732	WGT	PIFA	IPEX	TX1: 1.62 TX2: -0.33	TX1: HHU01WIPB01+A TX2: HHU01WIPB02+A
733	WGT	PIFA	IPEX	TX1: 1.62 TX2: 0.69	TX1: HHU01WIPB01+A TX2: HHU01WIPB02+A
734	WGT	PIFA	IPEX	TX1: 0.26 TX2: 2.28	TX1: HHT03WIPB01+A TX2: HHT03WIPB02+A
735	WGT	PIFA	IPEX	TX1: 0.26 TX2: 2.28	TX1: HHT03WIPB01+A TX2: HHT03WIPB02+A

736	WGT	PIFA	IPEX	TX1: 2.49 TX2: 2.44	TX1: HHW03WIPB01+B TX2: HHW03WIPB02+B
737	WGT	PIFA	IPEX	TX1: 2.49 TX2: 2.44	TX1: HHW03WIPB01+B TX2: HHW03WIPB02+B
738	WGT	PIFA	IPEX	TX1: 2.67 TX2: 0.60	TX1: HHL06WIPB01+A TX2: HHL06WIPB02+A
739	WGT	PIFA	IPEX	TX1: 2.39 TX2: 2.78	TX1: HHWA0WIPB01+D TX2: HHWA0WIPB02+D
740	WGT	PIFA	IPEX	TX1: 2.35	TX1: HHXS3WIPB01+C
741	WGT	PIFA	IPEX	TX1: 3.11	TX1: HHN08WIPB01+C
742	MAGIC	PIFA	IPEX	TX1: 1.82	TX1: AWP22F-074I4031
743	MAGIC	PIFA	IPEX	TX1: 3.13	TX1: AWP22F-074J4031
744	MAGIC	PIFA	IPEX	TX1: 3.13	TX1: AWP22F-074J4031
745	MAGIC	PIFA	IPEX	TX1: 0.70	TX1: AWP18F-074A4031
746	MAGIC	PIFA	IPEX	TX1: 1.06	TX1: AWP18F-074F4031
747	MAGIC	PIFA	IPEX	TX1: 1.29	TX1: AWP18F-074G4031
748	WNC	PIFA	IPEX	TX1: 1.37 TX2: 1.79	TX1: DQ6415G0300 TX2: DQ6415G0300
749	JEM	PIFA	IPEX	TX1: 3.29 TX2: 2.96	TX1: IA-130235 1510-0124-0007) TX2: IA-130236 (1510-0124-0008)
750	WGT	PIFA	IPEX	TX1: 1.48 TX2: -0.95	TX1: SKN65WIPB01+A TX2: SKN65WIPB02+A
751	WGT	PIFA	IPEX	TX1: -1.14 TX2: 0.60	TX1: SK95LWIPB02+B TX2: SK95LWIPB02+B
752	WNC	Dipole	IPEX	TX1: -0.45 TX2: 1.28	TX1: 497317-003 TX2: 497317-003
753	Inno Wave	PIFA	IPEX	TX1: 2.63 TX2: 1.96	TX1: 025.900JI.0001 TX2: 025.900KH.0001
754	Inno Wave	PIFA	IPEX	TX1: 2.71 TX2: 1.84	TX1: 025.900KF.0001 TX2: 025.900JH.0001
755	Inno Wave	PIFA	IPEX	TX1: 2.78 TX2: 1.18	TX1: 025.900KD.0001 TX2: 025.900GQ.0001
756	ACON	PIFA	IPEX	TX1: 0.43 TX2: 1.38	TX1: AAM6Y-100011 TX2: AAM6Y-100012
757	SPEED	PIFA	IPEX	TX1: 2.57 TX2: 2.87	TX1: 025.900HS.0001 TX2: 025.900HT.0001

758	SPEED	PIFA	IPEX	TX1: 0.03 TX2: 0.34	TX1: 025.900JK.0001 TX2: 025.900KG.0001
759	SPEED	PIFA	IPEX	TX1: -0.92 TX2: -2.57	TX1: 025.900KE.0001 TX2: 025.900JG.0001
760	SPEED	PIFA	IPEX	TX1: 0.15 TX2: -2.63	TX1: 025.900KC.0001 TX2: 025.900GO.0001
761	Foxconn	PIFA	IPEX	TX1: 1.27 TX2: 0.66	TX1: 350502200-600-G TX2: 350502100-600-G
762	Jiengtai	PIFA	IPEX	TX1: 2.33 TX2: 2.89	TX1: DQ67KYQUT36 TX2: DQ67KYQUT37
763	Jiengtai	PIFA	IPEX	TX1: -0.49 TX2: 2.54	TX1: DQ67KYQUT38 TX2: DQ67KYQUT39
764	ACON	PIFA	IPEX	TX1: 1.24 TX2: 0.65	ADM6Y-200006
765	ACON	PIFA	IPEX	TX1: -1.25 TX2: -0.54	TX1: APP6Y-700324 TX2: APP6Y-700323
766	ACON	PIFA	IPEX	TX1: -1.67 TX2: -1.29	TX1: APP6Y-700324 TX2: APP6Y-700323
767	HL	PIFA	IPEX	TX1: -0.66 TX2: -0.89	TX1: 6036B0150601 TX2: 6036B0150501
768	HL	PIFA	IPEX	TX1: -1.0 TX2: -0.97	TX1: 6036B0150601 TX2: 6036B0150501
769	Yageo	PIFA	IPEX	TX1: 0.51 TX2: 0.21	TX1: 6036B0152501 TX2: 6036B0152401
770	ACON	PIFA	IPEX	TX1: 1.62 TX2: 1.06	TX1: APP6Y-700303 TX2: APP6Y-700304
771	WNC	PIFA	IPEX	TX1: 0.76 TX2: 1.41	TX1: 6036B0149203 TX2: 6036B0149303
772	ACON	PIFA	IPEX	TX1: -1.04 TX2: -1.24	TX1: APP6Y-700307 TX2: APP6Y-700308
773	WNC	PIFA	IPEX	TX1: -1.67 TX2: -1.39	TX1: 6036B0148603 TX2: 6036B0148703
774	ACON	PIFA	IPEX	TX1: -1.86 TX2: -1.56	TX1: APP6Y-700311 TX2: APP6Y-700312
775	Yageo	PIFA	IPEX	TX1: -0.92 TX2: -1.36	TX1: 6036B0148502 TX2: 6036B0149602

776	Inno Wave	PIFA	IPEX	TX1: 2.63 TX2: 1.96	TX1: 025.900JI.0001 TX2: 025.900KH.0001
777	Inno Wave	PIFA	IPEX	TX1: 2.71 TX2: 1.84	TX1: 025.900KF.0001 TX2: 025.900JH.0001
778	Inno Wave	PIFA	IPEX	TX1: 2.78 TX2: 1.18	TX1: 025.900KD.0001 TX2: 025.900GQ.0001
779	SPEED	PIFA	IPEX	TX1: 0.03 TX2: -0.34	TX1: 025.900JK.0001 TX2: 025.900KG.0001
780	SPEED	PIFA	IPEX	TX1: -0.92 TX2: -2.57	TX1: 025.900KE.0001 TX2: 025.900JG.0001
781	SPEED	PIFA	IPEX	TX1: 0.15 TX2: -2.63	TX1: 025.900KC.0001 TX2: 025.900GO.0001
782	Inno Wave	PIFA	IPEX	TX1: 2.58 TX2: 1.29	TX1: 025.900JI.0001 TX2: 025.900JJ.0001
783	Inno Wave	PIFA	IPEX	TX1: 2.50 TX2: 0.59	TX1: 025.900GP.0001 TX2: 025.900GQ.0001
784	Inno Wave	PIFA	IPEX	TX1: 2.51 TX2: 1.53	TX1: 025.900JE.0001 TX2: 025.900JH.0001
785	SPEED	PIFA	IPEX	TX1: -0.44 TX2: -0.42	TX1: 025.900JK.0001 TX2: 025.900JL.0001
786	SPEED	PIFA	IPEX	TX1: -2.87 TX2: -1.29	TX1: 025.900GN.0001 TX2: 025.900GO.0001
787	SPEED	PIFA	IPEX	TX1: -4.24 TX2: -1.65	TX1: 025.900JF.0001 TX2: 025.900JG.0001
788	ACON	PIFA	IPEX	TX1: 1.39 TX2: 2.39	ANP6Y-100109
789	HIGH-TEK	PIFA	IPEX	TX1: 1.67 TX2: 2.68	0ACPG016001N
790	LUXSHARE	PIFA	IPEX	-2.60	14008-00990200
791	WGT	PIFA	IPEX	TX1: -0.86 TX2: -0.02	TX1: SK97LWIPB01+D TX2: SKP87WIPB02+B
792	INPAQ	PIFA	IPEX	TX1: 0.40 TX2: -0.8	TX1: WA-P-LBLB-04-034 TX2: WA-P-LBLB-04-034
793	ACON	PIFA	IPEX	TX1: 1.05 TX2: 0.46	ANP6Y-200026

794	ACON	PIFA	IPEX	TX1: 1.80 TX2: 1.98	TX1: APM6Y-700018 TX2: APM6Y-700019
795	ACON	PIFA	IPEX	TX1: 1.87 TX2: 1.94	TX1: ADM6Y-100002 TX2: ADM6Y-100003
796	ACON	PIFA	IPEX	TX1: 0.43 TX2: 1.43	TX1: APM6Y-700016 TX2: APM6Y-700017
797	SPEED	PIFA	IPEX	TX1: -0.64 TX2: 0.30	TX1: F.0G.FS-6015-001 TX2: F.0G.FS-6015-002
798	SPEED	PIFA	IPEX	TX1: -2.68 TX2: 0.03	TX1: F.0G.FS-6016-001 TX2: F.0G.FS-6016-002
799	SPEED	PIFA	IPEX	TX1: -0.94 TX2: 0.46	TX1: F.0G.FS-6016-001 TX2: F.0G.FS-6016-002
800	TongDa	PIFA	IPEX	1.25	T-543-3010590-1
801	WNC	PIFA	IPEX	TX1: -0.92 TX2: -1.65	504993-001
802	WNC	PIFA	IPEX	-0.92	600050-001
803	WNC	PIFA	IPEX	TX1: -0.81 TX2: -1.55	81.EEW15.018
804	WNC	PIFA	IPEX	-0.81	812046-001
805	ACON	PIFA	IPEX	TX1: -0.30 TX2: -2.51	TX1: ANP6Y-100113 TX2: ANP6Y-100114
806	Jieng-Tai	PIFA	IPEX	2.33	7KYQUTAN000365
807	Jieng-Tai	PIFA	IPEX	-0.49	7KYQUTAN000366
808	Jieng-Tai	PIFA	IPEX	0.15	7KYQUTAN000367
809	Tongda	PIFA	IPEX	0.80	T-543-9001107-3
810	Tongda	PIFA	IPEX	-0.92	T-543-9001108-3
811	Tongda	PIFA	IPEX	0.86	T-543-9001109-3

812	HIGH-TEK	PIFA	IPEX	TX1: -0.73 TX2: 1.09	TX1: 0ACCN016015N TX2: 0ACCN016016N
813	HIGH-TEK	PIFA	IPEX	TX1: -0.17 TX2: 0.50	TX1: 0ACCN016015N TX2: 0ACCN016016N
814	WNC	PIFA	IPEX	TX1: -0.97 TX2: 0.76	TX1: 57EAA415.050 TX2: 57EAA415.051
815	WNC	PIFA	IPEX	TX1: -0.50 TX2: -1.01	TX1: 57EAA415.050 TX2: 57EAA415.051
816	JEM	PIFA	IPEX	TX1: 2.80 TX2: 1.68	TX1: 6036B0150701 TX2: 6036B0150701
817	ACON	PIFA	IPEX	TX1: -1.81 TX2: 2.50	TX1: ADM6Y-200009 TX2: ADM6Y-200009
818	ACON	PIFA	IPEX	TX1: 1.16 TX2: 0.20	TX1: APP6Y-700246 TX2: APP6Y-700246
819	INPAQ	PIFA	IPEX	TX1: 0.87	TX1: DQ6LB023500
820	INPAQ	PIFA	IPEX	TX1: 1.73	TX1: DQ6LB023501
821	INPAQ	PIFA	IPEX	TX1: -0.38	TX1: DQ6PLB02300
822	INPAQ	PIFA	IPEX	TX1: -1.19	TX1: DQ6PLB02301
823	INPAQ	PIFA	IPEX	TX1: 1.47	TX1: DQ60PLB0232
824	YAGEO	PIFA	IPEX	TX1: -0.84	TX1: DQ60PLB0233
825	WNC	PIFA	IPEX	TX1: 1.33	TX1: DQ6415G4100
826	WNC	PIFA	IPEX	TX1: 1.71	TX1: DQ6415G4400
827	WNC	PIFA	IPEX	TX1: 0.84	TX1: DQ6415G4700
828	WNC	PIFA	IPEX	TX1: 0.71	TX1: DQ6415G4900
829	YEAGO	PIFA	IPEX	TX1: -0.73	TX1: DQ611051W00
830	YEAGO	PIFA	IPEX	TX1: 1.24	TX1: DQ611081W00
831	INPAQ	PIFA	IPEX	TX1: 0.27	TX1: DQ600236200
832	YEAGO	PIFA	IPEX	TX1: -1.04	TX1: DQ601077100
833	YEAGO	PIFA	IPEX	TX1: -0.31	TX1: DQ601081100
834	YEAGO	PIFA	IPEX	TX1: 2.37	TX1: DQ601085100
835	YEAGO	PIFA	IPEX	TX1: 2.12	TX1: DQ601093100
836	YEAGO	PIFA	IPEX	TX1: 1.99	TX1: DQ601111100
837	Airgain	PIFA	IPEX	TX1: 2.4	TX1: M2410CMRSU
838	Airgain	PIFA	IPEX	TX1: 1.5	TX1: M2410DCR
839	INNOWAVE	PIFA	IPEX	Main: 2.41	Main: 610-INNEP0005-A
840	INNOWAVE	PIFA	IPEX	Main: 2.55 Aux.: 2.89	Main: 610-INNEP0001-A Aux.: 610-INNEP0002-A

841	INNOWAVE	PIFA	IPEX	Main: 2.17 Aux.: 2.80	Main: 610-INNEP0003-A Aux.: 610-INNEP0004-A
842	WGT	PIFA	IPEX	0.70	HHDS6WIPB01+A
843	WGT	PIFA	IPEX	-0.46	HH02UWIPB01+B
844	WGT	PIFA	IPEX	Main: -2.02 Aux.: -2.29	Main: HHW0LWIPB01+D Aux.: HHW0LWIPB02+A
845	WGT	PIFA	IPEX	1.59	HH02AWIPB01+A
846	WGT	PIFA	IPEX	Main: 2.31 Aux.: 2.07	Main: HHW08WIPB01+B Aux.: HHS14WIPB02+B
847	WGT	PIFA	IPEX	Main: 1.71 Aux.: 0.97	Main: HHW01WIPB01+B Aux.: HHW01WIPB02+B
848	WGT	PIFA	IPEX	Main: 1.62 Aux.: 0.69	Main: HHU01WIPB01+A Aux.: HHU01WIPB02+A
849	WGT	PIFA	IPEX	Main: 0.52 Aux.: 0.48	Main: HHX50WIPB01+B Aux.: HHX50WIPB02+B
850	WGT	PIFA	IPEX	Main: 0.91 Aux.: -0.12	Main: HHX90WIPB01+A Aux.: HHX90WIPB02+A
851	WGT	PIFA	IPEX	-1.75	HHE03WIPB01+D
852	WGT	PIFA	IPEX	Main: 1.95 Aux.: 1.20	Main: HHCT3WIPB01+A Aux.: HHCT3WIPB02+A
853	WGT	PIFA	IPEX	0.35	HH5V5WIPB01+A
854	WGT	Dipole	IPEX	2.25	HHXPCAPDI01+A
855	WGT	Dipole	IPEX	2.11	Main: HHD3TEST01+A Aux.: HHXPCAPDI02+A
856	WGT	PIFA	IPEX	0.93	HHE23WIPB01+D
857	ACON	PIFA	IPEX	Main: 0.32 Aux.: 2.82	Main: ANP6Y-100121 Aux.: ANP6Y-100121
858	HIGH-TEK	PIFA	IPEX	Main: 1.32 Aux.: 1.70	Main: 0ACPG016010N Aux.: 0ACPG016010N
859	SPEED	PIFA	IPEX	Main: 0.15 Aux.: -2.63	Main: 025.900KC.0001 Aux.: 025.900GO.0001
860	SPEED	PIFA	IPEX	Main: 0.34 Aux.: 0.03	Main: 025.900JK.0001 Aux.: 025.900KG.0001
861	ACON	PIFA	IPEX	Main: 1.16 Aux.: 0.20	Main: 6036B0150701 Aux.: 6036B0150701
862	Foxconn	PIFA	IPEX	Main: -0.75 Aux.: 0.33	Main: 350504E00-600-G Aux.: 350504F00-600-G

863	Foxconn	PIFA	IPEX	Main: -1.34 Aux.: 0.56	Main: 350504C00-600-G Aux.: 350504D00-600-G
864	JEM	PIFA	IPEX	Main: 1.45 Aux.: 1.51	Main: 6036B0150701 Aux.: 6036B0150701
865	ACON	PIFA	IPEX	Main: 1.87 Aux.: 1.48	Main: 6036B0148401 Aux.: 6036B0148401
866	JEM	PIFA	IPEX	Main: 1.79 Aux.: 2.47	Main: 6036B0148401 Aux.: 6036B0148401
867	ACON	PIFA	IPEX	Main: 0.70 Aux.: 0.60	Main: WA-M-LB-10-023 Aux.: WA-M-LB-10-023
868	ACON	PIFA	IPEX	Main: -1.18 Aux.: -0.47	Main: AAM6Y-200013 Aux.: AAM6Y-200013
869	WNC	PIFA	IPEX	0.71	DQ6415G4900
870	WNC	PIFA	IPEX	1.33	DQ6415G4100
871	WNC	PIFA	IPEX	0.84	DQ6415G4700
872	WNC	PIFA	IPEX	1.71	DQ6415G4400
873	Foxconn	PIFA	IPEX	Main: -0.95 Aux.: 0.34	Main: 350504900-600 - G Aux.: 350504G00-600-G
874	Foxconn	PIFA	IPEX	Main: -0.72 Aux.: -2.92	Main: 350504A00-600-G Aux.: 350504B00-600-G
875	ACON	PIFA	IPEX	Main: 1.69 Aux.: 1.61	ANP6Y-100136 ANP6Y-100137
876	YAGEO	PIFA	IPEX	0.28	ANTA0AA11131WLAN1
877	LUXSHARE	PIFA	IPEX	-0.7	LA05RF895-1H
878	LUXSHARE	PIFA	IPEX	-0.7	LA05RF919-1H
879	YAGEO	PIFA	IPEX	-0.68	ANTA0AA11571WLAN1
880	ACON	PIFA	IPEX	Main:-1.18 Aux: -1.26	ANP6P-100005 ANP6P-100006
881	LUXSHARE	PIFA	IPEX	Main: -1.86 Aux.: -0.54	LB305LC305 LB306LC306
882	ACON	PIFA	IPEX	Main: -4.27 Aux.: -3.06	025.9010D.0001 025.9010E.0001
883	High-Tek	PIFA	IPEX	Main: 2.71 Aux.: -1.63	025.90123.0001 025.90124.0001
884	High-Tek	PIFA	IPEX	Main: 1.22 Aux.: 0.13	0ACPG016016N 0ACPG016017N
885	WNC	PIFA	IPEX	1.85	DQ6415G6600

886	WNC	PIFA	IPEX	1.38	DQ6415G6400
887	WNC	PIFA	IPEX	2.33	DQ6415G6100
888	INPAQ	PIFA	IPEX	0.63	WA-P-LB-01-114
889	INPAQ	PIFA	IPEX	-0.3	WA-P-LB-01-174
890	INPAQ	PIFA	IPEX	0.44	WA-P-LB-02-222
891	INPAQ	PIFA	IPEX	-0.9	WA-P-LB-02-389
892	ACON	Dipole	IPEX	0.41 0.83	025.90119.0001 025.9011A.0001
893	ACON	PIFA	IPEX	TX1: 1.94 TX2: -0.22	ANP6Y-100140 ANP6Y-100141
894	SA	PIFA	IPEX	TX1: 0.64 TX2: 1.54	SE-ECS50-001 SE-ECS50-002
895	ACON	PIFA	IPEX	TX1: -0.48 TX2: -0.37	025.9013Y.0011 025.9013Z.0011
896	WNC	PIFA	IPEX	TX1: -0.77 TX2: 0.35	025.9013Y.0001 025.9013Z.0001
897	HONGBO	PIFA	IPEX	TX1: -0.66 TX2: -1.40	DQ602371500 DQ602371500
898	INPAQ	PIFA	IPEX	TX1: -1.57 TX2: -0.90	DQ6LB020204 DQ6LB020204
899	WNC	PIFA	IPEX	TX1: 0.89 TX2: 0.44	DQ6415G8200 DQ6415G8200
900	HONGBO	PIFA	IPEX	-0.66	DQ602371400
901	INPAQ	PIFA	IPEX	-1.74	DQ6LB024100
902	WNC	PIFA	IPEX	1.30	DQ6415G8500
903	High-Tek	PIFA	IPEX	TX1: -0.23 TX2: 0.90	0ACCN016037N 0ACCN016038N
904	Hong-Bo	PIFA	IPEX	TX1: -1.55 TX2: 0.70	ANM6Y-100000 ANM6Y-100001
905	INPAQ	PIFA	IPEX	0.62	DQ6LB024204
906	WNC	PIFA	IPEX	1.33	DQ6415G9700
907	HONGBO	PIFA	IPEX	TX1: -2.04 TX2: 0.58	DQ602368900 DQ602368900
908	INPAQ	PIFA	IPEX	TX1: -1.99 TX2: -1.08	DQ6LB020301 DQ6LB020301
909	HONGBO	PIFA	IPEX	1.50	DQ602368800
910	INPAQ	PIFA	IPEX	0.69	DQ6LB024201

911	WNC	PIFA	IPEX	1.86	DQ6415G9800
912	INPAQ	PIFA	IPEX	TX1: 0.03 TX2: -0.50	WA-P-LB-02-289 WA-P-LB-01-138
913	LUXSHAREICT	PIFA	IPEX	TX1: -2.10 TX2: -1.90	LA05RF838-1H LA05RF836-1H
914	INPAQ	PIFA	IPEX	0.38	DQ6LB024203
915	Hong-Bo	PIFA	IPEX	2.15	DQ602369200
916	INPAQ	PIFA	IPEX	0.28	DQ6LB024205
917	WNC	PIFA	IPEX	0.37	DQ6415G9500
918	SPEED	PIFA	IPEX	TX1: 0.95 TX2: 0.03	025.90133.0001 025.90134.0001
919	Inno Wave	PIFA	IPEX	TX1: 2.66 TX2: 0.71	025.90135.0001 025.90136.0001
920	SPEED	PIFA	IPEX	TX1: 2.35 TX2: -0.45	025.90146.0001 025.900GO.0001
921	Inno Wave	PIFA	IPEX	TX1: 1.16 TX2: 1.29	025.90144.0001 025.90145.0001
922	ACON	PIFA	IPEX	TX1: 0.50 TX2: 0.09	APP6Y-700127 APP6Y-700132
923	ACON	PIFA	IPEX	TX1: 0.09 TX2: -1.32	APP6Y-700139 APP6Y-700140
924	Yageo	PIFA	IPEX	TX1: -0.23 TX2: -0.59	ANTA0ZP09131WLAN3 ANTA0ZP09131WLAN4
925	ACON	PIFA	IPEX	TX1: -0.30 TX2: -2.51	ANP6Y-100113 ANP6Y-100114
926	ACON	PIFA	IPEX	TX1: 1.69 TX2: 1.61	ANP6Y-100136 ANP6Y-100137
927	HIGH-TEK	PIFA	IPEX	TX1: 1.22 TX2: 0.13	0ACPG016016N 0ACPG016017N
928	ACON	PIFA	IPEX	TX1: 1.14 TX2: 0.44	6036B0190601 6036B0190501
929	SA	PIFA	IPEX	TX1: -0.08 TX2: -1.18	SE-ECM40-001 SE-ECM40-002
930	HIGH-TEK	PIFA	IPEX	TX1: -0.92 TX2: -1.89	0ACCN017005N 0ACCN017006N
931	HONGBO	PIFA	IPEX	TX1: 2.20 TX2: 0.19	6036B0193501 6036B0193601

932	HONGBO	PIFA	IPEX	2.05	260-23718
933	Tongda	PIFA	IPEX	1.45	T-543-9001133-3
934	HONGBO	PIFA	IPEX	2.05	260-23668
935	Tongda	PIFA	IPEX	1.45	DQ690011301
936	RFlink	Dipole	IPEX	TX1: 2.98 TX2: 2.88	RF11C01148S RF11C01149S
937	RFlink	Dipole	IPEX	TX1: 2.96 TX2: 2.77	RF11C01190S RF11C01191S
938	WNC	PIFA	IPEX	TX1: 1.52	DQ6415GCK00
939	Yageo	PIFA	IPEX	TX1: -0.95	DQ612141W00
940	WNC	PIFA	IPEX	TX1: 0.37 TX2: 1.13	81EAAL15.GHN 81EAAL15.GHN
941	Yageo	PIFA	IPEX	TX1: -0.53 TX2: 1.57	ANTA0AQ11962WLAN1 ANTA0AQ11962WLAN1
942	INPAQ	PIFA	IPEX	TX1: -0.03	WA-P-LB-02-449
943	YAGEO	PIFA	IPEX	TX1: -3.42	ANTA0AA11861WLAN1
944	Hua cheng	PIFA	IPEX	TX1 :-1.21 TX2:-0.98	0ACAU017005N 0ACAU017006N
945	Acon	PIFA	IPEX	TX1: 1.82 TX2: -0.12	ANP6Y-100208 ANP6Y-100209
946	YAGEO	PIFA	IPEX	TX1: -1.67 TX2:-4.31	ANTA0AA12271WLAN1 ANTA0AA12271WLAN2
947	Luxshare ICT	PIFA	IPEX	TX1 :0.8 TX2: 0.1	LA9RF066-CS-H LA9RF067-CS-H
948	YAGEO	PIFA	IPEX	1.40	ANTA0HQ12571WLAN1
949	WNC	PIFA	IPEX	2.45	81EAA415.GE8
950	HTK	PIFA	IPEX	1.12	0ACQD018004N
951	HCT	PIFA	IPEX	-0.41	0ACAU017007N
952	LUXSHARE ICT	PIFA	IPEX	-2.1	LA9RF076-CS-H
953	JEM	PIFA	IPEX	TX1:3.15 TX2:2.23	IAHA201712020 IAHA201712021
954	WNC	Dipole	I-PEX	1.68	DQ6I15G0500
955	YAGEO	Dipole	I-PEX	TX1:0.15 TX2:0.15	DQ612391W03 DQ612391W03
956	HTK	PIFA	I-PEX	1.12	DQ60ACQD012
957	WNC	PIFA	I-PEX	2.45	DQ6415GE800

958	YAGEO	PIFA	I-PEX	1.40	DQ612571W00
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