

Rev: 01

Page: 1 of 44

Appendix B - DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: DAE4-1336_Aug18 CALIBRATION CERTIFICATE DAE4 - SD 000 D04 BM - SN: 1336 OA CAL-06 v29 Calibration procedure(s) Calibration procedure for the data acquisition electronics (DAE) August 06, 2018 Calibration date: This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%, Calibration Equipment used (M&TE critical for calibration) ID II Cal Date (Certificate No.) Primary Standards Scheduled Calibration SN: 0810278 Keithley Multimeter Type 2001 31-Aug-17 (No:21092) Aug-18 Secondary Standards Check Date (in house) Scheduled Check Auto DAE Calibration Unit SE UWS 053 AA 1001 04-Jan-18 (in house check) Calibrator Box V2.1 SE UMS 006 AA 1002 04-Jan-18 (in house check) In house check: Jan-19 Function Name Dominique Steffen Laboratory Technician Calibrated by: Approved by: Deputy Manager

Certificate No: DAE4-1336_Aug18

Page 1 of 5

This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com

Issued: August 6, 2018



Rev: 01

Page: 2 of 44

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-1336_Aug18

Page 2 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Rev: 01

Page: 3 of 44

DC Voltage Measurement

A/D - Converter Resolution nominal

full range = -100...+300 mV full range = -1......+3mV High Range: 1LSB = 6.1µV, Low Range: 1LSB = 61nV , DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.344 ± 0.02% (k=2)	403.624 ± 0.02% (k=2)	403.107 ± 0.02% (k=2)
Low Range	3.95102 ± 1.50% (k=2)	3.98703 ± 1.50% (k=2)	3.99683 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	287.0 ° ± 1 °
---	---------------

Certificate No: DAE4-1336_Aug18

Page 3 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 4 of 44

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200042.98	8.65	0.00
Channel X + Input	20006,34	1,11	0.01
Channel X - Input	-20005.65	-0.58	0.00
Channel Y + Input	200034.32	0.12	0.00
Channel Y + Input	20003.47	-1.57	-0.01
Channel Y - Input	-20006.39	-1.21	0.01
Channel Z + Input	200032.22	-2.05	-0.00
Channel Z + Input	20002.78	-2.14	-0.01
Channel Z - Input	-20007.34	-2.09	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.47	0,30	0.01
Channel X + Input	201.92	0.79	0.39
Channel X - Input	-198.26	0.59	-0.30
Channel Y + Input	2001.55	0.37	0.02
Channel Y + Input	200.97	-0.11	-0.05
Channel Y - Input	-199.34	-0.43	0.22
Channel Z + Input	2001,12	0.04	0.00
Channel Z + Input	200.15	-0.88	-0.44
Channel Z - Input	-200.14	-1.15	0.58

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	6.04	4.72
	- 200	-4.13	-4.79
Channel Y	200	-3.65	-3.78
	- 200	2.68	2.45
Channel Z	200	22.40	22.16
	- 200	-24.83	-25.10

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200		6.12	-1.64
Channel Y	200	9.19		6.46
Channel Z	200	8.44	6.31	~

Certificate No: DAE4-1336_Aug18

Page 4 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 5 of 44

4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	15666	16509
Channel Y	15907	15587
Channel Z	15855	15507

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

In	put	1	0	M	2	2
П						

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.87	-0.00	2.62	0.36
Channel Y	3.53	2.87	4.59	0.34
Channel Z	-0,18	-1.34	1.53	0.54

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Certificate No: DAE4-1336_Aug18

Page 5 of 5

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 6 of 44

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service sulsse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client

SGS-TW (Auden)

Certificate No: EX3-3938_Oct18

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3938

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5, QA

CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration date:

October 24, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)"C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	12 Un
Approved by:	Katja Pokovic	Technical Manager	seas.
			Issued: October 24, 2018

Certificate No: EX3-3938_Oct18

Page 1 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅累的計可,不可部份複製。

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 7 of 44

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters A, B, C, D

Polarization of op rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center).

i.e., 8 = 0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Péak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement
- Techniques", June 2013
 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices
- used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-3938_Oct18

Page 2 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 8 of 44

EX3DV4 - SN:3938

October 24, 2018

Probe EX3DV4

SN:3938

Manufactured: May 2, 2013 Calibrated: October 24, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

Certificate No: EX3-3938_Oct18

Page 3 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,什報告結果僅享到到於了樣品負責,同時什樣品僅享到90天。木報告未經太公司惠面許可,不可部份複數。

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_and_conditions.htm and for electronic format documents, or fall findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

www.tw.sas.com



Rev: 01

Page: 9 of 44

EX3DV4- SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A DCP (mV) ^B	0.51	0.57	0.33	± 10.1 %
DCP (mV) ⁸	103.2	100.3	107.8	2 740.70

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0,0	1.0	0.00	164.0	±3.5 %
		Y	0.0	0.0	1.0		174.2	
		Z	0.0	0.0	1.0		176.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V-1	Т6
X	59.09	436.9	35.15	26.09	1.205	5.10	1.012	0.575	1.009
Y	53,22	408.3	37.24	24.25	1.457	5.10	0.000	0.766	1.013
Z	46.65	332.5	32.92	15.26	1.153	4.98	2.000	0.225	1.006

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: EX3-3938_Oct18

Page 4 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

www.tw.sas.com

The uncertainties of Norm X.Y.Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the



Rev: 01

Page: 10 of 44

EX3DV4- SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	9.82	9.82	9.82	0,45	0.80	± 12.0 %
835	41.5	0.90	9.50	9.50	9.50	0.50	0.85	± 12.0 %
900	41.5	0.97	9.25	9.25	9.25	0.33	1.04	± 12.0 %
1450	40.5	1.20	8.53	8.53	8.53	0.30	0.86	± 12.0 %
1750	40.1	1.37	8.32	8.32	8.32	0.36	0.90	± 12.0 %
1900	40.0	1.40	7.95	7.95	7.95	0.29	0.90	± 12.0 %
2000	40.0	1.40	7,93	7.93	7.93	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.59	7.59	7.59	0.37	0,80	± 12.0 %
2450	39.2	1.80	7.17	7.17	7.17	0.38	0.83	± 12.0 %
2600	39.0	1.96	7.11	7.11	7.11	0.38	0.87	± 12.0 %
5250	35.9	4.71	5.00	5.00	5.00	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.65	4.65	4.65	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.76	4.76	4.76	0.40	1.80	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if fliquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

AlphaDepth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX3-3938_Oct18

Page 5 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 11 of 44

EX3DV4-SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.72	9.72	9.72	0.46	0.87	± 12.0 %
835	55.2	0.97	9,56	9.56	9.56	0.41	0.92	± 12.0 %
900	55.0	1.05	9.33	9.33	9.33	0.48	0.87	± 12.0 %
1450	54.0	1,30	7.98	7,98	7.98	0.32	0.90	± 12.0 %
1750	53.4	1.49	7.83	7.83	7.83	0.43	0.90	± 12.0 %
1900	53.3	1.52	7.52	7.52	7.52	0.33	0.96	± 12.0 %
2000	53.3	1.52	7.62	7.62	7.62	0.36	0.89	± 12.0 %
2300	52.9	1.81	7.33	7.33	7.33	0.42	0.87	± 12.0 %
2450	52.7	1.95	7.30	7.30	7.30	0.35	0.87	± 12.0 %
2600	52.5	2.16	7.15	7.15	7.15	0.33	0.95	± 12.0 %
5250	48.9	5.36	4.23	4.23	4.23	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.77	3.77	3.77	0.50	1.90	± 13.1 %
5800	48.2	6.00	4.00	4.00	4.00	0.50	1.90	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else if is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

Certificate No: EX3-3938_Oct18

Page 6 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format

documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

validity can be extended to ± 110 MHz.

At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for Indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip

diameter from the boundary.



Rev: 01

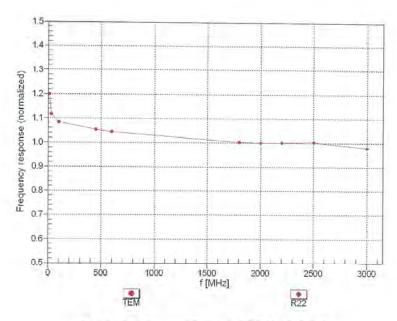
Page: 12 of 44

EX3DV4- SN:3938

October 24, 2018

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

Certificate No: EX3-3938_Oct18

Page 7 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,件報告結單僅對測試之樣品負責,同時什樣品僅保留何天。木報告未經木公司書面許可,不可部份複劃。

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format

Inis document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format occuments, subject to Terms and Conditions of Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

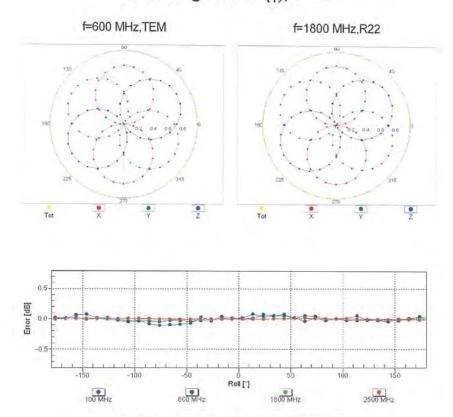


Rev: 01

Page: 13 of 44

EX3DV4- SN:3938 October 24, 2018

Receiving Pattern (ϕ), $9 = 0^{\circ}$



Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Certificate No: EX3-3938_Oct18

Page 8 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非早有說明,什報告結果僅與個別天。木報告未經木公司書面許可,不可無份複製。

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留的天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sg.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sg.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



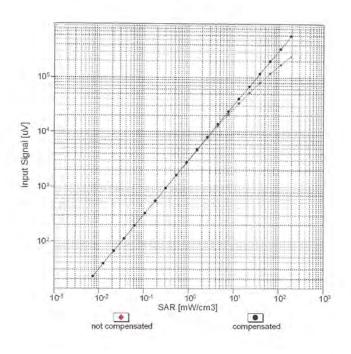
Rev: 01

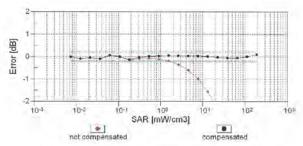
Page: 14 of 44

EX3DV4- SN:3938

October 24, 2018

Dynamic Range f(SARhead) (TEM cell , feval= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3938_Oct18

Page 9 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.

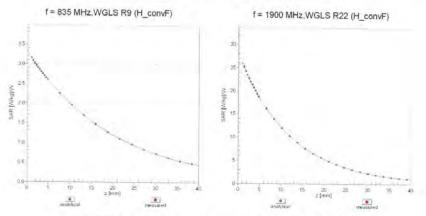


Rev: 01

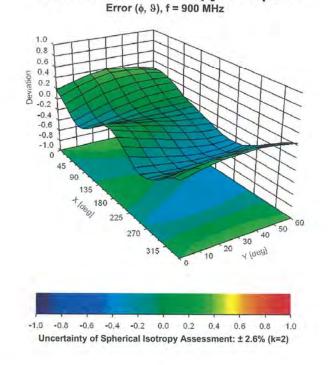
Page: 15 of 44

EX3DV4- SN:3938 October 24, 2018

Conversion Factor Assessment



Deviation from Isotropy in Liquid



Certificate No: EX3-3938_Oct18

Page 10 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sqs.com/terms-e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 16 of 44

EX3DV4-SN:3938

October 24, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-26.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1,4 mm

Certificate No: EX3-3938_Oct18

Page 11 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 17 of 44

EX3DV4-SN:3938 October 24, 2018

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	164.0	±3.5 %
		Y	0.00	0.00	1.00		174.2	
		Z	0.00	0.00	1.00		176.3	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	11.84	84.28	19.03	10.00	20.0	± 9.6 %
		Y	4.75	72.52	14.55		20.0	
		Z	2.70	65.66	10.62		20.0	-
10011- CAB	UMTS-FDD (WCDMA)	Х	1.25	71.04	17.46	0.00	150.0	±9.6 %
		Y	0.87	65.19	13.50		150.0	
		Z	1.10	69.84	16.56		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.29	65,77	16.62	0.41	150.0	± 9.6 %
		Y	1.13	63.57	14.74		150.0	
		Z	1.17	64.77	15.66		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.06	67.01	17.40	1.46	150,0	± 9.6 %
		Y	4.93	66.63	17.09		150.0	
		Z	4.79	66.72	16.84		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Х	100.00	118.51	30.68	9.39	50.0	± 9.6 %
		Y	100.00	117.47	30.14		50.0	
	And the second second second	Z	9.68	81.68	18.25		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	118.45	30.70	9.57	50.0	± 9.6 %
		Y	100.00	117.42	30.17		50.0	
	Contraction of the contract of	Z	8.28	79.56	17.55		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	×	100.00	116.27	28.62	6.56	60,0	± 9.6 %
		Υ	100.00	113.88	27.38		60.0	
		Z	17.36	88.43	18.89		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	14.85	105.13	41.16	12,57	50.0	± 9.6 %
		Y	6.69	80.08	30.32		50.0	
		Z	5.13	73.32	26.13		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	28.61	116.31	40.38	9.56	60.0	± 9.6 %
		Y	17.18	103.12	35.82		60.0	1
		Z	10.76	92.22	31.22		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	116.23	27.82	4.80	80.0	±9.6 %
		Y	100.00	112.20	25.80		80.0	
	The state of the s	Z	100.00	105.42	22.06		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	117.56	27.68	3,55	100.0	±9.6 %
		Y	100.00	111.19	24.62		100.0	-
		Z	100.00	105.06	21.28		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	14.44	99,44	33.73	7.80	80.0	± 9.6 %
		Y	10.38	91.48	30.62		80.0	
		Z	6,98	83,31	26.90	5.00	80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	115.12	27.62	5.30	70.0	± 9.6 %
		Υ	100.00	111.80	25.93		70.0	-
		Z	13.15	85.08	17.21	1.00	70.0	1000
10031- CAA	IEEE 802,15,1 Bluetooth (GFSK, DH3)	X	100.00	120.41	27.44	1.88	100.0	± 9.6 %
		Y	100.00	105.86	20.93		100.0	
		7	100.00	102.30	18.93	-	100.0	1

Certificate No: EX3-3938 Oct18

Page 12 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 18 of 44

EX3DV4- SN:3938

October 24, 2018

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	×	100.00	129,17	29.93	1.17	100.0	± 9.6 %
13.2		Y	100.00	101.34	18.13 18.92		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	128,01	35.11	5.30	100.0 70.0	± 9.6 %
		Y	30.26	106.06	28.70		70.0	
		Z	7.06	82.85	20.36		70.0	_
10034- CAA	IEEE 802,15.1 Bluetooth (PI/4-DQPSK, DH3)	X	31.82	111.52	29.61	1,88	100.0	±9.6 %
		Y	4.94	81.70	19.61		100.0	
		Z	3.36	77.14	17.43		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	8.76	93,74	24.54	1,17	100.0	± 9.6 %
_		Y	2,58	74.38	16.61		100.0	
10036-	IFFE ONG AT A DEC. AND AS A DEC.	Z	2.45	74.78	16.51	-	100.0	1.7
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	128.33	35.27	5.30	70.0	± 9.6 %
_		Y	49.56	114.02	30.85		70.0	
10037-	IEEE BOO 45 4 Blusteeth /8 DDOG DUG	Z	8.61	85.86	21.44		70.0	100
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	28.47	109,85	29.14	1.88	100.0	± 9.6 %
_		Z	4.63 3.10	80.88	19.28		100.0	
10038-	IEEE 802.15,1 Bluetooth (8-DPSK, DH5)	X	9.40	76.20	17.05		100.0	
CAA	TEEE 002.13, 1 Bibelooti (6-DPSN, DPS)	Y	2.66	95.18	25.08	1.17	100.0	±9.6 %
		Z	2.52	75.36		_	100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	2.91	78,68	16.85 19.30	0.00	100.0	±9.6 %
		Y	1.40	67,94	13.51		150.0	
	A Property of the second	Z	2.98	79.60	18.61		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	114.29	27.89	7.78	50.0	± 9,6 %
		Y	100.00	112.24	26.83		50.0	
10011	1221	Z	7,08	77.79	15.66		50.0	-
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	111.10	2.98	0.00	150.0	± 9.6 %
		Y	0.12	121.97	13.25		150.0	
10048-		Z	0.02	124.98	11.44		150.0	
CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	100.00	120.31	32.96	13.80	25.0	± 9.6 %
		Υ	26.80	98.60	27.12		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	6.10 100.00	73.04 118.79	16.68 31.19	10.79	25.0 40.0	±9.6 %
1 337		Y	42.73	105.35	27.59	-	40.0	
		Z	6.52	75.70	16.44		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	59.92	116.40	32.89	9.03	50.0	± 9.6 %
		Y	20.27	96.61	26,81		50.0	
1000		Z	8.73	81.48	20.30		50.0	-
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.49	90.34	29.75	6.55	100.0	± 9.6 %
		Υ	7.41	84.68	27.34		100.0	
10059-	IEEE DOO 444 MIEE C 1 CO. IEEE	Z	5.31	78.46	24.34	-	100.0	
CAB	IEEE 802.11b WiFi 2,4 GHz (DSSS, 2 Mbps)	X	1.45	68.16	17.83	0.61	110.0	±9.6 %
		Υ	1.24	65.28	15.64		110.0	
10060-	IEEE 802 11h WIEI 2.4 CH~ (DCCC 5.5	Z	1.24	66.08	16.24		110.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	136,52	35.66	1.30	110.0	± 9.6 %
		Y	100.00	127.82	31.55		110.0	
		Z	75.11	127.04	31.74		110.0	

Certificate No: EX3-3938_Oct18

Page 13 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司



Rev: 01

Page: 19 of 44

October 24, 2018

EX3DV4-SN:3938

10061- CAB	IEEE 802,11b WiFi 2.4 GHz (DSSS, 11 Mbps)	.X.	37.93	122.29	34.76	2.04	110.0	±9.6%
	1	Y	7.04	91.70	25.29		110.0	
		Z	3.71	82:53	21.92		110.0	
10062- CAC	IEEE 802,11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.83	66.93	16.78	0.49	100.0	± 9.6 %
-	(meps)	Y	4.68	66.44	16.40		100.0	
		Z	4.61	66.82	16.41		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.86	67.07	16.91	0.72	100.0	± 9.6 %
97.10	, map of	Y	4.71	66.58	16.52		100.0	
		Z	4.62	66.89	16.47		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.19	67.38	17.15	0.86	100.0	± 9.6 %
		Y	5.02	66.91	16.79		100.0	
		Z	4.90	67.10	16.66		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.07	67.37	17.30	1.21	100.0	± 9.6 %
	- Sapar,	Y	4.91	66.89	16.94		100.0	
		Z	4.77	66.99	16.73		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.11	67.44	17.51	1.46	100.0	± 9.6 %
		Y	4.95	66.98	17.15		100.0	
		Z	4.78	66.99	16.85		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.40	67.52	17.91	2.04	100.0	± 9.6 %
		Y	5.26	67.17	17.62		100.0	-
		Z	5.06	67.09	17.23		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.51	67.80	18.25	2.55	100.0	± 9.6 %
-	- Company	Y	5.36	67.40	17.94	- 1	100.0	
		Z	5.11	67.14	17.41		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.58	67.69	18.40	2.67	100.0	± 9.6 %
0.10		Y	5.44	67.37	18.13		100.0	
		Z	5.19	67.11	17.58		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.17	67.17	17.75	1.99	100.0	± 9.6 %
	(Coocie and Coocie and	Y	5.05	66.81	17.46		100.0	
		Z	4.88	66,78	17.09		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.21	67.68	18.06	2.30	100.0	±9.6 %
	(DOCO) C. D.III, 12 III P.	Y	5.08	67.27	17.74		100.0	
		Z	4.87	67.11	17.28		100.0	-
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.30	67.92	18.44	2.83	100.0	± 9.6 %
		Y	5.18	67.55	18.13	,	100.0	
		Z	4.94	67.26	17.56		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.29	67.90	18.65	3.30	100.0	± 9.6 %
		Y	5.19	67.54	18.34		100.0	
		Z	4.93	67.18	17.70		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.40	68.26	19.10	3.82	90.0	± 9.6 %
		Y	5.28	67.86	18.77		90.0	
		Z	4.98	67.33	17.99		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.38	67.97	19.17	4.15	90.0	± 9.6 %
		Y	5.29	67.64	18.88	-	90.0	
		Z	5.00	67.13	18.10	1	90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.41	68.03	19.26	4.30	90.0	± 9.6 9
	A Table of the Park of the Par	Y	5.32	67.72	18.98		90.0	

Certificate No: EX3-3938_Oct18

Page 14 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Rev: 01

Page: 20 of 44

EX3DV4-SN:3938

October 24, 2018

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1,20	70.94	15.87	0.00	150.0	±9.6 %
		Y	0.68	63.33	10.59		150.0	
		Z	0.97	69.12	14.01		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	1.35	61.30	6.54	4.77	80.0	±9.6 %
		Y	1.15	60.10	5.56		80.0	
72		Z	0.90	60.00	4.82		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	116,34	28.67	6.56	60.0	±9.6 %
		Y	100.00	113.98	27,45	0	60.0	
		Z	16.80	88.08	18.81		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.98	69.10	16.78	0.00	150.0	± 9.6 %
		Y	1.66	66.14	14.64		150.0	
	A CONTRACTOR OF THE PARTY OF TH	Z	1.92	69.38	16.52		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	×	1.94	69.09	16.77	0.00	150.0	± 9.6 %
		Y	1.62	66.08	14.59		150.0	
		Z	1.87	69.33	16.49		150.0	1
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	28.67	116.31	40.37	9,56	60.0	± 9.6 %
		Y	17.22	103.14	35.83		60.0	
		Z	10.80	92.24	31.22		60.0	
10100- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3,51	72.21	17.62	0.00	150.0	± 9.6 %
		Y	2.94	69.12	15.85		150.0	
		Z	3.29	71.84	17.33	- T - T	150.0	-
10101- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.42	68.37	16.44	0.00	150.0	± 9.6 %
		Y	3.15	66.88	15.45		150.0	
		Z	3.25	68.19	16.19		150.0	
10102- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.51	68.25	16.50	0.00	150.0	±9.6 %
		Y	3.25	66.87	15.57		150.0	
10100		2	3.35	68.16	16.28		150.0	
10103- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	×	9.10	80.51	22.32	3.98	65.0	±9.6 %
		Y	7.71	77.60	21.05		65.0	
		Z	6.72	75.86	19.85		65.0	
10104- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.36	77.67	22.08	3.98	65.0	±9.6 %
		Y	7.55	75.78	21.18		65.0	
1010-	LTE TOO ING TO	Z	6.54	73.78	19.84		65.0	
10105- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.22	77.35	22.27	3.98	65.0	±9.6 %
_		Y	7.00	74.28	20.84		65.0	
10108-	LTE FDD (OO FD) IA ARRIVED	Z	6.41	73.35	19.98		65.0	100
CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	3.07	71.32	17.44	0.00	150.0	±9.6 %
		Y	2.58	68.37	15.67		150.0	
10109-	LTE EDD /SO EDMA 4000 DE 45	2	2.85	71.00	17.15		150.0	1
CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.09	68.24	16.43	0,00	150.0	± 9.6 %
		Y	2.80	66.64	15.30		150.0	
10110-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz.	Z	2.92	68,15	16.17		150.0	7-2
CAG	QPSK)	X	2.51	70.39	17.16	0.00	150.0	± 9.6 %
			2.08	67.38	15.21		150.0	
10111-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.30	70.10	16.80	-	150.0	
CAG	16-QAM)	X	2.83	69.15	16.90	0.00	150.0	± 9.6 %
		Y	2.49	67.13	15.44		150.0	
		Z	2.71	69.56	16.76		150.0	

Certificate No: EX3-3938_Oct18

Page 15 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 21 of 44

EX3DV4-SN:3938

October 24, 2018

10112- CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.20	68,13	16,43	0.00	150.0	±9.6 %
	3,000	Y	2.93	66.65	15.39		150.0	
	The state of the s	Z	3.04	68.13	16.21		150.0	
10113- CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.98	69.16	16.96	0.00	150.0	±9.6 %
		Y	2.64	67.31	15.61		150.0	
		Z	2.87	69.66	16.87		150.0	
10114- CAC	(IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.21	67.32	16.54	0.00	150.0	±9.6 %
		Y	5.08	66.85	16.21		150.0	
7.3.4		Z	5.06	67.43	16.43		150.0	- 2
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5,56	67.60	16.68	0.00	150.0	± 9.6 %
		Y	5.42	67.13	16.37		150.0	
		Z	5.34	67.52	16.48		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.33	67.58	16.59	0.00	150.0	± 9.6 %
		Y	5.19	67.09	16.26		150.0	
		Z	5.15	67.61	16.44		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.21	67.33	16.56	0.00	150.0	± 9.6 %
		Y	5.06	66.76	16.19		150.0	
		Z	5.03	67.31	16.39		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.63	67.75	16.76	0.00	150.0	± 9.6 %
	V T	Y	5.50	67.34	16.48		150.0	
		Z	5.41	67.66	16.55		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.30	67.52	16.58	0.00	150.0	± 9.6 %
ONO	(Crisi)	Y	5.16	67.02	16.24		150.0	
_		z	5.13	67.55	16.43		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.56	68.24	16.42	0.00	150.0	± 9.6 %
Carti	The same of the sa	Y	3.29	66.88	15.49		150.0	
		Z	3.39	68,15	16.19		150.0	
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.68	68.26	16.55	0.00	150.0	± 9.6 %
-		Y	3.42	66.99	15.68		150.0	
		Z	3.52	68.25	16.36		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.31	70.61	17.10	0.00	150.0	± 9.6 %
0112	ar ony	Y	1.84	67.11	14.76		150.0	
		Z	2.12	70.48	16.65		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.77	70.28	16.99	0.00	150.0	± 9.6 %
21.10		Y	2.31	67.48	15.00		150.0	
		Z	2.68	70.99	16.78		150.0	1
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.51	67.86	15.37	0.00	150.0	± 9.6 %
		Y	2.14	65.60	13.59		150.0	
		Z	2.29	67.65	14.67		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.73	69.60	15.10	0.00	150.0	± 9.6 %
		Y	1.11	63.66	10.90		150.0	
Learne		Z	1.33	67.08	12.73		150.0	
10146- CAF	LTE-FDD (SC-FDMA, 100% RB, 1,4 MHz, 16-QAM)	X	4.24	75.96	17.12	0.00	150.0	±9.6 %
		Y	2.46	68:71	13,45		150.0	
		Z	2.36	68.35	12.25		150.0	Mary.
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	6.45	81.86	19.47	0.00	150.0	±9.69
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	3.10	71.79	14.97		150.0	

Certificate No: EX3-3938_Oct18

Page 16 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

f (886-2) 2298-0488

SGS Taiwan Ltd.



Rev: 01

Page: 22 of 44

EX3DV4-SN:3938

October 24, 2018

10149- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	×	3.10	68.31	16,47	0.00	150.0	± 9.6 %
		Y	2.81	66,69	15.35	,	150.0	
		2	2.93	68.23	16.22		150.0	
10150- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3,21	68.18	16.48	0.00	150.0	± 9.6 %
		Y	2.94	66.70	15.43		150.0	
		Z	3.05	68.20	16.26		150.0	
10151- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	·X	10.13	83.77	23,67	3.98	65.0	± 9.6 %
		Y	8.42	80.52	22.26		65.0	
	A THE RESERVE OF THE PARTY OF T	Z	6.89	77.61	20.59		65.0	
10152- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	8.04	78.08	22.05	3.98	65.0	± 9.6 %
		Y	7.13	75.91	20.96		65.0	
1.	the second second second	Z	6.04	73.58	19.44		65.0	
10153- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.44	78.92	22.75	3.98	65.0	±9.6 %
		Y	7.56	76.89	21.74		65.0	-
		Z	6.48	74.70	20.30		65.0	
10154- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.59	70.97	17.50	0.00	150.0	± 9.6 %
-		Y	2.12	67.77	15.47		150.0	
		Z	2.38	70.74	17.16		150.0	-
10155- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.83	69.15	16.90	0.00	150.0	±9.6 %
4.4		Y	2.49	67.14	15.45		150.0	
3.77.3		Z	2.71	69.57	16.78		150.0	
10156- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.21	71.19	17.23	0.00	150.0	± 9.6 %
		Y	1.68	67.01	14.46		150.0	
		Z	2.01	71.01	16.65		150.0	
10157- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.40	68.89	15.72	0.00	150.0	±9.6 %
		Y	1.95	65.89	13.48		150.0	
		Z	2.19	68.70	14.94		150.0	1
10158- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.98	69.22	17.01	0.00	150.0	± 9.6 %
		Y	2.65	67.36	15.65		150.0	
		Z	2.88	69.75	16.93		150.0	-
10159- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.54	69.44	16.05	0.00	150.0	±9.6 %
		Y	2.05	66.31	13.77		150.0	_
	Less Land Alexander	Z	2.34	69.42	15.34		150.0	
10160- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.96	69.71	16.97	0.00	150.0	± 9.6 %
		Y	2.62	67.67	15.60		150.0	
		Z	2.78	69.58	16.72		150.0	
10161- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3,11	68.11	16.44	0.00	150.0	± 9.6 %
100		Y	2.83	66.60	15.34		150.0	
10105	199 999 (62)	Z	2.95	68.19	16.22		150.0	
10162- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3,21	68.15	16.50	0.00	150.0	± 9.6 %
		Y	2.94	66.74	15.46		150.0	
10100	100	Z	3.06	68.32	16.32		150.0	
10166- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	4.07	71.03	19.91	3.01	150.0	± 9.6 %
		Y	3.79	69.95	19.36		150.0	
10105		Z	3.83	71.36	19.76		150.0	
10167- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.42	74.80	20.67	3.01	150.0	± 9.6 %
		Y	4.77	72.79	19.75		150.0	

Certificate No: EX3-3938_Oct18

Page 17 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 23 of 44

EX3DV4- SN:3938

October 24, 2018

10168- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6,05	77.17	21.98	3.01	150.0	±9.6 %
		Y	5.30	75.09	21.09		150.0	
		Z	6.36	79.86	22,71		150.0	
10169- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3,85	72,93	20.70	3.01	150.0	± 9.6 %
	30. 30.0	Υ	3.33	70.15	19.41		150.0	
		Z	3.47	72.51	20.23	_	150.0	
10170- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.37	81.48	23.72	3.01	150.0	± 9.6 %
		Y	4.75	76.10	21.63		150.0	
		Z	7.01	85.04	24.72		150.0	
10171- AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz. 64-QAM)	×	4.87	75.76	20.53	3.01	150.0	± 9.6 %
		Υ	3.87	71.72	18.83		150.0	
	T	Z	4.54	76.13	20.23		150.0	
10172- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	80.41	131.60	39.78	6.02	65,0	± 9.6 %
		Y	18.51	103.18	32.14		65.0	
		Z	14.22	97.99	29.18		65.0	
10173- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	100.00	127.75	36.65	6.02	65.0	± 9.6 %
		Y	30.31	107.15	31.45		65.0	
		Z	25.08	102.02	28.13		65.0	
10174- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	60.73	116.92	33.35	6.02	65.0	± 9.6 %
		Y	21.73	99.84	28.80		65.0	
		Z	17.08	94.57	25.40		65.0	
10175- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.78	72.50	20.41	3.01	150.0	± 9.6 %
		Y	3.29	69.80	19.15		150.0	
		Z	3.40	71.98	19.88		150.0	
10176- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.38	81.51	23.73	3,01	150.0	± 9.6 %
		Y	4.76	76.12	21.65		150.0	
		Z	7.03	85.08	24.74		150.0	
10177- CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.82	72.71	20.53	3.01	150.0	± 9.6 %
		Y	3.32	69.97	19.25		150.0	
		Z	3.44	72.23	20.02		150.0	
10178- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	6.26	81.12	23.55	3.01	150.0	± 9.6 %
0.10		Y	4.70	75.86	21.51		150.0	
		Z	6.85	84.54	24.51		150.0	
10179- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.53	78.38	21.95	3.01	150.0	± 9.6 %
		Y	4.26	73.73	20.08		150.0	
		Z	5.53	80.03	22.20		150.0	
10180- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	4.85	75.63	20.46	3,01	150.0	± 9.6 %
		Y	3.85	71.63	18.78		150.0	
		Z	4.51	75.97	20.14		150.0	
10181- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.82	72.69	20.52	3.01	150.0	± 9.6 %
		Y	3,31	69,95	19.24		150.0	
Trans.		Z	3,44	72,20	20.01		150.0	
10182- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	6,25	81.09	23.54	3.01	150.0	± 9.6 %
		Y	4.70	75.84	21,50		150.0	
		Z	6,83	84.50	24.49		150.0	100
10183- AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.84	75,60	20.44	3.01	150.0	± 9.6 %
		Y	3.85	71.61	18.77		150.0	1
		12	4.50	75.94	20.13		150.0	

Certificate No: EX3-3938_Oct18

Page 18 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 24 of 44

EX3DV4- SN:3938

October 24, 2018

10184- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.83	72.74	20.54	3.01	150.0	± 9.6 %
		Υ	3.32	70.00	19.27	1	150.0	
		Z	3.45	72.26	20.04	11	150.0	
10185- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	6.29	81.18	23.58	3.01	150,0	±.9.6 %
		Y	4.72	75.91	21.53		150.0	
	The state of the s	Z	6.88	84.63	24.55		150.0	
10186- AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	4.86	75.68	20.48	3.01	150.0	±9.6 %
		Y	3.87	71.68	18,80		150.0	
	A LOCAL DISTRICT OF THE PARTY O	Z	4.53	76.04	20.17	1	150.0	
10187- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.84	72.79	20.60	3.01	150.0	± 9.6 %
		Y	3.33	70.05	19.33		150.0	
		Z	3.46	72.34	20.11		150.0	
10188- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.59	82.17	24.06	3.01	150.0	± 9.6 %
		Y	4.88	76.63	21.93	-	150.0	
14.16	The state of the s	Z	7.44	86.21	25.23	11	150.0	
10189- AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	×	5.01	76.28	20.81	3.01	150.0	± 9.6 %
		Y	3.96	72.12	19.08		150.0	
10100	1555 000 14 14 14 15	Z	4.72	76.84	20.60		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.64	66.78	16.35	0.00	150.0	± 9.6 %
		Y	4.48	66,22	15.91		150.0	
10101		Z	4.48	66.93	16.19		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.84	67.15	16.46	0.00	150.0	±9.6 %
		Y	4.66	66,55	16.03		150.0	
V0.104		Z	4.65	67.23	16.31		150.0	
10195- CAC	(EEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.88	67.16	16.47	0.00	150.0	± 9.6 %
-		Y	4.70	66.58	16.05		150.0	
10196-	IEEE OOO 44 WITHE A PROPERTY	Z	4.69	67.26	16.32		150.0	
GAG	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.66	66.88	16.38	0.00	150.0	± 9.6 %
_		Y	4.49	66.29	15.93		150.0	
10107	LIGHT BOOK AS A WINNESS	Z	4.48	66,99	16.21	100	150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.85	67.17	16.47	0.00	150.0	± 9.6 %
_		Y	4.67	66.58	16.04		150.0	
10198-	IFFF DOD AT MITTING A THE CO.	Z	4.66	67.25	16.32		150.0	
CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	Х	4.88	67.18	16.48	0.00	150.0	±9.6 %
		Y	4.70	66.60	16.06		150.0	
10219-	IEEE 202 11s /UTAP 2 7 0 15	Z	4.69	67.27	16.33		150.0	
CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.61	66.90	16.35	0.00	150.0	± 9.6 %
		Y	4.43	66.30	15.89		150.0	-
10220-	IEEE 802 44n /UT March 40 CAM	Z	4.43	67.01	16.18		150.0	50.00
CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.85	67.15	16.47	0.00	150.0	± 9.6 %
		Υ	4.67	66.56	16.04		150.0	
10221-	JEEE 802 110 /HT Mined 70 0 Min	Z	4.65	67.22	16.31		150.0	
CAC	IEEE 802.11n (HT Mixed, 72,2 Mbps, 64- QAM)	X	4.89	67.10	16.46	0.00	150.0	± 9.6 %
		Y	4.71	66.53	16.05		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	Z	4.70	67.20	16.31	100	150.0	-
CAC	BPSK)	X	5.19	67.35	16.57	0.00	150.0	±9.6 %
		Υ	5.03	66.77	16.18		150.0	
		Z	5.01	67.33	16.39		150.0	

Certificate No: EX3-3938_Oct18

Page 19 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 25 of 44

EX3DV4-SN:3938

October 24, 2018

10223- CAC	IEEE 802,11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.54	67.61	16.71	0.00	150.0	±9.6 %
		Y	5.35	66,99	16,32		150.0	
		Z	5.29	67.45	16.47		150.0	
10224- CAC	IEEE 802,11n (HT Mixed, 150 Mbps, 64- QAM)	X.	5.24	67.46	16,55	0.00	150.0	± 9.6 %
		Y	5.08	66.87	16.16		150.0	
		Z	5.06	67.45	16.38		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.94	66.61	15,90	0.00	150.0	±9.6 %
CAD		Y	2.72	65.45	14.90		150.0	
		Z	2.80	66.78	15,59	_	150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	100.00	127.97	36.79	6.02	65.0	± 9.6 %
0.0.1	10 00 1011	Y	33.01	108.86	32.02		65.0	
		Z	28.60	104.35	28.88		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	71.64	120.02	34.24	6.02	65.0	± 9.6 %
0/41	UT SET WIT	Y	27.56	104.08	30.11		65.0	
		Z	21.67	98.19	26.50	-	65.0	
10228-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	X	83.76	133.19	40.33	6.02	65.0	± 9.6 %
CAA	QPSK)	Y	27.23	111.37	34.65	5.04.	65.0	2 0.0 //
					29.65			
10000	1.TE TOD (00 FOLK) 4.DD 01": 12	Z	14.92	99.20		0.00	65.0	1000
10229- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	Х	100.00	127.75	36.66	6.02	65.0	± 9.6 %
		Y	30.45	107,22	31.48		65.0	
		Z	25.36	102.20	28.19		65.0	
10230- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	64.64	118.06	33.66	6.02	65.0	± 9.6 %
		Y	25.67	102.71	29.64		65.0	
		Z	19.55	96,45	25.91		65.0	
10231- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	74.78	130.72	39.63	6.02	65.0	± 9.6 %
		Y	25.26	109.74	34.10		65.0	
	The state of the s	Z	13.84	97.69	29.10		65.0	
10232- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	100.00	127.76	36.66	6.02	65.0	±9.6 9
		Y	30.44	107.22	31.48		65.0	
		Z	25.32	102.18	28.18		65.0	
10233- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	64.74	118.10	33.67	6.02	65.0	±9.6 %
		Y	25.65	102.71	29.64		65.0	
		Z	19.51	96.43	25.91		65.0	
10234- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	66.79	128.16	38.87	6.02	65.0	±9.69
		Y	23.59	108.16	33.53		65.0	
		Z	12.92	96.23	28.52		65.0	
10235- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	100.00	127,77	36.66	6.02	65.0	± 9.6 %
		Y	30.53	107.29	31.50		65.0	
		Z	25.37	102.23	28.19	1	65.0	
10236- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	65.78	118.34	33.73	6.02	65.0	± 9.6 %
		Y	25.93	102.87	29.68		65.0	
	7974 1 4 7 7 7 7 7	Z	19.72	96.57	25.94		65.0	
10237- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	76.22	131.13	39.74	6.02	65.0	± 9.6 %
y- 11		Y	25.46	109.93	34.16		65.0	
		Z	13.89	97.78	29.12		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	100.00	127.76	36.66	6.02	65.0	±9.6 9
10238-				The second second				1
10238- CAF	16-QAM)	Y	30.42	107.23	31.48		65.0	

Certificate No: EX3-3938 Oct18

Page 20 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 26 of 44

EX3DV4-SN:3938

October 24, 2018

10239- CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	64.82	118,13	33.68	6.02	65.0	±9.6 %
		Y	25.62	102.71	29.64		65.0	
10240- CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	19.45 75.84	96.40	25.90 39.71	6.02	65.0 65.0	± 9.6 %
	ar ory	Y	25.37	109.86	34.14		65.0	
		Z	13.84	97.74	29.11		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	12.34	87.77	28.06	6.98	65,0	±9.6 %
		Y	10.61	84.69	26.80		65.0	
		Z	9.45	83.27	25.34		65.0	
10242- CAA	LTE-TOD (SC-FDMA: 50% RB, 1.4 MHz, 64-QAM)	Х	11.90	86.96	27.68	6.98	65,0	± 9.6 %
_		Υ	9.43	82.13	25.70		65.0	
40040	LITE TOO GO FOLLY YOU OF A LIVE	Z	8.88	82.07	24.81		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	9.29	83.62	27,37	6.98	65.0	± 9.6 %
		Υ	7,60	79.19	25.41		65.0	1
10244-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz.	2	6.90	78.26	24.23	2.4	65.0	-
10244- CAC	16-QAM)	X	11.62	85.25	22.95	3.98	65.0	± 9.6 %
			9.03	81.02	21.07		65.0	
10245-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz	Z	5.90	74.19 84.37	17.01	200	65.0	1
CAC	64-QAM)	^ Y	8.74	80.23	22.59	3,98	65.0	± 9.6 %
_				22100	20.72		65.0	
10246-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz.	Z	5.76	73.60	16.72		65.0	-
CAC	QPSK)	110	13.76	91.33	25.01	3.98	65.0	± 9.6 %
_		Y Z	8.27	82.50	21.35		65.0	
10247-	LTE-TDD (SC-FDMA, 50% RB, 5 MHz.	X	5.24 8.15	75.79	17.95		65.0	
CAF	16-QAM)	Y	6.57	80.38 76.53	21.81	3.98	65.0	±9.6 %
	1.1	Z	5.10	72.95	17.52		65.0 65.0	
10248- CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.96	79.46	21.43	3.98	65.0	± 9.6 %
		Y	6,50	75.86	19.49		65.0	-
		Z	5.09	72.45	17.30		65.0	
10249- CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	14.67	92.89	26.21	3.98	65.0	± 9.6 %
		Y	9.72	85,51	23.23	_	65.0	
-	Level and a second of the second	Z	6.59	79.52	20.29		65.0	
10250- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	8.79	81.74	23.60	3.98	65.0	± 9.6 %
		Υ	7.53	78.89	22.19		65.0	
10051	LTE TOD IOG EDIA	Z	6.20	76.02	20.42		65.0	
10251- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.02	78.77	22.12	3.98	65.0	± 9.6 %
		Y	7.01	76.36	20.84		65.0	
10252-	LTE TOD (SC FDM)	Z	5.83	73.77	19.14		65.0	
0252- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	12.21	89.16	25.66	3.98	65,0	± 9.6 %
_		Y	9.34	84.33	23.66		65.0	
10253-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz.	Z	7.08	80.06	21.46		65.0	
CAF	16-QAM)	X	7.75	77.29	21.77	3.98	65.0	± 9.6 %
		Y	6.93	75.28	20.72		65.0	
10254-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z	5.92	73.10	19.23		65.0	
CAF	64-QAM)	33	8.16	78,13	22.42	3.98	65.0	±9.6%
		Y	7.34	76.22	21.42		65.0	
		Z	6.32	74.11	19.99		65.0	

Certificate No: EX3-3938_Oct18

Page 21 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 27 of 44

EX3DV4-SN:3938

October 24, 2018

10255- CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.52	82.96	23.63	3.98	65.0	±9.6 %
		Y	8.03	79.93	22.27		65.0	
		Z	6.60	77.07	20.60		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	10.25	82.65	21.16	3.98	65.0	± 9.6 %
		Y	7.42	77.45	18,77		65.0	
	AND DESCRIPTION OF THE PARTY OF	.2	4.37	69,73	14.06		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	9.67	81.35	20.60	3.98	65.0	± 9.6 %
		Υ	7.07	76.36	18.24		65.0	
		Z	4.27	69.13	13.71		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	11.24	87,41	23,06	3.98	65,0	±9.6 %
		Y	6.32	77.82	18,86		65.0	
		Z	3.88	71.16	15,20		65.0	750000
10259- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.37	80.75	22.39	3.98	65.0	±9.6 %
		Y	6.95	77.37	20.63		65.0	
72222		Z	5,53	74.09	18.58		65.0	7
10260- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.31	80.29	22.23	3.98	65.0	±9.6 %
		Y	6.94	77.04	20.51		65.0	
roker		Z	5.55	73.86	18.49		65.0	
10261- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	12.47	89.95	25.58	3.98	65.0	±9.6 %
		Y	9.00	84.05	23.10		65.0	
		Z	6.47	78.99	20.51	0.00	65.0	
10262- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.78	81.69	23.56	3.98	65.0	± 9.6 %
		Y	7.52	78.83	22.15		65.0	
		Z	6.19	75.95	20.38		65.0	
10263- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	8.01	78.76	22.12	3.98	65.0	±9.6 %
		Y	7.00	76.35	20.83		65.0	
	- TE TOO (OO FOUL 1000) DO CAN	Z	5.82	73.75	19.13	0.00	65.0	2000
10264- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	12.07	88.92	25.56	3.98	65.0	±9.6 %
		Y	9.25	84.11	23.56		65.0	-
Van en		Z	7.01	79.85	21.36	0.00	65.0	
10265- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	8.04	78.09	22,05	3.98	65.0	± 9.6 %
		Y	7.13	75.91 73.58	20.97		65.0	
10266- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	6.04 8.44	78.91	19.44 22.74	3.98	65.0 65.0	± 9.6 %
-t 11	111111111111111111111111111111111111111	Y	7.55	76.88	21.73		65.0	
		Z	6.47	74.69	20.29	-	65.0	
10267- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	10.11	83.73	23.66	3.98	65.0	±9.6 %
		Y	8.41	80.47	22.25		65.0	
		Z	6.87	77.57	20.57		65.0	
10268- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.39	77.19	22.02	3.98	65.0	± 9.6 %
		Y	7.65	75.51	21.20		65.0	
	The second secon	Z	6.70	73.67	19.92		65.0	
10269- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.26	76.63	21.86	3.98	65.0	±9.6 %
		Y	7.58	75.05	21.07		65.0	
		Z	6.67	73.30	19.83		65.0	1
10270- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8,88	79.53	22.20	3.98	65.0	± 9.6 %
		Y	7.84	77.34	21.20		65.0	
		Z	6.74	75.30	19.86		65.0	

Certificate No: EX3-3938 Oct18

Page 22 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 28 of 44

EX3DV4-SN:3938

October 24, 2018

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.69	67.00	15.83	0.00	150.0	± 9.6 %
		Y	2.47	65.61	14.67		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.83	67.27 70.14	15.58 16.96	0.00	150.0	± 9.6 %
Ono	1300.4)	Y	1.44	66.20	14.31		150.0	-
	The second secon	Z	1.70	69.74	16.44		150.0	-
10277- CAA	PHS (QPSK)	X	3.93	66.44	11.36	9.03	50.0	±9.6 %
		Y	3.47	64.75	10.20		50.0	
400	V	Z	2.62	62.17	7.82	100	50.0	
10278- CAA	PHS (OPSK, BW 884MHz, Rolloff 0.5)	X	14.62	89.25	23.47	9.03	50.0	1.9.6 %
_		Y	7.61	78.00	18,87		50.0	
10279-	DUC JORCH DIM COMMIT DI II ME DOL	Z	4.29	69,20	13.78		50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	14.85	89.41	23.56	9.03	50.0	± 9.6 %
			7.77	78.24	18.99		50.0	
10290-	CDMA2000, RC1, SO55, Full Rate	Z	4.39	69.44	13.93	0.00	50.0	
AAB	SUMPLEUD, NOT, SUSS, Pull Rate	X	1.20	73.72 65.83	17.06	0.00	150.0	± 9.6 %
		Z	1.79	72.49	12.24		150.0	
10291-	CDMA2000, RC3, SQ55, Full Rate	X	1.79	70.51	15.56	0.00	150.0	
AAB	OBINAZOGO, NOS, SOGS, TUIL NAIE	Y	0.67		15.66	0.00	150.0	± 9.6 %
		Z	0.07	63.17	10.49		150.0	
10292-	CDMA2000, RC3, SO32, Full Rate	X	1.93	68.71	13.80	0.00	150.0	
AAB	ODMINESON, NOS, SOSE, Pull Nate	Ŷ	0.76	79.24	19.72	0.00	150.0	±9.6 %
		Z	2.01	65.41 80.04	12.01		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	4.24	91.88	18.85 24.62	0.00	150.0 150.0	±9.6 %
		Y	0.99	68.94	14.19		150.0	
		Z	16.88	110.82	28,51		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	12,27	89.66	26,50	9.03	50.0	± 9.6 %
		Y	10.64	85.72	24.40		50.0	
-		Z	6.99	77.74	20.11		50.0	
10297- AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.09	71.44	17.51	0.00	150.0	± 9.6 %
_		Y	2.59	68.47	15.73		150.0	
10298-	LIFE FOR 16 C WILLIAM STATE	Z	2.87	71,14	17.24		150.0	
AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.03	71.15	16.52	0.00	150.0	± 9.6 %
		Y	1.39	65.75	12.91	-	150.0	
10299-	LTE-FDD (SC-FDMA, 50% RB, 3 MHz.	Z	1.75	70.22	15.26		150.0	
AAD	16-QAM)	X	4.66	77.12	18.36	0.00	150.0	± 9.6 %
		Z	3.14	71.60	15.64		150.0	
10300-	LTE-FDD (SC-FDMA, 50% RB, 3 MHz,	X	3.75 2.97	74.00	15.70	8.55	150.0	
AAD	64-QAM)	X	2.97	69.66 66.29	14.52	0.00	150.0	± 9.6 %
		Z	2.26	66.32	12.46		150.0	
10301- AAA	IEEE 802,16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.32	66.98	11.62 18.36	4.17	150.0 50.0	± 9.6 %
		Y	5.22	66.88	18,11		50.0	
		Z	4.67	65.61	17.38		50.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.74	67.34	18.93	4.96	50.0	± 9.6 %
		Y	5.58	66.87	18,46	_		
			0.00	- 00.07	10.40		50.0	

Certificate No: EX3-3938_Oct18

Page 23 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 29 of 44

EX3DV4-SN:3938

October 24, 2018

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.54	67.22	18.91	4.96	50.0	±9.6%
		Y	5.37	66.70	18.39		50.0	
		Z	4.93	65.95	17,95		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.28	66.83	18.25	4.17	50.0	±9.6 %
		Y	5.10	66.29	17.74		50.0	
		Z	4.73	65.82	17.46	0.00	50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	5.67	72.27	22.34	6.02	35.0	±9.6 %
		Y	5.72	72.48	21.90		35.0	
		Z	4.66	68.90	20.05		35.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PÜSC, 18 symbols)	X	5.47	68.37	20,21	6.02	35.0	±9.6 %
		Υ	5.52	69.50	20.64		35.0	
		Z	4.82	67.24	19.32		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.58	70.12	21.19	6.02	35.0	± 9.6 %
		Y	5.54	70.11	20.79		35.0	
	the contract of the contract of	Z	4.75	67.57	19.37		35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	5,58	70.46	21.39	6.02	35.0	± 9.6 %
22		Y	5.56	70.49	21.00		35.0	
	AND AND ASSESSMENT OF THE PARTY	Z	4.74	67.84	19.54		35.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.56	68.68	20.38	6.02	35.0	± 9.6 %
		Y	5,61	69.80	20.81		35.0	
		Z	4.87	67.43	19.45		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.54	69.67	21.04	6.02	35.0	± 9.6 %
		Y	5.51	69.73	20.68		35.0	
		Z	4.78	67.38	19.33		35.0	
10311- AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.47	70.67	17.10	0.00	150.0	± 9.6 %
		Y	2.93	67.81	15.46		150.0	
		Z	3.26	70.40	16.86		150.0	
10313- AAA	IDEN 1:3	X	10.55	84.71	20.54	6.99	70.0	± 9.6 %
		Y	5.52	75.51	16.93		70.0	
		Z	3.35	69.99	14.11		70.0	
10314- AAA	IDEN 1:6	Х	24.93	102.67	28.79	10.00	30.0	± 9.6 %
		Y	8.40	84.46	22.81		30.0	
		Z	4.59	75.67	18.98		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.16	65.40	16.44	0.17	150.0	± 9.6 %
		Y	1.01	63.11	14.44		150.0	
		Z	1.08	64.77	15.73	1	150.0	1
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.72	66.92	16.53	0.17	150.0	± 9.6 %
		Y	4.56	66.38	16.12		150.0	
	Targette and the Committee of	Z	4.51	66,86	16.22		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.72	66.92	16.53	0.17	150.0	± 9.6 %
		Y	4.56	66,38	16,12		150.0	-
		Z	4.51	66.86	16.22		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.84	67.20	16.45	0.00	150.0	± 9.6 %
		Y	4.66	66.61	16.02		150.0	
	Talle and the same of the same	Z	4.63	67.25	16.28		150.0	12.
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.46	67.20	16.49	0.00	150.0	± 9.6 %
7.7		Υ	5.35	66.85	16.23		150.0	
		Z	5.28	67.24	16.32		150.0	

Certificate No: EX3-3938_Oct18

Page 24 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 30 of 44

EX3DV4-SN:3938

October 24, 2018

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.76	67.75	16.60	0.00	150.0	± 9.6 %
		Y	5.61	67.21	16.26		150.0	
0.00		Z	5.57	67.70	16.42	-	150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.10	73.72	17,06	0.00	115.0	± 9.6 %
		Y	1.20	65.83	12.24		115.0	-
-		Z	1.79	72.49	15.56		115.0	-
10404- AAB	CDMA2000 (1xEV-DO; Rev. A)	X	2.10	73.72	17,06	0.00	115.0	± 9.6 %
		Y	1.20	65.83	12.24		115.0	-
		Z	1.79	72.49	15.56		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	122.19	31.29	0.00	100.0	± 9.6 %
		Y	29.24	105.80	27.50		100.0	
	The state of the s	Z	100.00	114.73	27.11		100.0	
10410- AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	121.06	30.81	3.23	80.0	± 9.6 %
		Y	100.00	121.88	31.03		80.0	
		Z	83.71	111.58	25.89		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.90	15.54	0.00	150.0	± 9.6 %
		Y	0.91	61.92	13.65		150.0	
	PARKET WALLS TO SEE	Z	0.99	63.88	15.24		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.64	66.82	16,39	0.00	150.0	± 9.6 %
		Y	4.48	66.26	15.97		150.0	
		Z	4.48	66,96	16.25		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.64	66.82	16,39	0.00	150.0	± 9,6 %
		Y	4.48	66.26	15.97		150.0	
	The second secon	Z	4.48	66.96	16.25		150.0	
10418- AAA	JEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	×	4,63	66.97	16.41	0.00	150.0	± 9.6 %
		Y	4.47	66.40	15.97		150.0	
		Z	4.47	67.14	16.29		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.65	66.92	16.41	0.00	150.0	± 9.6 %
		Y	4.49	66.36	15.98		150.0	
12112		2	4.49	67.08	16.28		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.78	66.92	16.42	0.00	150.0	±9.6 %
		Y	4.61	66.37	16,01		150.0	
10100	IFFE 600 Ct. WITE	Z	4.61	67.05	16.28		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.98	67.29	16.55	0.00	150.0	± 9.6 %
		Y	4.79	66.71	16.13		150.0	
10424-	IEEE 802 14s (NT O E N FE	Z	4.77	67.36	16.39	-	150.0	
AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.89	67.24	16.52	0.00	150.0	± 9.6 %
		Y	4.70	66.65	16.10		150.0	
10425-	IEEE 902 14- (UT C C C	Z	4.69	67.32	16.37		150.0	-
AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.44	67.47	16.62	0.00	150.0	±9.6 %
		Y	5.32	67.05	16.33	7 721	150.0	
10426-	JEEE 902 11= WT C	Z	5.25	67.48	16.46		150.0	
AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	×	5.45	67.50	16,63	0.00	150.0	±9.6 %
		Y Z	5.32	67.06	16.33		150.0	
			5.26	67.50	16.46			

Certificate No: EX3-3938_Oct18

Page 25 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 31 of 44

EX3DV4-SN:3938

October 24, 2018

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.47	67.52	16.63	0.00	150.0	±9.6 %
		Y	5.33	67.04	16.31		150.0	
		2	5.28	67.50	16.46		150.0	
10430- AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.44	70.94	18.55	0.00	150.0	±9.6 %
		Y	4.14	70.00	17.76		150.0	
		Z	4.53	72.71	19.04		150.0	
10431- AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.38	67.45	16.50	0.00	150.0	±9.6 %
		Y	4.17	66.74	15.93		150.0	
		Z	4.18	67.60	16.31		150.0	_
10432- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.67	67.30	16.51	0.00	150.0	±9.6 %
		Y	4.47	66.66	16.03		150.0	
	The same of the sa	Z	4.47	67.41	16.34		150.0	
10433- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.90	67.28	16.55	0.00	150.0	± 9.6 %
		.A.	4.72	66.69	16.12		150.0	
		Z	4.71	67.36	16.39	-	150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X.	4.58	71.86	18.63	0.00	150.0	±9,6 %
		Y	4.21	70.69	17.67		150.0	
		Z	4.78	74.08	19.21		150.0	
10435- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X.	100.00	120.88	30,73	3.23	0.08	± 9.6 %
		Y	100.00	121.69	30.95		80.0	
	The second second	Z	66.38	108.66	25.18		80.0	
10447- AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.72	67.65	16.10	0.00	150.0	± 9.6 %
-		Y	3:44	66.58	15.18		150.0	
		Z	3.50	67.81	15.74		150.0	
10448- AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.21	67.23	16.37	0.00	150.0	±9.6 %
		Y	4.00	66.50	15.77	-	150.0	
	V 10 10 10 10 10 10 10 10 10 10 10 10 10	Z	4.02	67.40	16.18		150.0	
10449- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.46	67.14	16.42	0.00	150.0	± 9.6 %
		Y	4.27	66.48	15.91		150.0	
	L. Principalita and the second	Z	4.28	67.27	16.26		150.0	
10450- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.64	67.06	16.42	0.00	150.0	± 9.6 %
7010	- Company	Y	4.47	66.43	15.96		150.0	
		Z	4.47	67.16	16.26		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.66	68.00	15.89	0.00	150.0	± 9.6 %
		Y	3.33	66.69	14.77		150.0	
		Z	3.40	68.05	15.38		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.29	68.08	16.78	0.00	150.0	±9.6 %
		Y	6.17	67.63	16.50		150.0	
	the state of the s	Z	6.11	68.01	16.58		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.83	65,45	16.13	0.00	150.0	± 9.6 %
		Y	3.72	64.89	15.67		150.0	
	A STATE OF THE STA	Z	3.74	65.60	15.98		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.16	70.93	18.07	0.00	150.0	± 9.6 %
		Y	3.83	69.80	17.01		150.0	
	Maria de la composición della	Z	4.35	73.12	18.49		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	×	5.20	68.00	18.25	0.00	150.0	±9.6 %
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	5.01	67.77	17.91	-	150.0	

Certificate No: EX3-3938_Oct18

Page 26 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 32 of 44

EX3DV4- SN:3938

October 24, 2018

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	1.12	72.77	18.83	0.00	150.0	± 9.6 %
		Y	0.73	65.44	13.95		150.0	
		Z	1.01	71.76	18.00		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.43	33.33	3.29	80.0	± 9.6 %
		Y	100.00	125.87	32.93		80.0	
		Z	90.37	116.03	27.82	-	80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	100.00	109.98	25.58	3.23	80.0	± 9.6 %
		Y	100.00	109.45	25.26		80.0	
		Z	1.10	60.79	7.88		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.70	24.02	3.23	80.0	± 9.6 %
		Y	49.13	98.79	22.03		80.0	
		Z	1.03	60.00	7.05		80.0	
10464- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7.8,9)	X	100.00	124.44	32.24	3.23	80.0	± 9.6 %
		Y	100.00	123.71	31.77		80.0	
0.4048		Z	25.98	98.94	23.07		80.0	
10465- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.41	25.30	3.23	80.0	±9.6 %
		Y	100.00	108.89	24.99		80.0	
40466	LEE TOD IOG FOLL	Z	1.05	60.34	7.60		80.0	
10466- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.17	23.77	3.23	0.08	± 9.6 %
		Y	17.42	87,73	19.16		0.08	
10467- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	X	1.03	60.00 124.67	7,00	3.23	80.0	± 9.6 %
AAE	QPSK, UL Subframe=2,3,4,7,8,9)	Y	100.00	123.95	31.88		80.0	- 10/
10100		Z	34.96	102.47	23.96		80.0	
10468- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.58	25.38	3.23	80.0	± 9.6 %
		Y	100.00	109.06	25.07		80.0	
10469-	(THE MARK LAND AND LAND L	Z	1.06	60.45	7.67		80.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100,00	106,18	23.77	3.23	80.0	± 9.6 %
		Y	18.04	88.11	19.26		80.0	
10140	1.00	Z	1.03	60.00	7.00		80.0	
10470- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.71	32.35	3.23	80.0	±9.6 %
		Y	100.00	123.98	31.88		80.0	
10471-	LTE TOD (SC CDM) 4 DO 40 M	Z	35.24	102.56	23.97	E	80.0	-
AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.53	25.35	3.23	80.0	±9.6 %
		Y	100.00	109.01	25.04		80.0	
10472-	LTE TOD (CC EDMA 4 DD 404W)	Z	1.05	60.40	7.64		80.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.13	23.74	3.23	80.0	±9.6 %
		Y	17.90	88:00	19.21		80.0	
10473-	LITE TOD (SC EDMA + SD +511)	Z	1.03	60.00	6.99		80.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.67	32.34	3.23	80.0	±9.6%
		Y	100.00	123.95	31.87		80.0	
10474-	LTE-TOD (SC EDMA 4 DD 45 M)	Z	34.67	102.34	23.91		80.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109,54	25.35	3.23	80.0	± 9.6 %
		Y	100.00	109.01	25.04		0.08	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	Z	1.05	60.39	7.63		80.0	
AAE	QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.14	23.74	3.23	80.0	± 9.6 %
		Y	17.52	87.78	19.16	- 7	80.0	
		Z	1.03	60.00	6.99		80.0	

Certificate No: EX3-3938_Oct18

Page 27 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 33 of 44

EX3DV4-SN:3938

October 24, 2018

10477- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.37	25.27	3,23	80.0	± 9.6 %
		Υ	100.00	108.84	24.96		80.0	
		Z	1.03	60.28	7.55		80.0	
10478- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100,00	106.09	23.72	3.23	80.0	±9,6%
		Y	17.03	87.46	19.06		80.0	
		Z	1.03	60.00	6.98		0.08	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	32,47	108.40	30.35	3.23	80.0	± 9.6 %
	at ord or oddinand appropriate	Y	23.42	102.58	28.36		80.0	
		Z	8.33	85.84	21.97		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	42.90	105.02	27.50	3.23	80.0	±9.6 %
		Υ	20.70	94.12	24.14		80.0	
		Z	6.08	76.74	17.02		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	32.63	100.01	25.80	3.23	80.0	± 9.6 %
	o , co mil on contamo alol ili lele)	Y	15.67	89.38	22.38		80.0	
		Z	4,46	72.49	15.13		80.0	
10482-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	X	9.20	87.35	23.04	2.23	80.0	±9.6 %
AAB	QPSK, UL Subframe=2,3,4,7,8,9)	Y	3.94	74.35	17.65	2.20	80.0	2 3.0 76
								-
10483-	LEE TOD (CO FOLIA FOR OD CAME)	Z	2.70	70.00 90.75	15.33 23.81	2.23	80.0	±9.6 %
10483- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	15.24	3.17.3	10.416.7	2.23	1000	± 9.6 %
		Υ	9.78	83.78	21.08		80.0	
		Z	3.87	71.04	15.19	2.20	80.0	
10484- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	12.87	88.08	23.00	2.23	80.0	± 9.6 %
		Y	8.49	81.59	20.36		80.0	
	The state of the s	Z	3.66	70.14	14.84		80.0	
10485- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.98	85.70	23.28	2.23	80.0	± 9.6 %
		Y	4.36	75.94	19.15		80.0	
		Z	3.22	72.33	17.26		80.0	40-
10486- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.36	76.17	19,55	2.23	80.0	± 9.6 %
		Y	3.79	70.74	16.72		80.0	
		Z	3.08	68.57	15.26		80.0	
10487- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	75.40	19.25	2.23	80.0	± 9.6 %
/ U IL	Of Quin, OE Gapitano Ejorni (eje)	Y	3.77	70.31	16.54		80.0	
		Z	3.08	68.23	15.10		80.0	
10488- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.58	81.06	22.14	2.23	80.0	± 9.6 %
		Y	4.49	74.73	19.35		80.0	
		Z	3.58	72.12	17.94		80.0	J
10489- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.86	73.47	19.42	2.23	80.0	±9,6%
		Y	4.01	70.32	17.71		80.0	
		Z	3.48	68.92	16.70		80.0	
10490- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.88	72.95	19.23	2,23	80.0	± 9.6 %
		Y	4.10	70,09	17.64		80.0	
		Z	3.57	68.77	16.66		80,0	
10491- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.85	76,95	20.70	2.23	80.0	±9.6 %
		Y	4.52	72.66	18.69		80.0	
		Z	3.82	70,84	17.60		80.0	-
10492- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.94	71.68	18.90	2.23	80.0	±9.69
MIL	TO SO MA, OF SOUNDAME - E,O,T. (10,0)	Y	4.31	69.40	17.63		80.0	1

Certificate No: EX3-3938_Oct18

Page 28 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 34 of 44

EX3DV4- SN:3938

October 24, 2018

10493- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4,97	71.38	18.79	2.23	80,0	±9.6 %
		Y	4.37	69.24	17.58		80.08	
10494-	LTE TOO OO FOLLA FOR DE COANT	Z	3.90	68.20	16.76		80.0	
AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6,95	79.86	21.58	2.23	80.0	± 9.6 %
		Y	4.99	74.37	19.18		80.0	
		Z	4.13	72.26	18.02		80.0	7
10495- AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	5.07	72.39	19.18	2.23	80.0	±9.69
		Y	4.37	69.87	17.84		80.0	
		Z	3.87	68.70	16.98		80.0	
10496- AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.07	71.80	18,98	2.23	80.0	± 9.6 %
		Y	4.43	69.53	17.74		80.0	
	Daniel Control of the	Z	3.95	68.45	16.92		80.0	
	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	7.77	84.28	21.25	2.23	80.0	± 9.6 %
		Y	2.76	69.51	14.83		80.0	
VA144	1	Z	1.83	65.26	12.27		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.10	72.22	15.94	2.23	80.0	± 9.6 %
		Y	2.08	63.53	11.20		80.0	
	The state of the s	Z	1.49	60.84	9.11		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.88	71.14	15.38	2.23	80.0	± 9.6 %
		Y	2.02	62.98	10.80		80.0	
		Z	1.45	60.40	8.75		80.0	-
10500- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	6.85	82.59	22.44	2.23	80.0	± 9.6 %
		Y	4.30	75.01	19.09		80.0	
		Z	3.32	71.99	17.46		80.0	
10501- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.08	74.80	19.39	2.23	0.08	± 9.6 %
		Y	3.90	70.59	17.11		80.0	
10500	1	Z	3.27	68.83	15.87		80.0	-
10502- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.08	74.42	19.19	2.23	80.0	± 9.6 %
		Y	3.94	70.38	16.98		80.0	
		Z	3.32	68.68	15.75		80.0	
10503- AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.47	80.76	22.03	2.23	80.0	± 9.6 %
		Y	4.42	74.51	19.24		80.0	
10501	1.00	Z	3,53	71.90	17.84	44	80.0	
10504- AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.84	73.36	19.37	2.23	80.0	± 9.6 %
_		Y	3.99	70.22	17.65		80.0	
10505-	LTE TOD /CC COMA 4000/ DC TITL	Z	3.46	68.82	16.64		80.0	
AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.85	72.84	19.17	2.23	80.0	± 9.6 %
		Υ	4.07	69.98	17.58		80.0	
10506-	LIE-TDD (SC-FDMA, 100% RB, 10	Z	3.55	68.67	16.60		80.0	
AAE	MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.87	79.65	21.49	2.23	80.0	± 9.6 %
		Z	4.94	74.20	19.10		0.08	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10		4.10	72.10	17.94	1722	80.0	
AAE	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	.X.	5.05	72.32	19.14	2.23	0.08	± 9.6 %
		Y	4.35	69.81	17.80		80.0	

Certificate No: EX3-3938_Oct18

Page 29 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 35 of 44

EX3DV4-SN:3938

October 24, 2018

10508- AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.05	71.72	18.93	2.23	80.0	±9.6 %
		Y	4.41	69.46	17.70		80.0	
		Z	3.93	68.38	16.87		80.0	
10509- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.42	76.31	20.23	2.23	80.0	±9.6 %
		Y	5.10	72.45	18.45		80.0	
		Z	4.44	71.04	17.56		80.0	-
10510- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	5,41	71.43	18.82	2.23	80.0	±9.6 %
		Y	4.81	69.39	17.73		80.0	
	Contraction of the Contraction	Z	4.34	68.44	16.99		0.08	
10511- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.40	70.96	18.67	2,23	80.0	± 9.6 %
		Y	4.84	69.09	17.65		80.0	
		Z	4.39	68.21	16.94		80.0	
10512- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7,47	79,47	21.24	2.23	80.0	± 9.6 %
	and the state of t	Y	5.46	74.25	18.99		80.0	
		Z	4.64	72.47	17.97		80.0	
10513- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5,39	72.08	19.07	2.23	80.0	± 9.6 %
		Y	4.72	69.76	17.86		80.0	
	Marian Carlotta Carlo	Z	4.23	68.69	17.07		80.0	
10514- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.30	71.34	18.83	2.23	80.0	± 9.6 %
		Y	4.71	69.27	17.73		80.0	
		Z	4.25	68.30	16.97		80.0	
10515- AAA	JEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.99	64.18	15.67	0.00	150.0	± 9.6 %
		Y	0.87	62.03	13.65		150.0	
		Z	0.96	64.13	15.35	= -	150.0	- I
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.07	82.62	23.29	0.00	150.0	±9.6 %
		Y	0.42	66.18	13.67		150.0	
	The second secon	Z	0.79	78.03	21.08		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.89	67,34	17.01	0.00	150.0	±9.6 %
		Y	0.70	63.35	13.75	150	150.0	
		2	0.83	66.82	16.43		150.0	
10518- AAB	IEEE 802,11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.64	66,90	16.38	0.00	150.0	±9.6 %
		Y	4.47	66.33	15.94		150.0	
	I have been a second	Z	4.47	67,04	16.24		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.85	67.18	16.51	0.00	150.0	±9.6 %
		Y	4.67	66,59	16.08	-	150.0	
	the second second second second	Z	4.65	67.25	16.34		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	Х	4.71	67.17	16.45	0.00	150.0	±9.6 %
		Y	4.52	66.54	15.99		150.0	
	The second secon	Z	4.51	67.23	16.28		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.64	67,19	16.44	0.00	150.0	± 9.6 %
		Y	4.45	66.53	15.97		150.0	
	Edit Annual Control	Z	4.44	67.24	16.27		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.69	67.17	16.48	0.00	150.0	± 9,6 %
		Υ	4.51	66.60	16.04		150.0	
		Z	4.50	67.33	16.35		150.0	

Certificate No: EX3-3938_Oct18

Page 30 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 36 of 44

October 24, 2018

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.56	67.08	16.34	0.00	150.0	± 9.6 %
		Y	4.38	66.45	15.88		150.0	
romat.	termin and the street of the	Z	4.39	67.23	16,22		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4,64	67.13	16.46	0.00	150.0	± 9.6 %
		Y	4.45	66.52	16.01		150.0	
1300	The second second second	Z	4.44	67.24	16.32		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.60	66.17	16.06	0.00	150.0	±9.6 %
		Y	4.43	65.55	15.60		150.0	
		Z	4.44	66.33	15.94	1	150.0	
10526- AAB	IEEE 802.11ar: WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.80	66.57	16.20	0.00	150.0	1 9.6 %
		Y	4.60	65.93	15.75		150.0	
	The state of the s	Z	4.61	66.68	16.07		150.0	
10527- AAB	IEEE 802,11ac WiFi (20MHz, MCS2, 99pc duty cycle)	×	4.72	66.55	16.16	0.00	150.0	± 9.6 %
		Y	4.52	65.88	15.69		150.0	
	Annual Annual Conference of the Conference of th	Z	4.53	66.66	16.02		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	×	4.73	66.57	16.19	0.00	150.0	± 9.6 %
		Y	4.54	65.90	15.72		150.0	
	A STATE OF THE STA	Z	4.55	66.67	16.05		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.73	66.57	16.19	0.00	150.0	± 9.6 %
		Y	4.54	65.90	15.72		150.0	
		Z	4.55	66.67	16.05		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.74	66.72	16.22	0.00	150.0	±9.6 %
		Y	4.53	66.01	15.73		150.0	
		Z	4.53	66.77	16.06		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.60	66.59	16.17	0.00	150.0	±9.6 %
		Y	4.39	65.86	15.66		150.0	
		Z	4.40	66.64	16.01		150.0	
10533- AAB	IEEE 802,11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.75	66.60	16.17	0.00	150.0	± 9.6 %
		Y	4.55	65.94	15.70		150.0	
	The second secon	Z	4.56	66.73	16.05		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.24	66.67	16.21	0.00	150.0	± 9.6 %
		Y	5.08	66.08	15.82		150.0	
		Z	5.06	66.70	16.06		150.0	-
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.31	66.81	16.26	0.00	150.0	±9.6 %
		Y	5.14	66.24	15.89		150.0	
10500		Z	5.12	66.85	16.13		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.18	66.81	16.25	0.00	150.0	±9.6 %
		Y-	5.01	66.19	15.84		150.0	
40507		Z	5.00	66.84	16.11		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.24	66.77	16.23	0,00	150.0	± 9.6 %
		Υ	5.07	66.17	15.84		150.0	
10520	IEEE 000 44 - IAIRE	Z	5.06	66.79	16.08		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	5.35	66.82	16.29	0.00	150.0	± 9.6 %
		Y	5.17	66.21	15.90		150.0	
10540-	IEEE 000 44 MIEE (1914)	Z	5.14	66.79	16.12		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.25	66.78	16.29	0.00	150.0	±9.6 %
		Y	5.09	66.21	15.91		150.0	
		7	5.07					

Certificate No: EX3-3938_Oct18

Page 31 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 37 of 44

EX3DV4~ SN:3938

October 24, 2018

10541- AAB	IEEE 802.11ac WiFI (40MHz, MCS7, 99pc duty cycle)	х	5.24	66.69	16.24	0.00	150.0	±9.6 %
		Y	5.06	66,08	15.84		150.0	
11.70	Physical Control of the Control of t	Z	5.05	66:69	16.08		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.38	66.72	16.27	0.00	150.0	±9.6 %
		Y	5.22	66.16	15.90		150.0	
		Z	5.20	66.74	16.12		150.0	
10543- AAB	IEEE 802,11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.47	66.74	16.29	0.00	150.0	±9.6 %
		Y	5.30	66.21	15.95		150.0	
	(I am to the to the total of t	Z	5.27	66.76	16:14		150.0	
10544- AAB	IEEE 802,11ac WiFi (80MHz, MCS0, 99pc duty cycle)	×	5.52	66,77	16.19	0.00	150.0	± 9.6 %
		Y	5.38	66.20	15.82		150.0	
	The factors of the first of	Z	5.37	66.80	16.04		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.72	67.14	16.31	0.00	150.0	± 9.6 %
		Y	5.58	66.63	15.99		150.0	
		Z	5.53	67.12	16.15		150.0	
10546- AAB	IEEE 802,11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.61	67.04	16.28	0.00	150.0	± 9.6 %
		Y	5.45	66.44	15.91		150.0	
	The state of the s	Z	5.43	66.99	16.10		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.70	67.12	16.31	0.00	150.0	± 9.6 %
		Y	5.53	66.49	15.92		150.0	
		Z	5.50	67.02	16.11		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.93	67,96	16.70	0.00	150.0	± 9.6 %
		Y	5.82	67.53	16,41		150.0	
	A CONTRACT OF STREET OF STREET	Z	5.64	67.63	16.39		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.63	67.00	16.27	0.00	150.0	±9.6 %
		Y	5.47	66.43	15.91		150.0	
27.	And the second s	Z	5.45	67.00	16.12		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.65	67.07	16.26	0.00	150.0	±9.6 %
		Y	5.48	66.48	15.89		150.0	
	The state of the s	Z	5.46	67.04	16.10		150.0	-
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.55	66.86	16.18	0.00	150.0	± 9.6 %
		Y	5.39	66.26	15.80		150.0	
	for the transport of the control of	Z	5.39	66.89	16.04		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.65	66.91	16.22	0.00	150.0	± 9.6 %
		Y	5.48	66.32	15.86		150.0	
	A CONTRACTOR OF THE CONTRACTOR	Z	5.47	66.91	16.07		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.92	67.13	16.27	0.00	150.0	± 9.6 %
		Y	5.78	66.58	15.93		150.0	
		Z	5.77	67.13	16.11		150.0	1000
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.06	67.44	16.39	0.00	150.0	± 9.6 %
		Y	5.92	66.89	16.06		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	X	5.88 6.07	67.38 67.47	16.21 16.40	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	1		0000	40.05		450.6	-
		Y	5.94	66.94	16.07	_	150.0	-
12-0-1		Z	5.90	67.42	16.23	0.05	150.0	1000
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.06	67.43	16.40	0.00	150.0	± 9.6 %
	A CONTRACTOR OF THE PROPERTY O	Z	5.91	66.85	16.05		150.0 150.0	
			5.87	67.36				

Certificate No: EX3-3938_Oct18

Page 32 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 38 of 44

EX3DV4-SN:3938

October 24, 2018

10558- AAC	IEEE 802,11ac WIFI (160MHz, MCS4, 99pc duty cycle)	X	6.11	67.60	16.50	0.00	150.0	± 9.6 %
		Y	5.96	67.02	16.15		150.0	
1	A TANK THE PARTY OF THE PARTY O	Z	5.91	67.50	16.30		150.0	
10560- AAC	IEEE 802,11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.11	67.46	16,47	0.00	150.0	±9.6 %
		Y	5.95	66.87	16.11		150.0	
	The second second second	Z	5.92	67.38	16.28	1.7	150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.02	67.40	16.48	0.00	150.0	± 9.6 %
		Y	5.87	66.84	16.13		150.0	
		Z	5.84	67.33	16.29		150.0	
10562- AAC	IEEE 802 11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.16	67.82	16.69	0.00	150.0	1 9.6 %
		Y	6.01	67.26	16.35		150.0	
	I I I I I I I I I I I I I I I I I I I	Z	5.93	67.63	16.44	V.	150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.47	68.29	16.86	0.00	150.0	± 9,6 %
		Y	6.34	67.82	16.58		150.0	
20001	1-11-1	2	6.09	67.70	16.43		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.97	66.98	16.53	0,46	150.0	± 9.6 %
		Y	4.81	66.46	16.14		150.0	
10555	IEEE OOG 14 MINISTER	Z	4.78	67,02	16.32		150.0	
10565- AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5,23	67,46	16.85	0.46	150.0	± 9.6 %
		Y	5.05	66,93	16.47		150.0	
10505	1999 644 111 111	Z	5.01	67.49	16.66	Low	150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.06	67.34	16.69	0.46	150.0	±9.6 %
		Y	4.88	66.77	16.28		150.0	
		2	4.84	67.32	16.46		150.0	
10567- AAA	JEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.09	67.74	17.04	0.46	150.0	±9.6 %
		Y	4.91	67.15	16.63		150.0	
75.00		Z	4.89	67.80	16.87		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.97	67.07	16,45	0.46	150.0	±9.6 %
		Y	4.80	66.54	16.05		150.0	
	Telescope and the second	Z	4.74	67.03	16.19		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.03	67.78	17.08	0.46	150.0	±9,6 %
		Y	4.86	67,22	16.68		150.0	
10000		Z	4.85	67.93	16.95		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.08	67.62	17.01	0.46	150.0	± 9.6 %
_		Y	4.90	67.08	16.62		150.0	
ANEMA	Defense and a second	Z	4.88	67.73	16.86		150.0	1 1
10571- AAA	IEEE 802,11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.32	66.77	17.12	0.46	130.0	± 9.6 %
		Y	1.14	64.23	15.06		130.0	
		Z	1.17	65.28	15.86		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.36	67.60	17.59	0.46	130.0	±9.6 %
		Y	1.16	64.80	15.39		130.0	
Anerin	IEEE OOD AN ANDERSON	Z	1.19	65.98	16.28		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	100.00	150.25	40.35	0.46	130.0	± 9.6 %
		Y	1.94	81.80	20.21		130.0	
10571	IEEE OOD AAL MEEL	Z	5.37	101.40	27.76		130.0	
10574- AAA	IEEE 802,11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.86	77.53	22.17	0.46	130.0	± 9.6 %
		Y	1.28	70.31	17.98		130.0	
		Z	1.45	73.83	20.12			

Certificate No: EX3-3938_Oct18

Page 33 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 39 of 44

EX3DV4-SN:3938

October 24, 2018

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.77	66.82	16.63	0.46	130.0	±9.6 %
		Y	4.62	66.32	16.23		130.0	
	Annual Control of the	2	4.56	66.75	16.29		130.0	
10576- AAA	IEEE 802.11g WiFl 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.80	66.99	16.69	0.46	130.0	± 9.6 %
		Y	4.64	66.47	16.29		130.0	
		Z	4.59	66.94	16.38		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.03	67.31	16.86	0.46	130.0	±9.6 %
	C. Citi, Iz more, cono any oftan	Y	4.85	66.78	16.47		130.0	
		Z	4.78	67.21	16.54		130.0	-
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.93	67.50	16.98	0.46	130.0	± 9.6 %
		Y	4.75	66.94	16.57		130.0	
		Z	4.69	67.42	16.68		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.69	66.84	16.33	0.46	130.0	± 9.6 %
		Y	4.52	66.24	15.89		130.0	
		Z	4.43	66.57	15.89		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.74	66.81	16.32	0.46	130.0	± 9.6 %
	1,00	Y	4.57	66.26	15.90		130.0	
	2020 2 3 2 2 2 3	Z	4.47	66.59	15.90		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.83	67.59	16.95	0.46	130.0	±9.6 %
	The second stands	Y	4.65	66.98	16.51		130.0	
		Z	4.59	67.47	16.62		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.64	66.58	16.12	0.46	130.0	± 9.6 %
7001	Ci Din, or mopo, copo dary cyarey	Y	4.47	66.00	15.67		130.0	
		Z	4.36	66.28	15.65		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps. 90pc duty cycle)	X	4.77	66.82	16.63	0.46	130.0	± 9.6 %
		Y	4.62	66.32	16.23		130.0	
		Z	4.56	66.75	16.29		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.80	66.99	16.69	0.46	130.0	±9.6 %
7 4 10	this policy of the same of the	Y	4.64	66.47	16.29		130.0	
		Z	4.59	66.94	16.38		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.03	67.31	16.86	0.46	130.0	± 9.6 %
7.4.40	Hippor cope and a just	Y	4.85	66.78	16.47		130.0	
		Z	4.78	67.21	16.54	7-1-1	130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.93	67.50	16.98	0.46	130.0	± 9.6 %
		Y	4.75	66.94	16.57		130.0	
		Z	4.69	67.42	16.68		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.69	66.84	16.33	0.46	130.0	±9.6 9
	The state of the s	Y	4.52	66.24	15,89	1	130.0	
		Z	4.43	66.57	15.89		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.74	66.81	16.32	0.46	130.0	±9.6 9
		Y	4.57	66.26	15.90		130.0	
		Z	4.47	66.59	15.90	-	130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.83	67.59	16.95	0.46	130.0	±9.6
		Y	4.65	66.98	16.51		130.0	
		Z	4.59	67.47	16.62	-	130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.64	66.58	16.12	0.46	130.0	± 9.6
		Y	4.47	66.00	15.67		130.0	
		T	4,47					

Certificate No: EX3-3938_Oct18

Page 34 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 40 of 44

EX3DV4- SN:3938

October 24, 2018

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.92	66.87	16.71	0.46	130.0	±9.6 %
	17.30.00	Y	4.77	66.38	16.34		130.0	
		Z	4.71	66.82	16.40		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.09	67.22	16.84	0.46	130.0	±9.6 %
		Y	4.93	66.72	16.47	7-	130.0	
-		Z	4.86	67.15	16,53		130.0	-
10593- AAB	IEEE 802,11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.02	67.17	16.74	0.46	130.0	±9,6 %
		Y	4.85	66.64	16.36		130.0	
	A CONTRACTOR OF THE PARTY OF TH	2	4.77	67.04	16.40		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	×	5.07	67.32	16.89	0.46	130.0	± 9;6 %
		Y	4.90	66.80	16.51		130.0	
		Z	4.83	67.23	16.57		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MGS4, 90pc duty cycle)	X	5.05	67.29	16.79	0.46	130.0	± 9.6 %
		Y	4.87	66.75	16.40		130.0	
-		Z	4.80	67.17	16.46		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.98	67.29	16.80	0.46	130.0	± 9.6 %
	mess, oops duly office)	Y	4.81	66.75	16.40		400.0	-
		Z	4.61	67.16	16.45		130.0	
10597-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.94	67.23		0.40	130.0	
AAB	MCS6, 90pc duty cycle)	-	317	110000	16.70	0.46	130.0	±9.6 %
_		Y	4.76	66.66	16.29		130.0	
10598-	DEED OOD 14 AUGUST 1 TO 1	Z	4.68	67.05	16.33		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.92	67.49	16,98	0.46	130.0	± 9.6 %
		Y	4.74	66.90	16.55		130.0	
		Z	4.68	67,34	16.63		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.58	67.43	16.88	0.46	130.0	± 9,6 %
		Y	5.44	66.96	16.56		130.0	
		Z	5.34	67.25	16.55		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.74	67.88	17.07	0.46	130.0	± 9.6 %
		Y	5.60	67.47	16.79		130.0	
		Z	5.43	67.51	16.64		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	5.61	67.61	16.95	0.46	130.0	± 9.6 %
		Y	5.48	67.17	16.66		130.0	
	A STATE OF THE PARTY OF THE PAR	Z	5.35	67.37	16.60		130.0	
10602- AAB	IEEE 802,11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.70	67.58	16.86	0.46	130.0	± 9.6 %
		Y	5.56	67.17	16.58		130.0	
10000	(FFF 000 1 V V V	Z	5.45	67.40	16.52		130.0	7
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.80	67.93	17.16	0.46	130.0	± 9.6 %
		Y	5.65	67.49	16.87		130.0	
10001	lege van	Z	5.52	67.69	16.81		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.58	67.37	16.87	0.46	130.0	± 9.6 %
		Y	5.44	66.92	16.57		130.0	
10005	IFFF 000 41 H/F	Z	5.37	67.27	16.59	17.00	130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.68	67.64	17.00	0.46	130.0	± 9.6 %
		Y	5.56	67.28	16.75		130.0	
10000		Z	5.43	67.44	16.66		130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.46	67.16	16.64	0.46	130.0	± 9.6 %
AAB	MCS7, 90pc duty cycle)							
	MCS7, 90pc duty cycle)	Y	5.33	66.69	16.32		130.0	- Y

Certificate No: EX3-3938_Oct18

Page 35 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 41 of 44

EX3DV4- SN:3938 October 24, 2018

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.76	66.21	16.35	0,46	130.0	± 9.6 %
-		Y	4.60	65.66	15.94		130.0	
		·Z	4.55	66.17	16.05		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.97	66.64	16.51	0.46	130.0	± 9.6 %
	1	Y	4.79	66,07	16.11		130.0	
		Z	4.73	66.56	16.21	-	130.0	
10609- AAB	IEEE 802,11ac WiFi (20MHz, MCS2, 90pc duty cycle)	×	4.86	66.52	16.38	0.46	130.0	±9.6 %
		Y	4.68	65.92	15.94		130,0	
	1	Z	4.62	66.40	16.04	-	130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	×	4.91	66.68	16.54	0.46	130.0	±9.6 %
		Y	4.73	66.08	16.11		130.0	
		Z	4.67	66.58	16.22		130,0	
10611- AAB	IEEE 802,11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.83	66.50	16.39	0.46	130.0	±9.6 %
		Y	4.65	65.89	15.96		130.0	
		Z	4.59	66.36	16.05		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.85	66.66	16.44	0.46	130.0	± 9.6 %
		Y	4.66	66.04	16.00		130.0	
		Z	4.59	66.49	16.08	2	130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	Х	4.86	66.57	16.33	0.46	130.0	± 9.6 %
		Y	4.67	65.94	15.89		130.0	
		Z	4.59	66.36	15.95		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.80	66.77	16.57	0.46	130.0	± 9.6 %
	3000000,0000	Y	4.60	66.11	16.11		130.0	
		Z	4.55	66.63	16.24		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.83	66.31	16.17	0.46	130.0	± 9.6 %
7.0.11.3	sopo daly dyalay	Y	4.65	65.72	15.74		130.0	
		Z	4.57	66.14	15,79		130.0	-
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5,40	66.72	16.51	0.46	130.0	± 9.6 %
		Y	5.25	66.20	16,17		130.0	
		Z	5.18	66.58	16.21		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.46	66.82	16.52	0.46	130.0	± 9.6 %
7 0 10	Solid della Chief	Y	5.32	66,35	16.21		130.0	
		Z	5.23	66.70	16.24		130.0	12.00
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.36	66.91	16.59	0.46	130.0	±9.6 %
		Y	5.20	66.37	16.23		130.0	
		Z	5.13	66.77	16.30		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5,38	66.73	16.44	0,46	130.0	±9.6 %
	7.7	Y	5.23	66.21	16.09		130.0	
		Z	5.14	66.53	16.10		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.49	66.81	16.52	0.46	130.0	± 9.6 %
		Y	5.33	66.26	16.17		130.0	
		Z	5,23	66,56	16.17		130.0	
10621- AAB	IEEE 802,11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.47	66,89	16.68	0.46	130.0	± 9.6 %
		Y	5.31	66.35	16.33		130.0	
		Z	5.24	66.76	16.40		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.47	67.00	16.72	0.46	130.0	±9.6 %
		Y	5.33	66.52	16.41		130.0	
		Z	5.25	66.89	16.45		130.0	

Certificate No: EX3-3938_Oct18

Page 36 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 42 of 44

October 24, 2018

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	×	5.36	66.59	16.41	0.46	130.0	±9.6 %
	HT ACCUSED	Y	5.20	66.04	16.05		130.0	
	Large Large Land Land Land Land Land Land Land Land	Z	5.12	66.39	16.07		130.0	1
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.54	66.74	16.54	0.46	130.0	±9,6 %
	110100	Y	5.40	66.26	16.22		130.0	
		Z	5.31	66.59	16.23		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5,91	67,68	17.05	0.46	130.0	±9,6%
		Y	5.81	67.35	16.82		130.0	
		Z	5.60	67.33	16.65		130.0	1
10626- AAB	IEEE 802.11ac WiFi (B0MHz, MCS0, 90pc duly cycle)	X	5.66	66.76	16.44	0.46	130.0	± 9.6 %
		Y	5.54	66.25	16.12		130.0	
40000	OFFICE AND ALL THE COLUMN	Z	5.47	66.64	16.16		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	×	5.90	67.26	16.64	0.46	130.0	±9.6 %
		Y	5.79	66.84	16.38		130.0	
10000	VEET DOD IN THE WALL	Z	5.67	67.08	16.34		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.73	66.91	16.42	0.46	130.0	±9.6 %
		Y	5.58	66.38	16.08		130.0	
10000		Z	5.49	66.66	16.06		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.81	66.97	16.43	0.46	130.0	±9.6 %
		Y	5.67	66.48	16.13		130.0	
10000	TEET GOO VA - MUTE (PONIN) A 100 C	Z	5.56	66.69	16.07	13.5	130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.26	68.50	17.19	0.46	130.0	±9.6 %
		Y	6.18	68.17	16.96		130.0	
10631-	ICCC OOD AL MURI PRODUCTION	Z	5.83	67.70	16.58	-	130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.19	68.38	17.32	0.46	130.0	±9,6 %
		Y	6.03	67.83	16.99		130.0	
10632-	IEEE 802.11ac WiFi (80MHz, MCS6,	Z	5.86	67.92	16.89		130.0	
AAB	90pc duty cycle)	X	5.89	67.37	16.83	0.46	130.0	± 9.6 %
		Y	5.75	66.88	16.53		130.0	
10633-	VEET OOD AND LAKE MARKET AND ALLERS	Z	5.67	67.23	16.57	1	130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.81	67.14	16.55	0.46	130.0	± 9.6 %
_		Y	5.64	66.53	16.18		130.0	
10634-	IEEE 900 14 - MICE (OOM)	Z	5.57	66.89	16.21		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.79	67.15	16.62	0.46	130.0	± 9.6 %
-		Y	5.63	66.56	16.26		130.0	
10635-	IEEE 802.11ac WiFi (80MHz, MCS9.	Z	5.56	66.95	16.31		130.0	7
AAB	90pc duty cycle)	X	5.68	66.48	16.03	0.46	130.0	±9.6 %
		Y	5.52	65.92	15.67		130.0	
10636-	IEEE 802.11ac WiFi (160MHz, MCS0,	2	5.41	66.16	15.62		130.0	
AAC	90pc duty cycle)	X	6.07	67.13	16.52	0.46	130.0	±9.6 %
		Y	5.95	66.65	16.23		130.0	
10637-	IEEE 802,11ac WiFi (160MHz, MCS1,	Z	5.87	66.97	16.23	01.7	130.0	
AAC	90pc duty cycle)	12	6.23	67.50	16.68	0.46	130.0	±9.6 %
		Y	6.11	67.04	16.40		130.0	
10638-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z	6.00	67.28	16.36		130.0	
AAC	90pc duty cycle)	X	6.23	67.47	16.65	0.46	130.0	± 9.6 %
		Y	6.11	67.00	16.36	1 1	130.0	
		Z	6.01	67.28	16.34		130.0	_

Certificate No: EX3-3938_Oct18

Page 37 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 43 of 44

EX3DV4-SN:3938

October 24, 2018

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6,23	67.49	16.70	0.46	130.0	±9.6 %
		Y	6.09	66.97	16.39		130.0	-
		Z	6.00	67.25	16.37		130.0	
10640- AAC	IEEE 802,11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6,25	67.53	16.67	0.46	130.0	±9.6 %
		Y	6.11	67.01	16.35		130.0	
		Z	5.99	67.21	16.29		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.25	67.31	16.57	0.46	130.0	±9.6 %
		Y	6.13	66.85	16.30		130.0	
		Z	6.03	67.11	16.26		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.33	67,65	16.91	0.46	130.0	±9.6 %
		Y	6.18	67.13	16.60		130.0	
		Z	6.10	67.47	16.62		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.15	67.31	16.65	0.46	130.0	±9.6 %
		Y	6.02	66.82	16.34		130.0	
		Z	5.91	67.06	16.30		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	6.35	67.93	16.98	0.46	130.0	± 9.6 %
1.3	T 7000 / 2000	Υ	6.21	67.40	16.65		130.0	
		Z	6.05	67.49	16.53		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	Х	6.71	68.51	17.21	0.46	130.0	±9.6 %
		Y	6.68	68.36	17.09		130.0	
	The second second second	Z	6.25	67.70	16.59		130.0	
10646- AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	86.17	140.32	45.40	9.30	60.0	± 9.6 %
		Y	39.04	122.44	40.63		60.0	
		Z	18.19	104.43	33.83		60.0	
10647- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	80.45	139.77	45.45	9.30	60.0	± 9.6 9
		Y	36.72	121.94	40.66		60.0	
		Z	16.41	102.98	33.52		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.87	66.51	13.20	0,00	150.0	± 9.6 %
	Low-	Y	0.58	61.72	9,15		150.0	
		Z	0.69	64.69	11.24		150.0	
10652- AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.31	69.00	17.79	2.23	0.08	± 9.6 %
		Y	3.89	67.35	16.71		80.0	
		Z	3.64	67.10	16.29	1.2.2	80.0	
10653- AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.72	67.91	17.64	2.23	80.0	± 9.6 %
		Y	4.40	66.72	16.87		80.0	
	Lancard Control of the	Z	4.16	66.48	16.48	-	80.0	
10654- AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	4.64	67.52	17.60	2.23	80.0	±9.6 %
	1125	Y	4.36	66.39	16.88		80.0	1
		Z	4.14	66.16	16.50		80.0	
10655- AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.69	67.54	17.64	2.23	80.0	± 9.6 %
		Υ	4.42	66:40	16.92		80.0	_
		Z	4.19	66.14	16.53		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	100.00	116.89	30.15	10.00	50.0	±9.69
		Y	27.27	97.34	24.81		50.0	-
		Z	5.41	73.00	14.99	2.54	50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	100.00	114.06	27.78	6.99	60.0	± 9.6 %
		Υ	100.00	111.99	26.70		60.0	1
		Z	5.58	74.98	14.50	-	60.0	

Certificate No: EX3-3938_Oct18

Page 38 of 39

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd.



Rev: 01

Page: 44 of 44

EX3DV4-SN:3938

October 24, 2018

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	113.57	26.20	3.98	80.0	± 9.6 %
		Y	100.00	108.48	23.71		80.0	
		Z	17.55	86.88	16.64		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	116.76	26.28	2.22	100.0	± 9.6 %
		Y	100.00	105.43	21.11	7"	100.0	
		Z	100.00	100.82	18.62		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	127.89	28.96	0.97	120.0	± 9.6 %
		Y	3.43	74.94	10.68		120.0	
		Z	100.00	98.67	16.42		120.0	1
10670- AAA	Bluetooth Low Energy	X	100.00	117.22	26.83	2.19	100.0	± 9.6 %
		Y	100.00	107.88	22.47		100.0	
		Z	100.00	104.58	20.49		100.0	

E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the

Certificate No: EX3-3938_Oct18

Page 39 of 39

- End of report -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. 台灣檢驗科技股份有限公司