

Appendix B - DAE & Probe Calibration Certificate

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




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

Accreditation No.: **SCS 0108**

Client: **SGS-TW (Auden)** Certificate No: **DAE4-1260_Nov18**

CALIBRATION CERTIFICATE

Object: **DAE4 - SD 000 D04 BM - SN: 1260**

Calibration procedure(s): **DA CAL-06 v29
 Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **November 30, 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 last 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&PE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|-------------------------------|--------------------|----------------------------|------------------------|
| Kalibroy Multimeter Type 2001 | SN: 0810276 | 08-Sep-18 (No:23488) | Sep-18 |
| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
| Auto DAE Calibration Unit | SE UWS 053 AA 1001 | 04-Jan-18 (in house check) | In house check: Jan-18 |
| Calibrator Box V2.1 | SE UMS 006 AA 1002 | 04-Jan-18 (in house check) | In house check: Jan-18 |

| Calibrated by: | Name | Function | Signature |
|----------------|-------------------|-----------------------|-----------|
| | Dominique Steffen | Laboratory Technician | |
| Approved by: | Name | Function | Signature |
| | Sven Kühn | Deputy Manager | |

Issued: November 30, 2018

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

Certificate No: DAE4-1260_Nov18

Page 1 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.

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 63, 8004 Zurich, Switzerland



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

Accreditation No.: SCS 0108

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.

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.

DC Voltage Measurement

A/D - Converter Resolution nominal

 High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

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

| Calibration Factors | X | Y | Z |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range | 404.190 \pm 0.02% (k=2) | 404.604 \pm 0.02% (k=2) | 404.798 \pm 0.02% (k=2) |
| Low Range | 3.99161 \pm 1.50% (k=2) | 4.00001 \pm 1.50% (k=2) | 4.00892 \pm 1.50% (k=2) |

Connector Angle

| | |
|---|-------------------------------------|
| Connector Angle to be used in DASY system | 341.5 $^{\circ}$ \pm 1 $^{\circ}$ |
|---|-------------------------------------|

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.

Appendix (Additional assessments outside the scope of SCS0108)
1. DC Voltage Linearity

| High Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 200033.72 | -1.26 | -0.00 |
| Channel X + Input | 20003.07 | -2.10 | -0.01 |
| Channel X - Input | -20003.16 | 2.78 | -0.01 |
| Channel Y + Input | 200038.25 | 3.73 | 0.00 |
| Channel Y + Input | 20002.41 | -2.63 | -0.01 |
| Channel Y - Input | -20008.86 | -0.89 | 0.00 |
| Channel Z + Input | 200033.80 | -1.16 | -0.00 |
| Channel Z + Input | 20001.51 | -3.36 | -0.02 |
| Channel Z - Input | -20006.68 | -0.48 | 0.00 |

| Low Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2001.18 | 0.25 | 0.01 |
| Channel X + Input | 200.87 | -0.09 | -0.04 |
| Channel X - Input | -198.21 | -0.79 | -0.40 |
| Channel Y + Input | 2001.05 | 0.24 | 0.01 |
| Channel Y + Input | 199.97 | -0.89 | -0.44 |
| Channel Y - Input | -199.76 | -0.64 | 0.32 |
| Channel Z + Input | 2000.74 | 0.04 | 0.00 |
| Channel Z + Input | 199.77 | -1.03 | -0.51 |
| Channel Z - Input | -200.48 | -1.28 | 0.64 |

2. Common mode sensitivity

DASYS 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 | -0.90 | -2.92 |
| | -200 | 4.87 | 2.75 |
| Channel Y | 200 | -5.45 | -5.41 |
| | -200 | 4.55 | 4.20 |
| Channel Z | 200 | -16.55 | -16.45 |
| | -200 | 13.88 | 14.44 |

3. Channel separation

DASYS 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 | - | 0.68 | -5.24 |
| Channel Y | 200 | 8.97 | - | 1.84 |
| Channel Z | 200 | 10.48 | 5.66 | - |

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.

4. AD-Converter Values with inputs shorted

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

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16236 | 16097 |
| Channel Y | 15859 | 16057 |
| Channel Z | 16152 | 16351 |

5. Input Offset Measurement

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

Input 10M Ω

| | Average (μ V) | min. Offset (μ V) | max. Offset (μ V) | Std. Deviation (μ V) |
|-----------|--------------------|------------------------|------------------------|---------------------------|
| Channel X | 0.63 | -0.78 | 1.69 | 0.43 |
| Channel Y | 0.10 | -0.90 | 1.53 | 0.41 |
| Channel Z | -1.03 | -2.00 | 0.10 | 0.44 |

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 |

9. 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 | -6 | -9 |

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.

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



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

Accreditation No.: **SCS 0108**

Client: **Auden**

Certificate No.: **DAE4-914_Dec18**

CALIBRATION CERTIFICATE

| | | | |
|---|---|-----------------------------------|---------------------------|
| Object | DAE4 - SD 000 D04 BK - SN: 914 | | |
| Calibration procedure(s) | QA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE) | | |
| Calibration date: | December 11, 2018 | | |
| <p>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 this certificate.</p> <p>All calibrations have been conducted in this closed laboratory facility, environmental temperature (22 ± 3)°C and humidity < 70%.</p> <p>Calibration Equipment used (M&TE critical for calibration):</p> | | | |
| Primary Standards | ID # | Cal. Date (Certificate No.) | Scheduled Calibration |
| Ketley Multimeter Type 2001 | SE 0810278 | 03-Sep-18 (No.23488) | Sep-19 |
| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
| Auto DAE Calibration Unit | SE DWS 053 AA 1001 | 04-Jan-18 (in house check) | In house check: Jan-19 |
| Calibrator Box V2.1 | SE UMS 006 AA 1002 | 04-Jan-18 (in house check) | In house check: Jan-19 |
| Calibrated by: | Name Eric Hairfeld | Function Laboratory Technician | Signature |
| Approved by: | Name Evan Küster | Deputy Manager | Signature |
| | | | Issued: December 11, 2018 |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. | | | |

Certificate No. DAE4-914_Dec18

Page 1 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.

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



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

Accreditation No.: **SCS 0108**

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.

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.

DC Voltage Measurement

A/D - Converter Resolution nominal

 High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

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

| Calibration Factors | X | Y | Z |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range | 405.118 \pm 0.02% (k=2) | 404.309 \pm 0.02% (k=2) | 403.887 \pm 0.02% (k=2) |
| Low Range | 3.99249 \pm 1.50% (k=2) | 3.98909 \pm 1.50% (k=2) | 3.99066 \pm 1.50% (k=2) |

Connector Angle

| | |
|---|------------------------------------|
| Connector Angle to be used in DASY system | 64.0 $^{\circ}$ \pm 1 $^{\circ}$ |
|---|------------------------------------|

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.

Appendix (Additional assessments outside the scope of SCS0108)
1. DC Voltage Linearity

| High Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 19998.58 | 2.11 | 0.00 |
| Channel X + Input | 19998.57 | -2.75 | -0.01 |
| Channel X - Input | -20000.73 | 1.25 | -0.01 |
| Channel Y + Input | 19998.17 | 2.01 | 0.00 |
| Channel Y + Input | 19997.28 | -3.97 | -0.02 |
| Channel Y - Input | -20001.99 | -0.10 | 0.00 |
| Channel Z + Input | 19997.18 | 0.68 | 0.00 |
| Channel Z + Input | 19998.61 | -2.66 | -0.01 |
| Channel Z - Input | -20002.03 | -0.10 | 0.00 |

| Low Range | Reading (μV) | Difference (μV) | Error (%) |
|-------------------|---------------------------|------------------------------|-----------|
| Channel X + Input | 2001.17 | 0.30 | 0.02 |
| Channel X + Input | 200.57 | -0.58 | -0.29 |
| Channel X - Input | -199.13 | -0.34 | 0.17 |
| Channel Y + Input | 2000.87 | -0.05 | -0.00 |
| Channel Y + Input | 200.49 | -0.62 | -0.31 |
| Channel Y - Input | -199.14 | -0.42 | 0.21 |
| Channel Z + Input | 2000.66 | -0.18 | -0.01 |
| Channel Z + Input | 200.17 | -0.94 | -0.47 |
| Channel Z - Input | -200.12 | -1.35 | 0.68 |

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 | -12.83 | -14.43 |
| | -200 | 15.19 | 13.34 |
| Channel Y | 200 | -5.26 | -5.22 |
| | -200 | 4.18 | 4.10 |
| Channel Z | 200 | 5.91 | 5.36 |
| | -200 | -7.27 | -7.63 |

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 | - | 3.18 | -4.63 |
| Channel Y | 200 | 7.77 | - | 2.34 |
| Channel Z | 200 | 9.02 | 5.71 | - |

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.

4. AD-Converter Values with inputs shorted

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

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16113 | 12727 |
| Channel Y | 16145 | 15429 |
| Channel Z | 16017 | 14873 |

5. Input Offset Measurement

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

Input 10MΩ

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.17 | -0.89 | 1.03 | 0.39 |
| Channel Y | 1.31 | -0.62 | 2.92 | 0.71 |
| Channel Z | 0.01 | -1.10 | 1.53 | 0.60 |

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 |

9. 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 |

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.

**Calibration Laboratory of
 Schmid & Partner
 Engineering AG**
 Zeughausstrasse 43, 8904 Zurich, Switzerland



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

Accreditation No.: **SCS 0108**

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&E 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-ZB1 | 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. 217-02687) | Apr-19 |
| Reference Probe G332v2 | SN: 3013 | 30-Dec-17 (No. ES3-3013 Dec17) | Dec-18 |
| DAE4 | SN: 860 | 21-Dec-17 (No. SAS4-060 Dec17) | Dec-18 |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: G941291874 | 05-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: MY41499087 | 05-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: Q001100210 | 05-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HF 8648C | SN: US3842U01700 | 04-Aug-09 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8369A | SN: US41080477 | 31-Mar-14 (in house check Oct-18) | In house check: Oct-18 |

Calibrated by: **Name: Jason Kasrati, Function: Laboratory Technician, Signature: [Signature]**

Approved by: **Name: Kimo Fouyok, Function: Technical Manager, Signature: [Signature]**

Issued: **October 24, 2018**

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 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.

Calibration Laboratory of
 Schmid & Partner
 Engineering AG
 Zeughausstrasse 43, 8064 Zurich, Switzerland



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

Accreditation No.: **SCS 0108**

Glossary:

| | |
|------------------------|---|
| TSL | tissue simulating liquid |
| NORM _{x,y,z} | sensitivity in free space |
| CorvF | sensitivity in TSL / NORM _{x,y,z} |
| DCP | diode compression point |
| CF | crest factor (1/duty cycle) of the RF signal |
| A, B, C, D | modulation dependent linearization parameters |
| Polarization φ | α rotation around probe axis |
| Polarization β | β rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\beta = 0$ is normal to probe axis |
| Connector Angle | information used in DASY system to align probe sensor K to the robot coordinate system |

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) 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:

- **NORM_{x,y,z}**: Assessed for E-field polarization $\beta = 0$ ($f \leq 300$ MHz in TEM-cell; $f > 1600$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below CorvF).
- **NORM_{x,y,z} = NORM_{x,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 CorvF.
- **DCP_{x,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 characteristics.
- **A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,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.
- **CorvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \geq 800$ 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 NORM_{x,y,z} * CorvF whereby the uncertainty corresponds to that given for CorvF. A frequency dependant CorvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- **Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **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 NORM_x (no uncertainty required).

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.

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.: E5103008_00010

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.

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 (uV/(V/m) ²) ^A | 0.51 | 0.57 | 0.33 | ± 10.1 % |
| DCP (mV) ^B | 103.2 | 100.2 | 107.6 | |

Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB V _μ V | C | D dB | VR mV | Unc ^C (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 | a V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | T6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|-------|
| X | 59.09 | 438.9 | 35.15 | 28.09 | 1.205 | 6.10 | 1.012 | 0.575 | 1.008 |
| Y | 53.22 | 408.3 | 37.24 | 24.25 | 1.457 | 5.10 | 0.000 | 0.765 | 1.013 |
| Z | 46.65 | 332.5 | 32.92 | 15.26 | 1.153 | 4.86 | 2.000 | 0.225 | 1.005 |

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%.

^AThe uncertainties of Norm X,Y,Z do not affect the E₁ test uncertainty (see Page 5 and 6)

^BNominal frequency parameter; uncertainty not required.

^CUncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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.

EX3DV4-SN3938

October 24, 2018

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

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^a | Relative Permittivity ^b | Conductivity (S/m) ^b | ConvF X | ConvF Y | ConvF Z | Alpha ^c | Depth (mm) ^d | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750 | 41.3 | 0.89 | 9.62 | 9.62 | 9.62 | 0.45 | 0.80 | ± 12.0 % |
| 635 | 41.5 | 0.90 | 9.50 | 9.50 | 9.50 | 0.50 | 0.85 | ± 12.0 % |
| 600 | 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 | 0.80 | ± 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 | 0.35 | 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 % |
| 2800 | 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 | 1.90 | ± 13.1 % |

^a Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). Use 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, 60 and 70 MHz for ConvF assessments at 30, 64, 120, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^b At frequencies below 3 GHz, the validity of tissue parameters (ρ 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 (ρ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^c Alpha/Depth are determined during calibration. SPEAG warns from the sampling 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 antenna diameter from the boundary.

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.

EX3DV4- SN:3938

October 24, 2016

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

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^D | Relative Permittivity ^E | Conductivity (S/m) ^F | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth (mm) ^H | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750 | 56.5 | 0.96 | 9.72 | 9.72 | 9.72 | 0.46 | 0.87 | ± 12.0 % |
| 938 | 55.2 | 0.97 | 9.56 | 9.56 | 9.56 | 0.41 | 0.82 | ± 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 | 0.26 | 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 % |
| 5800 | 48.5 | 5.77 | 3.77 | 3.77 | 3.77 | 0.50 | 1.90 | ± 13.1 % |
| 6800 | 48.2 | 6.00 | 4.00 | 4.00 | 4.00 | 0.50 | 1.90 | ± 13.1 % |

^D 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, 80 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 0.5GHz frequency validity can be extended to ± 110 MHz.
^E At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if equal compensation layout 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.
^F 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 diameter from the boundary.

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.

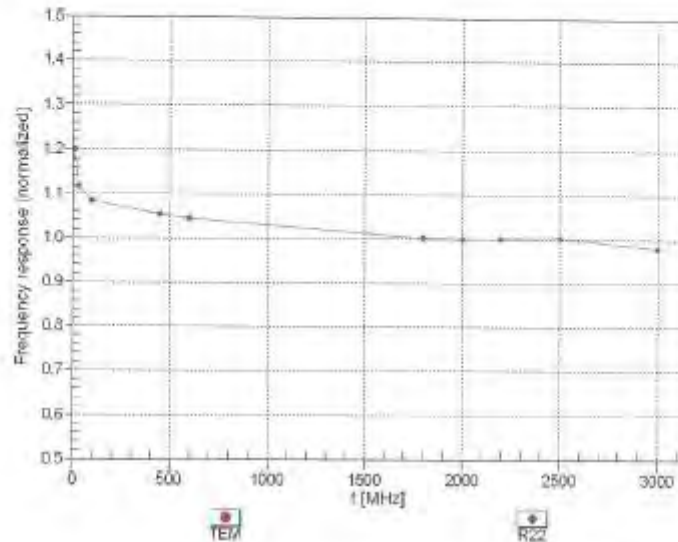
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4-SN:3938

October 24, 2018

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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.

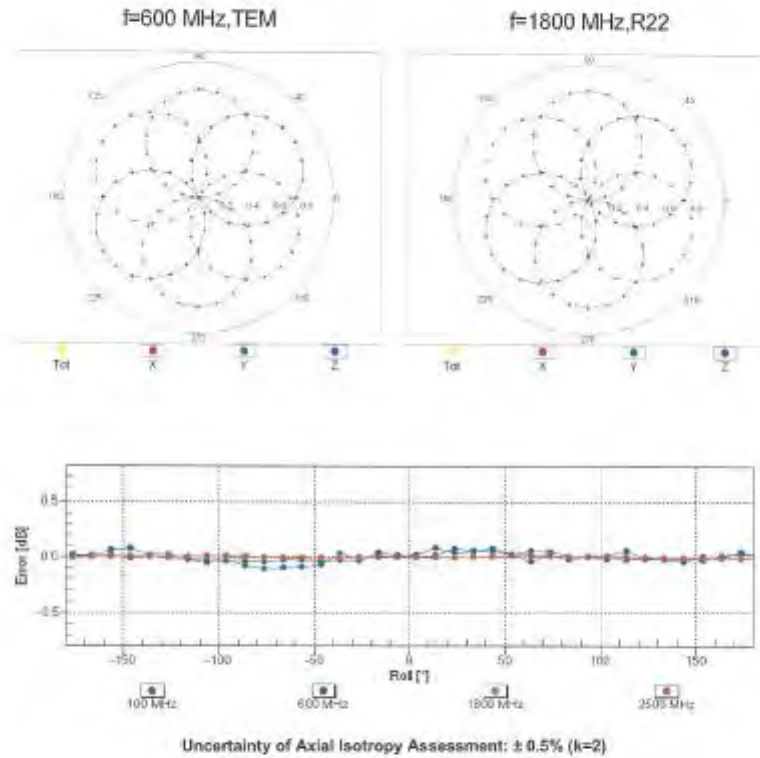
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4-SN:3938

October 24, 2018

Receiving Pattern (ϕ), $\theta = 0^\circ$



Certificate No: EX3-3938_Oct18

Page 8 of 38

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.

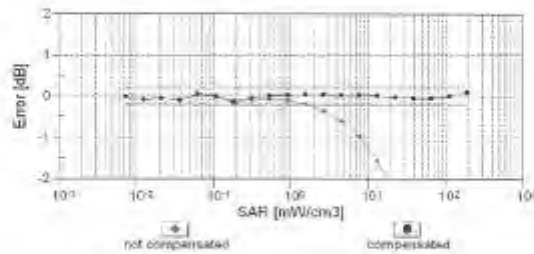
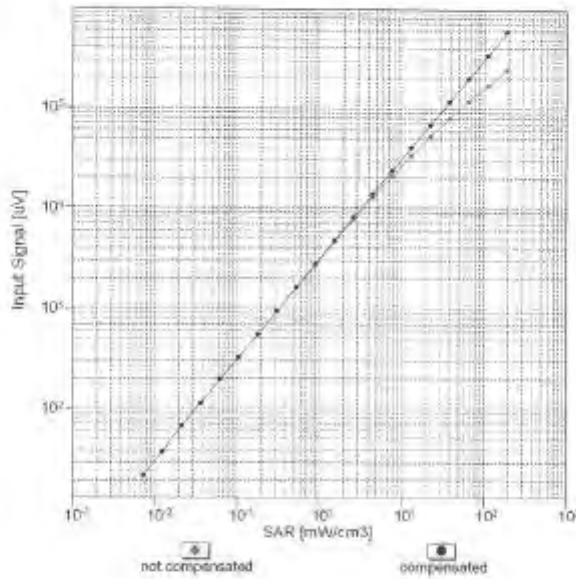
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4- SN.3938

October 24, 2018

Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



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

Certificate No: EX3-3038_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.

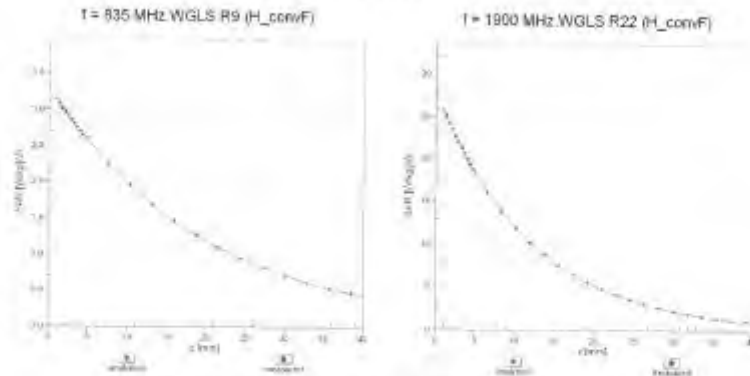
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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.

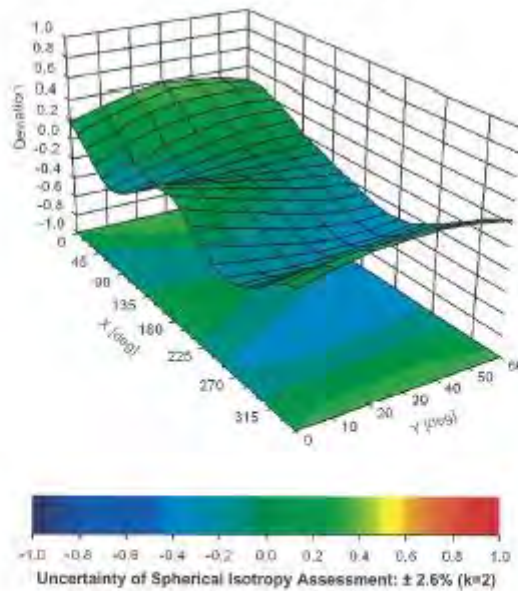
EX3DV4- SN:3938

October 24, 2018

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ , θ), $f = 900$ MHz



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 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.

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.

EXQDV4-SN:3936

October 24, 2018

Appendix: Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB/μV | C | D dB | VR mV | Max Unc ² (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) | X | 11.84 | 84.28 | 10.03 | 10.00 | 20.0 | ± 9.6 % |
| | | Y | 4.75 | 72.52 | 14.55 | | 20.0 | |
| | | Z | 2.70 | 85.86 | 10.62 | | 20.0 | |
| 10011- CAB | UMTS-FDD (WCDMA) | X | 1.25 | 71.04 | 17.46 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.67 | 85.19 | 13.50 | | 150.0 | |
| | | Z | 1.10 | 89.84 | 16.56 | | 150.0 | |
| 10012- CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | X | 1.29 | 85.77 | 16.62 | 0.41 | 150.0 | ± 9.6 % |
| | | Y | 1.13 | 83.67 | 14.74 | | 150.0 | |
| | | Z | 1.17 | 84.77 | 15.66 | | 150.0 | |
| 10013- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM) 6 Mbps) | X | 5.08 | 87.01 | 17.40 | 1.46 | 150.0 | ± 9.6 % |
| | | Y | 4.93 | 86.63 | 17.09 | | 150.0 | |
| | | Z | 4.79 | 86.72 | 16.84 | | 150.0 | |
| 10021- DAC | GSM-FDD (TDMA, GMSK) | X | 100.00 | 118.51 | 30.68 | 9.39 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 117.47 | 30.14 | | 50.0 | |
| | | Z | 9.68 | 81.69 | 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 | |
| | | Z | 8.28 | 79.66 | 17.55 | | 50.0 | |
| 10024- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | X | 100.00 | 116.27 | 28.62 | 6.58 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 113.88 | 27.30 | | 60.0 | |
| | | Z | 17.56 | 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 | 6.89 | 80.09 | 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 | 118.31 | 40.38 | 9.56 | 60.0 | ± 9.6 % |
| | | Y | 17.18 | 103.12 | 35.82 | | 60.0 | |
| | | Z | 10.76 | 82.22 | 31.22 | | 60.0 | |
| 10027- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | X | 100.00 | 116.29 | 27.82 | 4.80 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 112.20 | 25.60 | | 80.0 | |
| | | 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 | 27.55 | 3.65 | 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) | X | 14.44 | 99.44 | 33.73 | 7.80 | 60.0 | ± 9.6 % |
| | | Y | 10.38 | 81.48 | 30.82 | | 60.0 | |
| | | Z | 6.98 | 83.31 | 26.80 | | 60.0 | |
| 10030- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | X | 100.00 | 115.12 | 27.62 | 5.30 | 70.0 | ± 9.6 % |
| | | Y | 100.00 | 111.80 | 26.90 | | 70.0 | |
| | | Z | 13.15 | 85.06 | 17.21 | | 70.0 | |
| 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 | 105.88 | 20.55 | | 100.0 | |
| | | Z | 100.00 | 102.30 | 18.90 | | 100.0 | |

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.

EX30V4-SN3938

October 24, 2019

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|-------|-------|-------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | X | 100.00 | 129.17 | 29.05 | 1.17 | 100.0 | ±9.6% |
| | | Y | 100.00 | 101.34 | 19.13 | | 100.0 | |
| | | Z | 100.00 | 104.25 | 18.92 | | 100.0 | |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH1) | X | 100.00 | 128.01 | 35.11 | 5.30 | 70.0 | ±9.6% |
| | | Y | 30.28 | 106.06 | 28.70 | | 70.0 | |
| | | Z | 7.05 | 82.85 | 20.36 | | 70.0 | |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH3) | X | 31.52 | 111.52 | 29.81 | 1.88 | 100.0 | ±9.6% |
| | | Y | 4.84 | 81.70 | 19.61 | | 100.0 | |
| | | Z | 3.36 | 77.14 | 17.43 | | 100.0 | |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH5) | X | 8.76 | 93.74 | 24.54 | 1.17 | 100.0 | ±9.6% |
| | | Y | 2.58 | 74.38 | 16.61 | | 100.0 | |
| | | Z | 2.45 | 74.78 | 16.51 | | 100.0 | |
| 10036-CAA | IEEE 802.15.1 Bluetooth (B-DPSK, DH1) | X | 100.00 | 128.33 | 35.27 | 5.30 | 70.0 | ±9.6% |
| | | Y | 48.56 | 114.02 | 30.85 | | 70.0 | |
| | | Z | 8.61 | 85.86 | 21.44 | | 70.0 | |
| 10037-CAA | IEEE 802.15.1 Bluetooth (B-DPSK, DH3) | X | 28.47 | 108.85 | 29.14 | 1.88 | 100.0 | ±9.6% |
| | | Y | 1.63 | 80.88 | 18.28 | | 100.0 | |
| | | Z | 3.19 | 76.20 | 17.05 | | 100.0 | |
| 10038-CAA | IEEE 802.15.1 Bluetooth (B-DPSK, DH5) | X | 5.40 | 95.18 | 25.08 | 1.17 | 100.0 | ±9.6% |
| | | Y | 2.50 | 74.97 | 18.94 | | 100.0 | |
| | | Z | 2.82 | 75.36 | 18.85 | | 100.0 | |
| 10039-CAE | CDMA2000 (1XRTT, RC1) | X | 2.91 | 78.68 | 19.30 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.40 | 67.84 | 13.51 | | 150.0 | |
| | | Z | 2.98 | 79.60 | 18.61 | | 150.0 | |
| 10042-CAE | IS-64 / IS-136 FDD (TDMA/FDM, PI4-DQPSK, Halfrate) | X | 100.00 | 114.29 | 27.89 | 7.78 | 50.0 | ±9.6% |
| | | Y | 100.00 | 112.24 | 26.83 | | 50.0 | |
| | | Z | 7.08 | 77.79 | 15.66 | | 50.0 | |
| 10044-CAA | IS-81/EIA/TIA-553 FDD (FDMA, FSI) | X | 0.00 | 111.10 | 2.93 | 0.00 | 150.0 | ±9.6% |
| | | Y | 0.12 | 121.97 | 13.25 | | 150.0 | |
| | | Z | 0.02 | 124.98 | 11.44 | | 150.0 | |
| 10045-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 2A) | X | 100.00 | 130.31 | 32.96 | 13.80 | 25.0 | ±9.6% |
| | | Y | 26.80 | 98.60 | 27.12 | | 25.0 | |
| | | Z | 6.15 | 73.04 | 16.88 | | 25.0 | |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | X | 100.00 | 118.79 | 31.59 | 16.75 | 40.0 | ±9.6% |
| | | Y | 42.73 | 105.35 | 27.59 | | 40.0 | |
| | | Z | 5.52 | 75.70 | 18.44 | | 40.0 | |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | X | 50.92 | 115.40 | 32.89 | 9.03 | 50.0 | ±9.6% |
| | | Y | 20.21 | 96.61 | 26.81 | | 50.0 | |
| | | Z | 6.73 | 81.48 | 20.30 | | 50.0 | |
| 10056-BAC | EDGE-FDD (TDMA, 8PSK, TR 0-1-2-3) | X | 9.49 | 90.34 | 29.75 | 6.55 | 100.0 | ±9.6% |
| | | Y | 7.41 | 84.68 | 27.34 | | 100.0 | |
| | | Z | 5.31 | 78.46 | 24.34 | | 100.0 | |
| 10059-CAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | X | 1.45 | 88.15 | 17.83 | 0.81 | 110.0 | ±9.6% |
| | | Y | 1.24 | 85.28 | 15.64 | | 110.0 | |
| | | Z | 1.24 | 86.09 | 16.24 | | 110.0 | |
| 10060-CAE | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | X | 100.00 | 135.52 | 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.

EX3DV4-SV-3938

October 24, 2018

| | | | | | | | | | |
|-----------|--|---|-------|--------|-------|-------|-------|--------|--|
| 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% | |
| | | | Y | 7.04 | 93.70 | 25.29 | | 110.0 | |
| | | | Z | 3.71 | 82.93 | 21.92 | | 110.0 | |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | X | 4.83 | 86.83 | 15.78 | 0.49 | 100.0 | ±9.6% | |
| | | | Y | 4.88 | 86.44 | 16.40 | | 100.0 | |
| | | | Z | 4.81 | 88.82 | 16.41 | | 100.0 | |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | X | 4.96 | 87.07 | 16.41 | 0.72 | 100.0 | ±9.6% | |
| | | | Y | 4.71 | 86.58 | 16.52 | | 100.0 | |
| | | | Z | 4.82 | 86.89 | 16.47 | | 100.0 | |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | X | 5.18 | 87.38 | 17.15 | 0.86 | 100.0 | ±9.6% | |
| | | | Y | 5.02 | 86.91 | 16.79 | | 100.0 | |
| | | | Z | 4.80 | 87.10 | 16.66 | | 100.0 | |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | X | 5.07 | 87.37 | 17.30 | 1.21 | 100.0 | ±9.6% | |
| | | | Y | 4.91 | 86.89 | 16.94 | | 100.0 | |
| | | | Z | 4.77 | 86.98 | 16.73 | | 100.0 | |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | X | 5.11 | 87.44 | 17.51 | 1.46 | 100.0 | ±9.6% | |
| | | | Y | 4.95 | 86.98 | 17.15 | | 100.0 | |
| | | | Z | 4.78 | 86.99 | 16.85 | | 100.0 | |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | X | 5.40 | 87.52 | 17.91 | 2.04 | 100.0 | ±9.6% | |
| | | | Y | 5.26 | 87.17 | 17.62 | | 100.0 | |
| | | | Z | 5.06 | 87.09 | 17.23 | | 100.0 | |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | X | 5.51 | 87.80 | 18.25 | 2.55 | 100.0 | ±9.6% | |
| | | | Y | 5.36 | 87.40 | 17.94 | | 100.0 | |
| | | | Z | 5.11 | 87.14 | 17.41 | | 100.0 | |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | X | 5.58 | 87.89 | 18.40 | 2.67 | 100.0 | ±9.6% | |
| | | | Y | 5.44 | 87.37 | 18.13 | | 100.0 | |
| | | | Z | 5.19 | 87.11 | 17.58 | | 100.0 | |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | X | 5.17 | 87.17 | 17.15 | 1.99 | 100.0 | ±9.6% | |
| | | | Y | 5.05 | 86.81 | 17.46 | | 100.0 | |
| | | | Z | 4.86 | 86.78 | 17.09 | | 100.0 | |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.21 | 87.68 | 18.06 | 2.30 | 100.0 | ±9.6% | |
| | | | Y | 5.08 | 87.27 | 17.74 | | 100.0 | |
| | | | Z | 4.87 | 87.11 | 17.28 | | 100.0 | |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.30 | 87.82 | 18.44 | 2.63 | 100.0 | ±9.6% | |
| | | | Y | 5.18 | 87.55 | 18.13 | | 100.0 | |
| | | | Z | 4.94 | 87.26 | 17.56 | | 100.0 | |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.29 | 87.90 | 18.65 | 3.30 | 100.0 | ±9.6% | |
| | | | Y | 5.18 | 87.54 | 18.34 | | 100.0 | |
| | | | Z | 4.93 | 87.18 | 17.70 | | 100.0 | |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.40 | 88.29 | 19.10 | 3.82 | 90.0 | ±16.6% | |
| | | | Y | 5.28 | 87.86 | 18.77 | | 90.0 | |
| | | | Z | 4.98 | 87.33 | 17.99 | | 90.0 | |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.38 | 87.97 | 19.17 | 4.15 | 90.0 | ±16.6% | |
| | | | Y | 5.29 | 87.84 | 18.88 | | 90.0 | |
| | | | Z | 5.00 | 87.13 | 18.10 | | 90.0 | |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.41 | 88.03 | 19.26 | 4.30 | 90.0 | ±16.6% | |
| | | | Y | 5.32 | 87.72 | 18.98 | | 90.0 | |
| | | | Z | 5.03 | 87.21 | 18.19 | | 90.0 | |

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.

EK30M-SN 3938

October 24, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (TMR11, RC3) | X | 1.20 | 70.84 | 15.87 | 0.00 | 150.0 | ± 8.6 % |
| | | 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, P4-QPSK, Fullrate) | X | 1.35 | 61.90 | 8.54 | 4.77 | 80.0 | ± 9.6 % |
| | | Y | 1.15 | 60.19 | 5.86 | | 80.0 | |
| | | Z | 0.90 | 60.00 | 4.62 | | 80.0 | |
| 10089-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | X | 100.00 | 116.34 | 28.67 | 6.26 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 113.88 | 27.45 | | 60.0 | |
| | | Z | 16.90 | 68.08 | 19.81 | | 60.0 | |
| 10097-CAB | UMTS-FDD (HSDPA) | X | 1.98 | 69.10 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.98 | 66.14 | 14.64 | | 150.0 | |
| | | Z | 1.92 | 69.38 | 16.52 | | 150.0 | |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2) | X | 1.94 | 69.09 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.62 | 66.08 | 14.59 | | 150.0 | |
| | | Z | 1.57 | 69.33 | 16.49 | | 150.0 | |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | X | 28.67 | 116.31 | 40.37 | 9.56 | 80.0 | ± 9.6 % |
| | | Y | 17.22 | 103.14 | 35.83 | | 80.0 | |
| | | Z | 10.80 | 92.24 | 31.22 | | 80.0 | |
| 10100-CAB | 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 | | 150.0 | |
| 10101-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 3.42 | 69.37 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.15 | 66.86 | 15.45 | | 150.0 | |
| | | Z | 3.25 | 68.19 | 16.19 | | 150.0 | |
| 10102-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 3.51 | 65.25 | 16.50 | 0.00 | 100.0 | ± 9.6 % |
| | | Y | 3.25 | 66.87 | 15.57 | | 100.0 | |
| | | Z | 3.35 | 68.16 | 16.29 | | 100.0 | |
| 10103-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 9.10 | 80.51 | 22.32 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.71 | 77.80 | 21.05 | | 65.0 | |
| | | Z | 6.72 | 75.86 | 19.85 | | 65.0 | |
| 10104-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 8.26 | 77.67 | 22.08 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.55 | 75.78 | 21.18 | | 65.0 | |
| | | Z | 6.54 | 73.78 | 19.84 | | 65.0 | |
| 10105-CAB | 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 | 74.26 | 20.84 | | 65.0 | |
| | | Z | 6.41 | 73.55 | 19.98 | | 65.0 | |
| 10108-CAB | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 3.07 | 71.32 | 17.44 | 0.00 | 180.0 | ± 9.6 % |
| | | Y | 2.58 | 68.37 | 15.67 | | 150.0 | |
| | | Z | 2.85 | 71.00 | 17.15 | | 150.0 | |
| 10109-CAB | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 3.03 | 68.24 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.80 | 66.84 | 15.30 | | 150.0 | |
| | | Z | 2.92 | 68.15 | 16.17 | | 150.0 | |
| 10110-CAB | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X | 3.51 | 70.39 | 17.16 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.08 | 67.38 | 16.21 | | 150.0 | |
| | | Z | 2.30 | 70.10 | 16.80 | | 150.0 | |
| 10111-CAB | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 2.83 | 65.15 | 16.80 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.43 | 67.13 | 15.44 | | 180.0 | |
| | | Z | 2.71 | 68.56 | 16.76 | | 150.0 | |

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 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.

EX30V4- GN-3938

October 24, 2018

| | | | | | | | | |
|---------------|--|---|------|-------|-------|------|-------|-------|
| 10113- CAG | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X | 1.20 | 68.13 | 16.43 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.93 | 66.65 | 15.39 | | 150.0 | |
| | | Z | 3.04 | 68.13 | 16.21 | | 150.0 | |
| 10113- CAG | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | X | 2.88 | 69.16 | 16.98 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.94 | 67.31 | 15.61 | | 150.0 | |
| | | Z | 2.97 | 69.66 | 16.67 | | 150.0 | |
| 10114- CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | X | 5.21 | 67.32 | 16.54 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.08 | 66.65 | 16.21 | | 150.0 | |
| | | Z | 5.06 | 67.43 | 16.43 | | 150.0 | |
| 10115- CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | X | 5.96 | 67.60 | 16.68 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.42 | 67.13 | 16.37 | | 150.0 | |
| | | Z | 5.34 | 67.52 | 16.46 | | 150.0 | |
| 10116- CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.33 | 67.55 | 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 | 5.83 | 67.75 | 16.76 | 0.00 | 150.0 | ±9.6% |
| | | 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 | 5.20 | 67.52 | 16.58 | 0.00 | 150.0 | ±9.6% |
| | | 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% |
| | | 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) | X | 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) | X | 2.31 | 70.61 | 17.10 | 0.00 | 150.0 | ±9.6% |
| | | 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% |
| | | Y | 2.31 | 67.48 | 15.00 | | 150.0 | |
| | | Z | 2.68 | 70.99 | 16.78 | | 150.0 | |
| 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 | 65.89 | 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 | 68.60 | 15.10 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.11 | 63.66 | 10.30 | | 150.0 | |
| | | Z | 1.33 | 67.06 | 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 | 2.48 | 66.71 | 13.45 | | 150.0 | |
| | | Z | 2.36 | 66.35 | 12.25 | | 150.0 | |
| 10147- CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 6.45 | 61.90 | 19.47 | 0.00 | 150.0 | ±9.6% |
| | | Y | 3.10 | 71.79 | 14.87 | | 150.0 | |
| | | Z | 3.29 | 72.21 | 14.01 | | 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.

EX10V4-SN 3908

October 24, 2018

| | | | | | | | | |
|-----------|--|---|-------|-------|-------|------|-------|---------|
| 10148-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | X | 3.10 | 68.31 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.81 | 66.69 | 15.35 | | 150.0 | |
| | | Z | 2.83 | 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 | 6.42 | 80.52 | 22.26 | | 65.0 | |
| | | Z | 6.80 | 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 | 20.98 | | 65.0 | |
| | | Z | 8.04 | 75.08 | 19.44 | | 65.0 | |
| 10153-CAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | X | 8.44 | 79.82 | 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-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 2.63 | 69.15 | 16.90 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.49 | 67.14 | 15.45 | | 150.0 | |
| | | Z | 2.71 | 69.67 | 16.78 | | 150.0 | |
| 10158-CAE | 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 | 14.48 | | 150.0 | |
| | | Z | 2.01 | 71.01 | 16.66 | | 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 | 1.96 | 65.89 | 13.48 | | 150.0 | |
| | | Z | 2.19 | 68.70 | 14.94 | | 150.0 | |
| 10159-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 | 16.83 | | 150.0 | |
| 10156-CAG | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 2.54 | 69.44 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.05 | 66.31 | 13.77 | | 150.0 | |
| | | 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 | 16.87 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.62 | 67.67 | 15.60 | | 150.0 | |
| | | Z | 2.75 | 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 % |
| | | Y | 2.80 | 66.60 | 15.34 | | 150.0 | |
| | | Z | 2.95 | 68.19 | 16.20 | | 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 | 15.45 | | 150.0 | |
| | | Z | 3.08 | 68.32 | 16.32 | | 150.0 | |
| 10180-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 4.07 | 71.03 | 19.21 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.79 | 69.95 | 18.36 | | 150.0 | |
| | | Z | 3.80 | 71.36 | 19.76 | | 150.0 | |
| 10187-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 5.42 | 74.60 | 20.87 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.77 | 72.79 | 19.75 | | 150.0 | |
| | | Z | 5.29 | 76.01 | 20.77 | | 150.0 | |

Certificate No. EX3-3938_0ct18

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.

EX3DV4- SN:3935

October 29, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|------|-------|-------|
| 10108-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.05 | 77.17 | 21.96 | 3.01 | 150.0 | ±9.6% |
| | | Y | 5.30 | 75.09 | 21.09 | | 150.0 | |
| | | Z | 6.36 | 79.86 | 22.71 | | 150.0 | |
| 10109-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X | 3.85 | 72.93 | 20.70 | 3.01 | 150.0 | ±9.6% |
| | | Y | 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 | 78.10 | 21.63 | | 150.0 | |
| | | Z | 7.61 | 85.04 | 24.72 | | 150.0 | |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 4.87 | 75.75 | 20.53 | 3.01 | 150.0 | ±9.6% |
| | | Y | 3.67 | 71.72 | 18.83 | | 150.0 | |
| | | Z | 4.54 | 76.13 | 20.23 | | 150.0 | |
| 10172-CAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X | 80.41 | 131.60 | 39.78 | 8.02 | 65.0 | ±9.6% |
| | | Y | 18.51 | 103.16 | 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 | 8.02 | 65.0 | ±9.6% |
| | | Y | 30.31 | 107.15 | 31.45 | | 65.0 | |
| | | Z | 25.08 | 102.02 | 28.13 | | 65.0 | |
| 10174-CAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 80.73 | 116.52 | 33.35 | 8.02 | 65.0 | ±9.6% |
| | | Y | 21.73 | 99.84 | 28.60 | | 65.0 | |
| | | Z | 17.06 | 94.57 | 25.40 | | 65.0 | |
| 10175-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 3.78 | 72.50 | 20.41 | 3.01 | 150.0 | ±9.6% |
| | | Y | 3.29 | 69.80 | 19.15 | | 150.0 | |
| | | Z | 3.40 | 71.88 | 19.88 | | 150.0 | |
| 10176-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | X | 6.36 | 81.51 | 23.73 | 3.01 | 150.0 | ±9.6% |
| | | Y | 4.75 | 78.12 | 21.65 | | 150.0 | |
| | | Z | 7.63 | 85.06 | 24.74 | | 150.0 | |
| 10177-CA | 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, 6 MHz, 16-QAM) | X | 6.29 | 81.12 | 23.56 | 3.01 | 150.0 | ±9.6% |
| | | Y | 4.70 | 75.85 | 21.51 | | 150.0 | |
| | | Z | 8.85 | 84.54 | 24.51 | | 150.0 | |
| 10179-CAG | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | X | 5.53 | 78.33 | 21.06 | 3.01 | 150.0 | ±9.6% |
| | | Y | 4.26 | 75.73 | 20.06 | | 150.0 | |
| | | Z | 5.63 | 80.03 | 22.20 | | 150.0 | |
| 10180-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | X | 4.85 | 75.83 | 20.46 | 3.01 | 150.0 | ±9.6% |
| | | Y | 3.85 | 71.83 | 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 | 72.55 | 20.52 | 3.01 | 150.0 | ±9.6% |
| | | Y | 3.31 | 69.95 | 19.24 | | 150.0 | |
| | | Z | 3.44 | 72.20 | 20.01 | | 150.0 | |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 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 | |
| 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 | 71.51 | 18.77 | | 150.0 | |
| | | Z | 4.50 | 75.94 | 20.13 | | 150.0 | |

Certificate No: EX3-3935_Oct18

Page 16 of 30

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.

EX30V4-SN.3938

October 24, 2018

| | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | X | 3.23 | 72.74 | 20.54 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.32 | 70.00 | 19.27 | | 150.0 | |
| | | Z | 3.45 | 72.26 | 20.04 | | 150.0 | |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | X | 6.29 | 81.18 | 23.59 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.72 | 75.91 | 21.53 | | 150.0 | |
| | | Z | 6.86 | 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 | 71.65 | 18.80 | | 150.0 | |
| | | Z | 4.53 | 76.04 | 20.17 | | 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 | 4.85 | 76.83 | 21.93 | | 150.0 | |
| | | Z | 7.44 | 86.27 | 25.23 | | 150.0 | |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | X | 5.01 | 76.28 | 20.81 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.96 | 72.12 | 19.08 | | 150.0 | |
| | | Z | 4.72 | 76.84 | 20.90 | | 150.0 | |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | X | 4.64 | 83.78 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.48 | 85.22 | 15.91 | | 150.0 | |
| | | Z | 4.48 | 83.93 | 15.19 | | 150.0 | |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 30 Mbps, 16-QAM) | X | 4.54 | 87.15 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.66 | 86.55 | 16.03 | | 150.0 | |
| | | Z | 4.65 | 87.23 | 16.31 | | 150.0 | |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 85 Mbps, 64-QAM) | X | 4.88 | 87.16 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.70 | 86.58 | 15.95 | | 150.0 | |
| | | Z | 4.69 | 87.26 | 16.32 | | 150.0 | |
| 10190-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | X | 4.66 | 88.88 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.49 | 88.29 | 15.93 | | 150.0 | |
| | | Z | 4.46 | 88.88 | 16.21 | | 150.0 | |
| 10197-CAC | IEEE 802.11n (HT Mixed, 30 Mbps, 16-QAM) | X | 4.85 | 87.17 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.67 | 86.58 | 16.04 | | 150.0 | |
| | | Z | 4.66 | 87.25 | 16.32 | | 150.0 | |
| 10198-CAC | IEEE 802.11n (HT Mixed, 85 Mbps, 64-QAM) | X | 4.88 | 87.18 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.70 | 86.60 | 16.06 | | 150.0 | |
| | | Z | 4.69 | 87.27 | 16.33 | | 150.0 | |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | X | 4.61 | 88.60 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.43 | 88.30 | 15.89 | | 150.0 | |
| | | Z | 4.43 | 87.01 | 16.10 | | 150.0 | |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | X | 4.85 | 87.15 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.67 | 86.58 | 16.04 | | 150.0 | |
| | | Z | 4.66 | 87.22 | 16.31 | | 150.0 | |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | X | 4.88 | 87.10 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.71 | 86.53 | 16.00 | | 150.0 | |
| | | Z | 4.70 | 87.20 | 16.31 | | 150.0 | |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | X | 5.19 | 87.35 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.03 | 86.77 | 16.18 | | 150.0 | |
| | | Z | 5.01 | 87.33 | 16.39 | | 150.0 | |

Certificate No: EX3-3938_Oct18

Page 19 of 30

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.

EX3094- SN3938

October 24, 2018

| | | | | | | | | | |
|---------------|---|---|--------|--------|--------|-------|-------|-------|--|
| 10223- CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | X | 5.54 | 67.81 | 16.71 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 5.35 | 68.99 | 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 | 67.48 | 16.55 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 5.05 | 68.87 | 16.18 | | 150.0 | |
| | | | Z | 5.06 | 67.45 | 16.38 | | 150.0 | |
| 10225- CAF | UMTS-FDD (HSPA+) | X | 2.94 | 86.61 | 15.90 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 2.72 | 85.45 | 14.90 | | 150.0 | |
| | | | Z | 2.20 | 86.78 | 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% | |
| | | | Y | 33.01 | 106.88 | 32.02 | | 65.0 | |
| | | | Z | 28.80 | 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% | |
| | | | Y | 27.58 | 104.08 | 30.11 | | 65.0 | |
| | | | Z | 21.87 | 98.19 | 25.60 | | 65.0 | |
| 10228- CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | X | 83.78 | 133.19 | 40.33 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 27.23 | 111.37 | 34.65 | | 65.0 | |
| | | | Z | 14.92 | 99.20 | 29.65 | | 65.0 | |
| 10229- CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | X | 100.00 | 127.75 | 36.86 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 30.45 | 107.22 | 31.48 | | 65.0 | |
| | | | Z | 25.36 | 102.20 | 26.19 | | 65.0 | |
| 10230- CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | X | 64.64 | 118.06 | 33.68 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 26.37 | 102.71 | 29.64 | | 65.0 | |
| | | | Z | 19.55 | 98.45 | 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 | 26.26 | 109.74 | 34.10 | | 65.0 | |
| | | | Z | 13.84 | 97.89 | 29.10 | | 65.0 | |
| 10232- CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | X | 100.00 | 127.76 | 36.86 | 6.02 | 65.0 | ±9.6% | |
| | | | 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 | 26.68 | 102.71 | 29.64 | | 65.0 | |
| | | | Z | 19.51 | 98.43 | 25.91 | | 65.0 | |
| 10234- CAF | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | X | 88.78 | 128.16 | 38.87 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 23.59 | 100.18 | 33.33 | | 65.0 | |
| | | | Z | 12.92 | 98.23 | 25.52 | | 65.0 | |
| 10235- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | X | 100.00 | 127.77 | 36.86 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 30.53 | 107.29 | 31.50 | | 65.0 | |
| | | | Z | 25.37 | 102.23 | 28.18 | | 65.0 | |
| 10236- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | X | 65.78 | 118.24 | 33.73 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 25.93 | 102.67 | 29.66 | | 65.0 | |
| | | | Z | 19.72 | 96.57 | 25.94 | | 65.0 | |
| 10237- CAF | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 78.22 | 131.13 | 39.74 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 25.48 | 100.93 | 34.16 | | 65.0 | |
| | | | Z | 13.89 | 97.79 | 25.12 | | 65.0 | |
| 10238- CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 100.00 | 127.76 | 36.86 | 6.02 | 65.0 | ±9.6% | |
| | | | Y | 30.42 | 107.23 | 31.48 | | 65.0 | |
| | | | Z | 25.26 | 102.15 | 28.17 | | 65.0 | |

Certificate No: EX3-3938_Oct18

Page 20 of 38

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.

EX30V4-SN3938

October 31, 2019

| | | | | | | | | | |
|-----------|--|---|-------|--------|--------|-------|------|---------|--|
| 10233-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | X | 64.82 | 118.13 | 33.68 | 0.02 | 85.0 | ± 9.6 % | |
| | | | Y | 25.62 | 102.71 | 29.64 | | 85.0 | |
| | | | Z | 19.45 | 96.80 | 25.90 | | 85.0 | |
| 10240-CAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | X | 75.84 | 131.04 | 39.71 | 8.02 | 85.0 | ± 9.6 % | |
| | | | Y | 25.37 | 109.66 | 34.14 | | 85.0 | |
| | | | Z | 13.64 | 97.74 | 29.11 | | 85.0 | |
| 10241-GAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 12.34 | 67.77 | 28.06 | 6.98 | 85.0 | ± 9.6 % | |
| | | | Y | 10.81 | 64.69 | 26.80 | | 85.0 | |
| | | | Z | 9.45 | 63.27 | 25.34 | | 85.0 | |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 11.80 | 66.96 | 27.68 | 6.96 | 85.0 | ± 9.6 % | |
| | | | Y | 9.43 | 62.13 | 25.70 | | 85.0 | |
| | | | Z | 8.88 | 62.07 | 24.81 | | 85.0 | |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 9.29 | 63.62 | 27.37 | 0.98 | 85.0 | ± 9.6 % | |
| | | | Y | 7.80 | 79.19 | 25.41 | | 85.0 | |
| | | | Z | 6.90 | 78.26 | 24.23 | | 85.0 | |
| 10244-QAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 11.62 | 65.25 | 22.95 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 9.03 | 61.02 | 21.07 | | 85.0 | |
| | | | Z | 5.90 | 74.19 | 17.01 | | 85.0 | |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | X | 11.21 | 64.37 | 22.89 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 8.74 | 60.23 | 20.72 | | 85.0 | |
| | | | Z | 5.76 | 73.60 | 16.72 | | 85.0 | |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 13.76 | 91.33 | 25.01 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 8.27 | 62.50 | 21.35 | | 85.0 | |
| | | | Z | 5.24 | 75.79 | 17.95 | | 85.0 | |
| 10247-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | X | 8.16 | 60.38 | 21.81 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 6.57 | 76.53 | 19.78 | | 85.0 | |
| | | | Z | 5.10 | 72.95 | 17.62 | | 85.0 | |
| 10248-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 7.96 | 79.46 | 21.43 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 6.60 | 75.66 | 19.49 | | 85.0 | |
| | | | Z | 5.09 | 72.45 | 17.30 | | 85.0 | |
| 10249-CAF | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | X | 14.67 | 92.89 | 29.21 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 9.72 | 85.51 | 23.23 | | 85.0 | |
| | | | Z | 6.58 | 78.62 | 20.20 | | 85.0 | |
| 10250-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 8.79 | 81.74 | 23.60 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 7.53 | 78.95 | 22.19 | | 85.0 | |
| | | | Z | 6.20 | 76.02 | 20.42 | | 85.0 | |
| 10251-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | X | 8.02 | 78.77 | 22.12 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 7.01 | 76.95 | 20.84 | | 85.0 | |
| | | | Z | 5.89 | 73.77 | 19.14 | | 85.0 | |
| 10252-CAF | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X | 12.21 | 88.16 | 25.60 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 8.34 | 84.33 | 23.66 | | 85.0 | |
| | | | Z | 7.06 | 80.06 | 21.46 | | 85.0 | |
| 10253-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | X | 7.75 | 77.28 | 21.77 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 6.93 | 75.28 | 20.72 | | 85.0 | |
| | | | Z | 5.92 | 73.10 | 19.23 | | 85.0 | |
| 10254-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | X | 8.16 | 78.13 | 22.42 | 3.98 | 85.0 | ± 9.6 % | |
| | | | Y | 7.94 | 79.22 | 21.42 | | 85.0 | |
| | | | Z | 6.32 | 74.11 | 18.69 | | 85.0 | |

Certificate No. EX3-3938_Qc15

Page 21 of 26

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.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

EX30V4- SN:3938

October 24, 2018

| | | | | | | | | |
|-----------|---|---|-------|-------|-------|------|------|-------|
| 10255-CAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | X | 9.52 | 82.98 | 23.03 | 3.98 | 65.0 | ±9.6% |
| | | Y | 9.03 | 79.93 | 22.27 | | 65.0 | |
| | | Z | 8.80 | 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 | |
| | | Z | 4.37 | 69.73 | 14.06 | | 65.0 | |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 8.67 | 81.35 | 20.60 | 3.98 | 65.0 | ±9.6% |
| | | Y | 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 | 23.00 | 3.98 | 65.0 | ±9.6% |
| | | Y | 8.32 | 77.02 | 18.86 | | 65.0 | |
| | | Z | 3.86 | 71.16 | 15.20 | | 65.0 | |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | X | 8.37 | 80.75 | 22.59 | 3.98 | 65.0 | ±9.6% |
| | | Y | 6.95 | 77.37 | 20.63 | | 65.0 | |
| | | Z | 5.53 | 74.09 | 18.56 | | 65.0 | |
| 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 | 6.91 | 77.04 | 20.51 | | 65.0 | |
| | | Z | 5.55 | 73.86 | 18.48 | | 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 | 84.06 | 23.10 | | 65.0 | |
| | | Z | 6.47 | 78.98 | 20.51 | | 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 | 22.16 | | 65.0 | |
| | | Z | 6.10 | 75.95 | 20.36 | | 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 | 20.63 | | 65.0 | |
| | | Z | 5.82 | 73.75 | 19.13 | | 65.0 | |
| 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 | |
| | | Z | 7.01 | 79.65 | 21.36 | | 65.0 | |
| 10265-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 8.64 | 78.09 | 22.05 | 3.98 | 65.0 | ±9.6% |
| | | Y | 7.13 | 75.01 | 20.07 | | 65.0 | |
| | | Z | 6.04 | 73.58 | 19.44 | | 65.0 | |
| 10266-CAF | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X | 8.44 | 78.91 | 22.74 | 3.98 | 65.0 | ±9.6% |
| | | 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) | X | 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 | 22.62 | 3.98 | 65.0 | ±9.6% |
| | | Y | 7.68 | 75.51 | 21.20 | | 65.0 | |
| | | Z | 6.70 | 73.67 | 19.92 | | 65.0 | |
| 10269-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | X | 8.28 | 76.63 | 21.85 | 3.98 | 65.0 | ±9.6% |
| | | Y | 7.58 | 75.05 | 21.07 | | 65.0 | |
| | | Z | 6.67 | 73.30 | 19.83 | | 65.0 | |
| 10270-CAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | X | 8.88 | 79.53 | 22.70 | 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 30

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.

EX30VA-SN:3938

October 24, 2018

| | | | | | | | | |
|-----------|---|---|-------|--------|-------|-------|-------|---------|
| 10274-CAB | UMTS-FDD (HSPA, Subtest 5, 3GPP R&S 10) | X | 2.60 | 67.00 | 15.83 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.47 | 65.81 | 14.67 | | 150.0 | |
| | | Z | 2.60 | 67.27 | 15.58 | | 150.0 | |
| 10275-CAB | UMTS-FDD (HSPA, Subtest 5, 3GPP R&S 4) | X | 1.83 | 70.14 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.44 | 66.20 | 14.31 | | 150.0 | |
| | | Z | 1.75 | 69.74 | 16.44 | | 150.0 | |
| 10277-CAA | PHS (QPSK) | X | 3.83 | 66.44 | 11.36 | 0.03 | 50.0 | ± 9.6 % |
| | | Y | 3.47 | 64.75 | 10.20 | | 50.0 | |
| | | Z | 2.82 | 62.17 | 7.82 | | 50.0 | |
| 10278-CAA | PHS (QPSK, BW 884MHz, Roll-off 0.5) | X | 14.62 | 69.25 | 23.47 | -5.03 | 50.0 | ± 9.6 % |
| | | Y | 7.61 | 75.00 | 18.87 | | 50.0 | |
| | | Z | 4.28 | 66.20 | 13.78 | | 50.0 | |
| 10279-CAA | PHS (QPSK, BW 884MHz, Roll-off 0.38) | X | 14.85 | 88.41 | 23.66 | 8.03 | 50.0 | ± 9.6 % |
| | | Y | 7.77 | 78.24 | 18.99 | | 50.0 | |
| | | Z | 4.59 | 66.44 | 13.93 | | 50.0 | |
| 10290-AAB | CDMA2000, RC1, 3QPS, Full Rate | X | 2.10 | 73.72 | 17.06 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.20 | 65.83 | 12.24 | | 150.0 | |
| | | Z | 1.79 | 72.49 | 15.56 | | 150.0 | |
| 10291-AAB | CDMA2000, RC3, 3QPS, Full Rate | X | 1.15 | 70.51 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.67 | 83.17 | 10.49 | | 150.0 | |
| | | Z | 0.94 | 88.71 | 13.80 | | 150.0 | |
| 10292-AAB | CDMA2000, RC3, 3QPS, Full Rate | X | 1.93 | 79.28 | 18.72 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.76 | 65.41 | 12.01 | | 150.0 | |
| | | Z | 2.01 | 80.04 | 18.35 | | 150.0 | |
| 10293-AAB | CDMA2000, RC3, 3QPS, Full Rate | X | 4.24 | 91.88 | 24.62 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.89 | 88.94 | 14.19 | | 150.0 | |
| | | Z | 16.80 | 110.82 | 28.51 | | 150.0 | |
| 10295-AAB | CDMA2000, RC1, 3QPS, 1.88x Rate 25 fr. | X | 12.27 | 89.66 | 28.90 | 8.03 | 50.0 | ± 9.6 % |
| | | Y | 10.84 | 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 | 88.47 | 15.73 | | 150.0 | |
| | | Z | 2.87 | 71.14 | 17.24 | | 150.0 | |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 2.03 | 71.15 | 19.52 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.39 | 65.75 | 12.91 | | 150.0 | |
| | | Z | 1.75 | 70.22 | 15.26 | | 150.0 | |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 4.66 | 77.12 | 18.36 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.14 | 71.60 | 15.84 | | 150.0 | |
| | | Z | 3.75 | 74.00 | 15.76 | | 150.0 | |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | X | 2.97 | 89.66 | 14.52 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.28 | 86.28 | 12.46 | | 150.0 | |
| | | Z | 2.17 | 86.32 | 11.82 | | 150.0 | |
| 10301-AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) | X | 5.32 | 68.98 | 18.36 | 4.17 | 50.0 | ± 9.6 % |
| | | Y | 5.72 | 66.88 | 18.11 | | 50.0 | |
| | | Z | 4.67 | 65.81 | 17.58 | | 50.0 | |
| 10302-AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CCH symbols) | X | 5.74 | 67.34 | 18.93 | 4.96 | 50.0 | ± 9.6 % |
| | | Y | 5.86 | 66.87 | 18.46 | | 50.0 | |
| | | Z | 5.18 | 66.25 | 18.09 | | 50.0 | |

Certificate No. EX3-3938_Dtd18

Page 23 of 34

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.

EX30V4-5K3938

October 29, 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 | 4.95 | 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 | | 50.0 | |
| 10305-AAA | IEEE 802.16e WIMAX (31*15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) | X | 5.07 | 72.27 | 22.34 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.72 | 72.48 | 21.90 | | 35.0 | |
| | | | Z | 4.06 | 68.90 | 20.05 | | 35.0 | |
| 10306-AAA | IEEE 802.16e WIMAX (29*18, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) | X | 5.47 | 68.37 | 20.21 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 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 | |
| | | | Z | 4.75 | 67.07 | 19.37 | | 35.0 | |
| 10308-AAA | IEEE 802.16e WIMAX (29*18, 10ms, 10MHz, 16QAM, PUSC) | X | 5.58 | 70.46 | 21.39 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.56 | 70.48 | 21.00 | | 35.0 | |
| | | | Z | 4.74 | 67.84 | 19.64 | | 35.0 | |
| 10309-AAA | IEEE 802.16e WIMAX (29*18, 10ms, 10MHz, 16QAM, AMC 2cs, 18 symbols) | X | 5.56 | 68.68 | 20.38 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.81 | 69.00 | 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 2cs, 18 symbols) | X | 5.54 | 69.67 | 21.04 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 6.51 | 69.73 | 20.88 | | 35.0 | |
| | | | Z | 4.78 | 67.38 | 19.33 | | 35.0 | |
| 10311-AAD | LTE FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | X | 3.47 | 79.67 | 17.10 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.93 | 67.81 | 15.48 | | 150.0 | |
| | | | Z | 3.26 | 70.40 | 16.86 | | 150.0 | |
| 10313-AAA | DEN 1.3 | X | 10.55 | 84.71 | 20.54 | 6.00 | 70.0 | ± 9.6 % | |
| | | | Y | 5.52 | 75.51 | 18.93 | | 70.0 | |
| | | | Z | 3.35 | 69.99 | 14.11 | | 70.0 | |
| 10314-AAA | DEN 1.6 | X | 24.93 | 102.67 | 28.79 | 10.00 | 30.0 | ± 9.6 % | |
| | | | Y | 8.40 | 84.48 | 22.81 | | 30.0 | |
| | | | Z | 1.54 | 75.67 | 18.98 | | 30.0 | |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | X | 1.19 | 65.40 | 16.44 | 0.17 | 180.0 | ± 9.6 % | |
| | | | Y | 1.01 | 63.11 | 14.44 | | 180.0 | |
| | | | Z | 1.08 | 64.77 | 15.73 | | 180.0 | |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | X | 4.72 | 66.92 | 16.53 | 0.17 | 180.0 | ± 9.6 % | |
| | | | Y | 4.56 | 66.38 | 16.12 | | 180.0 | |
| | | | Z | 4.51 | 66.86 | 16.22 | | 180.0 | |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | X | 4.72 | 66.92 | 16.53 | 0.17 | 180.0 | ± 9.6 % | |
| | | | Y | 4.56 | 66.38 | 16.12 | | 180.0 | |
| | | | Z | 4.51 | 66.86 | 16.22 | | 180.0 | |
| 10400-WAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle) | X | 4.84 | 67.20 | 18.45 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.66 | 66.61 | 18.02 | | 150.0 | |
| | | | Z | 4.63 | 67.25 | 18.28 | | 150.0 | |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle) | X | 5.48 | 67.20 | 18.49 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.36 | 66.85 | 18.23 | | 150.0 | |
| | | | Z | 5.28 | 67.24 | 18.32 | | 150.0 | |

Certificate No. EIC-3938_Ccd11

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.

EX0314- SN:3938

October 24, 2018

| | | | | | | | | |
|---------------|---|---|--------|--------|-------|------|-------|---------|
| 10405- AAB | IEEE 802.11ac WiFi (80MHz, 64-QAM, 50% duty cycle) | X | 5.76 | 67.75 | 16.90 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.63 | 67.21 | 16.26 | | 150.0 | |
| | | Z | 5.57 | 67.70 | 16.42 | | 150.0 | |
| 10405- AAE | 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- AAE | 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- AAE | CDMA2000, RC3, SQ32, SCH0, Full Rate | X | 100.00 | 122.15 | 31.29 | 0.00 | 100.0 | ± 9.6 % |
| | | Y | 29.24 | 105.80 | 27.50 | | 100.0 | |
| | | 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 Cont=1) | X | 100.00 | 121.08 | 30.91 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 121.88 | 31.03 | | 80.0 | |
| | | Z | 83.71 | 111.58 | 25.89 | | 90.0 | |
| 10415- AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90% duty cycle) | X | 1.05 | 63.90 | 15.54 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.51 | 61.92 | 13.65 | | 150.0 | |
| | | Z | 0.99 | 63.88 | 15.24 | | 150.0 | |
| 10416- AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 90% duty cycle) | X | 4.84 | 65.82 | 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- AAE | IEEE 802.11ah WiFi 8 GHz (OFDM, 5 Mbps, 90% duty cycle) | X | 4.84 | 65.82 | 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 | |
| 10418- AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90% duty cycle, Long preamble) | X | 4.63 | 66.87 | 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, 90% duty cycle, Short preamble) | X | 4.68 | 66.93 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.49 | 66.36 | 15.96 | | 150.0 | |
| | | Z | 4.48 | 67.06 | 16.28 | | 150.0 | |
| 10422- AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | X | 4.79 | 66.92 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.61 | 66.37 | 16.01 | | 150.0 | |
| | | Z | 4.61 | 67.06 | 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 | |
| | | Z | 4.77 | 67.36 | 16.38 | | 150.0 | |
| 10424- 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 | 66.85 | 16.10 | | 150.0 | |
| | | Z | 4.89 | 67.32 | 16.37 | | 150.0 | |
| 10425- AAB | IEEE 802.11n (HT Greenfield, 10 Mbps, BPSK) | X | 5.44 | 67.47 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.32 | 67.05 | 16.33 | | 150.0 | |
| | | Z | 5.25 | 67.48 | 16.46 | | 150.0 | |
| 10428- AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | X | 5.45 | 67.50 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.32 | 67.06 | 16.33 | | 150.0 | |
| | | Z | 5.26 | 67.50 | 16.46 | | 150.0 | |

Certificate No. EX031438_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.

EX3DV4-SN3938

October 24, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|------|-------|-------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | X | 5.47 | 67.62 | 16.63 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.33 | 67.64 | 16.51 | | 150.0 | |
| | | Z | 5.28 | 67.60 | 16.46 | | 150.0 | |
| 10430-AAD | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | X | 4.44 | 70.94 | 16.55 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.14 | 70.00 | 17.76 | | 150.0 | |
| | | Z | 4.53 | 72.71 | 16.04 | | 150.0 | |
| 10431-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | X | 4.30 | 67.45 | 16.60 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.17 | 66.74 | 15.93 | | 150.0 | |
| | | Z | 4.19 | 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 | |
| | | 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% |
| | | Y | 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 DPCCH) | X | 4.58 | 71.86 | 16.63 | 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 | 120.85 | 30.73 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 121.66 | 30.95 | | 80.0 | |
| | | Z | 66.36 | 108.66 | 25.16 | | 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 | 15.16 | | 150.0 | |
| | | Z | 3.50 | 67.81 | 16.74 | | 150.0 | |
| 10448-AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | X | 4.21 | 67.23 | 16.37 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.00 | 66.50 | 15.77 | | 150.0 | |
| | | Z | 4.03 | 67.40 | 16.15 | | 150.0 | |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | X | 4.46 | 67.14 | 16.42 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.27 | 66.48 | 15.91 | | 150.0 | |
| | | 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% |
| | | 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 DPCCH, Clipping 44%) | X | 3.66 | 68.00 | 15.99 | 0.00 | 150.0 | ±9.6% |
| | | Y | 3.33 | 66.66 | 14.77 | | 150.0 | |
| | | Z | 3.40 | 68.05 | 16.38 | | 150.0 | |
| 10455-AAB | IEEE 802.11ac WiFi (100MHz, 64-QAM 99pc duty cycle) | X | 6.29 | 68.08 | 16.78 | 0.00 | 150.0 | ±9.6% |
| | | Y | 6.17 | 67.53 | 16.50 | | 150.0 | |
| | | Z | 6.11 | 68.01 | 16.56 | | 150.0 | |
| 10457-AAA | UMTS-FDD (DC-HSDPA) | X | 3.03 | 65.45 | 16.13 | 0.00 | 150.0 | ±9.6% |
| | | Y | 3.72 | 64.69 | 15.67 | | 150.0 | |
| | | Z | 3.74 | 65.80 | 15.96 | | 150.0 | |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B.2 carriers) | X | 4.16 | 70.63 | 18.07 | 0.00 | 150.0 | ±9.6% |
| | | Y | 3.83 | 69.60 | 17.01 | | 150.0 | |
| | | Z | 4.25 | 73.72 | 18.49 | | 150.0 | |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B.3 carriers) | X | 5.50 | 68.00 | 16.25 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.01 | 67.77 | 17.91 | | 150.0 | |
| | | Z | 5.25 | 69.65 | 18.70 | | 150.0 | |

Certificate No: EX3-3938_0d15

Page 26 of 28

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.

EX3DV4- SN3938

October 24, 2019

| | | | | | | | | |
|-----------|---|---|--------|--------|-------|------|-------|-------|
| 10460-AAA | LIMITS-FDD (WCDMA, AMR) | X | 1.12 | 72.77 | 18.83 | 0.00 | 150.0 | ±9.8% |
| | | Y | 0.73 | 88.44 | 13.95 | | 150.0 | |
| | | Z | 1.01 | 71.76 | 16.00 | | 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 | 3.25 | 80.0 | ±9.6% |
| | | Y | 100.00 | 125.87 | 32.93 | | 80.0 | |
| | | Z | 90.57 | 118.03 | 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) | X | 100.00 | 100.88 | 25.50 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 109.45 | 25.28 | | 80.0 | |
| | | Z | 81.16 | 80.79 | 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 | 80.00 | 7.05 | | 80.0 | |
| 10464-AAA | 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 | |
| | | Z | 25.98 | 98.94 | 23.07 | | 80.0 | |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 109.41 | 25.39 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 108.89 | 24.99 | | 80.0 | |
| | | Z | 1.05 | 80.34 | 7.80 | | 80.0 | |
| 10466-AAA | 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 | 80.0 | ±9.6% |
| | | Y | 17.42 | 87.73 | 19.16 | | 80.0 | |
| | | Z | 1.03 | 80.00 | 7.00 | | 80.0 | |
| 10467-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.67 | 32.35 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 123.95 | 31.88 | | 80.0 | |
| | | Z | 34.96 | 102.47 | 23.96 | | 80.0 | |
| 10468-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 109.58 | 25.58 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 109.06 | 25.07 | | 80.0 | |
| | | Z | 1.06 | 80.45 | 7.67 | | 80.0 | |
| 10469-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.16 | 23.77 | 3.23 | 80.0 | ±9.6% |
| | | Y | 19.04 | 88.11 | 19.26 | | 80.0 | |
| | | Z | 1.03 | 80.00 | 7.00 | | 80.0 | |
| 10470-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.71 | 32.35 | 3.23 | 80.0 | ±9.6% |
| | | Y | 100.00 | 123.98 | 31.88 | | 80.0 | |
| | | Z | 35.24 | 102.58 | 23.97 | | 80.0 | |
| 10471-AAA | 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 | |
| | | Z | 1.05 | 80.40 | 7.64 | | 80.0 | |
| 10472-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 105.13 | 23.74 | 3.23 | 80.0 | ±9.6% |
| | | Y | 17.90 | 88.00 | 19.21 | | 80.0 | |
| | | Z | 1.02 | 80.00 | 6.99 | | 80.0 | |
| 10473-AAA | 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 | |
| | | Z | 34.67 | 102.34 | 23.91 | | 80.0 | |
| 10474-AAA | 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 | | 80.0 | |
| | | Z | 1.05 | 80.39 | 7.63 | | 80.0 | |
| 10475-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-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 | 87.75 | 19.15 | | 80.0 | |
| | | Z | 1.03 | 80.00 | 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.

EX30V4-SN-3038

October 24, 2015

| | | | | | | | | | |
|-----------|---|---|--------|--------|--------|--------|------|-------|--|
| 10477-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 100.07 | -25.27 | 3.23 | 80.0 | ±9.6% | |
| | | | Y | 100.00 | 100.84 | -24.96 | | 80.0 | |
| | | | Z | 1.03 | 80.28 | 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 | 108.09 | -23.72 | 3.23 | 80.0 | ±9.6% | |
| | | | Y | 17.09 | 87.46 | 19.06 | | 80.0 | |
| | | | Z | 1.03 | 60.00 | 6.98 | | 80.0 | |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 32.47 | 106.40 | -30.35 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 20.42 | 102.38 | -28.35 | | 80.0 | |
| | | | Z | 5.33 | 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% | |
| | | | Y | 20.70 | 84.12 | 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) | X | 32.83 | 100.01 | -25.80 | 3.23 | 80.0 | ±9.6% | |
| | | | Y | 15.07 | 89.39 | -22.38 | | 80.0 | |
| | | | Z | 4.46 | 72.49 | 15.13 | | 80.0 | |
| 10482-AAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 8.20 | 87.25 | -29.04 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 8.84 | 74.35 | 17.85 | | 80.0 | |
| | | | Z | 2.70 | 70.00 | 15.33 | | 80.0 | |
| 10483-AAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 15.24 | 93.75 | -23.81 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 12.75 | 83.70 | -21.08 | | 80.0 | |
| | | | Z | 3.87 | 71.04 | 15.10 | | 80.0 | |
| 10484-AAE | 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 | |
| | | | 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 | 4.38 | 75.94 | -19.15 | | 80.0 | |
| | | | Z | 3.22 | 72.33 | 17.26 | | 80.0 | |
| 10486-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.38 | 76.17 | -18.56 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 3.79 | 70.74 | -16.72 | | 80.0 | |
| | | | Z | 3.98 | 68.57 | 15.26 | | 80.0 | |
| 10487-AAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframes=2,3,4,7,8,9) | X | 5.22 | 75.40 | -15.25 | 2.23 | 80.0 | ±9.6% | |
| | | | 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 | 6.68 | 81.06 | -22.14 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 4.49 | 74.73 | -19.35 | | 80.0 | |
| | | | Z | 3.58 | 72.12 | 17.84 | | 80.0 | |
| 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 | 3.49 | 68.92 | 18.70 | | 80.0 | |
| 10490-AAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.89 | 72.56 | -18.23 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 4.10 | 70.09 | -17.04 | | 80.0 | |
| | | | Z | 3.57 | 68.77 | 18.66 | | 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 | 72.00 | -18.68 | | 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 | 4.64 | 71.88 | -18.90 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 4.31 | 69.40 | -17.63 | | 80.0 | |
| | | | Z | 3.63 | 68.32 | 18.79 | | 80.0 | |

Certificate No: EX3-3938_0918

Page 28 of 38

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.

EX30V6- SN3938

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 | 16.79 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.37 | 68.24 | 17.88 | | 80.0 | |
| | | Z | 3.90 | 66.20 | 16.75 | | 80.0 | |
| 10494-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 70.86 | 21.60 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.99 | 74.37 | 19.18 | | 80.0 | |
| | | Z | 4.13 | 72.26 | 18.02 | | 80.0 | |
| 10495-AAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.07 | 72.59 | 19.18 | 2.23 | 80.0 | ±9.6% |
| | | 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 | |
| | | Z | 3.95 | 68.45 | 16.92 | | 80.0 | |
| 10497-AAV | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 7.77 | 84.28 | 21.25 | 2.23 | 80.0 | ±9.6% |
| | | Y | 2.76 | 69.51 | 14.63 | | 80.0 | |
| | | Z | 1.93 | 65.28 | 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 | |
| | | 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) | X | 3.85 | 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) | X | 6.85 | 82.59 | 22.44 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.30 | 75.81 | 19.09 | | 80.0 | |
| | | Z | 3.32 | 71.89 | 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 | 19.29 | 2.23 | 80.0 | ±9.6% |
| | | Y | 3.90 | 70.69 | 17.11 | | 80.0 | |
| | | 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 | 16.99 | | 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 | |
| | | Z | 3.53 | 71.90 | 17.84 | | 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 | 3.95 | 70.22 | 17.05 | | 80.0 | |
| | | Z | 3.48 | 68.82 | 16.64 | | 80.0 | |
| 10505-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% |
| | | Y | 4.37 | 69.98 | 17.68 | | 80.0 | |
| | | Z | 3.55 | 68.67 | 16.60 | | 80.0 | |
| 10506-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 6.97 | 79.65 | 21.49 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.94 | 74.20 | 19.10 | | 80.0 | |
| | | Z | 4.10 | 72.10 | 17.34 | | 80.0 | |
| 10507-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 72.32 | 19.14 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.35 | 69.81 | 17.80 | | 80.0 | |
| | | Z | 3.85 | 66.63 | 16.94 | | 80.0 | |

Certificate No. EX3-3938_0418

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.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

EX30V4-SN:3938

October 24, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|-------|-------|-------|--|
| 10506-AAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 71.72 | 18.53 | 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 | 5.42 | 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) | X | 5.41 | 71.43 | 18.82 | 2.23 | 80.0 | ±9.6% | |
| | | | Y | 4.81 | 69.39 | 17.73 | | 80.0 | |
| | | | Z | 4.34 | 68.44 | 16.99 | | 80.0 | |
| 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 | 4.36 | 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 | 5.47 | 79.47 | 21.24 | 2.23 | 80.0 | ±9.6% | |
| | | | 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 | 17.06 | | 80.0 | |
| | | | Z | 4.23 | 68.68 | 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 | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | X | 0.98 | 54.18 | 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 | |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | X | 1.07 | 82.62 | 23.20 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 0.42 | 68.18 | 13.67 | | 150.0 | |
| | | | Z | 0.78 | 73.03 | 21.08 | | 150.0 | |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | X | 0.89 | 87.34 | 17.01 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 0.70 | 83.35 | 13.75 | | 150.0 | |
| | | | Z | 0.83 | 86.82 | 16.43 | | 150.0 | |
| 10518-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 8 Mbps, 99pc duty cycle) | X | 4.84 | 66.80 | 16.38 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 4.47 | 66.33 | 15.94 | | 150.0 | |
| | | | Z | 4.47 | 67.04 | 16.24 | | 150.0 | |
| 10520-AAB | IEEE 802.11ah 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 | |
| | | | Z | 4.85 | 67.25 | 16.34 | | 150.0 | |
| 10521-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | X | 4.71 | 67.17 | 16.49 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 4.58 | 66.54 | 15.99 | | 150.0 | |
| | | | Z | 4.51 | 67.23 | 16.28 | | 150.0 | |
| 10522-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | X | 4.84 | 67.19 | 16.44 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 4.46 | 66.53 | 15.97 | | 150.0 | |
| | | | Z | 4.44 | 67.34 | 16.27 | | 150.0 | |
| 10522-AAE | IEEE 802.11ah WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | X | 4.89 | 67.17 | 16.48 | 0.00 | 150.0 | ±9.6% | |
| | | | Y | 4.51 | 66.60 | 16.04 | | 150.0 | |
| | | | Z | 4.83 | 67.33 | 16.35 | | 150.0 | |

Certificate No: EX30V4-SN:3938

Page 30 of 38

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.

EX-3034- SN:3938

October 24, 2019

| | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|-------|
| 10523-AAB | IEEE 802.11ah 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 | |
| | | Z | 4.39 | 67.23 | 16.22 | | 150.0 | |
| 10524-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 64 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 | |
| | | Z | 4.44 | 67.24 | 16.32 | | 150.0 | |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) | X | 4.80 | 66.17 | 16.06 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.43 | 65.55 | 15.80 | | 150.0 | |
| | | Z | 4.44 | 66.33 | 16.04 | | 150.0 | |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) | X | 4.90 | 66.57 | 16.20 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.93 | 65.93 | 15.75 | | 150.0 | |
| | | Z | 4.61 | 66.68 | 16.07 | | 150.0 | |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) | X | 4.72 | 66.55 | 16.18 | 0.00 | 150.0 | ±9.6% |
| | | Y | 4.52 | 65.88 | 15.89 | | 150.0 | |
| | | Z | 4.53 | 66.66 | 16.02 | | 150.0 | |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 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 | 4.56 | 66.67 | 16.05 | | 150.0 | |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) | X | 4.75 | 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, MCS5, 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 | 65.85 | 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 | |
| | | Z | 4.56 | 66.72 | 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 | 65.08 | 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 | |
| | | Z | 5.12 | 66.85 | 16.13 | | 150.0 | |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) | X | 5.15 | 66.81 | 16.25 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.01 | 66.18 | 15.84 | | 150.0 | |
| | | Z | 5.06 | 66.94 | 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% |
| | | Y | 5.07 | 66.17 | 15.84 | | 150.0 | |
| | | Z | 5.05 | 66.79 | 16.06 | | 150.0 | |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle) | X | 5.35 | 66.82 | 16.29 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.17 | 66.21 | 15.80 | | 150.0 | |
| | | Z | 5.14 | 66.79 | 16.12 | | 150.0 | |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 99pc duty cycle) | X | 5.25 | 66.78 | 16.25 | 0.00 | 150.0 | ±9.6% |
| | | Y | 5.09 | 66.21 | 15.91 | | 150.0 | |
| | | Z | 5.07 | 66.79 | 16.13 | | 150.0 | |

Certificate No: EX3-3938, Oct19

Page 31 of 33

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.

EX30V4- 5N:3838

October 24, 2018

| | | | | | | | | | |
|-----------|--|---|------|-------|-------|-------|-------|---------|--|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle) | X | 5.24 | 66.89 | 16.24 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.06 | 66.08 | 15.64 | | 150.0 | |
| | | | 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 | |
| | | | Z | 5.27 | 66.76 | 16.14 | | 150.0 | |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle) | X | 5.52 | 66.77 | 16.19 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.36 | 66.20 | 15.82 | | 150.0 | |
| | | | Z | 5.37 | 66.80 | 16.04 | | 150.0 | |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle) | X | 5.72 | 67.11 | 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 | 66.48 | 15.91 | | 150.0 | |
| | | | Z | 5.43 | 66.88 | 16.10 | | 150.0 | |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle) | X | 5.70 | 67.12 | 16.31 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.53 | 66.48 | 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 | 5.80 | 67.53 | 16.41 | | 150.0 | |
| | | | Z | 5.84 | 67.65 | 16.39 | | 150.0 | |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle) | X | 5.53 | 67.00 | 16.27 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.47 | 66.43 | 15.91 | | 150.0 | |
| | | | Z | 5.45 | 67.00 | 16.12 | | 150.0 | |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle) | X | 5.55 | 67.07 | 16.26 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.48 | 66.46 | 15.89 | | 150.0 | |
| | | | 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 | |
| | | | Z | 5.38 | 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 | |
| | | | Z | 5.47 | 66.81 | 16.07 | | 150.0 | |
| 10554-AAC | IEEE 802.11ac WiFi (100MHz, MCS0, 99pc duty cycle) | X | 5.92 | 67.13 | 16.27 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.75 | 66.58 | 15.93 | | 150.0 | |
| | | | Z | 5.77 | 67.13 | 16.11 | | 150.0 | |
| 10555-AAC | IEEE 802.11ac WiFi (100MHz, MCS1, 99pc duty cycle) | X | 6.06 | 67.44 | 16.39 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.92 | 66.89 | 16.08 | | 150.0 | |
| | | | Z | 5.85 | 67.38 | 16.21 | | 150.0 | |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.07 | 67.47 | 16.40 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.94 | 66.94 | 16.07 | | 150.0 | |
| | | | Z | 5.90 | 67.42 | 16.23 | | 150.0 | |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.08 | 67.43 | 16.40 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.91 | 66.85 | 16.06 | | 150.0 | |
| | | | Z | 5.87 | 67.36 | 16.22 | | 150.0 | |

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.

EX3014- SN:3038

October 24, 2018

| | | | | | | | | |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle) | X | 0.11 | 67.90 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.96 | 67.02 | 16.15 | | 150.0 | |
| | | Z | 5.91 | 67.50 | 16.30 | | 150.0 | |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | X | 5.11 | 67.48 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.95 | 66.87 | 16.11 | | 150.0 | |
| | | Z | 5.92 | 67.38 | 16.28 | | 150.0 | |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) | X | 5.02 | 67.40 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.87 | 66.94 | 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 | 5.19 | 67.52 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.01 | 67.26 | 16.35 | | 150.0 | |
| | | Z | 5.93 | 67.63 | 16.44 | | 150.0 | |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | X | 5.47 | 68.29 | 16.80 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.34 | 67.82 | 16.58 | | 150.0 | |
| | | Z | 5.09 | 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 | |
| | | 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 | |
| | | Z | 5.01 | 67.49 | 16.68 | | 150.0 | |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.05 | 67.34 | 16.89 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.88 | 66.77 | 16.28 | | 150.0 | |
| | | Z | 4.84 | 67.32 | 16.46 | | 150.0 | |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.08 | 67.74 | 17.04 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.81 | 67.15 | 16.63 | | 150.0 | |
| | | Z | 4.89 | 67.60 | 16.87 | | 150.0 | |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.87 | 67.07 | 16.45 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.80 | 66.54 | 16.05 | | 150.0 | |
| | | Z | 4.74 | 67.03 | 16.18 | | 150.0 | |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.03 | 67.76 | 17.06 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.86 | 67.22 | 16.86 | | 150.0 | |
| | | 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 | 5.05 | 67.62 | 17.01 | 0.46 | 150.0 | ± 9.6 % |
| | | Y | 4.80 | 67.08 | 16.62 | | 150.0 | |
| | | Z | 4.88 | 67.73 | 16.89 | | 150.0 | |
| 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 | 1.34 | 64.29 | 15.06 | | 130.0 | |
| | | Z | 1.11 | 65.90 | 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 | 15.36 | | 130.0 | |
| | | Z | 1.19 | 65.96 | 16.26 | | 130.0 | |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | X | 100.00 | 150.25 | 40.35 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 1.94 | 81.80 | 20.21 | | 130.0 | |
| | | Z | 5.37 | 101.46 | 27.76 | | 130.0 | |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | X | 1.86 | 71.63 | 22.17 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 1.28 | 70.31 | 17.99 | | 130.0 | |
| | | Z | 1.45 | 73.82 | 20.12 | | 130.0 | |

Certificate No: EX3-3038_Oct18

Page 33 of 38

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.

EX30V4-SN:3938

October 24, 2019

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|-------|-------|-------|--|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | X | 4.77 | 86.82 | 16.63 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.52 | 86.32 | 16.23 | | 130.0 | |
| | | | Z | 4.56 | 86.75 | 16.29 | | 130.0 | |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | X | 4.80 | 86.99 | 16.69 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.54 | 86.47 | 16.29 | | 130.0 | |
| | | | Z | 4.58 | 86.94 | 16.36 | | 130.0 | |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.03 | 87.31 | 16.86 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.85 | 86.76 | 16.47 | | 130.0 | |
| | | | Z | 4.78 | 87.21 | 16.54 | | 130.0 | |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.93 | 87.50 | 16.98 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.75 | 86.94 | 16.57 | | 130.0 | |
| | | | Z | 4.66 | 87.42 | 16.65 | | 130.0 | |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.69 | 86.84 | 16.33 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.52 | 86.24 | 15.89 | | 130.0 | |
| | | | Z | 4.43 | 86.57 | 15.89 | | 130.0 | |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.74 | 86.81 | 16.32 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.57 | 86.26 | 15.90 | | 130.0 | |
| | | | Z | 4.47 | 86.59 | 15.90 | | 130.0 | |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.83 | 87.58 | 16.95 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.65 | 86.98 | 16.51 | | 130.0 | |
| | | | Z | 4.59 | 87.47 | 16.62 | | 130.0 | |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.64 | 86.58 | 16.12 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.47 | 86.00 | 15.67 | | 130.0 | |
| | | | Z | 4.36 | 86.28 | 15.65 | | 130.0 | |
| 10583-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | X | 4.77 | 86.82 | 16.63 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.62 | 86.32 | 16.23 | | 130.0 | |
| | | | Z | 4.56 | 86.75 | 16.29 | | 130.0 | |
| 10584-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | X | 4.80 | 86.99 | 16.69 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.64 | 86.47 | 16.29 | | 130.0 | |
| | | | Z | 4.58 | 86.94 | 16.36 | | 130.0 | |
| 10586-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | X | 5.02 | 87.31 | 16.86 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.85 | 86.78 | 16.47 | | 130.0 | |
| | | | Z | 4.78 | 87.21 | 16.54 | | 130.0 | |
| 10586-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | X | 4.93 | 87.50 | 16.98 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.75 | 86.94 | 16.57 | | 130.0 | |
| | | | Z | 4.66 | 87.42 | 16.65 | | 130.0 | |
| 10587-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | X | 4.69 | 86.84 | 16.33 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.52 | 86.24 | 15.89 | | 130.0 | |
| | | | Z | 4.43 | 86.57 | 15.89 | | 130.0 | |
| 10588-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | X | 4.74 | 86.81 | 16.32 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.57 | 86.26 | 15.90 | | 130.0 | |
| | | | Z | 4.47 | 86.59 | 15.90 | | 130.0 | |
| 10589-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | X | 4.83 | 87.59 | 16.95 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.65 | 86.98 | 16.51 | | 130.0 | |
| | | | Z | 4.59 | 87.47 | 16.62 | | 130.0 | |
| 10590-AAB | IEEE 802.11ah WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | X | 4.64 | 86.58 | 16.12 | 0.46 | 130.0 | ±9.6% | |
| | | | Y | 4.47 | 86.00 | 15.67 | | 130.0 | |
| | | | Z | 4.36 | 86.28 | 15.65 | | 130.0 | |

Certificate No. EX3-3938_Out18

Page 34 of 36

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.

EX3DV4-SN3938

October 24, 2018

| | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10581-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.82 | 66.87 | 16.71 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 4.77 | 66.38 | 16.34 | | 130.0 | |
| | | Z | 4.71 | 65.82 | 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 | ± 9.8 % |
| | | Y | 4.93 | 65.72 | 16.47 | | 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 | ± 9.8 % |
| | | Y | 4.85 | 66.64 | 16.36 | | 130.0 | |
| | | Z | 4.77 | 67.04 | 16.40 | | 130.0 | |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.07 | 67.32 | 16.89 | 0.46 | 130.0 | ± 9.8 % |
| | | 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, MCS4, 90pc duty cycle) | X | 5.05 | 67.29 | 16.79 | 0.46 | 130.0 | ± 9.8 % |
| | | 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 | 4.88 | 67.29 | 16.80 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 4.81 | 66.75 | 16.40 | | 130.0 | |
| | | Z | 4.73 | 67.16 | 16.45 | | 130.0 | |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.94 | 67.23 | 16.70 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 4.76 | 66.66 | 16.29 | | 130.0 | |
| | | Z | 4.68 | 67.05 | 16.33 | | 130.0 | |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.92 | 67.49 | 16.96 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 4.74 | 66.90 | 16.55 | | 130.0 | |
| | | Z | 4.66 | 67.34 | 16.63 | | 130.0 | |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.58 | 67.43 | 16.88 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.44 | 66.96 | 16.58 | | 130.0 | |
| | | Z | 5.34 | 67.25 | 16.55 | | 130.0 | |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.74 | 67.88 | 17.02 | 0.46 | 130.0 | ± 9.8 % |
| | | 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) | X | 5.61 | 67.61 | 16.95 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.48 | 67.17 | 16.66 | | 130.0 | |
| | | Z | 5.35 | 67.37 | 16.60 | | 130.0 | |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.70 | 67.56 | 16.88 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.56 | 67.17 | 16.58 | | 130.0 | |
| | | Z | 5.45 | 67.40 | 16.52 | | 130.0 | |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.80 | 67.93 | 17.16 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.65 | 67.49 | 16.87 | | 130.0 | |
| | | Z | 5.42 | 67.63 | 16.61 | | 130.0 | |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.59 | 67.37 | 16.87 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.44 | 66.92 | 16.57 | | 130.0 | |
| | | Z | 5.37 | 67.27 | 16.55 | | 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 | ± 9.8 % |
| | | Y | 5.36 | 67.28 | 16.75 | | 130.0 | |
| | | Z | 5.43 | 67.44 | 16.88 | | 130.0 | |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.46 | 67.16 | 16.84 | 0.46 | 130.0 | ± 9.8 % |
| | | Y | 5.33 | 66.89 | 16.30 | | 130.0 | |
| | | Z | 5.20 | 66.97 | 16.23 | | 130.0 | |

Generate No: EX3-3938_Cnt16

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.

EX3DV4-SN3936

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 | 4.66 | 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% | |
| | | Y | 4.79 | 66.07 | 16.11 | | | 130.0 | |
| | | Z | 4.73 | 66.66 | 16.21 | | | 130.0 | |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.86 | 66.52 | 16.38 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.68 | 65.52 | 15.94 | | | 130.0 | |
| | | Z | 4.62 | 66.40 | 16.04 | | | 130.0 | |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.91 | 66.66 | 16.54 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.73 | 65.06 | 16.11 | | | 130.0 | |
| | | Z | 4.67 | 66.56 | 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 | 16.00 | | | 130.0 | |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 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% | |
| | | 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% | |
| | | 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% | |
| | | Y | 5.32 | 66.35 | 16.21 | | | 130.0 | |
| | | Z | 5.23 | 66.70 | 16.24 | | | 130.0 | |
| 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 | 16.25 | | | 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% | |
| | | 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 | 5.40 | 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 | 66.88 | 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: EX3-3936_0419

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.

EX3DV4-SN:3938

October 24, 2018

| | | | | | | | | |
|-----------|--|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) | X | 5.36 | 66.59 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.20 | 66.04 | 16.05 | | 130.0 | |
| | | Z | 5.12 | 66.39 | 16.07 | | 130.0 | |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) | X | 5.54 | 66.74 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
| | | 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 | 16.66 | | 130.0 | |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) | X | 5.68 | 66.78 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.54 | 66.26 | 16.12 | | 130.0 | |
| | | Z | 5.47 | 66.64 | 16.16 | | 130.0 | |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) | X | 5.50 | 67.26 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.79 | 68.84 | 16.38 | | 130.0 | |
| | | Z | 5.67 | 67.08 | 16.34 | | 130.0 | |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) | X | 5.73 | 69.91 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.58 | 68.38 | 16.08 | | 130.0 | |
| | | Z | 5.49 | 68.66 | 16.06 | | 130.0 | |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) | X | 5.81 | 69.97 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.67 | 68.46 | 16.13 | | 130.0 | |
| | | Z | 5.56 | 68.69 | 16.07 | | 130.0 | |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle) | X | 6.26 | 68.90 | 17.19 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.18 | 68.17 | 16.96 | | 130.0 | |
| | | Z | 5.83 | 67.70 | 16.58 | | 130.0 | |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle) | X | 6.19 | 68.30 | 17.32 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.03 | 67.83 | 16.98 | | 130.0 | |
| | | Z | 5.86 | 67.92 | 16.69 | | 130.0 | |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) | X | 5.88 | 67.37 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.75 | 66.88 | 16.53 | | 130.0 | |
| | | Z | 5.67 | 67.23 | 16.57 | | 130.0 | |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 80pc duty cycle) | X | 5.81 | 67.14 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.64 | 66.63 | 16.18 | | 130.0 | |
| | | Z | 5.57 | 66.89 | 16.21 | | 130.0 | |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 80pc duty cycle) | X | 5.79 | 67.15 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.63 | 66.56 | 16.26 | | 130.0 | |
| | | Z | 5.56 | 66.95 | 16.31 | | 130.0 | |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 80pc duty cycle) | X | 5.65 | 66.48 | 16.03 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.52 | 65.92 | 15.67 | | 130.0 | |
| | | Z | 5.11 | 66.16 | 15.09 | | 130.0 | |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 80pc duty cycle) | X | 6.07 | 67.13 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.96 | 66.60 | 16.23 | | 130.0 | |
| | | Z | 5.87 | 66.97 | 16.23 | | 130.0 | |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 80pc duty cycle) | X | 6.23 | 67.50 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.11 | 67.04 | 16.40 | | 130.0 | |
| | | Z | 6.00 | 67.28 | 16.36 | | 130.0 | |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 80pc duty cycle) | X | 6.23 | 67.47 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.11 | 67.00 | 16.38 | | 130.0 | |
| | | Z | 6.01 | 67.29 | 16.34 | | 130.0 | |

Certificate No: EX3-3938_Out1B

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.

EX3DV4- 5N3038

October 24, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|-------|-------|-------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 80pc duty cycle) | X | 6.23 | 67.49 | 16.70 | 0.46 | 130.0 | ±9.6% |
| | | Y | 6.09 | 66.97 | 15.99 | | 130.0 | |
| | | Z | 6.00 | 67.26 | 15.37 | | 130.0 | |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | X | 6.25 | 67.63 | 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 | 16.67 | 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 | 16.66 | 0.46 | 130.0 | ±9.6% |
| | | Y | 6.02 | 66.62 | 16.34 | | 130.0 | |
| | | Z | 5.91 | 67.06 | 16.30 | | 130.0 | |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | X | 6.35 | 67.93 | 16.98 | 0.46 | 130.0 | ±9.6% |
| | | Y | 6.21 | 67.40 | 16.65 | | 130.0 | |
| | | Z | 6.05 | 67.49 | 16.53 | | 130.0 | |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.71 | 68.51 | 17.21 | 0.46 | 130.0 | ±9.6% |
| | | Y | 6.66 | 68.38 | 17.09 | | 130.0 | |
| | | Z | 6.25 | 67.70 | 16.59 | | 130.0 | |
| 10646-AAE | 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 | 122.54 | 40.63 | | 60.0 | |
| | | Z | 16.19 | 104.43 | 33.63 | | 60.0 | |
| 10647-AAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 80.46 | 139.77 | 45.45 | 9.30 | 60.0 | ±9.6% |
| | | Y | 36.72 | 121.64 | 40.90 | | 60.0 | |
| | | Z | 16.41 | 102.88 | 33.52 | | 60.0 | |
| 10648-AAA | CDMA2000 (1x Advanced) | X | 0.87 | 66.51 | 13.20 | 0.00 | 150.0 | ±9.6% |
| | | Y | 0.56 | 61.72 | 9.15 | | 150.0 | |
| | | Z | 0.69 | 54.60 | 11.24 | | 150.0 | |
| 10652-AAD | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | X | 4.31 | 65.00 | 17.78 | 2.23 | 80.0 | ±9.6% |
| | | Y | 3.89 | 67.35 | 16.71 | | 80.0 | |
| | | Z | 3.64 | 67.10 | 16.29 | | 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 | 16.97 | | 80.0 | |
| | | Z | 4.16 | 66.48 | 16.48 | | 80.0 | |
| 10654-AAD | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | X | 4.64 | 67.52 | 17.60 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.36 | 66.39 | 16.66 | | 80.0 | |
| | | Z | 4.14 | 66.16 | 16.50 | | 80.0 | |
| 10655-AAE | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | X | 4.89 | 67.54 | 17.64 | 2.23 | 80.0 | ±9.6% |
| | | Y | 4.42 | 66.40 | 16.92 | | 80.0 | |
| | | Z | 4.19 | 66.14 | 16.63 | | 80.0 | |
| 10658-AAA | Pulse Waveform (200Hz, 10%) | X | 100.00 | 119.60 | 30.15 | 10.00 | 50.0 | ±9.6% |
| | | Y | 27.27 | 97.34 | 24.81 | | 50.0 | |
| | | Z | 5.41 | 73.00 | 14.99 | | 50.0 | |
| 10659-AAA | Pulse Waveform (200Hz, 20%) | X | 100.00 | 114.06 | 27.78 | 6.00 | 60.0 | ±9.6% |
| | | Y | 100.00 | 111.98 | 26.70 | | 60.0 | |
| | | Z | 6.56 | 74.98 | 14.60 | | 60.0 | |

Certificate No: EX3-3938_Dct18

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.

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 | | 100.0 | |
| | | Z | 100.00 | 100.82 | 18.62 | | 100.0 | |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 127.89 | 28.95 | 0.97 | 120.0 | ± 9.6 % |
| | | Y | 3.43 | 74.94 | 10.65 | | 120.0 | |
| | | Z | 100.00 | 98.67 | 16.42 | | 120.0 | |
| 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 | |

² Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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.

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



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

Accreditation No.: **SCS 0108**

Client: **Auden**

Certificate No: **EX3-3801_Jun18**

CALIBRATION CERTIFICATE

Object: **EX3DV4 SN:3801**

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: **June 26, 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 (MATE codes for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|------------------------|
| Powermeter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-291 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-291 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: S5277 (20x) | 04-Apr-18 (No. 217-02662) | Apr-19 |
| Reference Probe ES3DV2 | SN: 3093 | 30-Dec-17 (No. ES3-3093, 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: EB41295874 | 05-Apr-18 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: MY41406087 | 05-Apr-18 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A | SN: 000110210 | 05-Apr-18 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C | SN: US3842J01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| NefcoX Analyzer HP 8733E | SN: 1R37394976 | 19-Jun-17 (in house check Oct-17) | In house check: Oct-18 |

Calibrated by: **Claudio Lanzani** (Name), **Laboratory Technician** (Function), *[Signature]* (Signature)

Approved by: **Kaja Polovic** (Name), **Technical Manager** (Function), *[Signature]* (Signature)

Issued: **June 27, 2018**

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 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.

**Calibration Laboratory of
 Schmid & Partner
 Engineering AG**
 Zeughausstrasse 4, 8004 Zurich, Switzerland



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

Accreditation No.: SCS 0108

Glossary:

| | |
|-----------------------|---|
| TSL | tissue simulating liquid |
| NORM _{x,y,z} | sensitivity in free space |
| ConvF | sensitivity in TSL / NORM _{x,y,z} |
| DCP | diode compression point |
| CF | crest factor (1/duy, cycle) of the RF signal |
| A, B, C, D | modulation dependent linearization parameters |
| Polarization ϕ | rotation around probe axis |
| Polarization θ | θ relation around an axis that is in the plane normal to probe axis (at measurement center). i.e., $\theta = 0$ 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 Peak 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 hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2018
- 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
- KQB 885664 "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}: Assessed for E-field polarization ($\theta = 0$) ($f \leq 900$ MHz in TEM-cell) ($f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E-field uncertainty inside TSL (see below ConvF).
- NORM_{x,y,z} * ConvF = NORM_{x,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.
- DCP_{x,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 characteristics.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; V_{f,x,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 $f \leq 800$ 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 NORM_{x,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 ± 80 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe side). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMs (no uncertainty required).

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.

Probe EX3DV4

SN:3801

Manufactured: April 5, 2011
Calibrated: June 26, 2018

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

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.

EX3DV4- SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---|----------|----------|----------|-----------|
| Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A | 0.53 | 0.57 | 0.52 | ± 10.1 % |
| DCP (mV) ^B | 101.8 | 101.3 | 96.8 | |

Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB√μV | C | D dB | VR mV | Unc ^C (k=2) |
|-----|---------------------------|---|---------|------------|-----|---------|----------|---------------------------|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 166.4 | ±3.0 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 173.4 | |
| | | Z | 0.0 | 0.0 | 1.0 | | 164.7 | |

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

| | C1 fF | C2 fF | a V ⁻¹ | T1 ms.V ⁻² | T2 ms.V ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | T6 |
|---|----------|----------|----------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|-------|
| X | 43.02 | 327.9 | 36.76 | 18.19 | 0.894 | 5.085 | 0.000 | 0.523 | 1.011 |
| Y | 48.75 | 365.0 | 35.77 | 24.10 | 0.825 | 5.100 | 0.855 | 0.468 | 1.008 |
| Z | 43.58 | 332.6 | 36.84 | 15.47 | 0.783 | 5.090 | 0.000 | 0.516 | 1.010 |

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%.

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

^B Numerical linearization parameter; uncertainty not required.

^C Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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.

EX3DV4- SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity ^e | Conductivity (S/m) ^f | ConvF X | ConvF Y | ConvF Z | Alpha ^g | Depth ^h (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 150 | 52.3 | 0.76 | 11.05 | 11.05 | 11.05 | 0.00 | 1.00 | ± 13.3 % |
| 450 | 43.5 | 0.87 | 9.90 | 9.90 | 9.90 | 0.15 | 1.30 | ± 13.3 % |
| 750 | 41.9 | 0.89 | 9.50 | 9.50 | 9.50 | 0.43 | 0.96 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.08 | 9.08 | 9.08 | 0.51 | 0.85 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 8.95 | 8.95 | 8.95 | 0.51 | 0.87 | ± 12.0 % |
| 1450 | 40.5 | 1.20 | 8.17 | 8.17 | 8.17 | 0.33 | 0.80 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.10 | 8.10 | 8.10 | 0.39 | 0.84 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 7.78 | 7.78 | 7.78 | 0.36 | 0.64 | ± 12.0 % |
| 2100 | 39.8 | 1.49 | 7.90 | 7.90 | 7.90 | 0.35 | 0.80 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.08 | 7.08 | 7.08 | 0.35 | 0.86 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 6.94 | 6.94 | 6.94 | 0.40 | 0.86 | ± 12.0 % |
| 3500 | 37.9 | 2.91 | 6.88 | 6.88 | 6.88 | 0.25 | 1.20 | ± 13.1 % |
| 5200 | 36.0 | 4.66 | 4.93 | 4.93 | 4.93 | 0.40 | 1.80 | ± 13.1 % |
| 5300 | 35.9 | 4.76 | 4.70 | 4.70 | 4.70 | 0.40 | 1.80 | ± 13.1 % |
| 5500 | 35.5 | 4.96 | 4.82 | 4.82 | 4.82 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.69 | 4.69 | 4.69 | 0.40 | 1.80 | ± 13.1 % |
| 5800 | 35.3 | 5.27 | 4.61 | 4.61 | 4.61 | 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.

^e 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.

^h 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.

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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Calibrating Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^c | Relative Permittivity ^e | Conductivity (S/m) ^f | ConvF X | ConvF Y | ConvF Z | Alpha ^g | Depth ^h (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 150 | 61.9 | 0.80 | 10.74 | 10.74 | 10.74 | 0.00 | 1.00 | ± 13.3 % |
| 450 | 56.7 | 0.94 | 10.16 | 10.16 | 10.16 | 0.09 | 1.25 | ± 13.3 % |
| 750 | 55.5 | 0.96 | 9.19 | 9.19 | 9.19 | 0.49 | 0.83 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 9.04 | 9.04 | 9.04 | 0.53 | 0.80 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 9.01 | 9.01 | 9.01 | 0.44 | 0.89 | ± 12.0 % |
| 1450 | 54.0 | 1.30 | 7.93 | 7.93 | 7.93 | 0.33 | 0.80 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 7.68 | 7.68 | 7.68 | 0.49 | 0.82 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 7.37 | 7.37 | 7.37 | 0.38 | 0.66 | ± 12.0 % |
| 2100 | 53.2 | 1.62 | 7.79 | 7.79 | 7.79 | 0.42 | 0.80 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.19 | 7.19 | 7.19 | 0.41 | 0.84 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 7.01 | 7.01 | 7.01 | 0.30 | 0.99 | ± 12.0 % |
| 3500 | 51.3 | 3.31 | 6.90 | 6.90 | 6.90 | 0.25 | 1.25 | ± 13.1 % |
| 5200 | 49.0 | 5.30 | 4.23 | 4.23 | 4.23 | 0.50 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.09 | 4.09 | 4.09 | 0.50 | 1.90 | ± 13.1 % |
| 5500 | 48.6 | 5.65 | 3.94 | 3.94 | 3.94 | 0.50 | 1.90 | ± 13.1 % |
| 5600 | 48.5 | 5.77 | 3.80 | 3.80 | 3.80 | 0.50 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 3.95 | 3.95 | 3.95 | 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 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.

^e 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.

^g 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.

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.

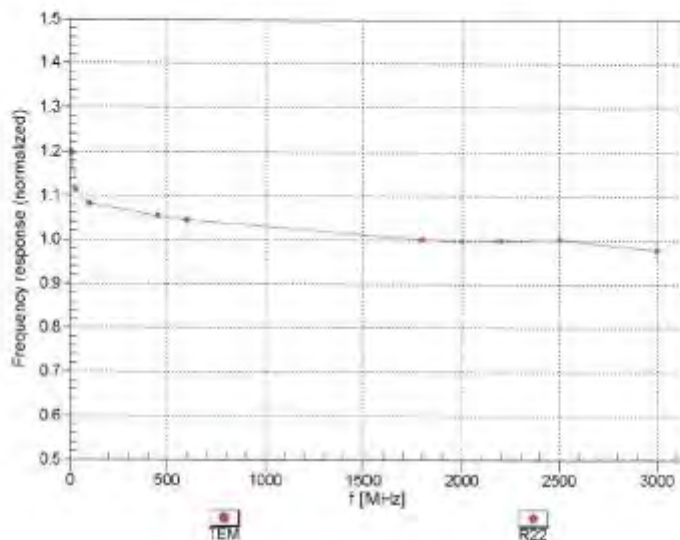
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4-SN:3801

June 26, 2018

Frequency Response of E-Field (TEM-Cell:if1110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 5.3\%$ (k=2)

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.

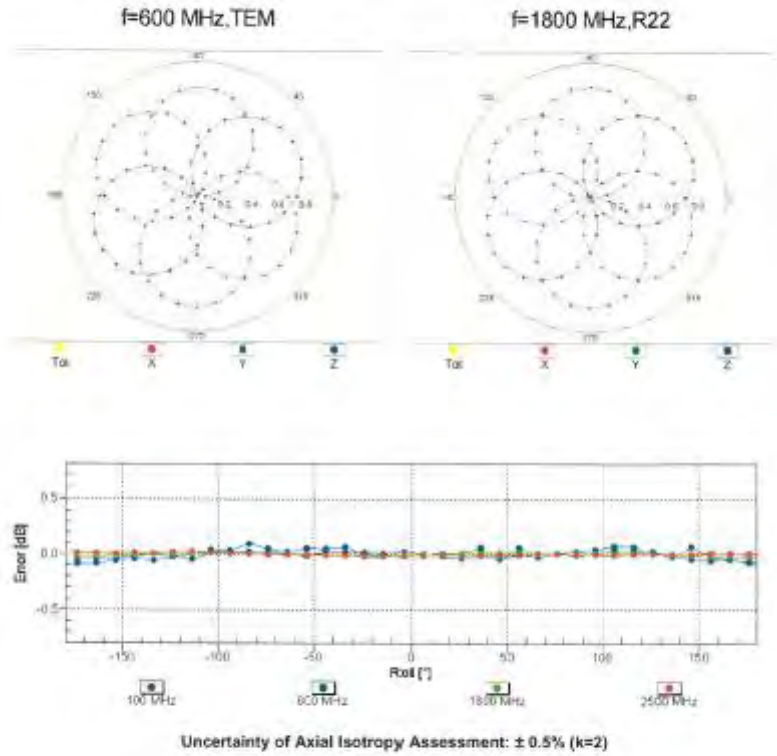
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4- SN:3801

June 26, 2018

Receiving Pattern (ϕ), $\theta = 0^\circ$



Certificate No: EX3-3801_Jun18

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.

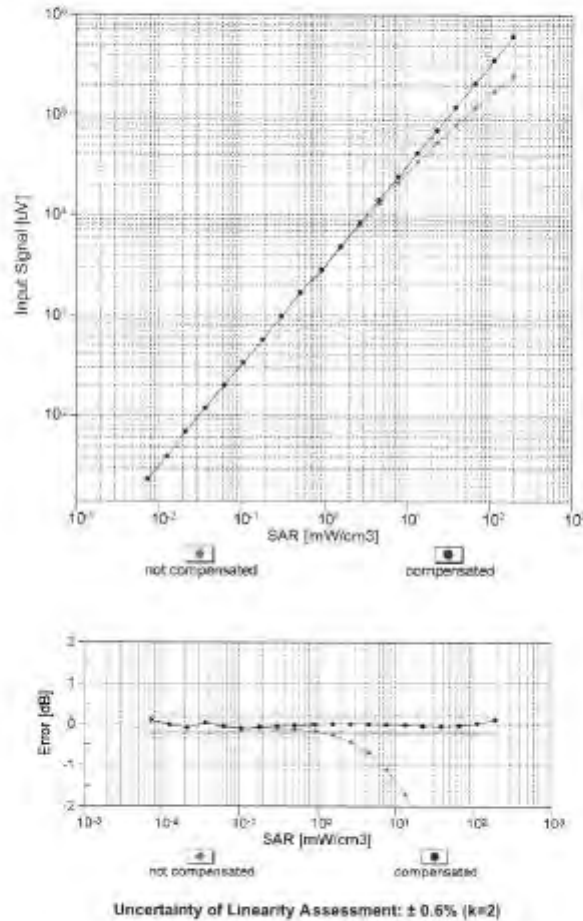
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

EX3DV4-SN:3801

June 26, 2018

Dynamic Range f(SAR_{head}) (TEM cell, f_{eval}= 1900 MHz)



Certificate No: EX3-3801, Jun18

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.

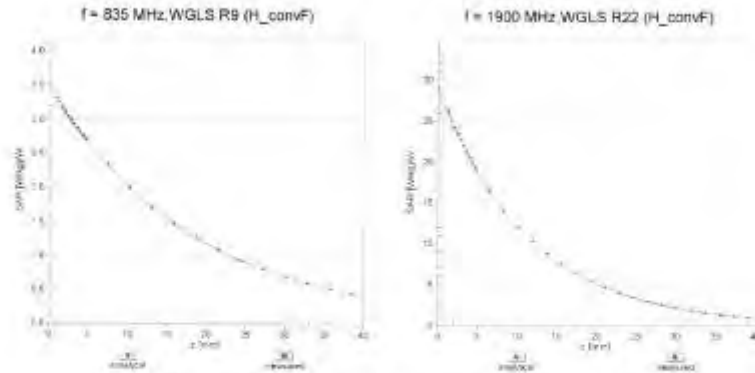
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at 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.

EX3DV4- SN:3801

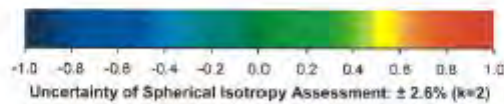
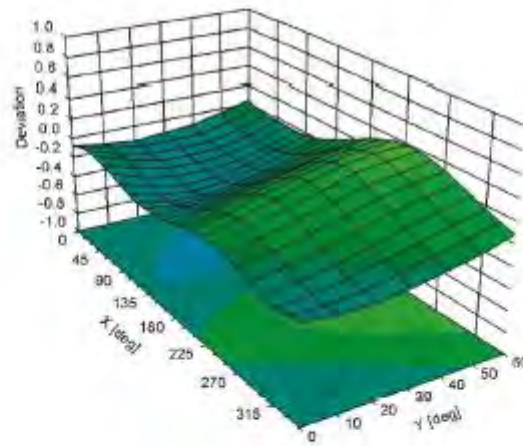
June 26, 2018

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , δ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

Certificate No: EX3-3801_Jun18

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 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.

EX3DV4- SN:3801

June 26, 2018

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3801

Other Probe Parameters

| | |
|---|------------|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | 126.3 |
| 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 |

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.

EX3DV4- SN:3801

June 26, 2018

Appendix: Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB·μV | C | D dB | VR mV | Max Unc ² (k=2) |
|---------------|---|---|---------|------------|-------|---------|----------|----------------------------------|
| D | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 166.4 | ± 3.0 % |
| | | Y | 0.00 | 0.00 | 1.00 | | 173.4 | |
| | | Z | 0.00 | 0.00 | 1.00 | | 164.7 | |
| 10010- CAA | SAR Validation (Square, 100ms, 10ms) | X | 3.37 | 69.78 | 12.74 | 10.00 | 20.0 | ± 9.6 % |
| | | Y | 6.44 | 76.86 | 15.76 | | 20.0 | |
| | | Z | 3.21 | 69.39 | 12.43 | | 20.0 | |
| 10011- CAB | UMTS-FDD (WCDMA) | X | 0.83 | 64.38 | 12.95 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.99 | 67.13 | 14.98 | | 150.0 | |
| | | Z | 0.83 | 64.35 | 12.93 | | 150.0 | |
| 10012- CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | X | 1.10 | 62.97 | 14.26 | 0.41 | 150.0 | ± 9.6 % |
| | | Y | 1.20 | 64.42 | 15.48 | | 150.0 | |
| | | Z | 1.09 | 62.83 | 14.21 | | 150.0 | |
| 10013- CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.80 | 66.58 | 16.95 | 1.46 | 150.0 | ± 9.6 % |
| | | Y | 4.93 | 66.87 | 17.23 | | 150.0 | |
| | | Z | 4.79 | 66.54 | 16.94 | | 150.0 | |
| 10021- DAC | GSM-FDD (TDMA, GMSK) | X | 100.00 | 116.48 | 28.92 | 9.39 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 116.87 | 29.39 | | 50.0 | |
| | | Z | 100.00 | 116.44 | 28.77 | | 50.0 | |
| 10023- DAC | GPRS-FDD (TDMA, GMSK, TN 0) | X | 100.00 | 116.20 | 28.84 | 9.57 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 116.71 | 29.35 | | 50.0 | |
| | | Z | 100.00 | 116.08 | 28.68 | | 50.0 | |
| 10024- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | X | 100.00 | 113.53 | 26.55 | 6.56 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 114.45 | 27.34 | | 60.0 | |
| | | Z | 100.00 | 114.34 | 26.74 | | 60.0 | |
| 10025- DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | X | 4.69 | 72.18 | 26.92 | 12.57 | 50.0 | ± 9.6 % |
| | | Y | 15.97 | 110.85 | 44.06 | | 50.0 | |
| | | Z | 4.44 | 71.01 | 26.44 | | 50.0 | |
| 10026- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | X | 11.01 | 95.24 | 33.64 | 9.56 | 60.0 | ± 9.6 % |
| | | Y | 27.30 | 117.67 | 41.25 | | 60.0 | |
| | | Z | 9.87 | 93.32 | 33.15 | | 60.0 | |
| 10027- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | X | 100.00 | 112.38 | 25.28 | 4.80 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 114.07 | 26.45 | | 80.0 | |
| | | Z | 100.00 | 113.67 | 25.65 | | 80.0 | |
| 10028- DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | X | 100.00 | 111.82 | 24.34 | 3.55 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 114.73 | 26.07 | | 100.0 | |
| | | Z | 100.00 | 113.39 | 24.82 | | 100.0 | |
| 10029- DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | X | 6.96 | 84.53 | 28.40 | 7.80 | 80.0 | ± 9.6 % |
| | | Y | 12.11 | 97.00 | 33.17 | | 80.0 | |
| | | Z | 6.28 | 82.79 | 27.89 | | 80.0 | |
| 10030- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | X | 100.00 | 111.17 | 25.02 | 5.30 | 70.0 | ± 9.6 % |
| | | Y | 100.00 | 112.86 | 26.19 | | 70.0 | |
| | | Z | 100.00 | 112.10 | 25.26 | | 70.0 | |
| 10031- CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | X | 100.00 | 106.29 | 20.26 | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 113.55 | 24.19 | | 100.0 | |
| | | Z | 100.00 | 106.78 | 20.26 | | 100.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|--------|--------|-------|-------|-------|---------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | X | 100.00 | 101.22 | 17.75 | 1.17 | 100.0 | ± 9.6 % | |
| | | Y | 100.00 | 116.20 | 24.29 | | | 100.0 | |
| | | Z | 100.00 | 100.56 | 17.31 | | | 100.0 | |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1) | X | 18.92 | 99.43 | 26.35 | 5.30 | 70.0 | ± 9.6 % | |
| | | Y | 100.00 | 126.11 | 33.82 | | | 70.0 | |
| | | Z | 20.67 | 102.09 | 27.36 | | | 70.0 | |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3) | X | 3.08 | 75.57 | 16.71 | | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 9.98 | 92.25 | 23.17 | | | 100.0 | |
| | | Z | 2.90 | 75.55 | 16.88 | | | 100.0 | |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | X | 1.83 | 70.29 | 14.26 | 1.17 | 100.0 | ± 9.6 % | |
| | | Y | 4.00 | 80.98 | 19.27 | | | 100.0 | |
| | | Z | 1.74 | 70.11 | 14.32 | | | 100.0 | |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | X | 30.39 | 106.85 | 28.45 | 5.30 | 70.0 | ± 9.6 % | |
| | | Y | 100.00 | 126.44 | 33.98 | | | 70.0 | |
| | | Z | 35.81 | 110.82 | 29.76 | | | 70.0 | |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | X | 2.84 | 74.70 | 16.36 | | 1.88 | 100.0 | ± 9.6 % |
| | | Y | 8.90 | 90.73 | 22.69 | | | 100.0 | |
| | | Z | 2.69 | 74.65 | 16.52 | | | 100.0 | |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | X | 1.85 | 70.62 | 14.50 | 1.17 | 100.0 | ± 9.6 % | |
| | | Y | 4.14 | 81.72 | 19.65 | | | 100.0 | |
| | | Z | 1.75 | 70.43 | 14.57 | | | 100.0 | |
| 10039-CAB | CDMA2000 (1xRTT, RC1) | X | 1.12 | 65.78 | 11.74 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 1.72 | 71.14 | 15.18 | | | 150.0 | |
| | | Z | 1.13 | 65.83 | 11.81 | | | 150.0 | |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 111.21 | 25.70 | 7.78 | 50.0 | ± 9.6 % | |
| | | Y | 100.00 | 112.25 | 26.50 | | | 50.0 | |
| | | Z | 100.00 | 111.42 | 25.85 | | | 50.0 | |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | X | 0.04 | 119.18 | 11.18 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 0.01 | 110.75 | 9.59 | | | 150.0 | |
| | | Z | 0.04 | 119.30 | 10.88 | | | 150.0 | |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | X | 100.00 | 116.95 | 30.57 | 13.80 | 25.0 | ± 9.6 % | |
| | | Y | 100.00 | 118.90 | 31.58 | | | 25.0 | |
| | | Z | 100.00 | 115.50 | 29.86 | | | 25.0 | |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | X | 100.00 | 116.02 | 29.07 | 10.79 | 40.0 | ± 9.6 % | |
| | | Y | 100.00 | 116.75 | 29.64 | | | 40.0 | |
| | | Z | 100.00 | 115.45 | 28.70 | | | 40.0 | |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | X | 26.45 | 101.81 | 27.79 | 9.03 | 50.0 | ± 9.6 % | |
| | | Y | 95.09 | 123.36 | 33.94 | | | 50.0 | |
| | | Z | 35.26 | 107.00 | 29.30 | | | 50.0 | |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | X | 5.27 | 78.98 | 25.36 | 6.55 | 100.0 | ± 9.6 % | |
| | | Y | 7.85 | 87.34 | 26.81 | | | 100.0 | |
| | | Z | 4.82 | 77.53 | 24.91 | | | 100.0 | |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | X | 1.16 | 64.21 | 14.95 | 0.61 | 110.0 | ± 9.6 % | |
| | | Y | 1.31 | 66.27 | 16.46 | | | 110.0 | |
| | | Z | 1.14 | 63.97 | 14.87 | | | 110.0 | |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | X | 8.60 | 97.03 | 24.51 | 1.30 | 110.0 | ± 9.6 % | |
| | | Y | 100.00 | 133.40 | 34.07 | | | 110.0 | |
| | | Z | 7.00 | 95.42 | 24.31 | | | 110.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|-------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | X | 3.49 | 81.85 | 22.13 | 2.04 | 110.0 | ± 9.6 % |
| | | Y | 10.88 | 100.68 | 28.62 | | 110.0 | |
| | | Z | 3.06 | 80.49 | 21.85 | | 110.0 | |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps) | X | 4.56 | 86.41 | 18.26 | 0.49 | 100.0 | ± 9.6 % |
| | | Y | 4.69 | 86.72 | 16.55 | | 100.0 | |
| | | Z | 4.56 | 86.38 | 16.26 | | 100.0 | |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | X | 4.58 | 86.53 | 16.38 | 0.72 | 100.0 | ± 9.6 % |
| | | Y | 4.72 | 86.85 | 16.68 | | 100.0 | |
| | | Z | 4.58 | 86.50 | 16.38 | | 100.0 | |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | X | 4.86 | 86.80 | 16.63 | 0.86 | 100.0 | ± 9.6 % |
| | | Y | 5.01 | 87.14 | 16.92 | | 100.0 | |
| | | Z | 4.86 | 86.78 | 16.63 | | 100.0 | |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | X | 4.75 | 86.74 | 16.76 | 1.21 | 100.0 | ± 9.6 % |
| | | Y | 4.90 | 87.11 | 17.07 | | 100.0 | |
| | | Z | 4.75 | 86.71 | 16.76 | | 100.0 | |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | X | 4.77 | 86.80 | 16.95 | 1.46 | 100.0 | ± 9.6 % |
| | | Y | 4.93 | 87.18 | 17.28 | | 100.0 | |
| | | Z | 4.77 | 86.76 | 16.95 | | 100.0 | |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | X | 5.09 | 87.08 | 17.46 | 2.04 | 100.0 | ± 9.6 % |
| | | Y | 5.24 | 87.39 | 17.76 | | 100.0 | |
| | | Z | 5.08 | 87.03 | 17.46 | | 100.0 | |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | X | 5.14 | 87.13 | 17.70 | 2.55 | 100.0 | ± 9.6 % |
| | | Y | 5.32 | 87.54 | 18.04 | | 100.0 | |
| | | Z | 5.13 | 87.08 | 17.69 | | 100.0 | |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | X | 5.22 | 87.17 | 17.91 | 2.67 | 100.0 | ± 9.6 % |
| | | Y | 5.40 | 87.53 | 18.24 | | 100.0 | |
| | | Z | 5.22 | 87.11 | 17.90 | | 100.0 | |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | X | 4.91 | 86.72 | 17.29 | 1.99 | 100.0 | ± 9.6 % |
| | | Y | 5.04 | 87.03 | 17.56 | | 100.0 | |
| | | Z | 4.90 | 86.67 | 17.29 | | 100.0 | |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.90 | 87.07 | 17.53 | 2.30 | 100.0 | ± 9.6 % |
| | | Y | 5.05 | 87.46 | 17.86 | | 100.0 | |
| | | Z | 4.89 | 87.01 | 17.52 | | 100.0 | |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.99 | 87.32 | 17.91 | 2.83 | 100.0 | ± 9.6 % |
| | | Y | 5.14 | 87.73 | 18.26 | | 100.0 | |
| | | Z | 4.97 | 87.24 | 17.90 | | 100.0 | |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.00 | 87.29 | 18.10 | 3.30 | 100.0 | ± 9.6 % |
| | | Y | 5.15 | 87.70 | 18.46 | | 100.0 | |
| | | Z | 4.97 | 87.19 | 18.08 | | 100.0 | |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.05 | 87.46 | 18.45 | 3.82 | 90.0 | ± 9.6 % |
| | | Y | 5.22 | 87.96 | 18.86 | | 90.0 | |
| | | Z | 5.02 | 87.34 | 18.42 | | 90.0 | |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.08 | 87.31 | 18.60 | 4.15 | 90.0 | ± 9.6 % |
| | | Y | 5.23 | 87.75 | 18.99 | | 90.0 | |
| | | Z | 5.05 | 87.18 | 18.57 | | 90.0 | |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.11 | 87.39 | 18.71 | 4.30 | 90.0 | ± 9.6 % |
| | | Y | 5.26 | 87.83 | 19.09 | | 90.0 | |
| | | Z | 5.08 | 87.25 | 18.67 | | 90.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3) | X | 0.58 | 62.15 | 9.26 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.79 | 65.29 | 12.01 | | 150.0 | |
| | | Z | 0.59 | 62.18 | 9.31 | | 150.0 | |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, Pi4-DQPSK, Fullrate) | X | 0.89 | 60.00 | 5.00 | 4.77 | 80.0 | ± 9.6 % |
| | | Y | 1.06 | 60.10 | 5.42 | | 80.0 | |
| | | Z | 0.82 | 60.00 | 4.83 | | 80.0 | |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | X | 100.00 | 113.61 | 26.61 | 6.56 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 114.52 | 27.40 | | 60.0 | |
| | | Z | 100.00 | 114.43 | 26.80 | | 60.0 | |
| 10097-CAB | UMTS-FDD (HSDPA) | X | 1.61 | 65.84 | 14.20 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.79 | 67.45 | 15.49 | | 150.0 | |
| | | Z | 1.61 | 65.80 | 14.19 | | 150.0 | |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2) | X | 1.57 | 65.77 | 14.15 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 1.75 | 67.41 | 15.45 | | 150.0 | |
| | | Z | 1.57 | 65.73 | 14.14 | | 150.0 | |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | X | 11.08 | 95.35 | 33.68 | 9.56 | 60.0 | ± 9.6 % |
| | | Y | 27.49 | 117.79 | 41.28 | | 60.0 | |
| | | Z | 9.94 | 93.45 | 33.20 | | 60.0 | |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 2.79 | 68.48 | 15.57 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.10 | 70.20 | 16.56 | | 150.0 | |
| | | Z | 2.79 | 68.46 | 15.56 | | 150.0 | |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 3.04 | 66.54 | 15.23 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.21 | 67.43 | 15.84 | | 150.0 | |
| | | Z | 3.04 | 66.53 | 15.23 | | 150.0 | |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 3.15 | 66.58 | 15.37 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 3.32 | 67.39 | 15.93 | | 150.0 | |
| | | Z | 3.15 | 66.57 | 15.36 | | 150.0 | |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | X | 6.94 | 77.02 | 20.93 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 8.30 | 79.59 | 21.96 | | 65.0 | |
| | | Z | 6.60 | 76.51 | 20.82 | | 65.0 | |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | X | 6.60 | 74.37 | 20.62 | 3.96 | 65.0 | ± 9.6 % |
| | | Y | 7.74 | 76.89 | 21.76 | | 65.0 | |
| | | Z | 6.34 | 73.90 | 20.51 | | 65.0 | |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | X | 6.43 | 73.76 | 20.67 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.21 | 75.46 | 21.47 | | 65.0 | |
| | | Z | 6.12 | 73.09 | 20.46 | | 65.0 | |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 2.42 | 67.75 | 15.36 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.70 | 69.42 | 16.38 | | 150.0 | |
| | | Z | 2.42 | 67.73 | 15.35 | | 150.0 | |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 2.68 | 66.30 | 15.02 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.87 | 67.25 | 15.73 | | 150.0 | |
| | | Z | 2.69 | 66.28 | 15.02 | | 150.0 | |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X | 1.93 | 66.75 | 14.78 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.19 | 68.51 | 15.97 | | 150.0 | |
| | | Z | 1.93 | 66.73 | 14.77 | | 150.0 | |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 2.36 | 66.83 | 15.03 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 2.58 | 67.98 | 15.96 | | 150.0 | |
| | | Z | 2.36 | 66.80 | 15.03 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|--|---|------|-------|-------|-------|-------|---------|--|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X | 2.81 | 66.38 | 15.13 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.99 | 67.24 | 15.78 | | 150.0 | |
| | | | Z | 2.82 | 66.36 | 15.13 | | 150.0 | |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | X | 2.51 | 67.07 | 15.23 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.73 | 68.12 | 16.09 | | 150.0 | |
| | | | Z | 2.52 | 67.04 | 15.23 | | 150.0 | |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | X | 4.99 | 66.82 | 16.16 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.10 | 67.13 | 16.38 | | 150.0 | |
| | | | Z | 5.00 | 66.82 | 16.16 | | 150.0 | |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | X | 5.25 | 66.91 | 16.21 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.40 | 67.27 | 16.48 | | 150.0 | |
| | | | Z | 5.26 | 66.91 | 16.22 | | 150.0 | |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.07 | 66.99 | 16.17 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.20 | 67.33 | 16.40 | | 150.0 | |
| | | | Z | 5.08 | 66.99 | 16.17 | | 150.0 | |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | X | 4.96 | 66.69 | 16.10 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.07 | 67.00 | 16.33 | | 150.0 | |
| | | | Z | 4.96 | 66.68 | 16.10 | | 150.0 | |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) | X | 5.33 | 67.12 | 16.33 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.48 | 67.48 | 16.57 | | 150.0 | |
| | | | Z | 5.34 | 67.12 | 16.33 | | 150.0 | |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) | X | 5.06 | 66.96 | 16.16 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.17 | 67.27 | 16.38 | | 150.0 | |
| | | | Z | 5.07 | 66.96 | 16.16 | | 150.0 | |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | X | 3.18 | 66.58 | 15.28 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.35 | 67.40 | 15.85 | | 150.0 | |
| | | | Z | 3.18 | 66.57 | 15.28 | | 150.0 | |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | X | 3.31 | 66.74 | 15.49 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.48 | 67.49 | 16.02 | | 150.0 | |
| | | | Z | 3.31 | 66.73 | 15.48 | | 150.0 | |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | X | 1.67 | 66.36 | 14.09 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 1.96 | 66.43 | 15.60 | | 150.0 | |
| | | | Z | 1.68 | 66.34 | 14.10 | | 150.0 | |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | X | 2.13 | 66.92 | 14.26 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.43 | 68.64 | 15.63 | | 150.0 | |
| | | | Z | 2.14 | 66.91 | 14.27 | | 150.0 | |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | X | 1.95 | 64.98 | 12.78 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.21 | 66.44 | 14.07 | | 150.0 | |
| | | | Z | 1.96 | 64.98 | 12.81 | | 150.0 | |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | X | 0.89 | 61.84 | 8.95 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 1.18 | 64.72 | 11.53 | | 150.0 | |
| | | | Z | 0.90 | 61.92 | 9.05 | | 150.0 | |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 1.50 | 63.67 | 9.83 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.10 | 66.97 | 12.06 | | 150.0 | |
| | | | Z | 1.48 | 63.51 | 9.75 | | 150.0 | |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 1.66 | 64.83 | 10.55 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.53 | 69.23 | 13.24 | | 150.0 | |
| | | | Z | 1.63 | 64.59 | 10.43 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2016

| | | | | | | | | | |
|-----------|--|---|------|-------|-------|------|-------|---------|--|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | X | 2.69 | 66.35 | 15.07 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.68 | 67.31 | 15.77 | | | 150.0 | |
| | | Z | 2.70 | 66.34 | 15.06 | | | 150.0 | |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | X | 2.82 | 66.43 | 15.17 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 3.00 | 67.30 | 15.82 | | | 150.0 | |
| | | Z | 2.82 | 66.41 | 15.17 | | | 150.0 | |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | X | 7.29 | 79.43 | 21.93 | 3.98 | 65.0 | ± 9.6 % | |
| | | Y | 9.32 | 83.12 | 23.40 | | | 65.0 | |
| | | Z | 6.94 | 78.98 | 21.87 | | | 65.0 | |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | X | 6.14 | 74.36 | 20.27 | 3.98 | 65.0 | ± 9.6 % | |
| | | Y | 7.37 | 77.20 | 21.60 | | | 65.0 | |
| | | Z | 5.87 | 73.88 | 20.17 | | | 65.0 | |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | X | 6.57 | 75.50 | 21.13 | 3.98 | 65.0 | ± 9.6 % | |
| | | Y | 7.80 | 78.18 | 22.37 | | | 65.0 | |
| | | Z | 6.29 | 74.99 | 21.02 | | | 65.0 | |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X | 1.96 | 67.07 | 14.99 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.23 | 68.90 | 16.22 | | | 150.0 | |
| | | Z | 1.97 | 67.05 | 14.99 | | | 150.0 | |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 2.36 | 66.85 | 15.05 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.58 | 68.00 | 15.98 | | | 150.0 | |
| | | Z | 2.37 | 66.82 | 15.05 | | | 150.0 | |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | X | 1.49 | 66.02 | 13.56 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 1.80 | 68.47 | 15.37 | | | 150.0 | |
| | | Z | 1.50 | 66.01 | 13.58 | | | 150.0 | |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | X | 1.74 | 65.03 | 12.45 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.04 | 66.94 | 14.07 | | | 150.0 | |
| | | Z | 1.75 | 65.04 | 12.50 | | | 150.0 | |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | X | 2.52 | 67.13 | 15.27 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.73 | 68.18 | 16.14 | | | 150.0 | |
| | | Z | 2.52 | 67.10 | 15.27 | | | 150.0 | |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 1.82 | 65.36 | 12.68 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.15 | 67.39 | 14.35 | | | 150.0 | |
| | | Z | 1.83 | 65.38 | 12.73 | | | 150.0 | |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | X | 2.49 | 67.29 | 15.33 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.71 | 68.48 | 16.17 | | | 150.0 | |
| | | Z | 2.50 | 67.27 | 15.32 | | | 150.0 | |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | X | 2.71 | 66.34 | 15.05 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 2.90 | 67.23 | 15.75 | | | 150.0 | |
| | | Z | 2.71 | 66.32 | 15.05 | | | 150.0 | |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | X | 2.82 | 66.54 | 15.20 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 3.01 | 67.37 | 15.86 | | | 150.0 | |
| | | Z | 2.82 | 66.52 | 15.19 | | | 150.0 | |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 3.40 | 69.00 | 18.89 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 3.70 | 70.05 | 19.33 | | | 150.0 | |
| | | Z | 3.38 | 68.85 | 18.78 | | | 150.0 | |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.04 | 71.48 | 19.17 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 4.70 | 73.38 | 19.92 | | | 150.0 | |
| | | Z | 4.01 | 71.26 | 19.04 | | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.52 | 73.94 | 20.64 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 5.25 | 75.73 | 21.26 | | 150.0 | |
| | | Z | 4.48 | 73.68 | 20.49 | | 150.0 | |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X | 2.77 | 67.75 | 18.34 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.18 | 70.11 | 19.36 | | 150.0 | |
| | | Z | 2.75 | 67.60 | 18.22 | | 150.0 | |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | X | 3.59 | 72.80 | 20.42 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.67 | 76.93 | 21.92 | | 150.0 | |
| | | Z | 3.54 | 72.56 | 20.26 | | 150.0 | |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 2.99 | 69.00 | 17.71 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.76 | 72.40 | 19.07 | | 150.0 | |
| | | Z | 2.96 | 68.80 | 17.56 | | 150.0 | |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | X | 9.91 | 94.44 | 29.85 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 26.96 | 112.91 | 35.22 | | 65.0 | |
| | | Z | 8.39 | 91.68 | 29.04 | | 65.0 | |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | X | 17.47 | 101.05 | 30.02 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 73.48 | 124.50 | 35.94 | | 65.0 | |
| | | Z | 15.60 | 99.60 | 29.69 | | 65.0 | |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | X | 14.33 | 96.21 | 27.96 | 6.02 | 65.0 | ± 9.6 % |
| | | Y | 38.46 | 111.23 | 31.91 | | 65.0 | |
| | | Z | 12.63 | 94.55 | 27.54 | | 65.0 | |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 2.74 | 67.47 | 18.09 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.14 | 69.79 | 19.11 | | 150.0 | |
| | | Z | 2.72 | 67.32 | 17.97 | | 150.0 | |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | X | 3.59 | 72.83 | 20.43 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.68 | 76.96 | 21.93 | | 150.0 | |
| | | Z | 3.65 | 72.58 | 20.27 | | 150.0 | |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | X | 2.76 | 67.60 | 18.18 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.17 | 69.94 | 19.20 | | 150.0 | |
| | | Z | 2.74 | 67.46 | 18.06 | | 150.0 | |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | X | 3.56 | 72.65 | 20.32 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.63 | 76.72 | 21.81 | | 150.0 | |
| | | Z | 3.52 | 72.40 | 20.17 | | 150.0 | |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | X | 3.26 | 70.78 | 18.93 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.17 | 74.53 | 20.35 | | 150.0 | |
| | | Z | 3.22 | 70.55 | 18.78 | | 150.0 | |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | X | 2.99 | 68.95 | 17.67 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.75 | 72.33 | 19.02 | | 150.0 | |
| | | Z | 2.95 | 68.75 | 17.52 | | 150.0 | |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | X | 2.75 | 67.59 | 18.17 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.17 | 69.93 | 19.20 | | 150.0 | |
| | | Z | 2.73 | 67.44 | 18.06 | | 150.0 | |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 3.56 | 72.62 | 20.31 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 4.62 | 76.70 | 21.80 | | 150.0 | |
| | | Z | 3.51 | 72.38 | 20.16 | | 150.0 | |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | X | 2.96 | 68.93 | 17.66 | 3.01 | 150.0 | ± 9.6 % |
| | | Y | 3.74 | 72.31 | 19.01 | | 150.0 | |
| | | Z | 2.95 | 68.73 | 17.51 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3601

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|---------|--|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | X | 2.76 | 67.63 | 18.19 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 3.18 | 69.97 | 19.22 | | | 150.0 | |
| | | Z | 2.74 | 67.48 | 18.08 | | | 150.0 | |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | X | 3.58 | 72.69 | 20.35 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 4.64 | 76.77 | 21.83 | | | 150.0 | |
| | | Z | 3.53 | 72.45 | 20.19 | | | 150.0 | |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | X | 3.00 | 68.99 | 17.69 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 3.76 | 72.38 | 19.04 | | | 150.0 | |
| | | Z | 2.96 | 68.79 | 17.54 | | | 150.0 | |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | X | 2.77 | 67.68 | 18.26 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 3.19 | 70.03 | 19.28 | | | 150.0 | |
| | | Z | 2.75 | 67.54 | 18.15 | | | 150.0 | |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | X | 3.68 | 73.28 | 20.71 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 4.80 | 77.49 | 22.22 | | | 150.0 | |
| | | Z | 3.63 | 73.04 | 20.56 | | | 150.0 | |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | X | 3.05 | 69.36 | 17.95 | 3.01 | 150.0 | ± 9.6 % | |
| | | Y | 3.85 | 72.83 | 19.33 | | | 150.0 | |
| | | Z | 3.02 | 69.15 | 17.80 | | | 150.0 | |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | X | 4.37 | 66.23 | 15.79 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.50 | 66.54 | 16.08 | | | 150.0 | |
| | | Z | 4.38 | 66.22 | 15.79 | | | 150.0 | |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.53 | 66.52 | 15.92 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.67 | 66.86 | 16.20 | | | 150.0 | |
| | | Z | 4.54 | 66.50 | 15.92 | | | 150.0 | |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.57 | 66.55 | 15.95 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.71 | 66.89 | 16.22 | | | 150.0 | |
| | | Z | 4.58 | 66.54 | 15.94 | | | 150.0 | |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | X | 4.37 | 66.26 | 15.80 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.50 | 66.60 | 16.10 | | | 150.0 | |
| | | Z | 4.38 | 66.25 | 15.80 | | | 150.0 | |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | X | 4.54 | 66.53 | 15.94 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.68 | 66.88 | 16.22 | | | 150.0 | |
| | | Z | 4.55 | 66.52 | 15.93 | | | 150.0 | |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | X | 4.57 | 66.56 | 15.96 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.71 | 66.90 | 16.23 | | | 150.0 | |
| | | Z | 4.58 | 66.55 | 15.95 | | | 150.0 | |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | X | 4.32 | 66.27 | 15.75 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.45 | 66.61 | 16.06 | | | 150.0 | |
| | | Z | 4.32 | 66.26 | 15.75 | | | 150.0 | |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | X | 4.54 | 66.50 | 15.92 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.68 | 66.85 | 16.21 | | | 150.0 | |
| | | Z | 4.54 | 66.49 | 15.92 | | | 150.0 | |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | X | 4.58 | 66.50 | 15.95 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.72 | 66.83 | 16.22 | | | 150.0 | |
| | | Z | 4.59 | 66.49 | 15.94 | | | 150.0 | |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | X | 4.93 | 66.68 | 16.09 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.04 | 67.01 | 16.33 | | | 150.0 | |
| | | Z | 4.94 | 66.67 | 16.09 | | | 150.0 | |

Certificate No: EX3-3601_Jun18

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.

EX3DV4-SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|-------|--------|--------|-------|-------|---------|--|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | X | 5.24 | 66.96 | 16.26 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.34 | 67.20 | 16.45 | | 150.0 | |
| | | | Z | 5.25 | 66.96 | 16.26 | | 150.0 | |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 4.97 | 66.79 | 16.07 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.09 | 67.12 | 16.31 | | 150.0 | |
| | | | Z | 4.98 | 66.78 | 16.07 | | 150.0 | |
| 10225-CAB | UMTS-FDD (HSPA+) | X | 2.61 | 65.30 | 14.50 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 2.77 | 66.01 | 15.22 | | 150.0 | |
| | | | Z | 2.62 | 65.28 | 14.51 | | 150.0 | |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | X | 19.06 | 102.80 | 30.64 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 84.74 | 127.31 | 36.73 | | 65.0 | |
| | | | Z | 16.97 | 101.30 | 30.30 | | 65.0 | |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | X | 18.47 | 100.66 | 29.36 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 61.00 | 119.15 | 34.00 | | 65.0 | |
| | | | Z | 16.71 | 99.46 | 29.10 | | 65.0 | |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | X | 11.22 | 97.35 | 30.90 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 42.26 | 122.26 | 37.83 | | 65.0 | |
| | | | Z | 9.70 | 95.02 | 30.26 | | 65.0 | |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | X | 17.60 | 101.16 | 30.06 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 73.82 | 124.58 | 35.96 | | 65.0 | |
| | | | Z | 15.72 | 99.72 | 29.73 | | 65.0 | |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | X | 16.98 | 99.07 | 28.81 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 54.30 | 116.97 | 33.37 | | 65.0 | |
| | | | Z | 15.36 | 97.90 | 28.55 | | 65.0 | |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | X | 10.61 | 96.11 | 30.42 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 38.34 | 120.13 | 37.18 | | 65.0 | |
| | | | Z | 9.21 | 93.87 | 29.80 | | 65.0 | |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | X | 17.57 | 101.15 | 30.06 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 73.88 | 124.60 | 35.97 | | 65.0 | |
| | | | Z | 15.69 | 99.70 | 29.73 | | 65.0 | |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | X | 16.93 | 99.04 | 28.80 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 54.26 | 116.98 | 33.37 | | 65.0 | |
| | | | Z | 15.34 | 97.87 | 28.54 | | 65.0 | |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | X | 10.13 | 95.03 | 29.94 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 35.09 | 116.08 | 36.51 | | 65.0 | |
| | | | Z | 8.83 | 92.87 | 29.34 | | 65.0 | |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | X | 17.61 | 101.20 | 30.07 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 74.39 | 124.74 | 36.01 | | 65.0 | |
| | | | Z | 15.72 | 99.75 | 29.75 | | 65.0 | |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | X | 17.15 | 99.23 | 28.85 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 55.30 | 117.26 | 33.44 | | 65.0 | |
| | | | Z | 15.54 | 98.06 | 28.59 | | 65.0 | |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | X | 10.63 | 96.19 | 30.45 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 38.84 | 120.43 | 37.26 | | 65.0 | |
| | | | Z | 9.22 | 93.94 | 29.82 | | 65.0 | |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | X | 17.54 | 101.13 | 30.05 | 6.02 | 65.0 | ± 9.6 % | |
| | | | Y | 73.93 | 124.62 | 35.97 | | 65.0 | |
| | | | Z | 15.66 | 99.68 | 29.72 | | 65.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|--|---|-------|-------|--------|-------|------|---------|--|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | X | 16.87 | 99.00 | 28.79 | 6.02 | 85.0 | ± 9.6 % | |
| | | | Y | 54.20 | 116.98 | 33.38 | | 85.0 | |
| | | | Z | 15.28 | 97.83 | 28.53 | | 85.0 | |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | X | 10.60 | 96.15 | 30.43 | 6.02 | 85.0 | ± 9.6 % | |
| | | | Y | 38.66 | 120.35 | 37.24 | | 85.0 | |
| | | | Z | 9.20 | 93.89 | 29.81 | | 85.0 | |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 8.68 | 82.76 | 26.12 | 6.96 | 85.0 | ± 9.6 % | |
| | | | Y | 11.24 | 87.33 | 27.87 | | 85.0 | |
| | | | Z | 8.20 | 81.79 | 25.60 | | 85.0 | |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 8.24 | 81.67 | 25.60 | 6.96 | 85.0 | ± 9.6 % | |
| | | | Y | 9.94 | 84.69 | 26.78 | | 85.0 | |
| | | | Z | 7.73 | 80.54 | 25.21 | | 85.0 | |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | X | 6.66 | 78.27 | 25.11 | 6.96 | 85.0 | ± 9.6 % | |
| | | | Y | 7.69 | 80.76 | 26.19 | | 85.0 | |
| | | | Z | 6.24 | 77.03 | 24.63 | | 85.0 | |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 6.51 | 76.73 | 18.61 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 8.90 | 80.96 | 20.59 | | 85.0 | |
| | | | Z | 6.20 | 76.45 | 18.60 | | 85.0 | |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | X | 6.23 | 75.82 | 18.19 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 8.52 | 80.01 | 20.18 | | 85.0 | |
| | | | Z | 5.95 | 75.55 | 18.18 | | 85.0 | |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 5.89 | 78.26 | 19.20 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 10.33 | 86.66 | 22.77 | | 85.0 | |
| | | | Z | 5.69 | 78.38 | 19.42 | | 85.0 | |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | X | 5.27 | 73.98 | 18.20 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 6.98 | 78.14 | 20.37 | | 85.0 | |
| | | | Z | 5.06 | 73.79 | 18.26 | | 85.0 | |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | X | 5.20 | 73.29 | 17.89 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 6.82 | 77.27 | 20.01 | | 85.0 | |
| | | | Z | 5.00 | 73.09 | 17.94 | | 85.0 | |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | X | 7.64 | 82.87 | 21.98 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 12.50 | 90.52 | 24.99 | | 85.0 | |
| | | | Z | 7.27 | 82.69 | 22.09 | | 85.0 | |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | X | 6.39 | 77.19 | 21.35 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 7.97 | 80.62 | 22.94 | | 85.0 | |
| | | | Z | 6.07 | 76.89 | 21.28 | | 85.0 | |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | X | 5.95 | 74.70 | 19.94 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 7.31 | 77.83 | 21.49 | | 85.0 | |
| | | | Z | 5.69 | 74.26 | 19.87 | | 85.0 | |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | X | 7.81 | 82.79 | 23.08 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 11.09 | 88.26 | 25.20 | | 85.0 | |
| | | | Z | 7.35 | 82.26 | 23.04 | | 85.0 | |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | X | 6.02 | 73.87 | 20.02 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 7.15 | 76.53 | 21.33 | | 85.0 | |
| | | | Z | 5.76 | 73.39 | 19.91 | | 85.0 | |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | X | 6.41 | 74.89 | 20.77 | 3.96 | 85.0 | ± 9.6 % | |
| | | | Y | 7.57 | 77.46 | 22.02 | | 85.0 | |
| | | | Z | 6.13 | 74.39 | 20.66 | | 85.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4-SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|-------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | X | 6.95 | 78.78 | 21.87 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 8.80 | 82.37 | 23.35 | | 65.0 | |
| | | Z | 6.59 | 78.27 | 21.78 | | 65.0 | |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.69 | 71.51 | 15.31 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 6.81 | 76.30 | 17.77 | | 65.0 | |
| | | Z | 4.50 | 71.34 | 15.32 | | 65.0 | |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 4.47 | 70.51 | 14.76 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 6.44 | 75.12 | 17.21 | | 65.0 | |
| | | Z | 4.29 | 70.34 | 14.77 | | 65.0 | |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | X | 4.06 | 72.26 | 15.82 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.18 | 80.25 | 19.65 | | 65.0 | |
| | | Z | 3.95 | 72.43 | 16.05 | | 65.0 | |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | X | 5.72 | 75.25 | 19.37 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.37 | 79.06 | 21.29 | | 65.0 | |
| | | Z | 5.47 | 74.94 | 19.38 | | 65.0 | |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | X | 5.72 | 74.91 | 19.23 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.31 | 78.59 | 21.12 | | 65.0 | |
| | | Z | 5.48 | 74.60 | 19.24 | | 65.0 | |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | X | 7.27 | 81.87 | 22.09 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 10.93 | 88.24 | 24.66 | | 65.0 | |
| | | Z | 6.86 | 81.50 | 22.12 | | 65.0 | |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | X | 6.37 | 77.12 | 21.30 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.95 | 80.56 | 22.90 | | 65.0 | |
| | | Z | 6.05 | 76.62 | 21.23 | | 65.0 | |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | X | 5.94 | 74.67 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.30 | 77.80 | 21.49 | | 65.0 | |
| | | Z | 5.68 | 74.24 | 19.86 | | 65.0 | |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | X | 7.72 | 82.55 | 22.97 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 10.95 | 88.00 | 25.09 | | 65.0 | |
| | | Z | 7.26 | 82.02 | 22.93 | | 65.0 | |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | X | 6.14 | 74.37 | 20.28 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.36 | 77.20 | 21.81 | | 65.0 | |
| | | Z | 5.87 | 73.89 | 20.17 | | 65.0 | |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | X | 6.57 | 75.48 | 21.12 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.80 | 78.16 | 22.36 | | 65.0 | |
| | | Z | 6.28 | 74.97 | 21.00 | | 65.0 | |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | X | 7.27 | 79.38 | 21.91 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 9.30 | 83.06 | 23.38 | | 65.0 | |
| | | Z | 6.92 | 78.93 | 21.85 | | 65.0 | |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | X | 6.75 | 74.24 | 20.68 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.82 | 76.54 | 21.74 | | 65.0 | |
| | | Z | 6.49 | 73.77 | 20.56 | | 65.0 | |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | X | 6.72 | 73.83 | 20.55 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 7.73 | 76.02 | 21.58 | | 65.0 | |
| | | Z | 6.46 | 73.36 | 20.43 | | 65.0 | |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | X | 6.94 | 76.39 | 20.90 | 3.98 | 65.0 | ± 9.6 % |
| | | Y | 8.28 | 78.95 | 21.97 | | 65.0 | |
| | | Z | 6.65 | 75.97 | 20.82 | | 65.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN.3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|-------|-------|-------|------|-------|-------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | X | 2.40 | 65.55 | 14.34 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.55 | 66.36 | 15.12 | | 150.0 | |
| | | Z | 2.40 | 65.52 | 14.34 | | 150.0 | |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | X | 1.37 | 65.59 | 13.82 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.57 | 67.69 | 15.34 | | 150.0 | |
| | | Z | 1.37 | 65.56 | 13.81 | | 150.0 | |
| 10277-CAA | PHS (QPSK) | X | 2.46 | 62.30 | 7.92 | 9.03 | 50.0 | ±9.6% |
| | | Y | 2.99 | 63.63 | 9.17 | | 50.0 | |
| | | Z | 2.33 | 62.06 | 7.69 | | 50.0 | |
| 10278-CAA | PHS (QPSK, BW 884MHz, Roll-off 0.5) | X | 4.98 | 72.46 | 15.62 | 9.03 | 50.0 | ±9.6% |
| | | Y | 8.77 | 80.80 | 19.53 | | 50.0 | |
| | | Z | 5.06 | 73.09 | 15.89 | | 50.0 | |
| 10279-CAA | PHS (QPSK, BW 884MHz, Roll-off 0.38) | X | 5.10 | 72.72 | 15.78 | 9.03 | 50.0 | ±9.6% |
| | | Y | 8.97 | 81.08 | 19.68 | | 50.0 | |
| | | Z | 5.19 | 73.38 | 16.06 | | 50.0 | |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate | X | 0.97 | 64.08 | 10.61 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.37 | 66.00 | 13.49 | | 150.0 | |
| | | Z | 0.98 | 64.13 | 10.68 | | 150.0 | |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate | X | 0.58 | 62.04 | 9.17 | 0.00 | 150.0 | ±9.6% |
| | | Y | 0.77 | 65.07 | 11.88 | | 150.0 | |
| | | Z | 0.58 | 62.07 | 9.23 | | 150.0 | |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate | X | 0.64 | 63.79 | 10.46 | 0.00 | 150.0 | ±9.6% |
| | | Y | 0.99 | 69.13 | 14.24 | | 150.0 | |
| | | Z | 0.64 | 63.81 | 10.51 | | 150.0 | |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate | X | 0.81 | 66.57 | 12.32 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.56 | 75.54 | 17.45 | | 150.0 | |
| | | Z | 0.81 | 66.55 | 12.35 | | 150.0 | |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | X | 11.79 | 88.13 | 24.57 | 9.03 | 50.0 | ±9.6% |
| | | Y | 13.93 | 91.96 | 26.60 | | 50.0 | |
| | | Z | 12.03 | 89.02 | 24.99 | | 50.0 | |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | X | 2.43 | 67.83 | 15.42 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.71 | 69.51 | 16.44 | | 150.0 | |
| | | Z | 2.43 | 67.81 | 15.41 | | 150.0 | |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | X | 1.17 | 64.21 | 11.42 | 0.00 | 150.0 | ±9.6% |
| | | Y | 1.51 | 67.23 | 13.79 | | 150.0 | |
| | | Z | 1.18 | 64.25 | 11.49 | | 150.0 | |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | X | 2.14 | 67.38 | 12.81 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.87 | 70.55 | 14.89 | | 150.0 | |
| | | Z | 2.09 | 67.00 | 12.62 | | 150.0 | |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | X | 1.64 | 63.53 | 10.15 | 0.00 | 150.0 | ±9.6% |
| | | Y | 2.07 | 65.55 | 11.64 | | 150.0 | |
| | | Z | 1.63 | 63.41 | 10.08 | | 150.0 | |
| 10301-AAA | IEEE 802.16e WIMAX (29.18, 5ms, 10MHz, QPSK, PUSC) | X | 4.80 | 65.91 | 17.41 | 4.17 | 50.0 | ±9.6% |
| | | Y | 5.18 | 67.15 | 18.29 | | 50.0 | |
| | | Z | 4.75 | 65.66 | 17.30 | | 50.0 | |
| 10302-AAA | IEEE 802.16e WIMAX (29.18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.25 | 66.32 | 18.01 | 4.96 | 50.0 | ±9.6% |
| | | Y | 5.53 | 67.15 | 18.67 | | 50.0 | |
| | | Z | 5.21 | 66.16 | 17.95 | | 50.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|-------|-------|---------|--|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) | X | 5.02 | 66.03 | 17.86 | 4.96 | 50.0 | ± 9.6 % | |
| | | | Y | 5.30 | 66.93 | 18.58 | | 50.0 | |
| | | | Z | 4.96 | 65.85 | 17.79 | | 50.0 | |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC) | X | 4.79 | 65.79 | 17.29 | 4.17 | 50.0 | ± 9.6 % | |
| | | | Y | 5.06 | 66.59 | 17.94 | | 50.0 | |
| | | | Z | 4.76 | 65.63 | 17.23 | | 50.0 | |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) | X | 4.90 | 69.87 | 20.22 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.31 | 71.48 | 21.54 | | 35.0 | |
| | | | Z | 4.75 | 69.22 | 19.95 | | 35.0 | |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols) | X | 4.99 | 68.00 | 19.55 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.28 | 69.01 | 20.47 | | 35.0 | |
| | | | Z | 4.80 | 67.60 | 19.37 | | 35.0 | |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols) | X | 4.82 | 68.28 | 19.55 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.25 | 69.46 | 20.56 | | 35.0 | |
| | | | Z | 4.82 | 67.84 | 19.36 | | 35.0 | |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) | X | 4.92 | 68.59 | 19.73 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.26 | 69.83 | 20.78 | | 35.0 | |
| | | | Z | 4.82 | 68.12 | 19.53 | | 35.0 | |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 5.04 | 68.19 | 19.68 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.35 | 69.29 | 20.64 | | 35.0 | |
| | | | Z | 4.95 | 67.79 | 19.50 | | 35.0 | |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) | X | 4.96 | 68.14 | 19.55 | 6.02 | 35.0 | ± 9.6 % | |
| | | | Y | 5.25 | 69.19 | 20.50 | | 35.0 | |
| | | | Z | 4.87 | 67.72 | 19.37 | | 35.0 | |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | X | 2.77 | 67.21 | 15.18 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.07 | 68.80 | 16.10 | | 150.0 | |
| | | | Z | 2.77 | 67.19 | 15.17 | | 150.0 | |
| 10313-AAA | iDEN 1:3 | X | 4.50 | 74.82 | 16.72 | 6.99 | 70.0 | ± 9.6 % | |
| | | | Y | 8.14 | 81.70 | 19.31 | | 70.0 | |
| | | | Z | 4.21 | 74.79 | 16.81 | | 70.0 | |
| 10314-AAA | iDEN 1:6 | X | 6.62 | 83.57 | 22.82 | 10.00 | 30.0 | ± 9.6 % | |
| | | | Y | 15.63 | 96.40 | 26.94 | | 30.0 | |
| | | | Z | 6.51 | 84.13 | 23.15 | | 30.0 | |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | X | 1.00 | 62.64 | 14.01 | 0.17 | 150.0 | ± 9.6 % | |
| | | | Y | 1.09 | 64.02 | 15.23 | | 150.0 | |
| | | | Z | 0.99 | 62.54 | 13.97 | | 150.0 | |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | X | 4.44 | 66.34 | 15.96 | 0.17 | 150.0 | ± 9.6 % | |
| | | | Y | 4.58 | 66.68 | 16.29 | | 150.0 | |
| | | | Z | 4.45 | 66.32 | 15.96 | | 150.0 | |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | X | 4.44 | 66.34 | 15.98 | 0.17 | 150.0 | ± 9.6 % | |
| | | | Y | 4.58 | 66.68 | 16.29 | | 150.0 | |
| | | | Z | 4.45 | 66.32 | 15.98 | | 150.0 | |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle) | X | 4.51 | 66.56 | 15.91 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.66 | 66.92 | 16.21 | | 150.0 | |
| | | | Z | 4.52 | 66.54 | 15.91 | | 150.0 | |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle) | X | 5.26 | 66.85 | 16.18 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.36 | 67.11 | 16.36 | | 150.0 | |
| | | | Z | 5.27 | 66.86 | 16.18 | | 150.0 | |

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle) | X | 5.49 | 67.07 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.61 | 67.41 | 16.38 | | 150.0 | |
| | | Z | 5.50 | 67.07 | 16.16 | | 150.0 | |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0) | X | 0.97 | 64.08 | 10.61 | 0.00 | 115.0 | ± 9.6 % |
| | | Y | 1.37 | 68.00 | 13.49 | | 115.0 | |
| | | Z | 0.98 | 64.13 | 10.68 | | 115.0 | |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A) | X | 0.97 | 64.08 | 10.61 | 0.00 | 115.0 | ± 9.6 % |
| | | Y | 1.37 | 68.00 | 13.49 | | 115.0 | |
| | | Z | 0.98 | 64.13 | 10.68 | | 115.0 | |
| 10406-AAB | CDMA2000, RC3, SQ32, SCH0, Full Rate | X | 30.79 | 107.36 | 27.23 | 0.00 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 120.16 | 29.82 | | 100.0 | |
| | | Z | 19.65 | 100.98 | 25.49 | | 100.0 | |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 124.91 | 31.71 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 121.32 | 30.41 | | 80.0 | |
| | | Z | 100.00 | 125.61 | 31.93 | | 80.0 | |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | X | 0.92 | 61.75 | 13.36 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.98 | 62.81 | 14.44 | | 150.0 | |
| | | Z | 0.92 | 61.72 | 13.35 | | 150.0 | |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | X | 4.37 | 66.26 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.50 | 66.58 | 16.15 | | 150.0 | |
| | | Z | 4.38 | 66.25 | 15.86 | | 150.0 | |
| 10417-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | X | 4.37 | 66.26 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.50 | 66.58 | 16.15 | | 150.0 | |
| | | Z | 4.38 | 66.25 | 15.86 | | 150.0 | |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble) | X | 4.36 | 66.42 | 15.89 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.49 | 66.74 | 16.17 | | 150.0 | |
| | | Z | 4.37 | 66.40 | 15.88 | | 150.0 | |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.38 | 66.37 | 15.89 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.51 | 66.69 | 16.17 | | 150.0 | |
| | | Z | 4.39 | 66.35 | 15.89 | | 150.0 | |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | X | 4.50 | 66.38 | 15.91 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.63 | 66.69 | 16.18 | | 150.0 | |
| | | Z | 4.51 | 66.36 | 15.91 | | 150.0 | |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | X | 4.64 | 66.66 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.79 | 67.00 | 16.30 | | 150.0 | |
| | | Z | 4.65 | 66.65 | 16.02 | | 150.0 | |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | X | 4.57 | 66.61 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.72 | 66.95 | 16.27 | | 150.0 | |
| | | Z | 4.58 | 66.60 | 15.99 | | 150.0 | |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | X | 5.19 | 66.94 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.31 | 67.25 | 16.45 | | 150.0 | |
| | | Z | 5.20 | 66.93 | 16.22 | | 150.0 | |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) | X | 5.21 | 67.03 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 5.32 | 67.28 | 16.46 | | 150.0 | |
| | | Z | 5.22 | 67.02 | 16.26 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|--|---|--------|--------|--------|-------|-------|---------|--|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | X | 5.21 | 66.94 | 16.22 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 5.33 | 67.26 | 16.44 | | 150.0 | |
| | | | Z | 5.22 | 66.94 | 16.22 | | 150.0 | |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | X | 4.02 | 70.30 | 17.56 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.18 | 70.49 | 17.96 | | 150.0 | |
| | | | Z | 4.02 | 70.25 | 17.56 | | 150.0 | |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | X | 4.00 | 66.69 | 15.72 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.18 | 67.12 | 16.13 | | 150.0 | |
| | | | Z | 4.01 | 66.67 | 15.72 | | 150.0 | |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | X | 4.33 | 66.63 | 15.89 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.48 | 67.00 | 16.21 | | 150.0 | |
| | | | Z | 4.33 | 66.61 | 15.89 | | 150.0 | |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) | X | 4.58 | 66.64 | 16.01 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.73 | 66.99 | 16.29 | | 150.0 | |
| | | | Z | 4.59 | 66.63 | 16.01 | | 150.0 | |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH) | X | 4.06 | 70.92 | 17.34 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.27 | 71.30 | 17.90 | | 150.0 | |
| | | | Z | 4.06 | 70.88 | 17.35 | | 150.0 | |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 124.67 | 31.60 | 3.23 | 80.0 | ± 9.6 % | |
| | | | Y | 100.00 | 121.12 | 30.31 | | 80.0 | |
| | | | Z | 100.00 | 125.37 | 31.82 | | 80.0 | |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | X | 3.24 | 66.36 | 14.69 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.47 | 67.09 | 15.42 | | 150.0 | |
| | | | Z | 3.25 | 66.35 | 14.70 | | 150.0 | |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | X | 3.86 | 66.46 | 15.57 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.02 | 66.90 | 15.99 | | 150.0 | |
| | | | Z | 3.86 | 66.45 | 15.58 | | 150.0 | |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | X | 4.15 | 66.44 | 15.77 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.29 | 66.82 | 16.11 | | 150.0 | |
| | | | Z | 4.16 | 66.43 | 15.77 | | 150.0 | |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | X | 4.36 | 66.40 | 15.85 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.49 | 66.75 | 16.14 | | 150.0 | |
| | | | Z | 4.37 | 66.38 | 15.84 | | 150.0 | |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | X | 3.07 | 66.27 | 14.09 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.35 | 67.23 | 15.01 | | 150.0 | |
| | | | Z | 3.09 | 66.28 | 14.12 | | 150.0 | |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle) | X | 6.10 | 67.60 | 16.46 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 6.17 | 67.80 | 16.60 | | 150.0 | |
| | | | Z | 6.11 | 67.59 | 16.46 | | 150.0 | |
| 10457-AAA | UMTS-FDD (DC-HSDPA) | X | 3.68 | 64.94 | 15.56 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.76 | 65.22 | 15.86 | | 150.0 | |
| | | | Z | 3.68 | 64.92 | 15.56 | | 150.0 | |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | X | 3.64 | 69.83 | 16.43 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 3.92 | 70.59 | 17.30 | | 150.0 | |
| | | | Z | 3.65 | 69.81 | 16.46 | | 150.0 | |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | X | 4.90 | 68.31 | 17.78 | 0.00 | 150.0 | ± 9.6 % | |
| | | | Y | 4.99 | 68.05 | 17.92 | | 150.0 | |
| | | | Z | 4.90 | 68.27 | 17.79 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR) | X | 0.70 | 64.51 | 13.31 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.86 | 67.82 | 15.75 | | 150.0 | |
| | | Z | 0.70 | 64.47 | 13.28 | | 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 | 128.89 | 33.67 | 3.29 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 126.52 | 32.84 | | 80.0 | |
| | | Z | 100.00 | 129.61 | 33.85 | | 80.0 | |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 11.24 | 85.71 | 18.56 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 107.01 | 23.71 | | 80.0 | |
| | | Z | 7.60 | 81.91 | 17.44 | | 80.0 | |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.22 | 68.12 | 12.22 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 8.52 | 79.99 | 16.22 | | 80.0 | |
| | | Z | 1.89 | 66.79 | 11.65 | | 80.0 | |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 126.35 | 32.27 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 124.09 | 31.55 | | 80.0 | |
| | | Z | 100.00 | 126.89 | 32.42 | | 80.0 | |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.43 | 78.04 | 16.22 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 61.58 | 101.53 | 22.35 | | 80.0 | |
| | | Z | 4.13 | 75.48 | 15.36 | | 80.0 | |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.84 | 66.23 | 11.40 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 5.22 | 75.15 | 14.66 | | 80.0 | |
| | | Z | 1.61 | 65.19 | 10.92 | | 80.0 | |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 126.67 | 32.42 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 124.36 | 31.67 | | 80.0 | |
| | | Z | 100.00 | 127.22 | 32.57 | | 80.0 | |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.42 | 79.84 | 16.80 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 95.13 | 106.08 | 23.39 | | 80.0 | |
| | | Z | 4.76 | 76.99 | 15.88 | | 80.0 | |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.85 | 66.30 | 11.43 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 5.30 | 75.30 | 14.71 | | 80.0 | |
| | | Z | 1.62 | 65.24 | 10.96 | | 80.0 | |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 126.70 | 32.42 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 124.39 | 31.67 | | 80.0 | |
| | | Z | 100.00 | 127.26 | 32.58 | | 80.0 | |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.33 | 79.66 | 16.73 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 93.01 | 105.78 | 23.31 | | 80.0 | |
| | | Z | 4.69 | 76.83 | 15.81 | | 80.0 | |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.84 | 66.22 | 11.39 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 5.23 | 75.17 | 14.65 | | 80.0 | |
| | | Z | 1.60 | 65.17 | 10.90 | | 80.0 | |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 126.67 | 32.40 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 124.35 | 31.66 | | 80.0 | |
| | | Z | 100.00 | 127.22 | 32.56 | | 80.0 | |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.23 | 79.51 | 16.69 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 89.77 | 105.43 | 23.23 | | 80.0 | |
| | | Z | 4.63 | 76.70 | 15.77 | | 80.0 | |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.83 | 66.18 | 11.37 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 5.17 | 75.07 | 14.62 | | 80.0 | |
| | | Z | 1.59 | 65.13 | 10.89 | | 80.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|-------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.49 | 78.15 | 16.23 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 65.26 | 102.05 | 22.44 | | 80.0 | |
| | | Z | 4.15 | 75.54 | 15.36 | | 80.0 | |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.81 | 66.09 | 11.33 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 5.09 | 74.88 | 14.55 | | 80.0 | |
| | | Z | 1.58 | 65.06 | 10.85 | | 80.0 | |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 18.48 | 99.99 | 27.17 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 22.20 | 101.96 | 27.87 | | 80.0 | |
| | | Z | 14.17 | 98.33 | 26.21 | | 80.0 | |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 14.09 | 89.36 | 21.95 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 20.63 | 93.88 | 23.53 | | 80.0 | |
| | | Z | 11.71 | 87.23 | 21.36 | | 80.0 | |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 9.14 | 82.86 | 19.53 | 3.23 | 80.0 | ± 9.6 % |
| | | Y | 14.27 | 88.02 | 21.43 | | 80.0 | |
| | | Z | 7.91 | 81.27 | 19.06 | | 80.0 | |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 2.52 | 69.21 | 14.96 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.13 | 78.71 | 19.34 | | 80.0 | |
| | | Z | 2.46 | 69.28 | 15.12 | | 80.0 | |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.99 | 74.88 | 17.01 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 7.65 | 80.31 | 19.44 | | 80.0 | |
| | | Z | 4.60 | 74.09 | 16.78 | | 80.0 | |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.44 | 73.15 | 16.36 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 6.72 | 78.36 | 18.77 | | 80.0 | |
| | | Z | 4.14 | 72.49 | 16.16 | | 80.0 | |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.13 | 72.16 | 17.32 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.32 | 79.69 | 20.70 | | 80.0 | |
| | | Z | 3.02 | 71.96 | 17.37 | | 80.0 | |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.95 | 68.06 | 15.01 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.18 | 72.74 | 17.56 | | 80.0 | |
| | | Z | 2.68 | 68.00 | 15.09 | | 80.0 | |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.94 | 67.68 | 14.83 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.10 | 72.11 | 17.30 | | 80.0 | |
| | | Z | 2.88 | 67.63 | 14.91 | | 80.0 | |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.50 | 71.98 | 16.16 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.95 | 77.05 | 20.46 | | 80.0 | |
| | | Z | 3.37 | 71.66 | 18.14 | | 80.0 | |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.43 | 68.78 | 16.82 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.19 | 71.55 | 18.33 | | 80.0 | |
| | | Z | 3.34 | 68.53 | 16.79 | | 80.0 | |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.52 | 68.64 | 16.78 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.25 | 71.23 | 18.22 | | 80.0 | |
| | | Z | 3.43 | 68.39 | 16.75 | | 80.0 | |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.74 | 70.64 | 17.84 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.79 | 74.22 | 19.51 | | 80.0 | |
| | | Z | 3.63 | 70.36 | 17.79 | | 80.0 | |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.79 | 68.16 | 16.96 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.41 | 70.27 | 18.11 | | 80.0 | |
| | | Z | 3.70 | 67.92 | 16.91 | | 80.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.85 | 68.05 | 16.92 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.46 | 70.06 | 18.03 | | 80.0 | |
| | | Z | 3.76 | 67.81 | 16.88 | | 80.0 | |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 4.02 | 71.95 | 18.24 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.39 | 76.25 | 20.12 | | 80.0 | |
| | | Z | 3.90 | 71.68 | 18.20 | | 80.0 | |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.82 | 68.49 | 17.15 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.47 | 70.75 | 18.33 | | 80.0 | |
| | | Z | 3.72 | 68.24 | 17.10 | | 80.0 | |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.90 | 68.26 | 17.09 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.51 | 70.34 | 18.20 | | 80.0 | |
| | | Z | 3.81 | 68.02 | 17.05 | | 80.0 | |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 1.64 | 63.93 | 11.45 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 3.48 | 72.94 | 16.17 | | 80.0 | |
| | | Z | 1.62 | 64.10 | 11.64 | | 80.0 | |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.36 | 60.00 | 8.37 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 2.11 | 64.18 | 11.38 | | 80.0 | |
| | | Z | 1.34 | 60.00 | 8.46 | | 80.0 | |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.38 | 60.00 | 8.24 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 2.00 | 63.38 | 10.85 | | 80.0 | |
| | | Z | 1.36 | 60.00 | 8.32 | | 80.0 | |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.25 | 71.93 | 17.62 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.97 | 78.02 | 20.41 | | 80.0 | |
| | | Z | 3.13 | 71.66 | 17.62 | | 80.0 | |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.19 | 68.55 | 15.79 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.19 | 72.26 | 17.86 | | 80.0 | |
| | | Z | 3.11 | 68.40 | 15.83 | | 80.0 | |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.23 | 68.38 | 15.66 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.22 | 71.98 | 17.69 | | 80.0 | |
| | | Z | 3.16 | 68.25 | 15.70 | | 80.0 | |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.45 | 71.77 | 18.08 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.88 | 76.80 | 20.35 | | 80.0 | |
| | | Z | 3.33 | 71.45 | 18.04 | | 80.0 | |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.41 | 68.67 | 16.76 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.17 | 71.45 | 18.27 | | 80.0 | |
| | | Z | 3.32 | 68.43 | 16.73 | | 80.0 | |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.50 | 68.54 | 16.72 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.23 | 71.13 | 18.16 | | 80.0 | |
| | | Z | 3.41 | 68.30 | 16.69 | | 80.0 | |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 3.99 | 71.81 | 18.17 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.34 | 76.07 | 20.04 | | 80.0 | |
| | | Z | 3.87 | 71.54 | 18.13 | | 80.0 | |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.80 | 68.43 | 17.11 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.45 | 70.68 | 18.30 | | 80.0 | |
| | | Z | 3.71 | 68.16 | 17.07 | | 80.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.89 | 68.19 | 17.05 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.50 | 70.26 | 18.15 | | 80.0 | |
| | | Z | 3.79 | 67.95 | 17.00 | | 80.0 | |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 4.34 | 70.70 | 17.76 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.36 | 73.79 | 19.16 | | 80.0 | |
| | | Z | 4.23 | 70.47 | 17.73 | | 80.0 | |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.29 | 68.19 | 17.17 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.88 | 70.06 | 18.13 | | 80.0 | |
| | | Z | 4.20 | 67.96 | 17.12 | | 80.0 | |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.35 | 67.98 | 17.12 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.91 | 69.72 | 18.03 | | 80.0 | |
| | | Z | 4.26 | 67.75 | 17.07 | | 80.0 | |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 4.50 | 72.02 | 18.14 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 5.87 | 75.98 | 19.85 | | 80.0 | |
| | | Z | 4.38 | 71.80 | 18.12 | | 80.0 | |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.18 | 68.39 | 17.24 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.80 | 70.47 | 18.29 | | 80.0 | |
| | | Z | 4.08 | 68.16 | 17.19 | | 80.0 | |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.21 | 68.03 | 17.15 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.78 | 69.92 | 18.12 | | 80.0 | |
| | | Z | 4.11 | 67.80 | 17.09 | | 80.0 | |
| 10515-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) | X | 0.88 | 61.83 | 13.34 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.94 | 62.98 | 14.49 | | 150.0 | |
| | | Z | 0.88 | 61.80 | 13.32 | | 150.0 | |
| 10516-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) | X | 0.41 | 64.58 | 12.89 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.57 | 70.03 | 16.74 | | 150.0 | |
| | | Z | 0.41 | 64.53 | 12.84 | | 150.0 | |
| 10517-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle) | X | 0.70 | 62.81 | 13.29 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.79 | 64.81 | 15.03 | | 150.0 | |
| | | Z | 0.70 | 62.78 | 13.27 | | 150.0 | |
| 10518-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) | X | 4.36 | 66.33 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.49 | 66.65 | 16.13 | | 150.0 | |
| | | Z | 4.37 | 66.32 | 15.84 | | 150.0 | |
| 10519-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | X | 4.53 | 66.54 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.68 | 66.89 | 16.24 | | 150.0 | |
| | | Z | 4.54 | 66.53 | 15.95 | | 150.0 | |
| 10520-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) | X | 4.38 | 66.47 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.53 | 66.84 | 16.16 | | 150.0 | |
| | | Z | 4.39 | 66.46 | 15.86 | | 150.0 | |
| 10521-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) | X | 4.31 | 66.44 | 15.83 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.46 | 66.84 | 16.15 | | 150.0 | |
| | | Z | 4.32 | 66.44 | 15.83 | | 150.0 | |
| 10522-AAB | IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) | X | 4.37 | 66.58 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 4.52 | 66.93 | 16.24 | | 150.0 | |
| | | Z | 4.38 | 66.57 | 15.94 | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|--|---|------|-------|-------|------|-------|---------|--|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.27 | 66.46 | 15.79 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.40 | 66.80 | 16.08 | | | 150.0 | |
| | | Z | 4.28 | 66.44 | 15.79 | | | 150.0 | |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.32 | 66.49 | 15.90 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.47 | 66.85 | 16.20 | | | 150.0 | |
| | | Z | 4.32 | 66.48 | 15.90 | | | 150.0 | |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle) | X | 4.32 | 65.56 | 15.51 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.45 | 65.90 | 15.80 | | | 150.0 | |
| | | Z | 4.33 | 65.54 | 15.51 | | | 150.0 | |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) | X | 4.47 | 65.88 | 15.64 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.62 | 66.26 | 15.94 | | | 150.0 | |
| | | Z | 4.47 | 65.87 | 15.64 | | | 150.0 | |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) | X | 4.39 | 65.83 | 15.57 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.54 | 66.22 | 15.88 | | | 150.0 | |
| | | Z | 4.40 | 65.82 | 15.57 | | | 150.0 | |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) | X | 4.40 | 65.85 | 15.80 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.56 | 66.24 | 15.91 | | | 150.0 | |
| | | Z | 4.41 | 65.83 | 15.80 | | | 150.0 | |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) | X | 4.40 | 65.85 | 15.80 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.56 | 66.24 | 15.91 | | | 150.0 | |
| | | Z | 4.41 | 65.83 | 15.80 | | | 150.0 | |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle) | X | 4.38 | 65.90 | 15.59 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.55 | 66.34 | 15.92 | | | 150.0 | |
| | | Z | 4.39 | 65.89 | 15.59 | | | 150.0 | |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle) | X | 4.25 | 65.75 | 15.52 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.41 | 66.19 | 15.85 | | | 150.0 | |
| | | Z | 4.26 | 65.74 | 15.52 | | | 150.0 | |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle) | X | 4.41 | 65.91 | 15.60 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 4.57 | 66.29 | 15.90 | | | 150.0 | |
| | | Z | 4.42 | 65.89 | 15.60 | | | 150.0 | |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle) | X | 4.96 | 66.00 | 15.73 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.09 | 66.34 | 15.97 | | | 150.0 | |
| | | Z | 4.97 | 65.99 | 15.73 | | | 150.0 | |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle) | X | 5.03 | 66.17 | 15.81 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.16 | 66.52 | 16.05 | | | 150.0 | |
| | | Z | 5.03 | 66.17 | 15.81 | | | 150.0 | |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle) | X | 4.90 | 66.11 | 15.76 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.03 | 66.47 | 16.01 | | | 150.0 | |
| | | Z | 4.91 | 66.11 | 15.76 | | | 150.0 | |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle) | X | 4.95 | 66.08 | 15.75 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.08 | 66.43 | 16.00 | | | 150.0 | |
| | | Z | 4.96 | 66.07 | 15.75 | | | 150.0 | |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle) | X | 5.04 | 66.10 | 15.80 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.17 | 66.45 | 16.05 | | | 150.0 | |
| | | Z | 5.04 | 66.09 | 15.80 | | | 150.0 | |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle) | X | 4.97 | 66.08 | 15.81 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.11 | 66.47 | 16.07 | | | 150.0 | |
| | | Z | 4.97 | 66.08 | 15.81 | | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|--|---|------|-------|-------|------|-------|---------|--|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle) | X | 4.95 | 65.97 | 15.74 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.08 | 66.34 | 16.00 | | | 150.0 | |
| | | Z | 4.95 | 65.97 | 15.74 | | | 150.0 | |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle) | X | 5.10 | 66.08 | 15.81 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.23 | 66.41 | 16.05 | | | 150.0 | |
| | | Z | 5.11 | 66.07 | 15.81 | | | 150.0 | |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle) | X | 5.17 | 66.10 | 15.85 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.31 | 66.44 | 16.09 | | | 150.0 | |
| | | Z | 5.18 | 66.09 | 15.85 | | | 150.0 | |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle) | X | 5.30 | 66.13 | 15.75 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.40 | 66.46 | 15.97 | | | 150.0 | |
| | | Z | 5.30 | 66.12 | 15.75 | | | 150.0 | |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle) | X | 5.48 | 66.56 | 15.92 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.59 | 66.86 | 16.12 | | | 150.0 | |
| | | Z | 5.49 | 66.55 | 15.92 | | | 150.0 | |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle) | X | 5.34 | 66.28 | 15.79 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.46 | 66.66 | 16.04 | | | 150.0 | |
| | | Z | 5.35 | 66.28 | 15.79 | | | 150.0 | |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle) | X | 5.41 | 66.35 | 15.82 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.53 | 66.70 | 16.05 | | | 150.0 | |
| | | Z | 5.42 | 66.35 | 15.82 | | | 150.0 | |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle) | X | 5.62 | 67.15 | 16.20 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.76 | 67.56 | 16.45 | | | 150.0 | |
| | | Z | 5.63 | 67.16 | 16.20 | | | 150.0 | |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle) | X | 5.38 | 66.38 | 15.86 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.49 | 66.68 | 16.06 | | | 150.0 | |
| | | Z | 5.39 | 66.37 | 15.85 | | | 150.0 | |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle) | X | 5.37 | 66.33 | 15.80 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.50 | 66.72 | 16.04 | | | 150.0 | |
| | | Z | 5.38 | 66.34 | 15.80 | | | 150.0 | |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle) | X | 5.30 | 66.20 | 15.73 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.41 | 66.53 | 15.95 | | | 150.0 | |
| | | Z | 5.31 | 66.19 | 15.73 | | | 150.0 | |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle) | X | 5.37 | 66.20 | 15.77 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.50 | 66.56 | 16.00 | | | 150.0 | |
| | | Z | 5.38 | 66.20 | 15.77 | | | 150.0 | |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.71 | 66.50 | 15.85 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.81 | 66.82 | 16.06 | | | 150.0 | |
| | | Z | 5.72 | 66.50 | 15.85 | | | 150.0 | |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.83 | 66.78 | 15.97 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.93 | 67.11 | 16.18 | | | 150.0 | |
| | | Z | 5.83 | 66.78 | 15.96 | | | 150.0 | |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.85 | 66.84 | 16.00 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.95 | 67.16 | 16.20 | | | 150.0 | |
| | | Z | 5.86 | 66.84 | 16.00 | | | 150.0 | |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.81 | 66.72 | 15.96 | 0.00 | 150.0 | ± 9.6 % | |
| | | Y | 5.92 | 67.07 | 16.18 | | | 150.0 | |
| | | Z | 5.82 | 66.71 | 15.96 | | | 150.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|-------|--|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle) | X | 5.85 | 66.86 | 16.05 | 0.00 | 150.0 | ±9.6% | |
| | | Y | 5.96 | 67.22 | 16.27 | | | 150.0 | |
| | | Z | 5.86 | 66.86 | 16.05 | | | 150.0 | |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle) | X | 5.85 | 66.73 | 16.02 | 0.00 | 150.0 | ±9.6% | |
| | | Y | 5.96 | 67.08 | 16.24 | | | 150.0 | |
| | | Z | 5.85 | 66.73 | 16.02 | | | 150.0 | |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) | X | 5.78 | 66.71 | 16.04 | 0.00 | 150.0 | ±9.6% | |
| | | Y | 5.68 | 67.05 | 16.26 | | | 150.0 | |
| | | Z | 5.79 | 66.71 | 16.04 | | | 150.0 | |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle) | X | 5.86 | 66.98 | 16.18 | 0.00 | 150.0 | ±9.6% | |
| | | Y | 6.00 | 67.41 | 16.44 | | | 150.0 | |
| | | Z | 5.87 | 66.99 | 16.18 | | | 150.0 | |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle) | X | 5.96 | 66.91 | 16.11 | 0.00 | 150.0 | ±9.6% | |
| | | Y | 6.20 | 67.62 | 16.50 | | | 150.0 | |
| | | Z | 5.97 | 66.93 | 16.12 | | | 150.0 | |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | X | 4.70 | 66.44 | 16.03 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.82 | 66.76 | 16.31 | | | 150.0 | |
| | | Z | 4.70 | 66.43 | 16.03 | | | 150.0 | |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 4.91 | 66.87 | 16.35 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 5.05 | 67.19 | 16.62 | | | 150.0 | |
| | | Z | 4.91 | 66.86 | 16.35 | | | 150.0 | |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.74 | 66.89 | 16.15 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.89 | 67.04 | 16.44 | | | 150.0 | |
| | | Z | 4.75 | 66.88 | 16.15 | | | 150.0 | |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.77 | 67.08 | 16.52 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.91 | 67.41 | 16.78 | | | 150.0 | |
| | | Z | 4.78 | 67.07 | 16.52 | | | 150.0 | |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.65 | 66.47 | 15.92 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.80 | 66.85 | 16.23 | | | 150.0 | |
| | | Z | 4.66 | 66.47 | 15.92 | | | 150.0 | |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.74 | 67.23 | 16.61 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.87 | 67.51 | 16.84 | | | 150.0 | |
| | | Z | 4.75 | 67.21 | 16.60 | | | 150.0 | |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.76 | 67.06 | 16.53 | 0.46 | 150.0 | ±9.6% | |
| | | Y | 4.90 | 67.36 | 16.76 | | | 150.0 | |
| | | Z | 4.77 | 67.05 | 16.53 | | | 150.0 | |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | X | 1.10 | 63.42 | 14.47 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 1.22 | 65.16 | 15.85 | | | 130.0 | |
| | | Z | 1.08 | 63.24 | 14.41 | | | 130.0 | |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | X | 1.11 | 63.89 | 14.77 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 1.24 | 65.79 | 16.22 | | | 130.0 | |
| | | Z | 1.09 | 63.70 | 14.70 | | | 130.0 | |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | X | 1.08 | 73.84 | 17.41 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.49 | 96.37 | 28.07 | | | 130.0 | |
| | | Z | 1.00 | 73.13 | 17.22 | | | 130.0 | |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | X | 1.13 | 68.08 | 16.84 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 1.43 | 72.28 | 19.34 | | | 130.0 | |
| | | Z | 1.10 | 67.75 | 16.73 | | | 130.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN.3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|-------|-------|---------|--|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | X | 4.50 | 66.27 | 16.10 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.63 | 66.61 | 16.40 | | 130.0 | |
| | | | Z | 4.50 | 66.26 | 16.10 | | 130.0 | |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | X | 4.52 | 66.45 | 16.17 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.65 | 66.77 | 16.46 | | 130.0 | |
| | | | Z | 4.52 | 66.43 | 16.17 | | 130.0 | |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.70 | 66.71 | 16.33 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.85 | 67.04 | 16.62 | | 130.0 | |
| | | | Z | 4.71 | 66.70 | 16.33 | | 130.0 | |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.60 | 66.85 | 16.43 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.75 | 67.20 | 16.72 | | 130.0 | |
| | | | Z | 4.61 | 66.83 | 16.43 | | 130.0 | |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.36 | 66.09 | 15.70 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.52 | 66.52 | 16.06 | | 130.0 | |
| | | | Z | 4.37 | 66.07 | 15.70 | | 130.0 | |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.41 | 66.16 | 15.74 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.57 | 66.57 | 16.09 | | 130.0 | |
| | | | Z | 4.42 | 66.15 | 15.74 | | 130.0 | |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.50 | 66.88 | 16.37 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.65 | 67.26 | 16.67 | | 130.0 | |
| | | | Z | 4.51 | 66.86 | 16.37 | | 130.0 | |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.30 | 65.86 | 15.49 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.47 | 66.30 | 15.86 | | 130.0 | |
| | | | Z | 4.31 | 65.85 | 15.49 | | 130.0 | |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | X | 4.50 | 66.27 | 16.10 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.63 | 66.61 | 16.40 | | 130.0 | |
| | | | Z | 4.50 | 66.26 | 16.10 | | 130.0 | |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | X | 4.52 | 66.45 | 16.17 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.65 | 66.77 | 16.46 | | 130.0 | |
| | | | Z | 4.52 | 66.43 | 16.17 | | 130.0 | |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | X | 4.70 | 66.71 | 16.33 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.85 | 67.04 | 16.62 | | 130.0 | |
| | | | Z | 4.71 | 66.70 | 16.33 | | 130.0 | |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | X | 4.60 | 66.85 | 16.43 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.75 | 67.20 | 16.72 | | 130.0 | |
| | | | Z | 4.61 | 66.83 | 16.43 | | 130.0 | |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | X | 4.36 | 66.09 | 15.70 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.52 | 66.52 | 16.06 | | 130.0 | |
| | | | Z | 4.37 | 66.07 | 15.70 | | 130.0 | |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | X | 4.41 | 66.16 | 15.74 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.57 | 66.57 | 16.09 | | 130.0 | |
| | | | Z | 4.42 | 66.15 | 15.74 | | 130.0 | |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | X | 4.50 | 66.88 | 16.37 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.65 | 67.26 | 16.67 | | 130.0 | |
| | | | Z | 4.51 | 66.86 | 16.37 | | 130.0 | |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | X | 4.30 | 65.86 | 15.49 | 0.46 | 130.0 | ± 9.6 % | |
| | | | Y | 4.47 | 66.30 | 15.86 | | 130.0 | |
| | | | Z | 4.31 | 65.85 | 15.49 | | 130.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4-SN.3801

June 26, 2018

| | | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|-------|--|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.65 | 66.38 | 16.22 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.78 | 66.66 | 16.49 | | | 130.0 | |
| | | Z | 4.65 | 66.34 | 16.22 | | | 130.0 | |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.79 | 66.67 | 16.35 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.93 | 66.99 | 16.62 | | | 130.0 | |
| | | Z | 4.79 | 66.66 | 16.35 | | | 130.0 | |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.70 | 66.55 | 16.21 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.85 | 66.90 | 16.51 | | | 130.0 | |
| | | Z | 4.71 | 66.54 | 16.21 | | | 130.0 | |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.76 | 66.73 | 16.38 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.91 | 67.07 | 16.66 | | | 130.0 | |
| | | Z | 4.76 | 66.72 | 16.38 | | | 130.0 | |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.72 | 66.69 | 16.28 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.87 | 67.03 | 16.56 | | | 130.0 | |
| | | Z | 4.73 | 66.67 | 16.28 | | | 130.0 | |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.66 | 66.67 | 16.27 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.81 | 67.03 | 16.56 | | | 130.0 | |
| | | Z | 4.66 | 66.65 | 16.27 | | | 130.0 | |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.61 | 66.55 | 16.13 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.76 | 66.93 | 16.45 | | | 130.0 | |
| | | Z | 4.61 | 66.53 | 16.13 | | | 130.0 | |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.59 | 66.77 | 16.39 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 4.74 | 67.15 | 16.70 | | | 130.0 | |
| | | Z | 4.60 | 66.76 | 16.39 | | | 130.0 | |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.32 | 66.88 | 16.47 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.44 | 67.19 | 16.70 | | | 130.0 | |
| | | Z | 5.33 | 66.88 | 16.48 | | | 130.0 | |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.45 | 67.29 | 16.65 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.56 | 67.56 | 16.85 | | | 130.0 | |
| | | Z | 5.45 | 67.29 | 16.66 | | | 130.0 | |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.34 | 67.05 | 16.54 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.46 | 67.33 | 16.76 | | | 130.0 | |
| | | Z | 5.35 | 67.04 | 16.55 | | | 130.0 | |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.46 | 67.19 | 16.54 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.55 | 67.37 | 16.70 | | | 130.0 | |
| | | Z | 5.47 | 67.18 | 16.53 | | | 130.0 | |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.52 | 67.44 | 16.80 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.63 | 67.66 | 16.97 | | | 130.0 | |
| | | Z | 5.53 | 67.43 | 16.80 | | | 130.0 | |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.40 | 67.11 | 16.62 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.45 | 67.17 | 16.71 | | | 130.0 | |
| | | Z | 5.40 | 67.08 | 16.61 | | | 130.0 | |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.45 | 67.23 | 16.67 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.55 | 67.47 | 16.87 | | | 130.0 | |
| | | Z | 5.46 | 67.22 | 16.67 | | | 130.0 | |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.18 | 66.51 | 16.16 | 0.46 | 130.0 | ±9.6% | |
| | | Y | 5.31 | 66.84 | 16.41 | | | 130.0 | |
| | | Z | 5.19 | 66.49 | 16.16 | | | 130.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.48 | 65.64 | 15.83 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.61 | 65.97 | 16.11 | | 130.0 | |
| | | Z | 4.49 | 65.63 | 15.83 | | 130.0 | |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.64 | 66.01 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.80 | 66.37 | 16.28 | | 130.0 | |
| | | Z | 4.65 | 66.00 | 15.99 | | 130.0 | |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.54 | 65.84 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.69 | 66.23 | 16.12 | | 130.0 | |
| | | Z | 4.54 | 65.83 | 15.81 | | 130.0 | |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.59 | 66.00 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.74 | 66.38 | 16.28 | | 130.0 | |
| | | Z | 4.59 | 65.99 | 15.98 | | 130.0 | |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.50 | 65.80 | 15.82 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.66 | 66.19 | 16.13 | | 130.0 | |
| | | Z | 4.51 | 65.79 | 15.82 | | 130.0 | |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.50 | 65.94 | 15.85 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.67 | 66.35 | 16.18 | | 130.0 | |
| | | Z | 4.51 | 65.93 | 15.86 | | 130.0 | |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.50 | 65.79 | 15.72 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.67 | 66.23 | 16.06 | | 130.0 | |
| | | Z | 4.51 | 65.78 | 15.72 | | 130.0 | |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.45 | 65.99 | 15.96 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.61 | 66.40 | 16.28 | | 130.0 | |
| | | Z | 4.46 | 65.98 | 15.96 | | 130.0 | |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.50 | 65.64 | 15.59 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 4.66 | 66.04 | 15.92 | | 130.0 | |
| | | Z | 4.50 | 65.63 | 15.59 | | 130.0 | |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.13 | 66.09 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.26 | 66.43 | 16.30 | | 130.0 | |
| | | Z | 5.14 | 66.09 | 16.06 | | 130.0 | |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.20 | 66.29 | 16.13 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.32 | 66.60 | 16.36 | | 130.0 | |
| | | Z | 5.21 | 66.29 | 16.14 | | 130.0 | |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.09 | 66.30 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.21 | 66.61 | 16.36 | | 130.0 | |
| | | Z | 5.10 | 66.29 | 16.15 | | 130.0 | |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.10 | 66.08 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.23 | 66.42 | 16.22 | | 130.0 | |
| | | Z | 5.11 | 66.08 | 15.98 | | 130.0 | |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.18 | 66.12 | 16.05 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.32 | 66.47 | 16.30 | | 130.0 | |
| | | Z | 5.19 | 66.12 | 16.05 | | 130.0 | |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.20 | 66.27 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.32 | 66.58 | 16.46 | | 130.0 | |
| | | Z | 5.20 | 66.27 | 16.25 | | 130.0 | |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.21 | 66.44 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.33 | 66.73 | 16.53 | | 130.0 | |
| | | Z | 5.22 | 66.44 | 16.33 | | 130.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle) | X | 5.08 | 65.93 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.21 | 66.29 | 16.19 | | 130.0 | |
| | | Z | 5.09 | 65.93 | 15.94 | | 130.0 | |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle) | X | 5.27 | 66.16 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.40 | 66.47 | 16.35 | | 130.0 | |
| | | Z | 5.28 | 66.15 | 16.12 | | 130.0 | |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle) | X | 5.52 | 66.79 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.74 | 67.39 | 16.86 | | 130.0 | |
| | | Z | 5.54 | 66.83 | 16.51 | | 130.0 | |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle) | X | 5.45 | 66.17 | 16.04 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.55 | 66.49 | 16.26 | | 130.0 | |
| | | Z | 5.46 | 66.17 | 16.04 | | 130.0 | |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle) | X | 5.69 | 66.77 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.78 | 67.03 | 16.49 | | 130.0 | |
| | | Z | 5.69 | 66.76 | 16.31 | | 130.0 | |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle) | X | 5.46 | 66.20 | 15.95 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.58 | 66.58 | 16.20 | | 130.0 | |
| | | Z | 5.47 | 66.20 | 15.96 | | 130.0 | |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle) | X | 5.54 | 66.30 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.66 | 66.63 | 16.22 | | 130.0 | |
| | | Z | 5.55 | 66.30 | 16.00 | | 130.0 | |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle) | X | 5.89 | 67.55 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.06 | 68.03 | 16.92 | | 130.0 | |
| | | Z | 5.91 | 67.58 | 16.64 | | 130.0 | |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle) | X | 5.82 | 67.43 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.97 | 67.86 | 17.02 | | 130.0 | |
| | | Z | 5.83 | 67.44 | 16.77 | | 130.0 | |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle) | X | 5.66 | 66.86 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.75 | 67.08 | 16.64 | | 130.0 | |
| | | Z | 5.67 | 66.85 | 16.49 | | 130.0 | |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle) | X | 5.53 | 66.40 | 16.08 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.65 | 66.74 | 16.31 | | 130.0 | |
| | | Z | 5.53 | 66.39 | 16.09 | | 130.0 | |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle) | X | 5.51 | 66.41 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.63 | 66.76 | 16.38 | | 130.0 | |
| | | Z | 5.51 | 66.41 | 16.15 | | 130.0 | |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle) | X | 5.38 | 65.73 | 15.53 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.52 | 66.14 | 15.81 | | 130.0 | |
| | | Z | 5.39 | 65.73 | 15.54 | | 130.0 | |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.88 | 66.55 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 5.96 | 66.85 | 16.34 | | 130.0 | |
| | | Z | 5.88 | 66.55 | 16.15 | | 130.0 | |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.02 | 66.92 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.11 | 67.22 | 16.51 | | 130.0 | |
| | | Z | 6.03 | 66.93 | 16.32 | | 130.0 | |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.02 | 66.89 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.12 | 67.20 | 16.48 | | 130.0 | |
| | | Z | 6.02 | 66.89 | 16.28 | | 130.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|--|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | X | 5.99 | 66.82 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.09 | 67.15 | 16.50 | | 130.0 | |
| | | Z | 6.00 | 66.82 | 16.29 | | 130.0 | |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle) | X | 5.99 | 66.81 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.10 | 67.17 | 16.46 | | 130.0 | |
| | | Z | 5.99 | 66.82 | 16.23 | | 130.0 | |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | X | 6.05 | 66.80 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.14 | 67.07 | 16.42 | | 130.0 | |
| | | Z | 6.06 | 66.80 | 16.24 | | 130.0 | |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle) | X | 6.06 | 67.00 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.18 | 67.31 | 16.70 | | 130.0 | |
| | | Z | 6.09 | 67.00 | 16.51 | | 130.0 | |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | X | 5.93 | 66.71 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.02 | 67.01 | 16.46 | | 130.0 | |
| | | Z | 5.93 | 66.71 | 16.25 | | 130.0 | |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | X | 6.03 | 67.03 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.16 | 67.49 | 16.72 | | 130.0 | |
| | | Z | 6.04 | 67.04 | 16.44 | | 130.0 | |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | X | 6.17 | 67.10 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
| | | Y | 6.47 | 67.97 | 16.92 | | 130.0 | |
| | | Z | 6.18 | 67.13 | 16.45 | | 130.0 | |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7) | X | 19.17 | 110.50 | 37.83 | 9.30 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 147.85 | 47.85 | | 60.0 | |
| | | Z | 16.64 | 107.87 | 37.15 | | 60.0 | |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 16.90 | 106.32 | 37.31 | 9.30 | 60.0 | ± 9.6 % |
| | | Y | 88.18 | 146.06 | 47.63 | | 60.0 | |
| | | Z | 14.61 | 105.54 | 36.57 | | 60.0 | |
| 10648-AAA | CDMA2000 (1x Advanced) | X | 0.50 | 60.79 | 7.93 | 0.00 | 150.0 | ± 9.6 % |
| | | Y | 0.64 | 62.89 | 10.17 | | 150.0 | |
| | | Z | 0.50 | 60.83 | 7.99 | | 150.0 | |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | X | 3.55 | 66.81 | 16.13 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 3.97 | 68.09 | 17.10 | | 80.0 | |
| | | Z | 3.49 | 66.41 | 16.10 | | 80.0 | |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | X | 4.10 | 66.10 | 16.44 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.44 | 67.21 | 17.15 | | 80.0 | |
| | | Z | 4.04 | 65.91 | 16.40 | | 80.0 | |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | X | 4.10 | 65.77 | 16.48 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.40 | 66.84 | 17.14 | | 80.0 | |
| | | Z | 4.04 | 65.58 | 16.43 | | 80.0 | |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | X | 4.17 | 65.74 | 16.53 | 2.23 | 80.0 | ± 9.6 % |
| | | Y | 4.46 | 66.82 | 17.18 | | 80.0 | |
| | | Z | 4.11 | 65.55 | 16.47 | | 80.0 | |
| 10658-AAA | Pulse Waveform (200Hz, 10%) | X | 75.07 | 110.20 | 27.10 | 10.00 | 50.0 | ± 9.6 % |
| | | Y | 100.00 | 114.77 | 28.62 | | 50.0 | |
| | | Z | 100.00 | 113.64 | 27.73 | | 50.0 | |
| 10659-AAA | Pulse Waveform (200Hz, 20%) | X | 100.00 | 110.55 | 25.39 | 6.99 | 60.0 | ± 9.6 % |
| | | Y | 100.00 | 111.82 | 26.31 | | 60.0 | |
| | | Z | 100.00 | 110.88 | 25.38 | | 60.0 | |

Certificate No: EX3-3801_Jun18

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.

EX3DV4- SN:3801

June 26, 2018

| | | | | | | | | |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 107.54 | 22.75 | 3.98 | 80.0 | ± 9.6 % |
| | | Y | 100.00 | 110.49 | 24.46 | | 80.0 | |
| | | Z | 100.00 | 108.31 | 22.90 | | 80.0 | |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 104.54 | 20.30 | 2.22 | 100.0 | ± 9.6 % |
| | | Y | 100.00 | 111.15 | 23.54 | | 100.0 | |
| | | Z | 100.00 | 104.99 | 20.30 | | 100.0 | |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 5.09 | 77.36 | 11.00 | 0.97 | 120.0 | ± 9.6 % |
| | | Y | 100.00 | 111.11 | 21.88 | | 120.0 | |
| | | Z | 1.05 | 68.52 | 8.18 | | 120.0 | |

* Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

- 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.