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TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE + GNSS FPC ANTENNA

Series: Internal Antenna

PART NUMBER: W6113XXXXX



Features:

- 2G / 3G / 4G MiMo
- Global LTE Bands:
  - B1-B23, B25-B29, B33-B42
  - N.A.; Europe, Asia (incl. Jap.)
- GNSS (GPS, Glonass)
- Single device
  - Guaranteed Port-to-Port Isolation
- Foldable for tight spaces

Applications:

- Challenging RF Environments Demanding:
  - Highest Peak Gain
  - Lowest ECC (Envelope Correlation Coeff.).
- Matched to Radio Modules from:
  - Sierra Wireless, Telit, Huawei, Gemalto, uBlox, ZTE, and others.
- Security, Video, Graphics
- IoT, SmartGrid, Meters, Remote Monitoring, Sensor Networks
- Transportation, Tracking

All dimensions are in mm / inches

Issue: 2045

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Jiangsu Province, Suzhou 215009 PR China
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ELECTRICAL SPECIFICATIONS

LTE1 & LTE2 :

Frequency	698-960/1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600 MHz
Nominal Impedance	50Ω
Return loss(698-960MHz)	-6dB
Return loss(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz)	-7.5dB
Isolation(698-960MHz)	-10dB
Isolation(1427.9-1510.9/1559-1610/ 1695-2200/2300-2700/3400-3600MHz)	-13dB
Average Total Efficiency (698-960MHz)	55%
Average Total Efficiency (1427.9-1510.9MHz)	60%
Average Total Efficiency (1559-1610MHz)	60%
Average Total Efficiency (1695-2200MHz)	65%
Average Total Efficiency (2300-2700MHz)	70%
Average Total Efficiency (3400-3600MHz)	65%

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ELECTRICAL SPECIFICATIONS

Peak Gain (698-960MHz)	2.9dBi
Peak Gain (1427.9-1510.9MHz)	1.7dBi
Peak Gain (1559-1610MHz)	1.8dBi
Peak Gain (1695-2200MHz)	3.4dBi
Peak Gain (2300-2700MHz)	3.8dBi
Peak Gain (3400-3600MHz)	4.2dBi
GNSS :	
Frequency	1570-1610MHz
Nominal Impedance	50Ω
Return loss (1570-1610MHz)	-10dB
Average Total Efficiency (1570-1610MHz)	35%
Peak Gain (1570-1610MHz)	0.8dBi
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	3W
Connector type	U.FL compatible
Cable type	Low loss Φ1.13mm Coaxial Cable

(*) All RF parameters measured on 2mm thick PC plate

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MECHANICAL SPECIFICATIONS

Color	Black
Weight	3.5 g
Cable type	OD 1.13mm coax cable
Cable length	SEE Page 6
Connector	U.FL compatible
Fixing system	Adhesive 3M467

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C

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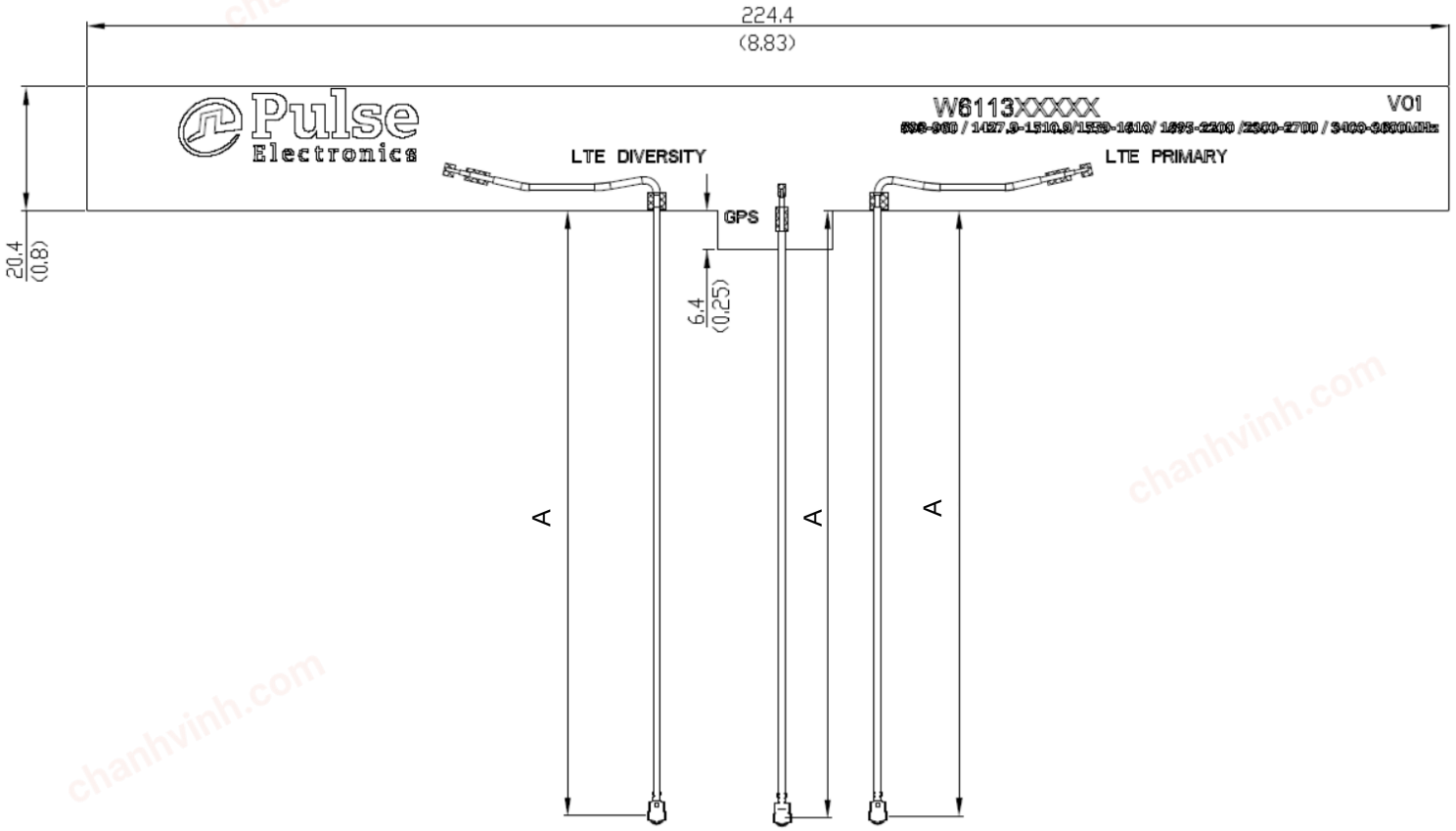
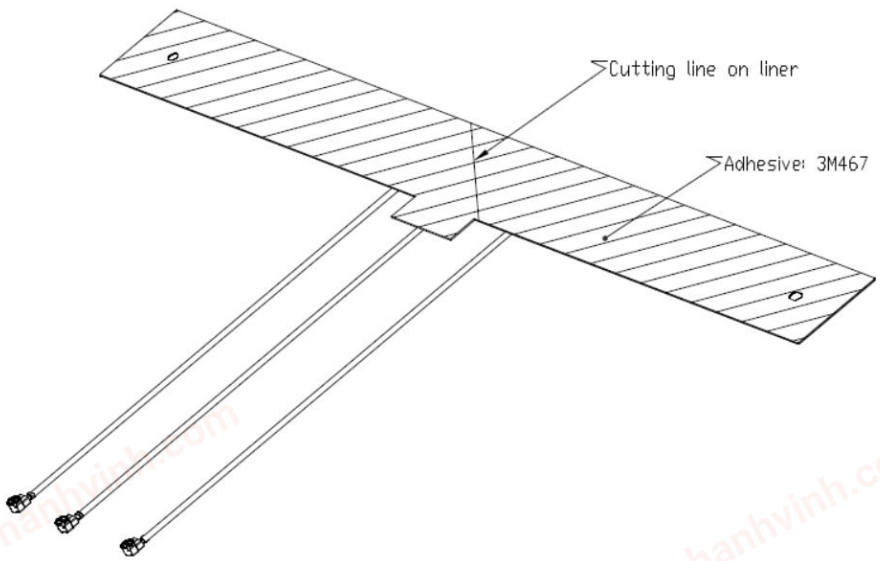
MECHANICAL DRAWING





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PART NUMBER: W6113XXXXX

Item	Part Number	Cable length “A” (mm/inch)
1	W6113B0100	100/3.94
2	W6113B0130	130/5.12

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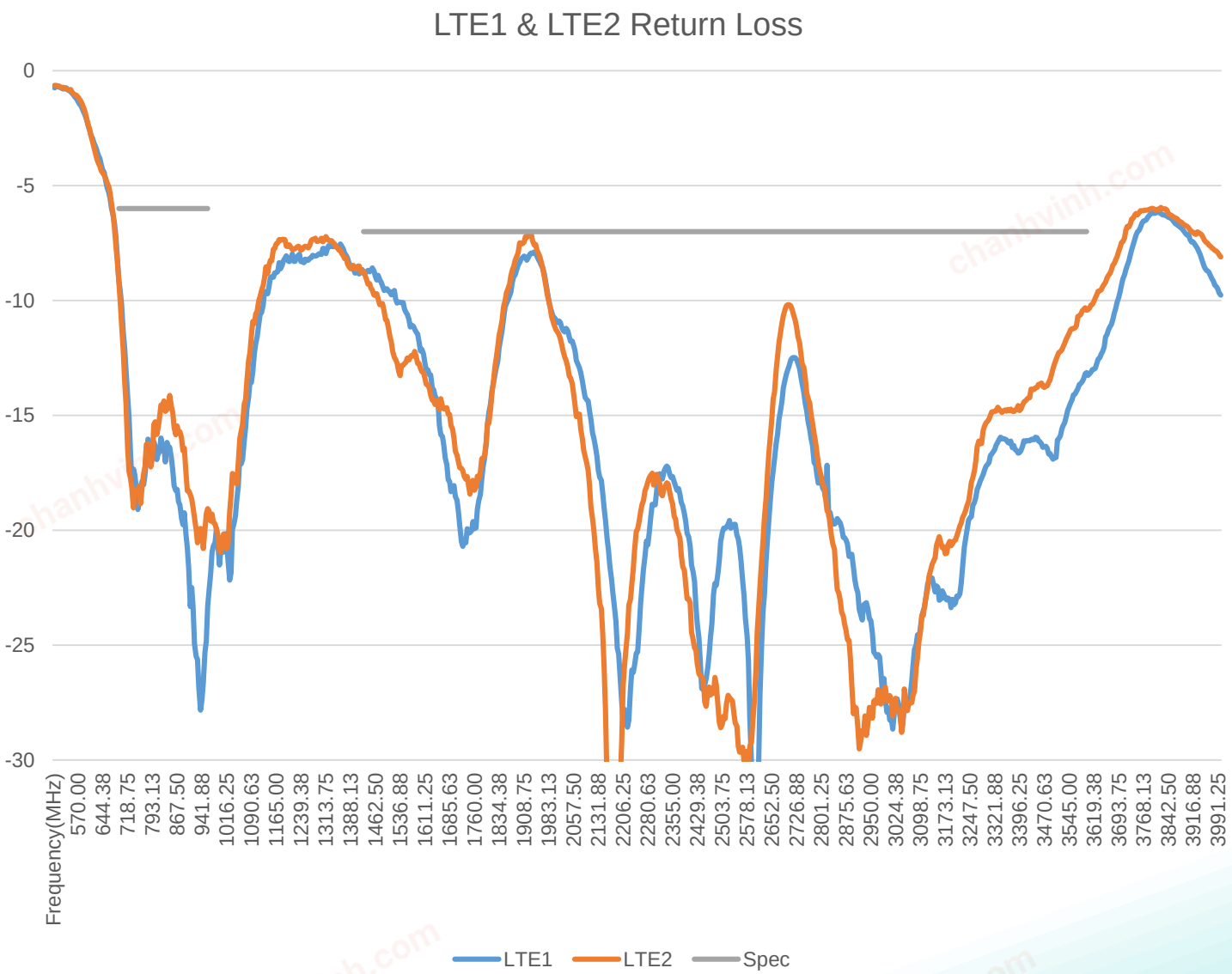
PART NUMBER: W6113XXXXX

CHARTS

Return Loss [dB]



Note : All test results measured with 100mm cable length

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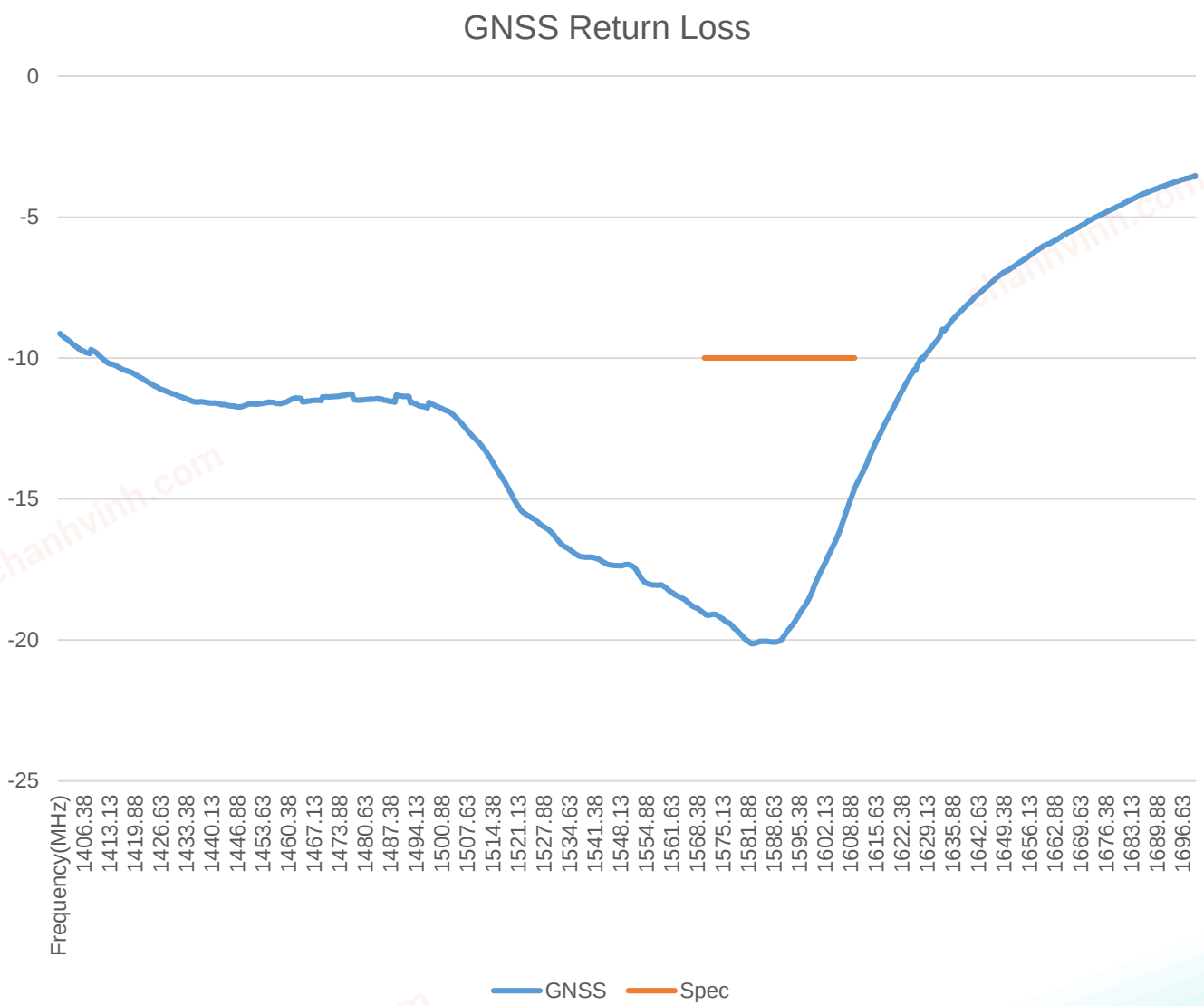
CHARTS

Return Loss [dB]



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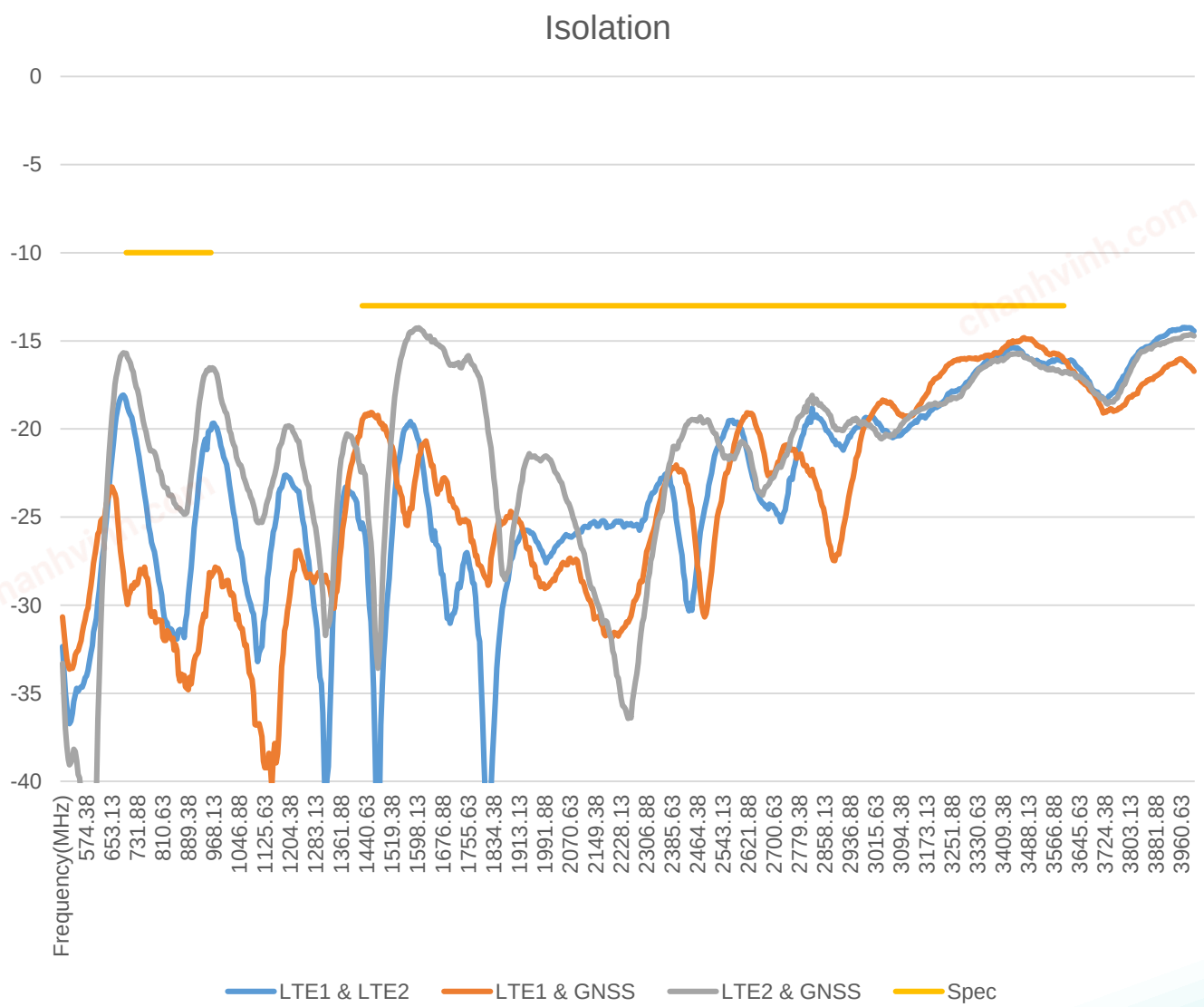
CHARTS

Isolation [dB]



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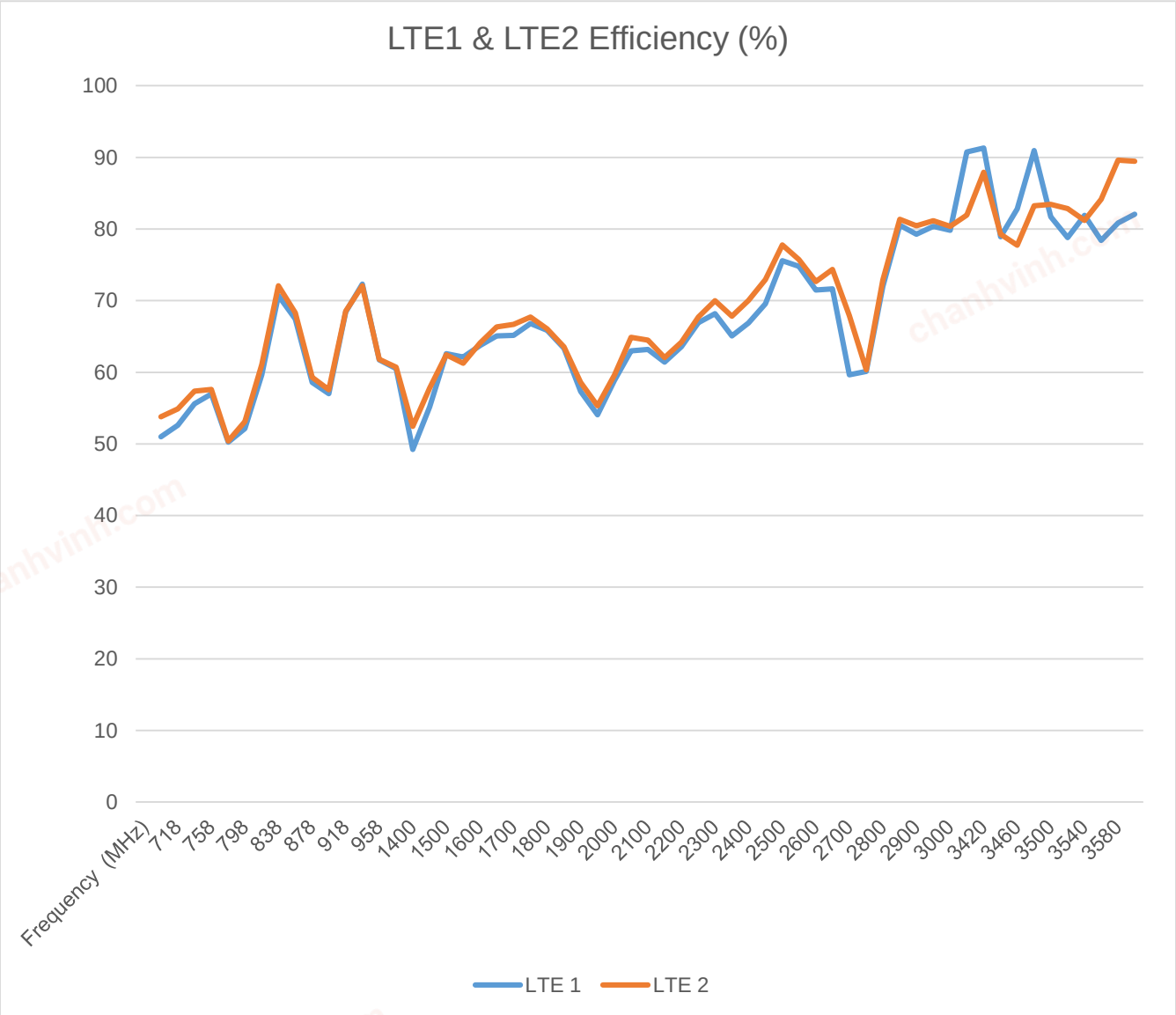
CHARTS

Efficiency(%)



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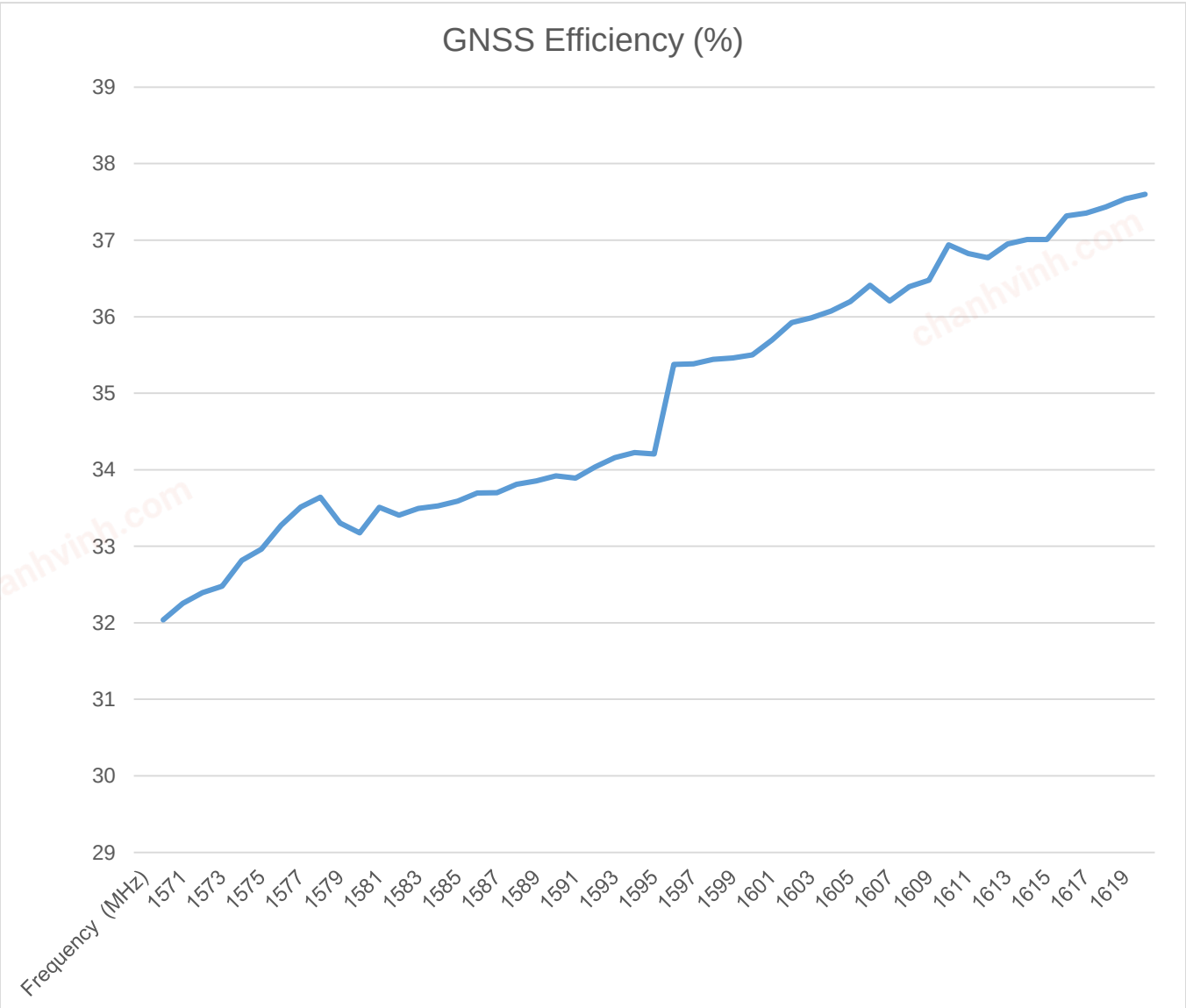
Efficiency(%)



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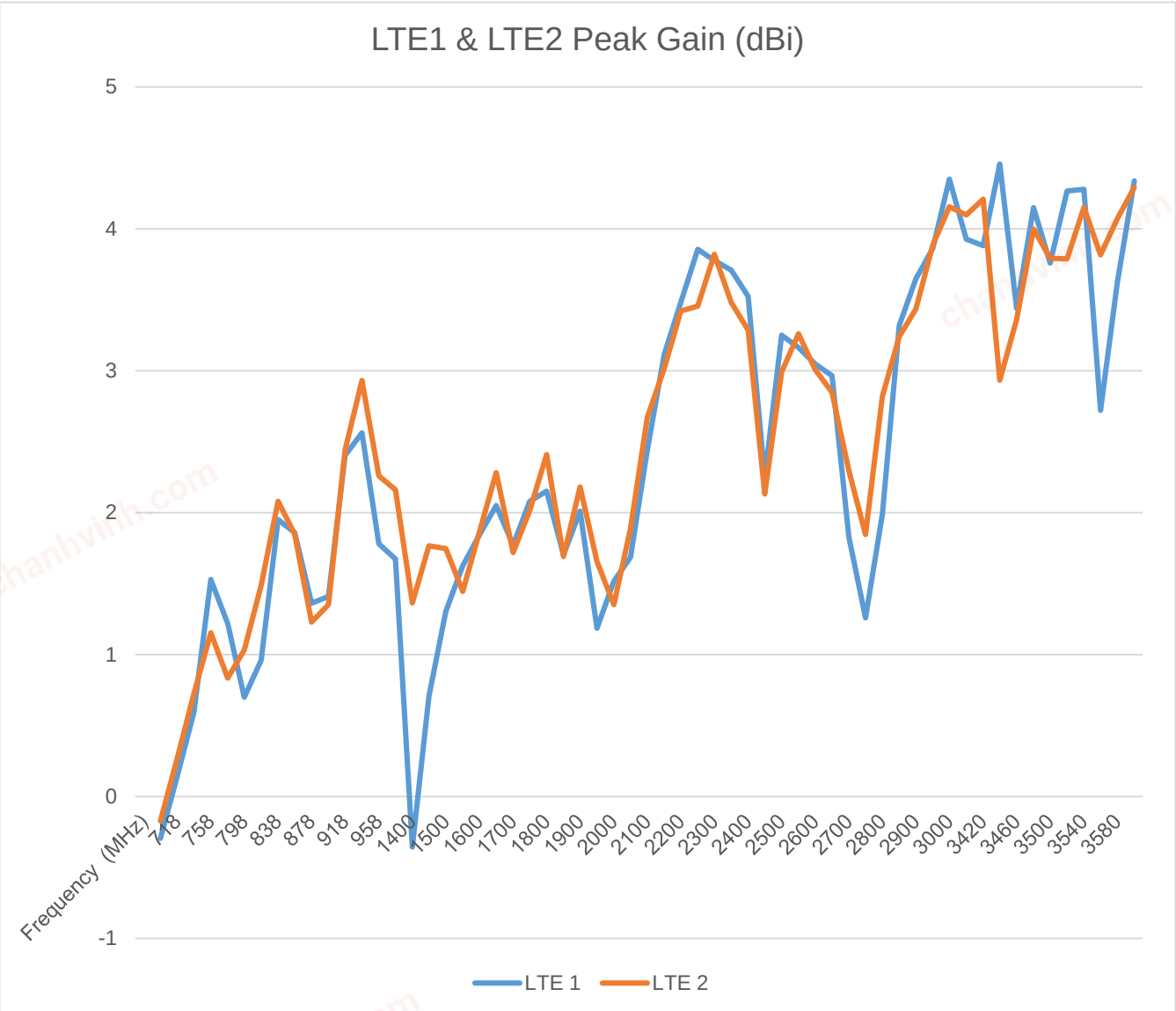
CHARTS

Peak Gain(dBi)



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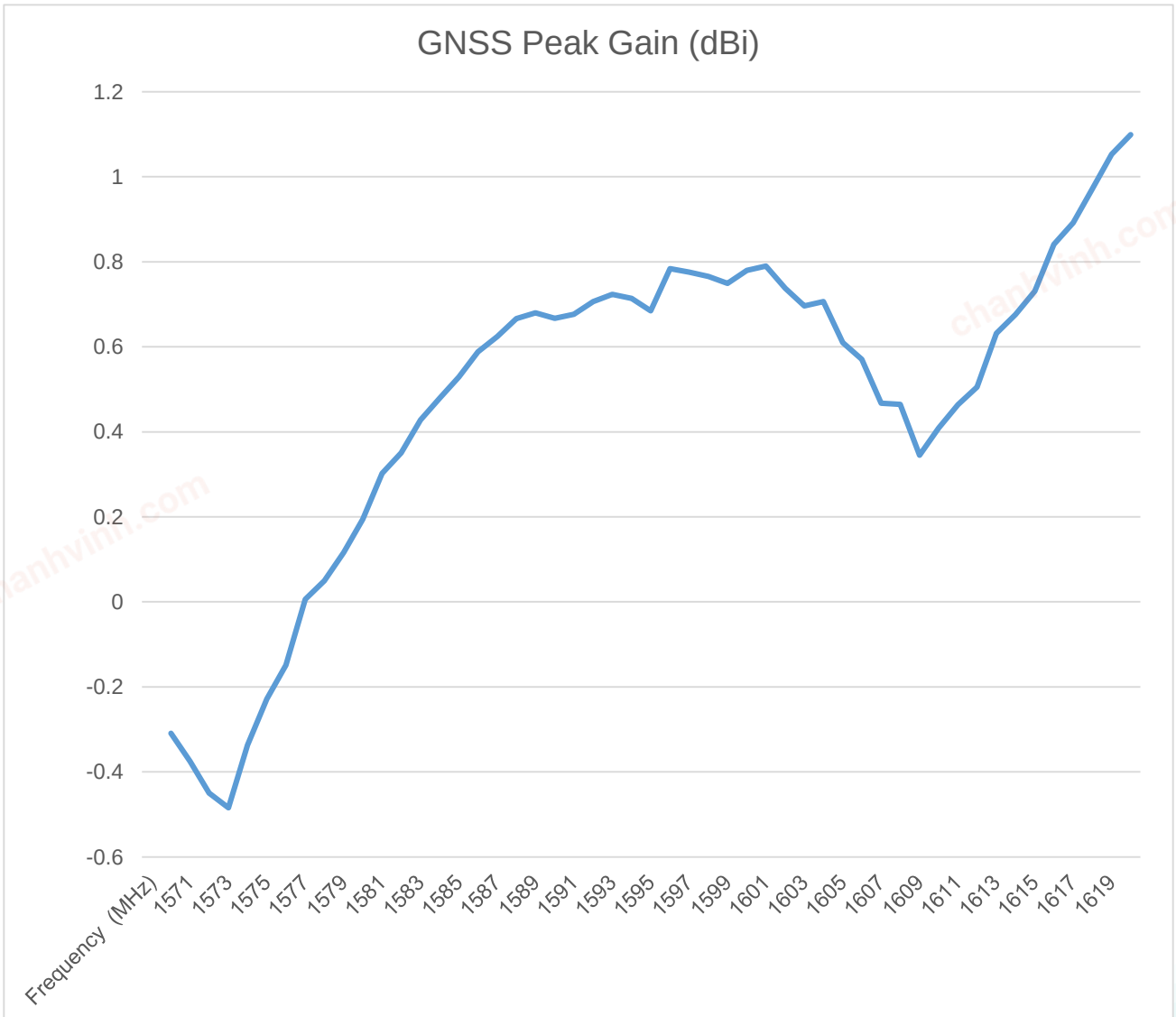

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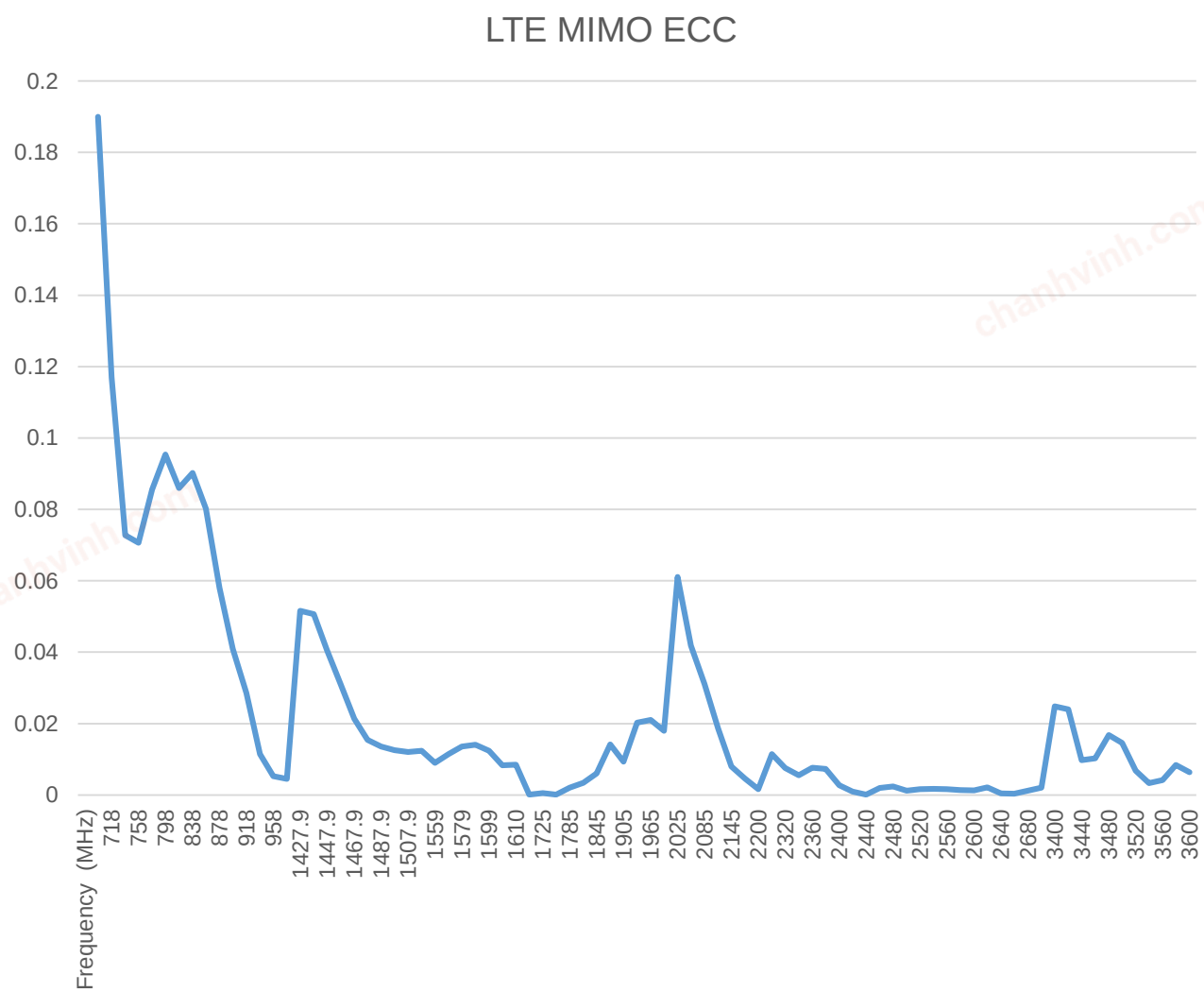
CHARTS

ECC



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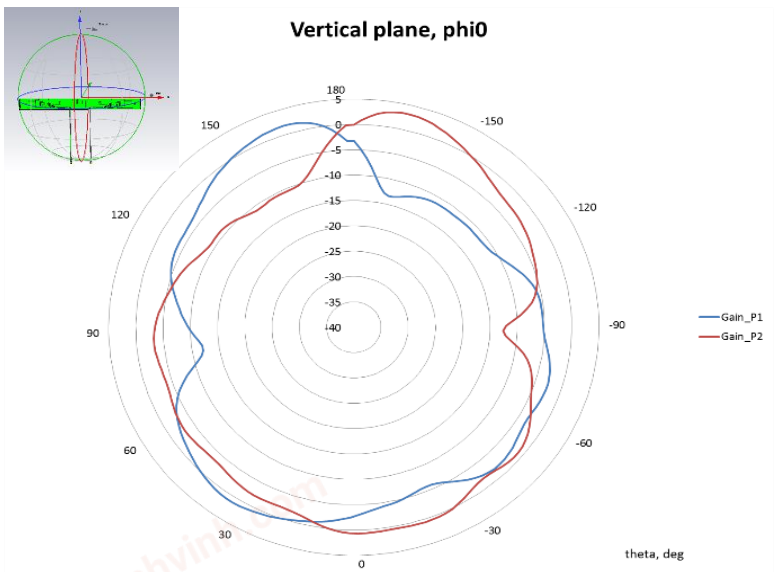
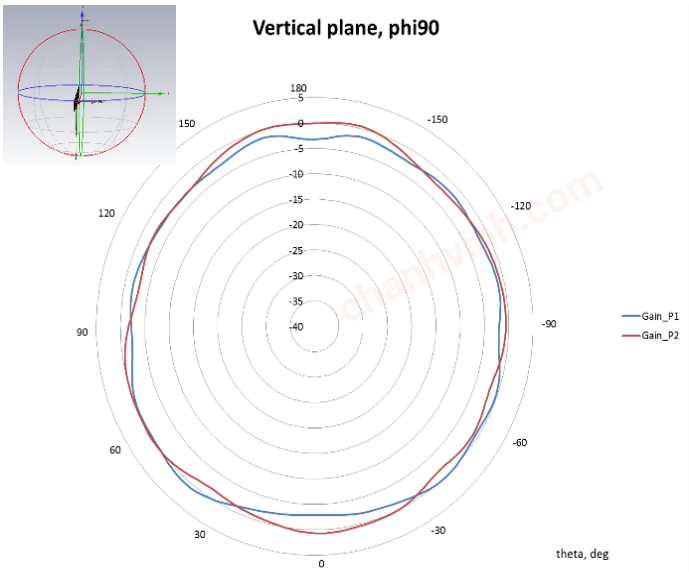
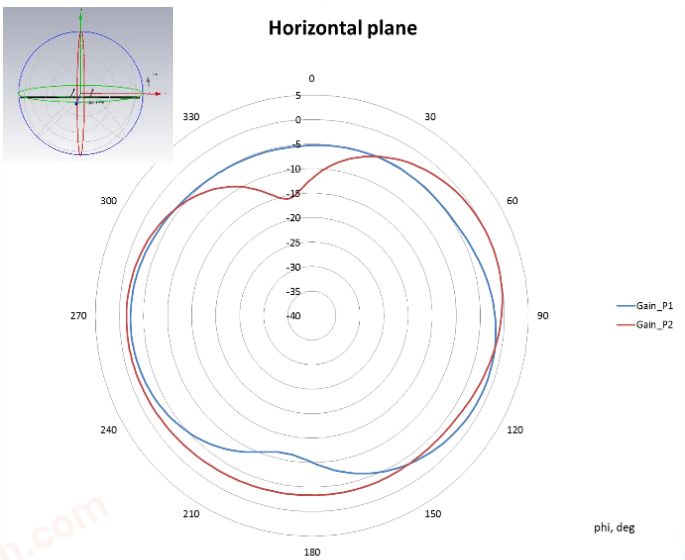
CHARTS

LTE1 & LTE2 radiation pattern
698-960MHz
(800MHz)







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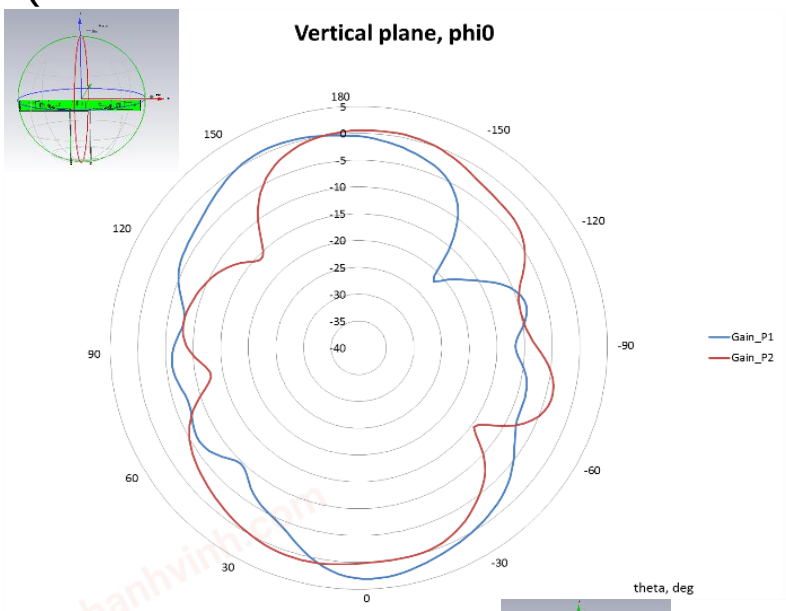
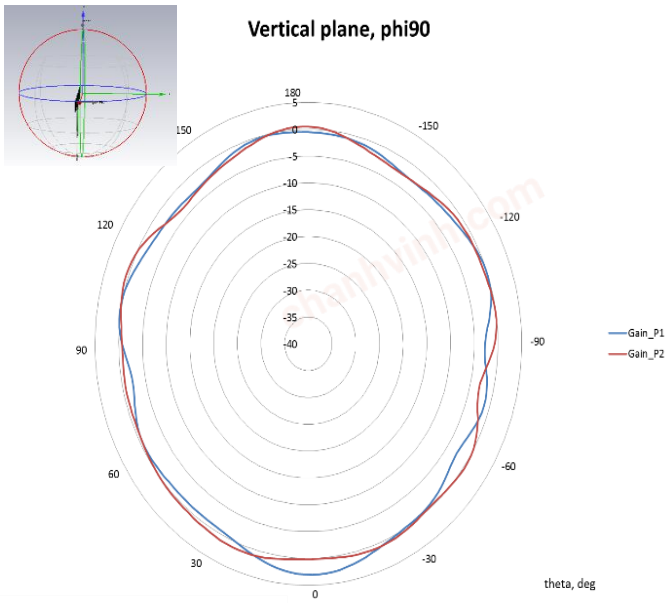
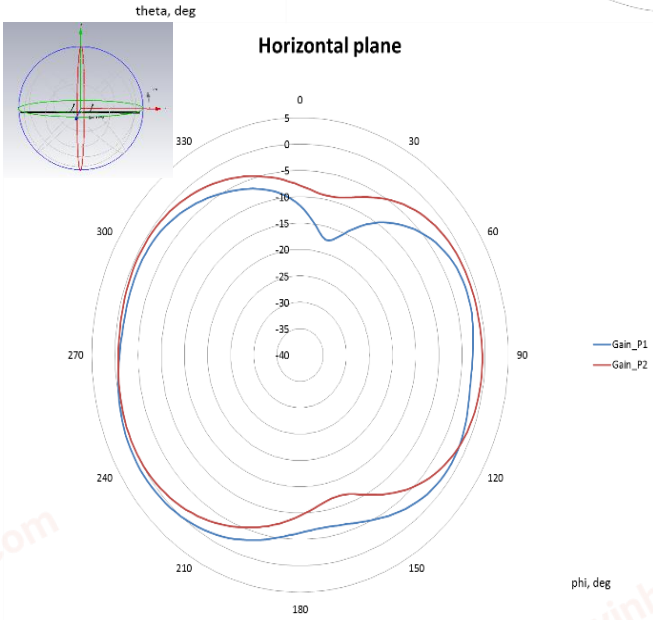
CHARTS

LTE1 & LTE2 radiation pattern
1427.9-1510.9MHz
(1450MHz）







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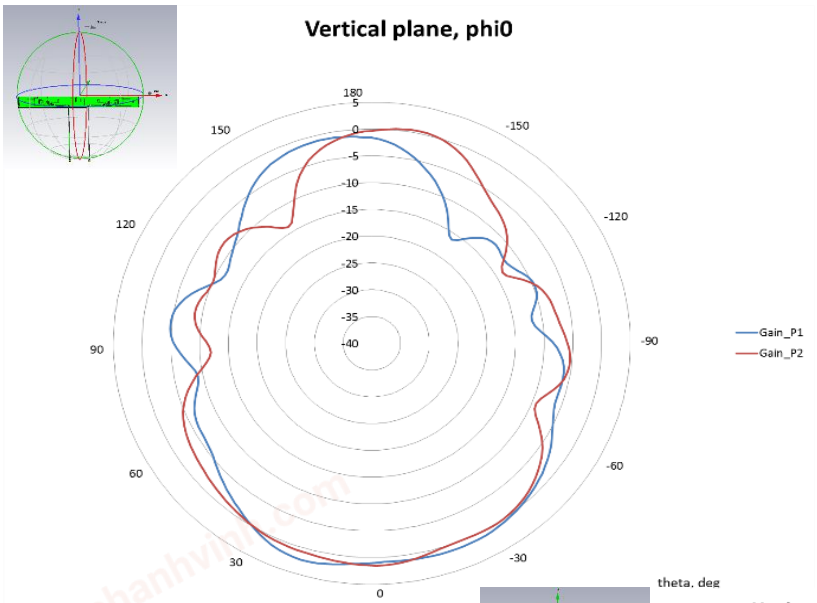
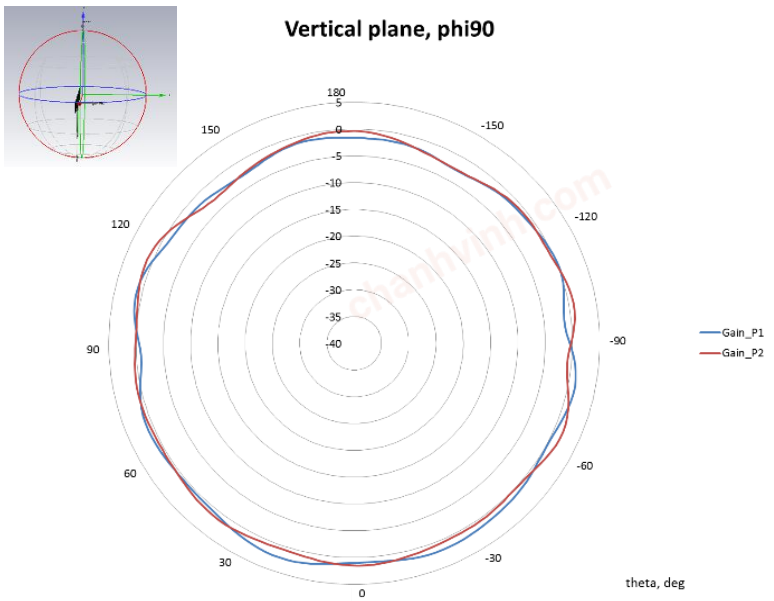
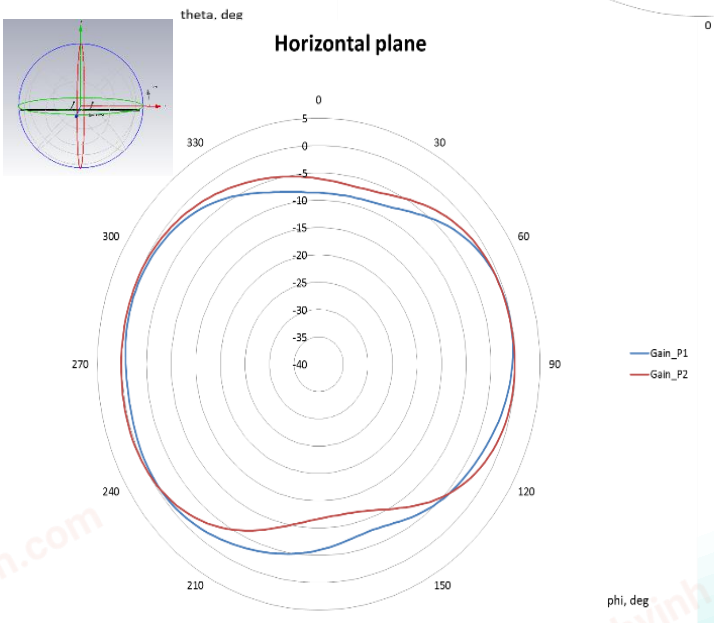
CHARTS

LTE1 & LTE2 radiation pattern
1559-1610MHz
(1570MHz)







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Issue: 2045

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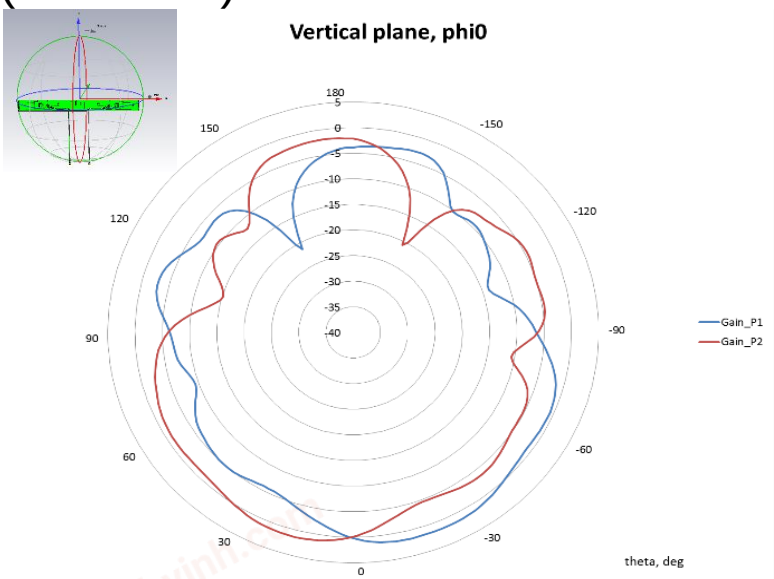
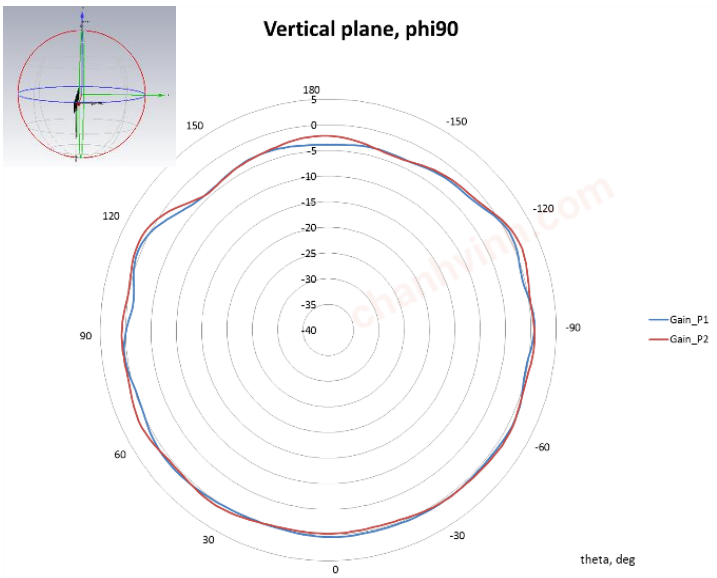
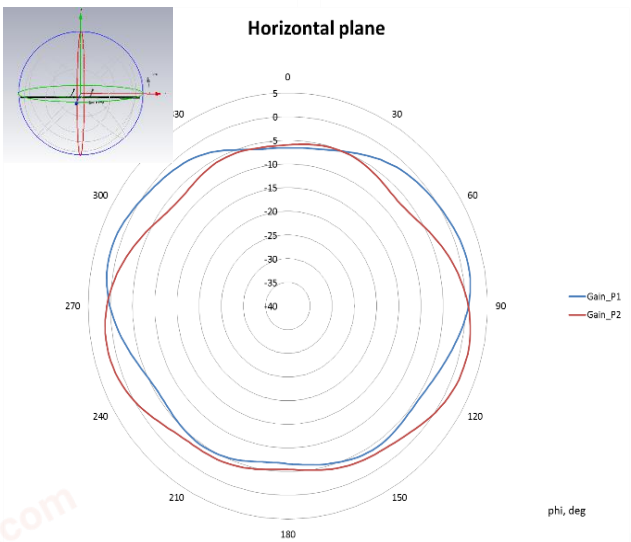
CHARTS

LTE1 & LTE2 radiation pattern
1695-2200MHz
(1930MHz)







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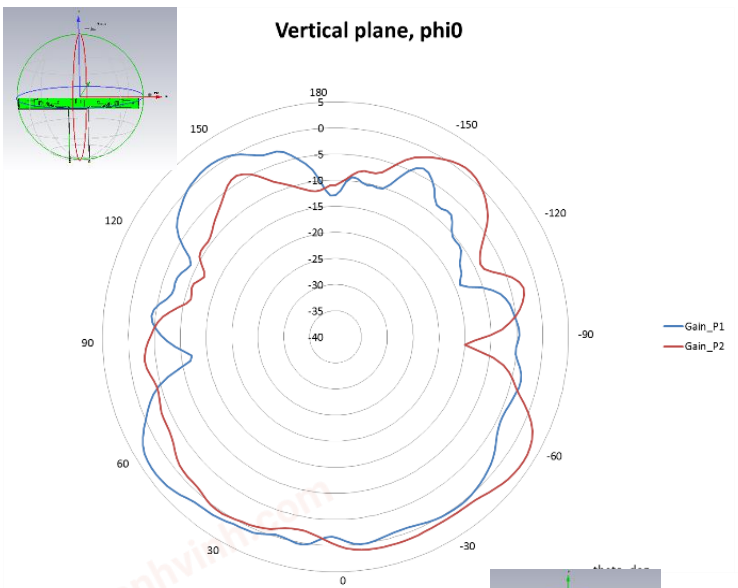
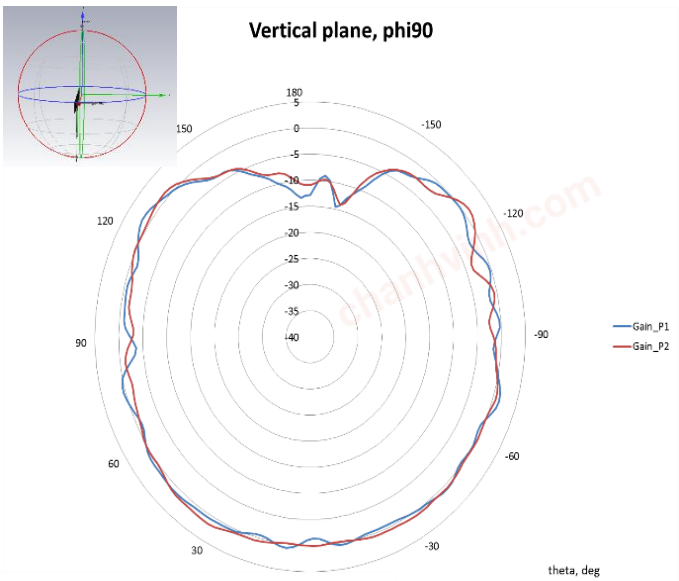
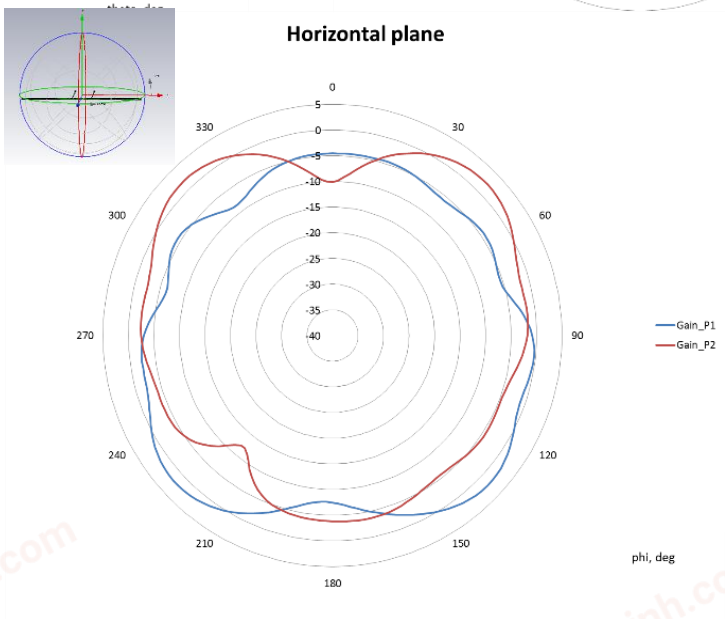
CHARTS

LTE1 & LTE2 radiation pattern
2300-2700MHz
(2390MHz)







Note : All test results measured with 100mm cable length

Issue: 2045

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RoHS COMPLIANT

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Pulse
a YAGEO company

Series: Internal Antenna

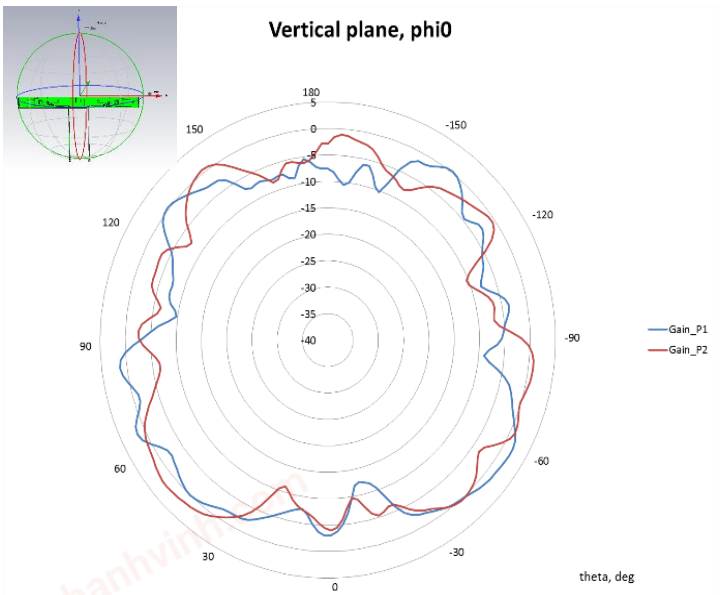
TECHNICAL DATA SHEET

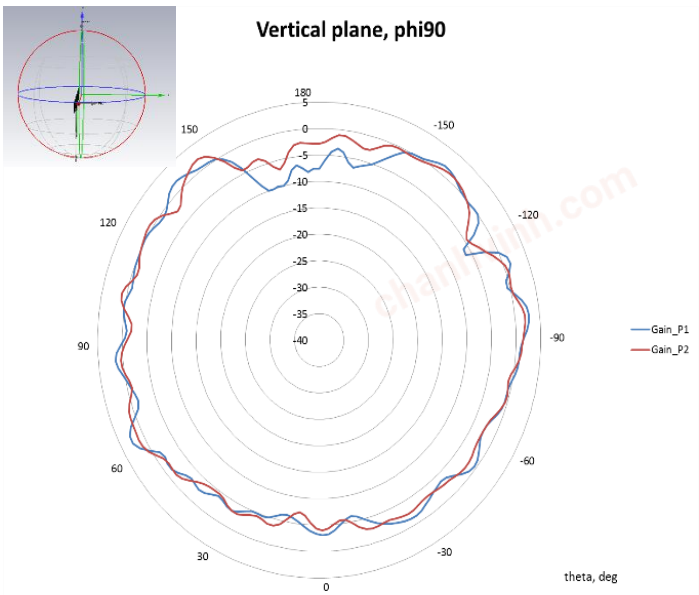
Description: 2x2 MIMO LTE + GNSS FPC ANTENNA

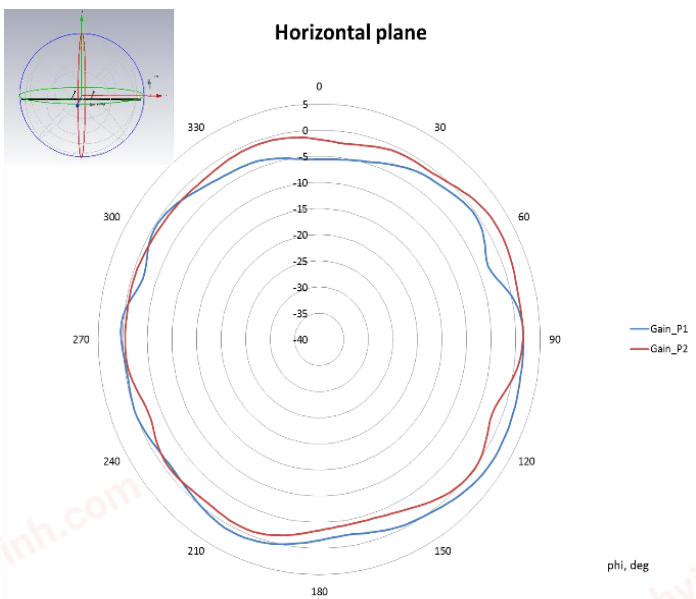
PART NUMBER: W6113XXXXX

CHARTS

LTE1 & LTE2 radiation pattern
3400-3600MHz
(3400MHz)







Note : All test results measured with 100mm cable length

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TECHNICAL DATA SHEET

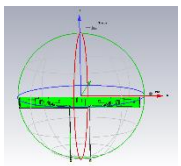
Description: 2x2 MIMO LTE + GNSS FPC ANTENNA

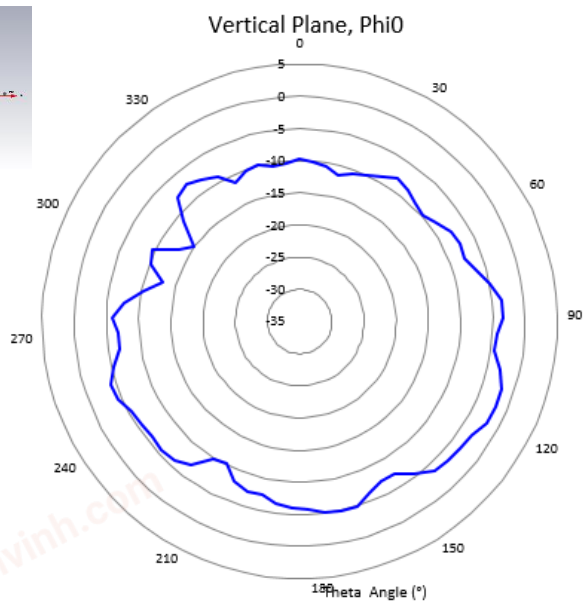
Series: Internal Antenna

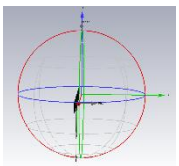
PART NUMBER: W6113XXXXX

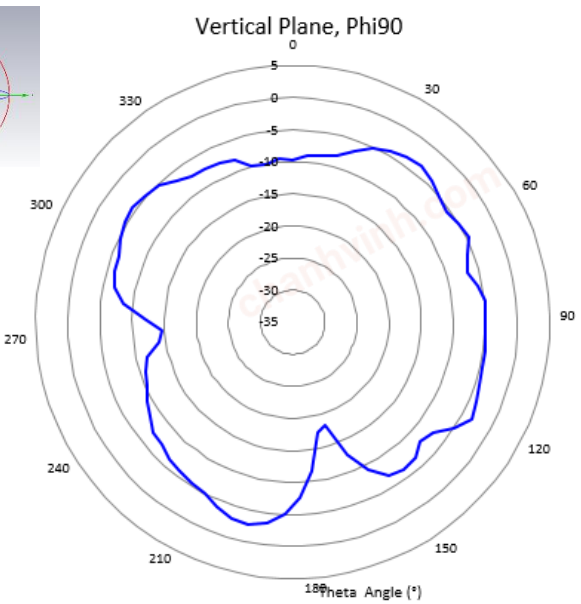
CHARTS

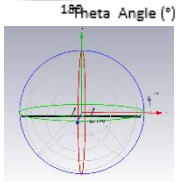
GNSS radiation pattern
1570-1610MHz
(1575MHz)

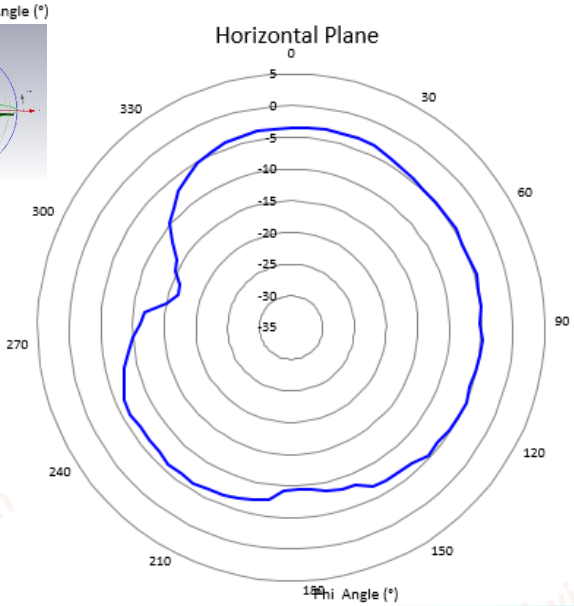












Note : All test results measured with 100mm cable length

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TECHNICAL DATA SHEET

Description: 2x2 MIMO LTE + GNSS FPC ANTENNA

Series: Internal Antenna

PART NUMBER: W6113XXXXX

PACKAGING

5PCS/PE bag
400 PE bag/foam bag
2 foam bag/ carton box

Total 4000PCS/Carton box





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