

02/04/2016

Telecommunication Certification Body  
UL VS Ltd  
Unit 3, Horizon  
Wade Road  
Kingsland Business Park  
Basingstoke  
Hampshire  
RG24 8AH  
United Kingdom

Subject: Attestation of compliance to FCC rules

FCC Number: 2AGKM820003-02

To whom it may concern

We, EGATEL S.L., hereby attest that the FCC ID: 2AGKM820003-02, falls under KDB 273109 D01, Guidance 2 and qualifies for FCC rule part 2.1033(c). According to FCC rule part 2.1033(c) and KDB 273109 D01, Guidance 2, we attest that:

- The equipment complies with FCC rule part 2.1091 as demonstrated in the RF exposure info exhibit filed with this application.
- For FCC rule part 25.129(c):
  - FCC rule parts 25.138 and 25.216 are not applicable as the frequency band of operation (13.75GHz to 14.5GHz) of this equipment does not fall within the frequency bands covered by these FCC rule parts.
  - FCC rule part 25.285 is not applicable as this equipment will not be installed on an aircraft.
  - The equipment complies with FCC rule part 25.202(f) as demonstrated in the test report filed with this application.
  - The equipment complies with FCC rule part 25.204 as demonstrated in the test report filed with this application.
- The equipment complies with FCC rule part 25.129(d) as detailed in the Operational Description filed with this application.
- FCC rule part 25.136(h) is not applicable as this rule part does not exist anymore.
- According to the attached antenna plots provided by the original manufacturer, the antenna complies with FCC rule part 25.209 (a)(2)

Yours faithfully,

  
Javier Taibo Gallego  
CEO

  
N.I.F. B-32151532

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# Antenna 75x80cm SmartLNB

**Antenna Design Parameters:**

Horizontal Effective Reflection Diameter – **75cm**

Vertical Effective Reflection Diameter – **80cm**

Aperture Diameter – **75cm**

f/D – **0,78**

**Feed Parameters:**

f/D – **0,78**

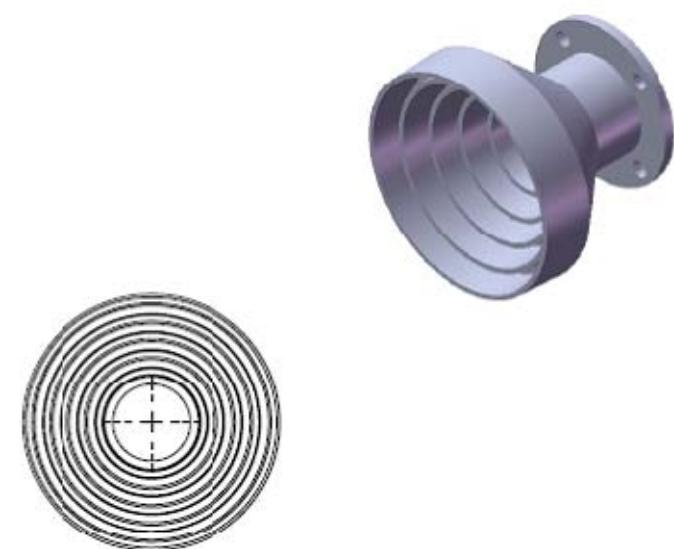
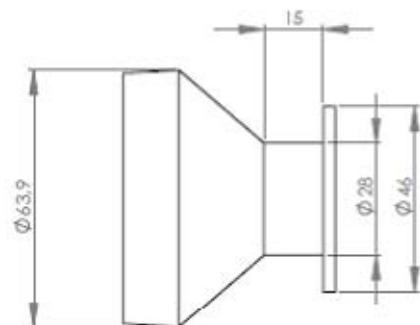
Interface Diameter – **23mm**

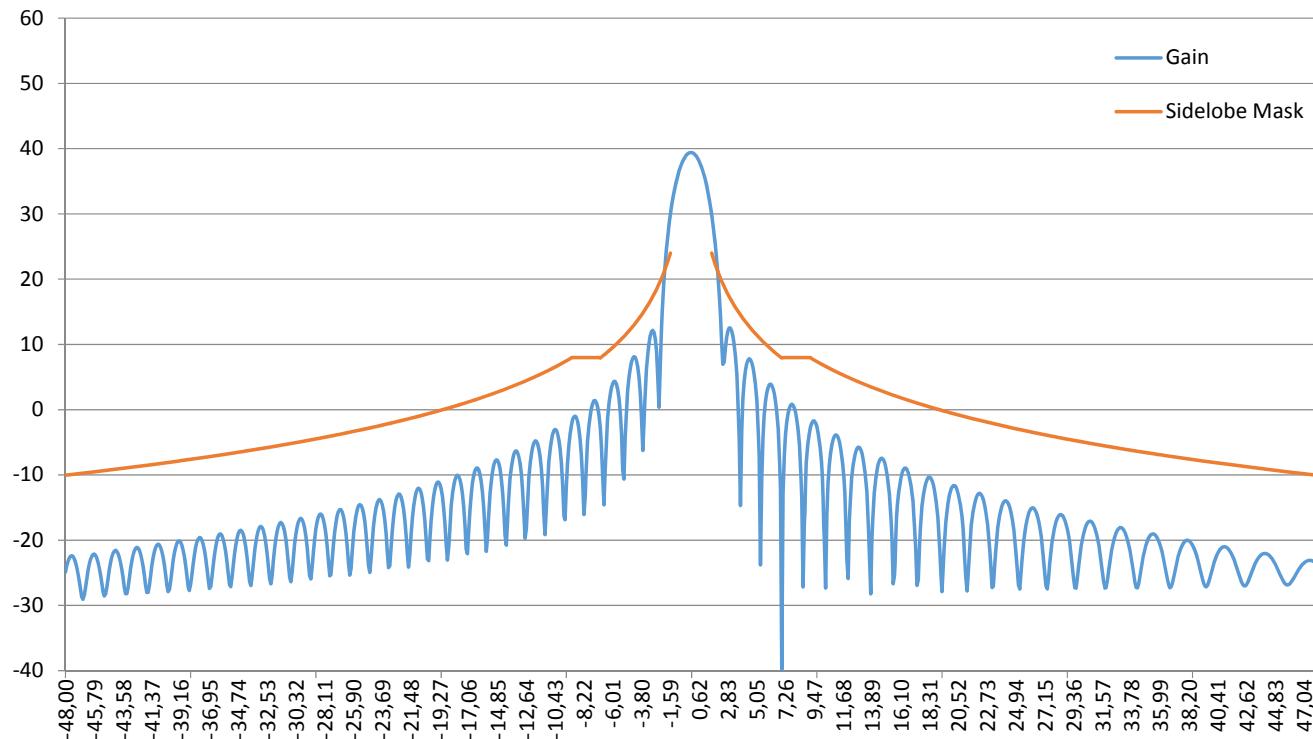
Interface type – **WR75**

### Feed Parameters

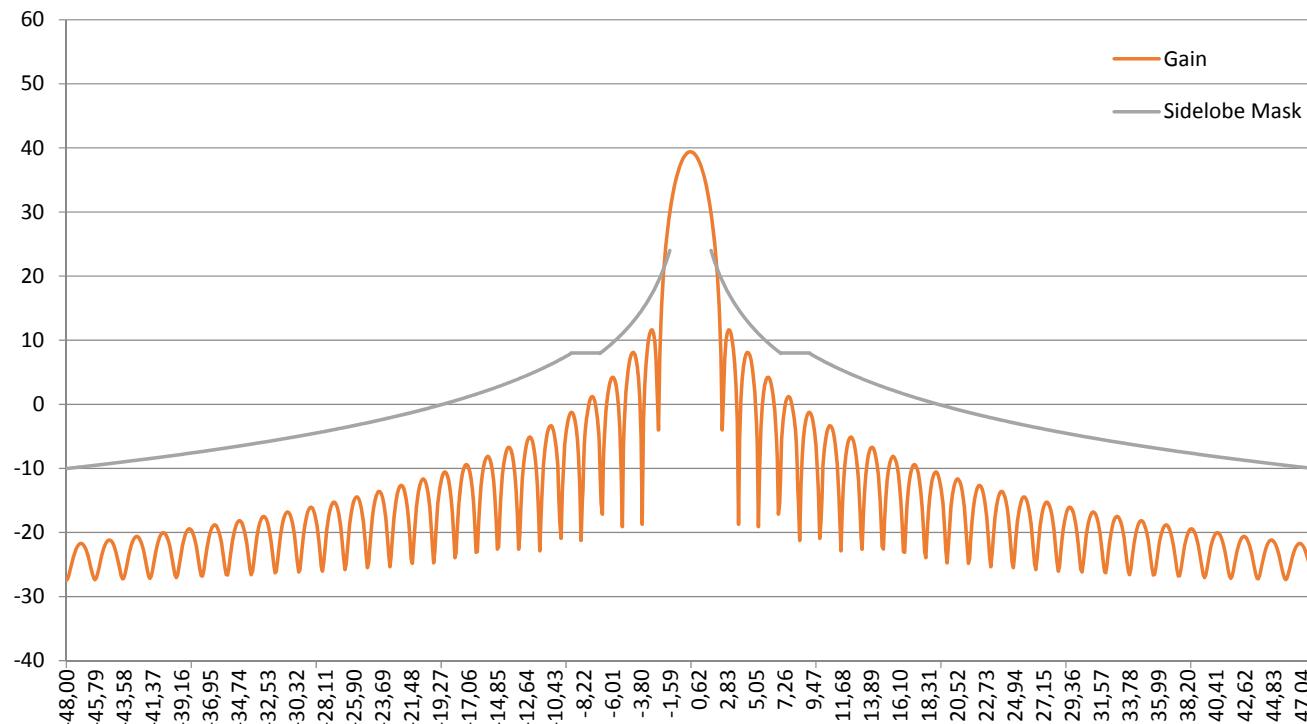
<b>Frequency bands</b>	RX=Ku (10.7 - 12.75 GHz) TX=Ku (13.75 - 14.5 GHz)
<b>Reflector type</b>	Offset, f/D 0,78
<b>VSWR</b>	< 1.2:1
<b>Polarization</b>	Co-polar Linear

Frequency (GHz)	Gain (dBi)
<b>11,00</b>	<b>13.1</b>
<b>12,00</b>	<b>14.1</b>
<b>13,00</b>	<b>14.8</b>
<b>14,00</b>	<b>15.1</b>

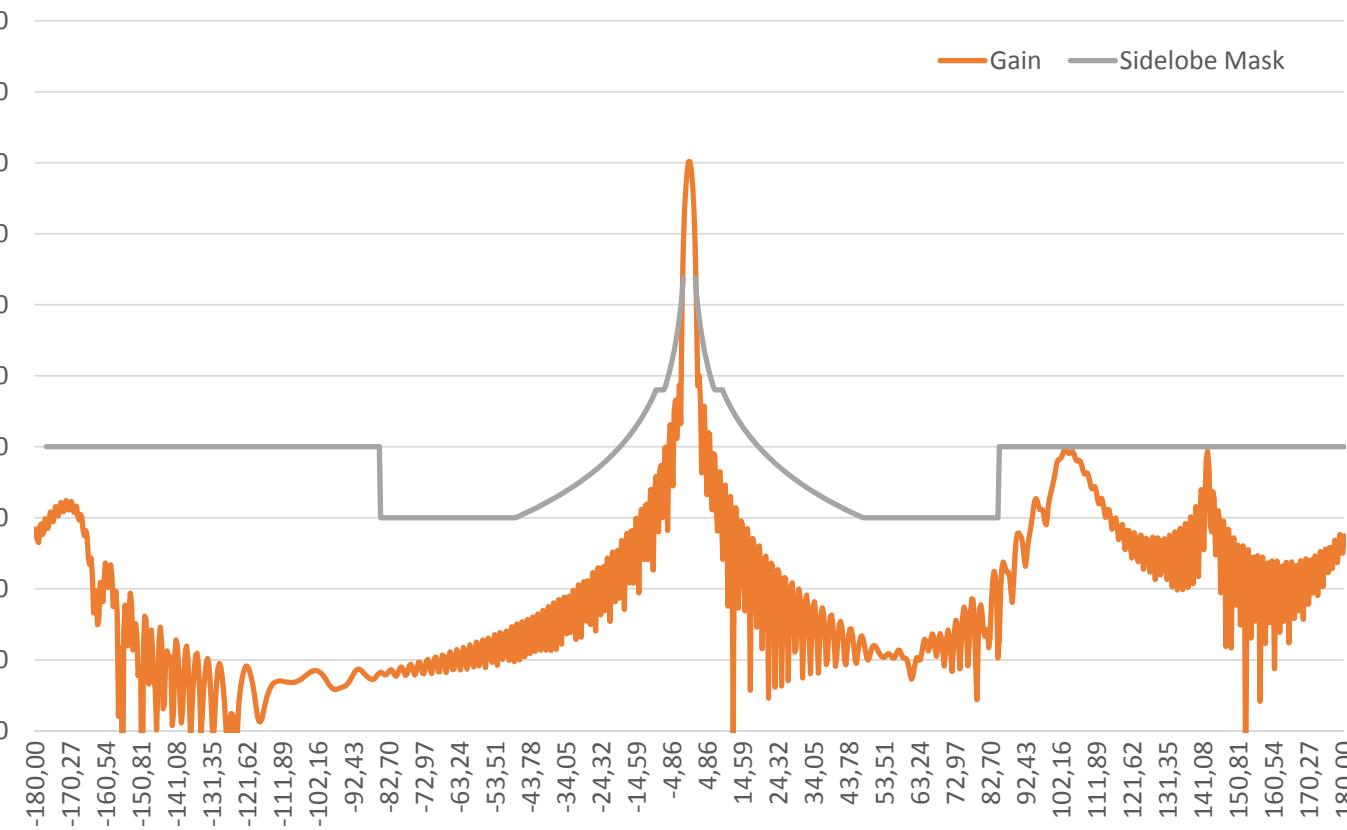


**Radiation Pattern - Linear - Frequency : 14,5 GHz – TX - Horizontal**

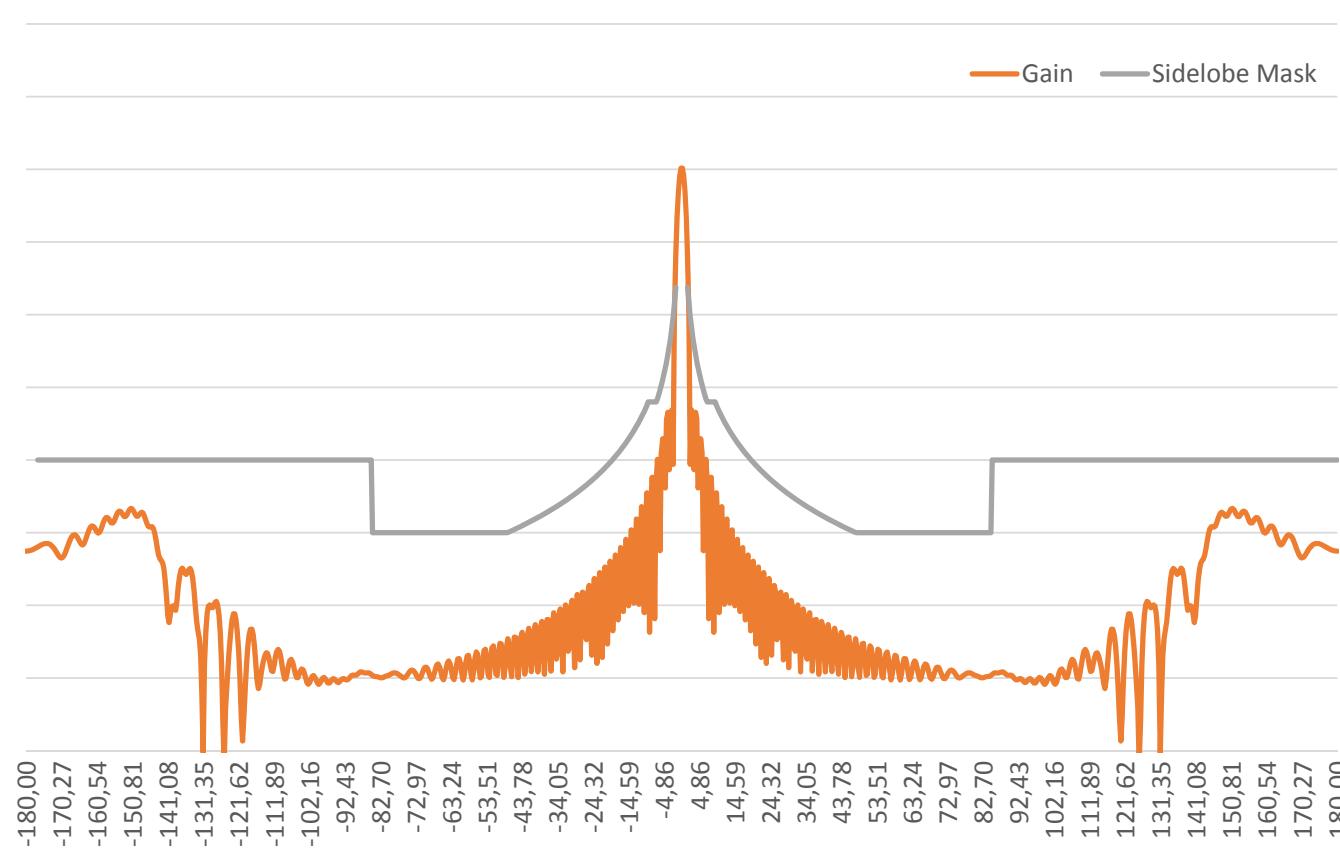
Frequency [GHz]	Gain [dBi]	HPBW 3dB
14,500	39,40	1,83

**Radiation Pattern - Linear - Frequency : 14,5 GHz – TX - Vertical**

Frequency [GHz]	Gain [dBi]	HPBW 3dB
14,500	39,40	1,83

**Radiation Pattern - Linear - Frequency : 14,5 GHz – TX – Horizontal – -180 to 180°**


SIDE LOBE MASK PARAMETERS	
29-25log $(\Theta)$ dBi for	1,5 < $\Theta$ < 7
8 dBi for	7 < $\Theta$ < 9,2
32-25log $(\Theta)$ dBi for	9,2 < $\Theta$ < 48
-10dBi for	48 < $\Theta$ < 85
0 dBifor	$\Theta$ > 85

**Radiation Pattern - Linear - Frequency : 14,5 GHz – TX – Vertical – -180 to 180°**


SIDE LOBE MASK PARAMETERS	
29-25log $(\Theta)$ dBi for	1,5 < $\Theta$ < 7
8 dBi for	7 < $\Theta$ < 9,2
32-25log $(\Theta)$ dBi for	9,2 < $\Theta$ < 48
-10dBi for	48 < $\Theta$ < 85
0dBi for	$\Theta$ > 85



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