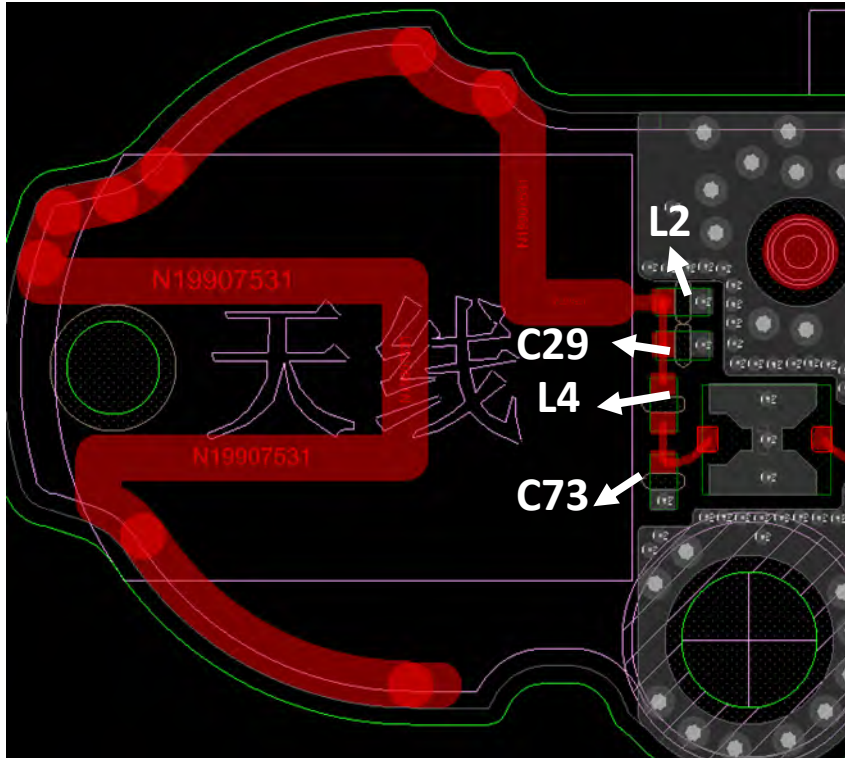


DVT dongle data

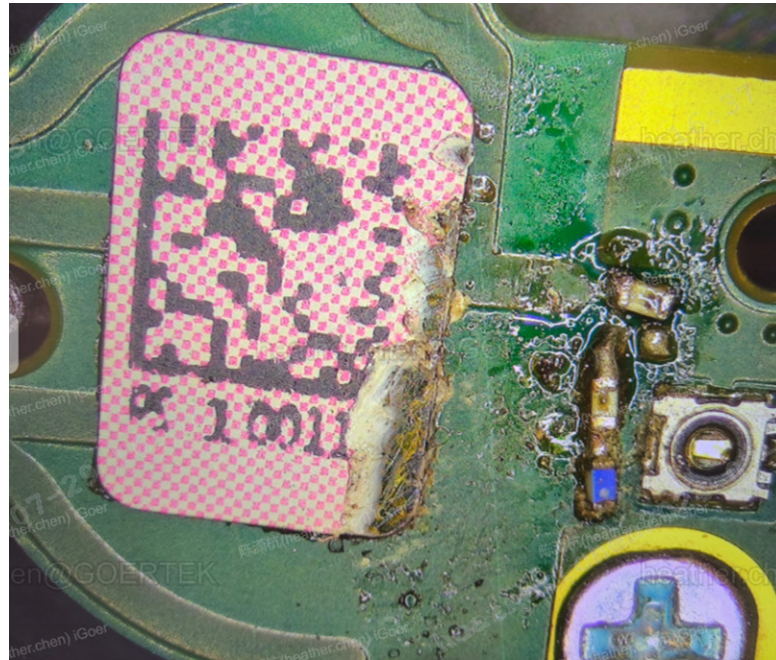
■ Dongle:

1. Antenna form: monopole antenna.
2. Antenna matching: L2 and 33nH inductance, L4 series 1nH; It's 3.6nH at C73.
3. TRP/TIS: The average TRP is 5.7dB and the average TIS is -88.2dB when plugged into an ordinary computer; Plug-in metal laptop TRP average 7.3dB, TIS average -89.6dB.



■ Competing Dongle:

1. TRP/TIS: The average value of TRP when plugged into an ordinary computer is 5.4dB; Insert metal laptop TRP average 6.5dB, TIS average -89dB.

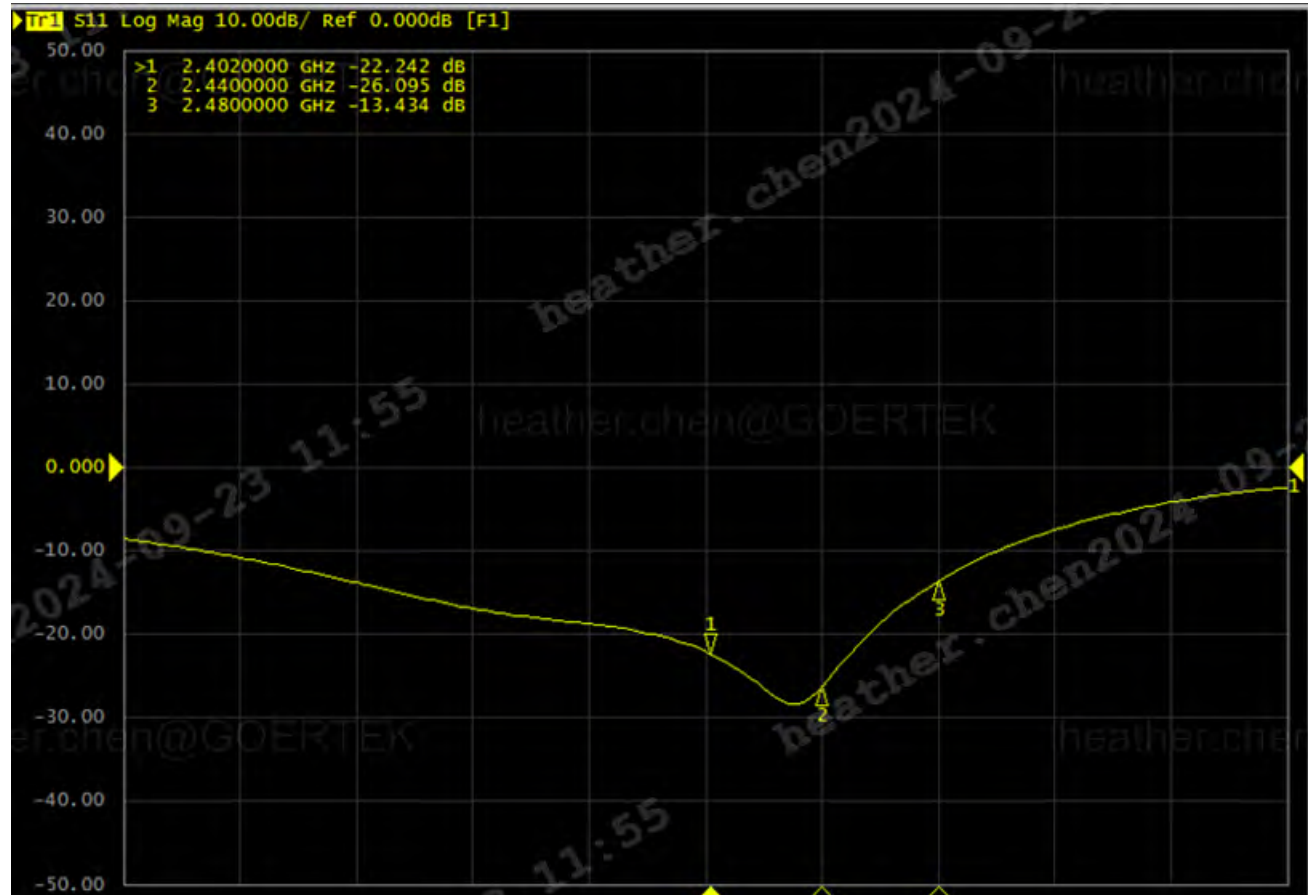


Conclusion:

DVT dongle is slightly better than its competitors in objective laboratory data.

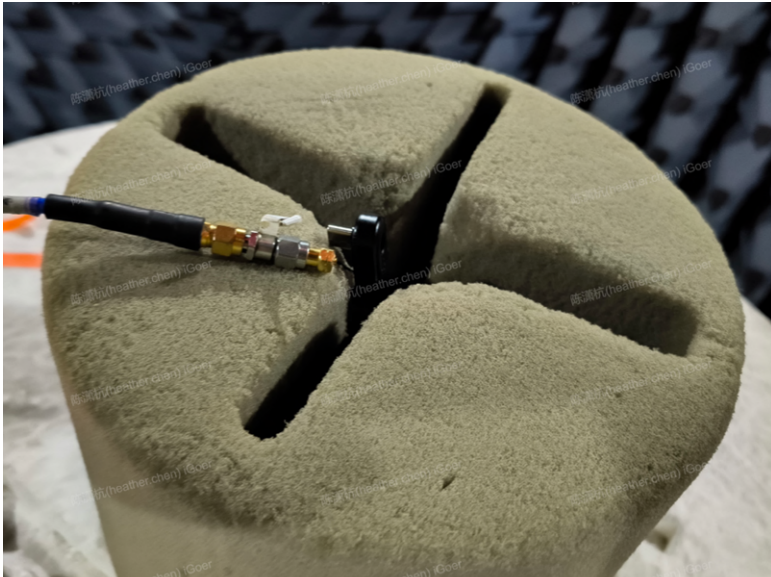
DVT dongle antenna data

■ Dongle IC S11:



DVT dongle antenna data

■ Free space Passive test:



dongle Antenna		
Frequency	Efficiency(dB)	Authentication reference gain(dBi)
2.402GHz	-3.46	-1.27
2.44GHz	-3.69	-1.49
2.48GHz	-3.51	-1.34

The antenna gain required for authentication shall be based on this table

DVT dongle antenna data

■ Dongle metal computer status test environment :

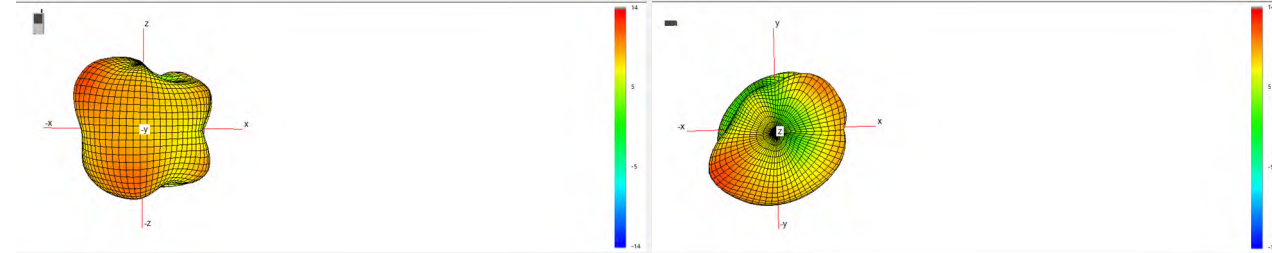


cable was used to connect the dark room with passive fixtures

DVT dongle antenna data

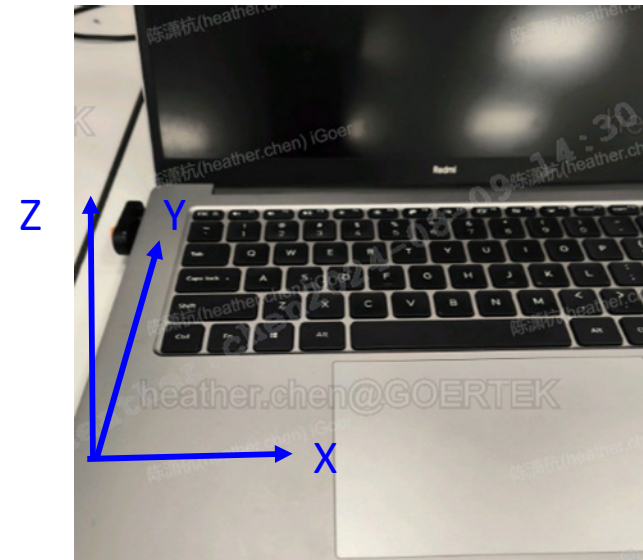
■ metal computer Active test& Antenna pattern(PS 1#):

Antenna		
Channel	TRP (dBm)	TIS
0	6.91	-89.12
39	7.05	-89.65
78	7.38	-89.34



Conclusion:

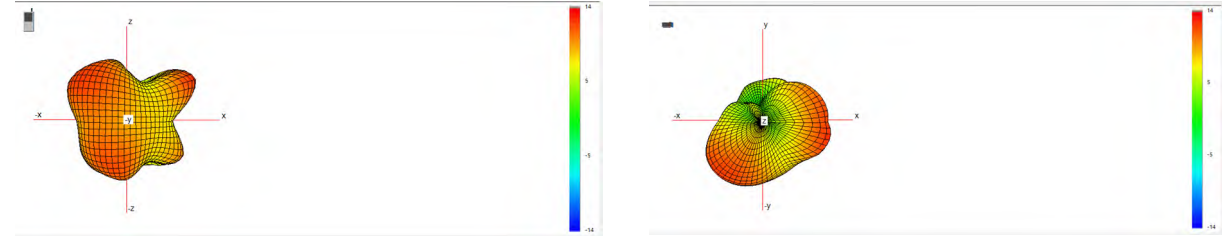
OTA testing of DVT dongle meets the requirements.



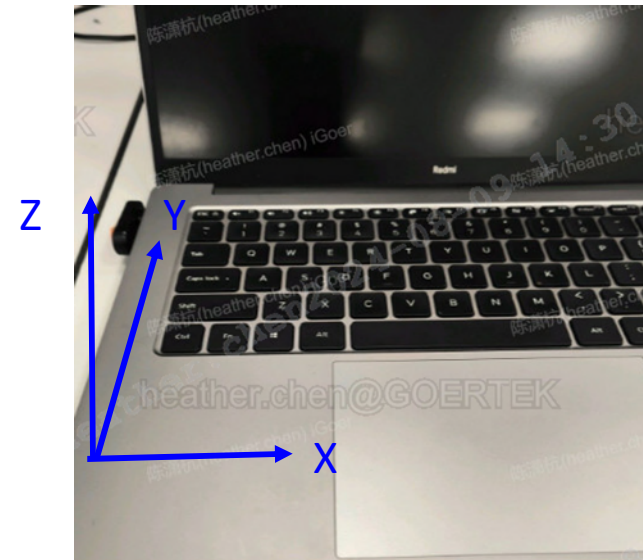
DVT dongle antenna data

- metal computer Active test& Antenna pattern(PS 2#):

Antenna		
Channel	TRP (dBm)	TIS
0	7.09	-89.64
39	7.3	-89.83
78	7.6	-89.85



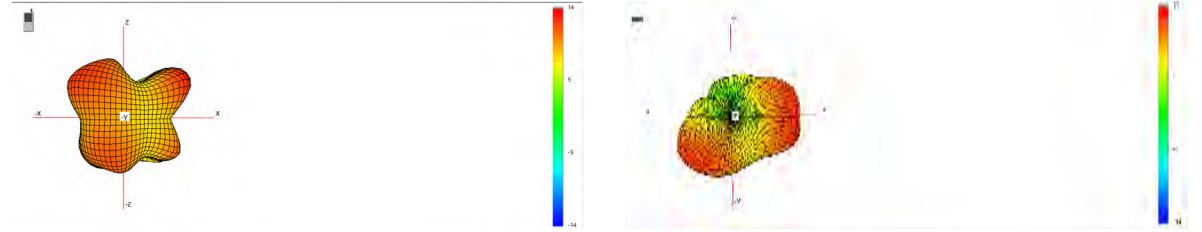
Conclusion:
 OTA testing of DVT dongle meets the requirements.



DVT dongle antenna data

- metal computer Active test& Antenna pattern(XBOX 1#) :

Antenna		
Channel	TRP (dBm)	TIS
0	7.04	-89.32
39	7.68	-89.59
78	7.36	-89.63



Conclusion:
 OTA testing of DVT dongle meets the requirements.



DVT dongle antenna data

- metal computer Active test& Antenna pattern(XBOX 2#) :

Antenna		
Channel	TRP (dBm)	TIS
0	7.24	-89.76
39	7.74	-90.25
78	7.69	-90.03



Conclusion:

OTA testing of DVT dongle meets the requirements.



DVT dongle antenna data

- Dongle plastic computer status test environment :



cable was used to connect the dark room with passive fixtures

DVT dongle antenna data

- plastic computer : Active test & Antenna pattern(PS 1#):

Antenna		
Channel	TRP (dBm)	TIS
0	5.35	-87.65
39	5.92	-88.32
78	6.03	-88.66



Front view



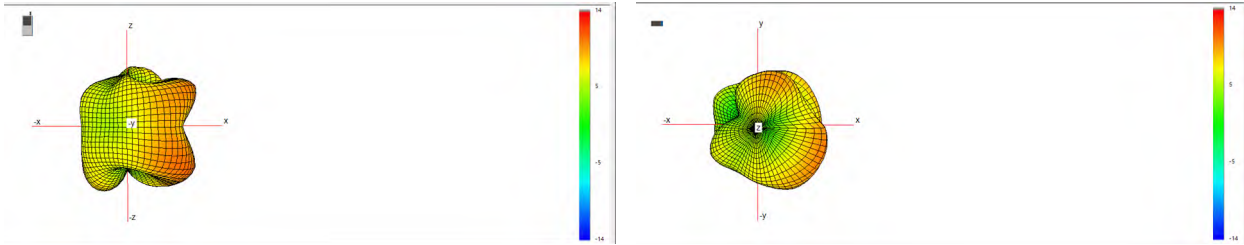
Top view



DVT dongle antenna data

■ plastic computer : Active test & Antenna pattern(PS 2#):

Antenna		
Channel	TRP (dBm)	TIS
0	5.79	-87.78
39	6.01	-88.49
78	5.67	-87.92



Front view

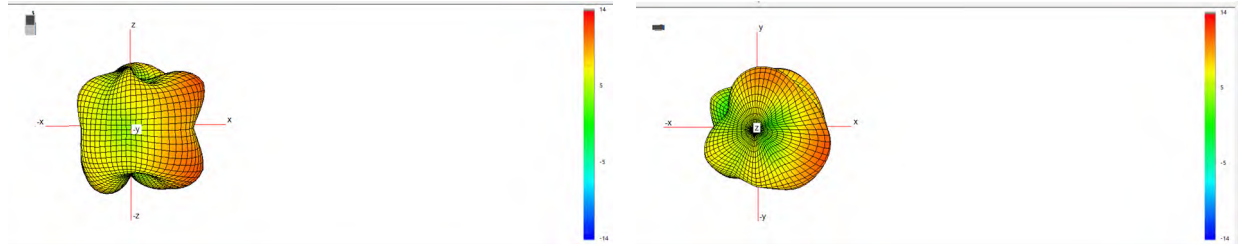
Top view



DVT dongle antenna data

■ plastic computer : Active test & Antenna pattern(XBOX 1#) :

Antenna		
Channel	TRP (dBm)	TIS
0	6.06	-88.57
39	6.2	-88.62
78	5.9	-87.95



Front view

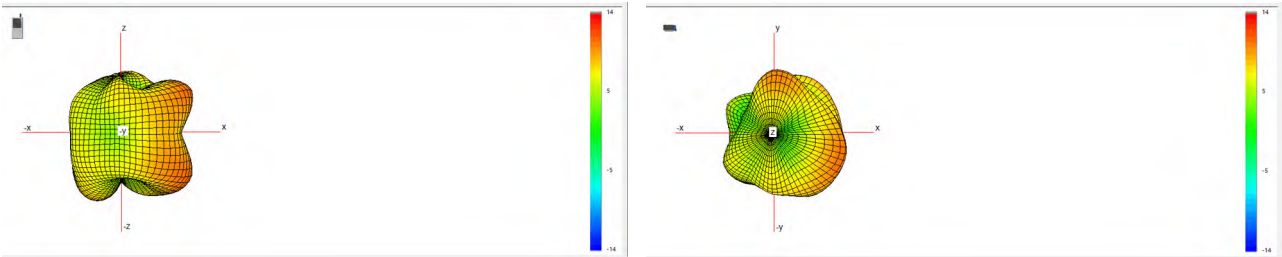
Top view



DVT dongle antenna data

■ plastic computer : Active test & Antenna pattern(XBOX 2#) :

Antenna		
Channel	TRP (dBm)	TIS
0	5.66	-87.46
39	6.07	-88.31
78	5.87	-87.35



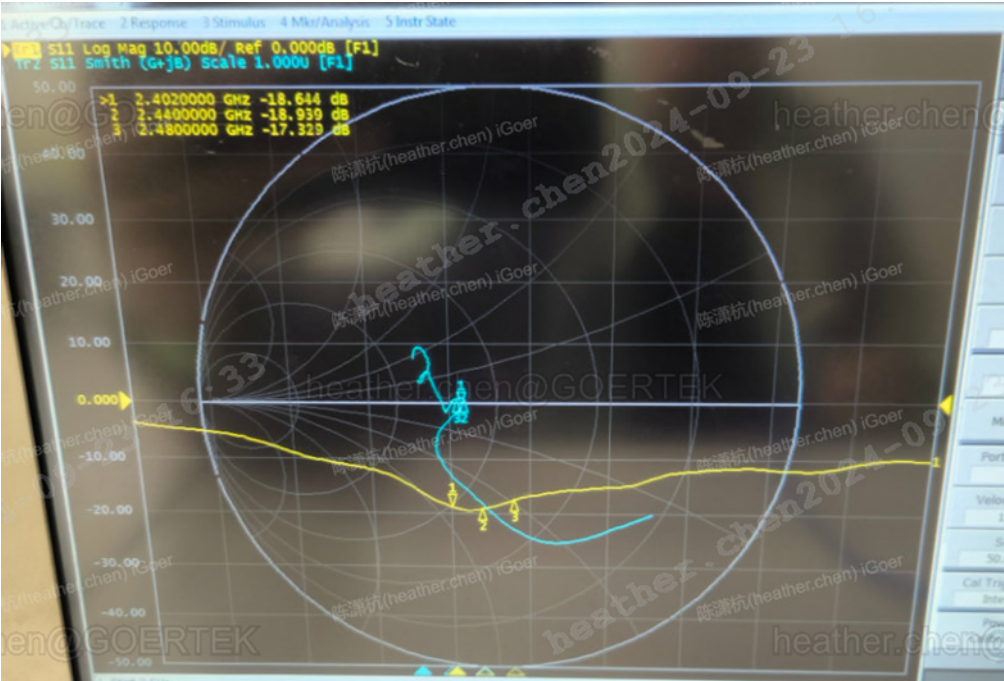
Front view

Top view



DVT dongle antenna data

■ Extension cable S11 &Active test (PS 1#):

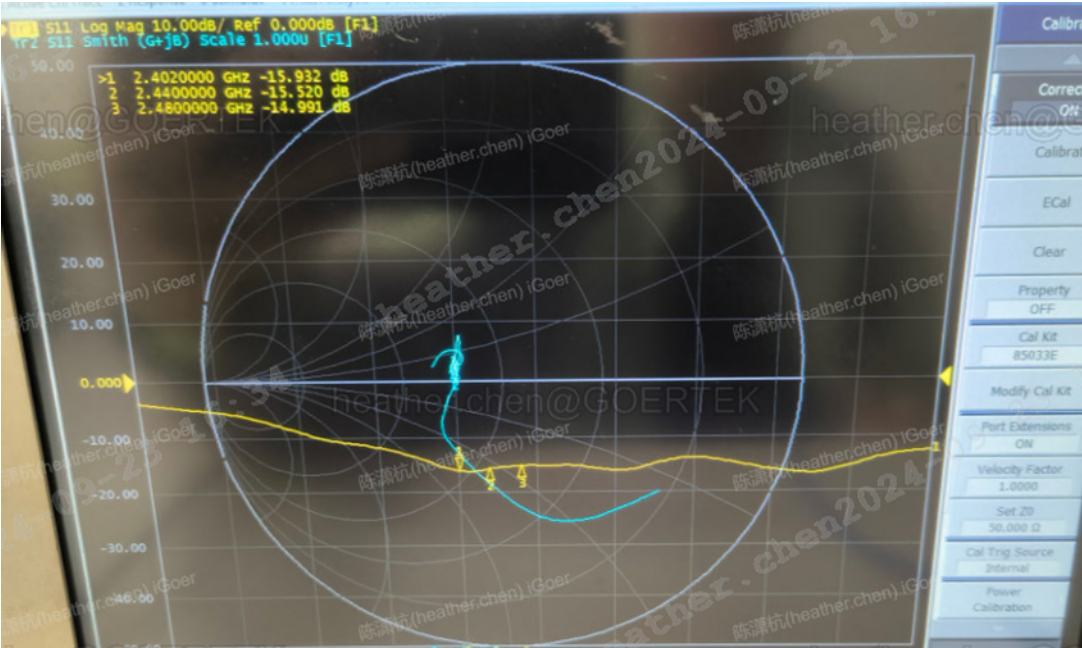


dongle Antenna		
Channel	TRP (dBm)	TIS
0	7.04	-88.56
39	6.81	-88.31
78	6.13	-88.02

Antenna	Frequency	S11(dB)	Limit(dB)	Pass or Fail
dongle	2.402GHz~2.48GHz	<-10	<-10	pass

DVT dongle antenna data

■ Extension cable S11 &Active test(PS 2#) :

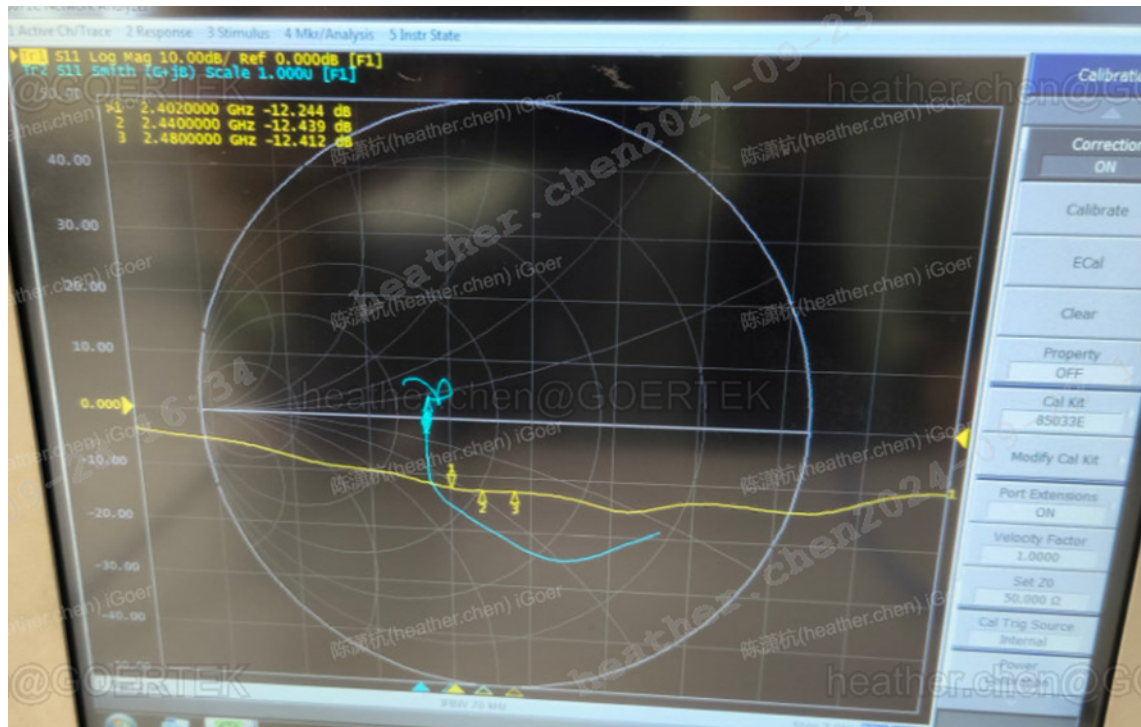


dongle Antenna		
Channel	TRP (dBm)	TIS
0	6.65	-88.42
39	6.71	-88.79
78	6.3	-88.17

Antenna	Frequency	S11(dB)	Limit(dB)	Pass or Fail
dongle	2.402GHz~2.48GHz	<-10	<-10	pass

DVT dongle antenna data

■ Extension cable S11 & Active test (XBOX 1#) :

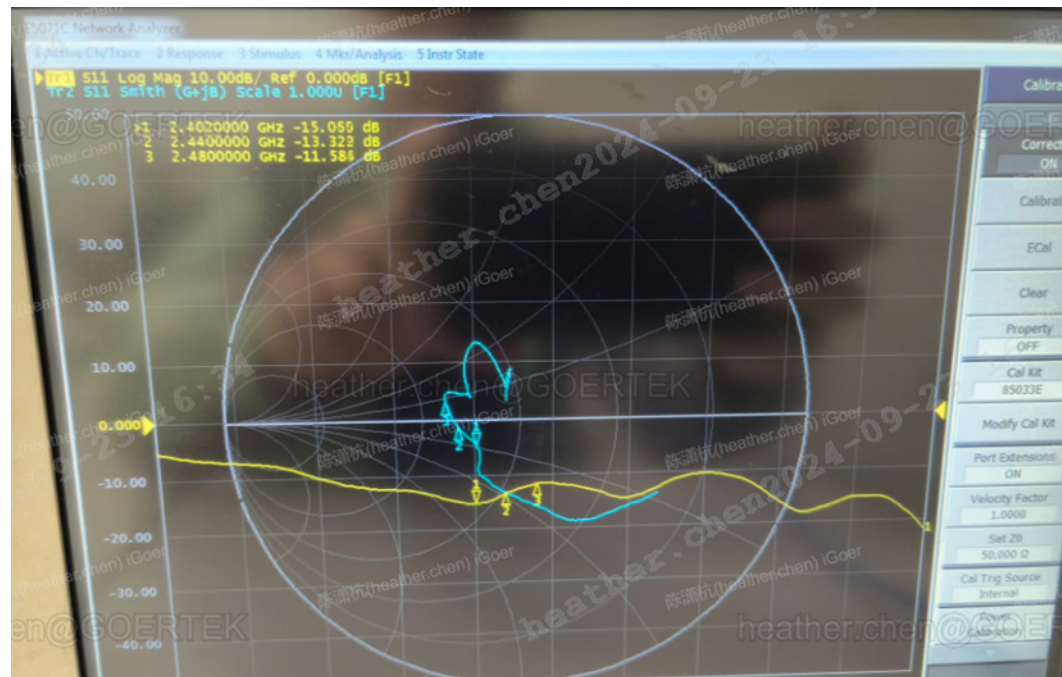


dongle Antenna		
Channel	TRP (dBm)	TIS
0	6.8	-88.32
39	6.59	-88.15
78	5.93	-87.97

Antenna	Frequency	S11(dB)	Limit(dB)	Pass or Fail
dongle	2.402GHz~2.48GHz	<-10	<-10	pass

DVT dongle antenna data

■ Extension cable S11 &Active test (XBOX 2#) :

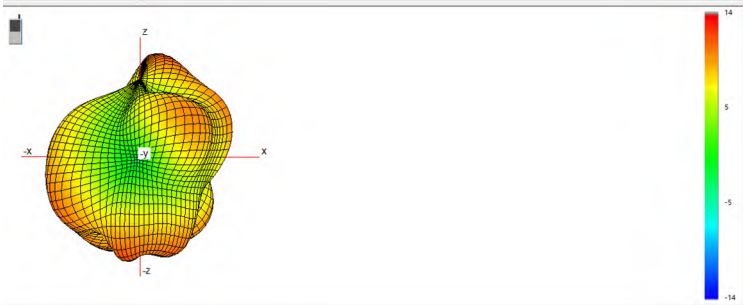


dongle Antenna		
Channel	TRP (dBm)	TIS
0	6.69	-88.45
39	6.43	-88.27
78	5.78	-87.76

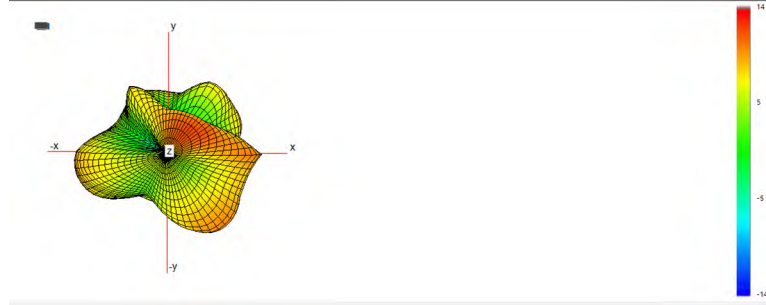
Antenna	Frequency	S11(dB)	Limit(dB)	Pass or Fail
dongle	2.402GHz~2.48GHz	<-10	<-10	pass

DVT dongle antenna data

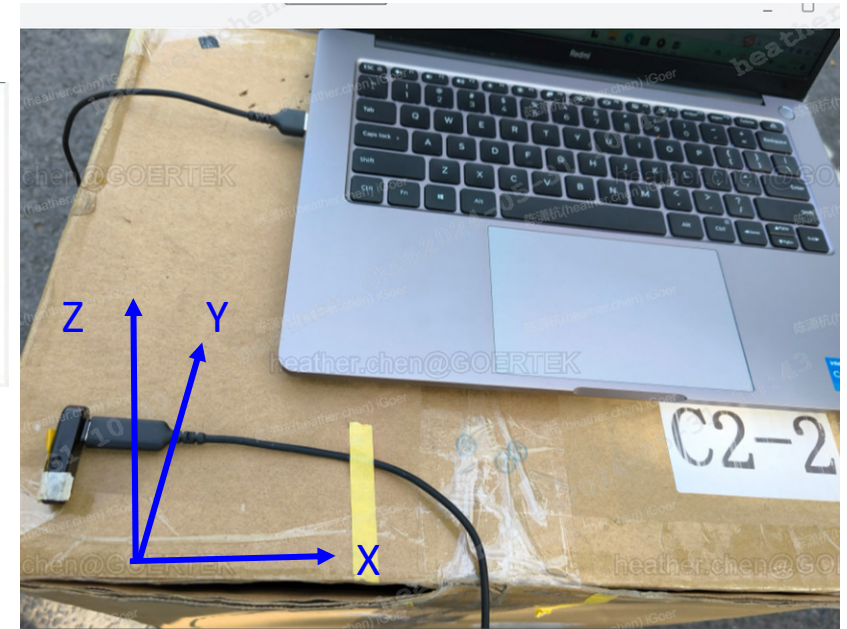
- Extension cable (-Y) Antenna pattern(PS 1#):



Front view

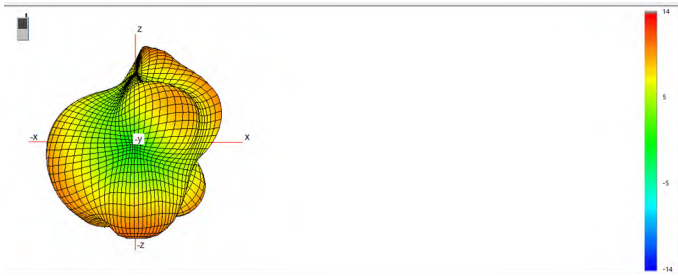


Top view



DVT dongle antenna data

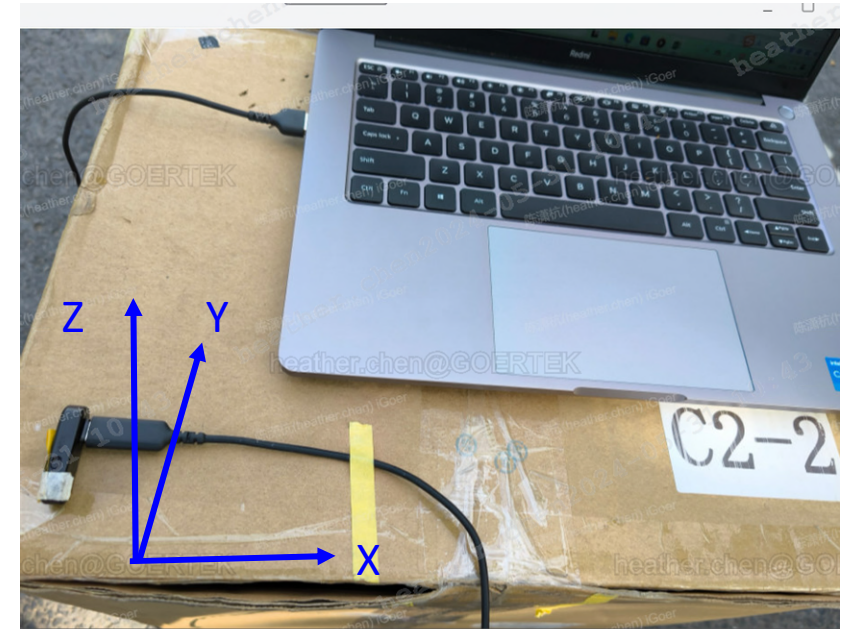
- Extension cable (-Y) Antenna pattern(PS 2#):



Front view

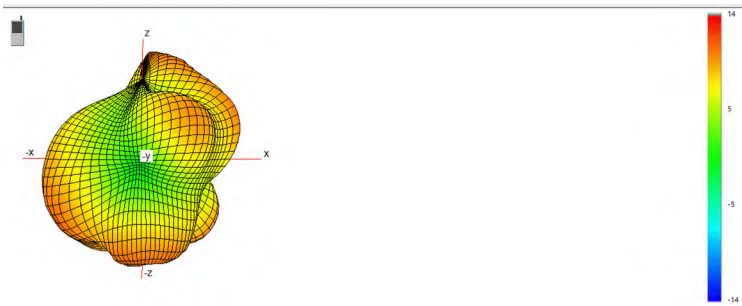


Top view

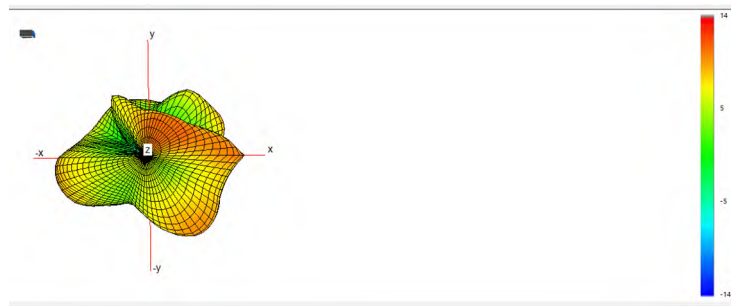


DVT dongle antenna data

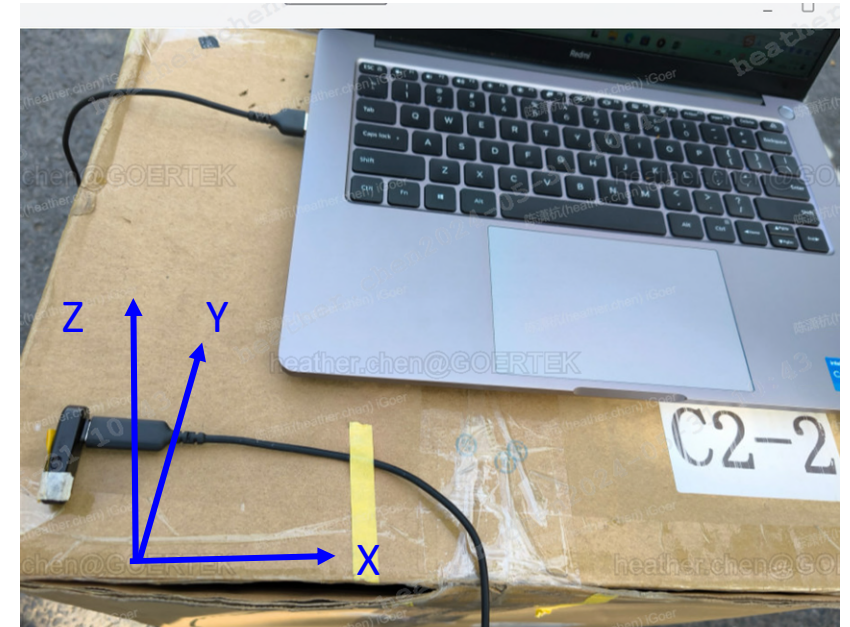
- Extension cable (-Y) Antenna pattern(XBOX 1#):



Front view



Top view

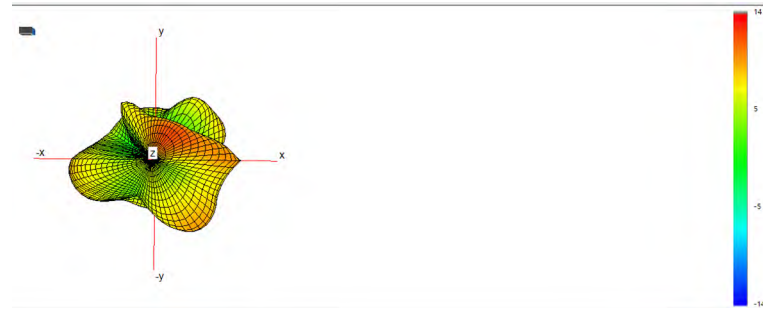


DVT dongle antenna data

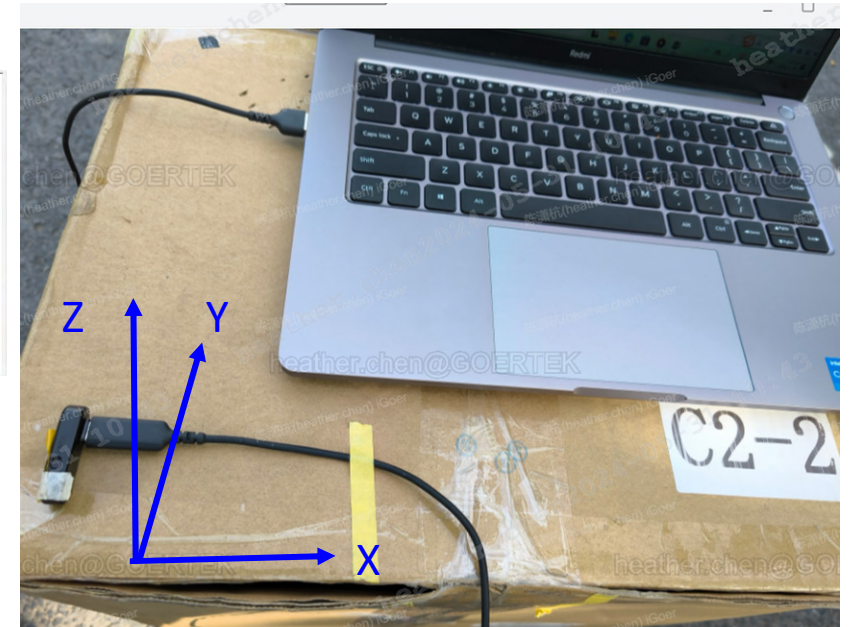
- Extension cable (-Y) Antenna pattern(XBOX 2#):



Front view

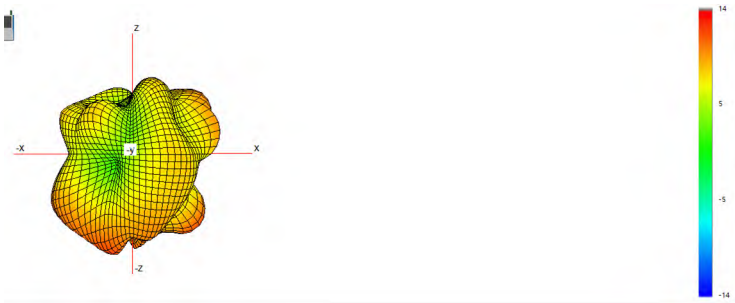


Top view

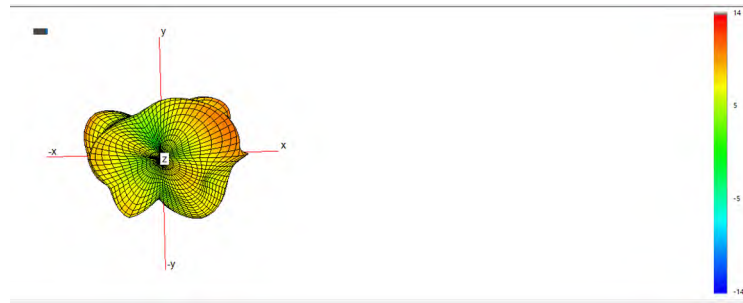


DVT dongle antenna data

- Extension cable (+Y) Antenna pattern(PS 1#):



Front view

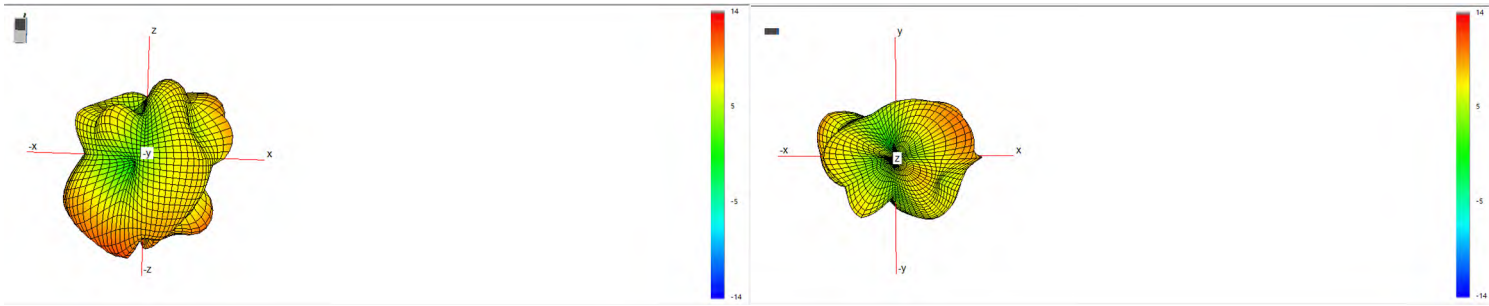


Top view



DVT dongle antenna data

- Extension cable (+Y) Antenna pattern(PS 2#):



Front view

Top view



DVT dongle antenna data

- Extension cable (+Y) Antenna pattern(XBOX 1#):



Front view

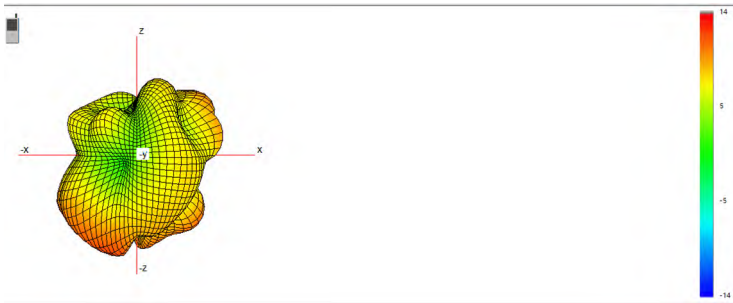


Top view

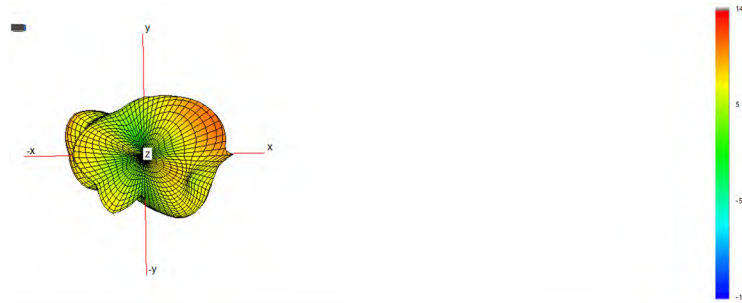


DVT dongle antenna data

- Extension cable (+Y) Antenna pattern(XBOX 2#):



Front view

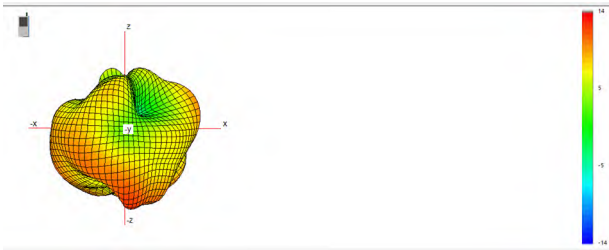


Top view

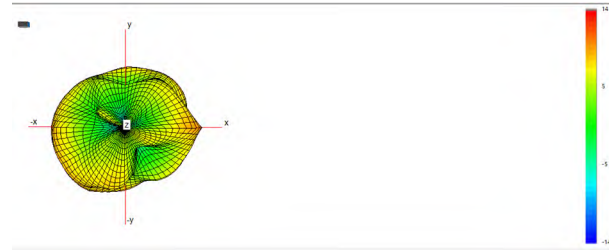


DVT dongle antenna data

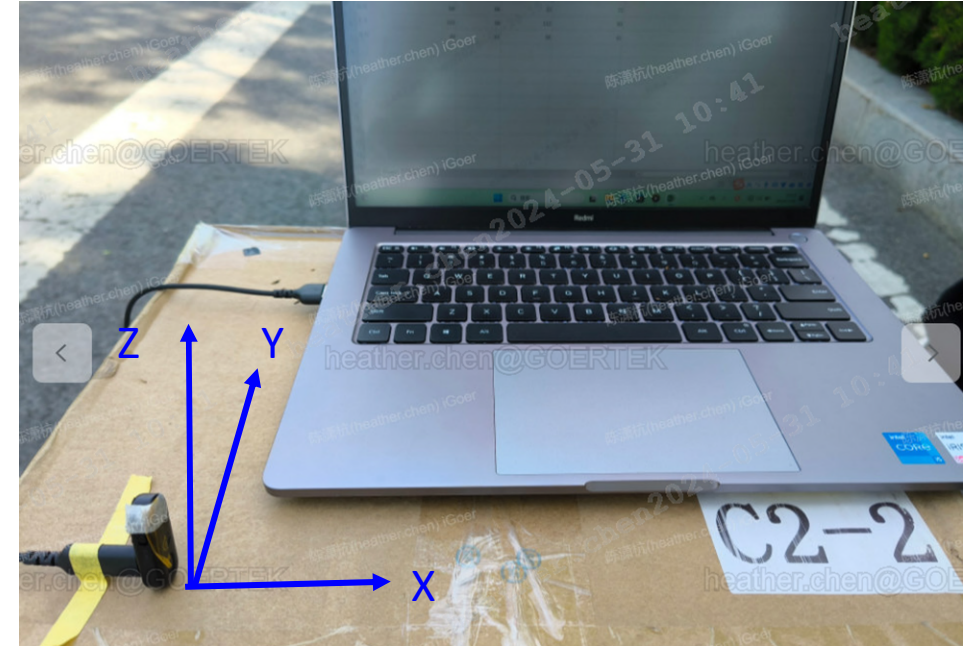
■ Extension cable (+Z) Antenna pattern(PS 1#):



Front view

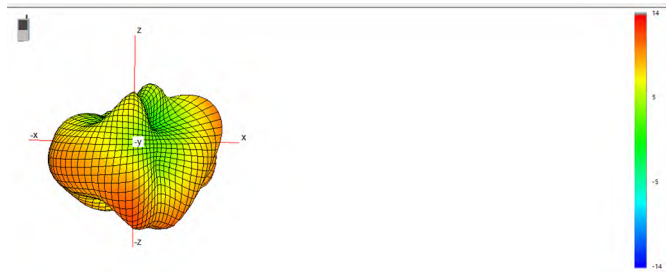


Top view

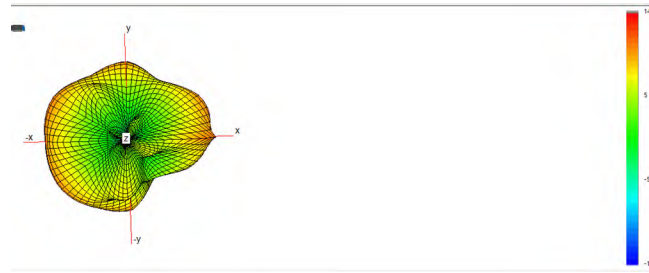


DVT dongle antenna data

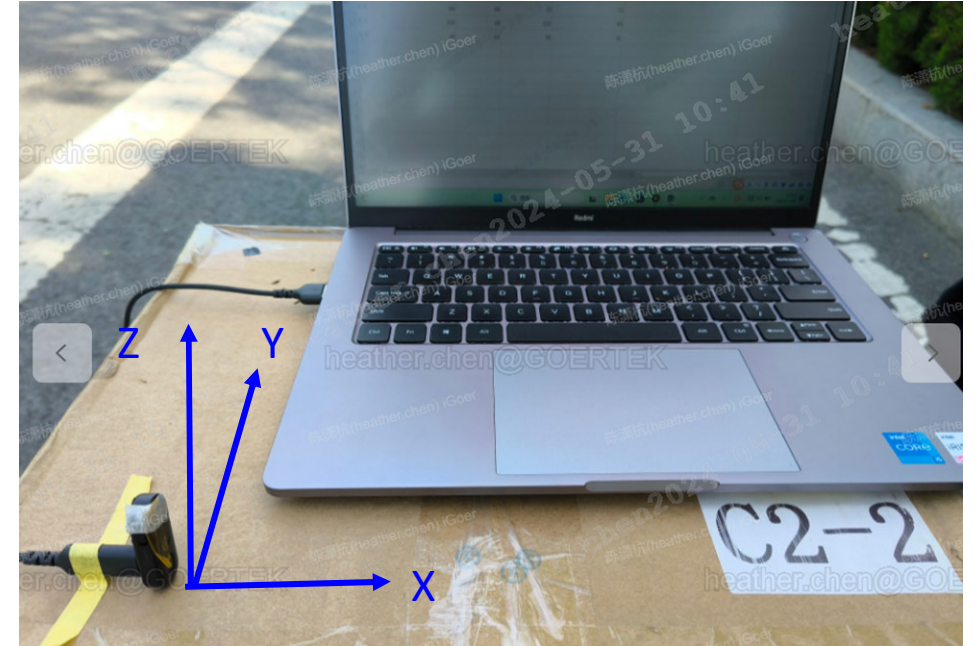
- Extension cable (+Z) Antenna pattern(PS 2#):



Front view

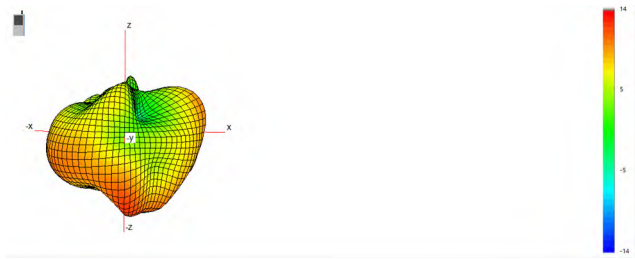


Top view

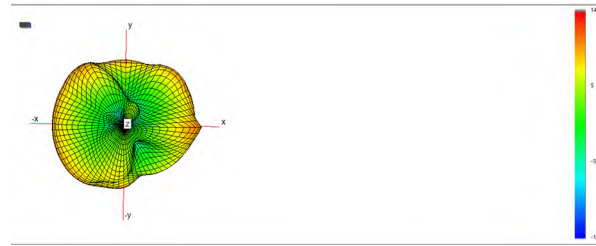


DVT dongle antenna data

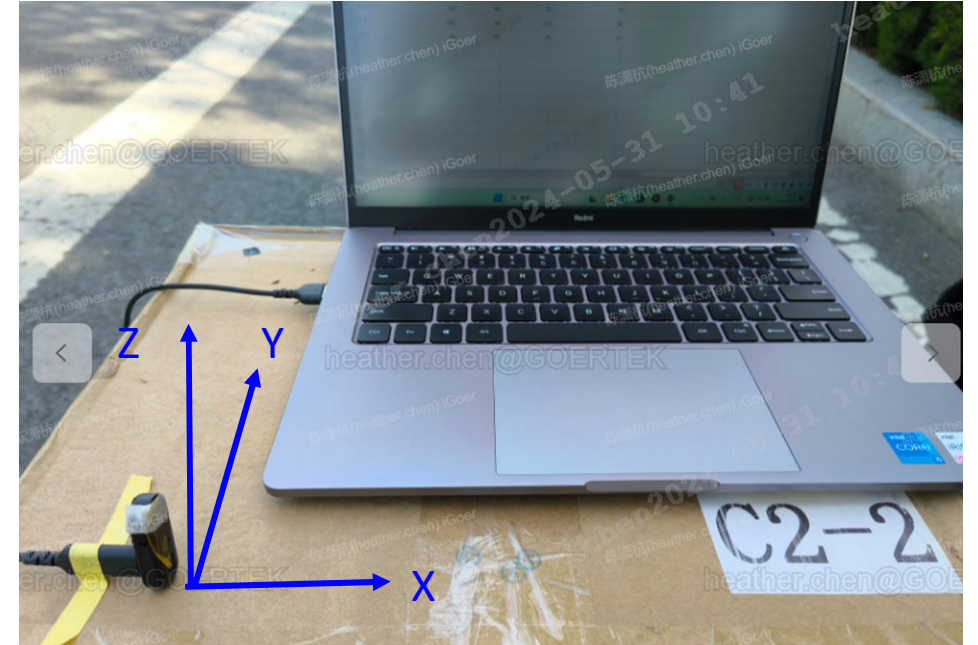
■ Extension cable (+Z) Antenna pattern(XBOX 1#):



Front view



Top view

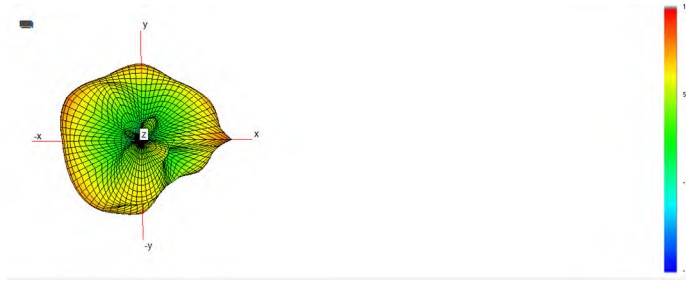


DVT dongle antenna data

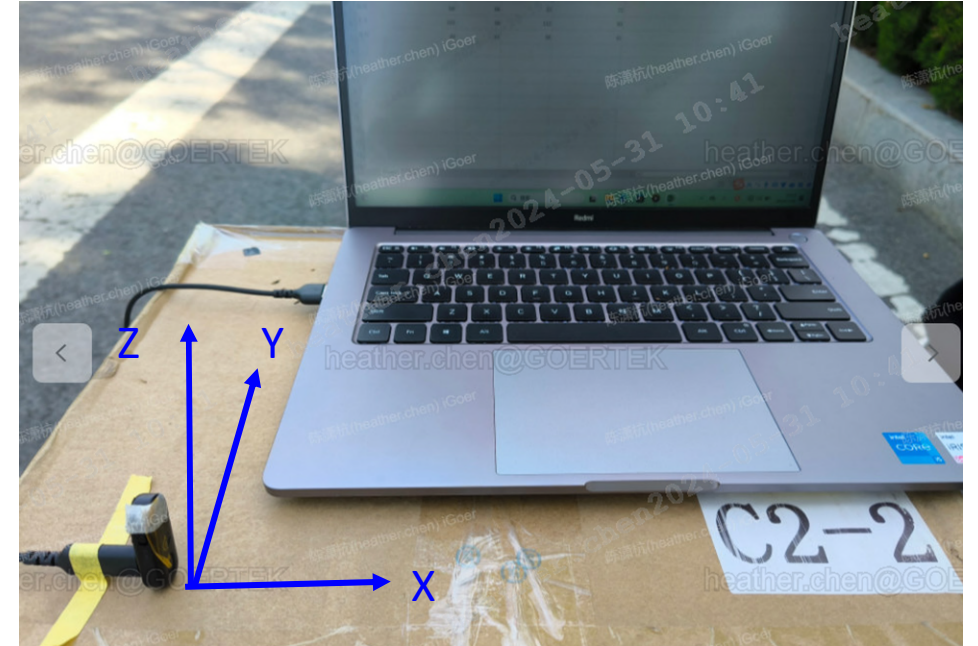
- Extension cable (-Y) Antenna pattern(XBOX 2#):



Front view

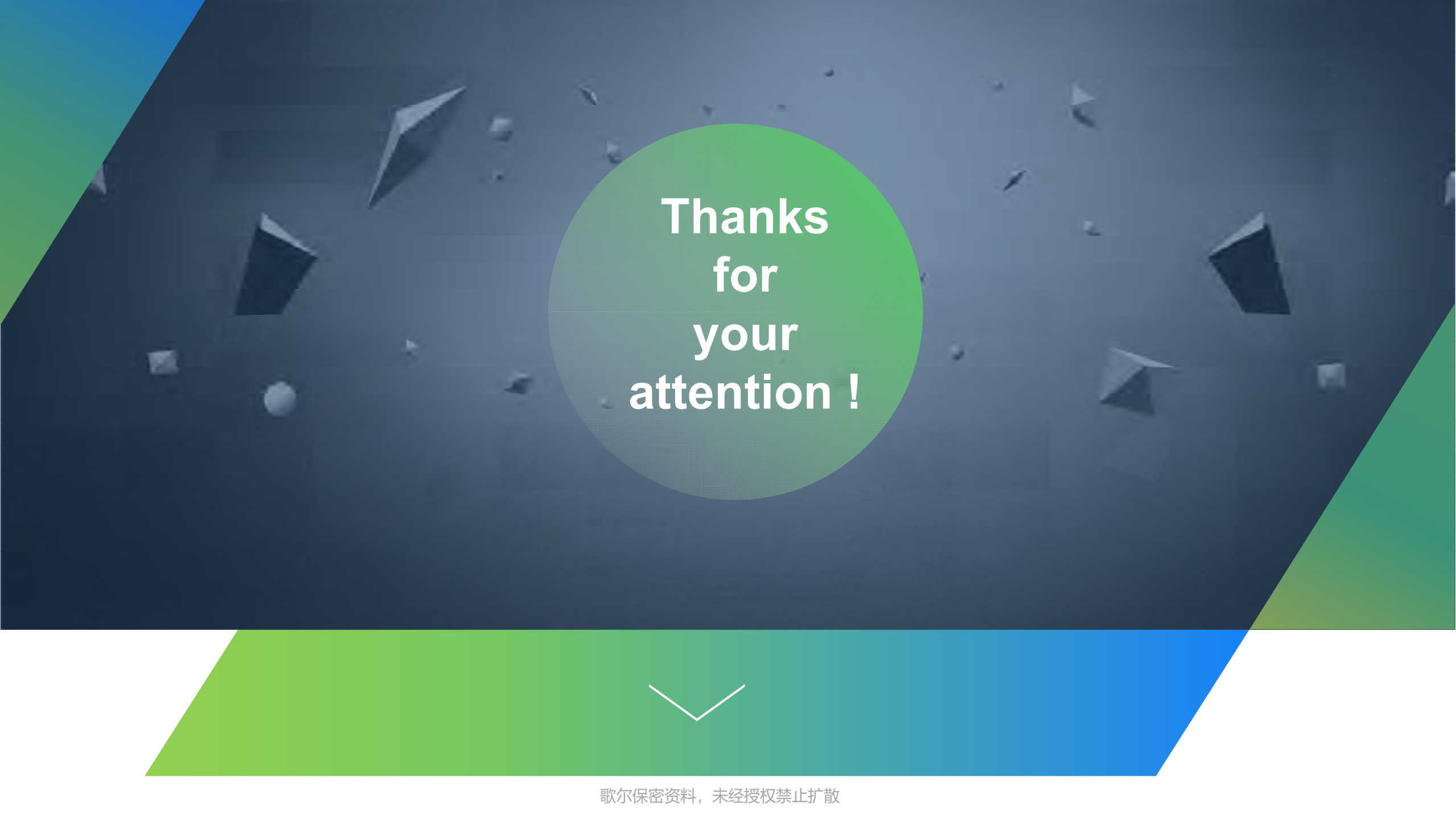


Top view



Conclusion

- DVT headphones and dongle meet both active and passive performance requirements, and are basically the same as competing products.
- There is no significant difference in antenna performance between PS version and XBOX version.

The background is a dark blue gradient with various geometric shapes like triangles and squares scattered across it. A large green circle is centered in the upper half, containing the text 'Thanks for your attention !'. The bottom of the image features a horizontal bar with a green-to-blue gradient, containing a white downward-pointing chevron.

**Thanks
for
your
attention !**

