

# **RF EXPOSURE EVALUATION**

### 1. PRODUCT INFORMATION

Product Description	VR All-in-One HMD
Model Name	UX598C, CVR-255, UX598
FCC ID	TZIUX598

#### 2. EVALUATION METHOD

According to KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR t est exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distanc e, mm)] • [ $\sqrt{f(GHz)}$ ] ≤ 3.0

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR t est exclusion thresholds are determined by the following:

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance  $-50 \text{ mm})\cdot10$ ]} mW, for > 1500 MHz and  $\le 6 \text{ GHz}$ 

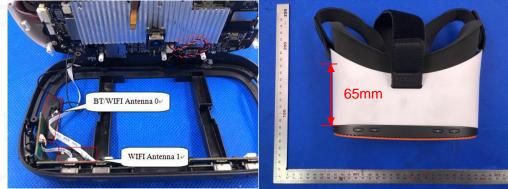
#### 3. CALCULATION

Take 2.4G WIFI as an example

P<sub>t</sub>=14.14dBm=25.94mW

The value of the Maximum output power  $P_t$  is referred to the test report of the AGC03195200602FE05.

The test separation distance of UX598C& CVR-255 is 65mm.



The test separation distance of antenna0 is 30mm and antenna1 is 37mm for UX598. As long as antenna 0 can be exempted, antenna 1 can also be exempted.



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Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

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o/Inspection The test results of the test report.



For UX598C and CVR-255, 2.4GHz WLAN SAR test exclusion threshold = $(3.0*50\text{mm})/[\sqrt{2.412(\text{GHz})}]+[(65\text{mm}-50\text{mm}).10]=246.58\text{mW}>25.94\text{mW}$ , SAR evaluation for 2.4G WIFI are not required.

For UX598C and CVR-255, 2.4GHz WLAN-MIMO SAR test exclusion threshold = $(3.0*50\text{mm})/[\sqrt{2.412(\text{GHz})}]+[(65\text{mm}-50\text{mm}).10]=246.58\text{mW}>28.71\text{mW}.$ SAR evaluation for 2.4G WIFI-MIMO are not required.

Similarly, the SAR exemption thresholds for the following frequency bands can be obtained.

SAR test exclusion thresholds for UX598C and CVR-255						
Mode	Frequency(GHz)	Maximum source-based time averaged conducted output power including tune-up tolerance (mW)	SAR test exclusion thresholds (mW) for 1-g SAR	Minimum separation distance (mm)	Verdict	
BT	2.402-2.480	5.46	246.01	65	Exempt from SAR	
WLAN	2.412-2.462	25.94	246.58	65	Exempt from SAR	
U-NII-1	5.15-5.25	19.19	215.91	65	Exempt from SAR	
U-NII-2A	5.25-5.35	14.09	215.40	65	Exempt from SAR	
U-NII-2C	5.47-5.725	12.97	212.83	65	Exempt from SAR	
U-NII-3	5.725-5850	14.22	212.15	65	Exempt from SAR	

SAR test exclusion thresholds for UX598C and CVR-255						
Mode	Frequency(GHz)	Maximum source-based time averaged conducted output power including tune-up tolerance (mW)	SAR test exclusion thresholds (mW) for 1-g SAR	Minimum separation distance (mm)	Verdict	
WLAN-MIMO	2.412-2.462	28.71	246.58	65	Exempt from SAR	
U-NII-1-MIMO	5.15-5.25	20.00	215.91	65	Exempt from SAR	
U-NII-2A-MIMO	5.25-5.35	13.74	215.40	65	Exempt from SAR	
U-NII-2C-MIMO	5.47-5.725	12.30	212.83	65	Exempt from SAR	
U-NII-3-MIMO	5.725-5850	13.52	212.15	65	Exempt from SAR	

For UX598, 2.4GHz WLAN SAR test exclusion threshold

=(3.0\*30mm)/[√2.412(GHz)] =57.95mW>25.94mW,

SAR evaluation for 2.4G WIFI are not required.

For UX598, 2.4GHz WLAN-MIMO SAR test exclusion threshold = $(3.0*30\text{mm})/[\sqrt{2.412(\text{GHz})}]$  =57.95mW>28.71mW, SAR evaluation for 2.4G WIFI-MIMO are not required.

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Similarly, the SAR exemption thresholds for the following frequency bands can be obtained.

SAR test exclusion thresholds for UX598						
Mode	Frequency(GHz)	Maximum source-based time averaged conducted output power including tune-up tolerance(mW)	SAR test exclusion thresholds(mW) for 1-g SAR	Minimum separation distance (mm)	Verdict	
BT	2.402-2.480	5.46	57.60	30	Exempt from SAR	
WLAN	2.412-2.462	25.94	57.95	30	Exempt from SAR	
U-NII-1	5.15-5.25	19.19	39.54	30	Exempt from SAR	
U-NII-2A	5.25-5.35	14.09	39.24	30	Exempt from SAR	
U-NII-2C	5.47-5.725	12.97	37.70	30	Exempt from SAR	
U-NII-3	5.725-5850	14.22	37.29	30	Exempt from SAR	

SAR test exclusion thresholds for UX598					
Mode	Frequency(GHz)	Maximum source-based time averaged conducted output power including tune-up tolerance(mW)	SAR test exclusion thresholds(mW) for 1-g SAR	Minimum separation distance (mm)	Verdict
WLAN-MIMO	2.412-2.462	28.71	57.95	30	Exempt from SAR
U-NII-1-MIMO	5.15-5.25	20.00	39.54	30	Exempt from SAR
U-NII-2A-MIMO	5.25-5.35	13.74	39.24	30	Exempt from SAR
U-NII-2C-MIMO	5.47-5.725	12.30	37.70	30	Exempt from SAR
U-NII-3-MIMO	5.725-5850	13.52	37.29	30 (	Exempt from SAR

## 4. CONCLUSION

The SAR evaluation is not required.

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