

# **FCC RF Exposure Report**

FCC ID : ACQ-STREAMTV

Equipment : Stream TV Model No. : Stream TV

Brand Name : Verizon
Applicant : ARRIS

Address : 101 Tournament Drive, Horsham

Pennsylvania, United States, 19044

Standard : 47 CFR FCC Part 2.1091

Received Date : Mar. 11, 2021

Tested Date : Mar. 16 ~ Apr. 30, 2021

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Cheid/ Assistant Manager Gary Chang / Manager

Testin

Testing Laboratory 2732

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# **Release Record**

Report No.	Version	Description	Issued Date
FA131101	Rev. 01	Initial issue	May 13, 2021

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#### 1 MPE EVALUATION OF MOBILE DEVICES

#### 1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

#### 1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4*Pi*R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

#### 1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

#### 1.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty
Conducted power	±0.808 dB

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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#### 1.5 MPE EVALUATION RESULTS

Non-beamforming

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)	*Ratio	Pass / Fail
2412~2462 (Wi-Fi)	23.52	24.0	3.02	20	0.100	1	0.100	Pass
5150~5250 (Wi-Fi)	23.09	23.5	3.84	20	0.108	1	0.108	Pass
5250~5350 (Wi-Fi)	22.92	23.0	3.84	20	0.096	1	0.096	Pass
5470~5725 (Wi-Fi)	23.51	24.0	3.84	20	0.121	1	0.121	Pass
5725~5850 (Wi-Fi)	25.77	26.0	3.84	20	0.192	1	0.192	Pass
2402-2480 (BT EDR)	2.26	2.5	2.7	20	0.001	1	0.001	Pass
2402-2480 (BT LE)	1.85	2	2.7	20	0.001	1	0.001	Pass

<sup>\*</sup>Ratio = Power density / Limit.

Beamforming

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)	*Ratio	Pass / Fail
5150~5250 (Wi-Fi)	20.08	20.5	6.84	20	0.108	1	0.108	Pass
5250~5350 (Wi-Fi)	19.91	20	6.84	20	0.096	1	0.096	Pass
5470~5725 (Wi-Fi)	20.50	21	6.84	20	0.121	1	0.121	Pass
5725~5850 (Wi-Fi)	22.76	23	6.84	20	0.192	1	0.192	Pass

**DG** = Directional Gain=10 \*  $log((10^{3.84/20}+10^{3.82/20})^2/2=6.84 dBi$ 

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### 1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Non-beamforming

Non-beamforming					
Mode	Max Ratio of Each Mode				
Wi-Fi 2.4 GHz	0.100				
Wi-Fi 5 GHz	0.192				
ВТ	0.001				
Sum (Wi-Fi 2.4 GHz+ BT)	0.101				
Sum (Wi-Fi 5 GHz+ BT )	0.193				
Limit	1				
Pass / Fail	Pass				

Beamforming

20um orumig					
Mode	Max Ratio of Each Mode				
Wi-Fi 2.4 GHz	0.100				
Wi-Fi 5 GHz	0.192				
ВТ	0.001				
Sum (Wi-Fi 2.4 GHz+ BT)	0.101				
Sum (Wi-Fi 5 GHz+ BT )	0.192				
Limit	1				
Pass / Fail	Pass				

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### 2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <a href="http://www.icertifi.com.tw">http://www.icertifi.com.tw</a>.

#### Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

#### Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

#### Kwei Shan Site II Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

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