

RF EXPOSURE REPORT



Applicant: Iridium Satellite LLC
1750 Tysons Blvd #1400, McLean, VA 22102, USA
Manufacturer: Iridium Satellite LLC
1750 Tysons Blvd #1400, McLean, VA 22102, USA
Product Name: 9604
Brand Name: Iridium
Model No.: 9604
FCC ID Q639604
Date of EUT Received: Oct. 03, 2025
Issue Date: Mar. 18, 2026

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

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f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2510000741ES	00	Original	Feb. 02, 2026	Cindy Chou	
TESA2510000741ES	01	Modify comment	Mar. 18, 2026	Cindy Chou	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	9604
Brand Name:	Iridium
Model No.:	9604

1.2 Evaluation site

Laboratory		Site Address	FCC Designation number/ Registration Number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☒	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027/ 891563	4620A	TW3702
	☐	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028/ 200037	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.	TW0029/ 150169	23862	

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Max. Output Power Include Tolerance with duty cycle (dBm)	Duty cycle(%)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
Cat M.1-Band 2	1910.00	20	25	25	100.0%	2.90	616.60	0.1227	1.000	Pass	0.123
Cat M.1-Band 4	1755.00	20	25	25	100.0%	2.90	616.60	0.123	1.000	Pass	0.123
Cat M.1-Band 5	849.00	20	25	25	100.0%	1.20	416.87	0.083	0.566	Pass	0.147
Cat M.1-Band 8	900.50	20	25	25	100.0%	1.20	416.87	0.083	0.600	Pass	0.138
Cat M.1-Band 12	716.00	20	25	25	100.0%	1.70	467.74	0.093	0.477	Pass	0.195
Cat M.1-Band 13	787.00	20	25	25	100.0%	1.70	467.74	0.093	0.525	Pass	0.177
Cat M.1-Band 25	1915.00	20	25	25	100.0%	2.90	616.60	0.123	1.000	Pass	0.123
Cat M.1-Band 26 Part 90	824.00	20	25	25	100.0%	1.20	416.87	0.083	0.549	Pass	0.151
Cat M.1-Band 26	849.00	20	25	25	100.0%	1.20	416.87	0.083	0.566	Pass	0.147
Cat M.1-Band 66	1780.00	20	25	25	100.0%	2.90	616.60	0.123	1.000	Pass	0.123
Cat M.1-Band 71	698.00	20	25	25	100.0%	1.10	407.38	0.081	0.465	Pass	0.174
Cat M.1-Band 85	698.00	20	25	25	100.0%	1.70	467.74	0.093	0.465	Pass	0.200
L band	1626.00	20	33.2	22.84	9.2%	-0.20	183.56	0.037	1.000	Pass	0.037

Conclusion: Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

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2.3 Maximum Allowable Antenna Gain

Operation Mode	Freq. (MHz)	Operation Distance (cm)	Max. output Power include tolerance (dBm)	Max. output Power include tolerance with duty cycle (dBm)	Max. Allowable Antenna Gain (dBi)	EIRP (ERP) Limit (dBm)	Duty cycle(%)	Max. output Power (mW)	Power Density (PD) (mW/cm ²)	PD Limit (mW/cm ²)	Allowable Gain according to EIRP (dBi)	Allowable Gain according to PD (dBi)	Power Density / Limit
Cat M.1-Band 2	1850.7	20	25.00	25.00	8.00	33.00	100.0%	1995.26	0.397	1.000	8.00	12.01	0.397
Cat M.1-Band 4	1710.7	20	25.00	25.00	5.00	30.00	100.0%	1000.00	0.199	1.000	5.00	12.01	0.199
Cat M.1-Band 5	824.7	20	25.00	25.00	9.41	38.45	100.0%	2762.20	0.550	0.550	13.45	9.41	1.000
Cat M.1-Band 8	900.5	20	25.00	25.00	9.79	38.45	100.0%	3016.07	0.600	0.600	13.45	9.79	1.000
Cat M.1-Band 12	699.7	20	25.00	25.00	8.70	34.77	100.0%	2343.53	0.466	0.466	9.77	8.70	1.000
Cat M.1-Band 13	779.5	20	25.00	25.00	9.17	34.77	100.0%	2610.81	0.520	0.520	9.77	9.17	1.000
Cat M.1-Band 25	1850.7	20	25.00	25.00	8.00	33.00	100.0%	1995.26	0.397	1.000	8.00	12.01	0.397
Cat M.1-Band 26 Part 90	814.7	20	25.00	25.00	9.36	50.00	100.0%	2728.70	0.543	0.543	25.00	9.36	1.000
Cat M.1-Band 26	824.7	20	25.00	25.00	9.41	38.45	100.0%	2762.20	0.550	0.550	13.45	9.41	1.000
Cat M.1-Band 66	1710.70	20	25.00	25.00	5.00	30.00	100.0%	1000.00	0.199	1.000	5.00	12.01	0.199
Cat M.1-Band 71	665.50	20	25.00	25.00	8.48	34.77	100.0%	2228.98	0.444	0.444	9.77	8.48	1.000
Cat M.1-Band 85	698.0	20	25.00	25.00	8.69	34.77	100.0%	2337.83	0.465	0.465	9.77	8.69	1.000
L band	1626.0	20	33.20	22.84	14.17	70.00	9.2%	5024.00	1.000	1.000	47.16	14.17	1.000

~ End of Report ~

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