

FCC RF EXPOSURE REPORT

FCC ID: QIS-IPP8950

Project No. : 1406C208
Equipment : IP Phone
Model : eSpace 8950
Applicant : Huawei Technologies Co.,Ltd.
**Address : Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District Shenzhen China**

**According: : FCC Guidelines for Human Exposure IEEE
C95.1**

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the 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

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	Shenzhen Sunway Communication Co.,Ltd	111003WS322 A	Integral	N/A	3.8	2.4G
1	Shenzhen Sunway Communication Co.,Ltd	111003WS322 A	Integral	N/A	4.6	5G

TEST RESULTS

2.4G

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.8	2.3988	17.42	55.2077	0.02636030	1	Complies
3.8	2.3988	17.28	53.4564	0.02552410	1	Complies
3.8	2.3988	17.18	52.2396	0.02494310	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.8	2.3988	17.67	58.4790	0.02792225	1	Complies
3.8	2.3988	20.25	105.9254	0.05057669	1	Complies
3.8	2.3988	17.82	60.5341	0.02890350	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE/CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.8	2.3988	16.92	49.2040	0.02349364	1	Complies
3.8	2.3988	20.35	108.3927	0.05175477	1	Complies
3.8	2.3988	16.94	49.4311	0.02360208	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE/CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.8	2.3988	14.73	29.7167	0.01418895	1	Complies
3.8	2.3988	14.31	26.9774	0.01288102	1	Complies
3.8	2.3988	14.12	25.8226	0.01232964	1	Complies

5G Band 1

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE/CH36, CH40, CH48		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	10.86	12.1899	0.00699762	1	Complies
4.6	2.8840	12.35	17.1791	0.00986167	1	Complies
4.6	2.8840	10.95	12.4451	0.00714415	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE/CH36, CH40, CH48		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	10.40	10.9648	0.00629434	1	Complies
4.6	2.8840	12.84	19.2309	0.01103952	1	Complies
4.6	2.8840	11.42	13.8676	0.00796068	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE/CH38, CH46		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	5.23	3.3343	0.00191404	1	Complies
4.6	2.8840	8.92	7.7983	0.00447662	1	Complies

5G Band 2

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE/CH52, CH60, CH64		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	10.61	11.5080	0.00660618	1	Complies
4.6	2.8840	10.73	11.8304	0.00679126	1	Complies
4.6	2.8840	8.64	7.3114	0.00419711	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE/ CH52, CH60, CH64		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	11.03	12.6765	0.00727697	1	Complies
4.6	2.8840	10.04	10.0925	0.00579362	1	Complies
4.6	2.8840	7.07	5.0933	0.00292382	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE/CH54, CH62		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	8.30	6.7608	0.00388106	1	Complies
4.6	2.8840	4.08	2.5586	0.00146876	1	Complies

5G Band 3

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE/ CH100, CH116, CH140		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	10.63	11.5611	0.00663667	1	Complies
4.6	2.8840	13.23	21.0378	0.01207676	1	Complies
4.6	2.8840	10.12	10.2802	0.00590134	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE/ CH100, CH116, CH140		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	12.01	15.8855	0.00911907	1	Complies
4.6	2.8840	13.68	23.3346	0.01339524	1	Complies
4.6	2.8840	9.63	9.1833	0.00527170	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE/ CH102, CH110, CH134		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	6.02	3.9994	0.00229589	1	Complies
4.6	2.8840	11.03	12.6765	0.00727697	1	Complies
4.6	2.8840	6.95	4.9545	0.00284414	1	Complies

5G Band 4

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX A MODE/ CH149, CH157, CH165		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	8.87	7.7090	0.00442538	1	Complies
4.6	2.8840	13.93	24.7172	0.01418895	1	Complies
4.6	2.8840	10.04	10.0925	0.00579362	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 MODE/ CH149, CH157, CH165		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	10.11	10.2565	0.00588776	1	Complies
4.6	2.8840	14.43	27.7332	0.01592027	1	Complies
4.6	2.8840	11.63	14.5546	0.00835508	1	Complies

EUT :	IP Phone	Model Name :	eSpace 8950
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 MODE/ CH151, CH159		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.6	2.8840	5.72	3.7325	0.00214265	1	Complies
4.6	2.8840	7.78	5.9979	0.00344311	1	Complies

Note: the calculated distance is 20 cm.