



Test Report

Date : 2018-02-28
No. : HM17120026

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3.1.3 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
Test Date: 2017-12-20 , 2018-02-21

EUT Operation:

This device has been tested the worst status of full load .
The test used phone with follow detail:
Model: SAMSUNG S8+

Limit:

Frequency range (MHz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) 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
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

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Test Result: PASS

Electric Field Emissions
Charging at Battery Capacity = 10 %

Side	Separation Distance(m)	E-field(V/m)	E-field(V/m)Limit	E-field(V/m)Limit 30%
Side 1	0.1	0.043	614	184.2
Side 2	0.1	0.029	614	184.2
Side 3	0.1	0.021	614	184.2
Side 4	0.1	0.033	614	184.2
Side 5	0.1	0.049	614	184.2
Side 6	0.1	0.015	614	184.2

Charging at Battery Capacity = 50 %

Side	Separation Distance(m)	E-field(V/m)	E-field(V/m)Limit	E-field(V/m)Limit 30%
Side 1	0.1	0.045	614	184.2
Side 2	0.1	0.025	614	184.2
Side 3	0.1	0.022	614	184.2
Side 4	0.1	0.037	614	184.2
Side 5	0.1	0.047	614	184.2
Side 6	0.1	0.019	614	184.2

Charging at Battery Capacity = 90 %

Side	Separation Distance(m)	E-field(V/m)	E-field(V/m)Limit	E-field(V/m)Limit 30%
Side 1	0.1	0.041	614	184.2
Side 2	0.1	0.024	614	184.2
Side 3	0.1	0.023	614	184.2
Side 4	0.1	0.032	614	184.2
Side 5	0.1	0.058	614	184.2
Side 6	0.1	0.018	614	184.2

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Magnetic Field Emissions

Charging at Battery Capacity = 10 %

Side	Separation Distance(m)	H-field(A/m)	H-field(A/m)Limit	H-field(A/m)Limit 30%
Side 1	0.1	0.00013	1.63	0.489
Side 2	0.1	0.00007	1.63	0.489
Side 3	0.1	0.00008	1.63	0.489
Side 4	0.1	0.00007	1.63	0.489
Side 5	0.1	0.00025	1.63	0.489
Side 6	0.1	0.00007	1.63	0.489

Charging at Battery Capacity = 50 %

Side	Separation Distance(m)	H-field(A/m)	H-field(A/m)Limit	H-field(A/m)Limit 30%
Side 1	0.1	0.00014	1.63	0.489
Side 2	0.1	0.00008	1.63	0.489
Side 3	0.1	0.00009	1.63	0.489
Side 4	0.1	0.00007	1.63	0.489
Side 5	0.1	0.00023	1.63	0.489
Side 6	0.1	0.00008	1.63	0.489

Charging at Battery Capacity = 90 %

Side	Separation Distance(m)	H-field(A/m)	H-field(A/m)Limit	H-field(A/m)Limit 30%
Side 1	0.1	0.00014	1.63	0.489
Side 2	0.1	0.00008	1.63	0.489
Side 3	0.1	0.00007	1.63	0.489
Side 4	0.1	0.00010	1.63	0.489
Side 5	0.1	0.00024	1.63	0.489
Side 6	0.1	0.00007	1.63	0.489

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Conducted Power Measurement

Battery Capacity	Frequency (kHz)	Voltage (V)	Current (A)	Power (W)
10%	117.7	14.86	1.23	18.28
50%	125.1	15.27	1.31	20.00
90%	134.4	14.92	1.27	18.95

Charging at Battery Capacity = 10 %

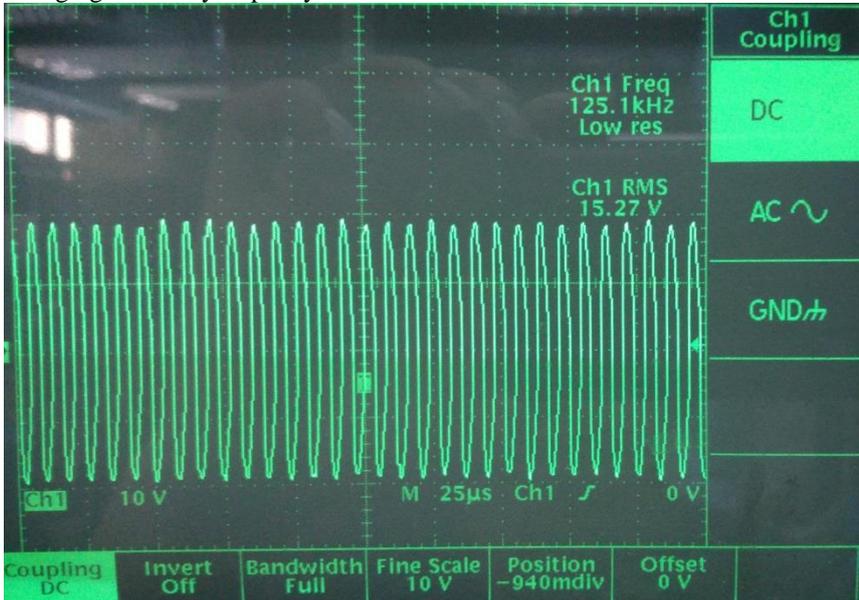


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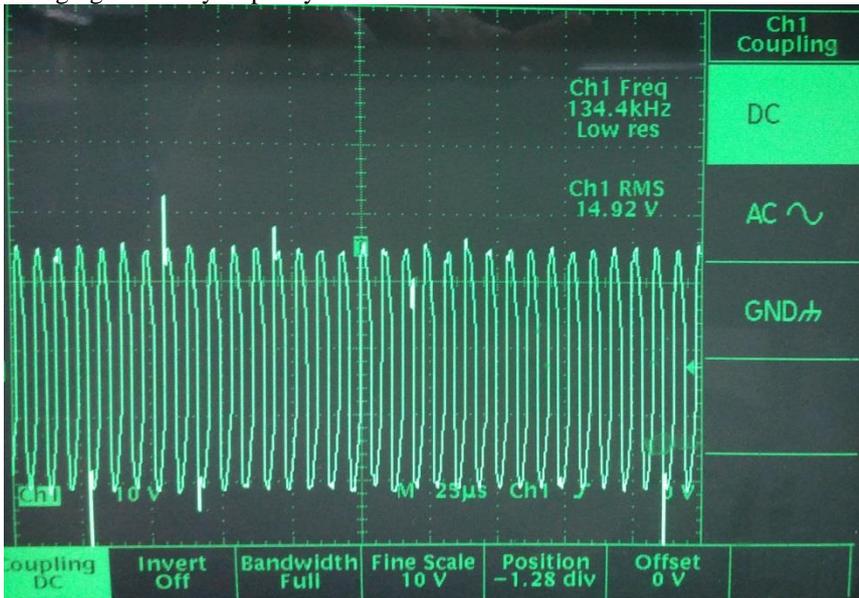
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Charging at Battery Capacity = 50 %



Charging at Battery Capacity = 90 %



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