

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea TEL: +82-31-645-6300 FAX: +82-31-645-6401

RF Exposure Report

Applicant Name:

SAMSUNG Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-

do, 16677 Rep. of Korea

Date of Issue: Nov. 26, 2021

Test Report No.: HCT-SR-2111-FC001

Test Site: HCT CO., LTD.

FCC ID:

A3LSMX808U

Equipment Type: Tablet

Application Type Certification

FCC Rule Part(s): KDB 680106 D01

Model Name: SM-X808U

Date of Test: 11/03/2021

This device has been shown to be capable of compliance for the above standars for uncontrolled environment/general population exposure limits specified in FCC KDB procedures and had been tested in accordance with the measurement procedures specified in FCC KDB procedures.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested By

Jung Hun, Park

Test Engineer SAR Team

Certification Division

Reviewed By

Yun-jeang, Heo Technical Manager SAR Team

Certification Division

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F-TP22-03 (Rev.00) HCT CO., LTD.



FCC ID: A3LSMX808U

Report No: HCT-SR-2111-FC001

DOCUMENT HISTORY

Rev.	DATE	DESCRIPTION
0	Nov. 26, 2021	First Approval Report

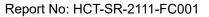




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1. Test Methodology

Per FCC Guidance, WPT Fuction was evaluated for portable exposure condition.

2. Test Location.

2.1 Test Laboratory.

Company Name:	HCT Co., LTD
Address:	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of Korea
Telephone:	+82 31 645 6300
Fax.:	+82 31 645 6401

2.2 Test Facillities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

National Radio Research Agency (Designation No. KR0032)	
Korea:	KOLAS (Tesing No. KT197)



3. DEVICE UNDER TEST DESCRIPTION

Applicant Name:	SAMSUNG Electronics Co., Ltd.	
Model:	SM-X808U	
EUT Type:	Tablet	
Application Type:	Certification	

The device uses only magnetic induction which is a technology that charges a battery by generating a magnetic field by flowing a current through the transmitter coil, and then entering a magnetic field into the receiver coil to generate an induced current again.

Therefore, RF exposure through measurement and calculation of H-field were investigated.

- Test mode: power is transferred from "Tablet coil" to "S-pen coil"

Operating Frequency(MHz)	530kHz
Maximum output Power(mW)	50
Charging Type	Inductive wireless Power transfer

Description Of S-PEN:(EJ-PT870: FCC ID: A3LEJPT870)

The device supports S-Pen. The S-Pen is accessories such as touch pen. Usually built into the device, but user take it out, when user uses to note or control on device using BLE mode. The S-Pen is also an electronic product and charges through the device. In this case, S-Pen is charged by WPT(Wireless Power Transfer) function. Charging is the way in which power is transferred from "FPCB's coil in device" to "S-Pen's coil"..

Battery in the EJ-PT870 will be charged wirelessly from Tablet via 530 kHz frequency More detail description, Please refer to Operational description document.

All Position of S-Pen were investigated and the worst position results are reported.

For S-Pen, both fully charged and non-fully charged condition were investigated. Test were performed non-fully charged condition as worst case.



4. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report:

Manufacturer	Model namr	Description	S/N	Calib. Date	Calib.Due
Narda	EHP-200AC	Electric and Magnetic Field Probe	170WX91009	11/22/2019	11/22/2021

The Narda EHP-200AC has physical dimensions of 92 x 92 x 109mm. So the center of the probe would be at 46 x 46 x 54mm. When the probe measures the H-field of the device,, the long axis of the probe (109mm) is perpendicular to the rear surface of the DUT. So when the probe is in direct contact with the rear of the device, the center of the probe would be 54mm away.

5. MAXIMUM PERMISSIBLE RE EXPOSURE

5.1 FCC RULES

1.13010 The criteria listed in Table 1 shall be used to evaluate the envirimental impact of human exposure to radio-frequency(RF) ragiation as specified in 1.1307(b), except in the case of portable devices which shall ge evaluated according th the provisions of 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
(A) Lim	its for Occupational	//Controlled Exposu	res			
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842# 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6		
(B) Limits for General Population/Uncontrolled Exposure						
0.3–1.34	614 824/f	1.63 2.19/f	*(100) *(180/f²)	30 30		

Table 1—Limits for Maximum Permissible Exposure (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
30–300 300–1500 1500–100,000	27.5	0.073	0.2 f/1500 1.0	30 30 30	

f = frequency in MHz

* = Plane-wave equivalent power density
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occu-

pational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



FCC ID: A3LSMX808U

Report No: HCT-SR-2111-FC001

6. TEST RESULTS

6.1 H-Field measurement results of DUT's 6 sides

H-Field Measurement (A/m)						
The Direct contact from the edge of the Device to the center of the measurement Probe	Rear	Front	Left	Right	Тор	Bottom
5.4 cm	0.2303	0.0108	0.005	0.0784	0.0194	0.0049

Note: All measurement sides are taken into account with respect to the front side of the DUT.

The contact distance between the device and the probe is 5.4 cm from the center of the probe.

6.2 H-field measurement results at Rear side

H-Field Results Measurement (A/m)					
The Distance from the Rear of the device to	FCC				
the center of the measurement probe (cm)	Meas. (A/m)	H-Field Limit (A/m)			
5.4	0.2303				
6.4	0.1305				
7.4	0.0608				
8.4	0.0472				
9.4	0.0239				
10.4	0.0153	1.63			
11.4	0.0105				
12.4	0.0072				
13.4	0.0068				
14.4	0.0052				
15.4	0.0050				

6.3 FCC SUMMARYOF RESULTS

1) Measurement Result

Measurement procedure was performed per FCC Guidance.

All Position of S-Pen were investigated and the worst position results a reported

H-Field Limit				
FCC RF Exposure	Maximum meas data (A/m)	Percentage(%)		
1.63	0.2303	14.1		

H-Field test result was less than 50% of MPE limit



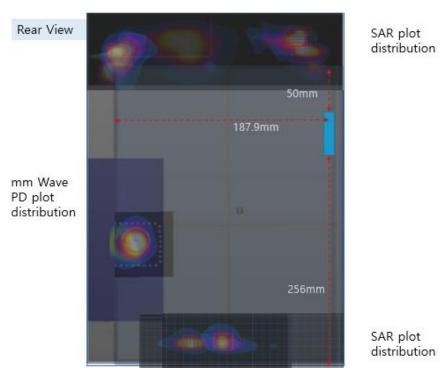
2) Simultaneous Transmission Analysys.

The Location of the WPT Tx coils of the S-Pen is far enough not to affect considering the position of the SAR distribution plot in the 3G/4G/5GWLAN/BT mode and the PD distribution plot in mmWave.

In addition, when measuring the H-field of WPT of SPEN, it was measured by activating the Tx of other antennas, and the measurement results were lower than 50% of FCC's Limit.

In addition, the SAR measurement results of Main band and WLAN with S-Pen(8mm Width) touched on the DUT were much lower than those measured without S-Pen.

The results of the simultaneous transmission evaluation are as follows



Rear side overlay showing SAR and PD peak distribution

TER Considerations

1.Total Exposure Ratio: SAR +S-PEN WPT

The total TER result obtained by summing the test results of the SAR worst case equipped with S-Pen (8mmwith S-PEN)in the DUT and the WPT test results of S-Pen is 0.691. FCC's limit was satisfied because the TER result is less than 1

Total Exposure Ratio		H-Field		SAR Measurement Resuts [W/kg]														TER (SAR + H-Field)													
Band	Configuration	S-Pen WPT	Main	Bluetooth Ant1	Bluetooth Ant2	Bluetooth Ant1 Sub6 On	Bluetooth Ant2 Sub6 On	2.4GHz Ant2	2.4GHz MIMO	2.4GHz Ant2 RSDB= Sub6 On	2.4GHz MIMO RSDB= Sub6 On	5GHz Ant.2	5GHz MIMO	5GHz Ant.2 RSDB= Sub6 On	5GHz MIMO RSDB= Sub6 On	WI-FI 6E MIMO	WI-FI 6E MIMO RSDB= Sub6 On	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ
		A/m	- 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1+3	1+3+14	1+3+11	1+2	1+2+14	1+2+11	1+2+6	1+9+15	1+9+13	1+7	1+11	1+14	1+2+8+13	1+2+8+15
	Limit	1.63	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
UMTS B5	Rear (8mm)	0.230	0.342	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.459	0.772	0.873	0.398	0.711	0.812	0.693	0.722	0.813	0.803	0.756	0.655	0.799	0.709
OM13 BU	Limit to Ratio	0.141																0.428	0.623	0.687	0.390	0.586	0.649	0.574	0.593	0.649	0.643	0.614	0.551	0.641	0.584
UMTS B4	Rear (8mm)	0.230	0.216	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.332	0.645	0.746	0.272	0.585	0.686	0.567	0.596	0.686	0.677	0.630	0.529	0.673	0.582
UMIS B4	Limit to Ratio	0.141																0.349	0.544	0.608	0.311	0.507	0.570	0.495	0.513	0.570	0.564	0.535	0.472	0.562	0.505
UMTS B2	Rear (8mm)	0.230	0.249	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.366	0.679	0.780	0.305	0.618	0.719	0.600	0.629	0.720	0.710	0.663	0.562	0.706	0.616
UMIS B2	Limit to Ratio	0.141																0.370	0.565	0.628	0.332	0.528	0.591	0.516	0.534	0.591	0.585	0.556	0.493	0.583	0.526
LTE B2/25	Rear (8mm)	0.230	0.251	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.368	0.681	0.782	0.307	0.620	0.721	0.602	0.631	0.722	0.712	0.665	0.564	0.708	0.618
LIE BZ/ZJ	Limit to Ratio	0.141																0.371	0.567	0.630	0.333	0.529	0.592	0.518	0.536	0.592	0.586	0.557	0.494	0.584	0.527
LTE B4/66	Rear (8mm)	0.230	0.237	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.353	0.666	0.767	0.293	0.606	0.707	0.588	0.617	0.707	0.698	0.651	0.550	0.694	0.603
	Limit to Ratio	0.141																0.362	0.558	0.621	0.324	0.520	0.583	0.509	0.527	0.583	0.577	0.548	0.485	0.575	0.518
LTE B5	Rear (8mm)	0.230	0.350	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.466	0.779	0.880	0.406	0.719	0.820	0.701	0.730	0.820	0.811	0.764	0.663	0.807	0.716
	Limit to Ratio	0.141																0.433	0.628	0.691	0.395	0.590	0.654	0.579	0.597	0.654	0.648	0.619	0.555	0.645	0.589
LTE B7	Rear (8mm)	0.230	0.126	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.242	0.555	0.656	0.182	0.495	0.596	0.477	0.506	0.596	0.587	0.540	0.439	0.583	0.492
LIE B/	Limit to Ratio	0.141																0.293	0.488	0.551	0.255	0.450	0.514	0.439	0.457	0.514	0.508	0.479	0.415	0.505	0.449
LTE B12	Rear (8mm)	0.230	0.138	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.255	0.568	0.669	0.194	0.507	0.608	0.489	0.518	0.609	0.599	0.552	0.451	0.595	0.505
LIEBIZ	Limit to Ratio	0.141																0.301	0.496	0.559	0.263	0.458	0.522	0.447	0.465	0.522	0.516	0.487	0.423	0.513	0.457
LTE B13	Rear (8mm)	0.230	0.154	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.271	0.584	0.685	0.210	0.523	0.624	0.505	0.534	0.625	0.615	0.568	0.467	0.611	0.521
LIE BI3	Limit to Ratio	0.141																0.310	0.506	0.569	0.273	0.468	0.531	0.457	0.475	0.532	0.526	0.496	0.433	0.523	0.467
LTE B26	Rear (8mm)	0.230	0.215	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.332	0.645	0.746	0.271	0.584	0.685	0.566	0.595	0.686	0.676	0.629	0.528	0.672	0.582
LIE BZ0	Limit to Ratio	0.141																0.349	0.544	0.607	0.311	0.506	0.569	0.495	0.513	0.570	0.564	0.534	0.471	0.561	0.505
	Rear (8mm)	0.230	0.161	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.277	0.590	0.691	0.217	0.530	0.631	0.512	0.541	0.631	0.622	0.575	0.474	0.618	0.527
LTE B41	Limit to Ratio	0.141																0.315	0.510	0.573	0.277	0.472	0.535	0.461	0.479	0.536	0.530	0.500	0.437	0.527	0.471
	Rear (8mm)	0.230	0.161	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.277	0.590	0.691	0.217	0.530	0.631	0.512	0.541	0.631	0.622	0.575	0.474	0.618	0.527
LTE B41(PC2)	Limit to Ratio	0.141																0.315	0.510	0.573	0.277	0.472	0.535	0.461	0.479	0.536	0.530	0.500	0.437	0.527	0.471
	Rear (8mm)	0.230	0.315	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.432	0.745	0.846	0.371	0.684	0.785	0.666	0.695	0.786	0.776	0.729	0.628	0.772	0.682
LTE B71	Limit to Ratio	0.141																0.411	0.607	0.670	0.373	0.569	0.632	0.558	0.576	0.632	0.626	0.597	0.534	0.624	0.567



Band	Configuration	S-Pen WPT	Main	Bluetooth Ant1	Bluetooth Ant2	Bluetooth Ant1 Sub6 On	Bluetooth Ant2 Sub6 On	2.4GHz Ant2	2.4GHz MIMO	2.4GHz Ant2 RSDB= Sub6 On	2.4GHz MIMO RSDB= Sub6 On	5GHz Ant.2	5GHz MIMO	5GHz Ant.2 RSDB= Sub6 On	5GHz MIMO RSDB= Sub6 On	WI-FI 6E MIMO	WI-FI 6E MIMO RSDB= Sub6 On	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ
		A/m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1+5	1+5+15	1+5+13	1+4	1+4+15	1+4+13	1+4+8	1+9+15	1+9+13	1+9	1+13	1+15	1+4+8+13	1+4+8+15
	Limit	1.63	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Sub 1 ANT LTE B2	Rear (8mm)	0.230	0.211	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.293	0.450	0.541	0.247	0.404	0.495	0.400	0.591	0.682	0.434	0.459	0.369	0.648	0.557
(only EN-DC)	Limit to Ratio	0.141																0.324	0.423	0.479	0.295	0.394	0.450	0.391	0.511	0.567	0.412	0.428	0.372	0.546	0.489
Sub 1 ANT LTE 7	Rear (8mm)	0.230	0.158	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.240	0.397	0.488	0.194	0.351	0.442	0.347	0.538	0.629	0.381	0.406	0.316	0.595	0.504
(only EN-DC)	Limit to Ratio	0.141																0.291	0.389	0.446	0.262	0.361	0.417	0.358	0.478	0.534	0.379	0.395	0.338	0.513	0.456
Sub 1 ANT LTE 66	Rear (8mm)	0.230	0.201	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.283	0.440	0.531	0.237	0.394	0.485	0.390	0.581	0.672	0.424	0.449	0.359	0.638	0.547
(only EN-DC)	Limit to Ratio	0.141																0.318	0.416	0.473	0.289	0.388	0.444	0.385	0.504	0.561	0.406	0.422	0.365	0.540	0.483
N5	Rear (8mm)	0.230	0.305	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.387	0.544	0.635	0.341	0.498	0.589	0.494	0.685	0.776	0.528	0.553	0.463	0.742	0.651
	Limit to Ratio	0.141																0.383	0.482	0.538	0.354	0.453	0.509	0.450	0.570	0.626	0.471	0.487	0.431	0.605	0.548
N25	Rear (8mm)	0.230	0.220	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.301	0.459	0.549	0.255	0.413	0.503	0.408	0.600	0.690	0.442	0.468	0.377	0.656	0.566
	Limit to Ratio	0.141																0.330	0.428	0.485	0.301	0.399	0.456	0.396	0.516	0.573	0.418	0.434	0.377	0.551	0.495
N41(PC3)	Rear (8mm)	0.230	0.102	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.184	0.341	0.432	0.138	0.295	0.386	0.291	0.482	0.573	0.325	0.350	0.260	0.539	0.448
	Limit to Ratio	0.141																0.256	0.354	0.411	0.227	0.326	0.382	0.323	0.443	0.499	0.344	0.360	0.303	0.478	0.421
N41(PC2)	Rear (8mm)	0.230	0.108	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.190	0.347	0.438	0.144	0.301	0.392	0.297	0.488	0.579	0.331	0.356	0.266	0.545	0.454
141(1 02)	Limit to Ratio	0.141																0.260	0.358	0.415	0.231	0.329	0.386	0.327	0.446	0.503	0.348	0.364	0.307	0.482	0.425
N66	Rear (8mm)	0.230	0.289	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.370	0.528	0.618	0.324	0.482	0.572	0.477	0.669	0.759	0.511	0.537	0.446	0.725	0.635
NOO	Limit to Ratio	0.141																0.373	0.471	0.528	0.344	0.442	0.499	0.439	0.559	0.616	0.461	0.477	0.420	0.594	0.538
N71	Rear (8mm)	0.230	0.110	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.192	0.349	0.440	0.146	0.303	0.394	0.299	0.490	0.581	0.333	0.358	0.268	0.547	0.456
IV/ I	Limit to Ratio	0.141																0.261	0.359	0.416	0.232	0.331	0.387	0.328	0.448	0.504	0.349	0.365	0.308	0.483	0.426
N77(DoD PC3)	Rear (8mm)	0.230	0.050	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.131	0.289	0.379	0.085	0.243	0.333	0.238	0.430	0.520	0.272	0.298	0.207	0.486	0.396
THI (BOD TOO)	Limit to Ratio	0.141																0.223	0.322	0.378	0.195	0.293	0.350	0.290	0.410	0.466	0.311	0.327	0.271	0.445	0.389
N77(DoD PC2)	Rear (8mm)	0.230	0.050	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.131	0.289	0.379	0.085	0.243	0.333	0.238	0.430	0.520	0.272	0.298	0.207	0.486	0.396
N//(DOD FG2)	Limit to Ratio	0.141																0.223	0.322	0.378	0.195	0.293	0.350	0.290	0.410	0.466	0.311	0.327	0.271	0.445	0.389
N77(PC3)	Rear (8mm)	0.230	0.090	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.171	0.329	0.419	0.125	0.283	0.373	0.278	0.470	0.560	0.312	0.338	0.247	0.526	0.436
	Limit to Ratio	0.141																0.248	0.347	0.403	0.219	0.318	0.374	0.315	0.435	0.491	0.336	0.352	0.296	0.470	0.414
NATADON	Rear (8mm)	0.230	0.089	0.056	0.117	0.036	0.082	0.295	0.461	0.153	0.223	0.363	0.414	0.229	0.248	0.313	0.158	0.170	0.328	0.418	0.124	0.282	0.372	0.277	0.469	0.559	0.311	0.337	0.246	0.525	0.435
N77(PC2)	Limit to Ratio	0.141																0.248	0.346	0.403	0.219	0.318	0.374	0.315	0.434	0.491	0.336	0.352	0.295	0.470	0.413

2.TER Total Exposure Ratio :PD+ SAR +S-PEN WPT

PD+ SAR+S-PEN WPT's TER is evaluated in sec.8 of Power density Part 1 Report, and the TER is 0.998. FCC's limit was satisfied because the TER result is less than 1