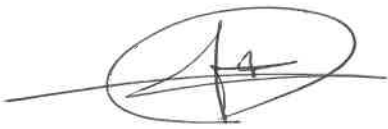



TEST REPORT

FCC Part 15C

Equipment under test Wireless Charger for SMART INSOLE**Model name** ST-WPAD001**FCC ID** 2AL6N-ST-WPAD001**Applicant** Salted Co., Ltd.**Manufacturer** Salted Co., Ltd.**Date of test(s)** 2022.10.04 ~ 2022.10.06**Date of issue** 2022.10.12**Issued to****Salted Co., Ltd.**6F, 603, Eunji-ro, Gangnam-gu, Seoul, South Korea
Tel: +82-10-9770-5363 / Fax: +82-2-558-0815**Issued by****KES Co., Ltd.**3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si,
Gyeonggi-do, 14057, Korea
473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450

Test and report completed by :	Report approval by :
	
Bong-Seok, Kim Test engineer	Young-Jun, Cho Technical manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.

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Report No.:
KES-RF1-22T0138
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Revision history

Revision	Date of issue	Test report No.	Description
-	2022.10.12	KES-RF1-22T0138	Initial

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1. General information

Applicant: Salted Co., Ltd.
Applicant address: 6F, 603, Eonju-ro, Gangnam-gu, Seoul, South Korea
Test site: KES Co., Ltd.
Test site address: 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea43
 473-29, Gayeo-ro, Yeosu-si, Gyeonggi-do, Korea
Test Facility: FCC Accreditation Designation No.: KR0100, Registration No.: 444148
FCC rule part(s): Part 15C
FCC ID: 2AL6N-ST-WPAD001
Test device serial No. Production Pre-production Engineering

1.1. EUT description

Equipment under test: Wireless Charger for SMART INSOLE
Frequency: 0.200 MHz (WPT), 2 402 MHz ~ 2 480 MHz (BLE)
Inductive charging technique: Magnetic Induction
Model: ST-WPAD001
Antenna specification: Internal type (Coil antenna)
Power source: AC 120 V (Adapter Output DC 5 V)
S/W Version: Revision 1.1
H/W version: 1.01

1.2. Test configuration

The **Salted Co., Ltd. //Wireless Charger fod SMART INSOLE // ST-WPAD001 //**
FCC ID: 2AL6N-ST-WPAD001 was tested according to the specification of EUT, the EUT must comply with following standards.

FCC Part 15C
ANSI C63.10-2013

1.3. Test frequency

		Frequency Range
Power source	AC 120 V (Adapter Output DC 5 V)	0.200 MHz

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1.4. Test mode

Mode	Charging current	Description
Charging mode With load	90%	Using Max load
	50%	Using Mid load
	10%	Using Min load

1.5. Information about derivative model

N/A

1.6. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
SMART INSOLE 1	Salted Co., Ltd.	ST-BTIN003L	-	DC 3.7 V (Battery)
SMART INSOLE 2	Salted Co., Ltd.	ST-BTIN003R	-	DC 3.7 V (Battery)

1.7. Measurement Uncertainty

Test Item		Uncertainty
Uncertainty for Conduction emission test		2.38 dB (SHIELD ROOM #6)
Uncertainty for Radiation emission test (include Fundamental emission)	Below 1 GHz	4.50 dB (SAC #6)
	Above 1 GHz	4.90 dB (SAC #5)
Note. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

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2. Summary of tests

FCC Part Sections	Parameter	Test results
15.209	Radiated spurious emission	Pass
2.1049	20 dB Bandwidth	Pass
15.207	AC conducted emissions	Pass

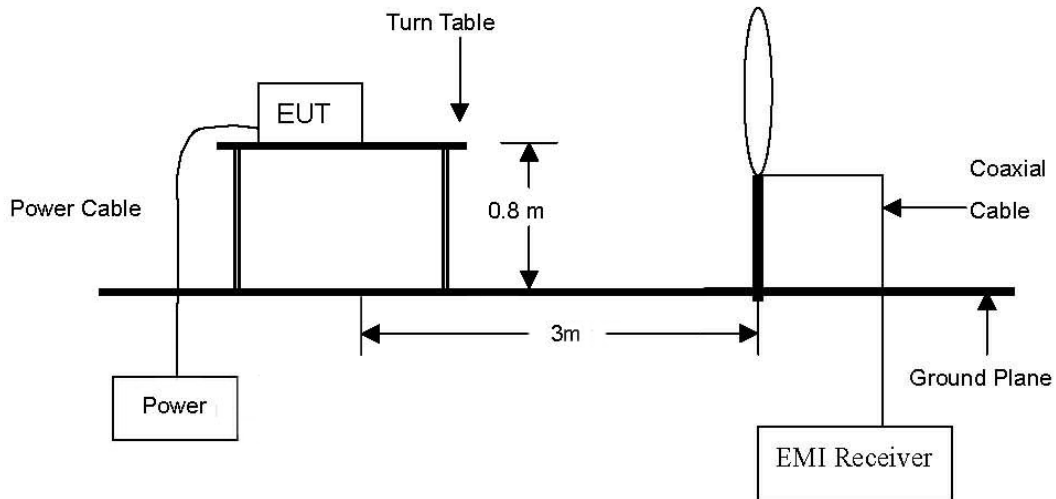
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3. Test results

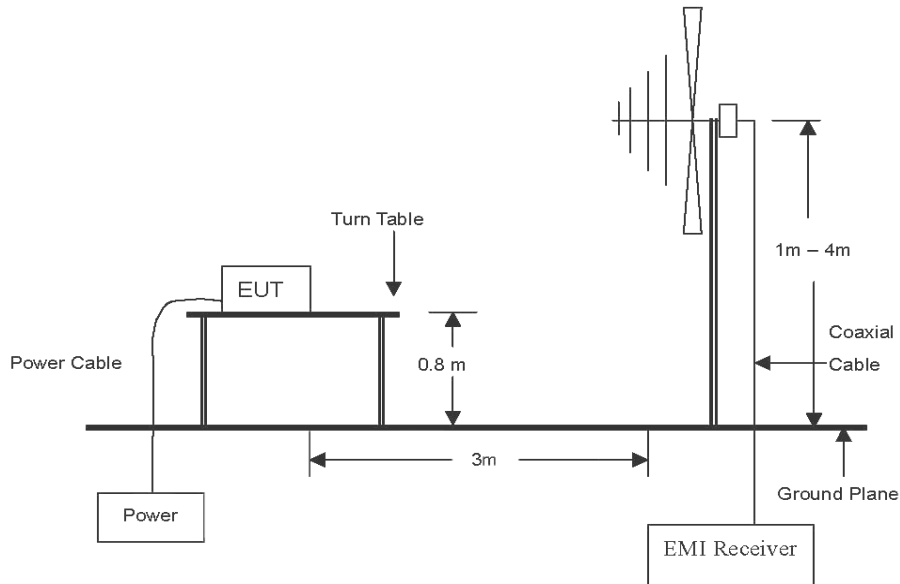
3.1. Radiated spurious emission

Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



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Test procedure

[9 kHz to 30 MHz]

The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular and ground parallel of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Quasi-peak function and specified bandwidth with maximum hold mode.

[30 MHz to 1 GHz]

The height of the measuring antenna was varied between 1 to 4 m and the table was rotated a full revolution in order to obtain maximum values of the electric field intensity.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

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Note:

1. According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
2. Measurement distance : 3 m.
3. Field strength = Level + Correction factor + F_d
4. $F_d = 40\log(D_m / D_s)$

Where:

- F_d = Distance factor in dB
- D_m = Measurement distance in meters
- D_s = Specification distance in meters

For 300m: $40\log(300/3) = 80$ dB for frequency band 0.009 MHz to 0.490 MHz

For 30m: $40\log(30/3) = 40$ dB for frequency band 0.490 MHz to 30 MHz

5. No significant emissions were found in the 90 - 110kHz restricted band.

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Limit

According to 15.209(a), for an intentional radiator devices, the general required of field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values :

Frequency (MHz)	Distance (Meters)	Radiated ($\mu\text{V}/\text{m}$)
0.009 ~ 0.490	300	2400 / F(kHz)
0.490 ~ 1.705	30	24000 / F(kHz)
1.705 ~ 30.0	30	30
30 ~ 88	3	100**
88 ~ 216	3	150**
216 ~ 960	3	200**
Above 960	3	500

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 ~ 72 MHz, 76 ~ 88 MHz, 174 ~ 216 MHz or 470 ~ 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

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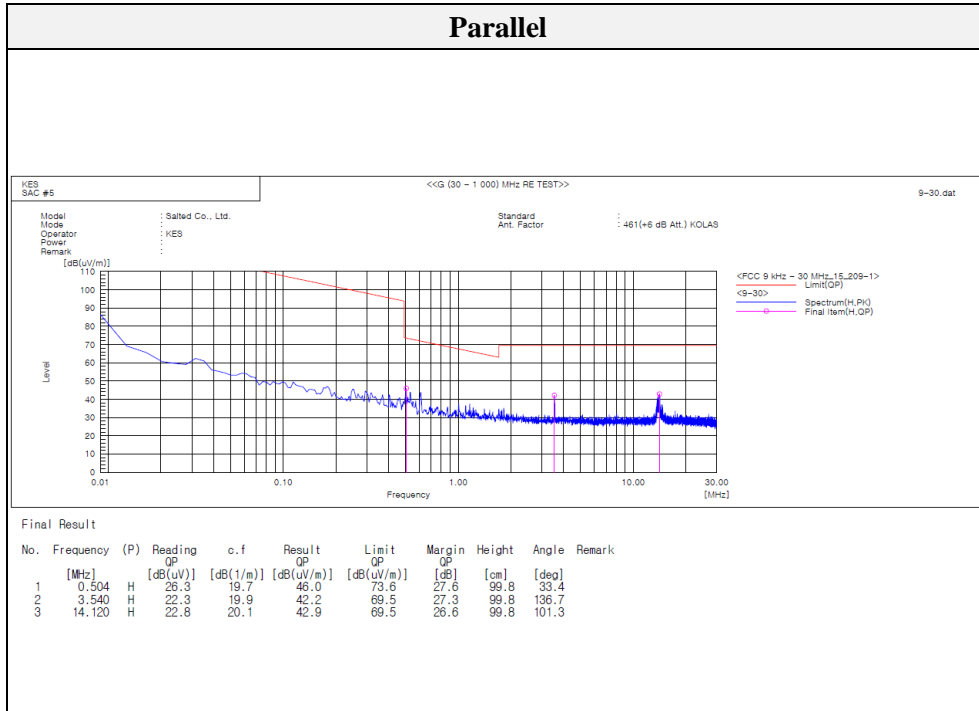
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Test results (Below 30 MHz)

Mode: 5 W // 10 % charger

Distance of measurement: 3 meter



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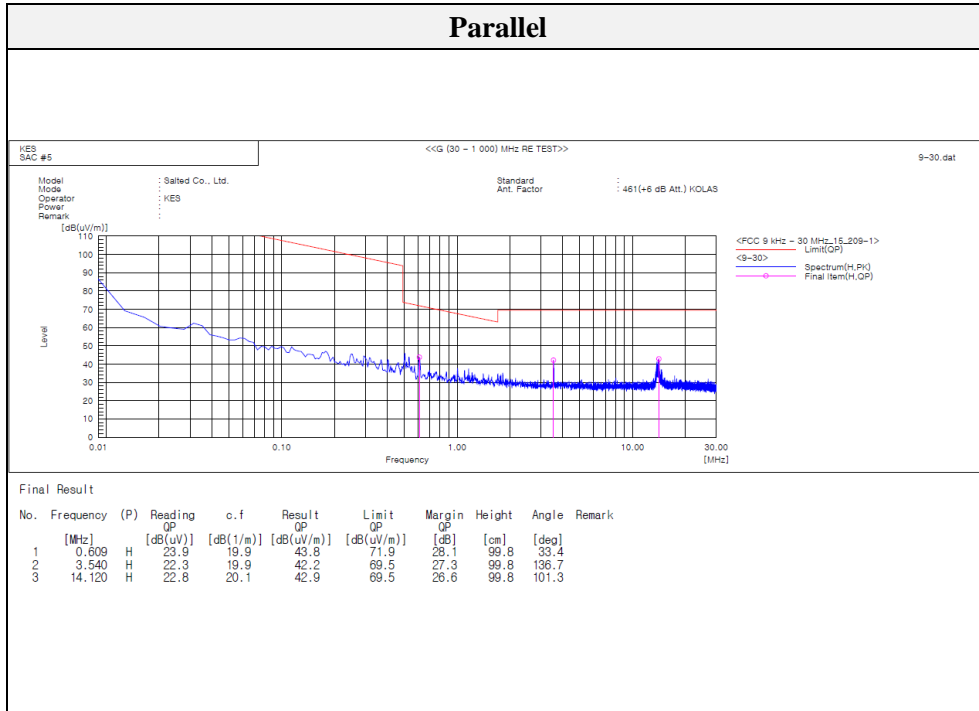
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Mode: 5 W // 50 % charger

Distance of measurement: 3 meter



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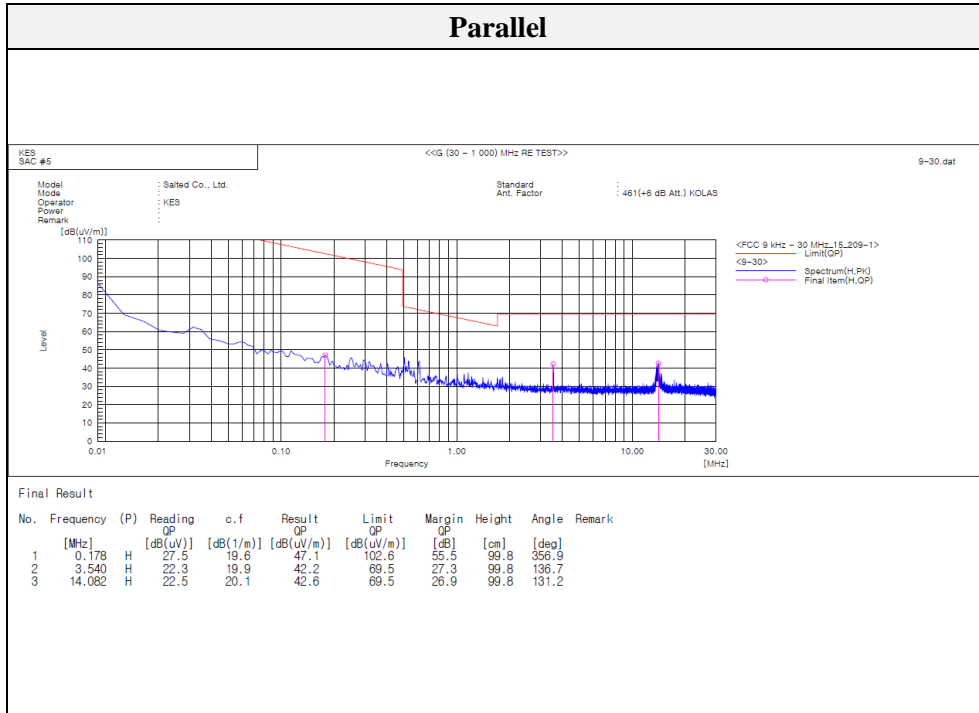
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Mode: 5 W // 90 % charge

Distance of measurement: 3 meter



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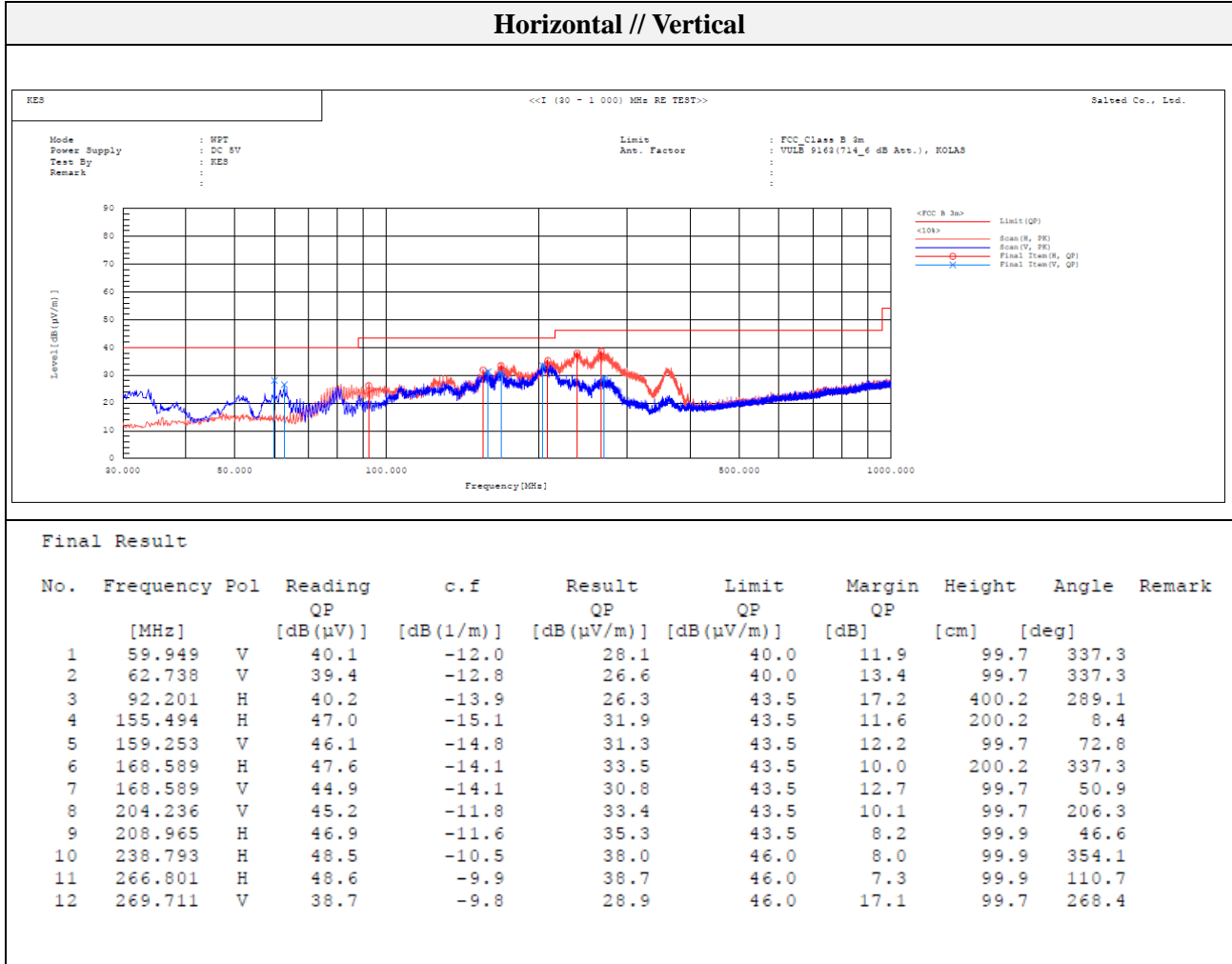
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Test results (Below 1 000 MHz)

Mode: 5 W // 10 % charge

Distance of measurement: 3 meter

Horizontal // Vertical



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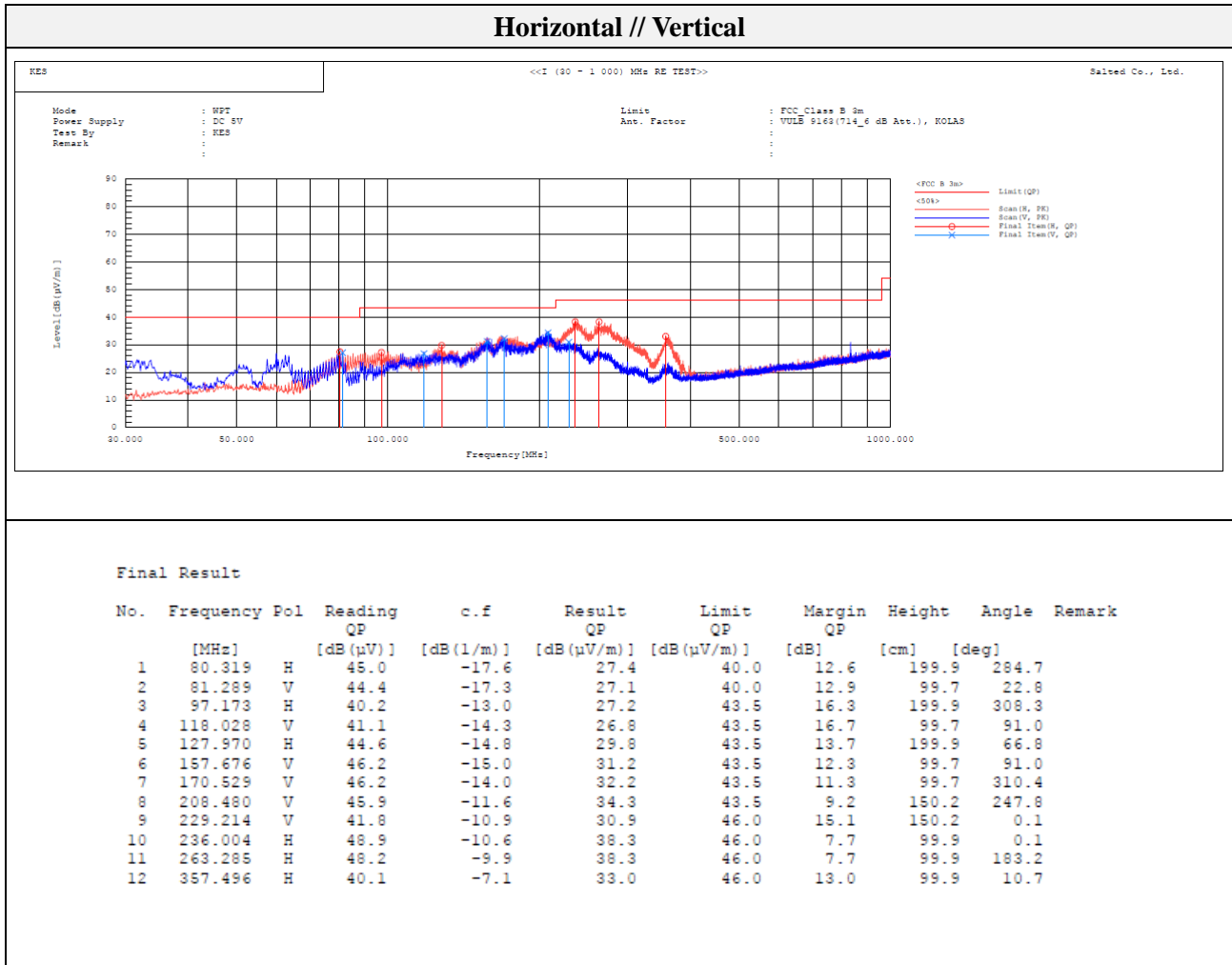
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Mode: 5 W // 50 % charge

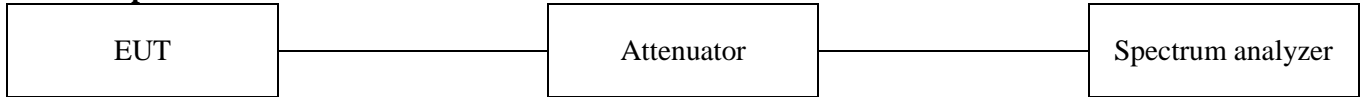
Distance of measurement: 3 meter



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3.2. 20 dB Bandwidth

Test setup



Test procedures

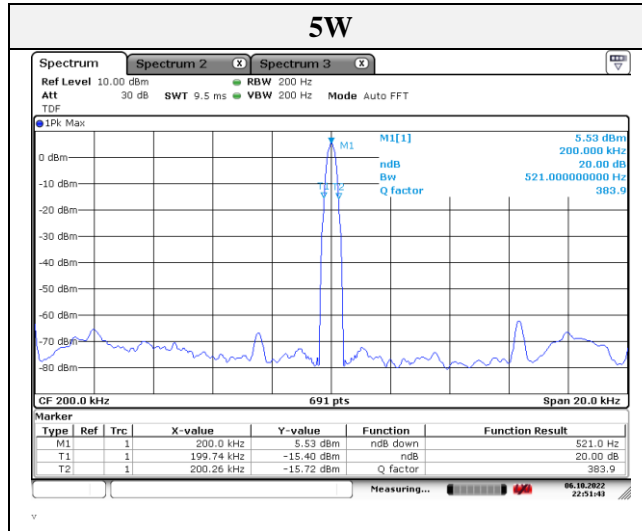
The transmitter output is connected to a spectrum analyzer. The RBW is set to $\geq 1\%$ of the emission bandwidth. The VBW is set to $\geq RBW$. The sweep time is coupled.

Limit

None; for reporting purposes only.

Test results

Test Mode	Frequency(MHz)	Measured bandwidth(kHz)
5 W	0.200	0.000 5



Note.

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

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3.3. AC conducted emissions

Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50



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Test results

Mode: 5W // 90 % charge
(Worst Case)

Hot Line																																																																																																																						
	<p>Final Result</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dBμV)</th> <th>Average (dBμV)</th> <th>Limit (dBμV)</th> <th>Margin (dB)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Line</th> <th>Corr. (dB)</th> </tr> </thead> <tbody> <tr><td>0.602000</td><td>---</td><td>6.62</td><td>46.00</td><td>39.38</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.0</td></tr> <tr><td>0.602000</td><td>22.52</td><td>---</td><td>56.00</td><td>33.48</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.0</td></tr> <tr><td>0.606000</td><td>---</td><td>6.42</td><td>46.00</td><td>39.58</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.0</td></tr> <tr><td>0.606000</td><td>22.22</td><td>---</td><td>56.00</td><td>33.78</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.0</td></tr> <tr><td>4.946000</td><td>---</td><td>8.28</td><td>46.00</td><td>37.72</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>4.946000</td><td>21.73</td><td>---</td><td>56.00</td><td>34.27</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>4.954000</td><td>---</td><td>8.23</td><td>46.00</td><td>37.77</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>4.954000</td><td>21.67</td><td>---</td><td>56.00</td><td>34.33</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>7.610000</td><td>---</td><td>9.19</td><td>50.00</td><td>40.81</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>7.610000</td><td>24.26</td><td>---</td><td>60.00</td><td>35.74</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>23.998000</td><td>---</td><td>9.29</td><td>50.00</td><td>40.71</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.0</td></tr> <tr><td>23.998000</td><td>14.48</td><td>---</td><td>60.00</td><td>45.52</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.0</td></tr> </tbody> </table>	Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	0.602000	---	6.62	46.00	39.38	1000.0	9.000	L1	20.0	0.602000	22.52	---	56.00	33.48	1000.0	9.000	L1	20.0	0.606000	---	6.42	46.00	39.58	1000.0	9.000	L1	20.0	0.606000	22.22	---	56.00	33.78	1000.0	9.000	L1	20.0	4.946000	---	8.28	46.00	37.72	1000.0	9.000	L1	19.9	4.946000	21.73	---	56.00	34.27	1000.0	9.000	L1	19.9	4.954000	---	8.23	46.00	37.77	1000.0	9.000	L1	19.9	4.954000	21.67	---	56.00	34.33	1000.0	9.000	L1	19.9	7.610000	---	9.19	50.00	40.81	1000.0	9.000	L1	19.9	7.610000	24.26	---	60.00	35.74	1000.0	9.000	L1	19.9	23.998000	---	9.29	50.00	40.71	1000.0	9.000	L1	21.0	23.998000	14.48	---	60.00	45.52	1000.0	9.000	L1	21.0
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)																																																																																																														
0.602000	---	6.62	46.00	39.38	1000.0	9.000	L1	20.0																																																																																																														
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0.606000	22.22	---	56.00	33.78	1000.0	9.000	L1	20.0																																																																																																														
4.946000	---	8.28	46.00	37.72	1000.0	9.000	L1	19.9																																																																																																														
4.946000	21.73	---	56.00	34.27	1000.0	9.000	L1	19.9																																																																																																														
4.954000	---	8.23	46.00	37.77	1000.0	9.000	L1	19.9																																																																																																														
4.954000	21.67	---	56.00	34.33	1000.0	9.000	L1	19.9																																																																																																														
7.610000	---	9.19	50.00	40.81	1000.0	9.000	L1	19.9																																																																																																														
7.610000	24.26	---	60.00	35.74	1000.0	9.000	L1	19.9																																																																																																														
23.998000	---	9.29	50.00	40.71	1000.0	9.000	L1	21.0																																																																																																														
23.998000	14.48	---	60.00	45.52	1000.0	9.000	L1	21.0																																																																																																														
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	<p>Final Result</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dBμV)</th> <th>Average (dBμV)</th> <th>Limit (dBμV)</th> <th>Margin (dB)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Line</th> <th>Corr. (dB)</th> </tr> </thead> <tbody> <tr><td>0.446000</td><td>---</td><td>6.87</td><td>46.95</td><td>40.08</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.8</td></tr> <tr><td>0.446000</td><td>13.63</td><td>---</td><td>56.95</td><td>43.32</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.8</td></tr> <tr><td>0.602000</td><td>---</td><td>4.99</td><td>46.00</td><td>41.01</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>0.602000</td><td>15.46</td><td>---</td><td>56.00</td><td>40.54</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>4.838000</td><td>---</td><td>6.40</td><td>46.00</td><td>39.60</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>4.838000</td><td>12.73</td><td>---</td><td>56.00</td><td>43.27</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>4.934000</td><td>---</td><td>6.49</td><td>46.00</td><td>39.51</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>4.934000</td><td>12.95</td><td>---</td><td>56.00</td><td>43.05</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>7.598000</td><td>---</td><td>6.46</td><td>50.00</td><td>43.54</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>7.598000</td><td>14.01</td><td>---</td><td>60.00</td><td>45.99</td><td>1000.0</td><td>9.000</td><td>N</td><td>19.9</td></tr> <tr><td>29.902000</td><td>---</td><td>8.85</td><td>50.00</td><td>41.15</td><td>1000.0</td><td>9.000</td><td>N</td><td>21.3</td></tr> <tr><td>29.902000</td><td>11.00</td><td>---</td><td>60.00</td><td>49.00</td><td>1000.0</td><td>9.000</td><td>N</td><td>21.3</td></tr> </tbody> </table>	Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	0.446000	---	6.87	46.95	40.08	1000.0	9.000	N	19.8	0.446000	13.63	---	56.95	43.32	1000.0	9.000	N	19.8	0.602000	---	4.99	46.00	41.01	1000.0	9.000	N	19.9	0.602000	15.46	---	56.00	40.54	1000.0	9.000	N	19.9	4.838000	---	6.40	46.00	39.60	1000.0	9.000	N	19.9	4.838000	12.73	---	56.00	43.27	1000.0	9.000	N	19.9	4.934000	---	6.49	46.00	39.51	1000.0	9.000	N	19.9	4.934000	12.95	---	56.00	43.05	1000.0	9.000	N	19.9	7.598000	---	6.46	50.00	43.54	1000.0	9.000	N	19.9	7.598000	14.01	---	60.00	45.99	1000.0	9.000	N	19.9	29.902000	---	8.85	50.00	41.15	1000.0	9.000	N	21.3	29.902000	11.00	---	60.00	49.00	1000.0	9.000	N	21.3
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Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum Analyzer	R&S	FSV3044	101272	1 year	2023.03.14
8360B Series Swept Signal Generator	HP	83630B	3844A00786	1 year	2023.01.14
Loop Antenna	Schwarzbeck	FMZB1513	225	2 years	2023.01.18
TRILOG-BROADBAND ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2024.04.19
Attenuator	HUBER+SUHNER	6806.17.A	-	1 year	2023.04.01
Amplifier	SONOMA INSTRUMENT	310N	186549	1 year	2023.04.21
EMI Test Receiver	R&S	ESU26	100517	1 year	2023.08.01
AC POWER SOURCE /ANALYZER	HP	6813A	3729A00754	1 year	2023.01.14
LISN	ENV216	R & S	101787	1 year	2022.12.27
EMI TEST RECEIVER	ESR3	R & S	101783	1 year	2022.12.28
PULSE LIMITER	ESH3-Z2	R & S	101915	1 year	2022.12.27

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