

TEST REPORT

FCC Part 15C



Equipment under test SlowJec plus (Cradle)
Model name DSD-PLA-0100C
FCC ID 2ASB7PLA-0100C
Applicant OSSTEM IMPLANT Co., Ltd. Chair Business
Manufacturer OSSTEM IMPLANT Co., Ltd. Chair Business
Date of test(s) 2022.04.11 ~ 2022.04.18
Date of issue 2022.06.21

Issued to

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

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Revision history

Revision	Date of issue	Test report No.	Description
-	2022.06.21	KES-RF1-22T0067	Initial

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1. General information

Applicant OSSTEM IMPLANT Co., Ltd. Chair Business
 Applicant address 192, Haebong-ro Danwon-gu, Ansan-si, Gyeonggi-do, Korea
 Test site KES Co., Ltd.
 Test site address 3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si,
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 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: 2ASB7PLA-0100C
 Test device serial No. Production Pre-production Engineering

1.1. EUT description

Equipment under test SlowJec plus (Cradle)
 Frequency 0.234 MHz
 Inductive charging technique Magnetic Induction
 Model: DSD-PLA-0100C
 Antenna specification Internal type (Coil antenna)
 Power source AC 120 V(Adapter DC output 5 V)
 S/W Version 1.0
 H/W version 1.0

1.2. Test configuration

The OSSTEM IMPLANT Co., Ltd. Chair Business / SlowJec plus (Cradle) / DSD-PLA-0100C / FCC ID: 2ASB7PLA-0100C 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 DC output 5 V)	0.234 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
AC/DC MEDICAL Adapter	MEAN WELL	GEM12I05	-	AC 120 V
SlowJec plus (Main Body)	OSSTEM IMPLANT Co., Ltd.	DSD-PLA-0100	-	DC 3.7 V (Battery)

1.7. Measurement Uncertainty`

Test Item	Uncertainty	
Uncertainty for Conduction emission test	2.46 dB	
Uncertainty for Radiation emission test (include Fundamental emission)	Below 1 GHz	4.40 dB
	Above 1 GHz	5.94 dB

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

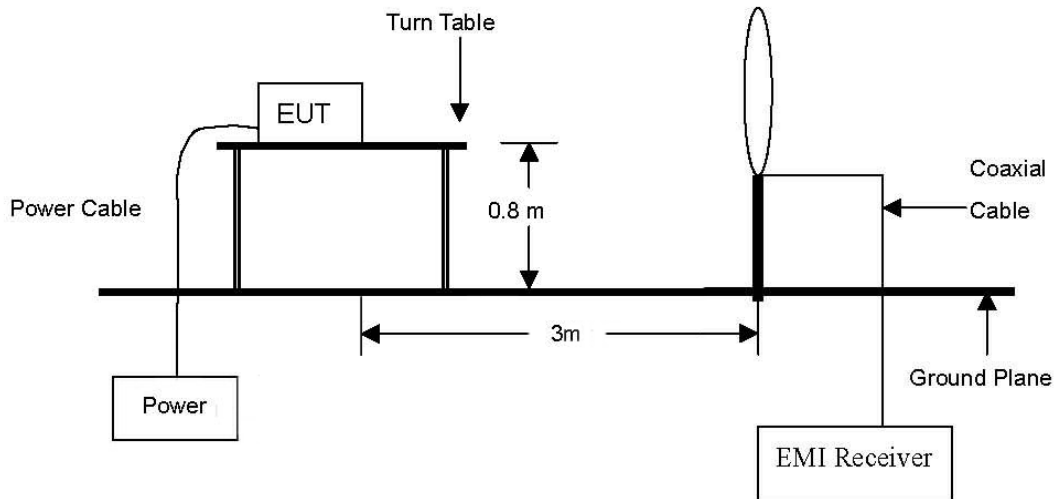
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3. Test results

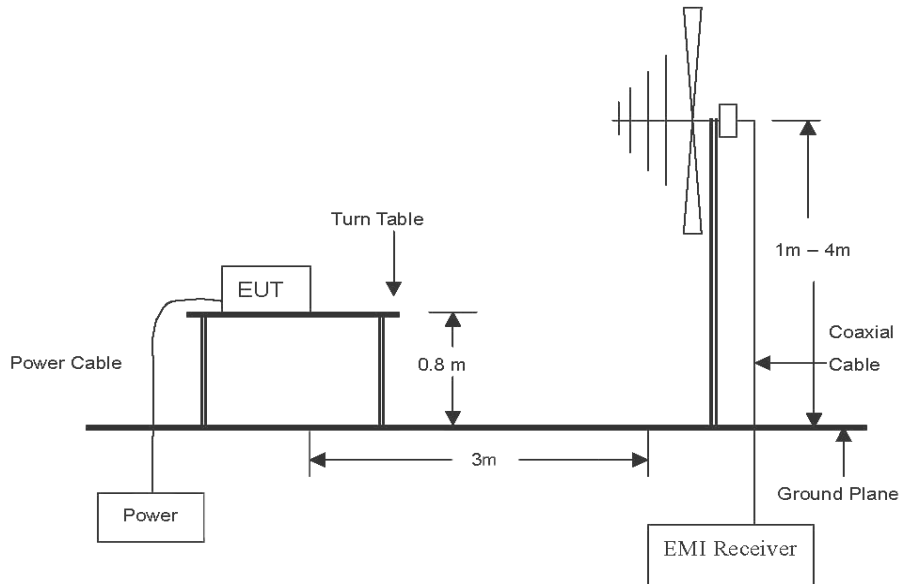
3.1. Radiated spurious emission

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 area 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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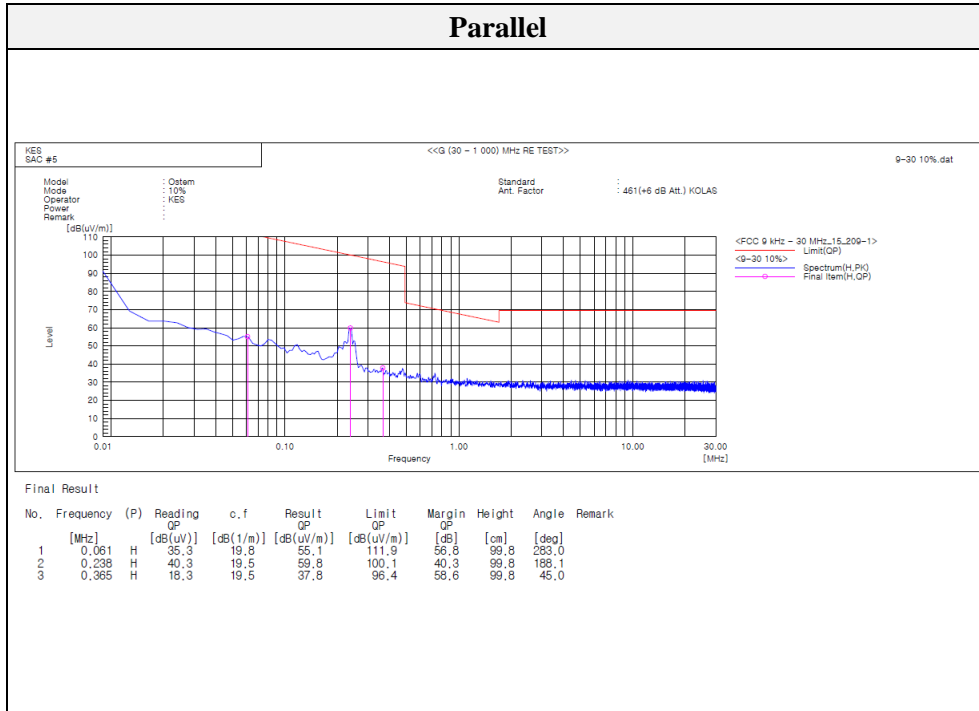
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Test results (Below 30 MHz)

Mode: 5 W // 10 % charger
 Distance of measurement: 3 meter



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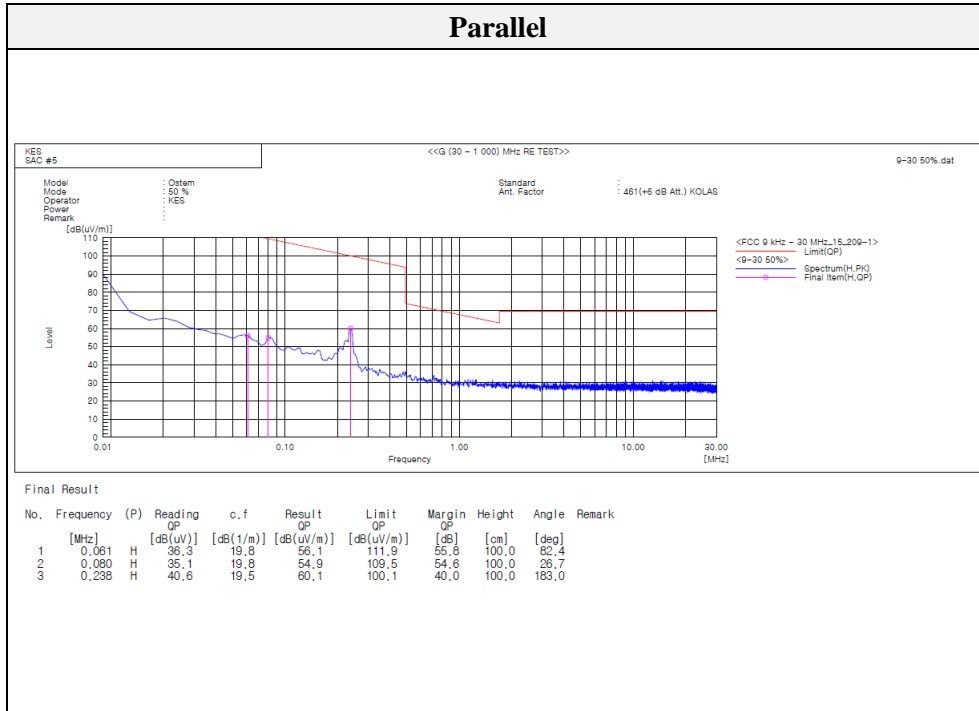


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Mode: 5 W // 50 % charger
 Distance of measurement: 3 meter



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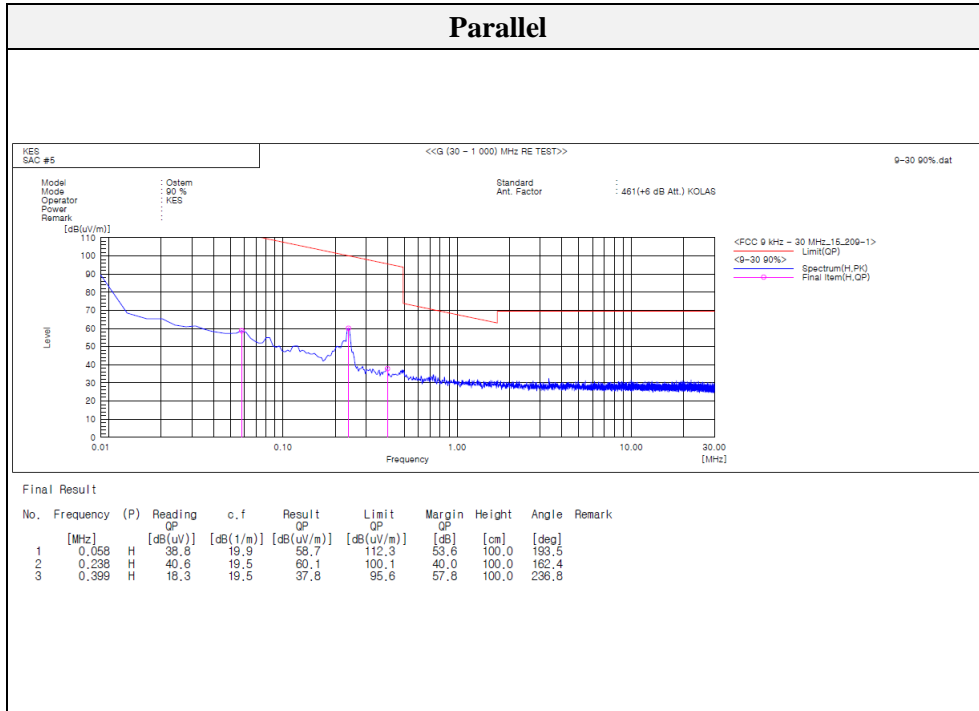
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Mode: 5 W // 90 % charge

Distance of measurement: 3 meter



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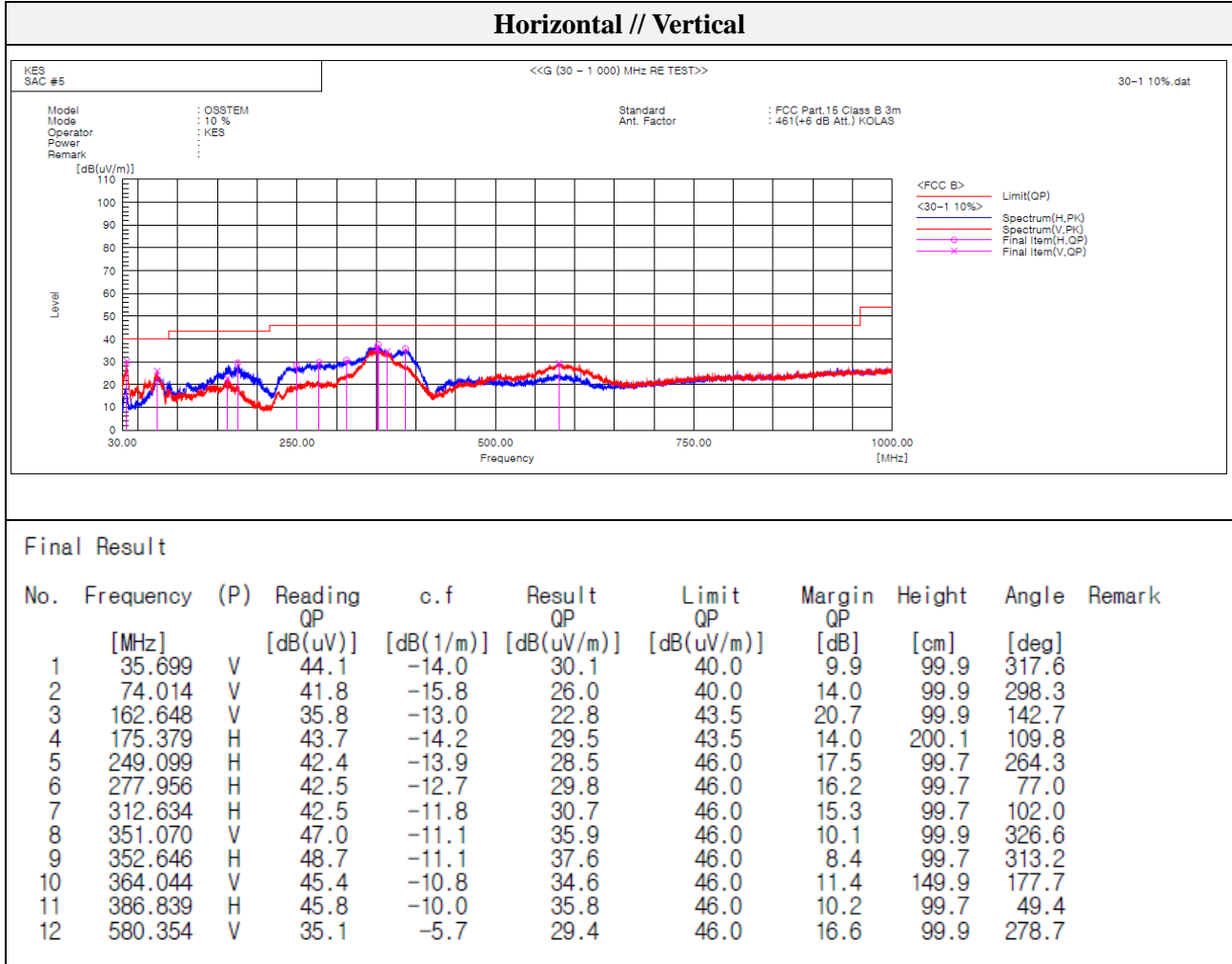
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Test results (Below 1 000 MHz)

Mode: 5 W // 10 % charge

Distance of measurement: 3 meter



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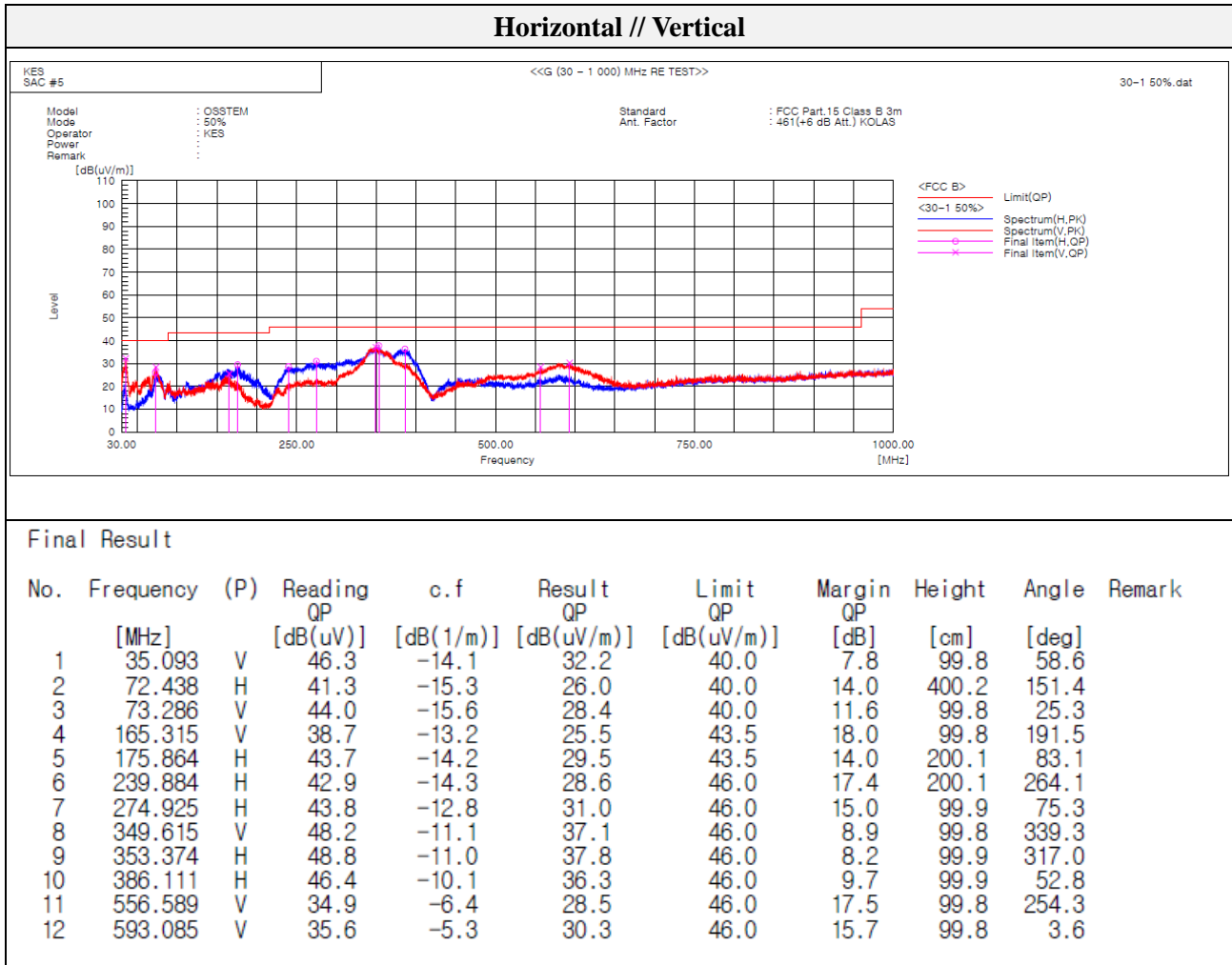


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Mode: 5 W // 50 % charge
 Distance of measurement: 3 meter



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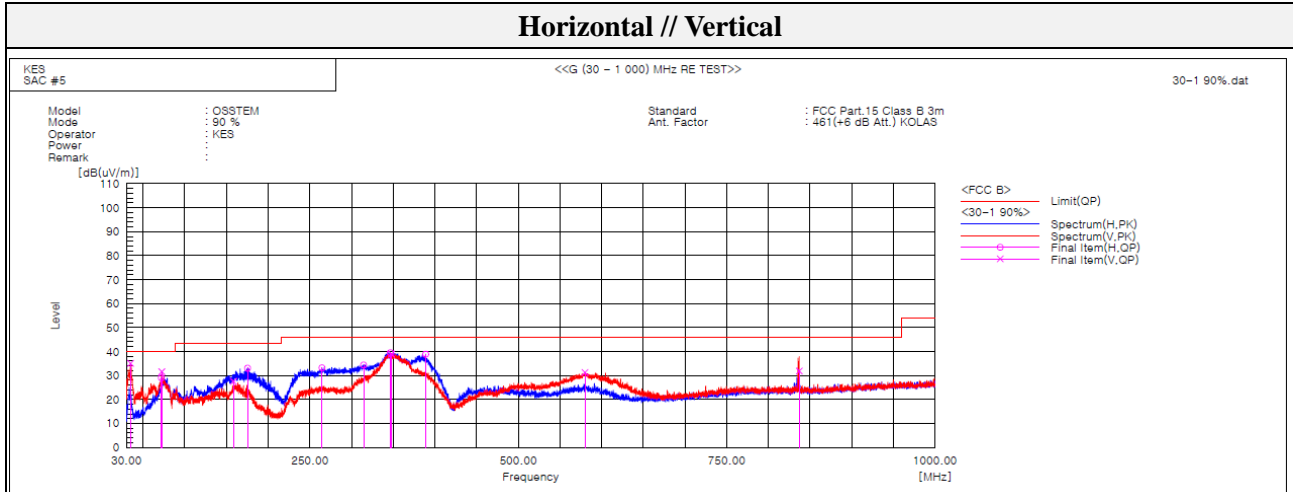


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Mode: 5 W // 90 % charge
 Distance of measurement: 3 meter



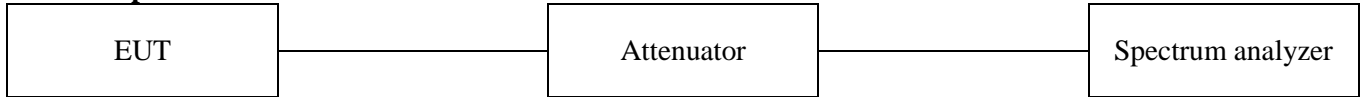
Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	34.850	V	49.2	-14.1	35.1	40.0	4.9	99.8	284.4	
2	71.953	H	44.2	-15.2	29.0	40.0	11.0	400.3	191.6	
3	72.438	V	46.9	-15.3	31.6	40.0	8.4	99.8	249.3	
4	158.525	V	40.3	-12.8	27.5	43.5	16.0	149.8	176.8	
5	175.500	H	47.3	-14.2	33.1	43.5	10.4	200.3	101.6	
6	264.619	H	46.4	-13.2	33.2	46.0	12.8	99.8	270.4	
7	314.574	H	46.2	-11.8	34.4	46.0	11.6	99.8	100.1	
8	346.705	H	50.7	-11.2	39.5	46.0	6.5	99.8	319.1	
9	347.796	V	50.2	-11.2	39.0	46.0	7.0	149.8	323.6	
10	388.900	H	48.9	-10.0	38.9	46.0	7.1	99.8	51.3	
11	579.869	V	37.0	-5.7	31.3	46.0	14.7	99.8	4.0	
12	836.919	V	33.1	-1.2	31.9	46.0	14.1	99.8	1.1	

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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.



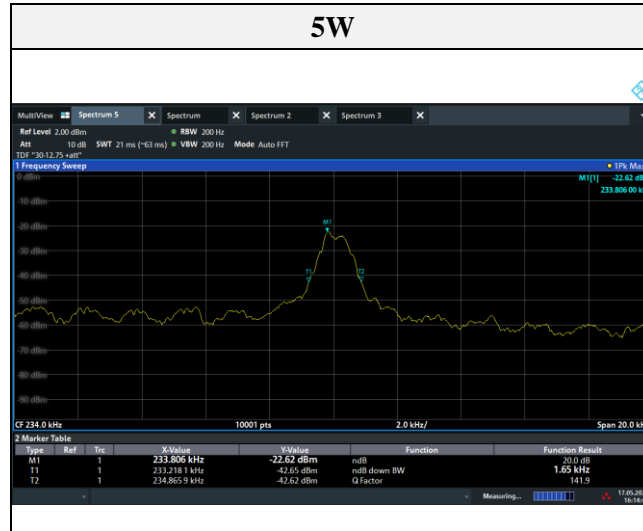
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Test results

Test Mode	Frequency(MHz)	Measured bandwidth(kHz)
5 W	0.234	1.650



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



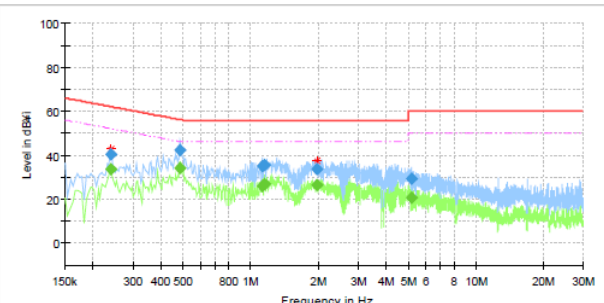
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Test results

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

Hot Line																																																																																																																														
	Final Result <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>0.486000</td><td>---</td><td>30.53</td><td>46.24</td><td>15.71</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>0.486000</td><td>42.70</td><td>---</td><td>56.24</td><td>13.54</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>0.490000</td><td>---</td><td>30.65</td><td>46.17</td><td>15.52</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>0.490000</td><td>43.51</td><td>---</td><td>56.17</td><td>12.66</td><td>1000.0</td><td>9.000</td><td>L1</td><td>19.9</td></tr> <tr><td>1.210000</td><td>---</td><td>24.54</td><td>46.00</td><td>21.46</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.3</td></tr> <tr><td>1.210000</td><td>36.29</td><td>---</td><td>56.00</td><td>19.71</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.3</td></tr> <tr><td>1.850000</td><td>---</td><td>21.47</td><td>46.00</td><td>24.53</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.5</td></tr> <tr><td>1.850000</td><td>34.70</td><td>---</td><td>56.00</td><td>21.30</td><td>1000.0</td><td>9.000</td><td>L1</td><td>20.5</td></tr> <tr><td>29.174000</td><td>---</td><td>18.79</td><td>50.00</td><td>31.21</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.2</td></tr> <tr><td>29.174000</td><td>29.70</td><td>---</td><td>60.00</td><td>30.30</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.2</td></tr> <tr><td>29.226000</td><td>---</td><td>14.94</td><td>50.00</td><td>35.06</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.2</td></tr> <tr><td>29.226000</td><td>26.44</td><td>---</td><td>60.00</td><td>33.56</td><td>1000.0</td><td>9.000</td><td>L1</td><td>21.2</td></tr> </tbody> </table>	Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	0.486000	---	30.53	46.24	15.71	1000.0	9.000	L1	19.9	0.486000	42.70	---	56.24	13.54	1000.0	9.000	L1	19.9	0.490000	---	30.65	46.17	15.52	1000.0	9.000	L1	19.9	0.490000	43.51	---	56.17	12.66	1000.0	9.000	L1	19.9	1.210000	---	24.54	46.00	21.46	1000.0	9.000	L1	20.3	1.210000	36.29	---	56.00	19.71	1000.0	9.000	L1	20.3	1.850000	---	21.47	46.00	24.53	1000.0	9.000	L1	20.5	1.850000	34.70	---	56.00	21.30	1000.0	9.000	L1	20.5	29.174000	---	18.79	50.00	31.21	1000.0	9.000	L1	21.2	29.174000	29.70	---	60.00	30.30	1000.0	9.000	L1	21.2	29.226000	---	14.94	50.00	35.06	1000.0	9.000	L1	21.2	29.226000	26.44	---	60.00	33.56	1000.0	9.000	L1	21.2								
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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
BILOG ANTENNA	Schwarzbeck	VULB 9168	9168-461	2 years	2024.04.27
Attenuator	HUBER+SUHNER	6806.17.A	-	1 year	2023.04.01
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2022.06.07
					2023.06.02
EMI Test Receiver	R&S	ESU26	100552	1 year	2023.03.31
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

Peripheral device

Device	Manufacturer	Model No.	S/N	Note
-	-	-	-	-

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