

Radiated Emission

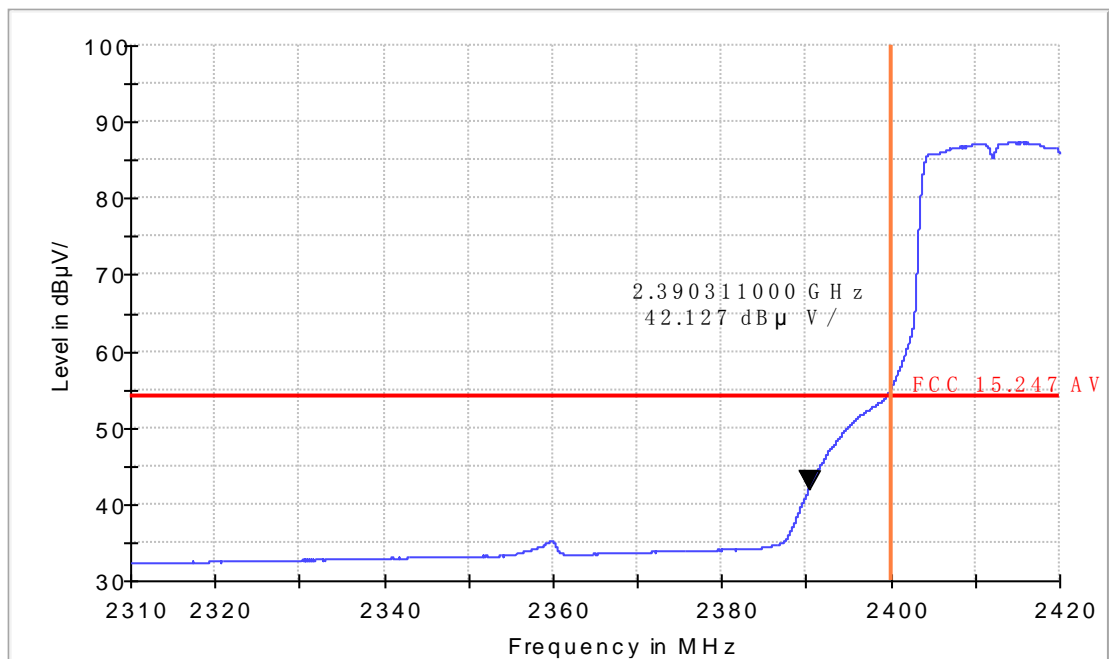
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11g CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

Copy of FCC Electric Field Strength 2.4GHz Bandedge-AV



Radiated Emission

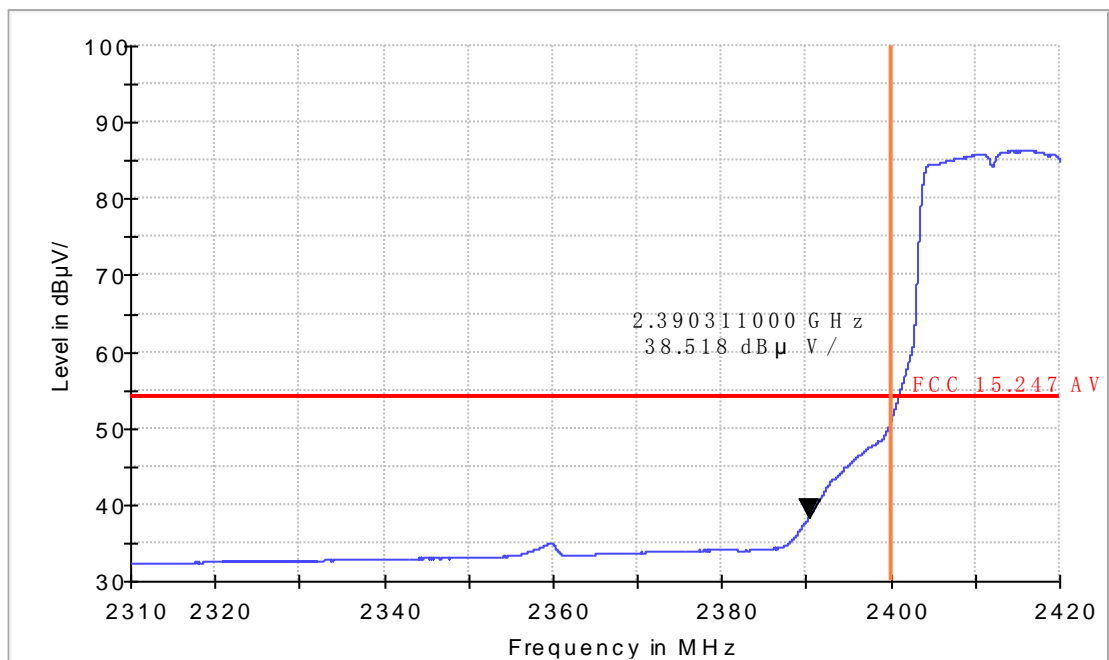
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11a CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

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Band edge

11n-HT20

CH1

Radiated Emission

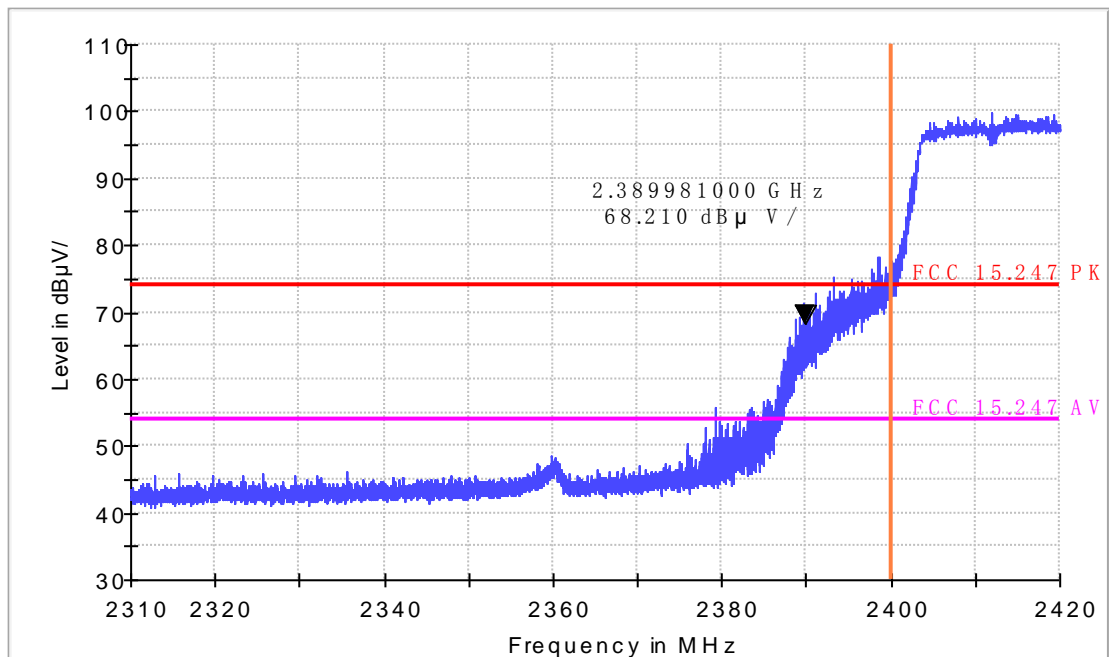
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

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Radiated Emission

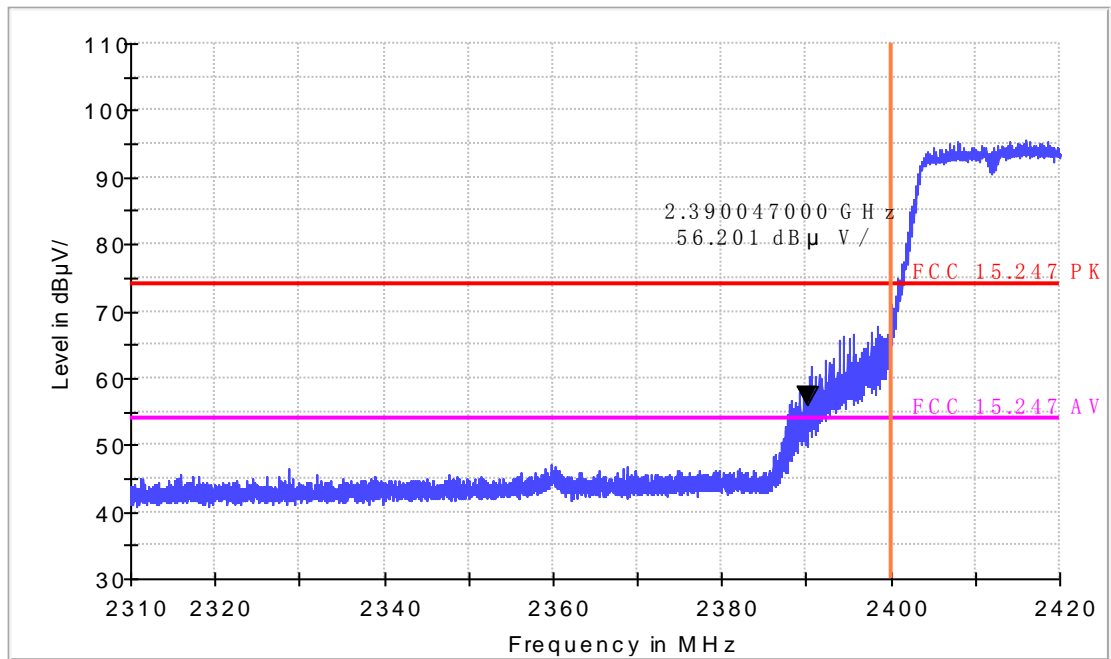
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

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Radiated Emission

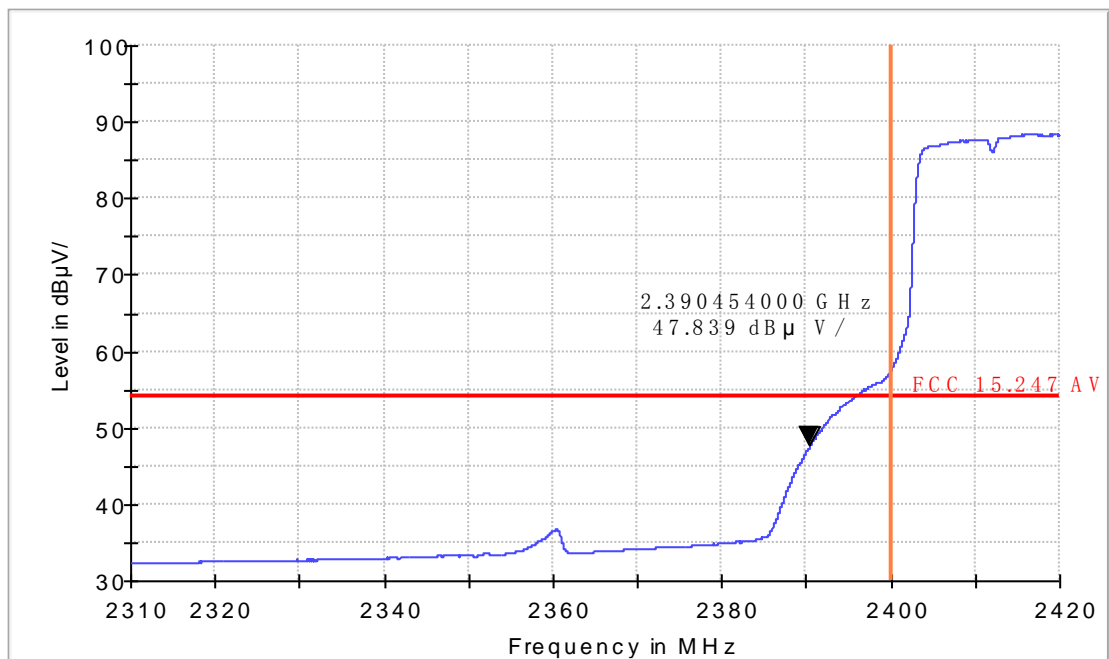
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

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Radiated Emission

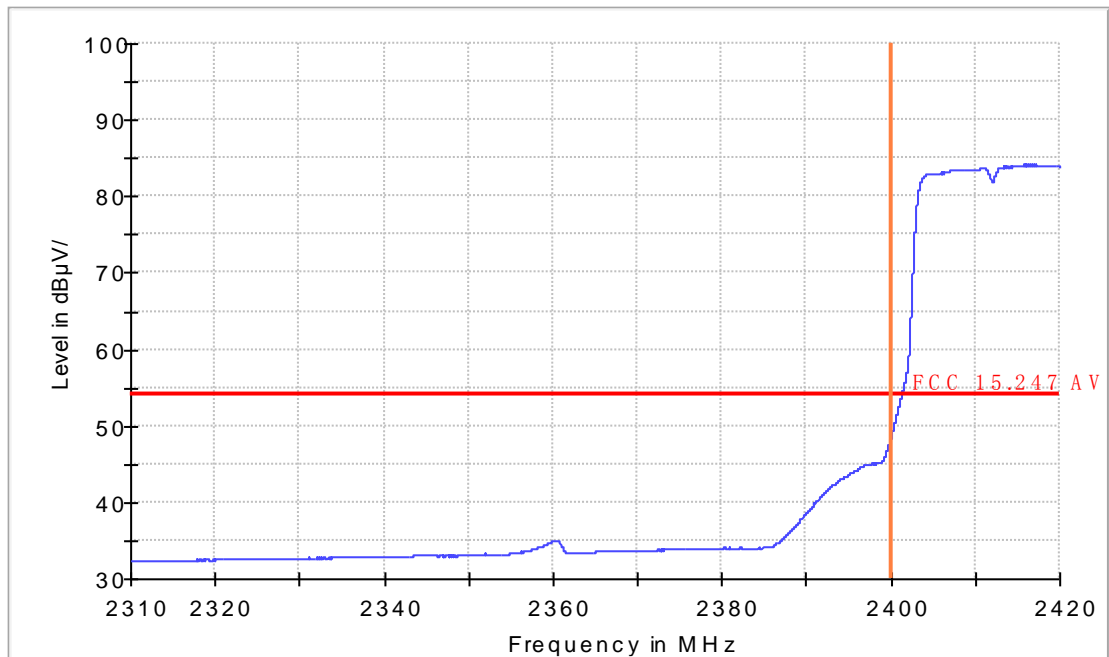
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH1
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

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Band edge

11b

CH11

Radiated Emission

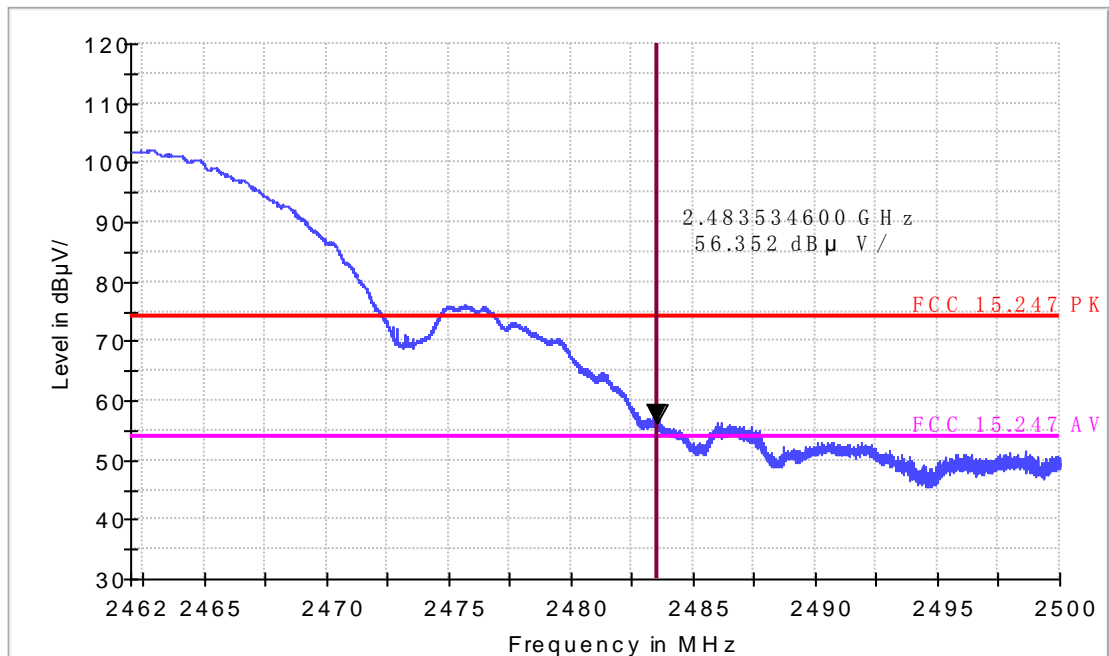
EUT Information

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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

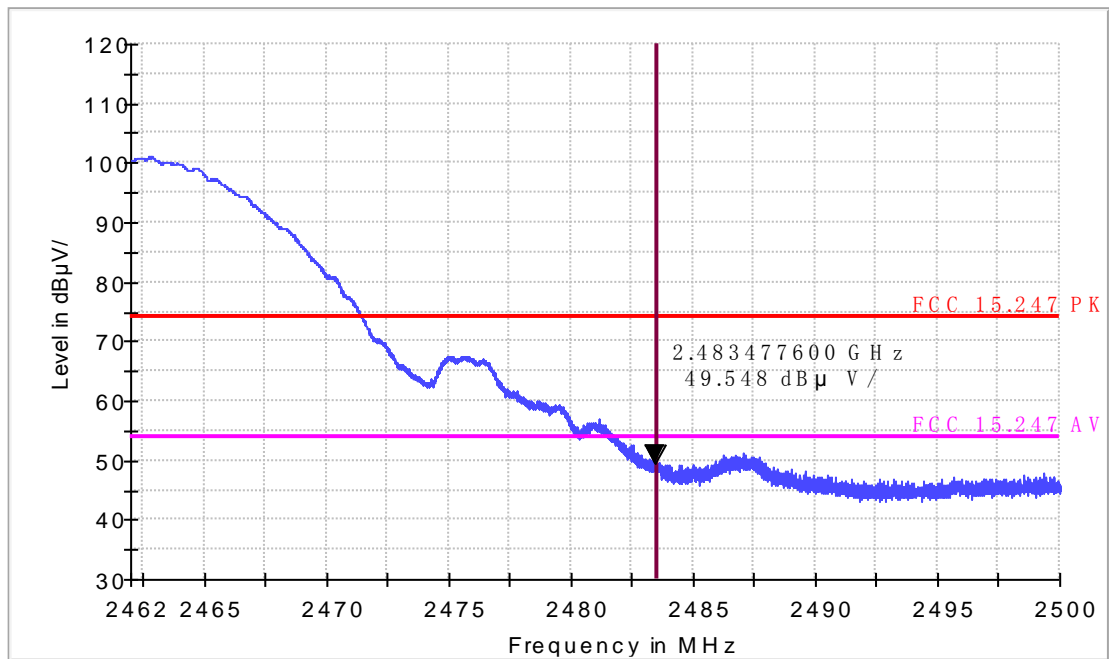
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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

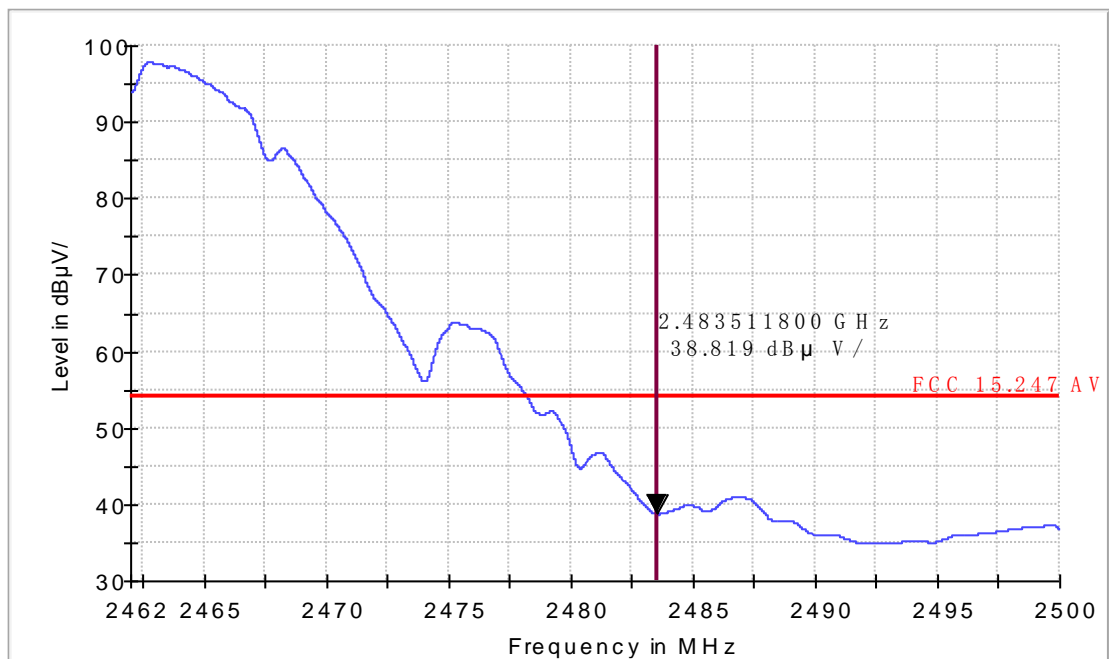
EUT Information

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Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

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Radiated Emission

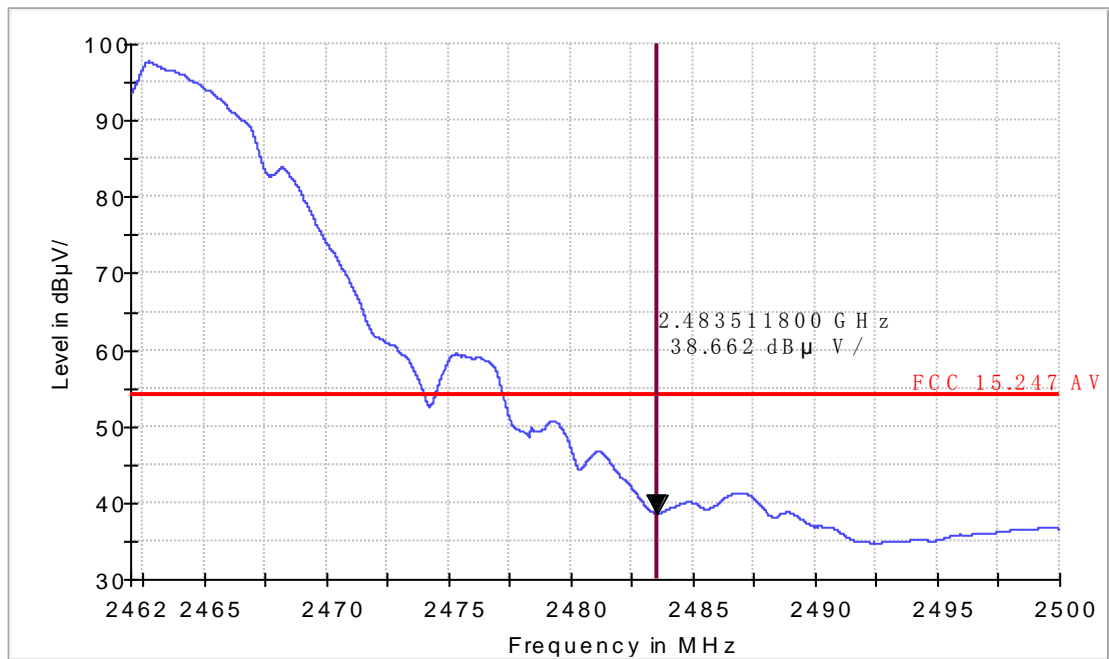
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11b CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

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Band edge

11g

CH11

Radiated Emission

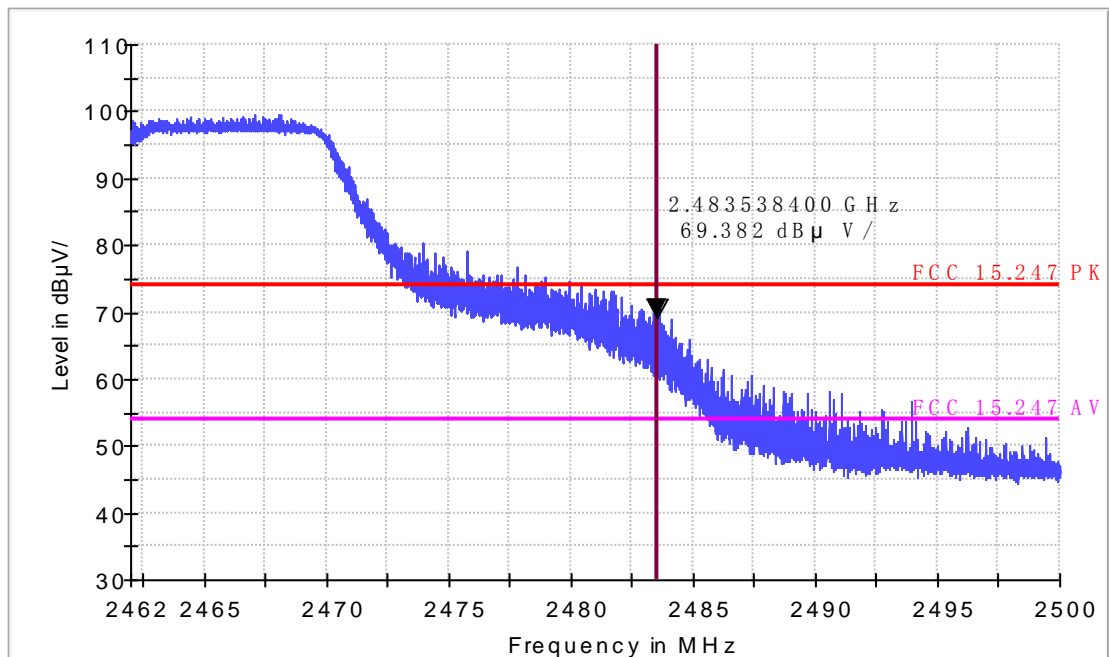
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

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Radiated Emission

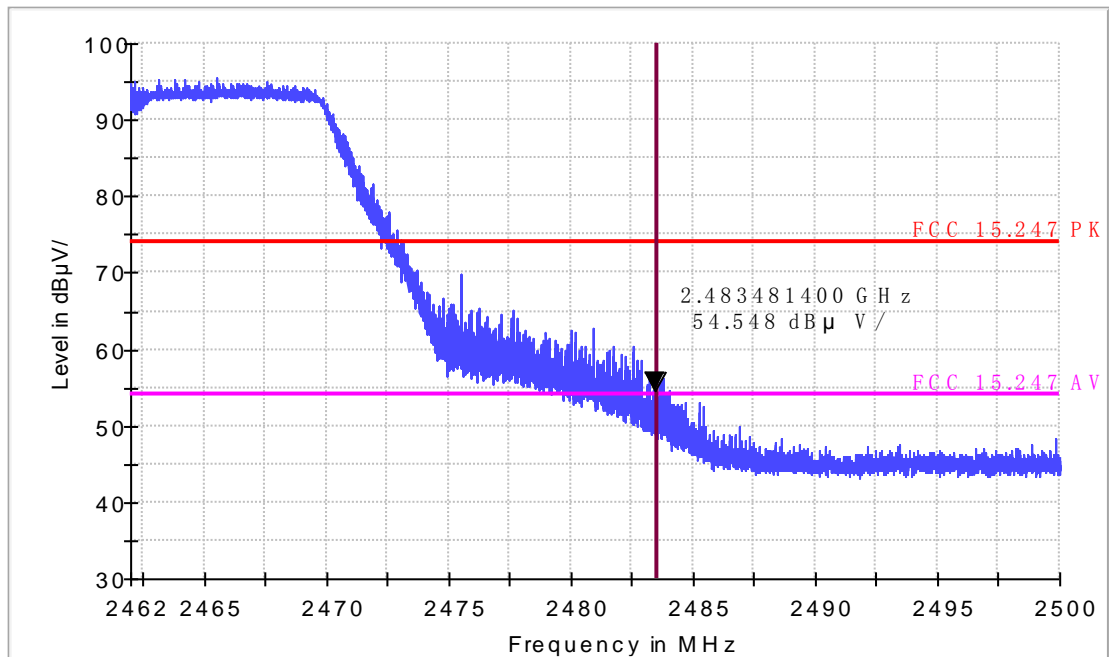
EUT Information

EUT Model Name: i6200S
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Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
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Radiated Emission

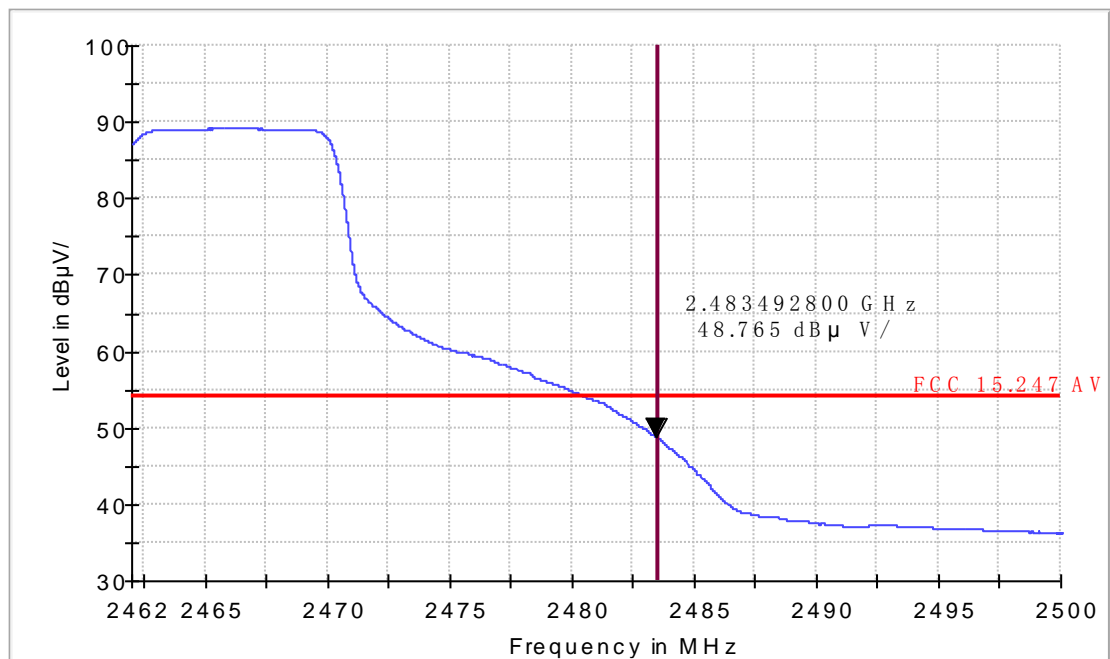
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
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Radiated Emission

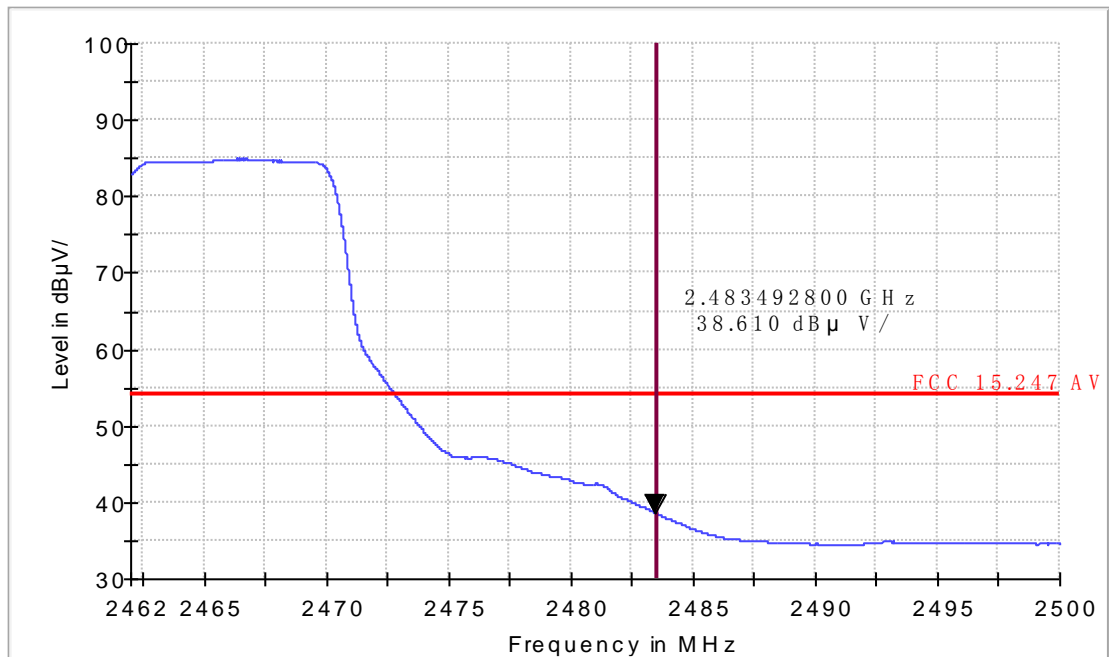
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11g CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
Comment:

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Band edge

11n-HT20

CH11

Radiated Emission

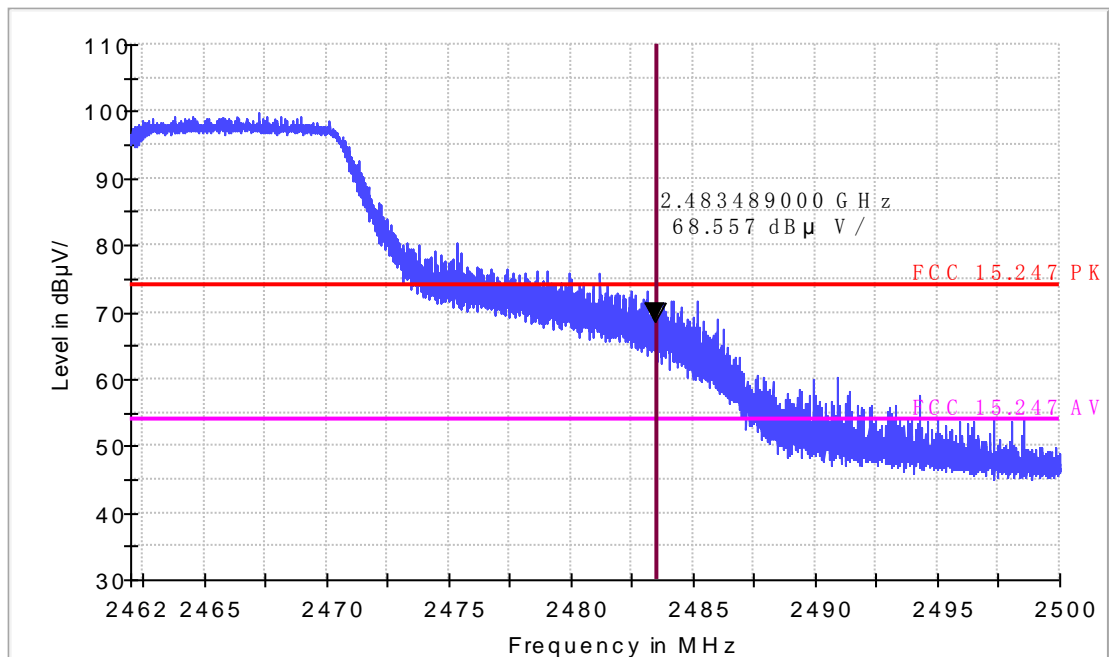
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Radiated Emission

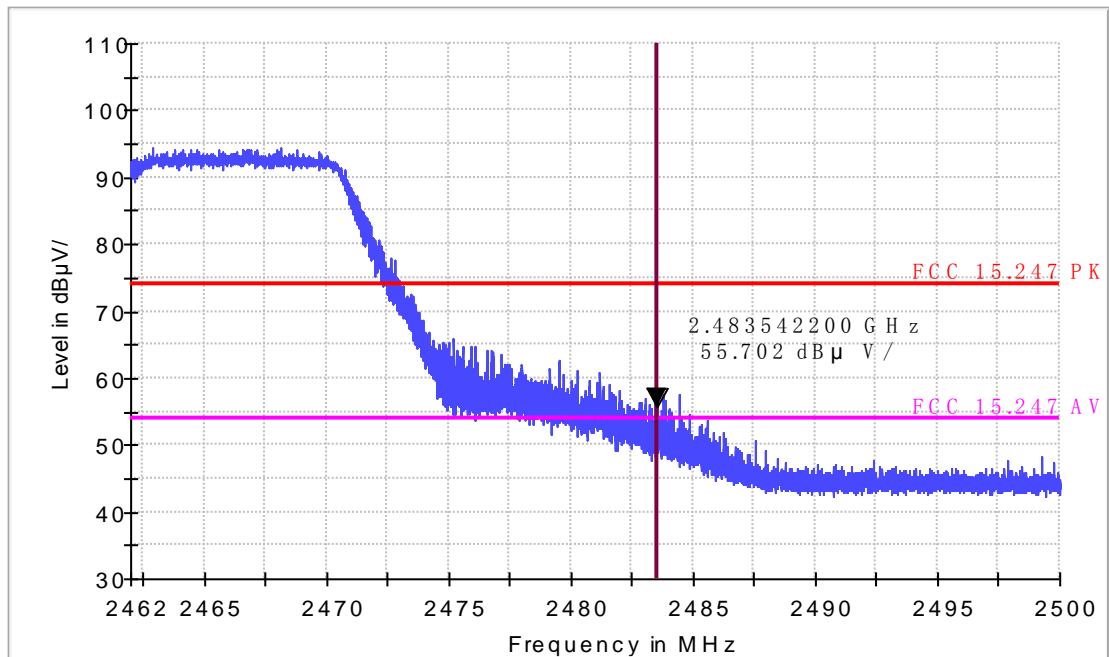
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
Operator Name:
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Radiated Emission

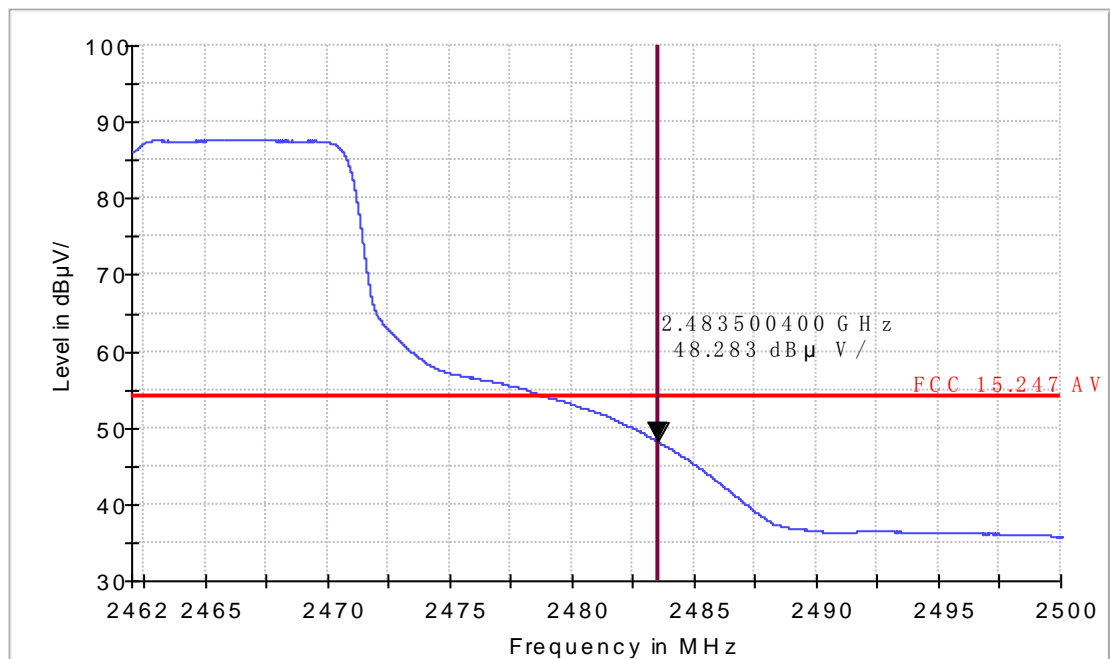
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Horizontal
Operator Name:
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Radiated Emission

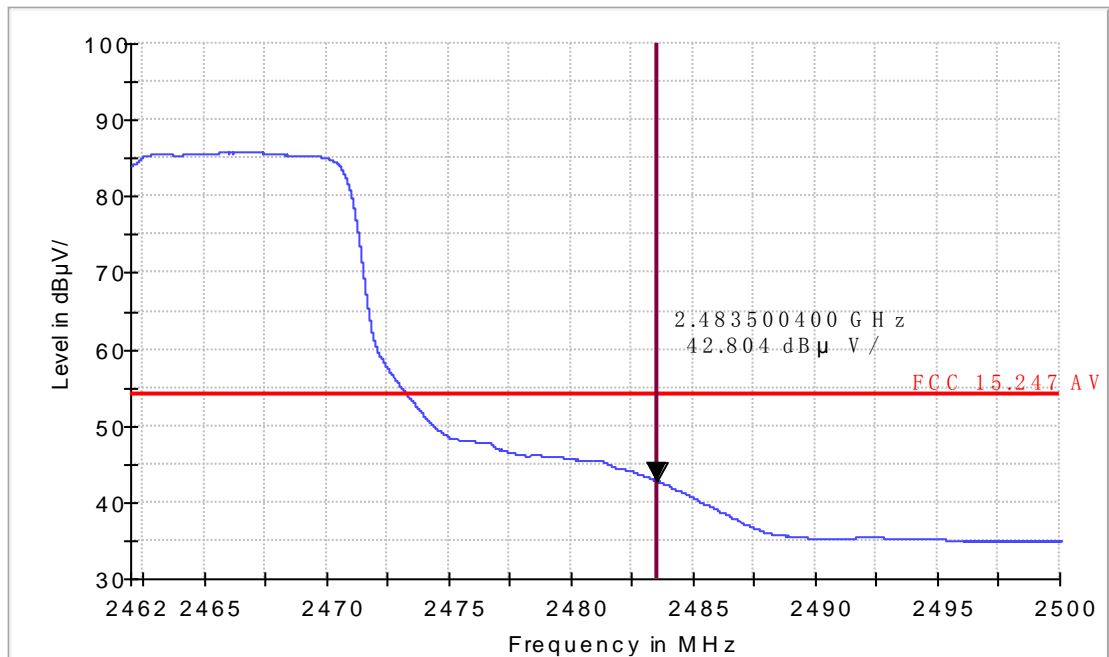
EUT Information

EUT Model Name: i6200S
Operation mode: Wifi 11n20 CH11
Test Voltage:
Comment:

Common Information

Test Site: SMQ EMC Lab.
Environment
Antenna Polarization: Vertical
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10. CONDUCTED EMISSION TEST FOR AC POWER PORT MEASUREMENT

10.1. Test Standard and Limit

10.1.1. Test Standard

FCC Part 15 15.207

10.1.2. Test Limit

Table 17 Conducted Disturbance Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

* Decreasing linearly with logarithm of the frequency

* The lower limit shall apply at the transition frequency.

10.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

10.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

10.4. Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 18 Conducted Disturbance Test Data (Adapter Model:ZAU-A050260A-04)

Model No.: i6200S								
Test mode: Charging and transmitter								
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
Line	0.178	9.7	43.3	53.0	64.6	32.8	42.5	54.6
	0.242	9.7	40.6	50.3	62.0	32.0	41.7	52.0
	0.542	9.8	29.9	39.7	56.0	25.4	35.2	46.0
	0.682	9.8	35.7	45.5	56.0	29.9	39.7	46.0
	0.746	9.8	35.7	45.5	56.0	30.2	40.0	46.0
	21.696	10.2	36.0	46.2	60.0	28.8	39.0	50.0
Neutral	0.1500	9.7	39.5	49.2	66.0	24.5	34.2	56.0
	0.198	9.7	37.6	47.3	63.7	24.1	33.8	53.7
	0.230	9.7	36.1	45.8	62.4	24.9	34.6	52.4
	0.598	9.8	34.0	43.8	56.0	28.3	38.1	46.0
	0.714	9.8	40.3	50.1	56.0	35.5	45.3	46.0
	1.062	9.8	29.4	39.2	56.0	24.6	34.4	46.0

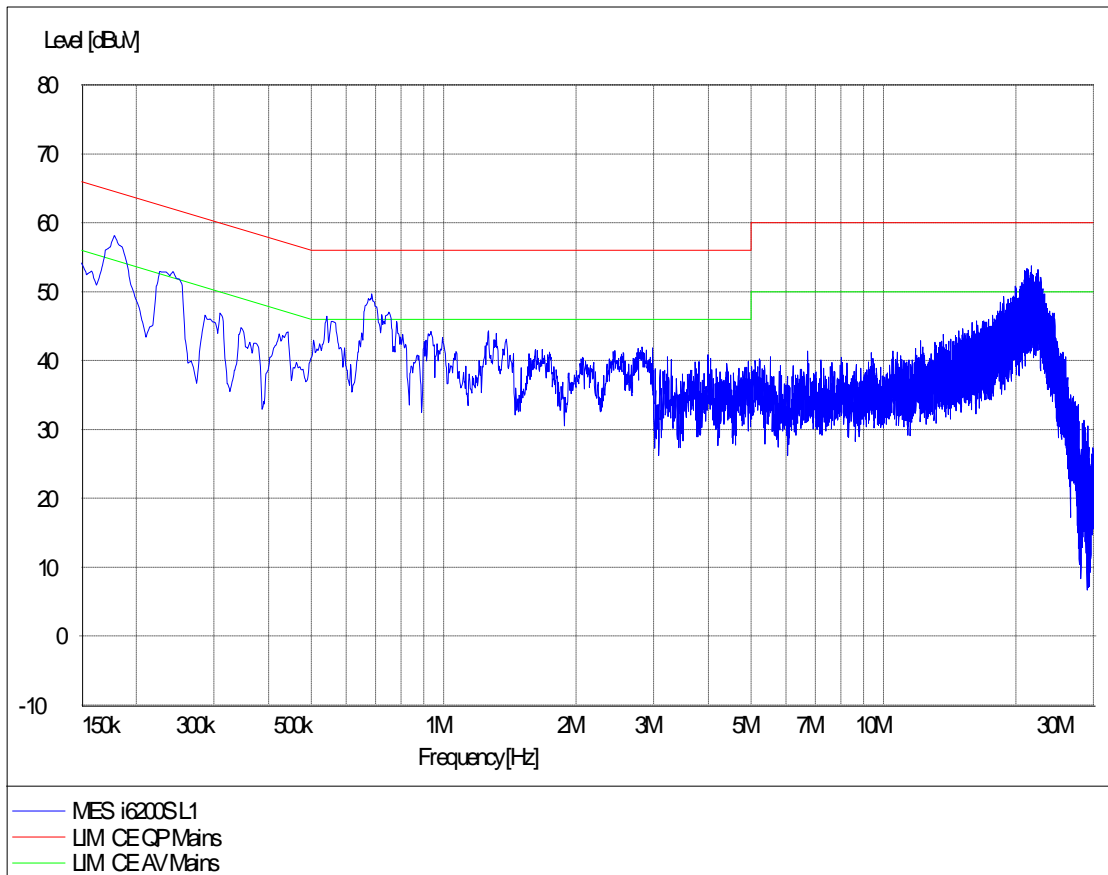
- REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

Table 19 Conducted Disturbance Test Data (Adapter Model:ZAU-A050150A-02)

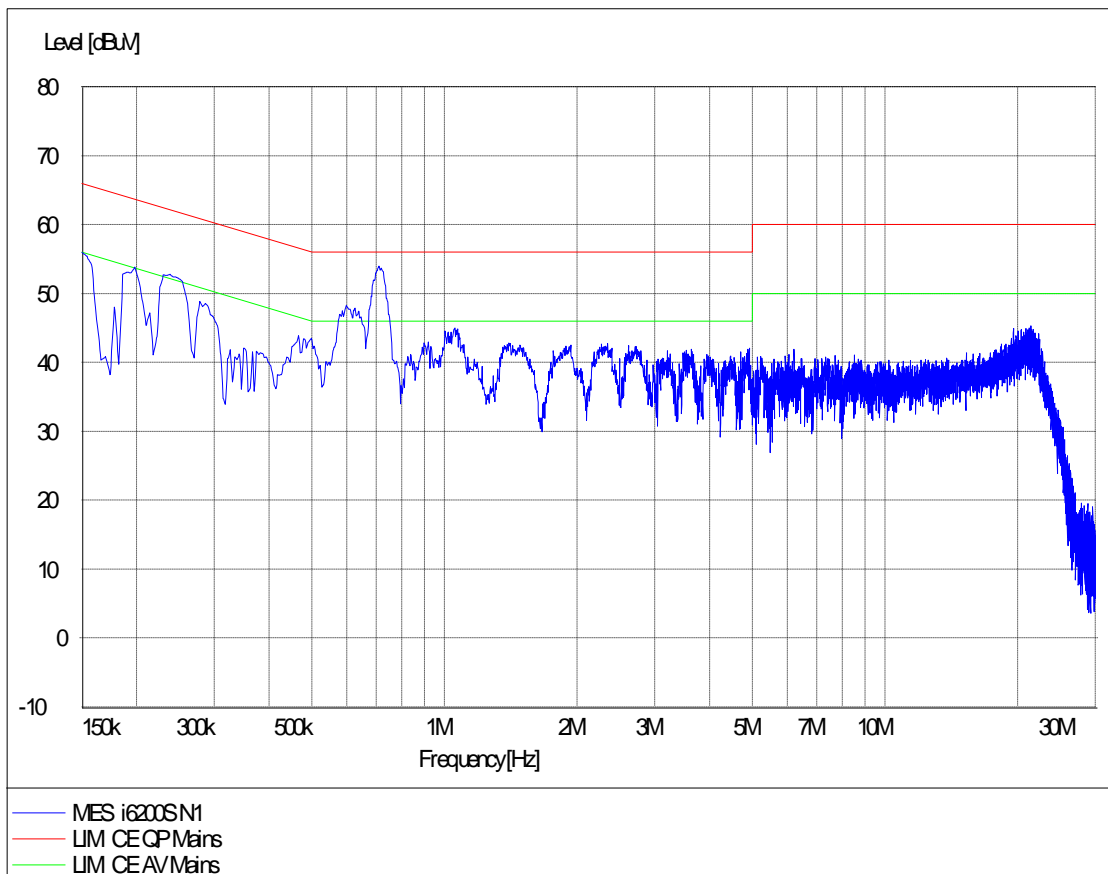
Model No.: i6200S								
Test mode: Charging and transmitter								
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
Line	0.390	9.7	46.5	56.2	58.1	38.4	48.1	48.1
	0.470	9.7	42.4	52.1	56.5	35.4	45.1	46.5
	0.578	9.8	40.5	50.3	56.0	29.6	39.4	46.0
	0.686	9.8	39.3	49.1	56.0	28.7	38.5	46.0
	0.894	9.8	37.6	47.4	56.0	26.3	36.1	46.0
	1.282	9.8	35.7	45.5	56.0	28.9	38.7	46.0
Neutral	0.398	9.7	41.1	50.8	57.9	33.4	43.1	47.9
	0.466	9.7	40.6	50.3	56.6	33.1	42.8	46.6
	0.478	9.7	38.2	47.9	56.4	29.8	39.5	46.4
	0.670	9.8	38.0	47.8	56.0	31.5	41.3	46.0
	0.954	9.8	35.2	45.0	56.0	28.2	38.0	46.0
	1.470	9.8	34.2	44.0	56.0	26.1	35.9	46.0

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

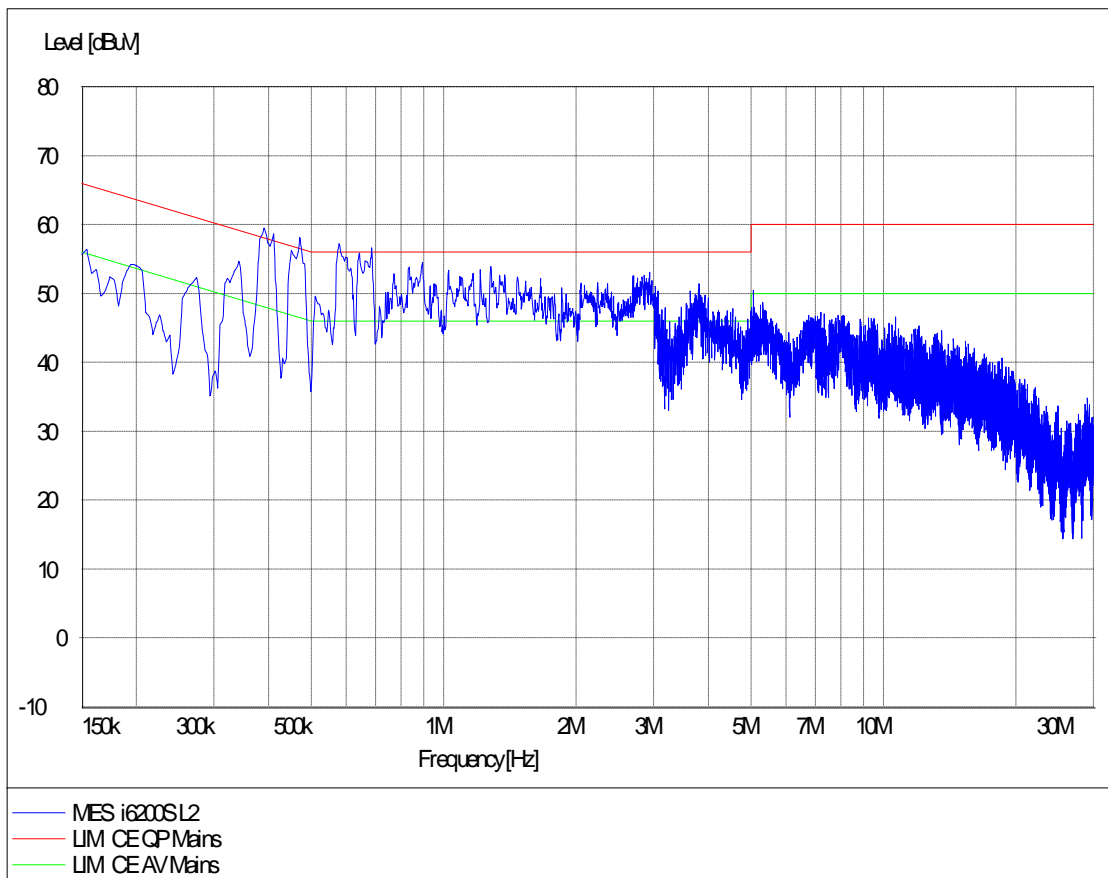
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Operating Condition: Charging and transmitter
Adapter Model: ZAU-A050260A-04
Test Specification: L
Comment: AC 120V/60Hz



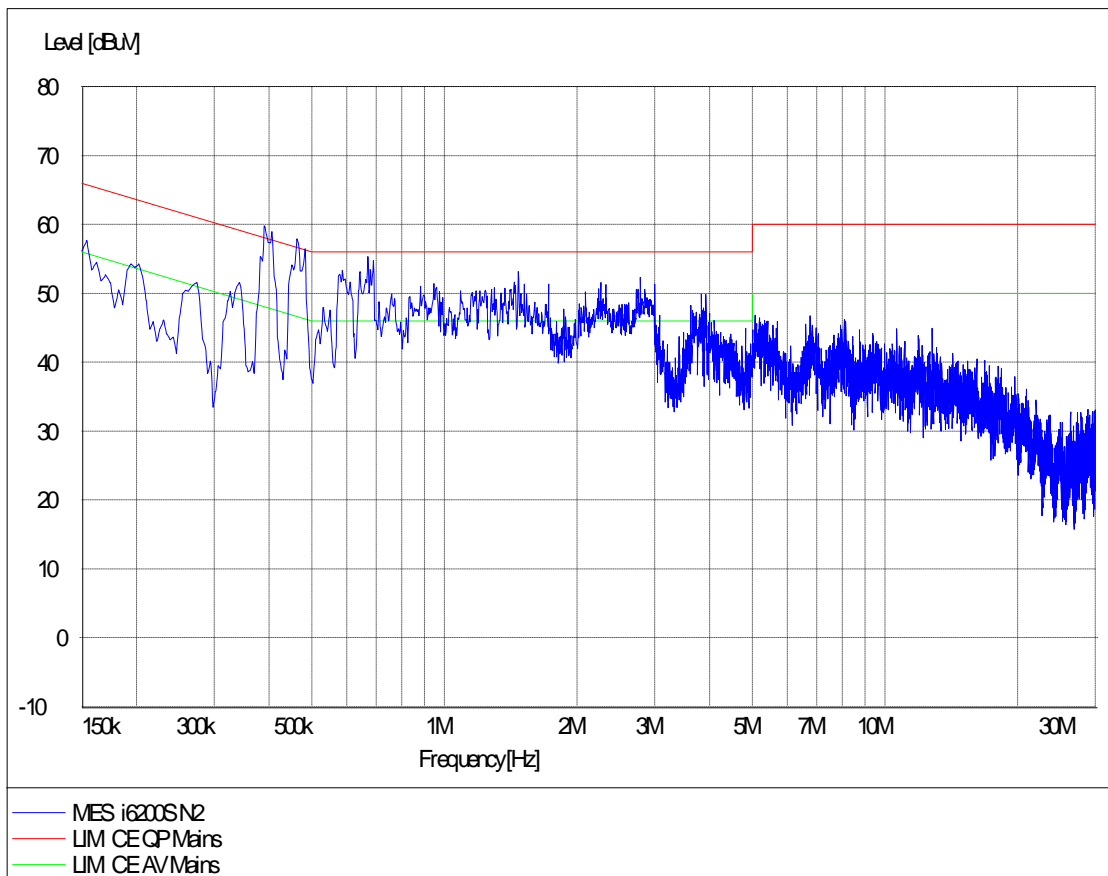
EUT: i6200S
Operating Condition: Charging and transmitter
Adapter Model: ZAU-A050260A-04
Test Specification: N
Comment: AC 120V/60Hz



EUT: i6200S
Operating Condition: Charging and transmitter
Adapter Model: ZAU-A050150A-02
Test Specification: L
Comment: AC 120V/60Hz



EUT: i6200S
Operating Condition: Charging and transmitter
Adapter Model: ZAU-A050150A-02
Test Specification: N
Comment: AC 120V/60Hz



11. ANTENNA REQUIREMENTS

11.1. Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

11.2. Antenna Connector

Antenna Connector is on the PCB within enclosure and not accessible to user.

11.3. Antenna Gain

The antenna gain of EUT is less than 6 dBi.