

IKEA OF SWEDEN AB

TEST REPORT

SCOPE OF WORK

EMC TESTING–E2038 VARMFRONT

REPORT NUMBER

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TEST REPORT

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Intertek Report No: 220614245GZU-001
FCC ID: FHO-E2038

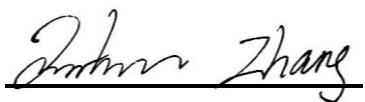
Test standards

CFR 47, FCC Part 15, Subpart B:2020

Sample Description

Product : Power bank
Model No. : E2038 VARMFRONT
Electrical Rating : Input: 5VDC 3A Max, 9VDC 2A Max, 12VDC 1.5A Max (TYPE-C)
Output: 5VDC 3A Max, 9VDC 2A Max, 12VDC 1.5A Max (TYPE-C)
5VDC 3A Max, 9VDC 2A Max, 12VDC 1.5A Max (USB A1)
5VDC 3A Max, 9VDC 2A Max, 12VDC 1.5A Max (USB A2)
Total Output: 5VDC 3A Max
Battery Capacity: 3.6V, 10400mAh, 37.44Wh
Serial No. : Not Labeled
Date Received : 14 June 2022
Date Test : 14 June 2022-29 June 2022
Conducted

Prepared and Checked By



Jackson Zhang

Sr. Project Engineer

Approved By:



Sky Zhu

Team Leader

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD,
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TEST REPORT

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TEST REPORT

1. TEST RESULTS SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
Conducted disturbance voltage at mains ports	CFR 47, FCC Part 15, Subpart B	Pass
Radiated emission (30 MHz–1 GHz)	CFR 47, FCC Part 15, Subpart B	Pass
Radiated emission (Above 1 GHz)	CFR 47, FCC Part 15, Subpart B	N/A
Remark: Reference publication is used for methods of measurement: ANSI C63.4:2014		

Remark:

1. The symbol “N/A” in above table means Not Applicable.
2. When determining the test results, measurement uncertainty of tests has been considered.

TEST REPORT

2. EMC RESULTS CONCLUSION

RE: EMC Testing Pursuant to FCC part 15 performed on the Power bank Model: E2038 VARMFRONT.

We tested the Power bank Model: E2038 VARMFRONT, to determine if it was in compliance with the relevant standards as marked on the Test Results Summary. We found that the unit met the requirement of FCC part 15 standard when tested as received. The worst case's test data was presented in this test report.

Charging and discharging mode only input 5V and output 5V.

Operation Mode:

Mode 1: Charging input 5V

Mode 2: Charging input 9V

Mode 3: Charging input 12V

Mode 4: discharging output 5V

Mode 5: discharging output 9V

Mode 6: discharging output 12V

Mode 7: Charging and discharging input 5V and output 5V.

The production units are required to conform to the initial sample as received when the units are placed on the market.

TEST REPORT

3. LABORATORY MEASUREMENTS

Configuration Information

Support Equipment:

Equipment	Model No.	Rating	Supplier
Adapter (HUAWEI)	HW-200325CP0	Input 100-240~, 50/60Hz, 1.8A	Intertek
Cement resistance	-	1.7 Ω , 4.5 Ω , 8 Ω	Intertek

Rated Voltage and frequency under test: 120 V~, 60 Hz
 Condition of Environment: Temperature: 22~28°C
 Relative Humidity:35~60%
 Atmosphere Pressure:86~106kPa

Notes:

1. The EMI measurements had been made in the operating mode produced the largest emission in the frequency band being investigated consistent with normal applications. An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. Test Facility accreditation:

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3. Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China

Except Radiated Emissions was performed at:

Room 102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

TEST REPORT

4. Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission (9 kHz-150 kHz)	2.54 dB
2	Conducted Emission (150 kHz-30 MHz)	2.51 dB
3	Disturbance Power (30 MHz-300 MHz)	3.13 dB
4	Radiated Emission (9 kHz-30 MHz)	4.15 dB
5	Radiated Emission (30 MHz-1 GHz)	4.62 dB
6	Radiated Emission (1 GHz-6 GHz)	4.67 dB
7	Radiated Emission (6 GHz-18 GHz)	4.76 dB

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with CISPR16-4-2:2011+A1:2014+A2:2018.

The measurement uncertainty is given with a confidence of 95%, k=2.

Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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4. EQUIPMENT USED DURING TEST

Conducted Disturbance-Mains Terminal (2)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM031-04	EMI receiver	ESR3	R&S	1Y
EM006-06	LISN	ENV216	R&S	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	1Y
EM031-04-01	EMC32 software (CE)	V10.01.00	R&S	N/A

Radiated Disturbance (30 MHz-1 GHz)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m3	ETS-LINDGREN	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	1Y
EM033-01	TRILOG Super Broadband test Antenna (30 MHz-3 GHz)	VULB 9163	SCHWARZBECK	1Y
EM031-02-01	Coaxial cable	/	R&S	1Y
EM036-01	Common-mode absorbing clamp	CMAD 20B	TESEQ	1Y
SA047-118	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A

TEST REPORT

Detail of the equipment calibration due date:

Equipment No.	Cal. Due date (DD-MM-YYYY)
Conducted Disturbance-Mains Terminal (1)	
EM080-05	08/06/2023
EM006-05	05/06/2023
SA047-112	23/10/2023
EM004-04	06/01/2023
Conducted Disturbance-Mains Terminal (2)	
EM031-04	06/01/2023
EM006-06	05/09/2023
SA047-111	23/10/2023
EM004-03	06/01/2023
EM031-04-01	N/A
Conducted Disturbance-Load and Control Terminal (1)	
EM080-05	08/06/2023
EM080-05-01	05/09/2023
SA047-112	23/10/2023
EM004-04	06/01/2023
Conducted Disturbance-Load and Control Terminal (2)	
EM080-05	08/06/2023
EM005-06-01	05/09/2023
SA047-112	23/10/2023
EM004-04	06/01/2023
Conducted Disturbance-Telecom Terminal	
EM080-05	08/06/2023
EM011-05	08/04/2023
EM011-06	08/04/2023
EM006-06	05/09/2023
SA047-112	23/10/2023
EM004-04	6/01/2023
Conducted Disturbance-Antenna Terminal	
EM031-04	06/01/2023
EM084-02	17/07/2023
EM041-01	23/01/2023
EM041-02	06/01/2023
SA047-111	23/10/2023
EM004-03	06/01/2023

Equipment No.	Cal. Due date (DD-MM-YYYY)
Radiated Disturbance (CDN Method)	
EM080-05	08/06/2023
EM003-02	15/11/2023
EM003-03	15/11/2023
EM046-04-03	06/03/2023
EM032-02-01	14/07/2023
EM032-02-02	14/07/2023
SA047-112	23/10/2023
EM004-04	06/01/2023
Radiated electromagnetic disturbances (9 kHz-30 MHz)	
EM031-04	06/01/2023
EM061-04	06/03/2023
SA047-111	23/10/2023
EM004-03	06/01/2023
Radiated Disturbance (9 kHz-30 MHz)	
EM030-04	07/04/2023
EM031-02	15/11/2023
EM011-04	27/06/2023
EM031-02-01	08/04/2023
SA047-118	15/07/2023
EM045-01-01	N/A
Radiated Disturbance (30 MHz-1 GHz)	
EM030-04	07/04/2023
EM031-02	15/11/2023
EM033-01	25/10/2023
EM031-02-01	08/04/2023
EM036-01	17/07/2023
SA047-118	15/07/2023
EM045-01-01	N/A
Radiated Disturbance (1-18 GHz)	
EM030-04	07/04/2023
EM031-02	15/11/2023
EM031-03	15/11/2023
EM033-02	26/06/2023
EM033-02-02	08/04/2023
EM022-03	06/05/2023
SA047-118	15/07/2023
EM045-01-01	N/A

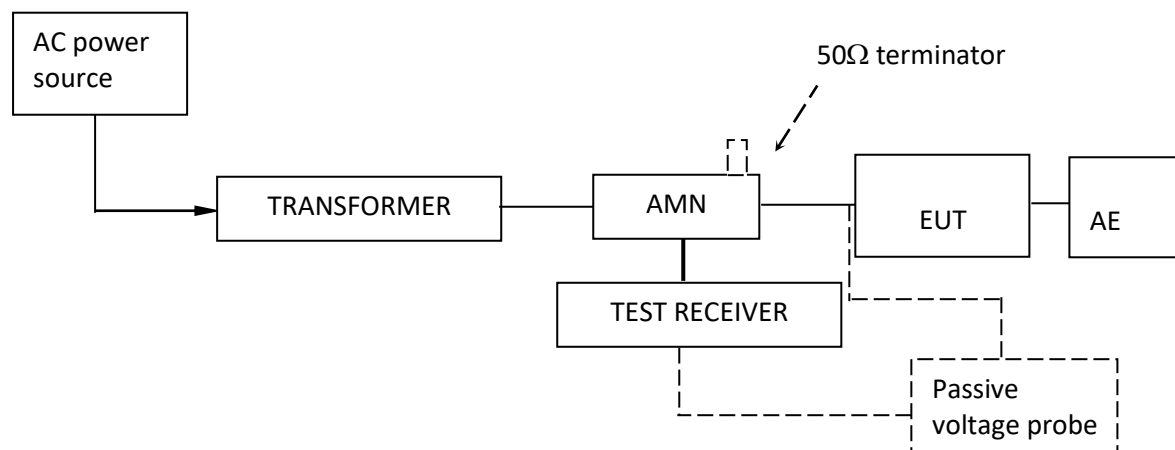
TEST REPORT

5. EMI TEST

5.1 Conducted Disturbance Voltage at mains ports

Test Result: Pass

5.1.1 Block Diagram of Test Setup



5.1.2 Test Setup and Procedure

The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance. Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT. During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

TEST REPORT

5.1.3 Limit

Frequency range MHz	AC mains terminals dB (uV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note 1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		
Note 2: The lower limit is applicable at the transition frequency.		

TEST REPORT

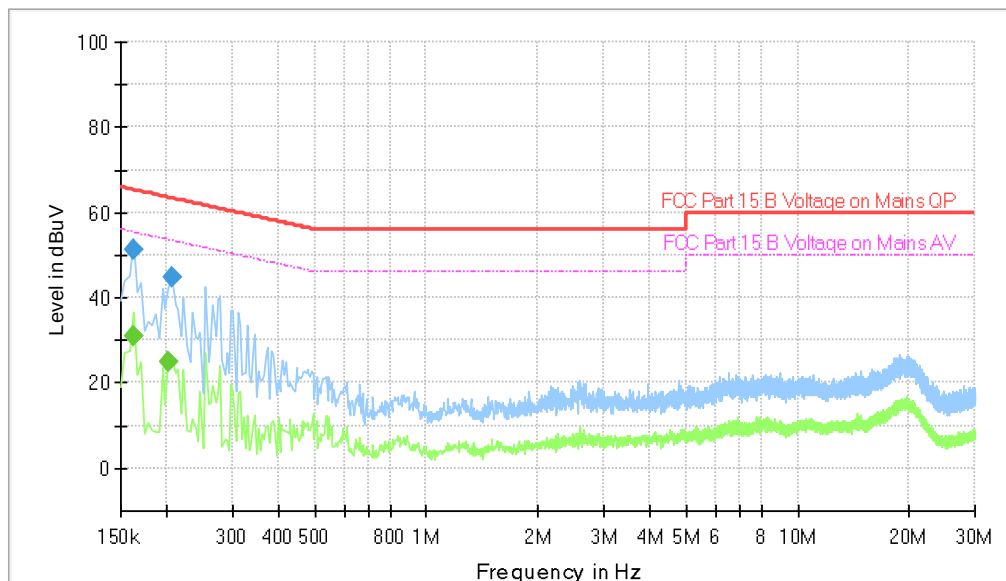
5.1.4 Test Data and curve

At mains terminal:

Tested Wire: Live

Operation Mode: Mode1

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.162000	---	31.04	55.36	24.32	1000.0	9.000	L1	ON	9.7
0.162000	51.39	---	65.36	13.97	1000.0	9.000	L1	ON	9.7
0.202000	---	24.83	53.53	28.70	1000.0	9.000	L1	ON	9.7
0.206000	44.67	---	63.37	18.69	1000.0	9.000	L1	ON	9.7

Remark:

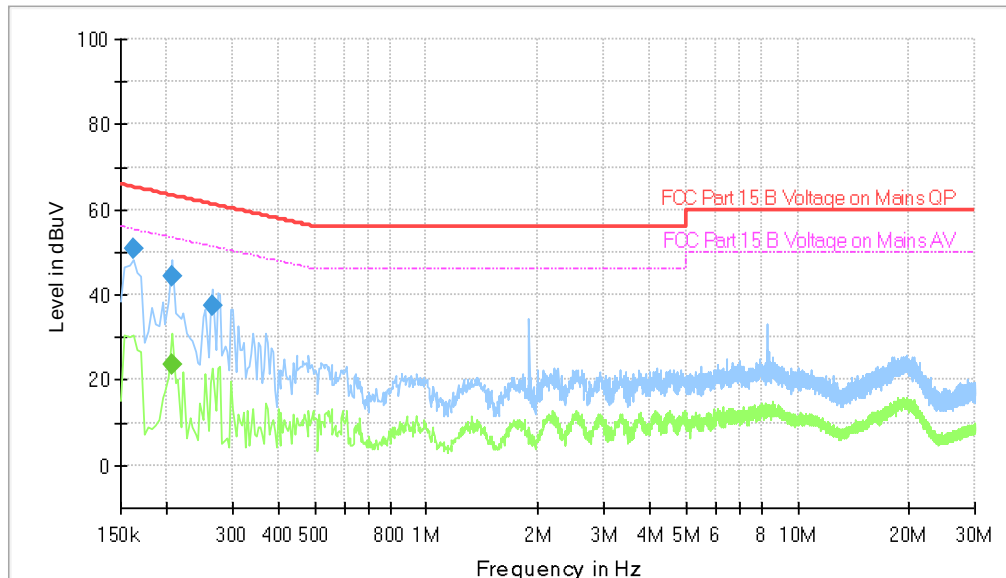
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Neutral

Operation Mode: Mode 1

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.162000	50.81	---	65.36	14.56	1000.0	9.000	N	ON	9.8
0.206000	---	23.65	53.37	29.72	1000.0	9.000	N	ON	9.8
0.206000	44.31	---	63.37	19.05	1000.0	9.000	N	ON	9.8
0.266000	37.51	---	61.24	23.73	1000.0	9.000	N	ON	9.8

Remark:

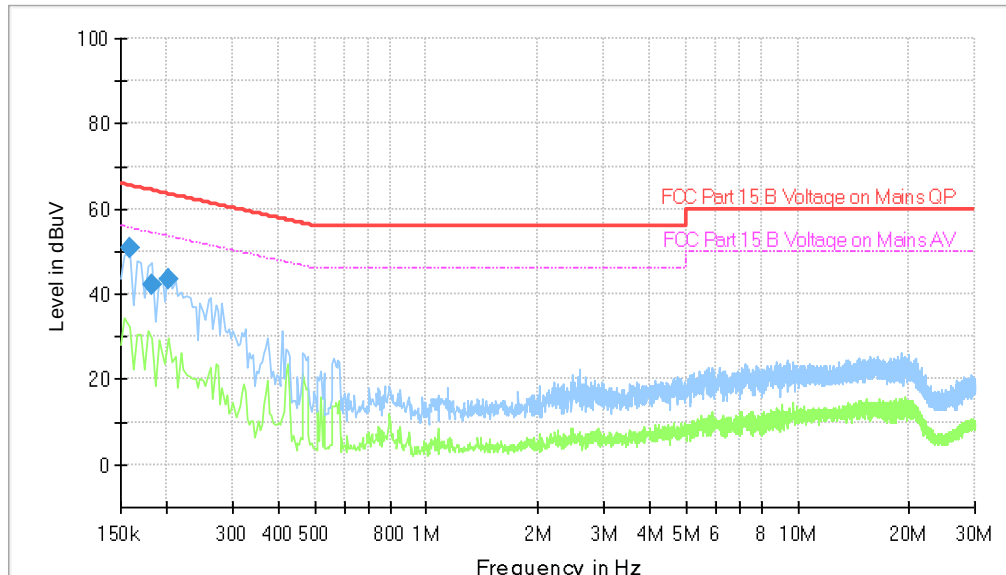
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Live

Operation Mode: Mode 2

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.158000	50.81	---	65.57	14.76	1000.0	9.000	L1	ON	9.7
0.182000	42.06	---	64.39	22.33	1000.0	9.000	L1	ON	9.7
0.202000	43.31	---	63.53	20.22	1000.0	9.000	L1	ON	9.7

Remark:

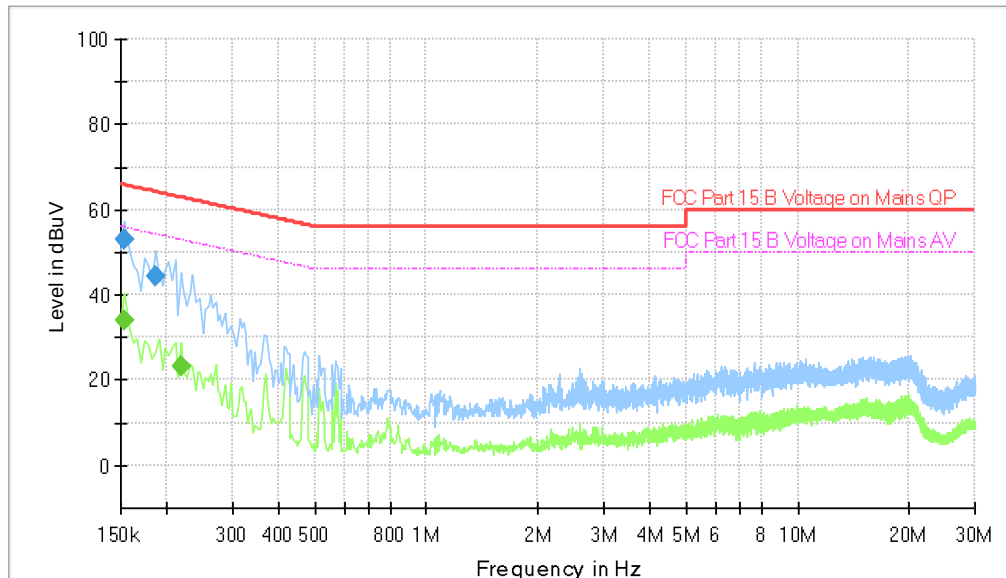
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Neutral

Operation Mode: Mode 2

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154000	---	34.07	55.78	21.72	1000.0	9.000	N	ON	9.8
0.154000	52.78	---	65.78	13.00	1000.0	9.000	N	ON	9.8
0.186000	44.42	---	64.21	19.79	1000.0	9.000	N	ON	9.8
0.218000	---	23.41	52.90	29.48	1000.0	9.000	N	ON	9.8

Remark:

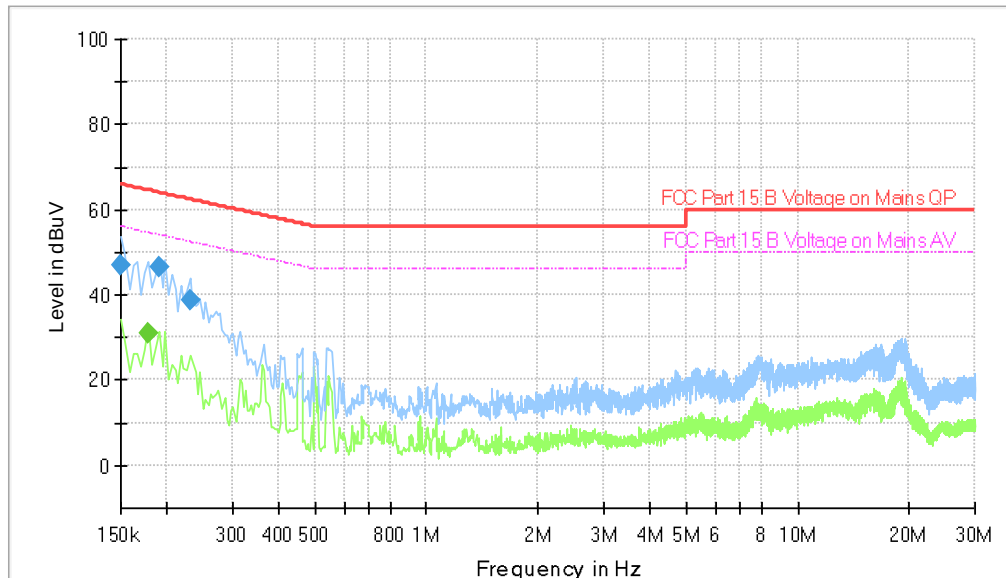
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Live

Operation Mode: Mode 3

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	46.89	---	66.00	19.11	1000.0	9.000	L1	ON	9.7
0.178000	---	31.03	54.58	23.55	1000.0	9.000	L1	ON	9.7
0.190000	46.52	---	64.04	17.52	1000.0	9.000	L1	ON	9.7
0.230000	38.72	---	62.45	23.73	1000.0	9.000	L1	ON	9.7

Remark:

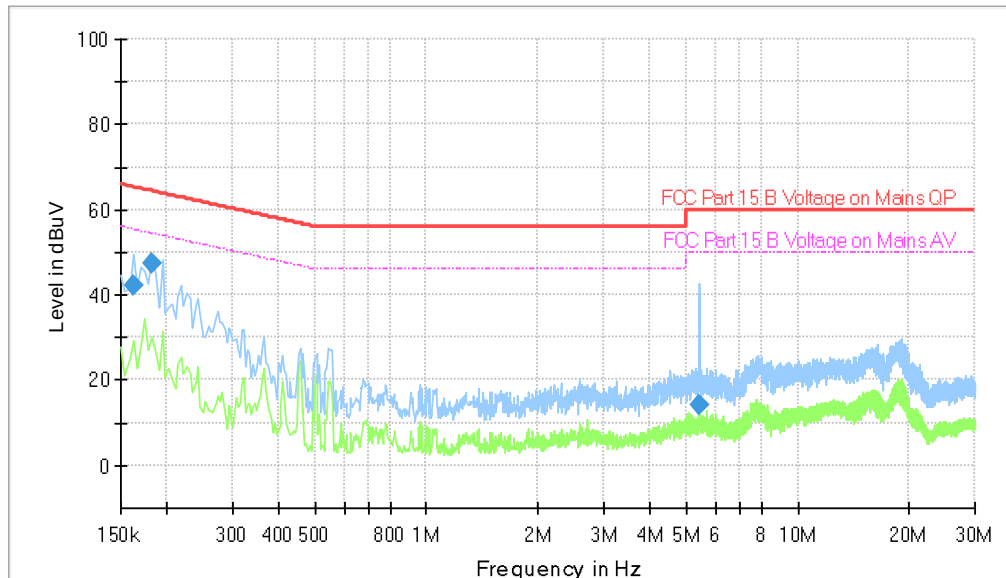
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Neutral

Operation Mode: Mode 3

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.162000	42.20	---	65.36	23.16	1000.0	9.000	N	ON	9.8
0.182000	47.25	---	64.39	17.14	1000.0	9.000	N	ON	9.8
5.442000	13.96	---	60.00	46.04	1000.0	9.000	N	ON	9.9

Remark:

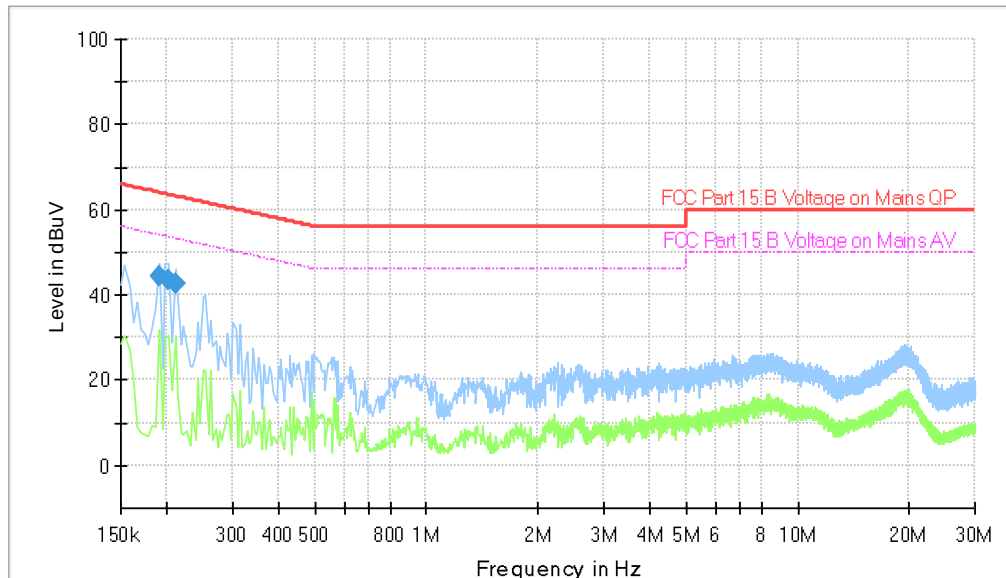
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Live

Operation Mode: Mode 7

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.190000	44.36	---	64.04	19.68	1000.0	9.000	L1	ON	9.7
0.202000	43.45	---	63.53	20.07	1000.0	9.000	L1	ON	9.7
0.210000	42.78	---	63.21	20.42	1000.0	9.000	L1	ON	9.7

Remark:

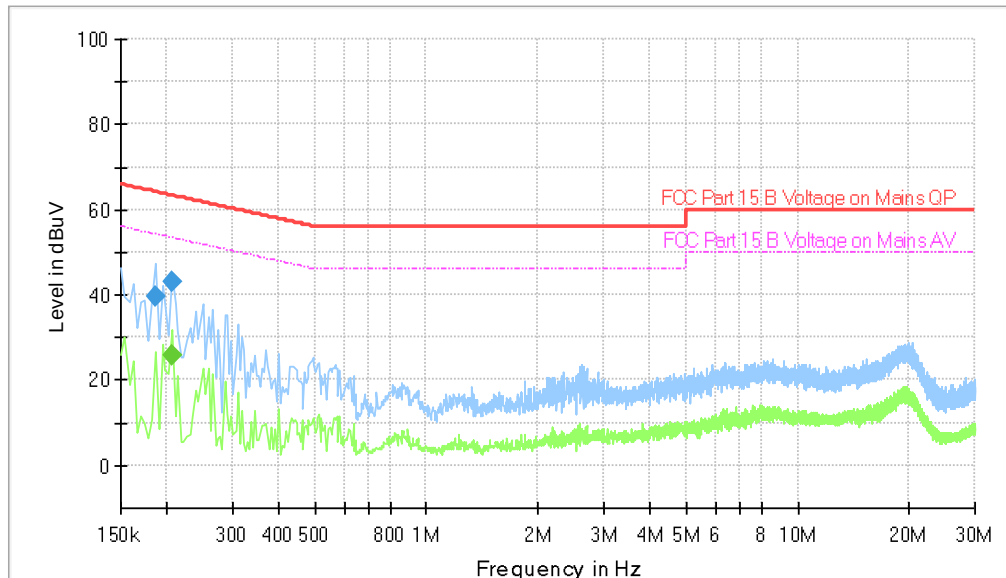
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

Tested Wire: Neutral

Operation Mode: Mode 7

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.186000	39.78	---	64.21	24.43	1000.0	9.000	N	ON	9.8
0.206000	---	25.87	53.37	27.49	1000.0	9.000	N	ON	9.8
0.206000	43.26	---	63.37	20.11	1000.0	9.000	N	ON	9.8

Remark:

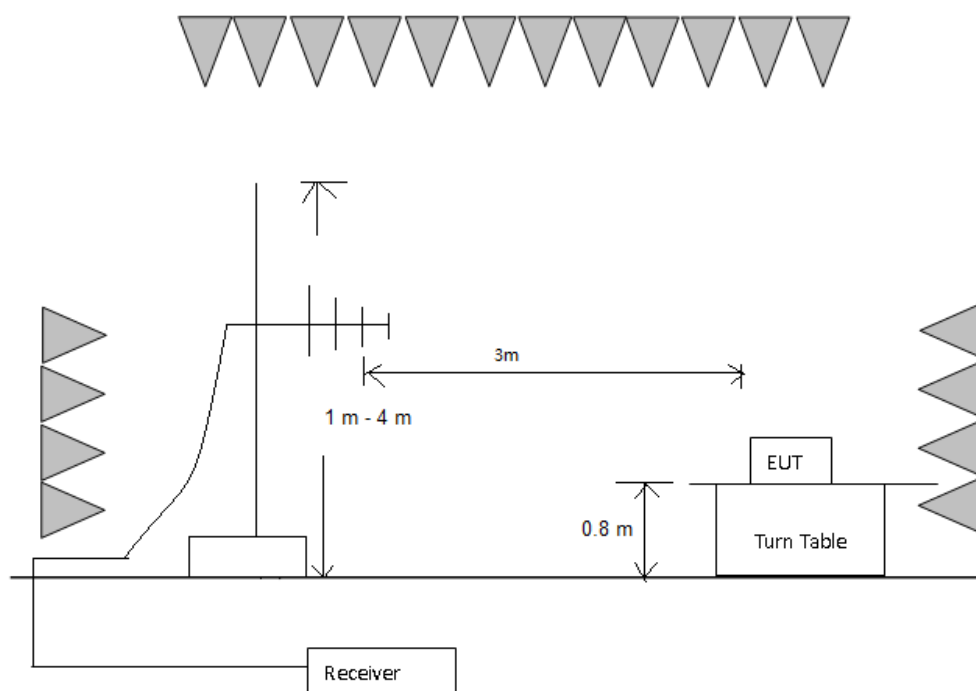
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Level (dBμV)-Limit (dBμV)

TEST REPORT

5.2 Radiated Emission 30 MHz -1000 MHz

Test Result: Pass

5.2.1 Block Diagram of Test Setup



5.2.2 Test Setup and Procedure

The measurement was applied in a semi-anechoic chamber. The EUT and simulators were placed on a 0.8 m high foamed table above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mask. The antenna moved up and down between from 1 meter to 4 meters to find out the maximum emission level.

Broadband antenna was used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4 requirement during radiated test. The bandwidth setting on R&S Test Receiver was 120 kHz.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

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Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper Frequency of Radiated Measurement
Below 1.705 MHz	30MHz
1.705 MHz – 108 MHz	1 GHz
108 MHz – 500 MHz	2 GHz
500 MHz – 1 GHz	5 GHz
Above 1 GHz	5th harmonic of the highest frequency or 40 GHz, whichever is lower.
At transitional frequencies the lower limit applies.	

Remark: Radiated Emission was performed from 30 MHz to 1 GHz.

5.2.3 Limit

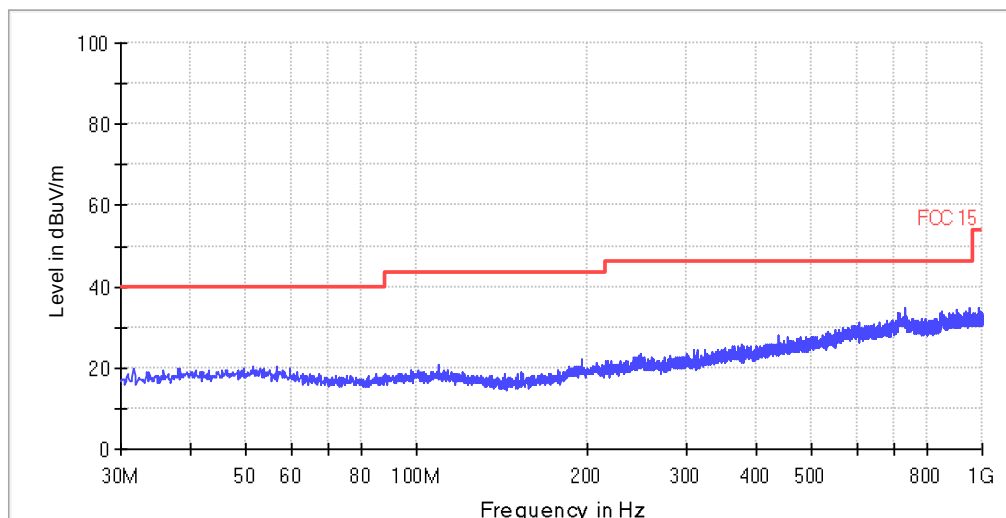
Class B limit at 3m test distance:

Frequency range MHz	Quasi-peak limits dB (μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
960 to 1000	54
At transitional frequencies the lower limit applies.	

TEST REPORT

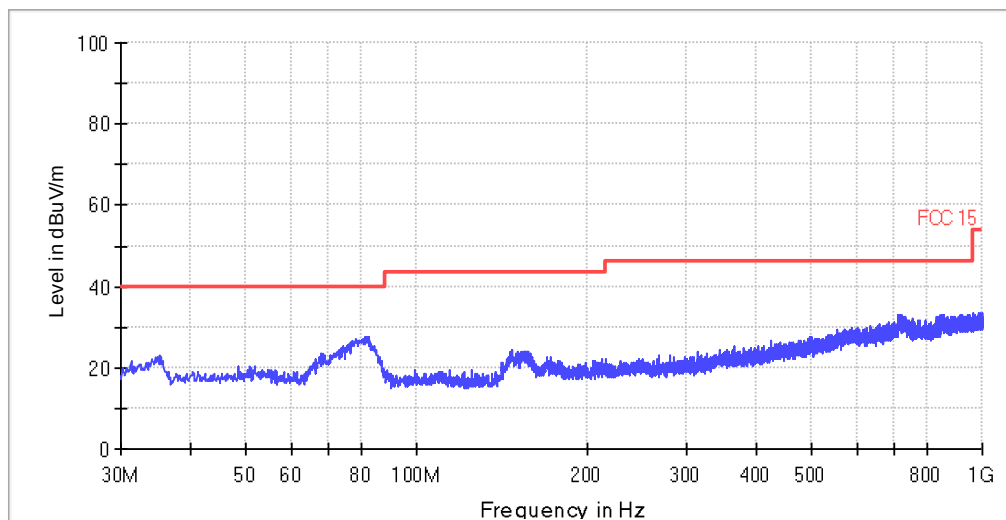
5.2.4 Test Data and Curve

Operation Mode: Mode 1
Horizontal



All emission levels are more than 6 dB below the limit.

Vertical

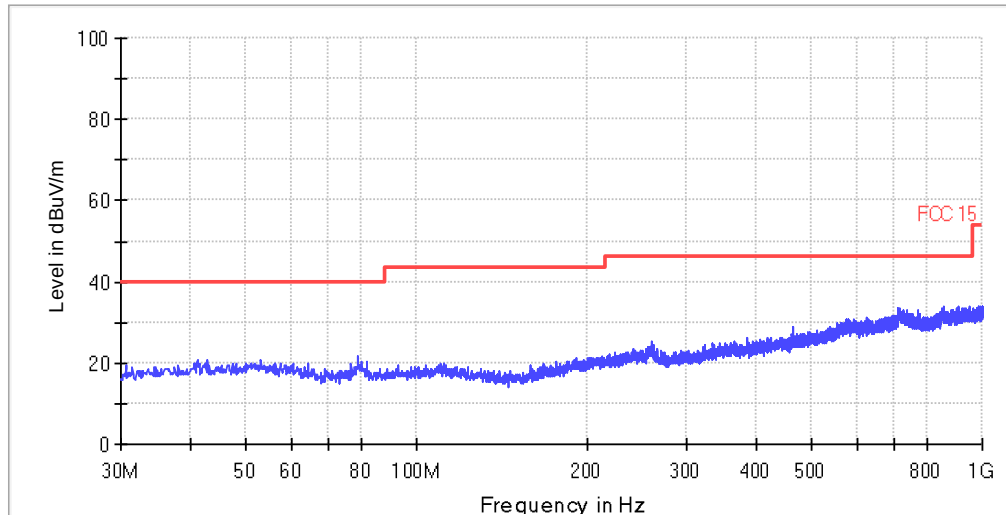


All emission levels are more than 6 dB below the limit.

TEST REPORT

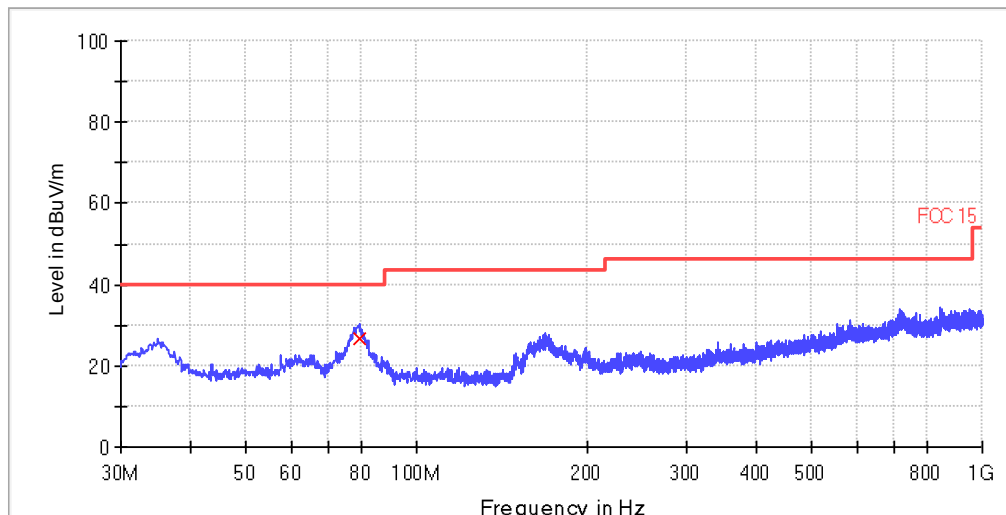
Operation Mode: Mode 2

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical



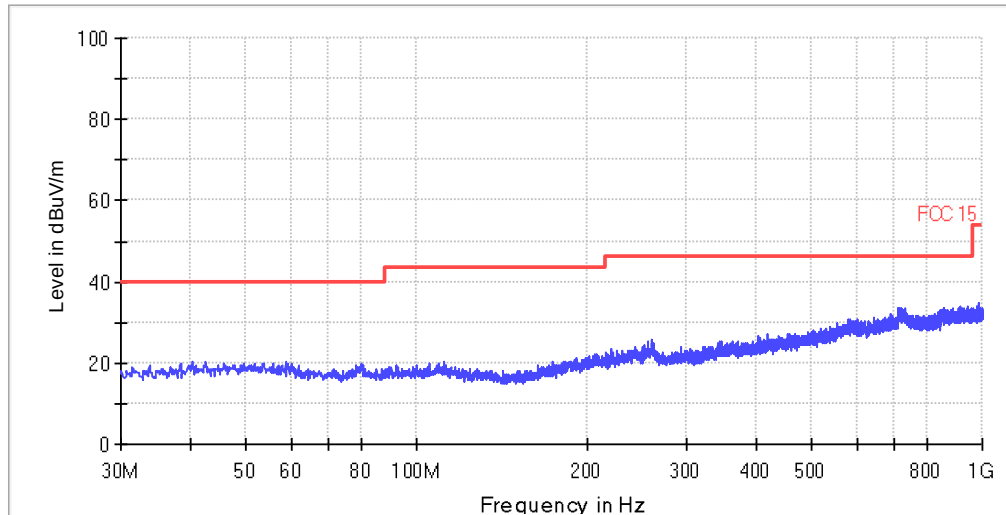
QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
79.360000	26.8	120.000	V	10.8	13.2	40.0

TEST REPORT

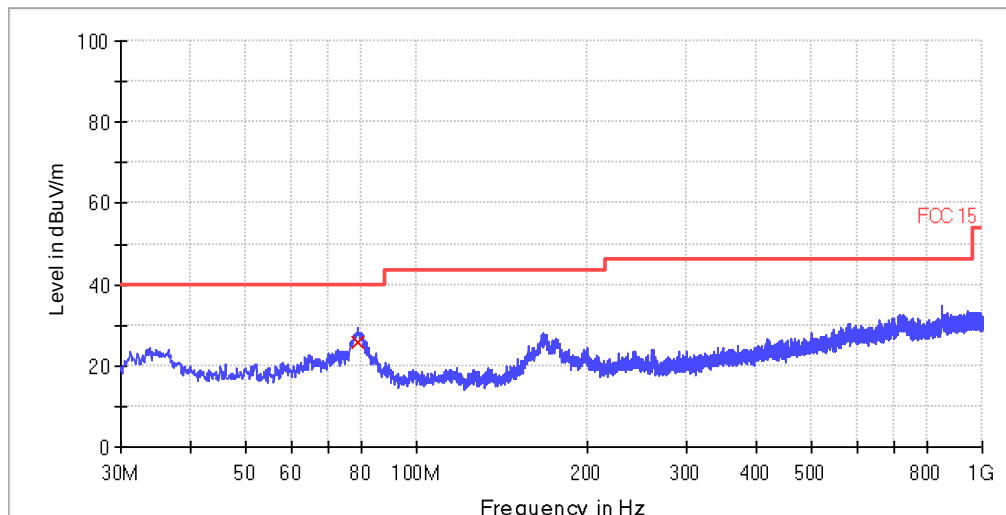
Operation Mode: Mode 3

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical



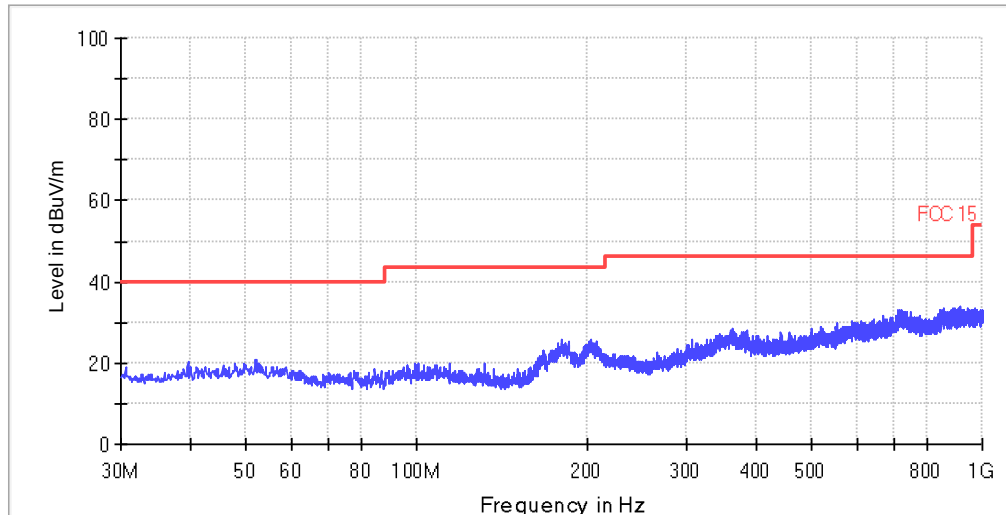
QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
78.680000	25.7	1000.0	120.000	100.0	V	228.0	10.8	14.3	40.0

TEST REPORT

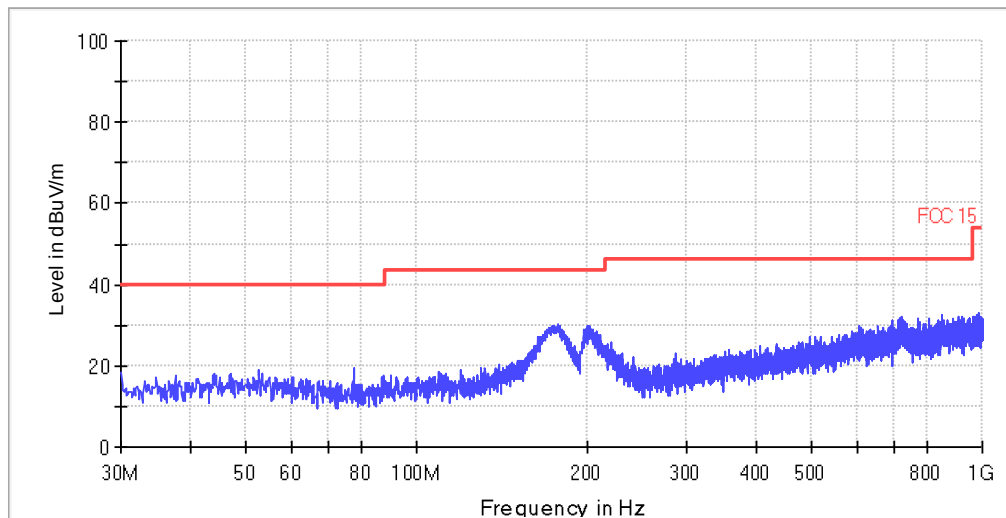
Operation Mode: Mode 4

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical

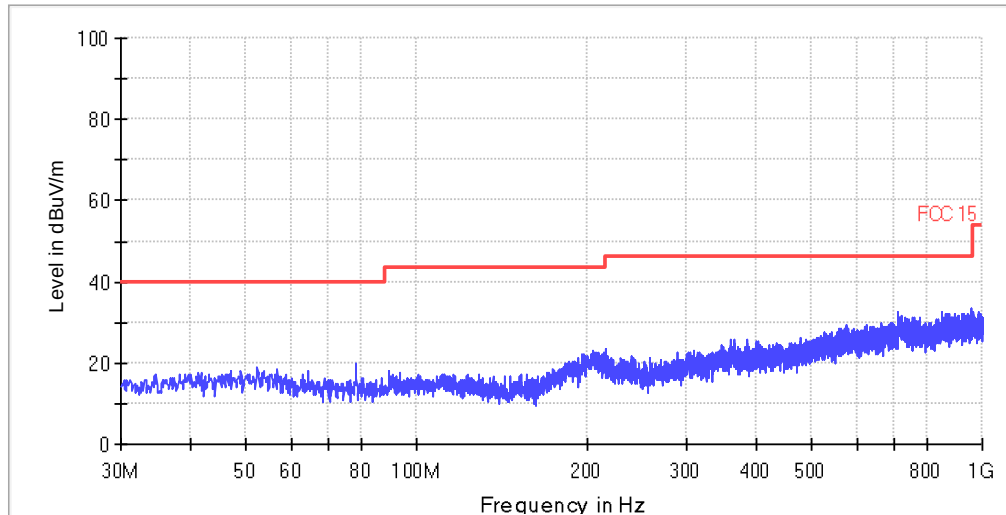


All emission levels are more than 6 dB below the limit.

TEST REPORT

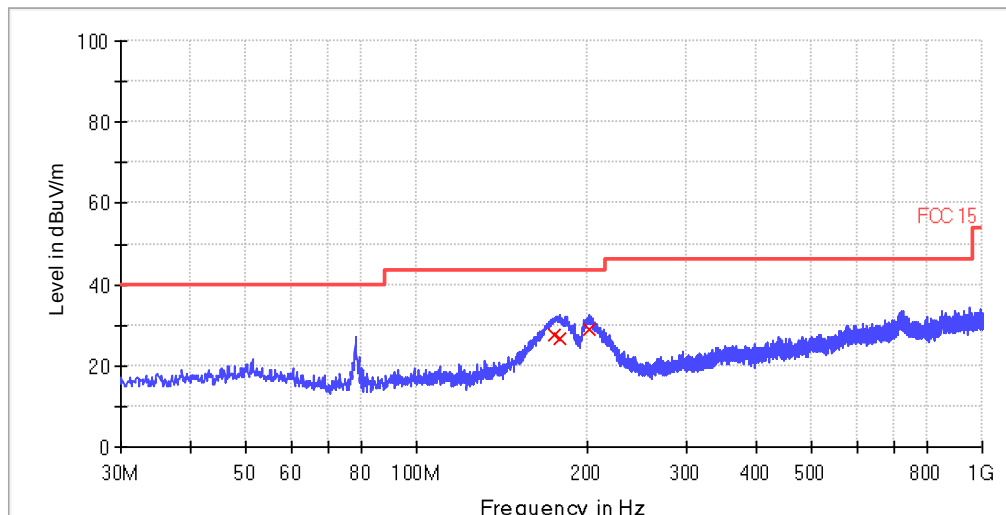
Operation Mode: Mode 5

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical



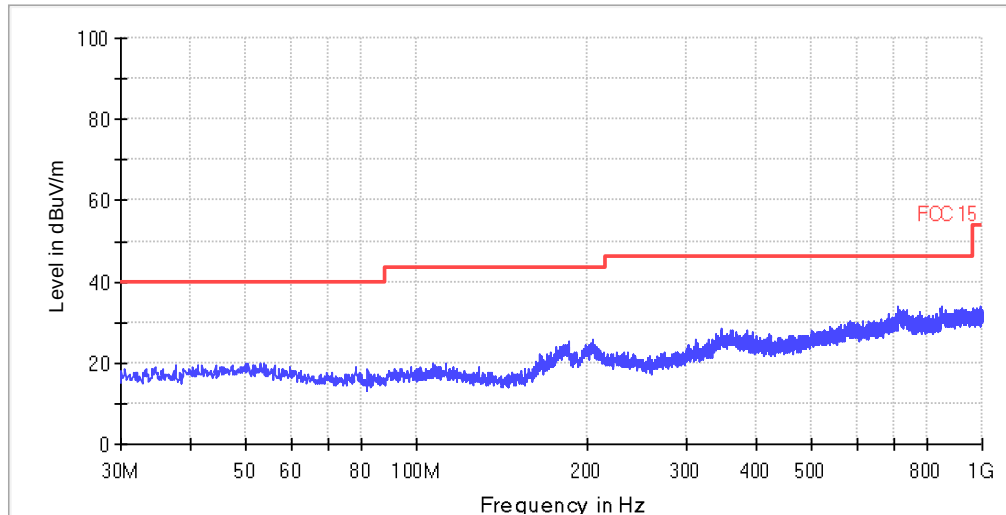
QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
174.720000	27.7	1000.0	120.000	100.0	V	1.0	10.9	15.8	43.5
179.280000	26.9	1000.0	120.000	100.0	V	1.0	11.1	16.6	43.5
202.280000	28.8	1000.0	120.000	100.0	V	1.0	12.5	14.7	43.5

TEST REPORT

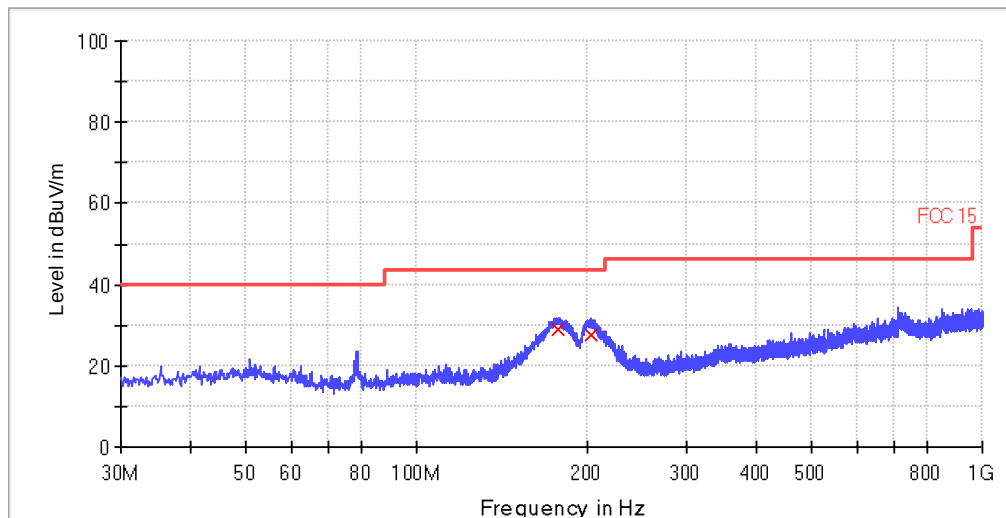
Operation Mode: Mode 6

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical



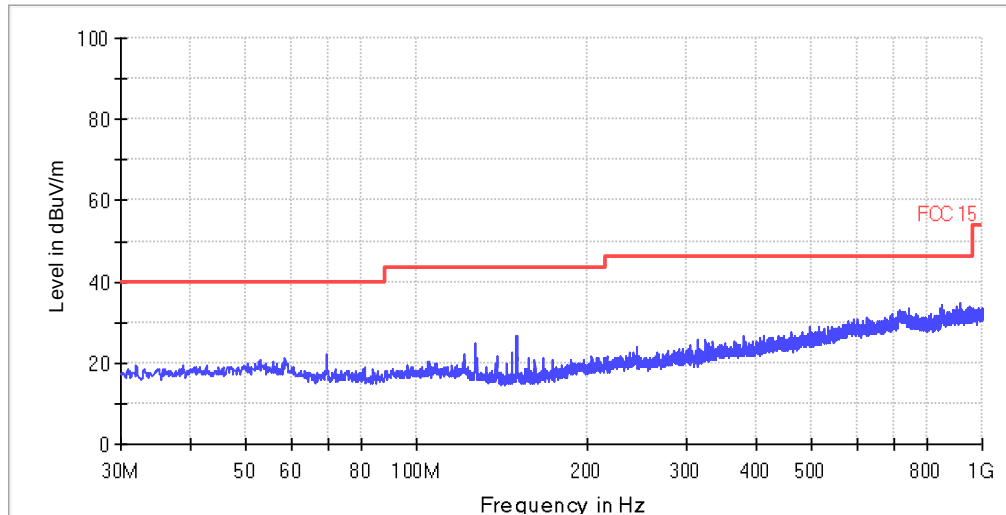
QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
177.840000	28.9	120.000	V	11.1	14.6	43.5
203.440000	27.8	120.000	V	12.5	15.7	43.5

TEST REPORT

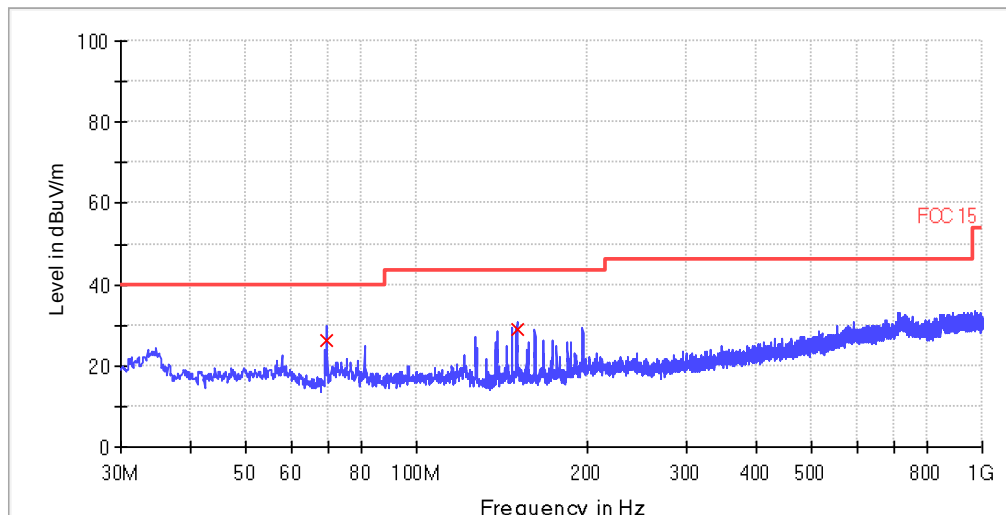
Operation Mode: Mode 7

Horizontal



All emission levels are more than 6 dB below the limit.

Vertical



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
69.400000	26.2	120.000	V	10.8	13.8	40.0
150.360000	28.8	120.000	V	9.7	14.7	43.5

TEST REPORT

5.3 Radiated Emission above 1 GHz

Test Result: Not Applicable

Remark:

The highest internal source of the EUT is not more than 108 MHz, so the measurement above 1000 MHz is not applicable.

*****End of Report*****