



FCC

COMPLIANCE STATEMENT

For the

Product : S-DAQ
Model : SRC-BAMVC2
Multiple Model : N/A
Applicant : Samsung Electronics Co., Ltd.
FCC Rule : CFR 47 Part 15 Subpart B

We hereby certify that the above product has been tested by us with the listed rules and found in compliance with the regulation. The test data and results are issued on the test report no. **TR-W1511-006**

Signature

A handwritten signature in black ink, appearing to read 'Youn, In-soub', is written over a horizontal line.

Youn, In-soub / Technical Manager

Date: 2015-11-10

Test Laboratory: ENG Co., Ltd.

It shall not be reproduced except in full, without the written approval of the ENG Co., Ltd. This document may be altered or revised by the ENG Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

FCC TEST REPORT

Project Number : EA1506Q-002
Test Report Number : TR-W1511-006
Type of Equipment : S-DAQ
Model Name : SRC-BAMVC2
Multiple Model Name : N/A
Applicant : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,
443-742, Korea
Manufacturer : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,
443-742, Korea
FCC Rule : FCC CFR 47 Part 15 Subpart B Section 15.101 Class B
Total page of Report : 27 pages
Date of Receipt : 2015-09-08
Date of Issue : 2015-11-10
Test Result : PASS

This test report only contains the result of a single test of the sample supplied for the examination.
It is not a generally valid assessment of the features of the respective products of the mass-production.

Prepared by Ha, Sang-hoon / Senior Engineer


Signature

2015-11-10
Date

Reviewed by Youn, In-soub / Technical Manager


Signature

2015-11-10
Date

CONTENTS

Page

1. TEST SUMMARY	3
2. EUT (EQUIPMENT UNDER TEST) DESCRIPTION.....	5
3. EMISSION TESTS	10
3.1 AC POWER LINE CONDUCTED EMISSION	10
3.2 RADIATED EMISSION	17

Release Control Record

Issue Report No.	Issued Date	Revisions	Effect Section
TR-W1511-006	2015-11-10	Initial Release	All

1. TEST SUMMARY

1.1 Regulations and results

The EUT (Equipment Under Test) has been tested according to the following specifications:

APPLICABLE SECTION		TEST DESCRIPTION	RESULTS
FCC	Part 15 Subpart B Section 15.107 (a)	AC Power Line Conducted Emission	PASS
	Part 15 Subpart B Section 15.109 (a)	Radiated Emission	PASS

ENG Co., Ltd tested the EUT in accordance with the requirements set forth in the above FCC Rules and Regulation and the EUT met all of the requirements of the standard.

1.2 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC Part 15 Subpart B Section 15.101.

1.3 Test Methodology

The tests mentioned in clause 1.1 in this test report were performed according to FCC CFR 47 Part 2, CFR 47 Part 15 and ANSI C63.4: 2014

1.4 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

1.5 Test Facility

Site Qualification	Registration on IC effective through February 09, 2015 IC Registration No.: 12721A-1
	Registration on FCC effective through February 24, 2015 FCC Registration No.: 955964
	Appointed Laboratory acc. to ISO/IEC 17025 by TUV Rheinland on June 22, 2015 Appointment No: UA 50314109-0001
	Designated Laboratory acc. to ISO/IEC 17025 by Radio Research Agency in Korea on October 20, 2015 Designated No: KR0160
Test Site	ENG Co., Ltd.
Site Location	135-60 Gyeongchung-daero, Gonjiam-eup, Gwangju-si, Gyeonggi-do, Korea.

2. EUT (Equipment Under Test) Description

The EUT is a device for transferring voltage signal and equipment information to an agent PC through wired/wireless communication. For wireless communication, the EUT has WLAN module has function for 802.11a/b/g, and the WiFi portion shall be covered other test report and shall be subjected to certification procedure.

This report covers wired function for Serial and LAN communication mode and the EUT shall be installed into a factory for measuring voltage signal and equipment information from other equipment and then send the information to the office, so the EUT is subjected to Verification procedure.

EUT TYPE	S-DAQ
KIND OF CLASS	Other Class B Digital devices & Peripherals
MODEL NO	SRC-BAMVC2
BRAND NAME	N/A
SERIAL NO	N/A
FREQUENCY GENERATED OR USED IN EUT (Freq.>= 1 MHz)	32.768 kHz, 12 MHz , 24 MHz, 25 MHz, 33 MHz, 37.4 MHz
EXTERNAL PORT(S)	DC In, RS-232, ADC, LAN 0, LAN 1, USB 1, USB 2 LAN1, USB 1, 2 ports for debug purpose
ELECTRICAL RATING	DC 24 V

2.1 Additional Model

- None

2.2 Mode of operation during the test

Test Mode	Description
# 1	The EUT measured battery power which was connected to the EUT and then continuously transferred data to the Computer via RS-232 cable during the test. The used software during the test was supplied by the applicant.
# 2	The EUT measured battery power which was connected to the EUT and then continuously operated at LAN communications (10 Mbps) mode with Notebook PC using LAN cable during the test.
# 3	The EUT measured battery power which was connected to the EUT and then continuously operated at LAN communications (100 Mbps) mode with Notebook PC using LAN cable during the test.

Note. For finding maximum radiated emission levels, the EUT was pre-tested at each of three orthogonal axis positions and then the EUT was set at that position for the final measurement.

2.3 Description of supported units

The following peripheral devices and/or interface cables were connected during the measurement:

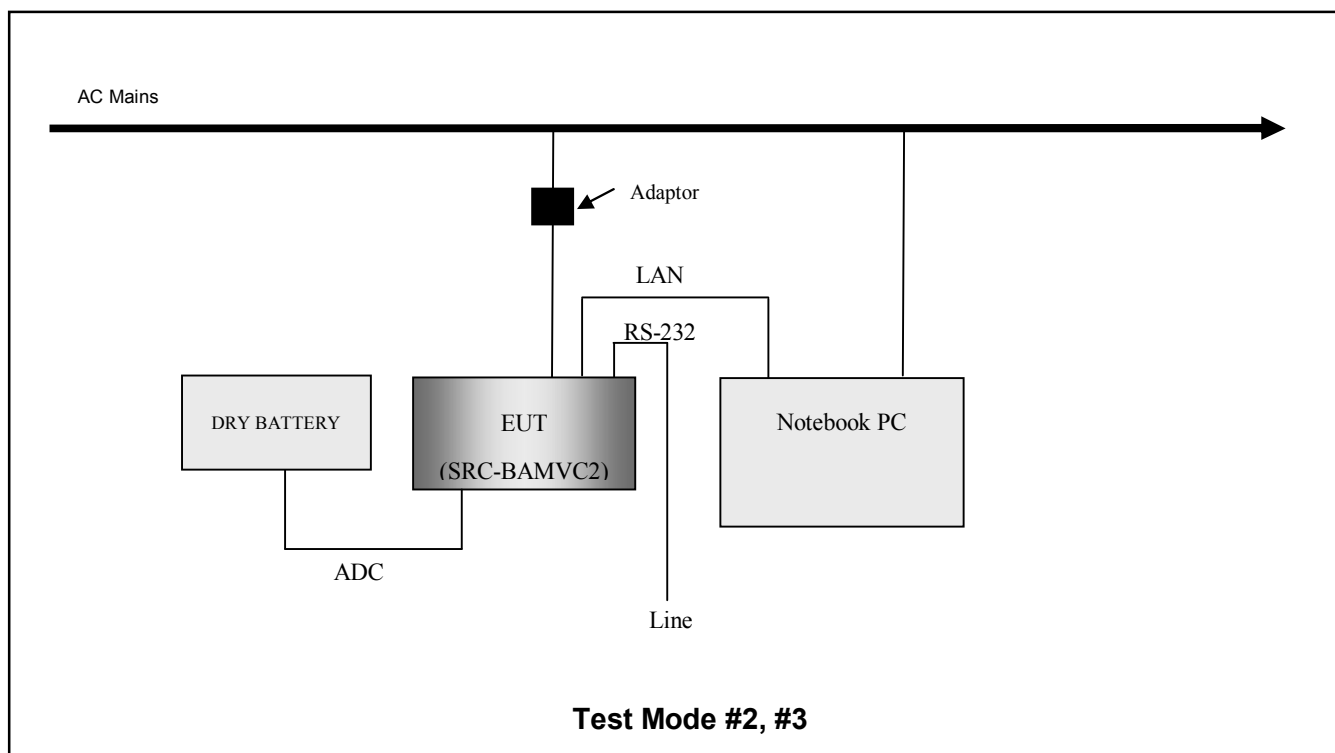
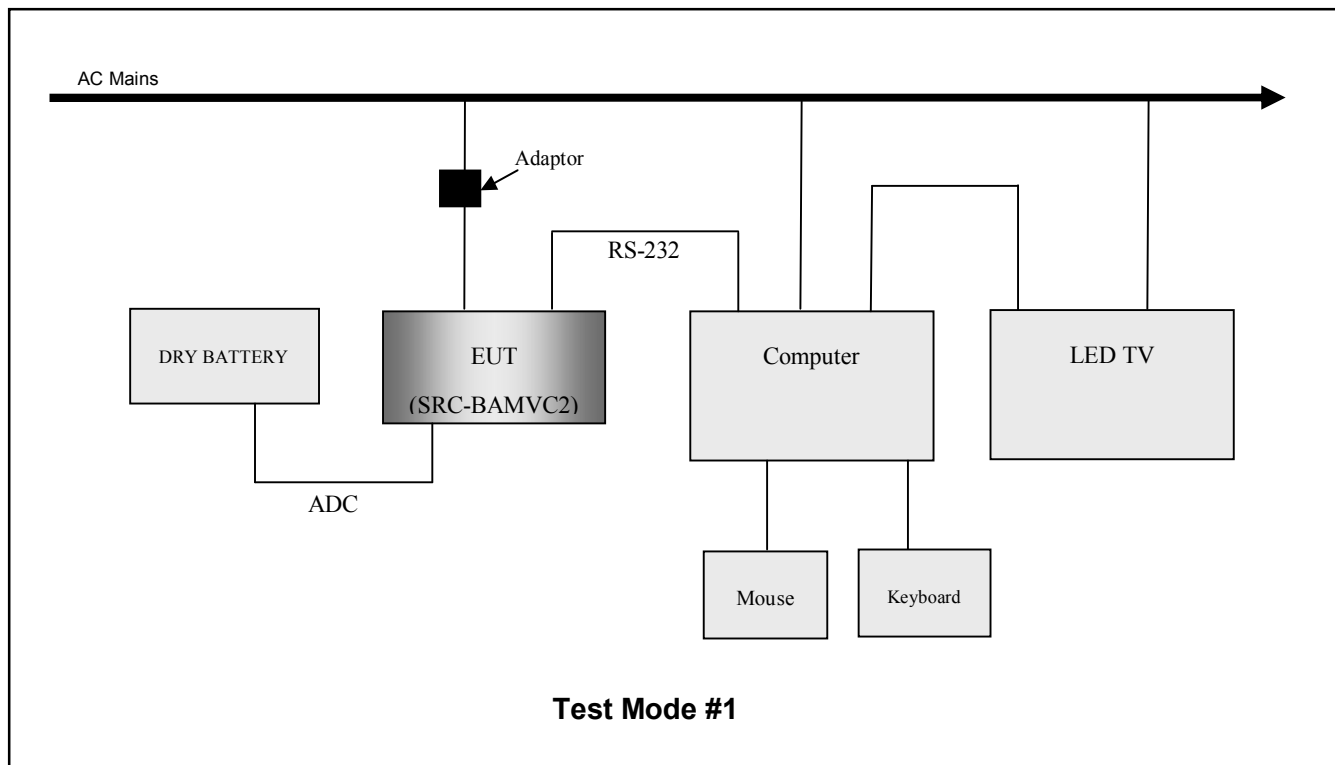
Description	Model No.	Serial No.	Manufacturer.
S-DAQ (EUT)	SRC-BAMVC2	N/A	Samsung Electronics Co., Ltd.
Mode #1	LED TV	23MT55D	412KKFS08851
	Computer	8187-R6A	99YWZA2
	Keyboard	KB-0225	5144870
	Mouse	M-BD69	LNA22204632
	Adaptor	TY-800	N/A
	Dry Battery	N/A	N/A
Mode #2 & #3	Notebook PC	P40F	87W5D32
	Adaptor	TY-800	N/A
	Dry Battery	N/A	N/A

2.3 Cable Description

Ports Name		Shielded (Y/N)	Ferrite Bead (Y/N)	Length (m)	Connected to
Mode #1	DC In	N	N	2.0	Adaptor
	RS-232	Y	N	1.0	Computer
	ADC	Y	N	1.0	Dry Battery
	LAN 0	-	-	-	-
	LAN 1, USB 1,2	-	-	-	-
Mode #2 & #3	DC In	N	N	2.0	Adaptor
	RS-232	-	-	-	-
	ADC	Y	N	1.0	Dry Battery
	LAN 0	Y	N	3.0	Notebook PC
	LAN 1, USB 1,2	-	-	-	-

NOTE: The LAN1 and USB 1, 2 ports for debug purpose, so the ports were not connected.

2.5 Test Setup Drawing



2.6 EUT Modifications

Following modifications were implemented on the EUT for fixing the problem caused by EMC testing and the product will have all of the modifications incorporated into the product when manufactured and placed on the market.

- The ferrite cores (Taejin, EMI 1330) were added to the ADC cable & RS-232 cable lines.
- The ferrite cores (Taejin, EMI 1330) were added to the power cable line by 2 turns.
- The ground of power cable and plane ground was connected.
- The silver coating was added to the inside of plastic housing.
- The filter (Kangseoest, YT752T-801S) was added to the SAMMAX-R08 board.
- The C303, R310 was deleted to the SAMMAX-R08 board.
- The R315 of SAMMAX-R08 board was changed from 243 k Ω to 330 k Ω .
- The ferrite cores (Taejin, TR3615J075) were added to the LAN cable line by 2 turns.

3. EMISSION TESTS

3.1 AC Power Line Conducted Emission

3.1.1 Test setup

The EUT and all supporting equipments were placed on a non-metallic table approximately 0.8 m above the ground plane.

Power was fed to the EUT through a $50\ \Omega$ / $50\ \mu\text{H}$ + $5\ \Omega$ Line Impedance Stabilization Network (LISN) and all supporting equipments were connected to another LISN. The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient noise. Preliminary Power Line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2014 7.3.3 to determine the worse operating conditions.

The test set-up photos are included in appendix I.

Used Software for measurement is EMC 32 supplied by Rohde&Schwarz.

3.1.2 Measurement uncertainty

Frequency range	Val. acc. CISPR 16-4-2
150 kHz ~ 30 MHz	$\pm 2.07\ \text{dB}$

The measurement uncertainties are given with 95 % confidence.

3.1.3 Test Result

Date of Test	2015-10-26		
Temperature	20.4 °C	Relative humidity	46.3 % R.H.
Operating Input Voltage	120 Vac	Input Frequency	60 Hz
Frequency range	Resolution Bandwidth	Video Bandwidth	Detector Mode
0.15 MHz ~ 30 MHz	9 kHz	30 kHz	Peak , Q.P and/or Average
Test Mode	Mode #1, #2 and Mode #3		
Test Result	Pass	Tested By	Shin, Jae-young 

3.1.4 Sample Calculated Example

At 5.31 MHz

QP Limit = 60.0 dBuV

Correction Factor (C. Factor) of LISN, Pulse Limiter and cable loss at 5.31 MHz = 9.7 dB

Q.P Reading from the Test receiver = 20.8 dBuV

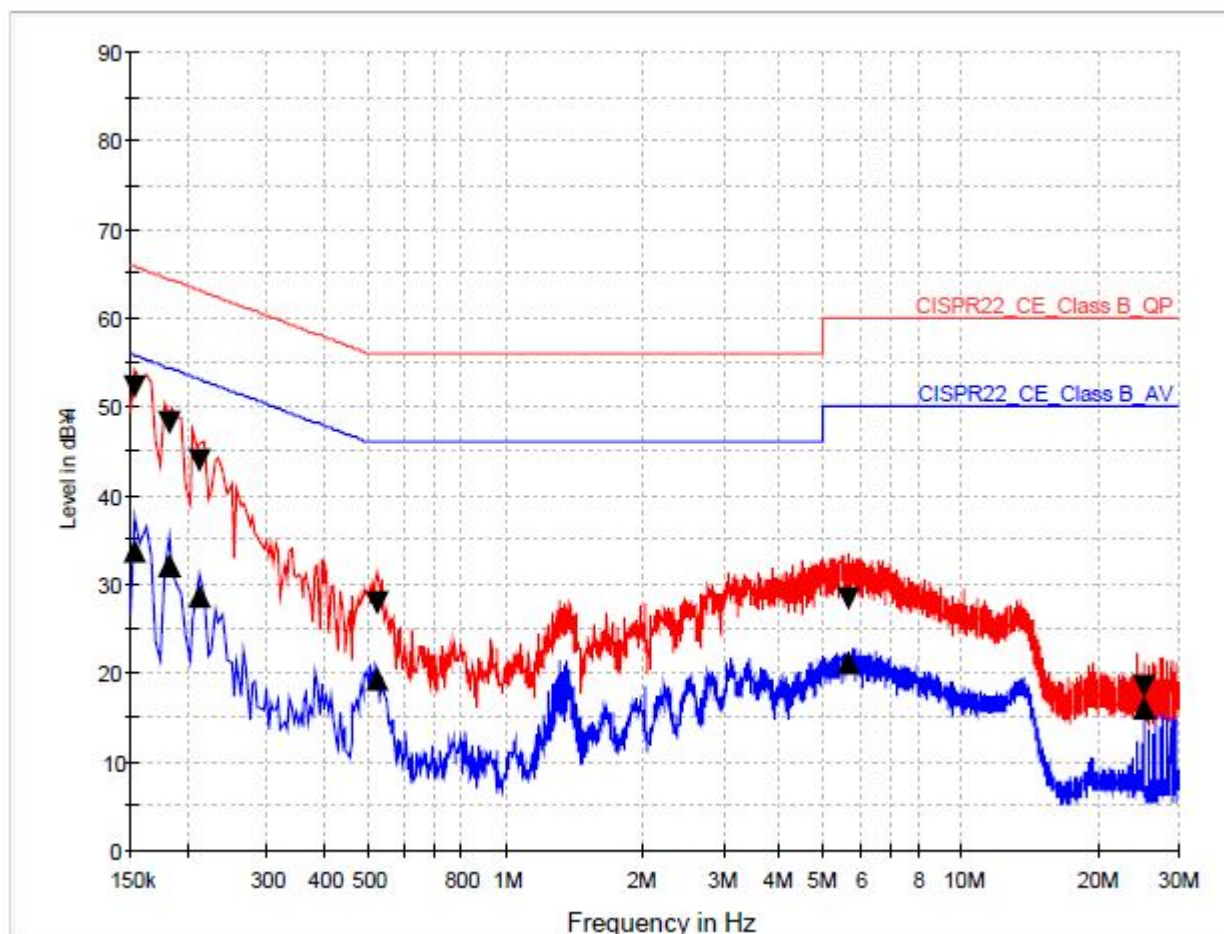
(Calculated value for system losses by software EMC32 manufactured by Rohde & Schwarz)

Therefore Q.P Margin = 60 - 20.8 = 39.2

so the EUT has 39.2 dB margin at 5.31 MHz

3.1.5 Test Data

Mode #1	HOT LINE
---------	----------



[Graphical Test Data for Mains Terminal Disturbance Voltage]

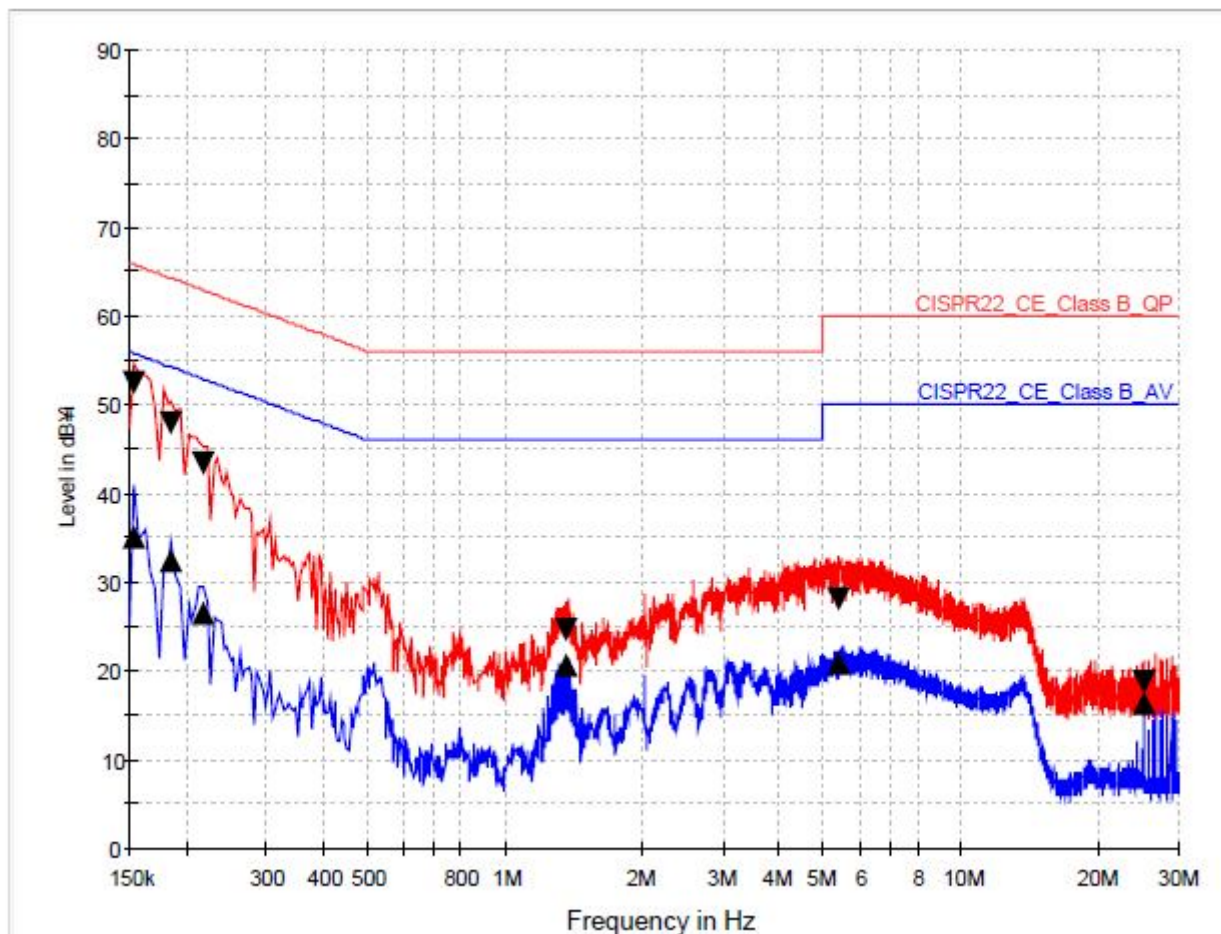
Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - CAV (dB)	Limit - CAV (dBµV)
0.154000	52.1	33.8	9.000	L1	9.6	13.6	65.8	21.9	55.8
0.182000	48.3	32.1	9.000	L1	9.6	16.1	64.4	22.3	54.4
0.214000	43.8	28.7	9.000	L1	9.6	19.2	63.0	24.4	53.0
0.522000	27.8	19.2	9.000	L1	9.6	28.2	56.0	26.8	46.0
5.670000	28.4	21.2	9.000	L1	9.7	31.6	60.0	28.8	50.0
25.058000	18.6	16.0	9.000	L1	10.0	41.4	60.0	34.0	50.0

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

Mode #1

NEUTRAL LINE



[Graphical Test Data for Mains Terminal Disturbance Voltage]

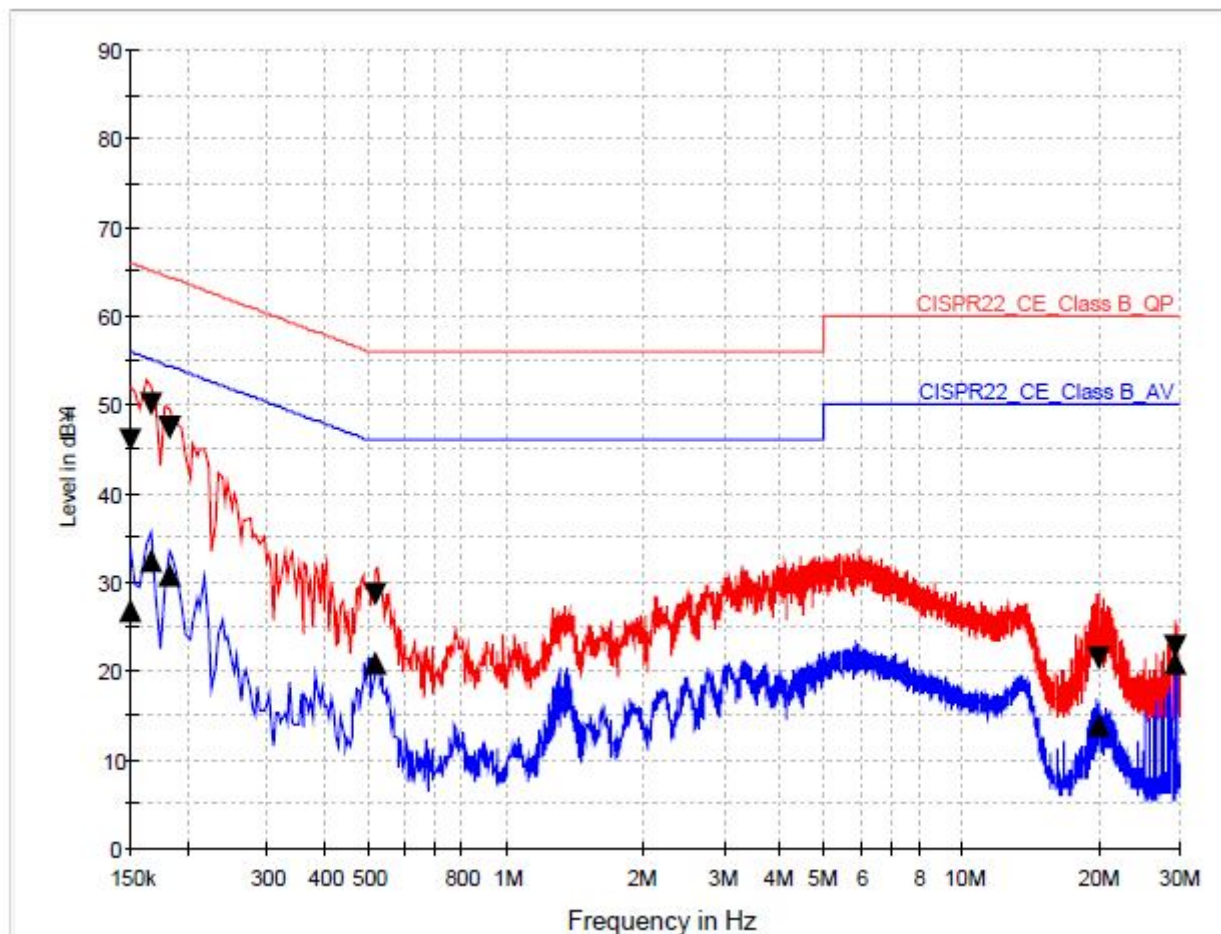
Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - CAV (dB)	Limit - CAV (dBµV)
0.154000	52.6	35.2	9.000	N	9.6	13.2	65.8	20.6	55.8
0.186000	48.0	32.5	9.000	N	9.6	16.2	64.2	21.7	54.2
0.218000	43.5	26.5	9.000	N	9.6	19.4	62.9	26.4	52.9
1.358000	24.7	20.6	9.000	N	9.6	31.3	56.0	25.4	46.0
5.366000	28.2	20.9	9.000	N	9.7	31.8	60.0	29.1	50.0
25.058000	18.8	16.3	9.000	N	10.1	41.2	60.0	33.7	50.0

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

Mode #2

HOT LINE



[Graphical Test Data for Mains Terminal Disturbance Voltage]

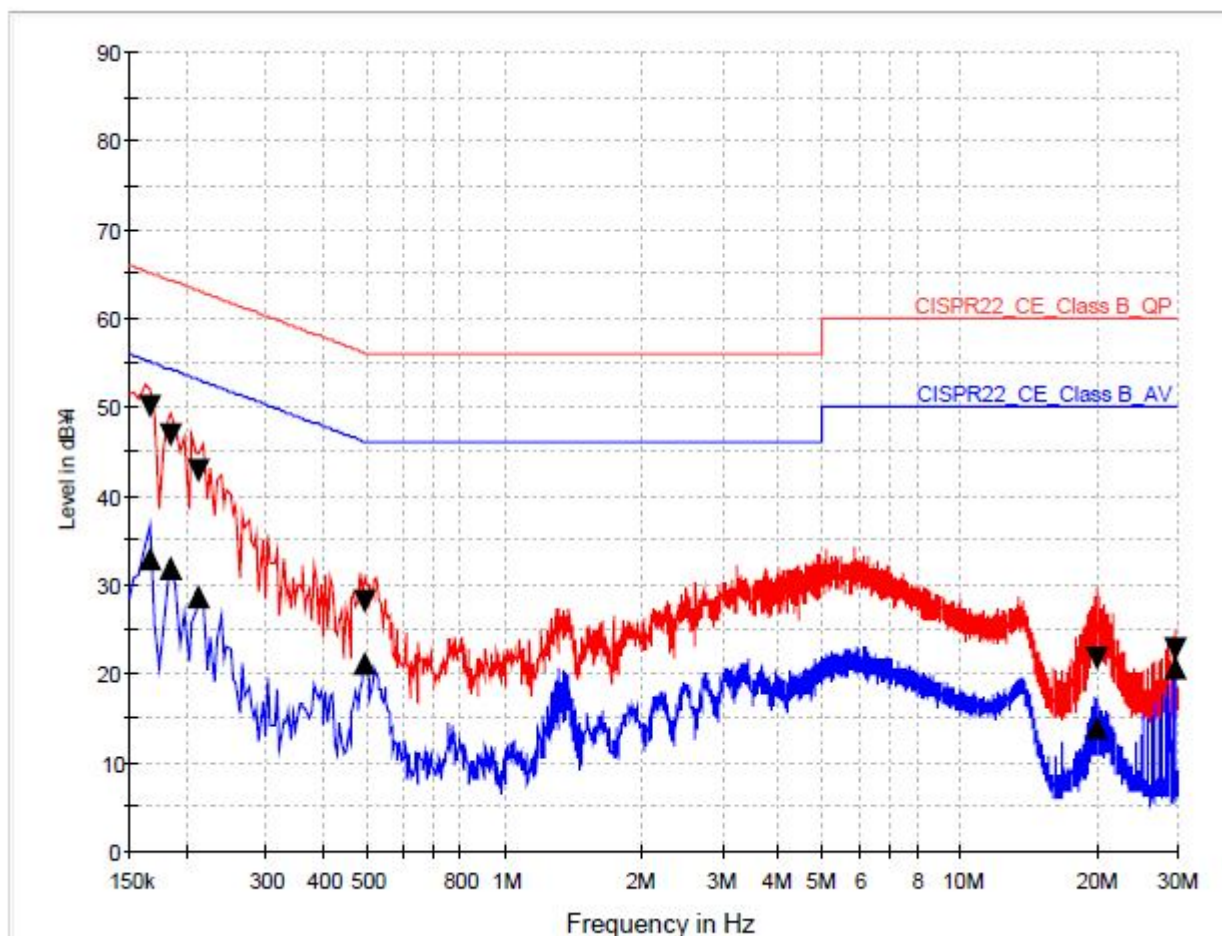
Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - CAV (dB)	Limit - CAV (dBµV)
0.150000	46.0	26.7	9.000	L1	9.6	20.0	66.0	29.3	56.0
0.166000	50.0	32.4	9.000	L1	9.6	15.2	65.2	22.7	55.2
0.182000	47.4	30.8	9.000	L1	9.6	17.0	64.4	23.6	54.4
0.518000	28.6	20.8	9.000	L1	9.6	27.4	56.0	25.2	46.0
19.862000	21.5	13.9	9.000	L1	9.9	38.5	60.0	36.1	50.0
29.302000	22.7	20.9	9.000	L1	10.0	37.3	60.0	29.1	50.0

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

Mode #2

NEUTRAL LINE



[Graphical Test Data for Mains Terminal Disturbance Voltage]

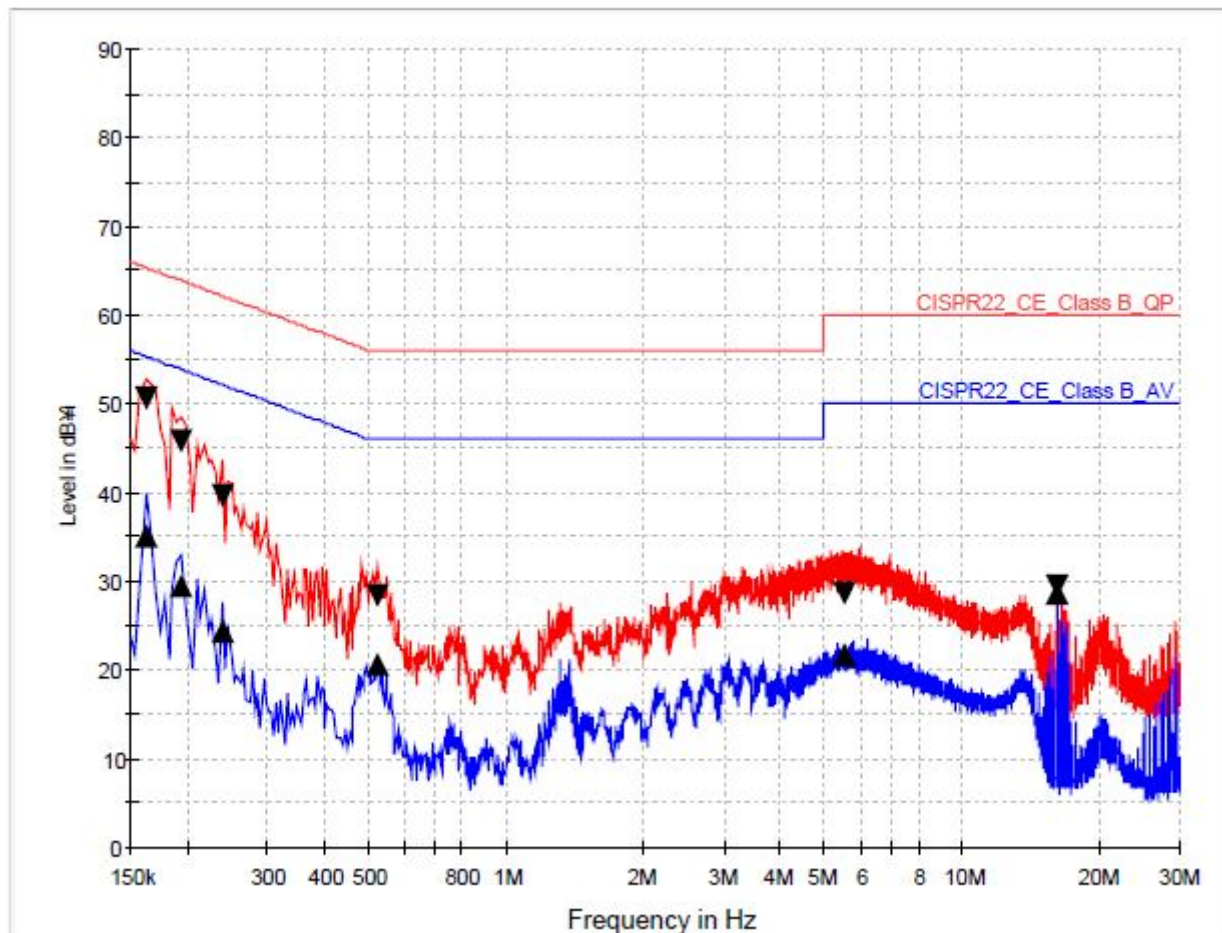
Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - CAV (dB)	Limit - CAV (dBµV)
0.166000	50.2	32.9	9.000	N	9.6	15.0	65.2	22.3	55.2
0.186000	47.0	32.0	9.000	N	9.6	17.2	64.2	22.2	54.2
0.214000	42.8	28.6	9.000	N	9.6	20.2	63.0	24.4	53.0
0.494000	28.2	21.1	9.000	N	9.6	27.9	56.1	25.0	46.1
19.858000	21.7	13.9	9.000	N	10.0	38.3	60.0	36.1	50.0
29.806000	22.6	20.7	9.000	N	10.1	37.4	60.0	29.3	50.0

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

Mode #3

HOT LINE



[Graphical Test Data for Mains Terminal Disturbance Voltage]

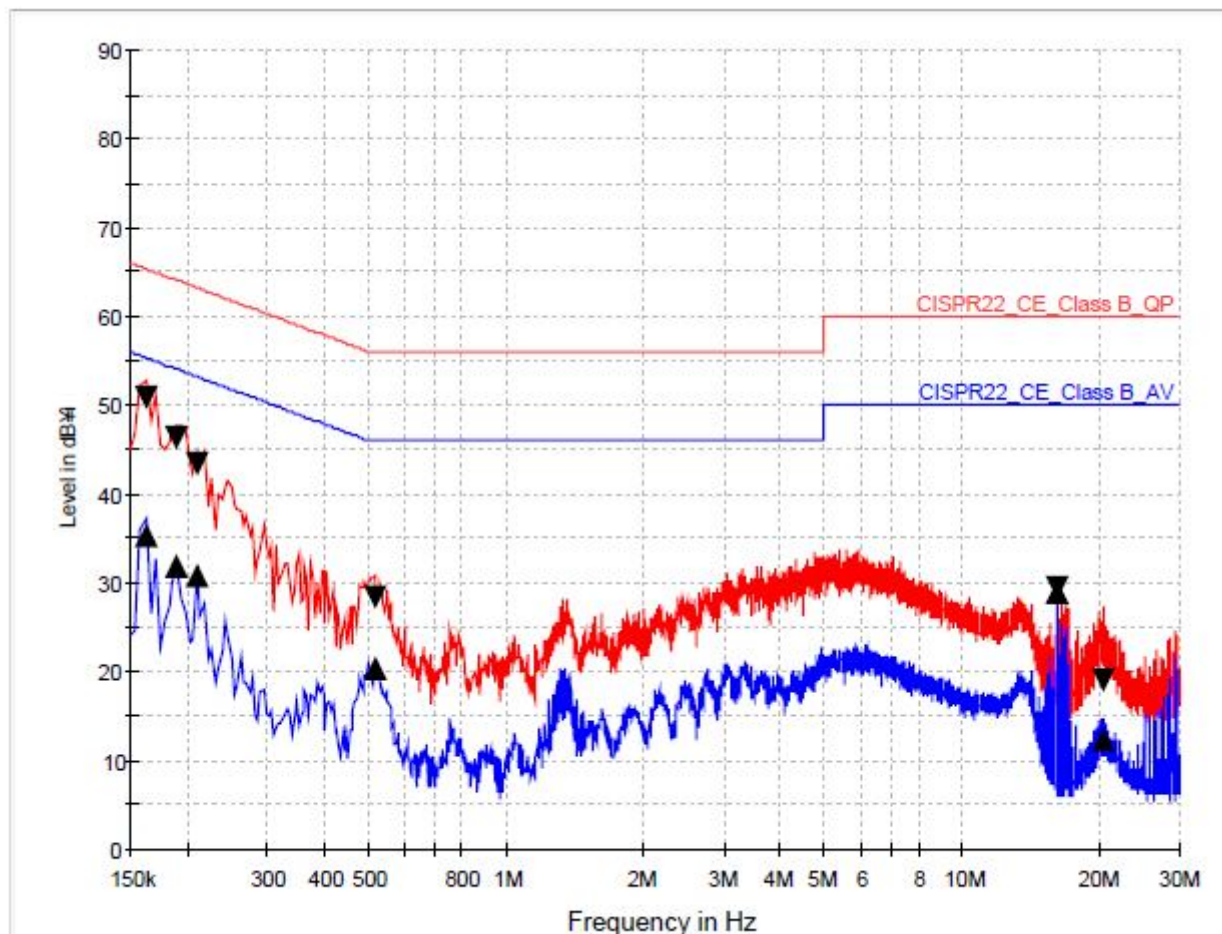
Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Comment
0.162000	50.8	35.2	9.000	L1	9.6	14.6	65.4	
0.194000	45.8	29.5	9.000	L1	9.6	18.0	63.9	
0.238000	39.6	24.3	9.000	L1	9.6	22.6	62.2	
0.522000	28.3	20.7	9.000	L1	9.6	27.7	56.0	
5.546000	28.7	21.7	9.000	L1	9.7	31.3	60.0	
16.230000	29.3	28.8	9.000	L1	9.9	30.7	60.0	

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

Mode #3

NEUTRAL LINE



[Graphical Test Data for Mains Terminal Disturbance Voltage]

Limit and Margin1

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)	Margin - CAV (dB)	Limit - CAV (dBµV)
0.162000	50.9	35.3	9.000	N	9.6	14.5	65.4	20.1	55.4
0.190000	46.5	31.9	9.000	N	9.6	17.6	64.0	22.2	54.0
0.210000	43.4	30.9	9.000	N	9.6	19.8	63.2	22.3	53.2
0.514000	28.3	20.4	9.000	N	9.6	27.7	56.0	25.6	46.0
16.230000	29.4	28.9	9.000	N	9.9	30.6	60.0	21.1	50.0
20.434000	18.9	12.4	9.000	N	10.0	41.1	60.0	37.6	50.0

[Tabulated test data for Mains Terminal Continuous Disturbance Voltage]

3.2 RADIATED EMISSION

3.2.1 Test setup

The radiated emissions measurements were in the 3/10 m, Semi Anechoic Chamber. The EUT and all local supporting equipments were placed on a non-conductive table approximately 0.8 m above the ground plane.

The frequency spectrum from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33 was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

Preliminary radiated emission test was conducted using the procedure in ANSI C63.4: 2014 8.3.1.1 below 1 000 MHz, 8.3.1.2 above 1 GHz to determine the worse operating conditions

Measurement distance between the EUT and an antenna was 10 m.

The test set-up photos are included in appendix II.

Used Software for measurement is manufactured by TSJ.

3.2.2 Measurement frequency range

Highest frequency generated or used in the device or on which the device operates or tunes	Upper Frequency of Measurement range (MHz)
Below 1.705 MHz	30
(1.705 ~ 108) MHz	1 000
(108 ~ 500) MHz	2 000
(500 ~ 1 000) MHz	5 000
Above 1 000 MHz	5th harmonic of the highest freq. or 40 GHz, whichever is lower

The measurement uncertainties are given with 95 % confidence.

3.2.3 Measurement uncertainty

Frequency range	Val. acc. CISPR 16-4-2
Below 1 000 MHz	± 4.78 dB
Above 1 000 MHz	± 4.83 dB

The measurement uncertainties are given with 95 % confidence.

3.2.4 Test result

Date of Test	2015-10-26			
Temperature	19.5 °C	Relative humidity	52.3 % R.H.	
Operating Input Voltage	120 Vac	Input Frequency	60 Hz	
Frequency range	Resolution Bandwidth	Video Bandwidth	Detector Mode	Measurement distance
Below 1 000 MHz	100 kHz or 120 kHz	300 kHz	Peak or Q.P.	10 m
Above 1 000 MHz	1 MHz	1 MHz or 10 Hz	Peak or Average	3 m
Test Mode	Mode #1, #2 and Mode #3			
Test Result	Pass	Tested By	Shin, Jae-young 	

3.2.5 Sample Calculated Example

At 80 MHz

Limit = 40.0 dBuV/m

Result = Receiver reading value + Antenna Factor + Cable Loss - Pre-amplifier gain = 30 dBuV/m

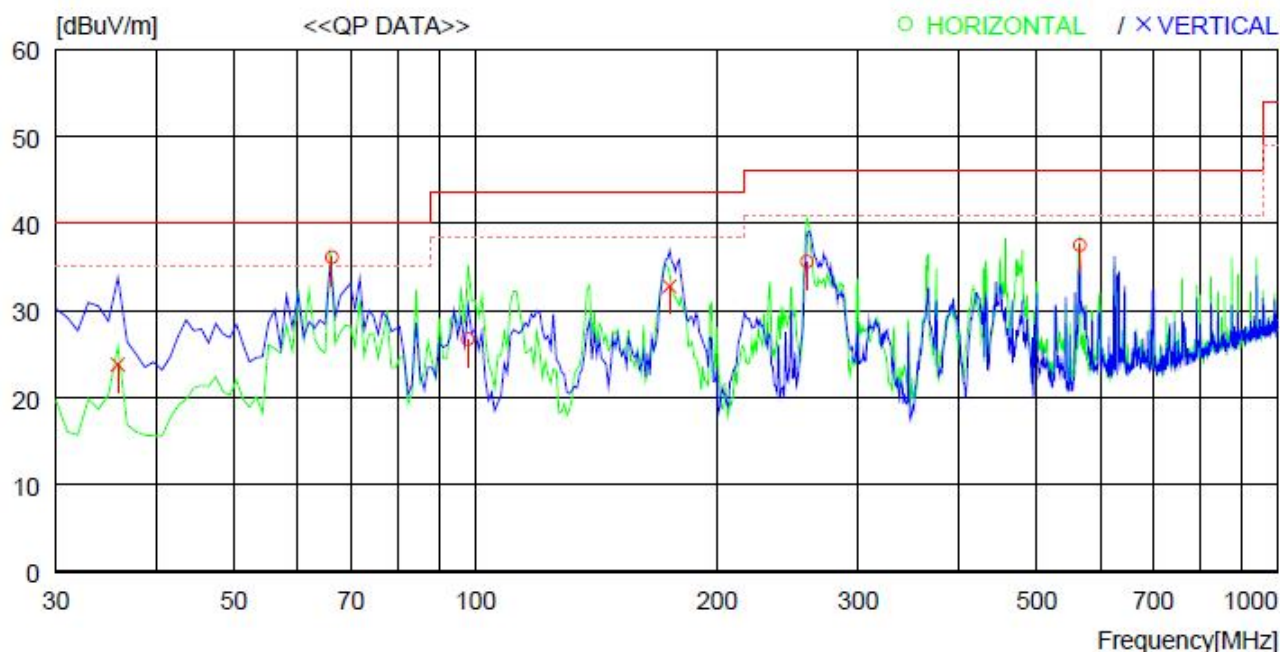
Margin = Limit - Result = 40 - 30 = 10

so the EUT has 10.0 dB margin at 80 MHz

3.2.6 Test data

3.2.6.1 Test Mode: Mode #1

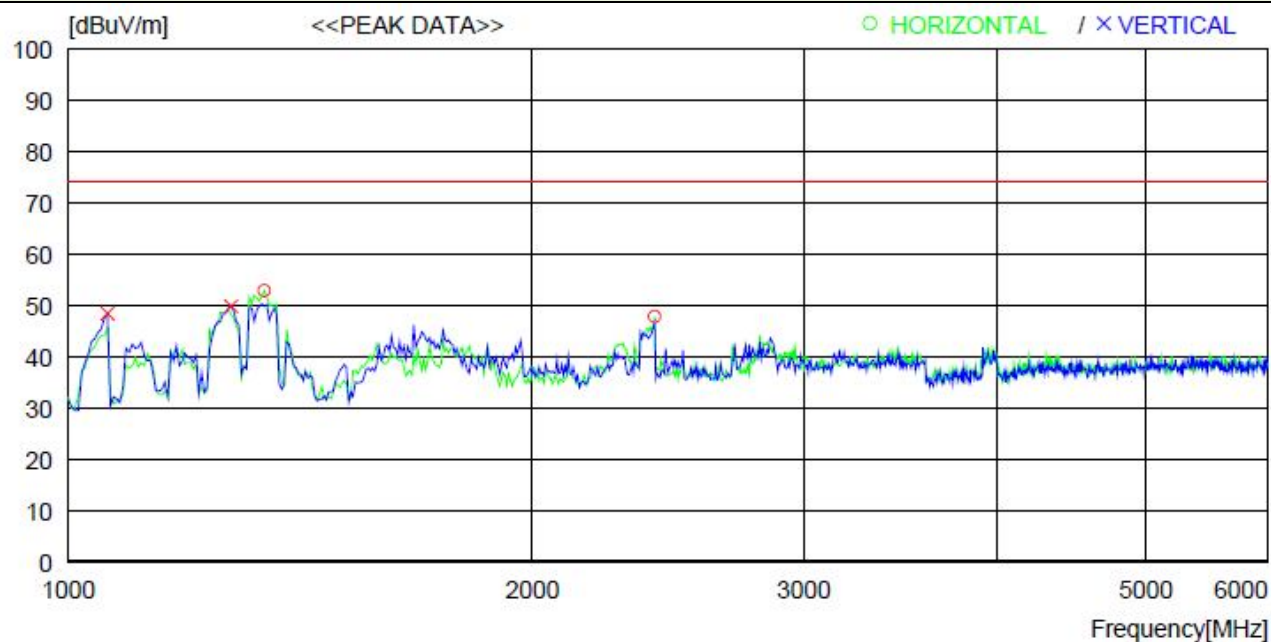
Graphical Test Data for Radiated Emission_Below 1 000 MHz



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	66.234	51.5	10.3	7.0	32.7	36.1	40.0	3.9	400	90
2	97.899	41.0	11.1	7.3	32.7	26.7	43.5	16.8	400	150
3	258.920	47.4	12.4	8.4	32.6	35.6	46.0	10.4	100	350
4	566.409	42.6	18.1	9.8	33.0	37.5	46.0	8.5	100	150
----- Vertical -----										
5	35.820	38.4	11.3	6.8	32.7	23.8	40.0	16.2	100	0
6	174.529	48.7	8.9	7.8	32.6	32.8	43.5	10.7	100	180

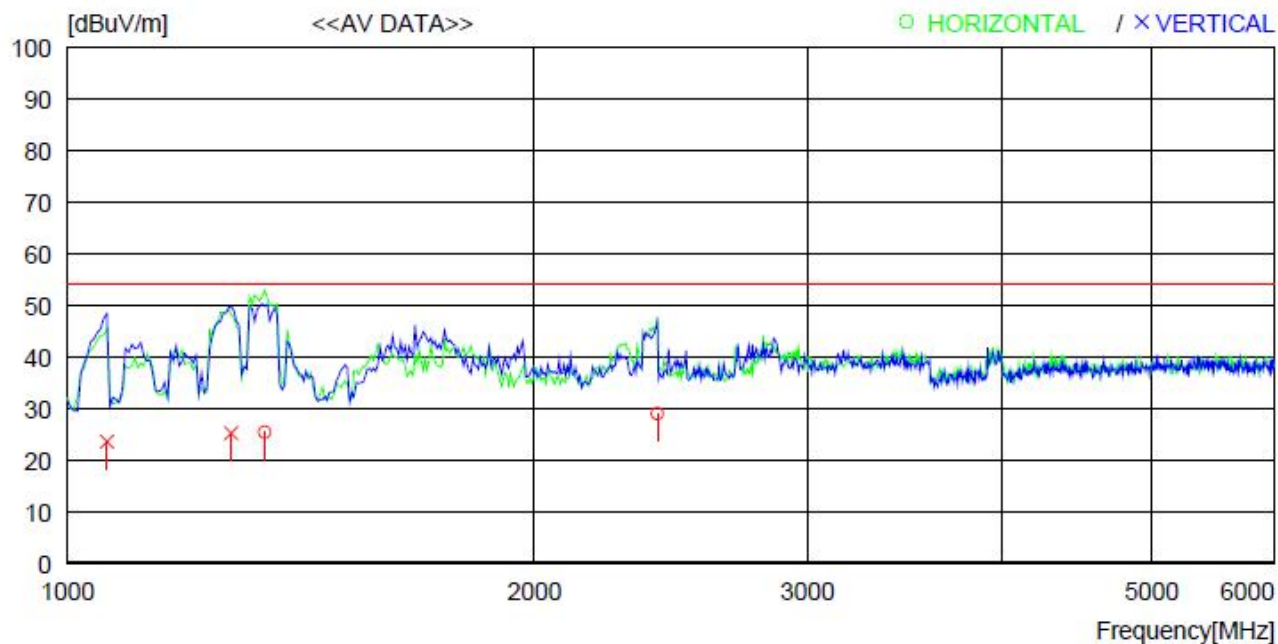
Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Peak)



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1340.000	58.4	24.8	3.0	33.4	52.8	74.0	21.2	100	195
2	2400.000	48.6	28.8	4.1	33.8	47.7	74.0	26.3	100	195
----- Vertical -----										
3	1060.000	53.9	24.4	2.7	32.7	48.3	74.0	25.7	100	171
4	1275.000	55.4	24.6	3.0	33.2	49.8	74.0	24.2	100	235

Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Average)

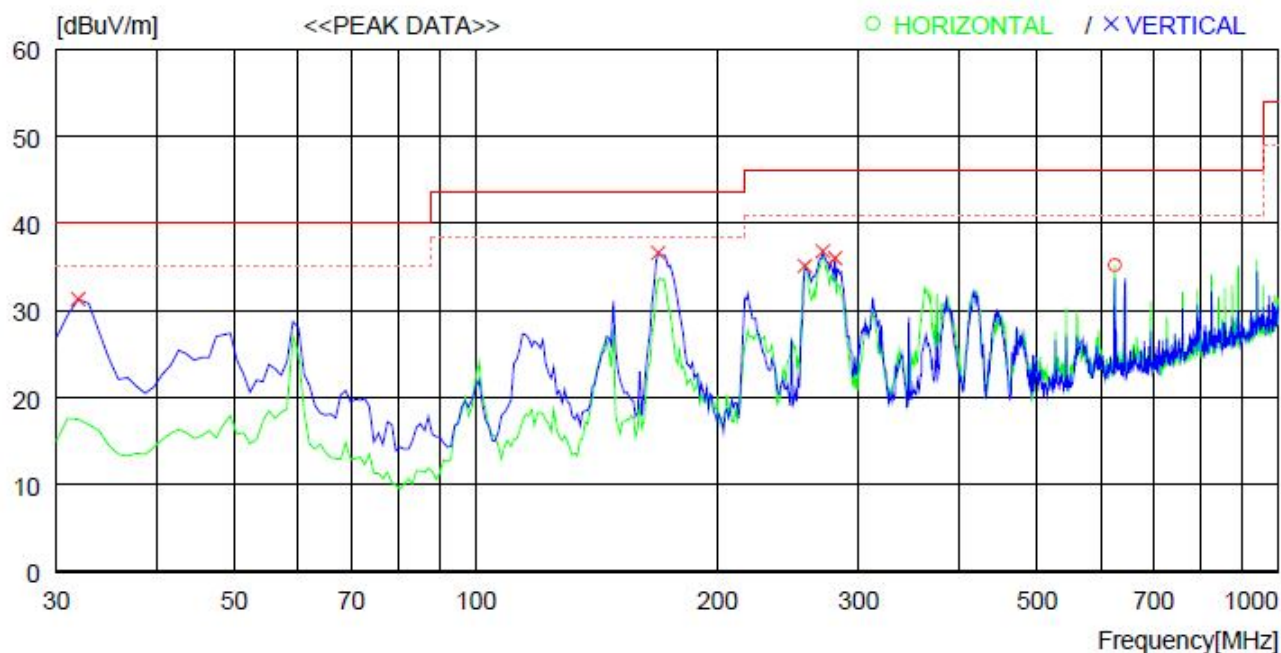


Tabulated Test Data for Radiated Emission

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	1340.000	30.9	24.8	3.0	33.4	25.3	54.0	28.7	100	190
2	2400.000	29.8	28.8	4.1	33.8	28.9	54.0	25.1	100	190
----- Vertical -----										
3	1060.000	29.1	24.4	2.7	32.7	23.5	54.0	30.5	100	170
4	1275.000	30.7	24.6	3.0	33.2	25.1	54.0	28.9	100	240

3.2.6.2 Test Mode: Mode #2

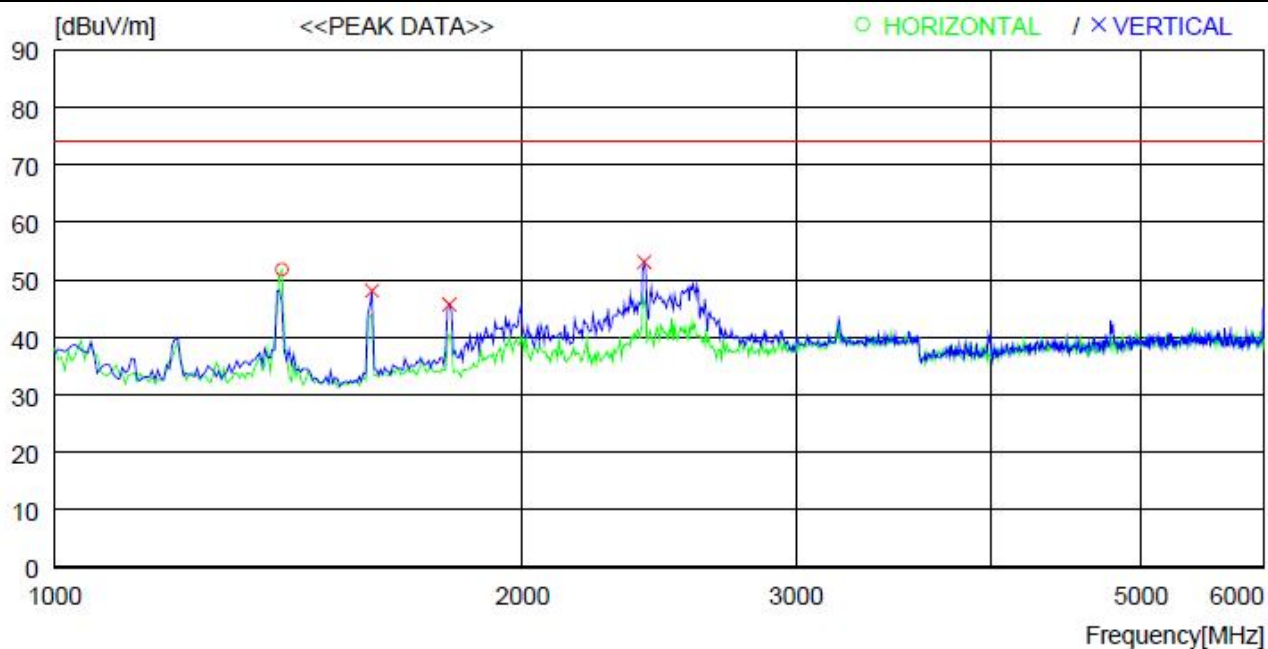
Graphical Test Data for Radiated Emission_Below 1 000 MHz



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	625.577	39.0	19.0	10.1	32.9	35.2	46.0	10.8	100	44
----- Vertical -----										
2	31.940	46.4	10.9	6.7	32.7	31.3	40.0	8.7	100	185
3	168.710	52.8	8.6	7.8	32.6	36.6	43.5	6.9	100	282
4	256.980	47.0	12.3	8.4	32.6	35.1	46.0	10.9	100	359
5	270.560	48.2	12.6	8.5	32.5	36.8	46.0	9.2	100	359
6	280.260	47.2	12.8	8.5	32.5	36.0	46.0	10	100	359

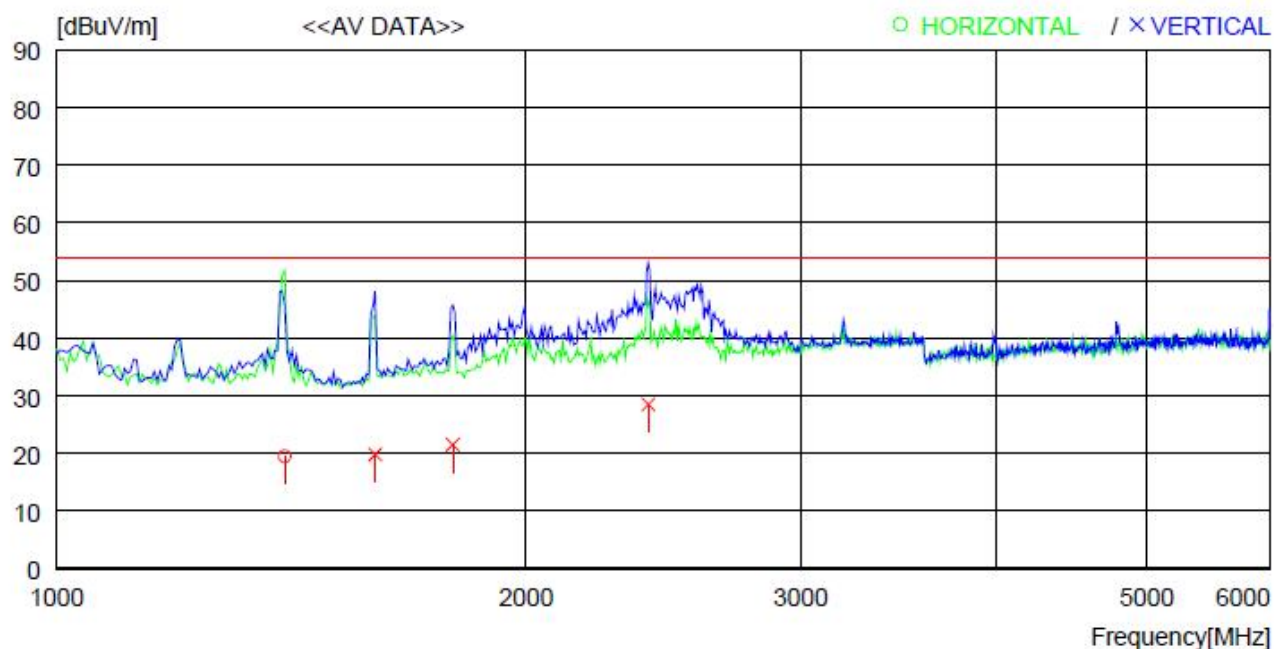
Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Peak)



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1400.000	57.2	25.0	3.1	33.5	51.8	74.0	22.2	100	296
----- Vertical -----										
2	1600.000	52.0	26.6	3.3	33.8	48.1	74.0	25.9	100	0
3	1795.000	49.1	26.8	3.5	33.7	45.7	74.0	28.3	100	337
4	2395.000	54.0	28.8	4.1	33.8	53.1	74.0	20.9	100	0

Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Average)

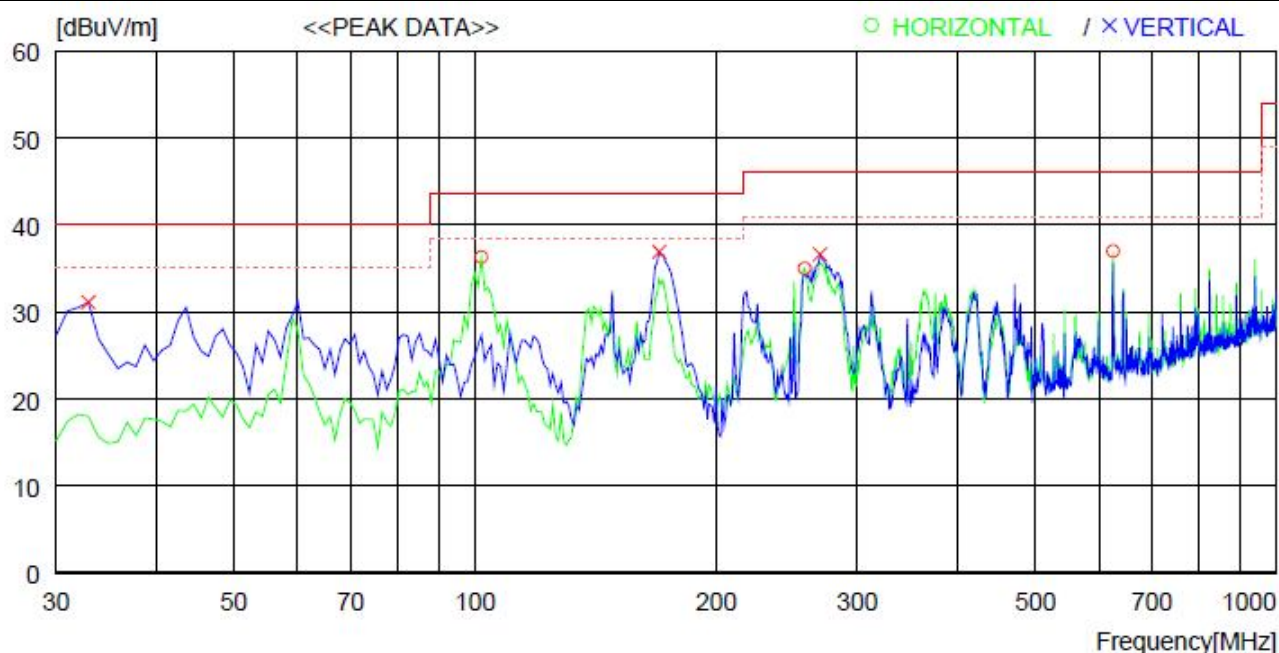


Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1400.000	24.9	25.0	3.1	33.5	19.5	54.0	34.5	100	300
----- Vertical -----										
2	1600.000	23.7	26.6	3.3	33.8	19.8	54.0	34.2	100	0
3	1795.000	24.9	26.8	3.5	33.7	21.5	54.0	32.5	100	340
4	2395.000	29.4	28.8	4.1	33.8	28.5	54.0	25.5	100	330

3.2.6.3 Test Mode: Mode #3

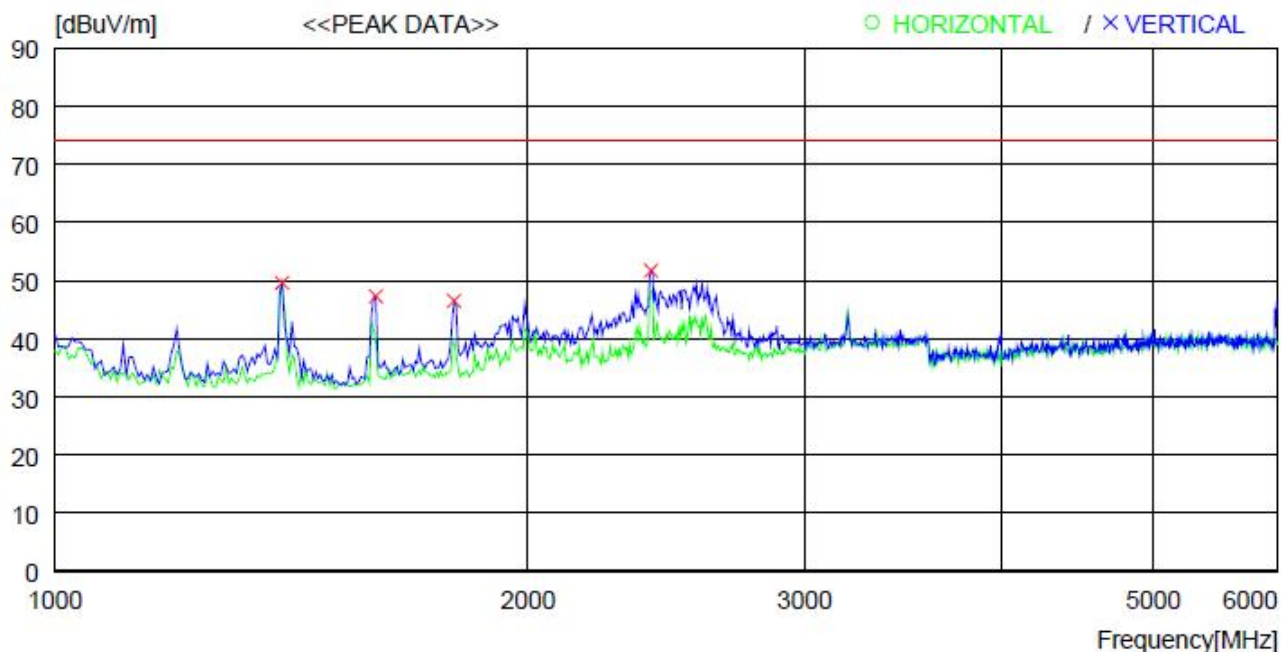
Graphical Test Data for Radiated Emission_Below 1 000 MHz



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	101.780	50.5	11.2	7.3	32.7	36.3	43.5	7.2	200	0
2	257.950	46.9	12.3	8.4	32.6	35.0	46.0	11	100	359
3	625.577	40.8	19.0	10.1	32.9	37.0	46.0	9	100	147
----- Vertical -----										
4	32.910	46.1	11.0	6.7	32.7	31.1	40.0	8.9	100	359
5	169.680	53.0	8.7	7.8	32.6	36.9	43.5	6.6	100	298
6	269.590	48.1	12.6	8.5	32.6	36.6	46.0	9.4	100	225

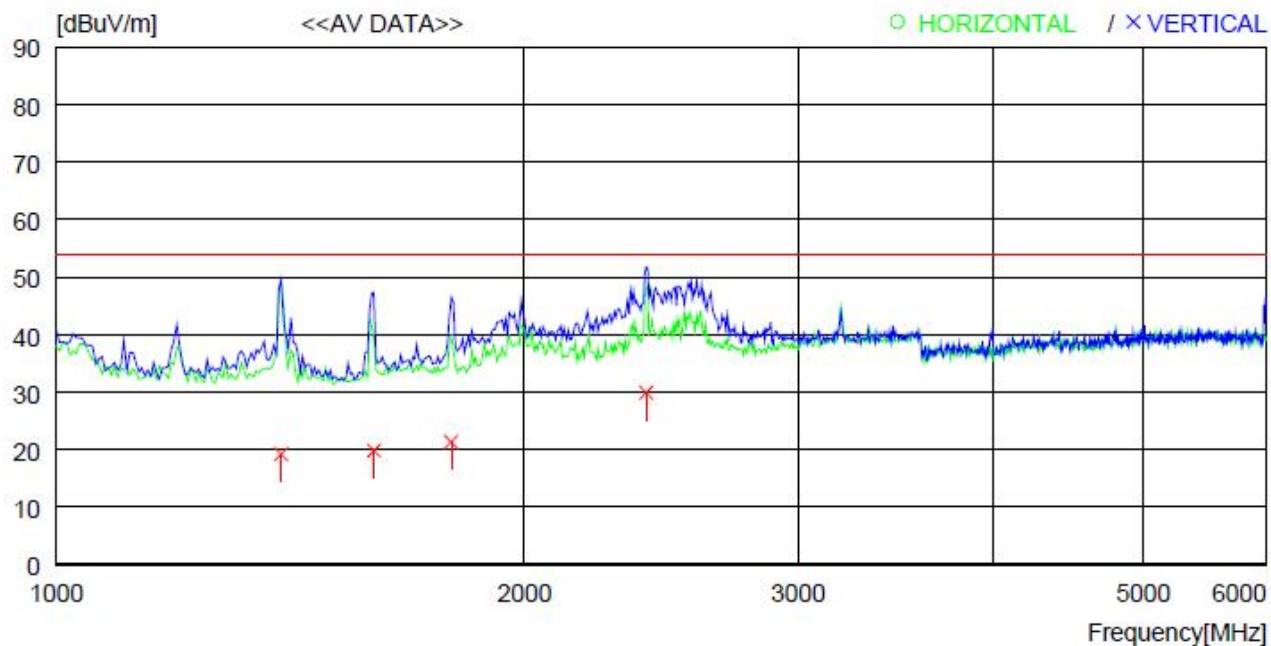
Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Peak)



Tabulated Test Data for Radiated Emission

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Vertical -----										
1	1395.000	55.0	25.0	3.1	33.5	49.6	74.0	24.4	100	359
2	1600.000	51.2	26.6	3.3	33.8	47.3	74.0	26.7	100	294
3	1795.000	49.9	26.8	3.5	33.7	46.5	74.0	27.5	100	310
4	2395.000	52.6	28.8	4.1	33.8	51.7	74.0	22.3	100	359

Graphical Test Data for Radiated Emission_ Above 1 000 MHz(Average)



Tabulated Test Data for Radiated Emission

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	AV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Vertical -----										
1	1395.000	24.6	25.0	3.1	33.5	19.2	54.0	34.8	100	360
2	1600.000	23.7	26.6	3.3	33.8	19.8	54.0	34.2	100	360
3	1795.000	24.7	26.8	3.5	33.7	21.3	54.0	32.7	100	310
4	2395.000	30.8	28.8	4.1	33.8	29.9	54.0	24.1	100	350