

FCC 15B Test Report

FCC ID: 2AACU-PD20

Computing Device Peripheral

Report No. : TB-FCC136988

Applicant : ShenZhen Link-Create Technology Co., Ltd.

Equipment Under Test (EUT)

EUT Name : MID

Model No. : PD20

Serial No. : PD10-PD100, PD200-PD900, PA10-PA100, PX1-PA100, PM10-PM100, PW10-PW100, AP10-AP100, SP1-SP100, SX1-SX100, PH10-PH100

Brand Name : freeland

Receipt Date : 2013-05-08

Test Date : 2013-05-09 to 2013-05-24

Issue Date : 2013-06-17

Standards : FCC Part 15: 2011, Subpart B, Class B

Test Method : ANSI C63.4-2003

Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer : 

Approved& Authorized : 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information about EUT

1.1 Client Information

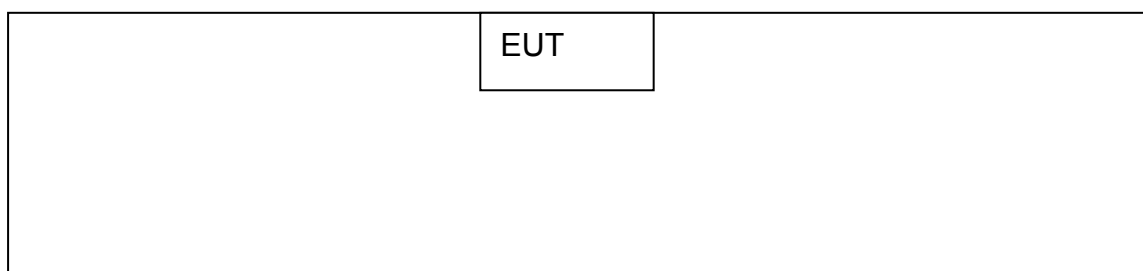
Applicant	:	ShenZhen Link-Create Technology Co., Ltd.
Address	:	6/F., 17 Building, Pingshan Industrial Park, Taoyuan Street, Nanshan, Shenzhen, China
Applicant	:	ShenZhen Link-Create Technology Co., Ltd.
Address	:	6/F., 17 Building, Pingshan Industrial Park, Taoyuan Street, Nanshan, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

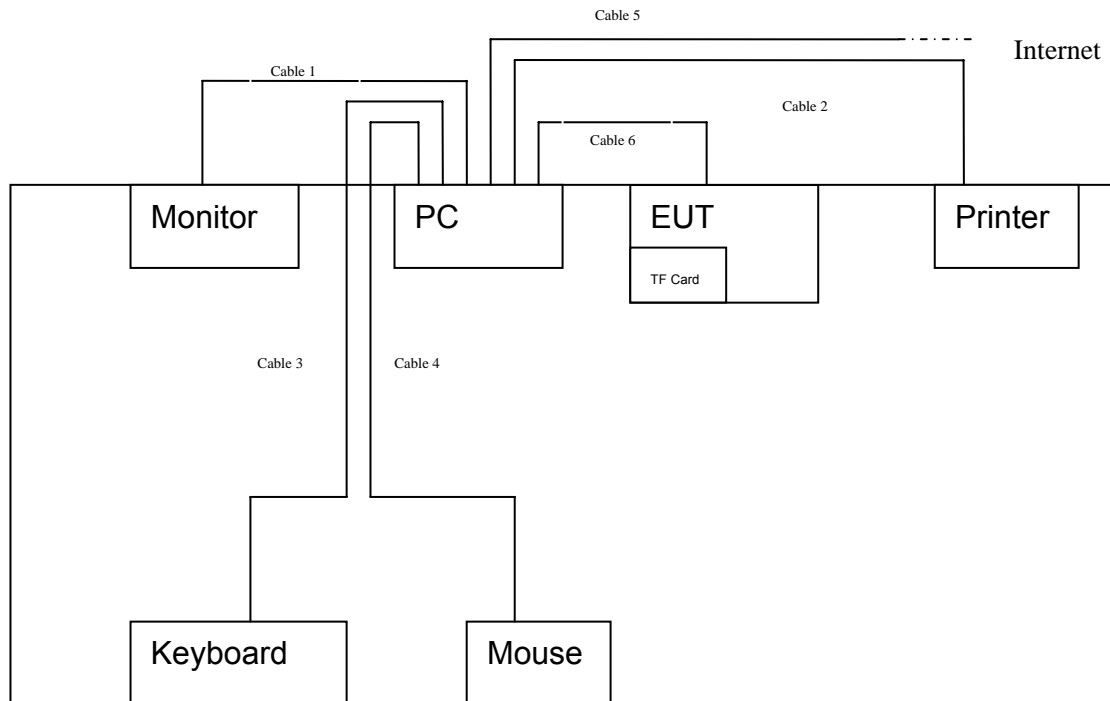
EUT Name	:	MID
Model No.	:	PD20, PD10-PD100, PD200-PD900, PA10-PA100, PX1-PA100, PM10-PM100, PW10-PW100, AP10-AP100, SP1-SP100, SX1-SX100, PH10-PH100
Model difference	:	The different models are identical in schematic, structure and critical component, the only different is the appearance.
Power Supply	:	DC power by AC/DC Adapter. USB DC power from Hostsystem. DC Voltage supplied from Li-Polymer battery.
Power Rating	:	AC/DC Adapter Input: 100~240V 50/60 Hz 0.2A Output: DC 5V 2A DC 3.7V 3000mAh from Li-Polymer battery
Connecting I/O Port(s)	:	The equipent have USB port for link with PC, so the equipment is considered as a Computing Device Peripheral.
Note: The equipment have WiFi (802.11b/g/n) mode, WiFi part have test comply with FCC Part 15C Rules. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3 Block Diagram Showing the Configuration of System Tested

Mode 1: AC Charging and WiFi Link

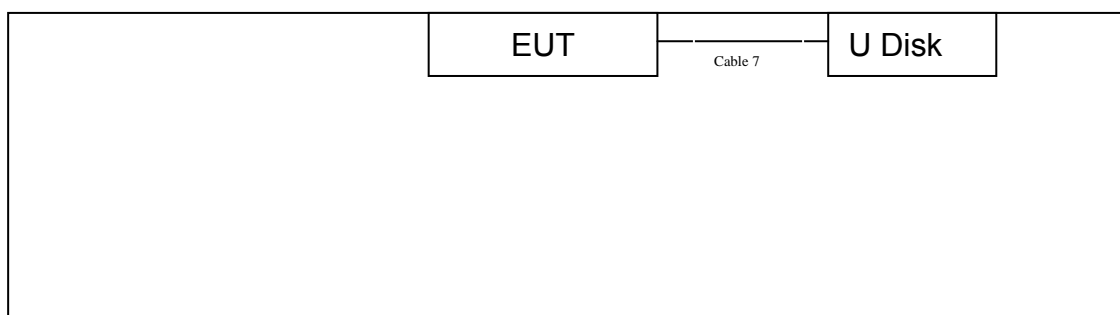


Mode 2 /3: Charging and Loading Data with PC

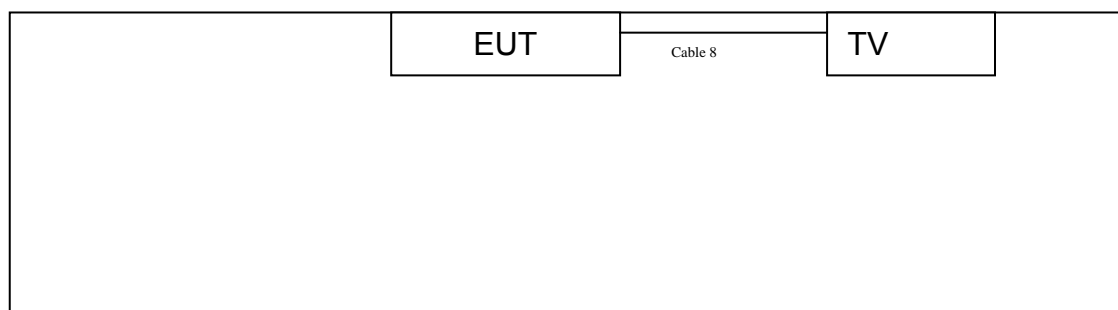


Note: During Testing the EUT is charging and loading data form PC with USB Cable.

Mode 4: AC Charging and USB Loading Data with U Disk



Mode 5: HDMI Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Printer	HP1505n	VNF3G06957	HP	√
LCD Monitor	E170Sc	----	DELL	√
PC	OPTIPLEX380	----	DELL	√
Keyboard	L100	U01C	DELL	√
Mouse	M-UARDEL7	----	DELL	√
TF Card	1GB	----	Kingston	√
U Disk	1GB	----	SSK	√
TV	LC24F566DC	----	KONKA	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	YES(2)	1.8M	
Cable 2	YES	YES(1)	2.0M	
Cable 3	YES	NO	1.5M	
Cable 4	YES	NO	1.5M	
Cable 5	YES	NO		
Cable 6	NO	NO	0.7M	Accessories
Cable 7	NO	NO	0.1M	Accessories
Cable 8	YES	NO	1.8M	

1.5 Description of Test Mode

Mode	Description
Mode 1	AC Charging and WiFi Link
Mode 2	USB Charging and Loading Data with PC
Mode 3	AC Charging and Loading Data with PC
Mode 4	AC Charging and USB Loading Data with U Disk
Mode 5	HDMI Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of the EUT operation mode,

and the maximum emission levels of the conducted and radiated emissions are compared to the FCC Part 15 Subpart B (Class B) limits.

Note: The test results for EUT's RF functions are contained in another Certification Report.

1.6 Test Facility

The tests were performed at:

Bontek Compliance Testing Laboratory Ltd

1/F., Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, 518055 China

Tel: 86-755-86337020 Fax: 86-755-86337028

At the time of testing, the Laboratory is accredited. It is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 338263.

The test report was fulfilled by Shenzhen Toby Technology Co., Ltd. Shenzhen Toby Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements results.

2. Test Summary

FCC Part15, Subpart B				
Section	Test Method	Test Item	Limit	Judgment
15.109	ANSI C63.4:2003	Radiated Emission (30M~1GHz)	Class B	PASS
15.107	ANSI C63.4:2003	Conducted Emission (9KHz to 30MHz)	Class B	PASS
Note: N/A is an abbreviation for Not Applicable.				

3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1 Test Standard
FCC Part 15.107

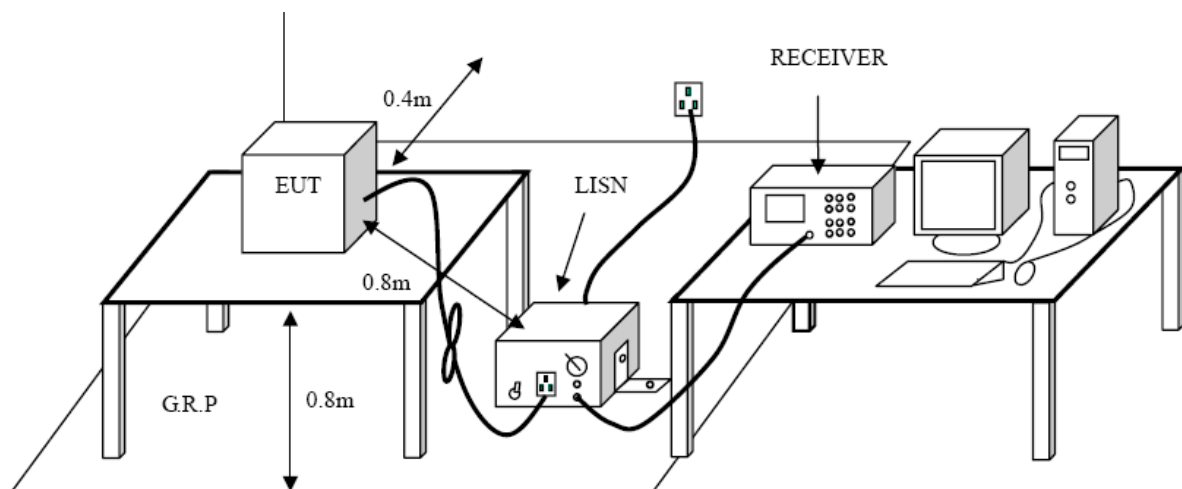
3.1.2 Test Limit

Conducted Emission Test Limit

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak Level	Average Level
0.15~0.5	66 ~ 56 *	56 ~ 46 *
0.5~5.0	56.00	46.00
5.0~30.0	60.00	50.00

Notes: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequencies.

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance.

The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

For the actual test configuration, please refer to the EUT test Photos.

3.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
EMI Test Receiver	ROHDE& SCHWARZ	ESC30	DE25181	2012-08-07	2013-08-06
50ΩCoaxial Switch	Anritsu	MP59B	X10321	2012-08-07	2013-08-06
L.I.S.N	EMCO	3624/1	00063417	2012-08-07	2013-08-06
L.I.S.N	EMCO	3624/1	00063417	2012-08-07	2013-08-06

3.5 EUT Operating Mode

(1) Setup the EUT and peripherals refer to the description of test mode.

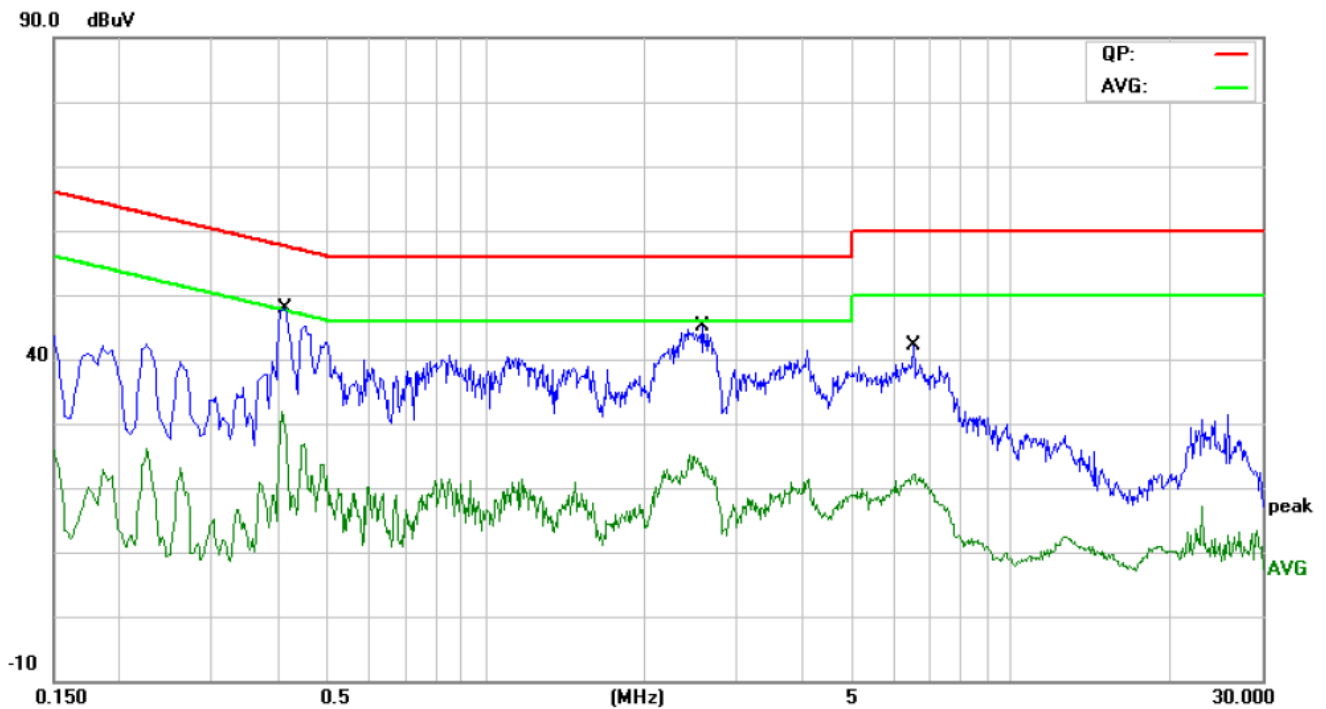
3.6 Deviation

The test is no deviation from the standard.

3.7 Test Data

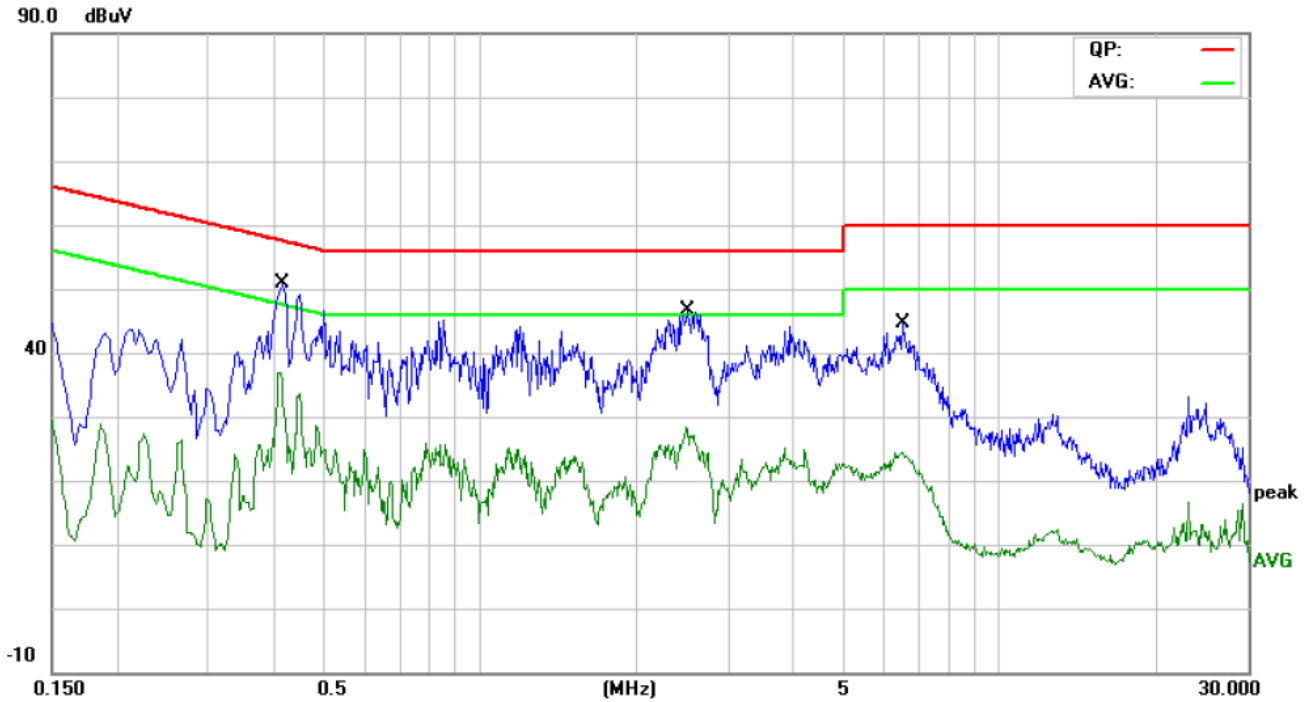
Please see the next page.

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Line		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 1		



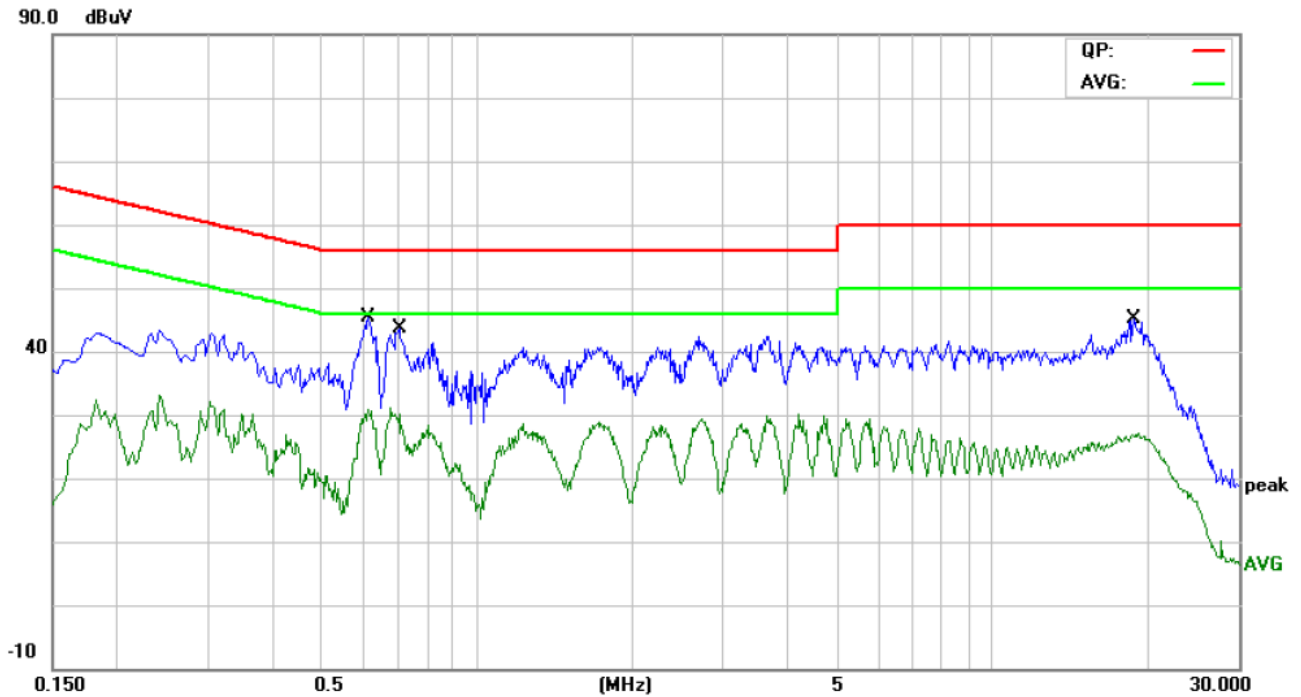
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4140	35.73	9.60	45.33	57.57	-12.24	QP	
2		0.4140	17.94	9.60	27.54	47.57	-20.03	AVG	
3		2.5900	29.98	9.36	39.34	56.00	-16.66	QP	
4		2.5900	13.57	9.36	22.93	46.00	-23.07	AVG	
5		6.5060	23.44	9.81	33.25	60.00	-26.75	QP	
6		6.5060	11.05	9.81	20.86	50.00	-29.14	AVG	

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Neutral		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 1		



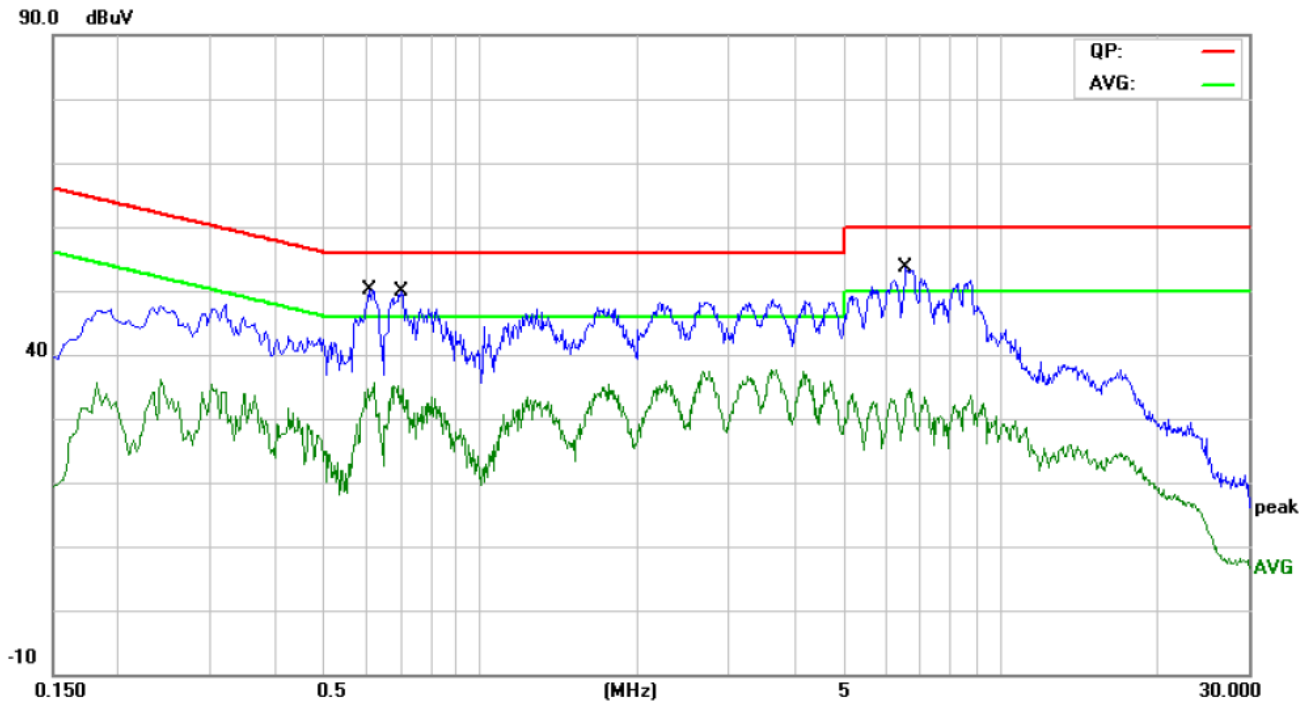
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4180	35.42	9.62	45.04	57.49	-12.45	QP	
2		0.4180	19.38	9.62	29.00	47.49	-18.49	AVG	
3		2.5020	30.49	9.39	39.88	56.00	-16.12	QP	
4		2.5020	17.27	9.39	26.66	46.00	-19.34	AVG	
5		6.4940	23.66	9.83	33.49	60.00	-26.51	QP	
6		6.4940	12.10	9.83	21.93	50.00	-28.07	AVG	

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Line		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 2		



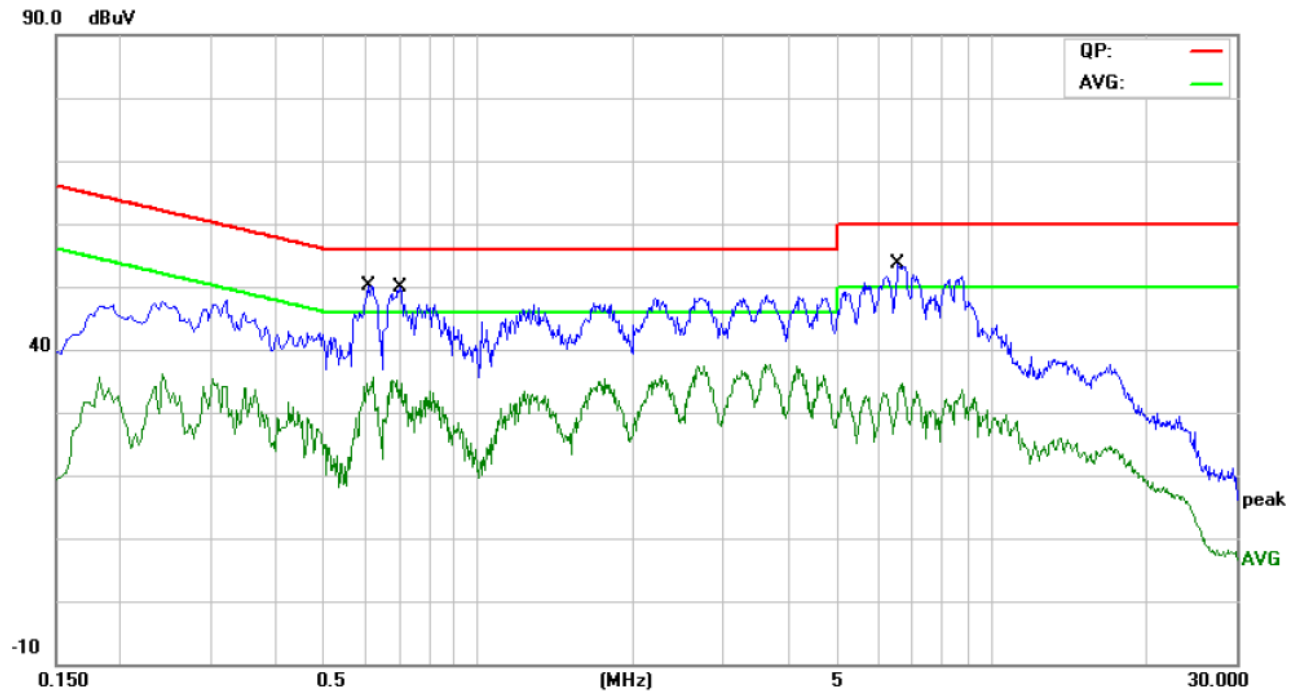
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.6140	31.35	9.43	40.78	56.00	-15.22	QP	
2		0.6140	20.77	9.43	30.20	46.00	-15.80	AVG	
3		0.7060	29.37	9.46	38.83	56.00	-17.17	QP	
4		0.7060	19.10	9.46	28.56	46.00	-17.44	AVG	
5		18.7979	26.86	10.16	37.02	60.00	-22.98	QP	
6		18.7979	12.06	10.16	22.22	50.00	-27.78	AVG	

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Neutral		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 2		



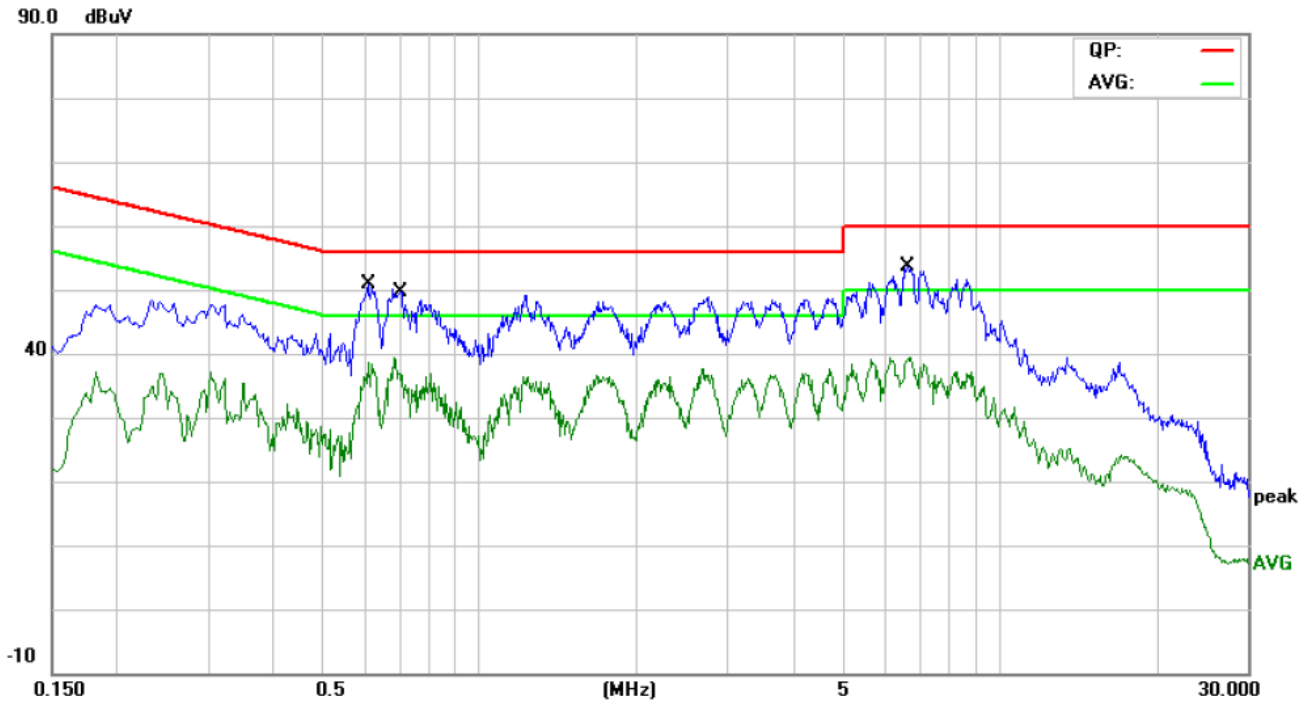
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.6100	37.51	9.43	46.94	56.00	-9.06	QP	
2		0.6100	26.90	9.43	36.33	46.00	-9.67	AVG	
3		0.7019	36.83	9.46	46.29	56.00	-9.71	QP	
4		0.7019	26.36	9.46	35.82	46.00	-10.18	AVG	
5		6.5900	36.86	9.84	46.70	60.00	-13.30	QP	
6		6.5900	25.56	9.84	35.40	50.00	-14.60	AVG	

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Line		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.6100	37.51	9.43	46.94	56.00	-9.06	QP	
2		0.6100	26.90	9.43	36.33	46.00	-9.67	AVG	
3		0.7019	36.83	9.46	46.29	56.00	-9.71	QP	
4		0.7019	26.36	9.46	35.82	46.00	-10.18	AVG	
5		6.5900	36.86	9.84	46.70	60.00	-13.30	QP	
6		6.5900	25.56	9.84	35.40	50.00	-14.60	AVG	

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Neutral		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.6100	37.31	9.43	46.74	56.00	-9.26	QP	
2		0.6100	24.72	9.43	34.15	46.00	-11.85	AVG	
3		0.7019	35.93	9.46	45.39	56.00	-10.61	QP	
4		0.7019	23.19	9.46	32.65	46.00	-13.35	AVG	
5		6.6340	38.58	9.84	48.42	60.00	-11.58	QP	
6		6.6340	23.78	9.84	33.62	50.00	-16.38	AVG	

4. Radiated Emission Test

4.1 Test Standard and Limit

- 4.1.1 Test Standard
FCC Part 15.109
4.1.2 Test Limit

Radiated Emission Limit

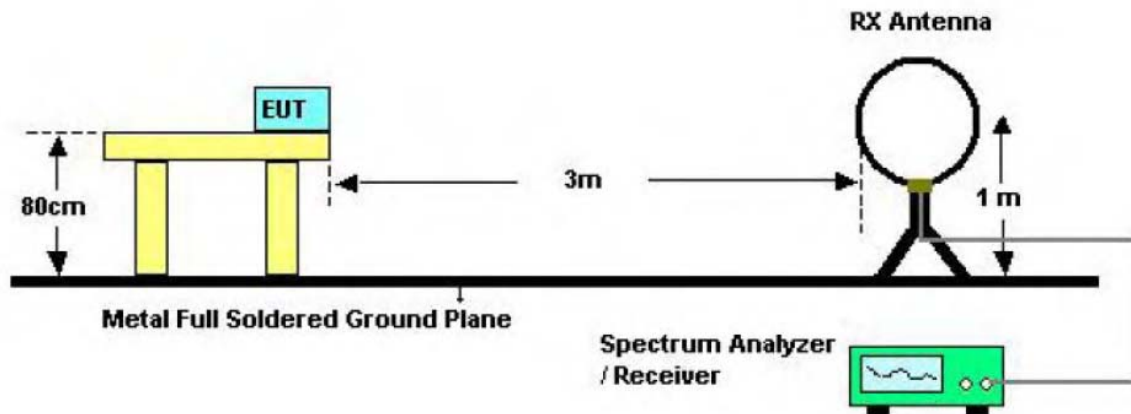
Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (meters)
30~88	40	3
88~216	43.5	3
216~960	46	3
Above 960	54	3
Note: Emission Level(dBuV/m)=20log Emission Level(uV/m)		

For unintentional radiators (FCC Part 15, section 15.33(1)):

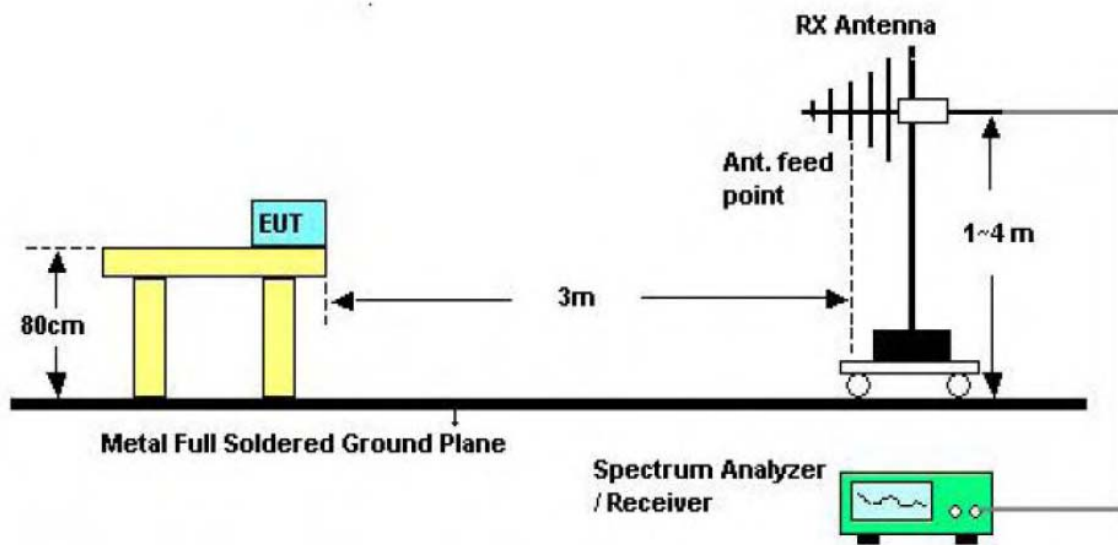
Except as otherwise indicated in paragraphs (b)(2) or (b)(3), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705~108	1000
108~500	2000
500~1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

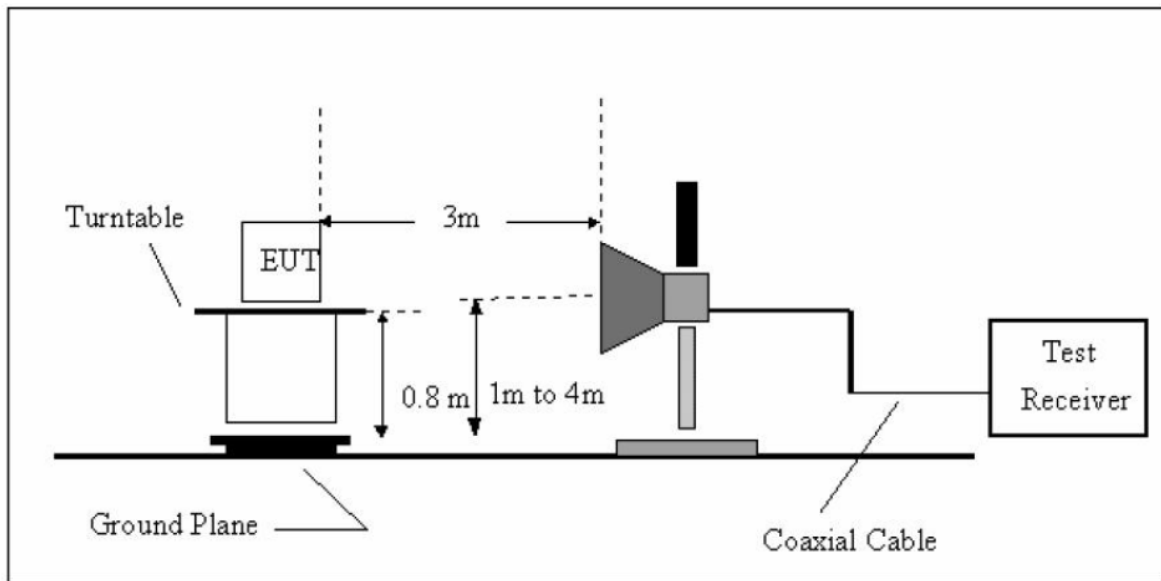
4.2 Test Setup



Bellow 30MHz Test Setup



30MHz to 1000MHz Test Setup



Above 1GHz Test Setup

4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency from 30MHz up to 1GHz.
- (2) The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The height of the equipment or of the substitution antenna shall be 0.8m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- (4) The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- (6) For more details, please refer to the EUT Test Photos.

4.4 Test Equipment

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
Spectrum Analyzer	Agilent	E7405A	MY45114970	2012-08-07	2013-08-06
Pre-Amplifier	CD	PAM0203	804203	2012-08-07	2013-08-06
RF Switch	CD	RSU-M3	RSU-M3	2012-07-13	2013-07-12
Trilog Broadband	SCHWARZBECK	VULB9163	345	2012-07-13	2013-07-12

Antenna					
Coaxial Cable	SCHWARZBECK	RG214-N-8	11065	2012-08-07	2013-08-06
Broadband Preamplifier 0.5-18GHz	SCHWARZBECK	BBV9718	9718-148	2012-08-07	2013-08-06
Horn Antenna	SCHWARZBECK	BBHA9120 D	667	2012-08-07	2013-08-06
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	2012-08-07	2013-08-06
Coaxial Cable	SCHWARZBECK	AK9515H	9515-10	2012-08-07	2013-08-06

4.5 EUT Operating Condition

(1) Setup the EUT and peripherals refer to the description of test mode.

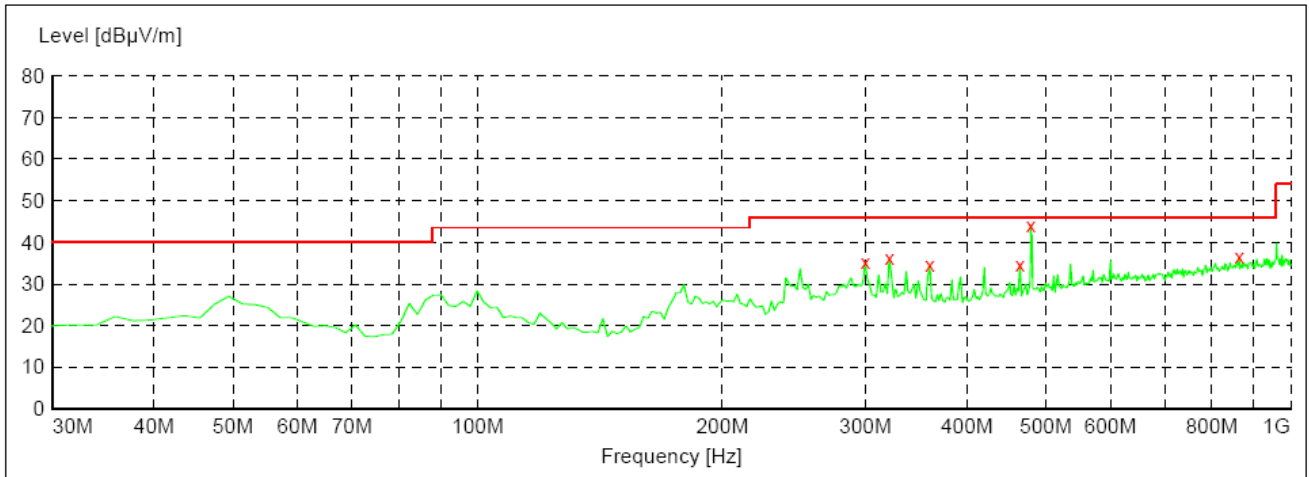
4.6 Deviation

The test is no deviation from the standard.

4.7 Test Data

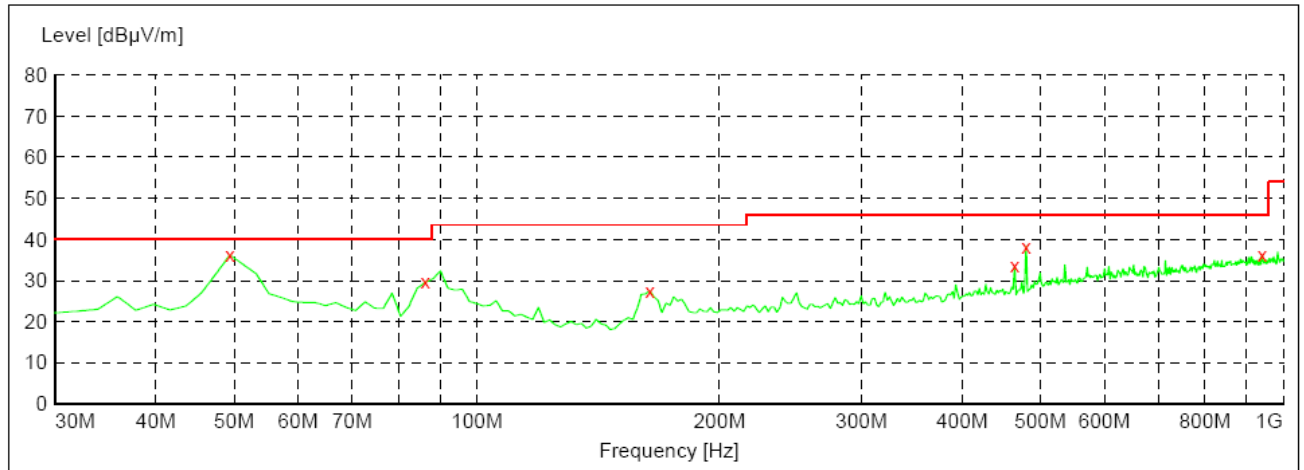
(1) Bellow 1GHz

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Horizontal		
Test Mode :	Mode 1		



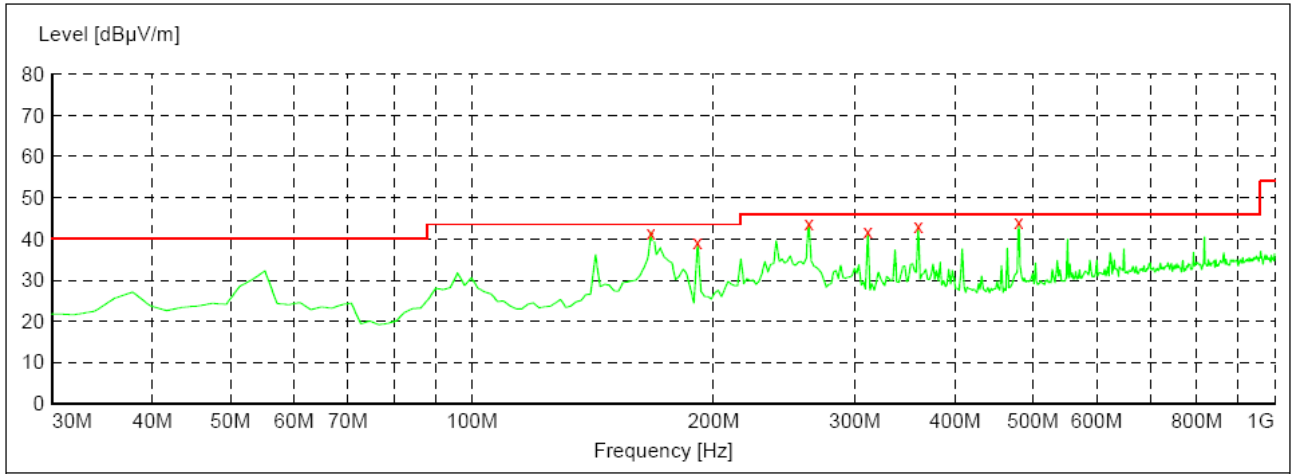
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
299.660000	35.20	18.7	46.0	10.8	---	100.0	0.00	HORIZONTAL
321.000000	36.40	19.2	46.0	9.6	---	100.0	0.00	HORIZONTAL
359.800000	34.70	20.6	46.0	11.3	---	100.0	0.00	HORIZONTAL
464.560000	34.70	22.5	46.0	11.3	---	100.0	0.00	HORIZONTAL
480.080000	44.30	23.1	46.0	1.7	---	100.0	0.00	HORIZONTAL
864.200000	36.50	28.8	46.0	9.5	---	100.0	0.00	HORIZONTAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	Mode 1		



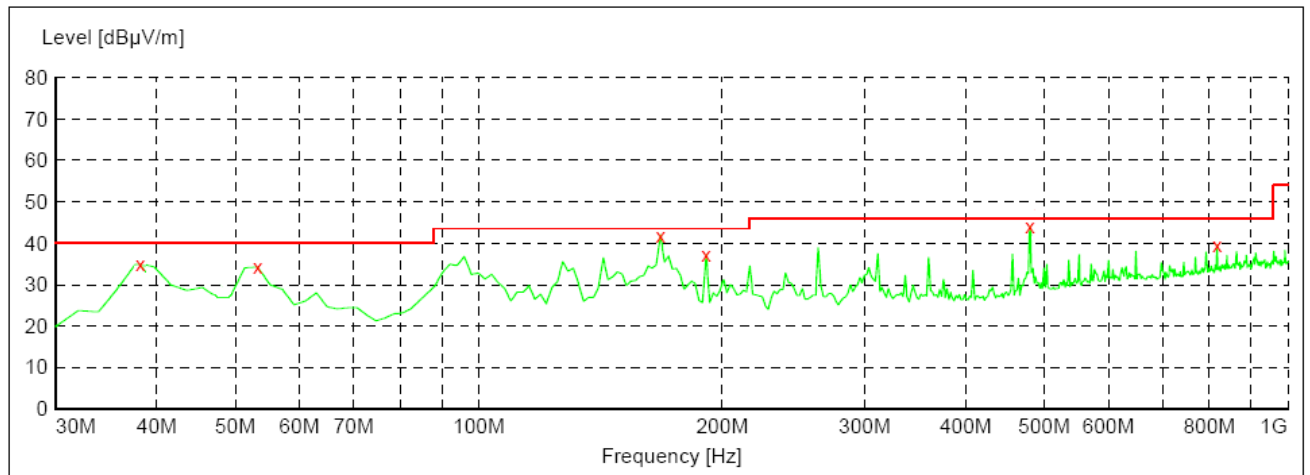
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	36.20	15.8	40.0	3.8	---	100.0	0.00	VERTICAL
86.260000	29.60	14.8	40.0	10.4	---	100.0	0.00	VERTICAL
163.860000	27.50	12.9	43.5	16.0	---	100.0	0.00	VERTICAL
464.560000	33.50	22.5	46.0	12.5	---	100.0	0.00	VERTICAL
480.080000	38.40	23.1	46.0	7.6	---	100.0	0.00	VERTICAL
941.800000	36.20	29.5	46.0	9.8	---	100.0	0.00	VERTICAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Horizontal		
Test Mode :	Mode 2		



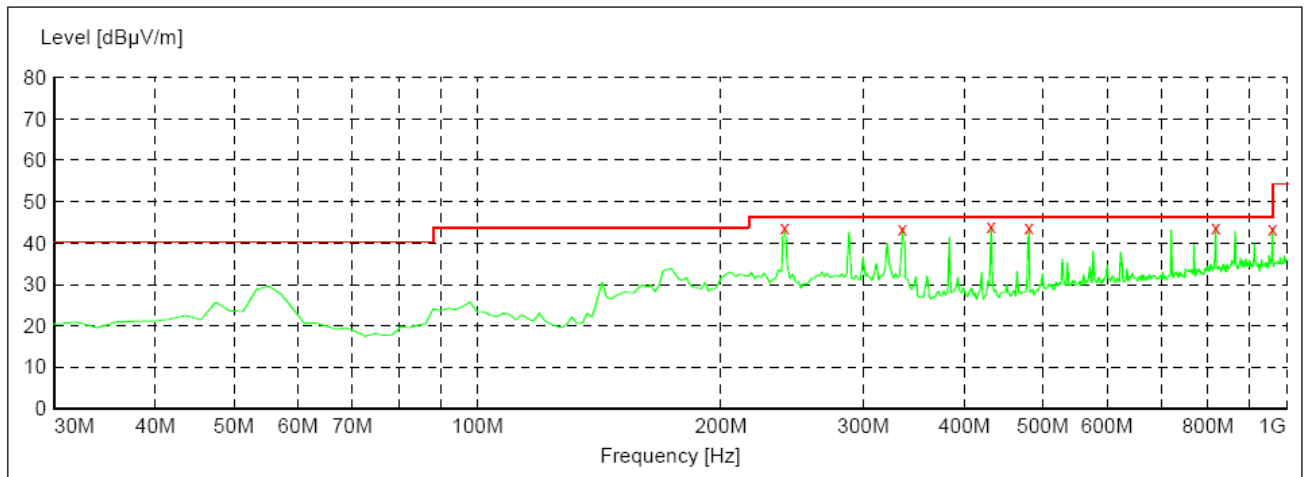
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
167.740000	40.90	13.0	43.5	2.6	---	100.0	0.00	HORIZONTAL
191.020000	39.30	14.8	43.5	4.2	---	100.0	0.00	HORIZONTAL
262.800000	43.90	17.5	46.0	2.1	---	100.0	0.00	HORIZONTAL
311.300000	41.80	19.0	46.0	4.2	---	100.0	0.00	HORIZONTAL
359.800000	43.20	20.6	46.0	2.8	---	100.0	0.00	HORIZONTAL
480.080000	43.30	23.1	46.0	2.7	---	100.0	0.00	HORIZONTAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	Mode 2		



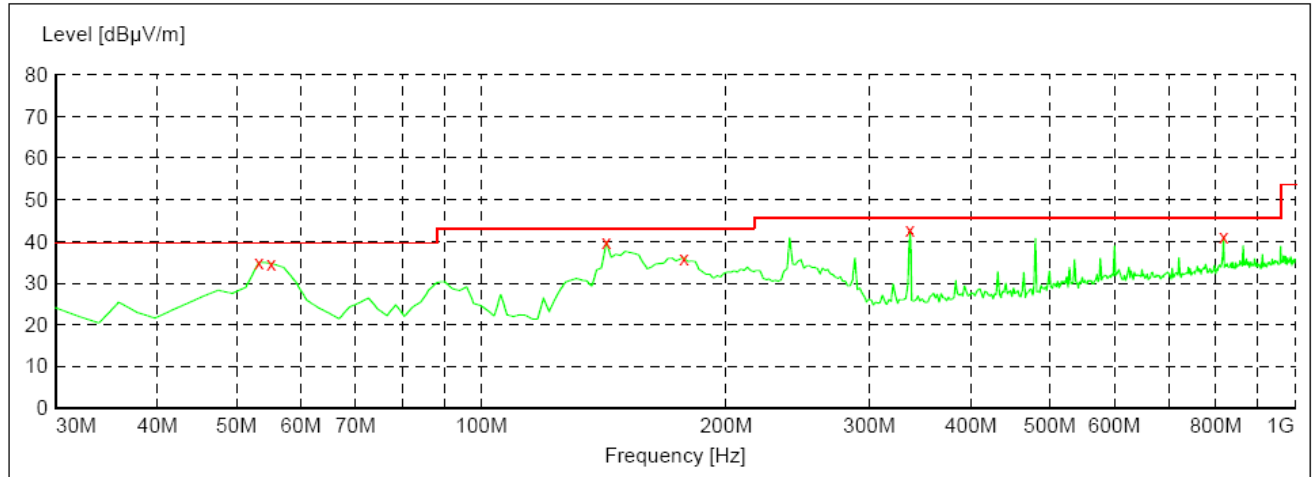
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
37.760000	35.50	15.2	40.0	4.5	---	100.0	0.00	VERTICAL
53.280000	34.30	15.7	40.0	5.7	---	100.0	0.00	VERTICAL
167.740000	42.00	13.0	43.5	1.5	---	100.0	0.00	VERTICAL
191.020000	37.30	14.8	43.5	6.2	---	100.0	0.00	VERTICAL
480.080000	43.30	23.1	46.0	2.7	---	100.0	0.00	VERTICAL
817.640000	39.60	28.2	46.0	6.4	---	100.0	0.00	VERTICAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Horizontal		
Test Mode :	Mode 3: SD Card and U Disk Loading Data		



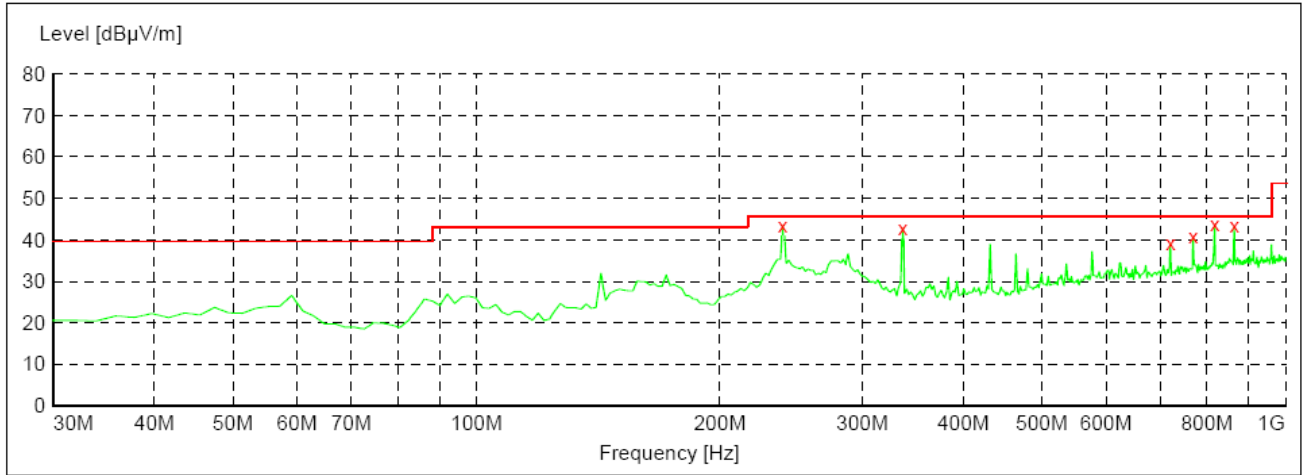
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
239.520000	43.50	16.9	46.0	2.5	---	100.0	0.00	HORIZONTAL
336.520000	43.20	20.0	46.0	2.8	---	100.0	0.00	HORIZONTAL
431.580000	44.10	22.0	46.0	1.9	---	100.0	0.00	HORIZONTAL
480.080000	43.70	23.1	46.0	2.3	---	100.0	0.00	HORIZONTAL
817.640000	43.80	28.2	46.0	2.2	---	100.0	0.00	HORIZONTAL
961.200000	43.60	29.6	46.0	2.4	---	100.0	0.00	HORIZONTAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	Mode 3: SD Card and U Disk Loading Data		



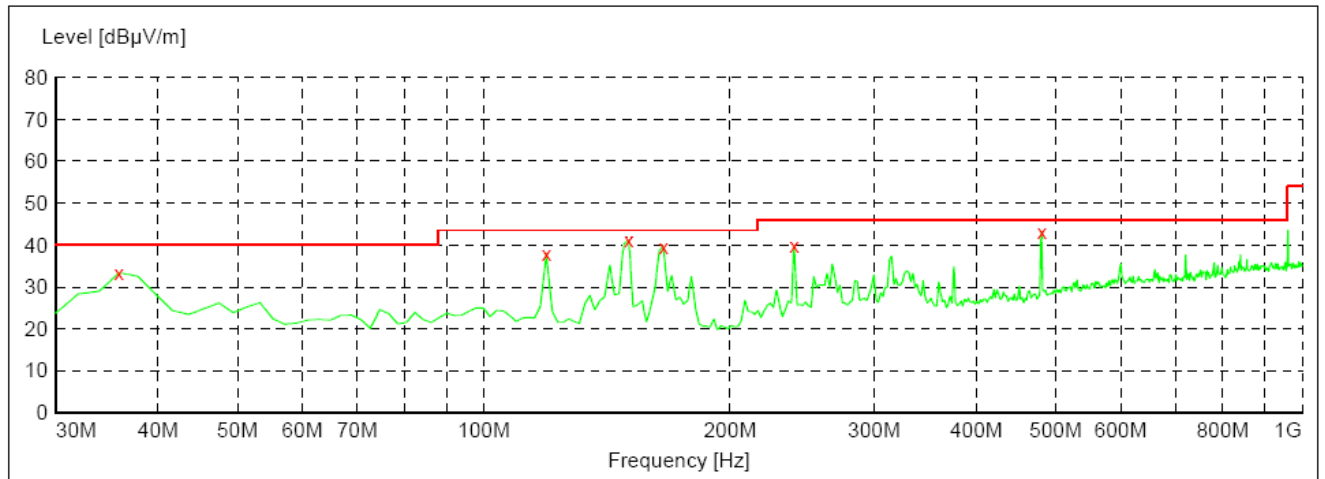
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000	35.00	15.7	40.0	5.0	---	100.0	0.00	VERTICAL
55.220000	34.70	15.6	40.0	5.3	---	100.0	0.00	VERTICAL
142.520000	39.90	12.3	43.5	3.6	---	100.0	0.00	VERTICAL
177.440000	36.10	13.7	43.5	7.4	---	100.0	0.00	VERTICAL
336.520000	43.30	20.0	46.0	2.7	---	100.0	0.00	VERTICAL
817.640000	41.20	28.2	46.0	4.8	---	100.0	0.00	VERTICAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Horizontal		
Test Mode :	Mode 4: TF Card and U Disk Loading Data		



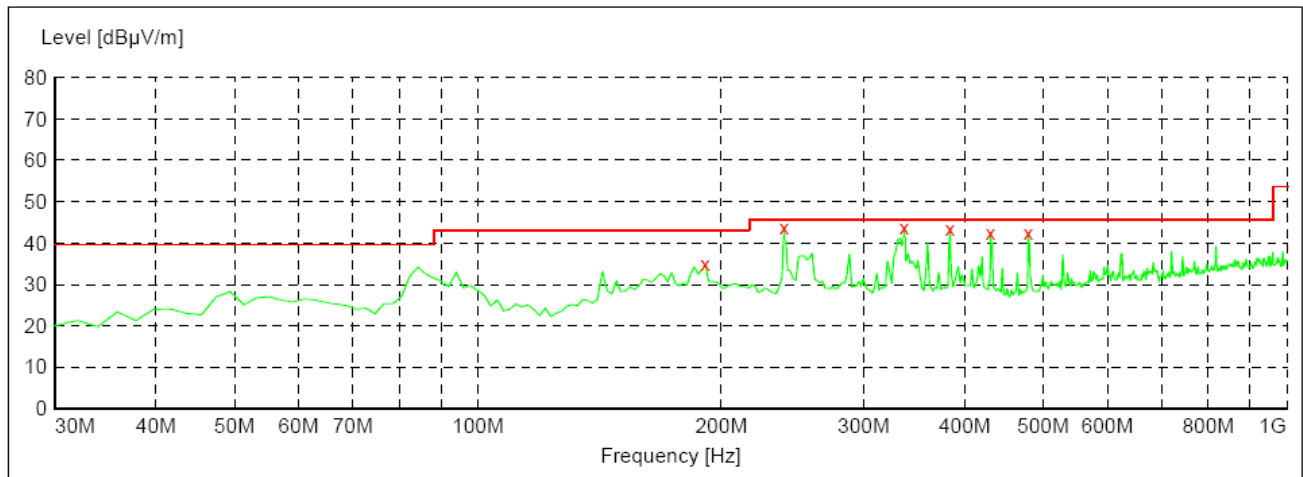
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
239.520000	43.70	16.9	46.0	2.3	---	100.0	0.00	HORIZONTAL
336.520000	43.60	20.0	46.0	2.4	---	100.0	0.00	HORIZONTAL
720.640000	39.20	26.8	46.0	6.8	---	100.0	0.00	HORIZONTAL
769.140000	40.70	27.5	46.0	5.3	---	100.0	0.00	HORIZONTAL
817.640000	43.70	28.2	46.0	2.3	---	100.0	0.00	HORIZONTAL
864.200000	43.30	28.8	46.0	2.7	---	100.0	0.00	HORIZONTAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	Mode 4: TF Card and U Disk Loading Data		



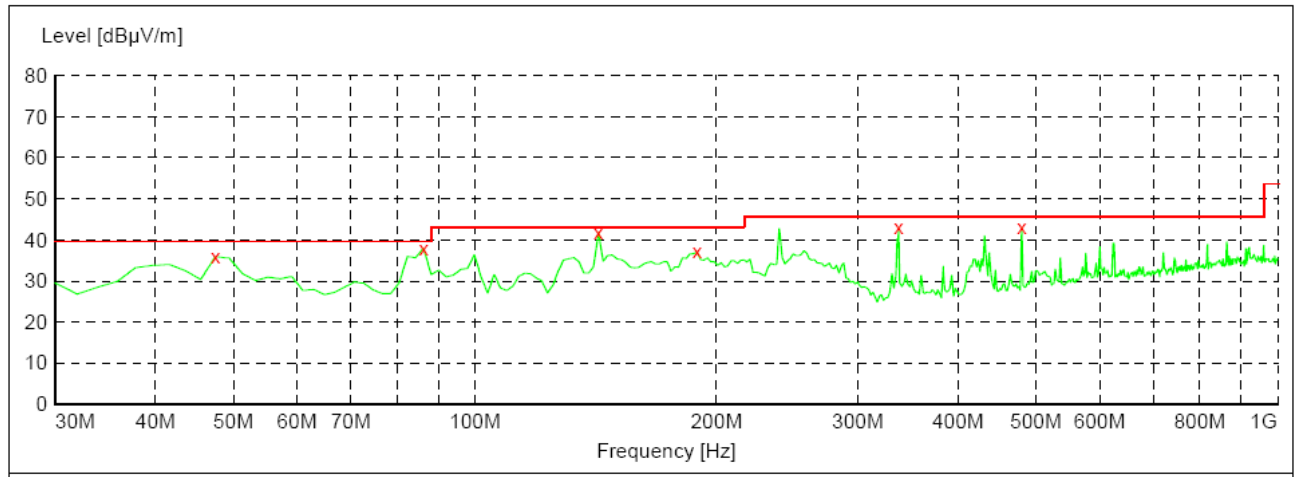
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
88.200000	33.30	15.5	43.5	10.2	---	100.0	0.00	VERTICAL
158.040000	33.60	12.7	43.5	9.9	---	100.0	0.00	VERTICAL
175.500000	33.80	13.5	43.5	9.7	---	100.0	0.00	VERTICAL
239.520000	42.40	16.9	46.0	3.6	---	100.0	0.00	VERTICAL
336.520000	39.40	20.0	46.0	6.6	---	100.0	0.00	VERTICAL
864.200000	40.70	28.8	46.0	5.3	---	100.0	0.00	VERTICAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Horizontal		
Test Mode :	Mode 5		



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
191.020000	34.90	14.8	43.5	8.6	---	100.0	0.00	HORIZONTAL
239.520000	43.70	16.9	46.0	2.3	---	100.0	0.00	HORIZONTAL
336.520000	43.50	20.0	46.0	2.5	---	100.0	0.00	HORIZONTAL
383.080000	43.60	21.0	46.0	2.4	---	100.0	0.00	HORIZONTAL
431.580000	42.50	22.0	46.0	3.5	---	100.0	0.00	HORIZONTAL
480.080000	43.20	23.1	46.0	2.8	---	100.0	0.00	HORIZONTAL

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	Mode 5		



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	35.90	15.8	40.0	4.1	---	100.0	0.00	VERTICAL
86.260000	38.00	14.8	40.0	2.0	---	100.0	0.00	VERTICAL
142.520000	41.90	12.3	43.5	1.6	---	100.0	0.00	VERTICAL
189.080000	37.10	14.7	43.5	6.4	---	100.0	0.00	VERTICAL
336.520000	43.30	20.0	46.0	2.7	---	100.0	0.00	VERTICAL
480.080000	43.00	23.1	46.0	3.0	---	100.0	0.00	VERTICAL

(2) Above 1GHz

E.U.T :	MID	Model Name :	PD20
Temperature :	26°C	Relative Humidity :	51 %
Test Voltage :	AC 120 V / 60Hz		
Antenna. Pol:	Vertical		
Test Mode :	WiFi RX Mode		

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBUV/m)		Limit3m (dBUV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
1736.500	V	46.39	41.57	74.00	54.00	27.61	12.43
3346.000	V	45.12	40.29	74.00	54.00	28.88	13.71
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
--	V	--	--	74.00	54.00	--	--
1736.500	H	44.40	39.62	74.00	54.00	29.60	14.38
3346.000	H	43.49	38.27	74.00	54.00	30.51	15.73
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--
--	H	--	--	74.00	54.00	--	--