

FCC TEST REPORT

Reference No. : G-45-2012-01141

Applicant : HUMAX CO., LTD.

Equipment Under Test (EUT) :

Product Name : IP-set top BOX

Model Name : GFHD100

Applied Standards : FCC Part 15 : 2010, Subpart B, Class B

ANSI C63.4 : 2003

CISPR 22 : 2008

Date of Receipt : April 20, 2012

Date of Test : April 24, 2012 ~ May 09, 2012

Date of Issue : May 23, 2012

Test Results : Complied

Tested by :



Jerry Jeong

Reviewed by :



Forest Lee

Remarks :

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1. General Information

1.1 Client Information

Applicant : HUMAX CO., LTD.
Address of Applicant : HUMAX Village, 11-4, Sunae-dong, Bundang-gu,
Seongnam-si, Gyeonggi-do, 463-875, Korea
Manufacturer : HUMAX CO., LTD.
Address of Manufacturer : HUMAX Village, 11-4, Sunae-dong, Bundang-gu,
Seongnam-si, Gyeonggi-do, 463-875, Korea

1.2 Test Laboratory

Name and Address : SGS Korea Co., Ltd. (Gunpo Laboratory)
18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea
435-040
FCC Registration No. : 367021
IC Company No. : 4620F
Phone : + 82 31 428 5700
Fax : + 82 31 427 2370
e-mail : forest.lee@sgs.com

1.3 General Information of E.U.T.

Product Name	IP-set top BOX
Model Name	GFHD100
Serial No.	-
Hardware Version	0.3
Software Version	0.3
FCC ID	O6ZGFHD100
EMI Classification	Class B
Rated Voltage	Input (100 ~ 240) Va.c., (50/60)Hz, 1.0 A Output 12 Vd.c., 3.34 A
Test Voltage	120 Va.c., 60 Hz (AC Adapter)
Highest Internal Frequency	Max. 800 MHz

1.4 Operating Modes and Conditions

Operating mode	Operating condition
Mode 1 USB Input + WLAN/BT idle	Receive signal from the USB, continuous output to the monitor.
Mode 2 LAN Input + WLAN/BT idle	Receive signal from the LAN, continuous output to the monitor.
Mode 3 HDMI Input + WLAN/BT idle	Receive signal from the HDMI, continuous output to the monitor.

1.5 Auxiliary Equipments

Description	Model	Serial No.	Manufacturer
Notebook Computer 1	PCG-3AHP	28272287 7000053	Sony Corporation
LCD Monitor	M2362DL	004KCZP02189	LG
Sensor	-	-	-
Notebook Computer 2	ProBook 6555b	CNU0245LGT	HP
LCD TV	22LU7000	-	LG
Ethernet/Coax Bridge	ECB3M-L3 MRF	4138	ENTROPIC COMMUNICATIONS
Notebook Computer 3	E8420	R8900498	FUJITSU LIMITED
USB Memory	4G	-	MemoRive

Note: Auxiliary equipments are declared according to FCC procedure.

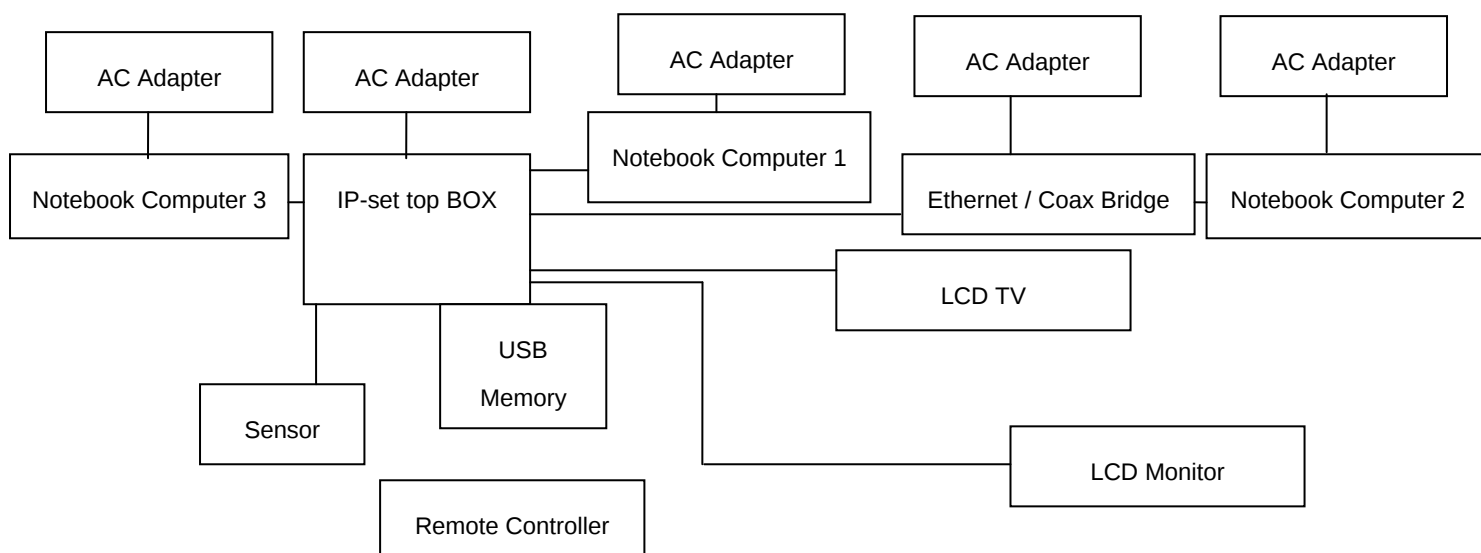
1.6 Cable List

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
IP-set top BOX	DC IN	AC Adapter	-	1.3	Unshield
	USB	USB Memory	-	-	-
	IR	Sensor	-	1.2	Unshield
	Ethernet	Notebook Computer 3	LAN	3.0	Unshield
	HDMI IN	Notebook Computer 1	HDMI	1.5	Shield
	HDMI OUT	LCD TV	HDMI	1.5	Shield
	AV OUT	LCD Monitor	Component Composite	1.5	Shield
	COAX	Ethernet / Coax Bridge	COAX	3.0	Shield
AC Adapter	AC IN	AC Source	-	1.0	Unshield
Ethernet / Coax Bridge	DC IN	AC Adapter	-	1.3	Unshield
	LAN	Notebook Computer 2	LAN	3.0	Unshield
	COAX	IP-set top BOX	COAX	3.0	Shield
AC Adapter	AC IN	AC Source	-	-	-
Notebook Computer 2	LAN	Ethernet / Coax Bridge	LAN	3.0	Unshield
	DC IN	AC Adapter	-	1.3	Unshield
AC Adapter	AC IN	AC Source	-	1.0	Unshield

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
AC Adapter	DY1233WIEU	-	DONGYANG INSTRUMENT QINGDAO INC.
Main Board	GFHD100 CPU B/D REV:0.3	PC202009900109	-
Wireless Module	SWB-B70 rev 0.6	BPKRAA-C02000148	SAMSUNG
Remote Controller	-	-	-

1.8 Test System Layout



1.9 Modifications

There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15 : 2010, Subpart B, Class B	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Basic Standards	Results
Conducted Emission	ANSI C63.4 : 2003.	Complied
Radiated Emission	ANSI C63.4 : 2003	Complied

Note : Test methods of all test items are performed according to the basic standards in this table.

EMISSION

2.1 Test Results

Test Items	Basic Standards	Test Results
Conducted Emission	ANSI C63.4 : 2003	Complied
Radiated Emission	ANSI C63.4 : 2003	Complied

2.2 Test Method and Limits

2.2.1 Test Method

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	0.15 MHz ~ 30 MHz	9 kHz	N/A
Radiated Emission	30 MHz ~ 1 GHz	120 kHz	10 m & 3 m
	Above 1 GHz	1 MHz	3 m

Note : 10 m method of radiated emission measurement is only applied to Class A equipment over the frequency range of 30 MHz ~ 1 GHz. Except this, 3 m method is applied to Class B equipment over the frequency range of 30 MHz ~ 1 GHz and Class A and Class B equipment above 1 GHz.

2.2.2 Test Limits

-Conducted Emission Limits

Frequency Range	Limits(dB(μ V))		Class
	Quasi-peak	Average	
0.15 MHz ~ 0.5 MHz	79	66	Class A
0.5 MHz ~ 30 MHz	73	60	
0.15 MHz ~ 0.5 MHz	66 to 56	56 to 46	Class B
0.5 MHz ~ 5 MHz	56	46	
5 MHz ~ 30 MHz	60	50	

Note : The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

-Radiated Emission Limits below 1 GHz

Frequency Range	Limits(dB(μ V/m))	Class
	Quasi-peak	
30 MHz ~ 88 MHz	39.1	Class A
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46.4	
960 MHz ~ 1 GHz	49.5	
30 MHz ~ 88 MHz	40	Class B
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46	
960 MHz ~ 1 GHz	54	

-Radiated Emission Limits above 1 GHz

Frequency Range	Limits(dB(μ V/m))		Class
	Average	Peak	
Above 1 GHz	59.5	79.5	Class A
Above 1 GHz	54	74	Class B

Note : The limits of class A equipment is extrapolated using an extrapolation factor of 20 dB/decade because it was measured at 3m distance not 10m distance.

2.3 Conducted Emission

The initial preliminary exploratory scans were performed over the measuring frequency range(0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the software of ES-K1(Version V1.71 from R&S). The final test data was measured using a Quasi-Peak detector and Average detector.

2.3.1 Test Equipments

Description	Model No.	Manufacturer	S/N	Last Cal. Date
Two-Line V-Network	ENV216	R & S	100190	2012.01.09
Artificial Mains Networks	ESH2-Z5	R & S	100280	2012.04.06
Test Receiver	ESHS10	R & S	863365/018	2011.07.07

Note : The calibration period of every equipment is 1 year.

2.3.2 Test Site

Shield Room in Gunpo Laboratory

2.3.3 Environment Conditions

Temperature : 22.6 ~ 22.8

Humidity : 43.0 %R.H. ~ 45.0 %R.H.

Atmospheric Pressure : 100.1 kPa

Test Date : May 09, 2012

- USB Input Mode

Freq.	Line	Level (dB μ V)		CL	LISN	Result (dB μ V)		Limit (dB μ V)		Margin (dB)	
(MHz)	(H/N)	Q/P	A/V	(dB)	(dB)	Q/P	A/V	Q/P	A/V	Q/P	A/V
0.16	H	37.10	24.70	0.06	9.57	46.73	34.33	65.60	55.60	18.87	21.27
0.31	N	31.10	23.40	0.06	9.65	40.81	33.11	59.86	49.86	19.05	16.75
0.37	N	29.50	21.60	0.06	9.65	39.21	31.31	58.39	48.39	19.18	17.08
2.76	H	25.90	18.60	0.10	9.59	35.59	28.29	56.00	46.00	20.41	17.71
3.76	N	25.60	20.30	0.11	9.66	35.37	30.07	56.00	46.00	20.63	15.93
3.78	H	26.20	21.10	0.11	9.59	35.90	30.80	56.00	46.00	20.10	15.20

- LAN Input Mode

Freq.	Line	Level (dB μ V)		CL	LISN	Result (dB μ V)		Limit (dB μ V)		Margin (dB)	
(MHz)	(H/N)	Q/P	A/V	(dB)	(dB)	Q/P	A/V	Q/P	A/V	Q/P	A/V
0.15	N	35.70	23.60	0.06	9.66	45.42	33.32	65.77	55.77	20.35	22.45
0.16	H	36.90	24.10	0.06	9.57	46.53	33.73	65.66	55.66	19.13	21.93
0.31	H	31.80	23.70	0.06	9.57	41.43	33.33	59.90	49.90	18.47	16.57
0.32	N	30.80	22.90	0.06	9.65	40.51	32.61	59.84	49.84	19.33	17.23
0.39	H	30.60	22.00	0.06	9.57	40.23	31.63	57.98	47.98	17.75	16.35
3.86	N	25.60	20.40	0.11	9.66	35.37	30.17	56.00	46.00	20.63	15.83

- HDMI Input Mode

Freq.	Line	Level (dB μ V)		CL	LISN	Result (dB μ V)		Limit (dB μ V)		Margin (dB)	
(MHz)	(H/N)	Q/P	A/V	(dB)	(dB)	Q/P	A/V	Q/P	A/V	Q/P	A/V
0.16	H	37.80	24.70	0.06	9.57	47.43	34.33	65.70	55.70	18.27	21.37
0.31	N	30.70	22.60	0.06	9.65	40.41	32.31	59.96	49.96	19.55	17.65
0.32	H	31.70	24.10	0.06	9.57	41.33	33.73	59.77	49.77	18.44	16.04
0.39	N	29.90	21.10	0.06	9.65	39.61	30.81	58.09	48.09	18.48	17.28
2.57	H	26.60	19.20	0.11	9.58	36.29	28.89	56.00	46.00	19.71	17.11
2.62	H	26.60	18.80	0.11	9.58	36.29	28.49	56.00	46.00	19.71	17.51

Measurement Uncertainty : ± 4.12 dB (The confidential level is about 95%, K=2)

Note : • Line (H) : Hot • Line (N) : Neutral
• CL: Cable Loss • LISN : LISN Factor
• Result = Level + CL + LISN • Margin = Limit – Result

See Appendix A (Conducted Emission)

2.4 Radiated Emission

The initial preliminary exploratory scans were performed at 3 m distance over the measuring frequency range(30 MHz to 25 GHz) using a max hold mode incorporating a Peak detector and using the software of EP5RE(Version Ver3.10.20 from TOYO). The final test data was measured using a Quasi-Peak detector below 1 GHz at 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

2.4.1 Test Equipments

Description	Model No.	Manufacturer	S/N	Last Cal. Date
Horn Antenna	HF906	R & S	100326	2011.11.23
Signal Conditioning Unit	SCU 18	R & S	10117	2012.01.12
Bilog Antenna	VULB9163	SCHWARZBEC K MESS- ELEKTRONIK	396	2011.05.12
Test Receiver	ESU26	R & S	100109	2012.02.21
Amplifier	8447F	HP	2944A03909	2011.07.04
Horn Antenna	BBHA9170	Schwarzbeck Mess-Elektronik	BBHA917022 3	2010.06.30
PREAMPLIFIER	JS44- 18004000-35- 8P	MITEQ Inc.	1546891	2011.07.04
Signal Analyzer	N9030A	Aglient	US51350132	2011.10.28

Note : Only the calibration period of Antennas is 2 years but the period of every equipment is 1 year.

2.4.2 Test Site

3 m Semi-Anechoic Chamber in Gunpo Laboratory

2.4.3 Environment Conditions

Below 1 GHz (3 m method)

Temperature : 22.1 ~ 22.3

Humidity : 30.0 %R.H. ~ 32.0 %R.H.

Atmospheric Pressure : 100.0 kPa

Test Date : April 24, 2012

- USB Input Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
37.50	46.30	V	278.0	1.00	13.14	0.65	27.16	32.93	40.00	7.07
94.90	47.40	V	110.0	1.00	11.05	1.03	27.46	32.02	43.50	11.48
157.42	49.40	H	154.0	2.00	8.79	1.29	27.04	32.44	43.50	11.06
175.31	52.10	H	154.0	2.00	9.82	1.38	26.90	36.40	43.50	7.10
250.00	51.80	H	50.0	1.30	12.63	1.64	26.60	39.47	46.00	6.53
374.99	50.90	H	154.0	1.00	13.46	2.03	27.49	38.90	46.00	7.10
499.99	45.70	V	154.0	1.00	15.96	2.32	27.80	36.18	46.00	9.82
783.10	45.30	H	220.0	1.60	20.68	2.92	27.82	41.08	46.00	4.92

- LAN Input Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
37.66	43.90	V	100.0	1.00	13.18	0.65	27.16	30.57	40.00	9.43
53.09	42.10	V	98.3	1.00	13.56	0.77	27.12	29.31	40.00	10.69
182.14	49.90	H	167.0	2.00	10.14	1.41	26.84	34.61	43.50	8.89
249.99	51.20	H	10.0	1.00	12.63	1.64	26.60	38.87	46.00	7.13
266.67	46.40	H	110.0	1.00	12.63	1.69	26.57	34.15	46.00	11.85
499.99	44.50	V	130.0	1.00	15.96	2.32	27.80	34.98	46.00	11.02
783.10	43.40	H	220.0	1.00	20.68	2.92	27.82	39.18	46.00	6.82

- HDMI Input Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
38.81	47.30	V	80.0	1.00	13.45	0.66	27.16	34.25	40.00	5.75
72.00	50.30	H	251.0	2.00	8.25	0.87	27.28	32.14	40.00	7.86
79.53	48.40	V	311.0	2.00	7.38	0.95	27.34	29.39	40.00	10.61
157.49	52.40	H	130.0	2.00	8.79	1.29	27.04	35.44	43.50	8.06
174.27	53.10	H	167.0	2.00	9.77	1.37	26.91	37.33	43.50	6.17
256.52	49.80	H	194.0	1.00	12.63	1.66	26.59	37.50	46.00	8.50
427.52	51.10	H	30.0	1.00	14.35	2.12	27.44	40.13	46.00	5.87
799.99	45.60	V	300.0	1.00	20.94	2.94	27.80	41.68	46.00	4.32

Measurement Uncertainty (Horizontal) : ± 5.44 dB (The confidential level is about 95%, K=2)

Measurement Uncertainty (Vertical) : ± 5.81 dB (The confidential level is about 95%, K=2)

Note: • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
 • Pol.(H) = Horizontal • Pol.(V) = Vertical • Amp. = Amplifier Gain
 • Margin = Limit – F/S • F/S = Level + AF + CL – Amp.
 • A : Angle • H : Height

Above 1 GHz (3 m method)

Temperature : 22.4 ~ 22.5

Humidity : 34.0 %R.H. ~ 35.0 %R.H.

Atmospheric Pressure : 100.0 kPa

Test Date : April 24, 2012

- USB Input Mode

Freq. (MHz)	Level (dBμV)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Peak Detector										
1079.99	62.20	H	338.0	1.00	24.07	3.72	42.92	47.07	74.00	26.93
1214.98	63.60	V	206.0	1.00	25.04	3.98	42.79	49.84	74.00	24.16
1671.12	67.90	H	225.0	1.00	25.66	4.61	42.66	55.51	74.00	18.49
3999.95	52.60	V	140.0	1.00	32.27	6.86	42.30	49.43	74.00	24.57
14486.93	35.00	V	351.0	1.00	41.35	11.80	39.62	48.53	74.00	25.47
15060.29	34.50	H	154.0	2.00	40.17	10.83	38.85	46.65	74.00	27.35
Average Detector										
1079.99	54.60	H	168.0	1.00	24.07	3.72	42.92	39.47	54.00	14.53
1214.98	51.10	V	206.0	1.00	25.04	3.98	42.79	37.34	54.00	16.66
1671.12	53.00	H	225.0	1.00	25.66	4.61	42.66	40.61	54.00	13.39
3999.95	44.80	V	140.0	1.00	32.27	6.86	42.30	41.63	54.00	12.37
14486.93	21.30	V	351.0	1.00	41.35	11.80	39.62	34.83	54.00	19.17
15060.29	21.00	H	154.0	2.00	40.17	10.83	38.85	33.15	54.00	20.85

- LAN Input Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
1214.99	64.50	V	200.0	1.00	25.04	3.98	42.79	50.74	74.00	23.26
1336.97	70.50	V	180.0	1.00	25.12	4.23	42.73	57.12	74.00	16.88
1671.23	73.60	V	230.0	1.00	25.66	4.61	42.66	61.21	74.00	12.79
1990.63	60.10	V	10.0	2.00	27.88	4.77	42.70	50.05	74.00	23.95
3999.95	53.40	V	151.0	2.00	32.27	6.86	42.30	50.23	74.00	23.77
14468.96	35.10	V	180.0	2.00	41.35	11.81	39.65	48.61	74.00	25.39
Average Detector										
1214.99	52.20	V	200.0	1.00	25.04	3.98	42.79	38.44	54.00	15.56
1336.97	53.90	V	180.0	1.00	25.12	4.23	42.73	40.52	54.00	13.48
1671.23	47.80	V	230.0	1.00	25.66	4.61	42.66	35.41	54.00	18.59
1990.63	38.00	V	10.0	2.00	27.88	4.77	42.70	27.95	54.00	26.05
3999.95	48.80	V	151.0	2.00	32.27	6.86	42.30	45.63	54.00	8.37
14468.96	21.30	V	180.0	2.00	41.35	11.81	39.65	34.81	54.00	19.19

- HDMI Input Mode

Freq. (MHz)	Level (dB μ V)	Pol. (H/V)	A (°)	H (m)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Peak Detector										
1013.70	66.10	V	212.0	2.00	24.22	3.75	42.99	51.08	74.00	22.92
1336.76	69.80	V	170.0	1.00	25.12	4.23	42.73	56.41	74.00	17.59
1799.98	63.50	V	80.0	1.00	26.98	4.71	42.60	52.59	74.00	21.41
1997.10	59.00	V	10.0	1.00	27.93	4.74	42.70	48.97	74.00	25.03
6003.65	45.30	V	340.0	1.00	34.52	8.68	42.10	46.40	74.00	27.60
14758.99	35.60	V	110.0	1.00	40.93	11.18	39.19	48.53	74.00	25.47
Average Detector										
1013.70	40.50	V	212.0	2.00	24.22	3.75	42.99	25.48	54.00	28.52
1336.76	53.00	V	170.0	1.00	25.12	4.23	42.73	39.61	54.00	14.39
1799.98	38.00	V	80.0	1.00	26.98	4.71	42.60	27.09	54.00	26.91
1997.10	37.50	V	10.0	1.00	27.93	4.74	42.70	27.47	54.00	26.53
6003.65	27.80	V	340.0	1.00	34.52	8.68	42.10	28.90	54.00	25.10
14758.99	21.20	V	110.0	1.00	40.93	11.18	39.19	34.13	54.00	19.87

Measurement Uncertainty (Horizontal) : ± 4.80 dB (The confidential level is about 95%, K=2)

Measurement Uncertainty (Vertical) : ± 4.82 dB (The confidential level is about 95%, K=2)

Note: • AF = Antenna Factor

• CL = Cable Loss

• F/S = Field Strength

• Pol.(H) = Horizontal

• Pol.(V) = Vertical

• Amp. = Amplifier Gain

• Margin = Limit – F/S

• F/S = Level + AF + CL – Amp.

• A : Angle

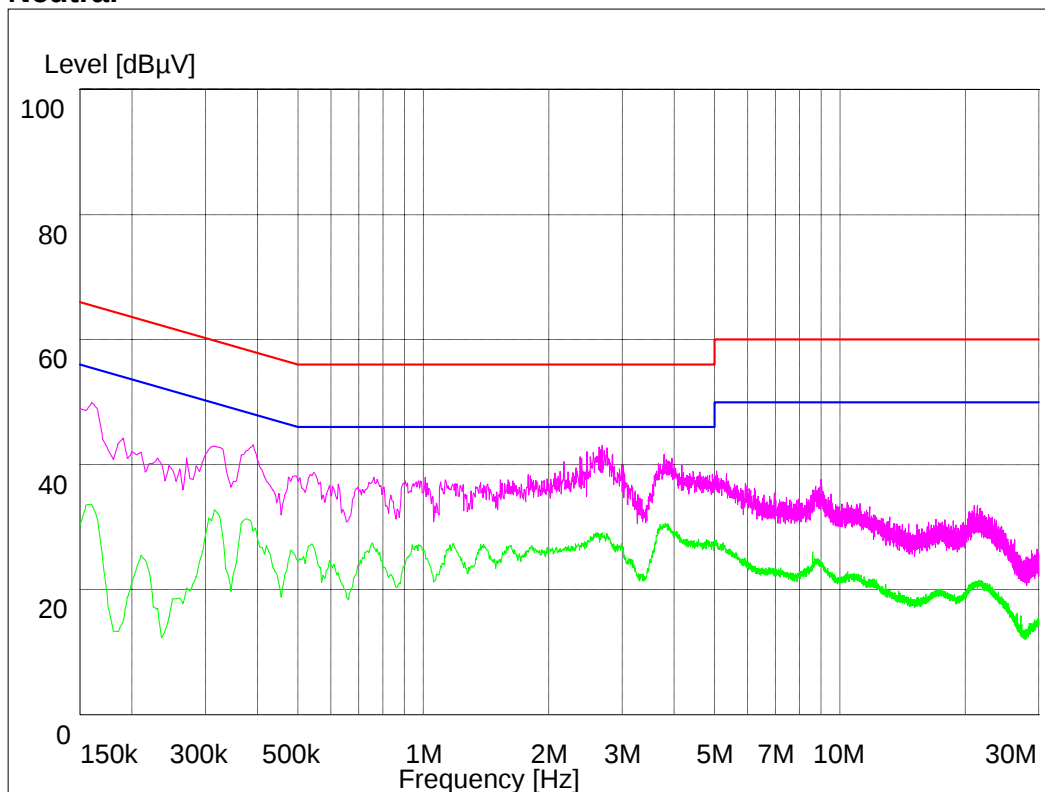
• H : Height

See Appendix B (Radiated Emission)

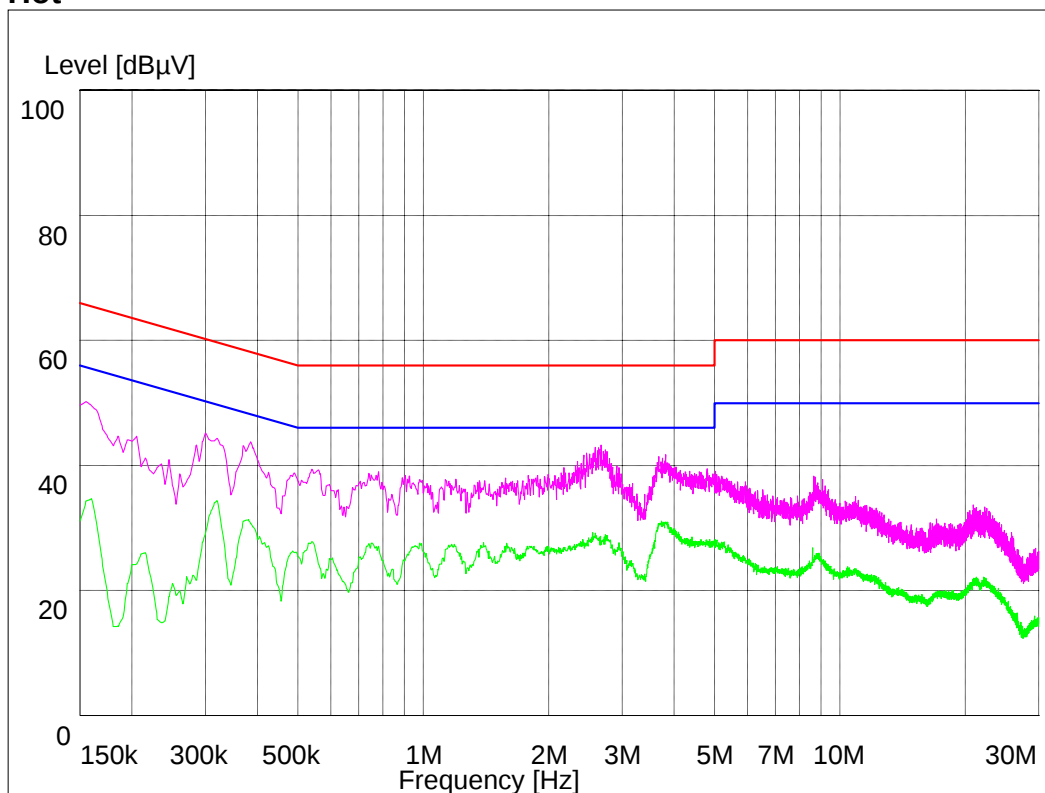
Appendix A : Conducted Emission

- USB Input Mode

Neutral

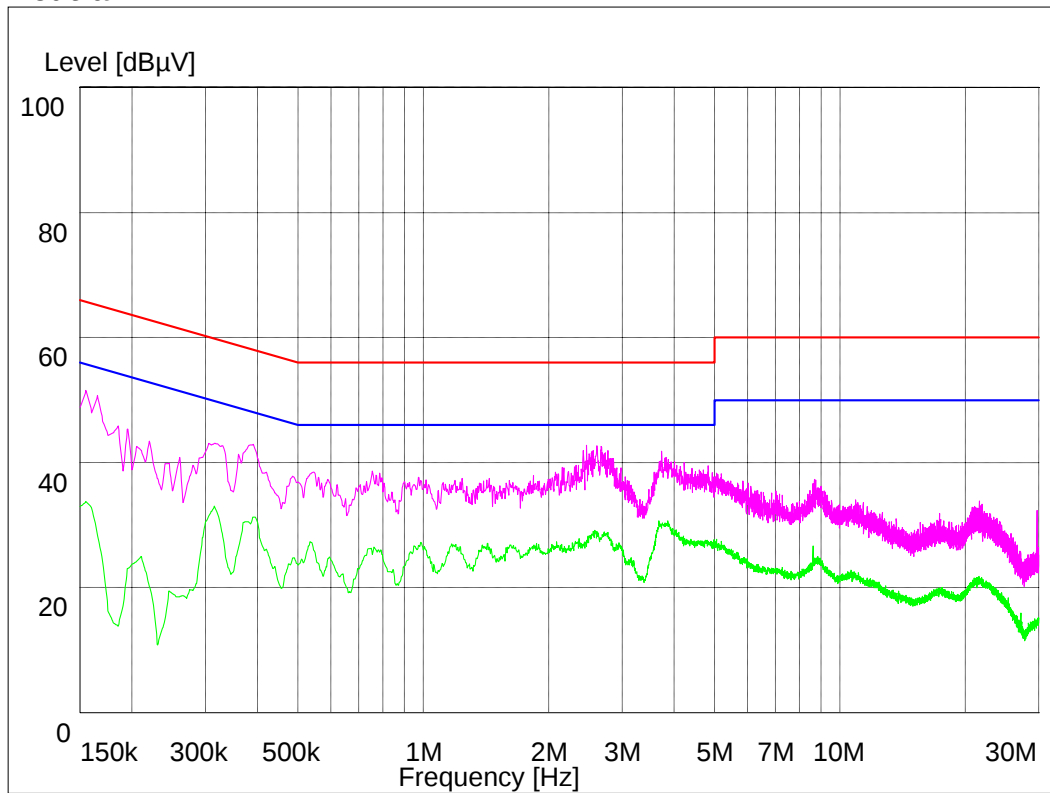


Hot

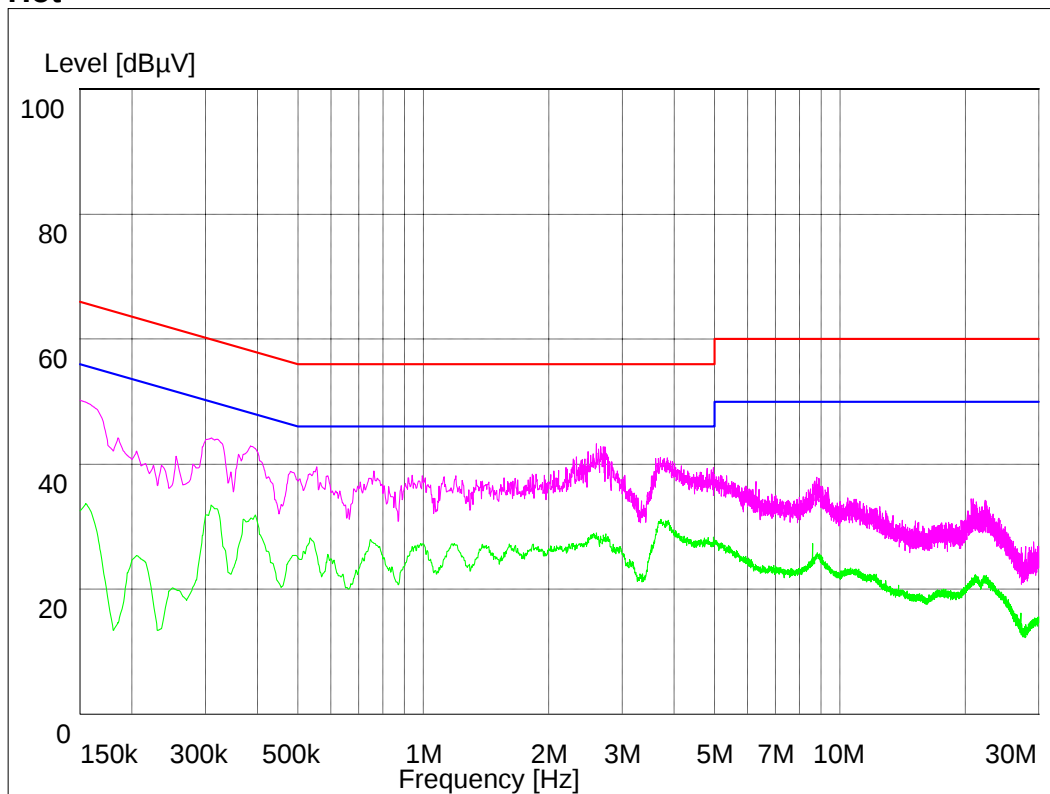


- LAN Input Mode

Neutral

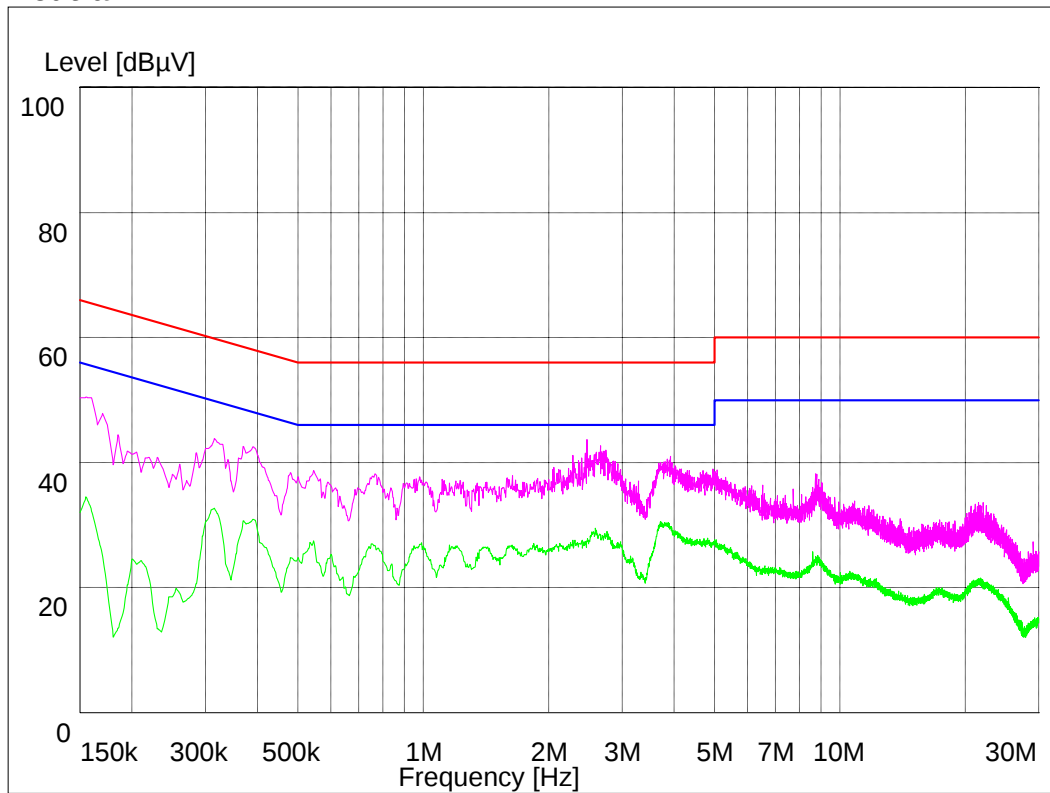


Hot

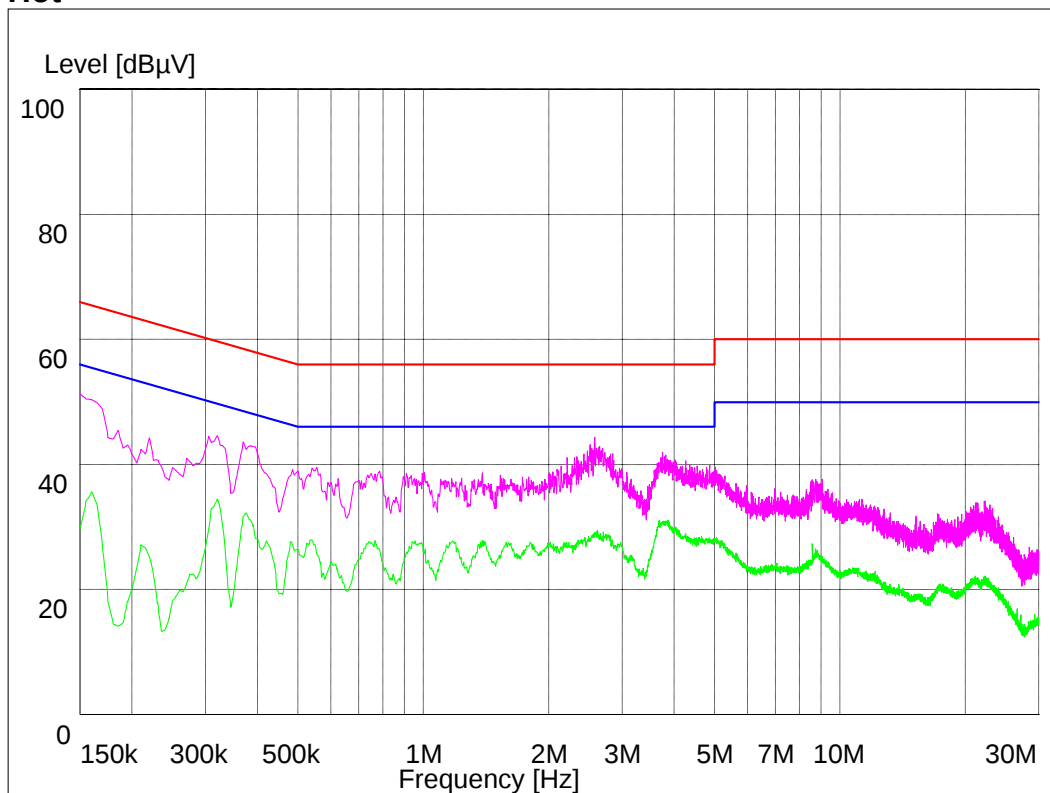


- HDMI Input Mode

Neutral



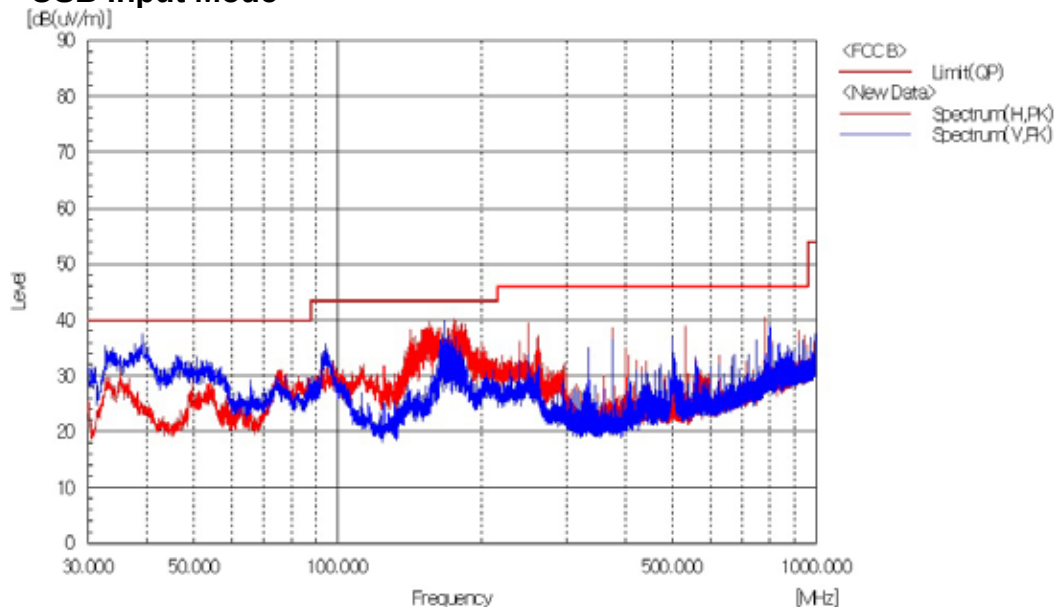
Hot



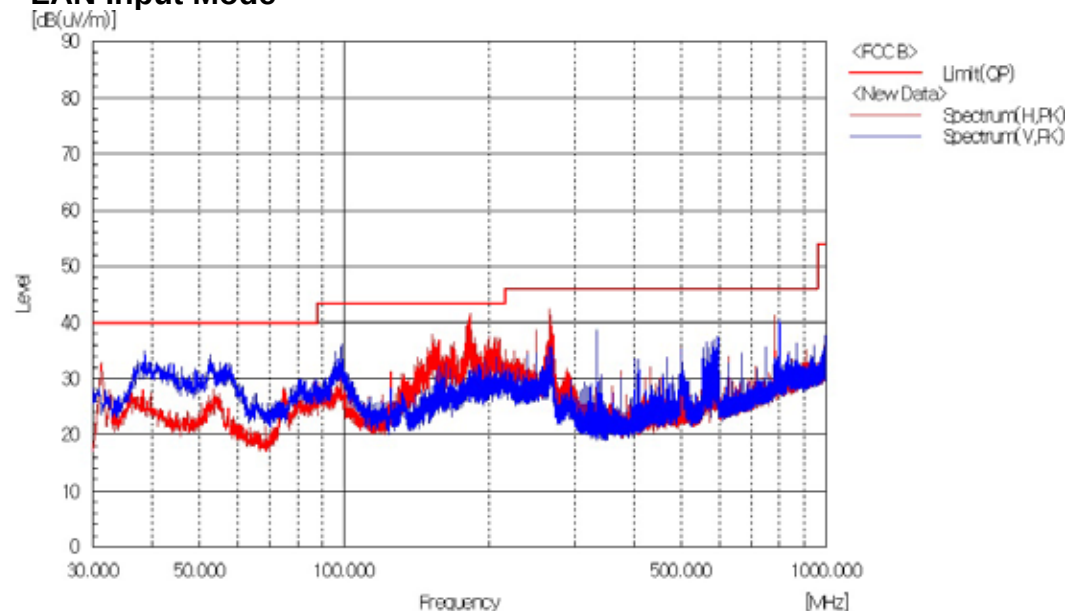
Appendix B : Radiated Emission (3m Scan Data)

Below 1 GHz

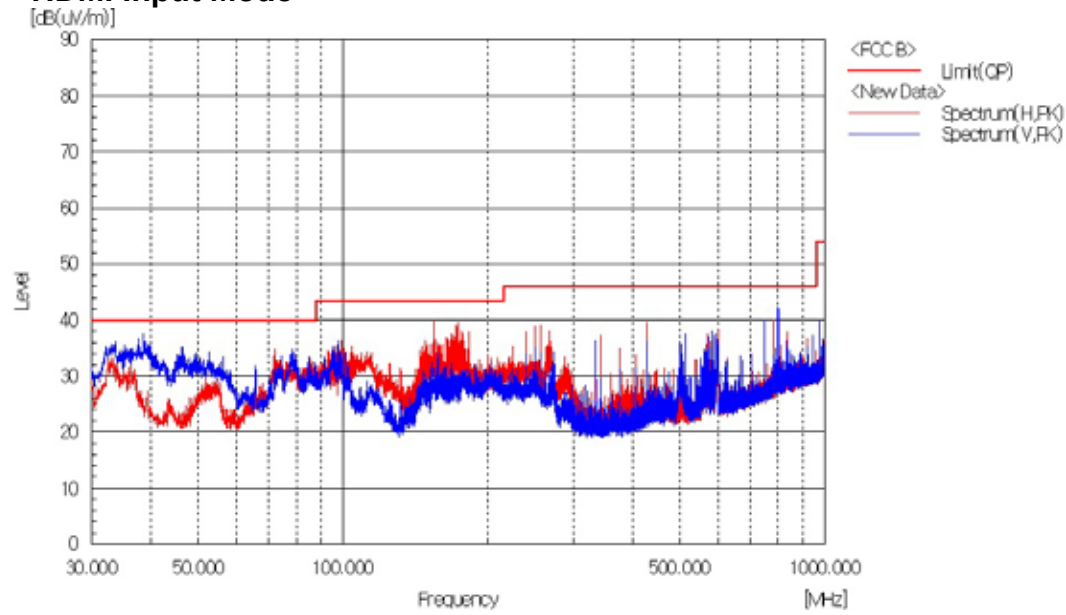
- USB Input Mode



- LAN Input Mode

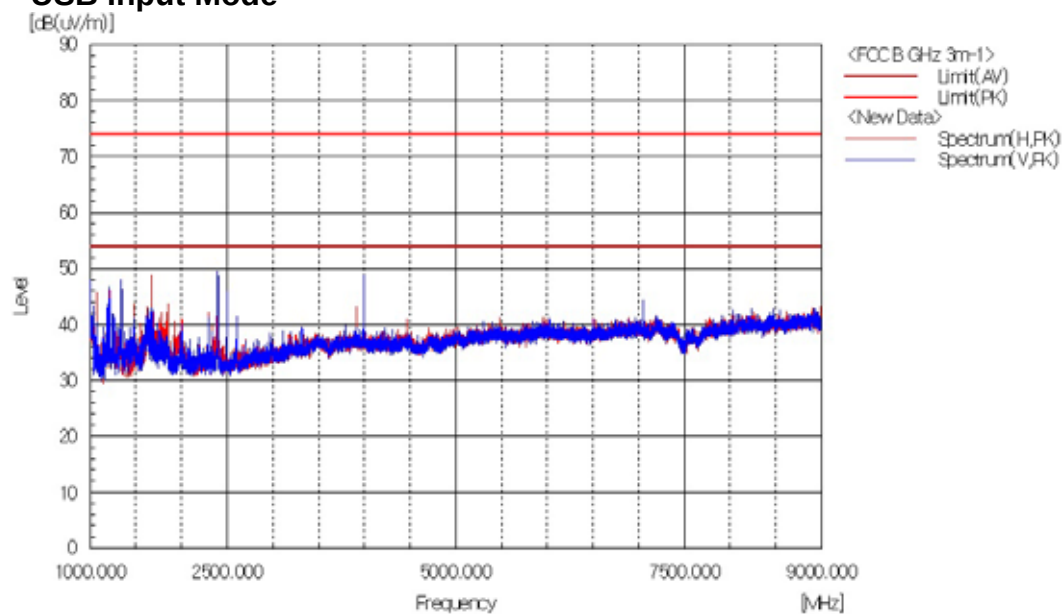


- HDMI Input Mode

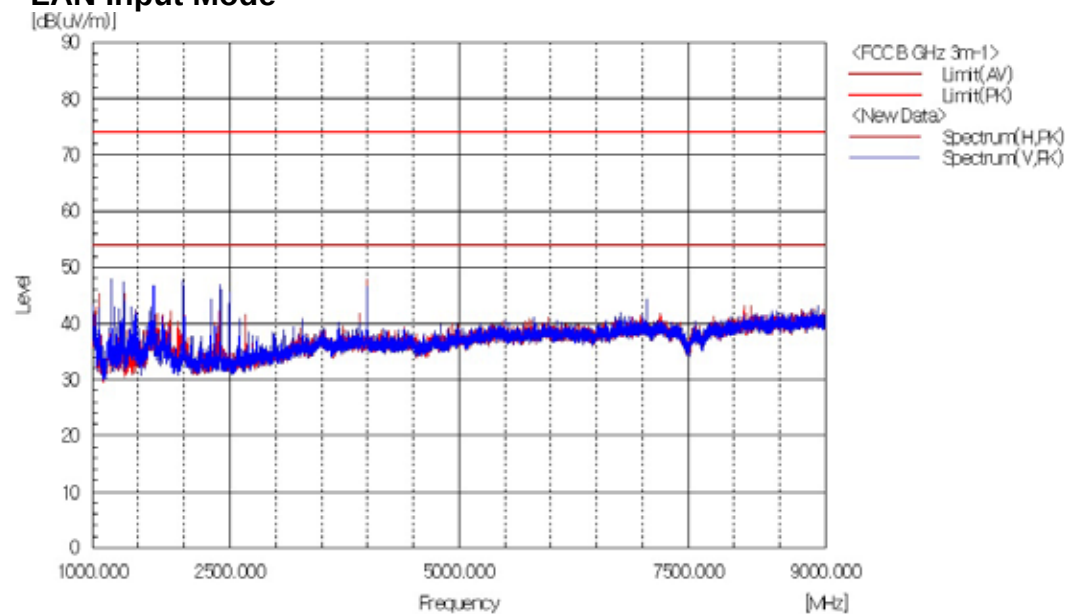


Above 1 GHz
(From 1 GHz ~ 9 GHz)

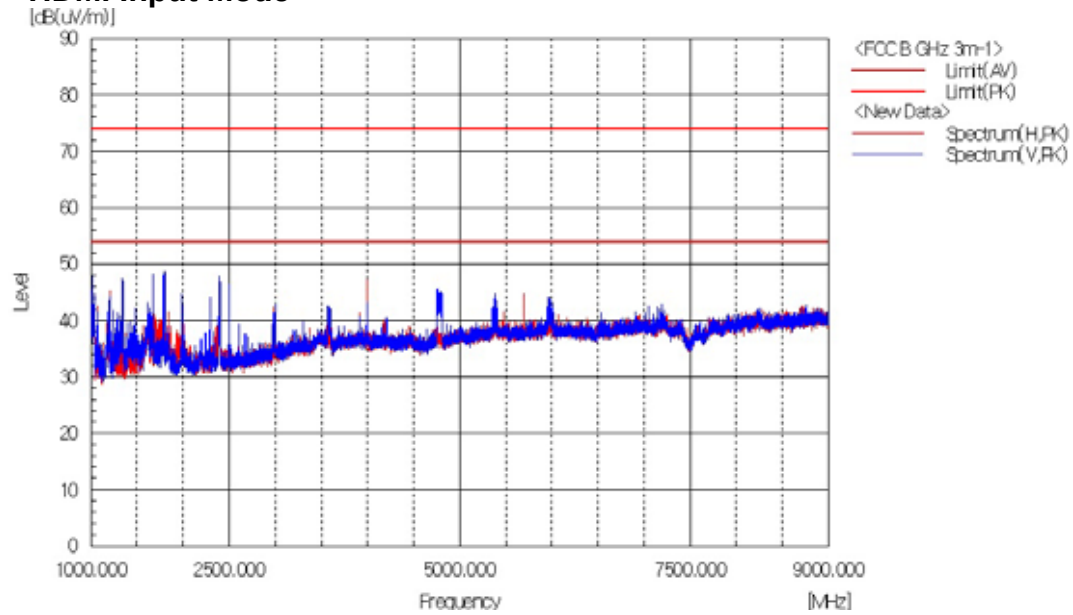
- USB Input Mode



- LAN Input Mode

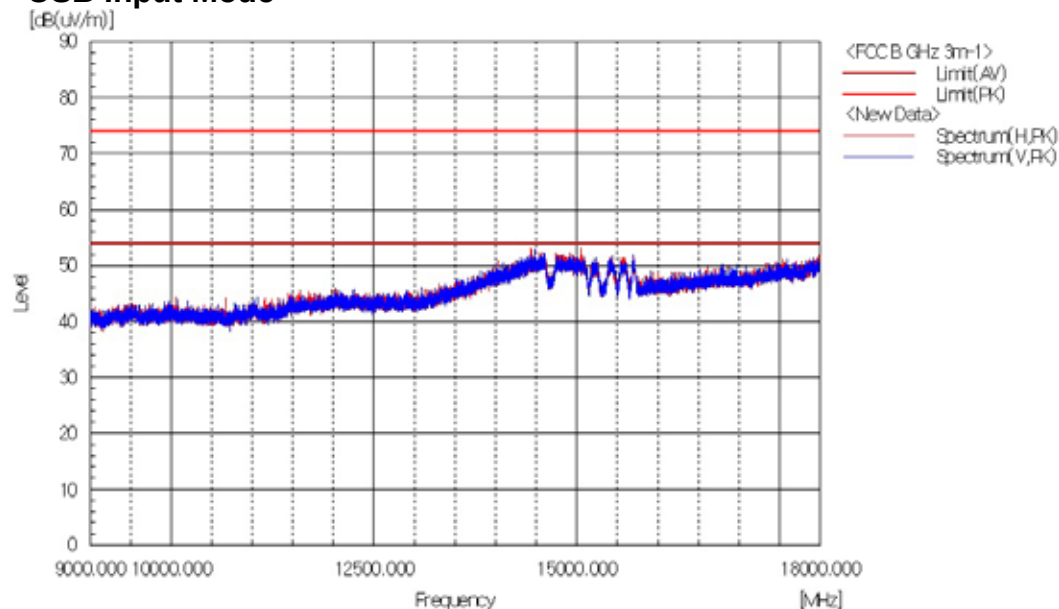


- HDMI Input Mode

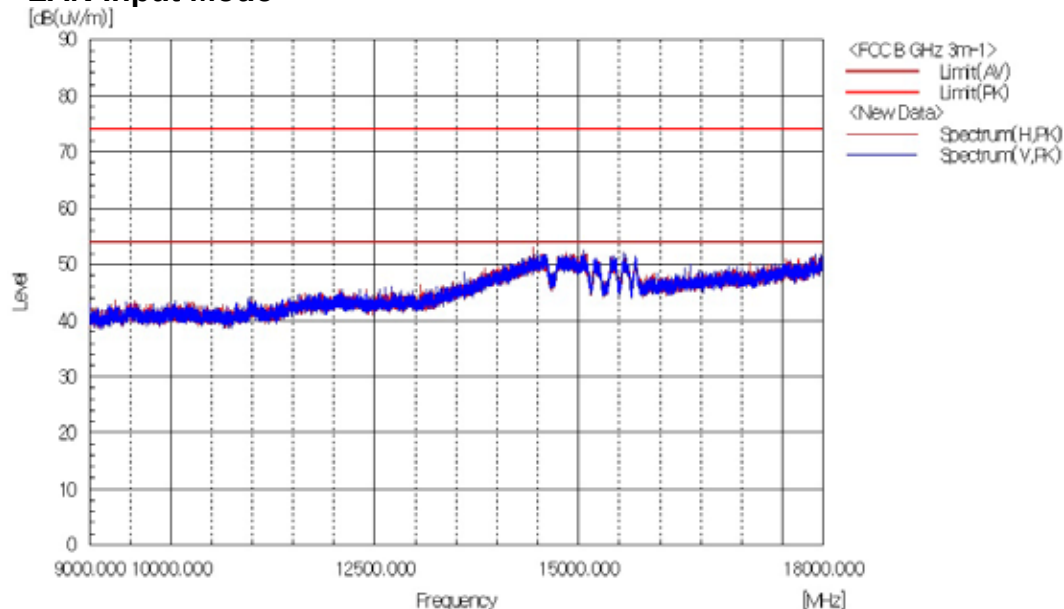


(From 9 GHz ~ 18 GHz)

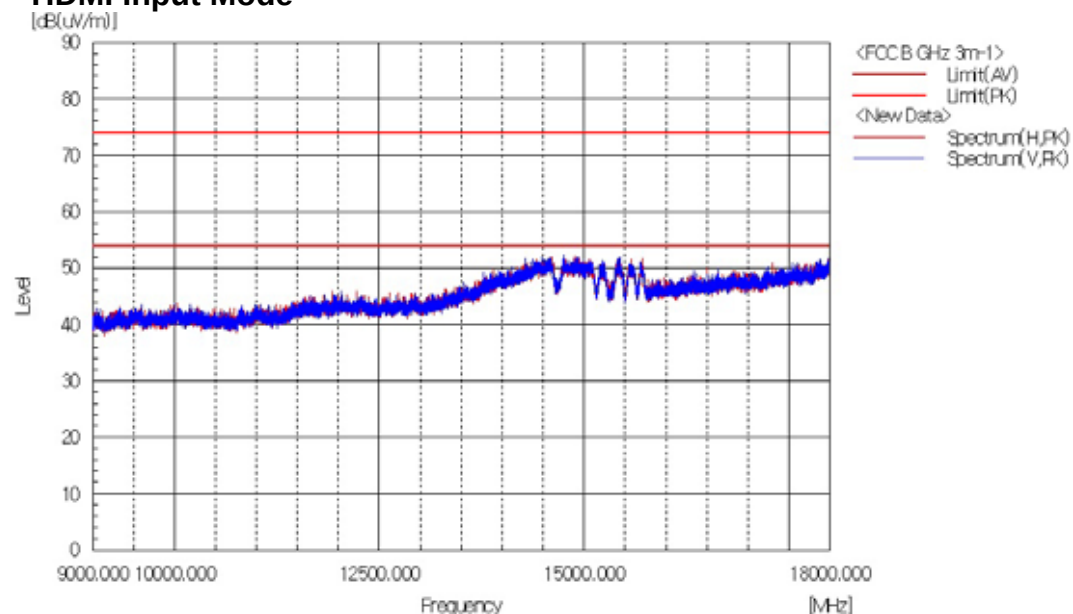
- USB Input Mode



- LAN Input Mode

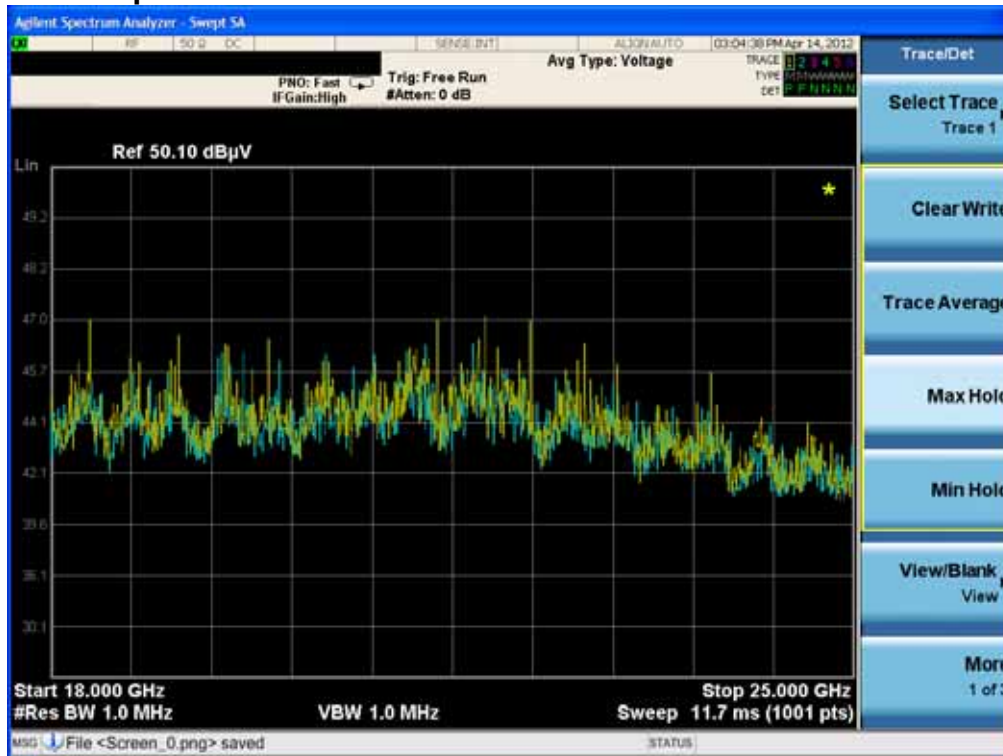


- HDMI Input Mode

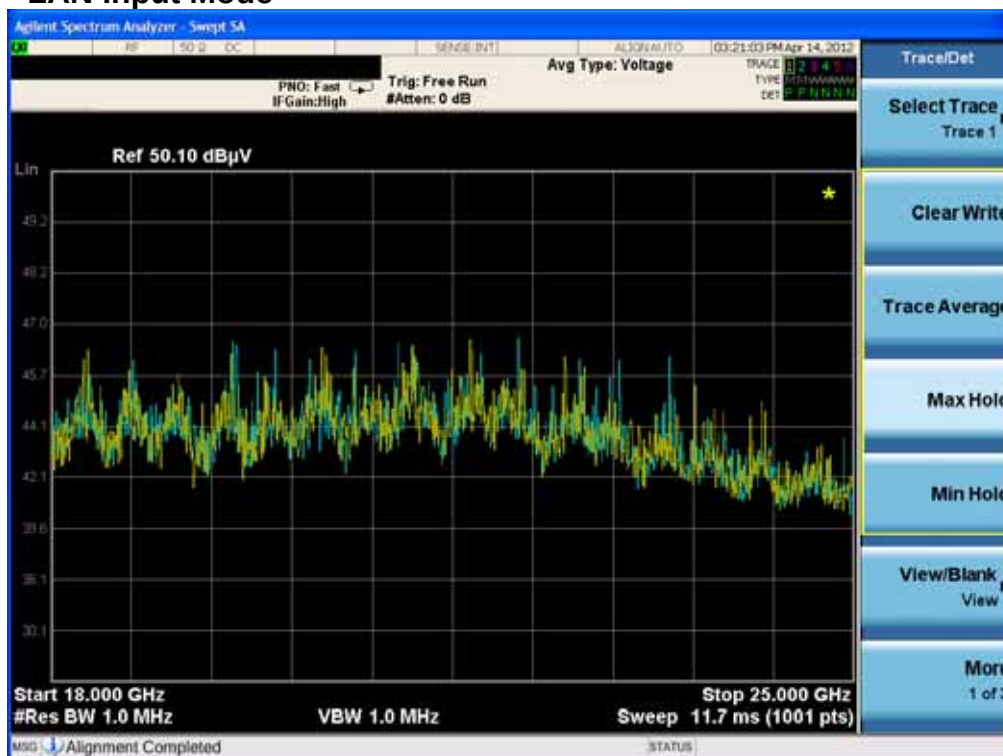


Above 18 GHz

- USB Input Mode



- LAN Input Mode



- HDMI Input Mode

