



FCC/IC TEST REPORT

Job No. : GPEM2210000469EC
Applicant : iRevo-ASSA ABLOY Korea
Equipment Under Test (EUT) :
 Product Name : Yale Smart Opener-Garage
 Model Name : YRDC-2
 Alt. Model Name : IES-D320W
FCC Authorization Type : Certification
Applied Standards : FCC Part 15 Subpart B, Class B
 ICES-003 Issue 7:2020
FCC ID : 2ABFG-YRDC2
IC Certification : 11626A-YRDC2
Date of Receipt : September 30, 2022
Date of Test : October 27, 2022 ~ November 2, 2022
Date of Issue : November 10, 2022
Test Results : Complied

Tested by	:		 ----- DoHyeon Lee
Reviewed by	:		 ----- Paul Kang

This test report does not assure KOLAS accreditation.

- 1) The results of this test report are effective only to the items tested.
- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.

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Revision History

Revision	Report number	Description
0	F690501-RF-EMC000949	Initial

1. General Information

1.1 Client Information

Applicant	iRevo-ASSA ABLOY Korea
Applicant Address	10f of JEI PLATZ Bldg., 186, Gasandigital 1-ro, Geumcheon-gu, Seoul, 08502, Republic of Korea
Manufacturer	iRevo-ASSA ABLOY Korea
Manufacturer Address	10f of JEI PLATZ Bldg., 186, Gasandigital 1-ro, Geumcheon-gu, Seoul, 08502, Republic of Korea

1.2 Test Laboratory

Name and Address	SGS Korea Co., Ltd.
- Giheung Laboratory	35, Giheungdanji-ro 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Gunpo Laboratory	4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, 15807, Republic of Korea
- Dongtan Laboratory	12, Dongtansandan 10-gil, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea
FCC Registration No.	KR0150
IC Registration No.	7837B
Phone	+ 82 31 428 5719
Fax	+ 82 31 427 2371
e-mail	paul.kang@sgs.com

1.3 General Information of E.U.T.

Classification	Specification
Product Name	Yale Smart Opener-Garage
Model Name	YRDC-2
Alt. Model Name	IES-D320W
Model Differences	IES-D320W is no different from YRDC-2 except that it is added for marketing purposes.
Serial No.	None
EMI Classification	Class B
Test Voltage	DC 5 V, DC 24 V
Rated Voltage	DC 5 V ~ DC 24 V
Highest Internal Frequency	2 485 MHz
H/W Version	1.0
S/W Version	1.0
Port	UART, Relay, DPS, RESET
Function	Dry contact device that is built with Wi-Fi and Bluetooth connection

1.4 Operating Modes and Conditions

Operating mode	Operating Condition
1) Bluetooth LE(Ver 5.3) +WLAN 2.412 GHz(5 V)	Communication status with Notebook and Dongle Communication status with Wireless Router
2) REX (5 V)	Switch operation state
3) Bluetooth LE(Ver 5.3) +WLAN 2.412 GHz(24 V)	Communication status with Notebook and Dongle Communication status with Wireless Router
4) REX (24 V)	Switch operation state

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer
Notebook	T440p	-	Lenovo
Dongle	-	-	-

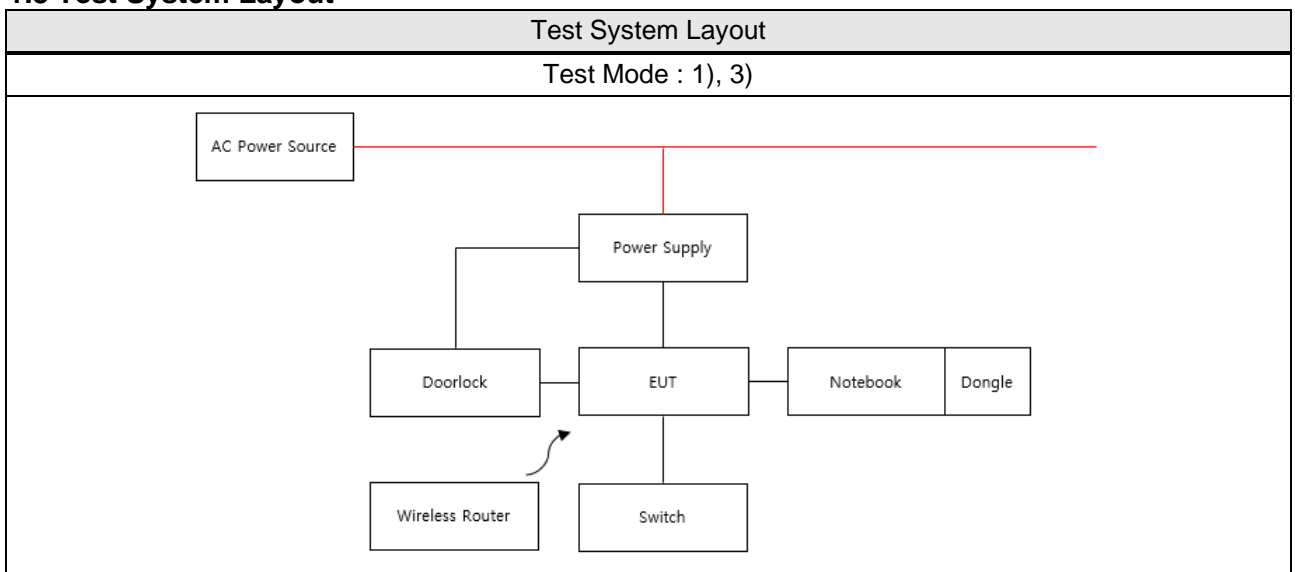
1.6 Cable List

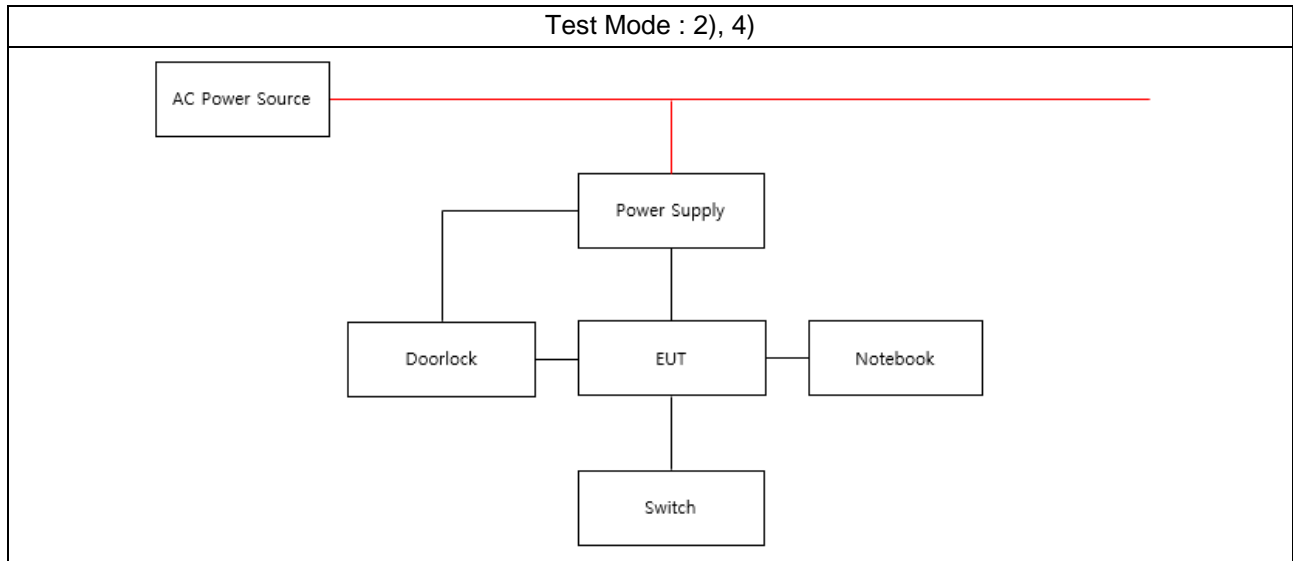
Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length (m)	Shield	
Test Mode : 1), 3)						
AC Power Source	AC OUT	Power Supply	AC IN	1.5	Unshield	-
Power Supply	DC OUT	EUT	DC IN	1.0	Unshield	-
		Doorlock		3.0	Unshield	-
EUT	COM2	Doorlock	COM2	4.0	Unshield	-
	REX2	Switch	REX2	1.0	Unshield	-
	DC, RESET	Notebook	USB	0.5	Unshield	-
	-	Wireless Router	-	-	-	-
Notebook	USB	DONGLE	USB	-	Unshield	-
Test Mode : 2), 4)						
AC Power Source	AC OUT	Power Supply	AC IN	1.5	Unshield	-
Power Supply	DC OUT	EUT	DC IN	1.0	Unshield	-
		Doorlock		3.0	Unshield	-
EUT	COM2	Doorlock	COM2	4.0	Unshield	-
	REX2	Switch	REX2	1.0	Unshield	-
	DC, RESET	Notebook	USB	0.5	Unshield	-

1.7 System Configurations

Description	Model	Serial No.	Manufacturer	Note
Main Board	Shara Garage and Gates ALPHA 220718	PC4M-D320W-H1	-	-
Wi-Fi Module	NINA-W132	-	-	-

1.8 Test System Layout





1.9 Modifications/Notes

- There was no modified item during the test.

1.10 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15 Subpart B ICES-003 Issue 7:2020 ANSI C63.4a:2017	Applicable	No Deviation

1.11 Summary of Test Results

Test Item	Standards	Results
Conducted Emission	FCC Part 15 Subpart B Section 15.107 ICES-003 Issue 7:2020	N/A
Radiated Emission	FCC Part 15 Subpart B Section 15.109 ICES-003 Issue 7:2020	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	Standards	Test Results
Conducted Emission	FCC Part 15 Subpart B Section 15.107 ICES-003 Issue 7:2020 ANSI C63.4a:2017	N/A
Radiated Emission	FCC Part 15 Subpart B Section 15.109 ICES-003 Issue 7:2020 ANSI C63.4a:2017	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	-
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

[FCC Part 15 Subpart B]

Frequency Range	Limits(dB μ V/m)	Class
	Quasi-peak	
30 MHz ~ 88 MHz	39.0	Class A (10 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46.4	
960 MHz ~ 1 GHz	49.5	
30 MHz ~ 88 MHz	40.0	Class B (3 m method)
88 MHz ~ 216 MHz	43.5	
216 MHz ~ 960 MHz	46.0	
960 MHz ~ 1 GHz	54.0	

[ICES-003 Issue 7 : 2020]

Frequency Range	Limits(dB μ V/m)		Class
	Quasi-peak		
30 MHz ~ 88 MHz	40.0		Class A (10 m method)
88 MHz ~ 216 MHz	43.5		
216 MHz ~ 230 MHz	46.4		
230 MHz ~ 960 MHz	47.0		
960 MHz ~ 1 GHz	49.5		
30 MHz ~ 88 MHz	50.0		Class A (3 m method)
88 MHz ~ 216 MHz	54.0		
216 MHz ~ 230 MHz	56.9		
230 MHz ~ 960 MHz	57.0		
960 MHz ~ 1 GHz	60.0		
30 MHz ~ 88 MHz	30.0		Class B (10 m method)
88 MHz ~ 216 MHz	33.1		
216 MHz ~ 230 MHz	35.6		
230 MHz ~ 960 MHz	37.0		
960 MHz ~ 1 GHz	43.5		
30 MHz ~ 88 MHz	40.0		Class B (3 m method)
88 MHz ~ 216 MHz	43.5		
216 MHz ~ 230 MHz	46.0		
230 MHz ~ 960 MHz	47.0		
960 MHz ~ 1 GHz	54.0		

-Radiated Emission Limits above 1 GHz (3 m method)

[FCC Part 15 Subpart B]

Frequency Range	Limits(dB μ V/m)		Class
	Average	Peak	
Above 1 GHz	59.5	79.5	Class A
Above 1 GHz	54.0	74.0	Class B

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

[ICES-003 Issue 7 : 2020]

Frequency Range	Limits(dB μ V/m)		Class
	Average	Peak	
Above 1 GHz	60.0	80.0	Class A
Above 1 GHz	54.0	74.0	Class B

2.3 Radiated Emission

The initial preliminary exploratory scans were performed over the measuring frequency range (30 MHz to 13 GHz) using a max hold mode incorporating a Peak detector by using the EMI measuring software. The final test data was measured using a Quasi-Peak detector below 1 GHz, Peak and CISPR-Average detector above 1 GHz. 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.

Note. Measuring software

- Giheung Lab.: EMC32(V10.40.10) from R&S
- Gunpo Lab.: EP5RE(V5.3.70) from TOYO
- Dongtan Lab.: EMC32(V10.40.10) from R&S

2.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Due. Date
Horn Antenna	HF906	R & S	100326	2023.02.18
Signal Conditioning Unit	SCU 18	R & S	10117	2023.06.13
Test Receiver	ESU26	R & S	100109	2023.01.18
Hybrid Antenna	VULB9163	SCHWARZBECK	01126	2023.02.07
Amplifier	8447F	HP	2944A03909	2023.08.04
RF Cable(CA-04)	-	-	-	2023.04.04
RF Cable(CA-05)	-	-	-	2023.04.04
RF Cable(CA-06)	MWX221-NMSNMS (4m)	RF ONE	J023142	2023.04.04
RF Cable(CA-07)	PL520-NMNM-10M (10m)	RF ONE	0200324001	2023.04.04

2.3.2 Test Site

3 m SEMI-ANECHOIC CHAMBER in Gunpo Laboratory

2.3.3 Environment Conditions

Below 1 GHz

Temperature	(Minimum 22.0, Maximum 22.2) °C
Humidity	(Minimum 43.0, Maximum 45.0) % R.H.
Atmospheric Pressure	(Minimum 102.0, Maximum 102.0) kPa
Test Date	October 27, 2022

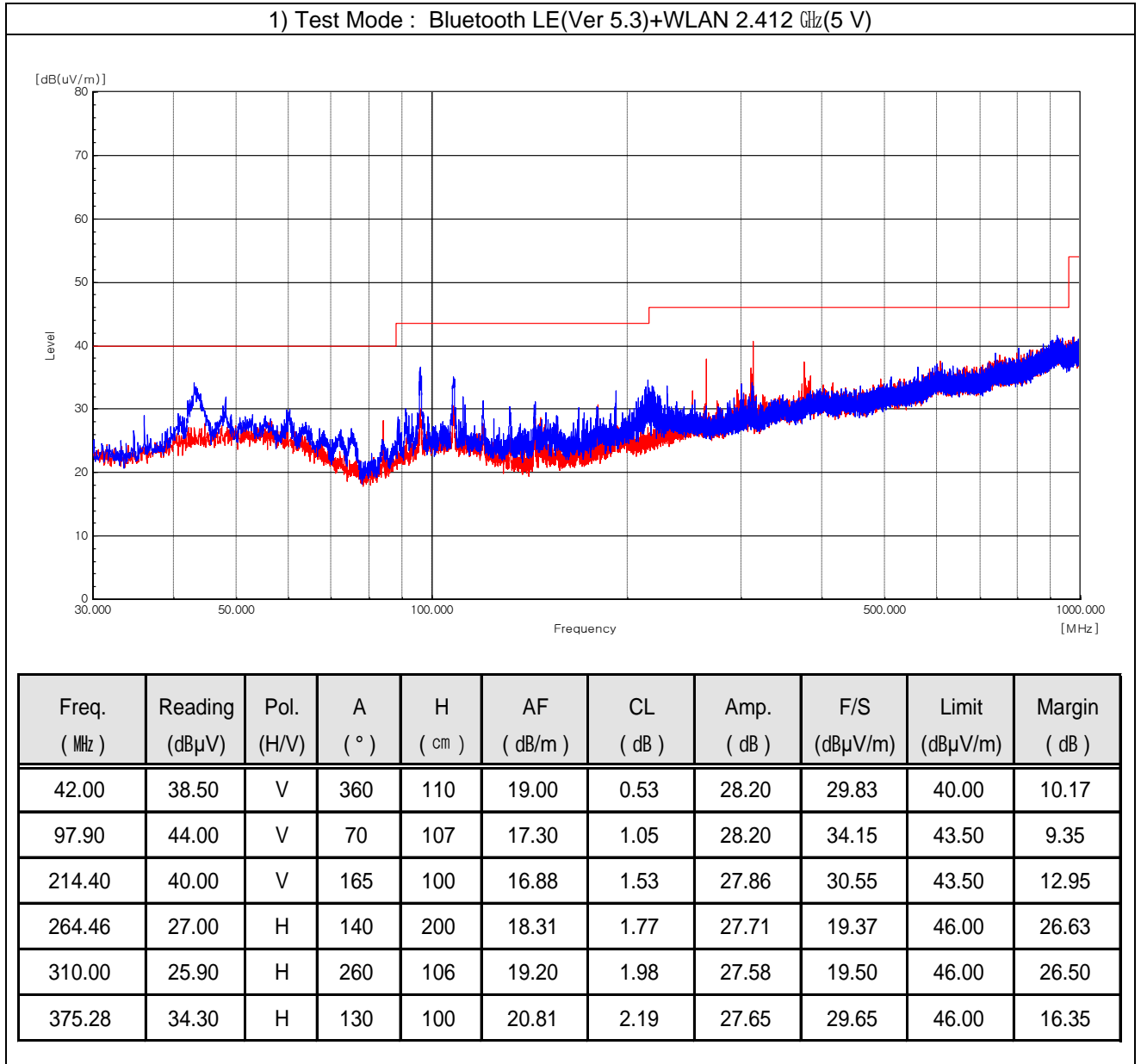
Above 1 GHz

Temperature	(Minimum 20.0, Maximum 20.1) °C
Humidity	(Minimum 38.0, Maximum 39.0) % R.H.
Atmospheric Pressure	(Minimum 101.4, Maximum 101.4) kPa
Test Date	November 2, 2022

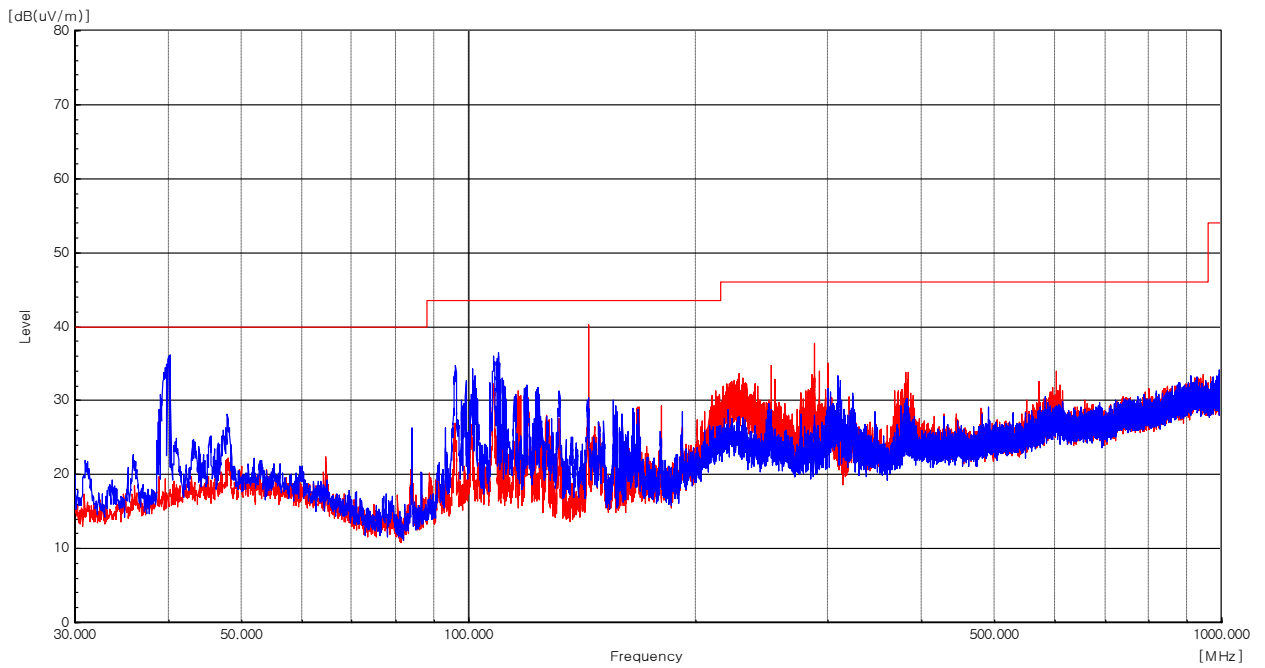
2.3.4 Test Results

Below 1 GHz (3 m method)

[FCC Part 15 Subpart B]

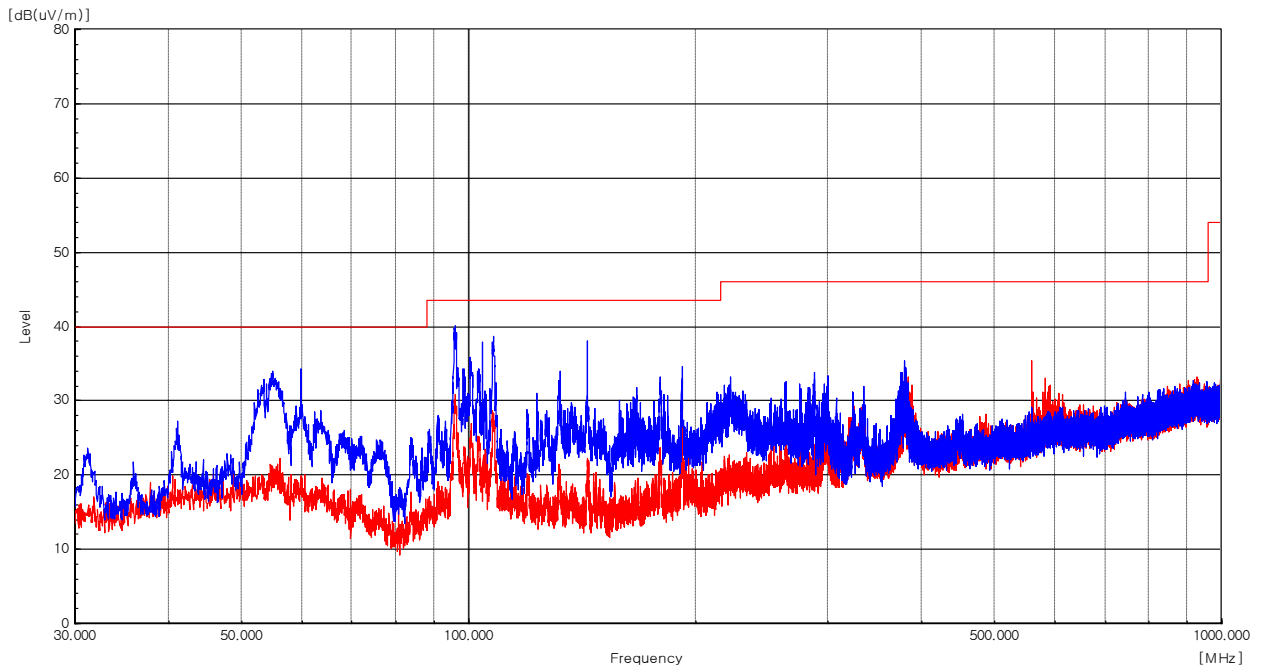


2) Test Mode : REX (5 V)



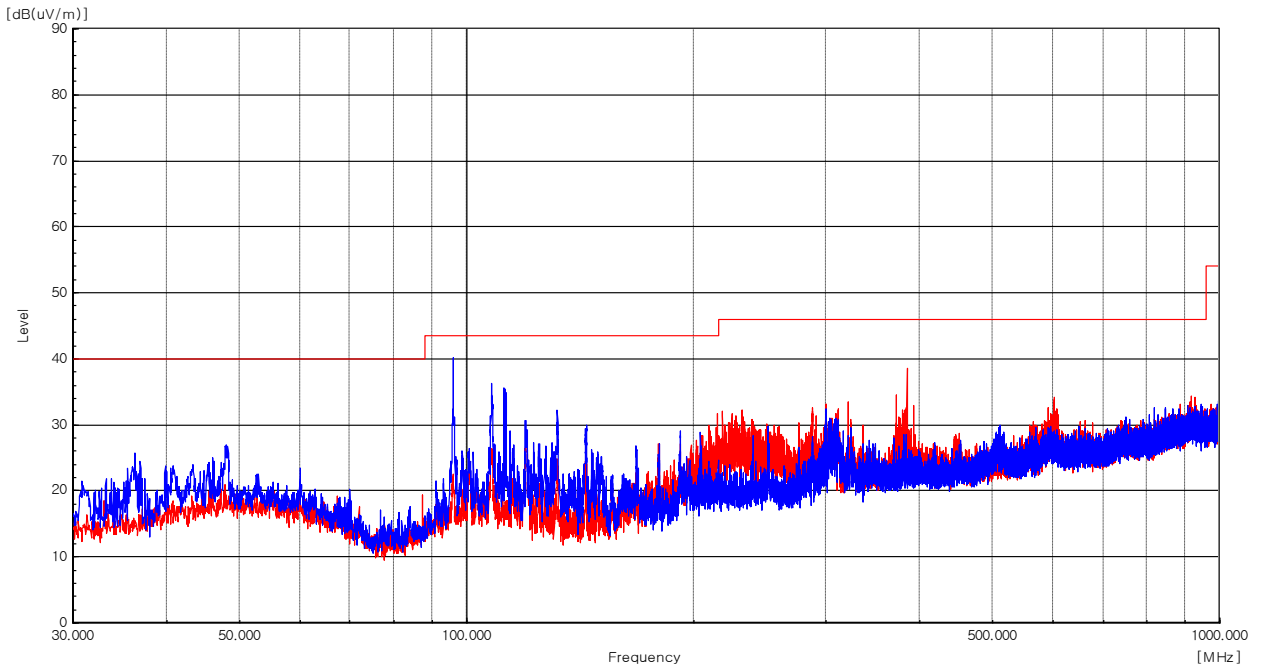
Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
38.90	33.90	V	45	102	18.16	0.49	28.20	24.35	40.00	15.65
110.00	46.10	V	290	100	17.40	1.33	28.18	36.65	43.50	6.85
143.58	42.00	H	200	260	13.70	1.40	28.11	28.99	43.50	14.51
288.00	44.60	H	0	109	18.96	1.77	27.64	37.69	46.00	8.31
385.90	38.00	H	125	100	21.14	2.45	27.72	33.87	46.00	12.13
604.00	34.60	H	330	190	25.38	3.02	28.71	34.29	46.00	11.71

3) Test Mode : Bluetooth LE(Ver 5.3)+WLAN 2.412 GHz(24 V)



Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
61.00	43.00	V	350	115	18.10	0.94	28.20	33.84	40.00	6.16
93.20	47.20	V	185	102	16.64	1.00	28.20	36.64	43.50	6.86
141.10	42.00	V	100	111	13.80	1.40	28.12	29.08	43.50	14.42
194.00	44.30	V	85	105	16.90	1.52	27.92	34.80	43.50	8.70
378.60	39.00	V	240	100	20.87	2.41	27.67	34.61	46.00	11.39
558.00	38.00	H	145	110	23.76	2.62	28.62	35.76	46.00	10.24

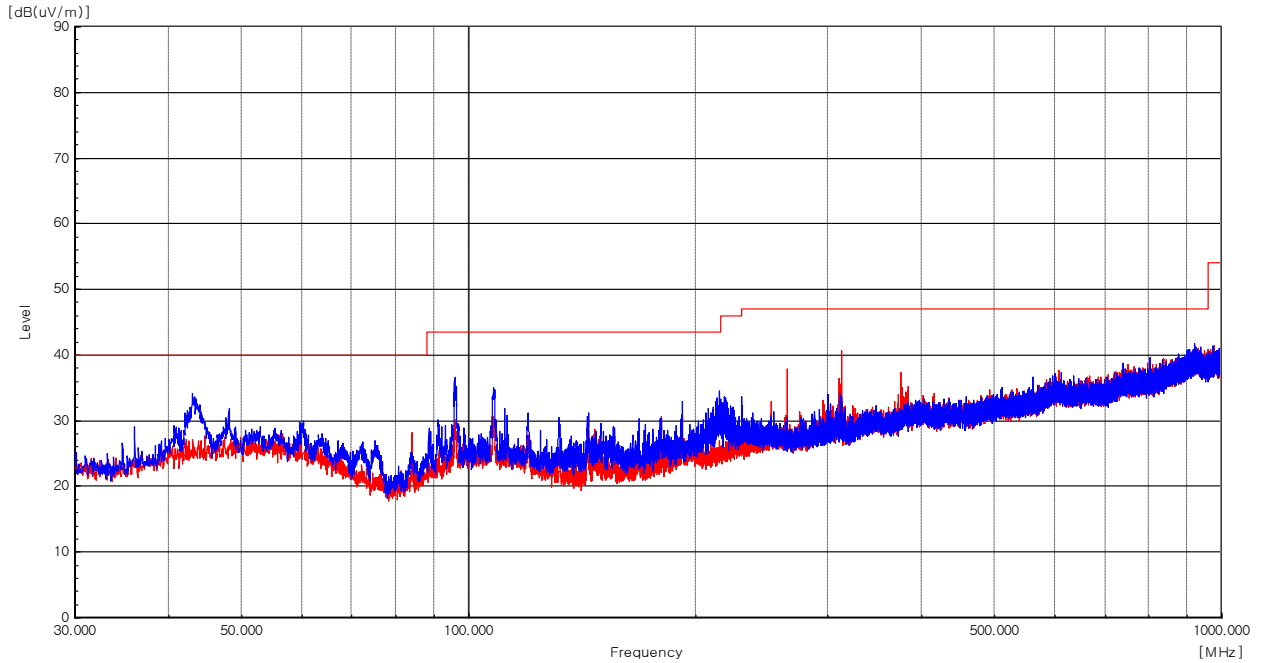
4) Test Mode : REX (24 V)



Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
47.00	33.30	V	180	100	19.70	0.63	28.20	25.43	40.00	14.57
95.00	38.60	V	85	109	17.00	1.02	28.20	28.42	43.50	15.08
234.00	37.30	H	125	117	17.86	1.61	27.80	28.97	46.00	17.03
322.10	37.00	H	235	104	19.53	1.84	27.56	30.81	46.00	15.19
385.50	39.10	H	150	100	21.12	2.45	27.71	34.96	46.00	11.04
603.00	34.30	H	125	110	25.36	2.93	28.71	33.88	46.00	12.12

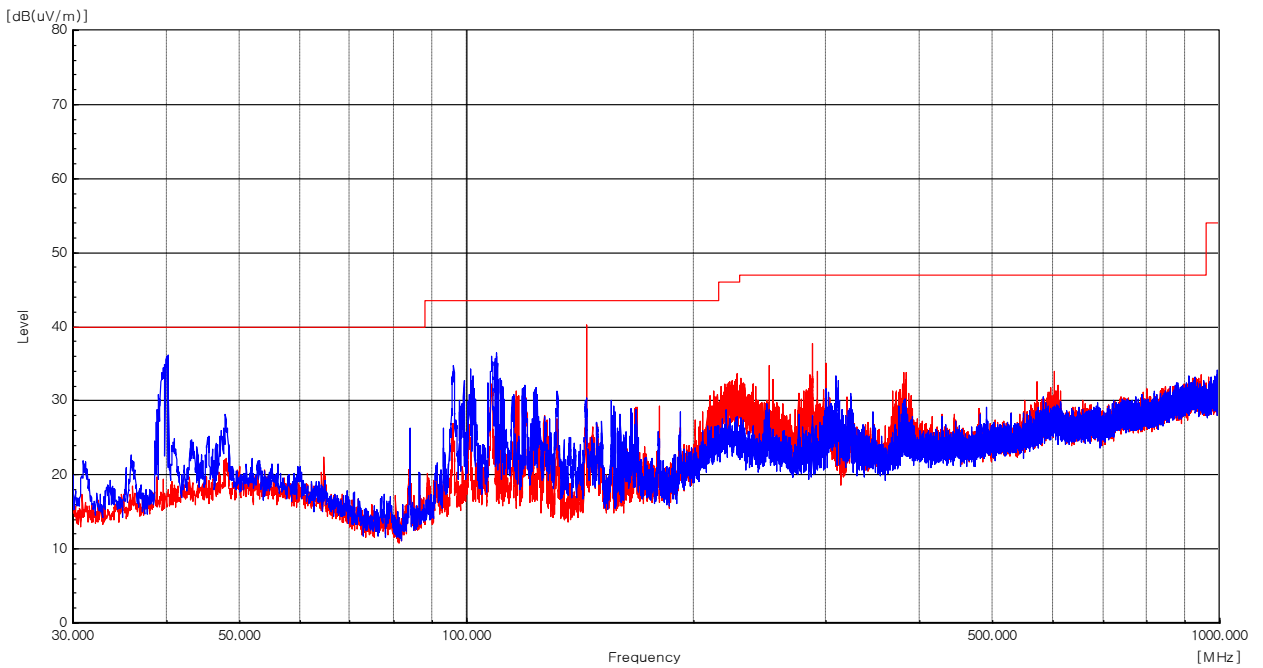
[ICES-003 Issue 7:2020]

1) Test Mode : Bluetooth LE(Ver 5.3)+WLAN 2.412 GHz(5 V)



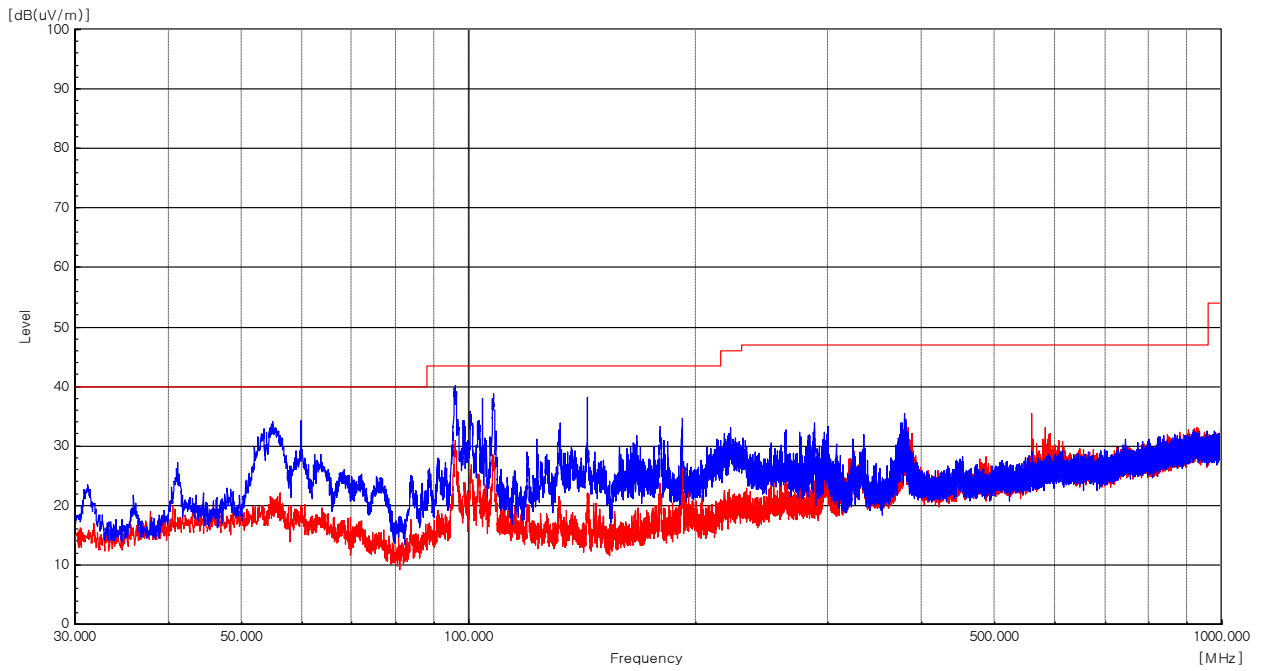
Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
42.30	39.50	V	345	103	19.06	0.54	28.20	30.90	40.00	9.10
97.00	44.20	V	85	110	17.30	1.04	28.20	34.34	43.50	9.16
215.00	40.30	V	150	106	16.90	1.52	27.86	30.87	43.50	12.64
264.50	27.20	H	150	108	18.31	1.77	27.71	19.57	46.00	26.43
310.20	26.00	H	244	101	19.20	1.97	27.58	19.59	46.00	26.41
375.20	34.50	H	133	100	20.80	2.18	27.65	29.83	46.00	16.17

2) Test Mode : REX (5 V)



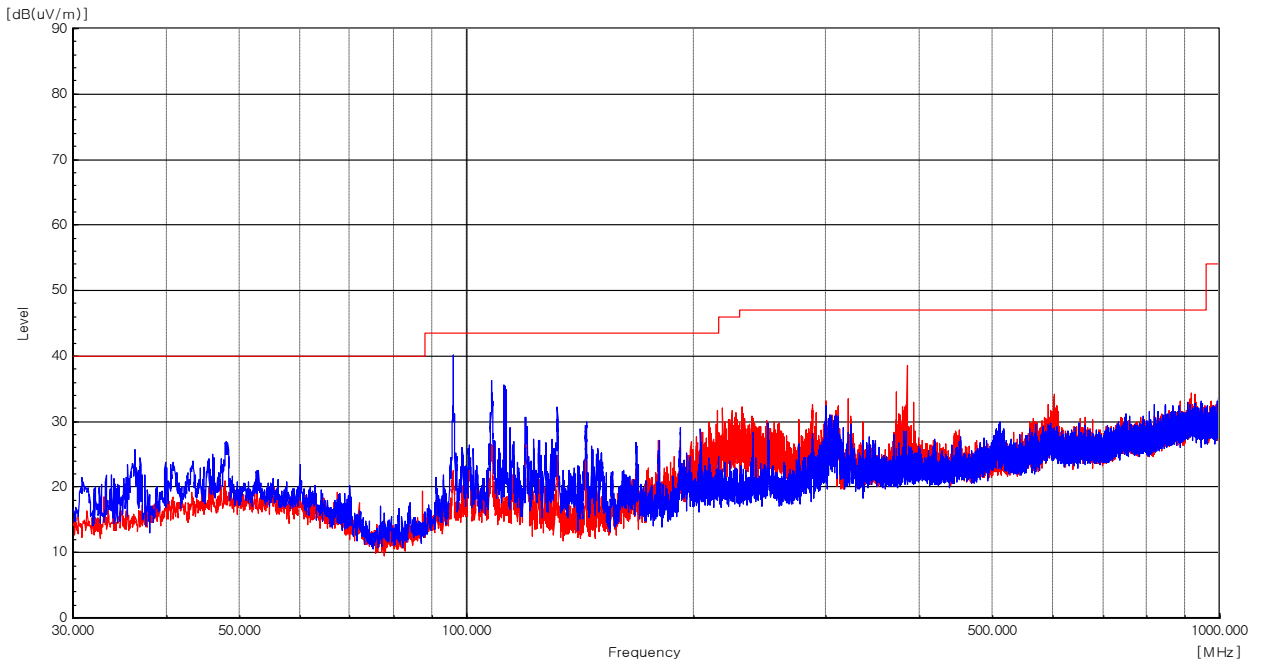
Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
39.00	34.00	V	45	102	18.20	0.49	28.20	24.49	40.00	15.51
110.20	46.00	V	290	100	17.40	1.33	28.18	36.55	43.50	6.95
143.00	42.20	H	200	260	13.70	1.40	28.11	29.19	43.50	14.31
288.00	44.40	H	0	109	18.96	1.77	27.64	37.49	46.00	8.51
385.80	38.30	H	125	100	21.13	2.45	27.71	34.17	46.00	11.83
604.30	34.60	H	330	190	25.39	3.05	28.71	34.33	46.00	11.67

3) Test Mode : Bluetooth LE(Ver 5.3)+WLAN 2.412 GHz(24 V)



Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
60.50	43.20	V	350	115	18.20	0.94	28.20	34.14	40.00	5.86
93.00	47.40	V	185	102	16.60	1.00	28.20	36.80	43.50	6.70
140.50	41.50	V	100	111	13.80	1.40	28.12	28.58	43.50	14.92
194.50	44.50	V	85	105	17.00	1.53	27.92	35.11	43.50	8.39
378.90	39.60	V	240	100	20.88	2.42	27.67	35.23	46.00	10.77
558.00	37.60	H	145	110	23.76	2.62	28.62	35.36	46.00	10.64

4) Test Mode : REX (24 V)



Freq. (MHz)	Reading (dB μ V)	Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB/m)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
46.80	33.00	V	180	100	19.68	0.62	28.20	25.10	40.00	14.90
94.80	38.40	V	85	109	16.96	1.02	28.20	28.18	43.50	15.32
233.00	37.50	H	125	117	17.82	1.62	27.80	29.14	46.00	16.86
322.50	36.80	H	235	104	19.55	1.85	27.56	30.65	46.00	15.36
385.00	39.00	H	150	100	21.10	2.45	27.71	34.84	46.00	11.16
603.00	34.00	H	125	110	25.36	2.93	28.71	33.58	46.00	12.42

Measurement Uncertainty : See the Appendix A

Note: • AF = Antenna Factor

• Pol. H = Horizontal

• H = Height

• CL = Cable Loss

• Pol. V = Vertical

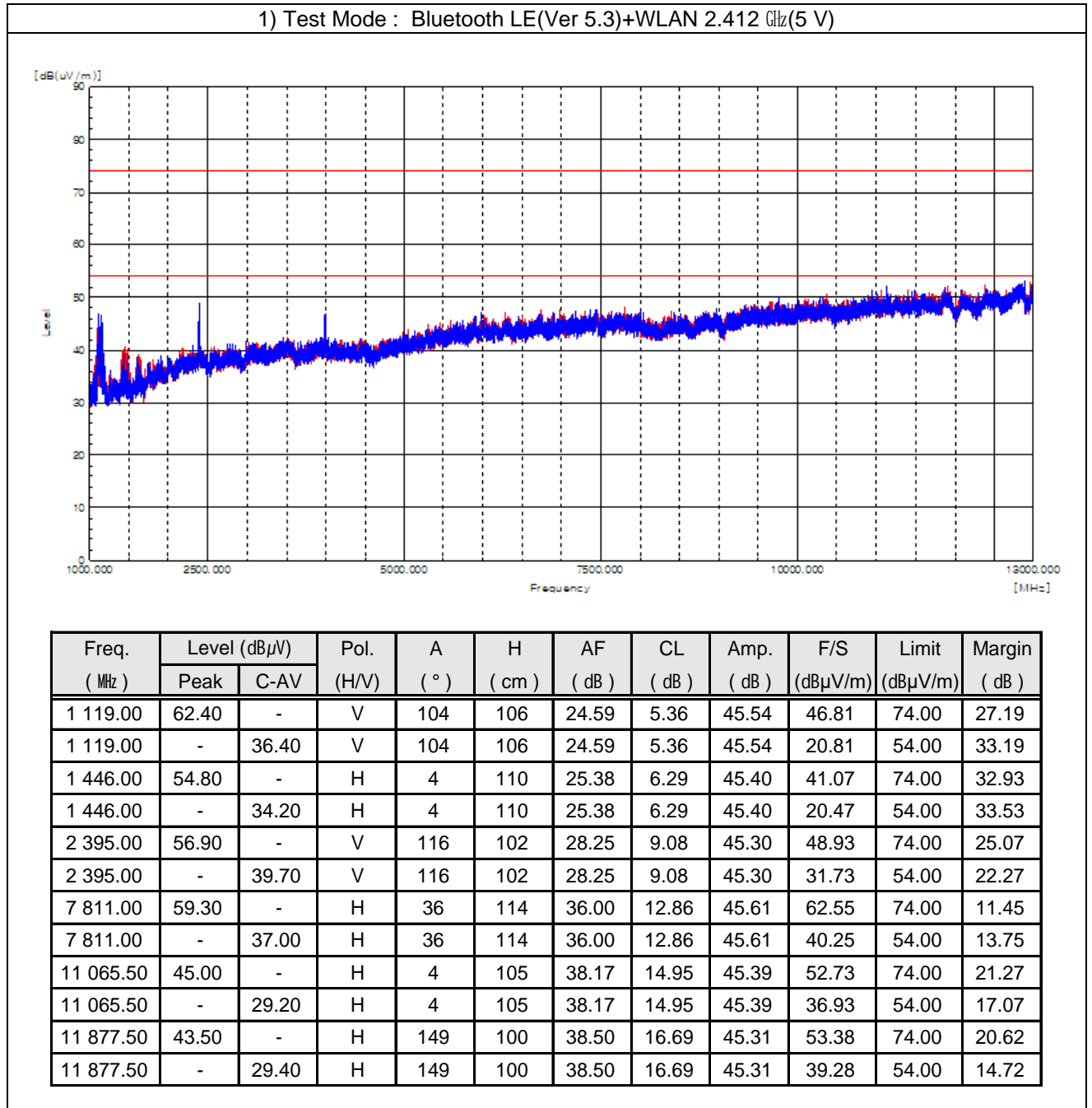
• Margin = Limit – Result

• Amp. = Amplifier Gain

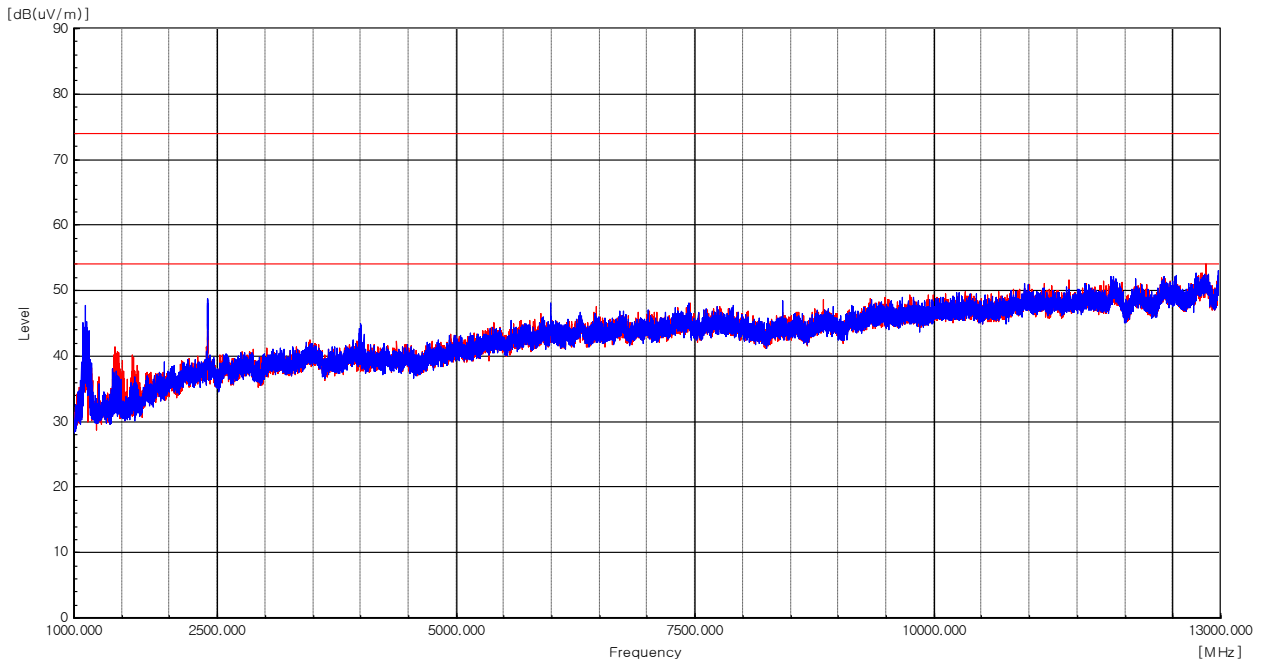
• A = Angle

• F/S = Level + AF + CL – AMP

Above 1 GHz (1 GHz - 18 GHz)(3 m method)

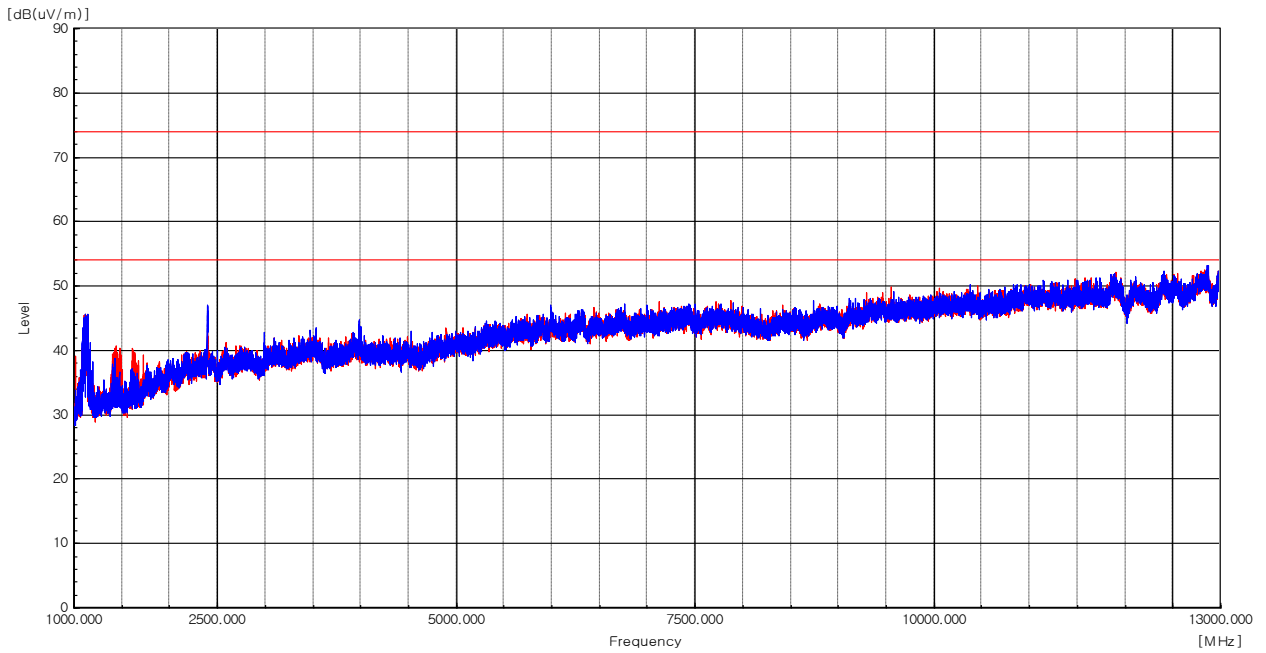


2) Test Mode : REX (5 V)



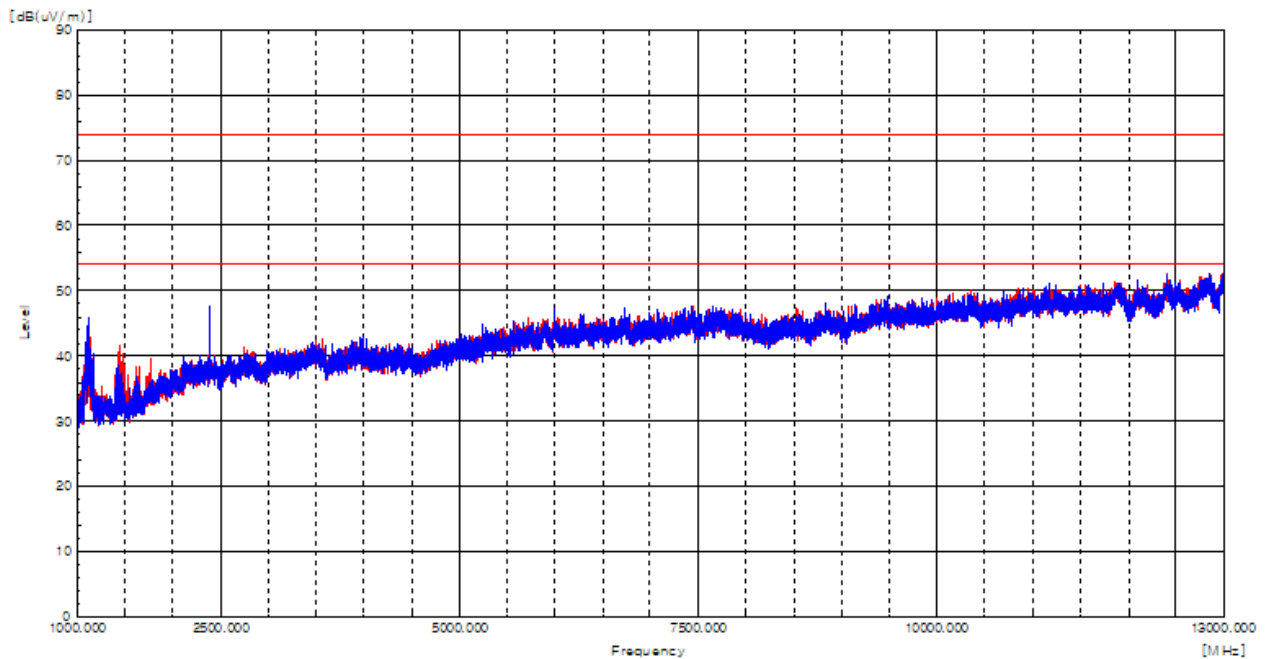
Freq. (MHz)	Level (dB μ V)		Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Peak	C-AV									
1 118.00	63.10	-	V	30	106	24.59	5.36	45.54	47.51	74.00	26.49
1 118.00	-	37.00	V	30	106	24.59	5.36	45.54	21.41	54.00	32.59
1 430.30	55.50	-	H	210	102	25.28	6.27	45.40	41.65	74.00	32.35
1 430.30	-	34.60	H	210	102	25.28	6.27	45.40	20.75	54.00	33.25
2 394.60	56.90	-	V	185	100	28.25	9.08	45.30	48.93	74.00	25.07
2 394.60	-	39.60	V	185	100	28.25	9.08	45.30	31.63	54.00	22.37
5 981.20	46.60	-	V	280	113	34.50	12.01	45.21	47.90	74.00	26.10
5 981.20	-	37.30	V	280	113	34.50	12.01	45.21	38.60	54.00	15.40
10 945.00	42.60	-	V	0	110	38.10	15.04	45.40	50.34	74.00	23.66
10 945.00	-	29.40	V	0	110	38.10	15.04	45.40	37.14	54.00	16.86
11 407.00	43.10	-	H	360	100	38.41	15.53	45.36	51.68	74.00	22.32
11 407.00	-	29.20	H	360	100	38.41	15.53	45.36	37.78	54.00	16.22

3) Test Mode : Bluetooth LE(Ver 5.3)+WLAN 2.412 GHz(24 V)



Freq. (MHz)	Level (dB μ V)		Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Peak	C-AV									
1 112.50	61.00	-	V	110	100	24.63	5.35	45.54	45.44	74.00	28.56
1 112.50	-	37.40	V	110	100	24.63	5.35	45.54	21.84	54.00	32.16
1 442.50	54.70	-	H	210	116	25.36	6.29	45.40	40.95	74.00	33.05
1 442.50	-	35.50	H	210	116	25.36	6.29	45.40	21.75	54.00	32.25
2 394.60	55.10	-	V	50	103	28.25	9.08	45.30	47.13	74.00	26.87
2 394.60	-	38.00	V	50	103	28.25	9.08	45.30	30.03	54.00	23.97
5 983.00	45.70	-	V	275	108	34.50	12.03	45.21	47.02	74.00	26.98
5 983.00	-	37.50	V	275	108	34.50	12.03	45.21	38.82	54.00	15.18
9 556.50	44.40	-	H	360	100	37.70	13.34	45.58	49.86	74.00	24.14
9 556.50	-	34.00	H	360	100	37.70	13.34	45.58	39.46	54.00	14.54
11 396.50	41.50	-	H	355	100	38.49	15.28	45.36	49.91	74.00	24.09
11 396.50	-	29.50	H	355	100	38.49	15.28	45.36	37.91	54.00	16.09

4) Test Mode : REX (24 V)



Freq. (MHz)	Level (dB μ V)		Pol. (H/V)	A ($^{\circ}$)	H (cm)	AF (dB)	CL (dB)	Amp. (dB)	F/S (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Peak	C-AV									
1 126.50	61.00	-	V	40	106	24.54	5.39	45.54	45.39	74.00	28.61
1 126.50	-	36.60	V	40	106	24.54	5.39	45.54	20.99	54.00	33.01
1 434.00	55.00	-	H	35	110	25.30	6.28	45.40	41.18	74.00	32.82
1 434.00	-	36.80	H	35	110	25.30	6.28	45.40	22.98	54.00	31.02
2 391.50	56.50	-	V	50	103	28.22	9.08	45.30	48.50	74.00	25.50
2 391.50	-	38.30	V	50	103	28.22	9.08	45.30	30.30	54.00	23.70
8 828.50	44.20	-	H	360	100	37.10	12.59	45.53	48.36	74.00	25.64
8 828.50	-	30.10	H	360	100	37.10	12.59	45.53	34.26	54.00	19.74
11 174.00	43.50	-	V	225	107	38.20	15.87	45.38	52.19	74.00	21.81
11 174.00	-	29.30	V	225	107	38.20	15.87	45.38	37.99	54.00	16.01
11 504.50	42.60	-	H	130	100	38.61	15.51	45.35	51.37	74.00	22.63
11 504.50	-	29.20	H	130	100	38.61	15.51	45.35	37.97	54.00	16.03

Measurement Uncertainty: See the Appendix A

- 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

Ex) In case

Freq ; 100 MHz, level ; 30 dB(μ V/m), AF ; 10 dB/m, CL ; 4 dB, Amp ; 25 dB

$$\begin{aligned} \text{Result} &= \text{Level} + \text{AF} + \text{CL} - \text{Amp} \\ &= 30 + 10 + 4 - 25 \\ &= 19 \end{aligned}$$

$$\begin{aligned} \text{Margin} &= \text{Limit} - \text{Result} \\ &= 43.5 - 19 \\ &= 24.5 \end{aligned}$$

Appendix A : Measurement Uncertainty

- Giheung Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission	ENV216	3.7 dB	(The confidential level is 95 %, $k=2$)
	ESH2-Z5	3.2 dB	(The confidential level is 95 %, $k=2$)
	ESH3-Z6	3.2 dB	(The confidential level is 95 %, $k=2$)
	NNLK8129	3.1 dB	(The confidential level is 95 %, $k=2$)
Conducted Emission - Signal	ISN T800	5.4 dB	(The confidential level is 95 %, $k=2$)
	ISN ST08	6.6 dB	(The confidential level is 95 %, $k=2$)
Discontinuous		2.7 dB (The confidential level is 95 %, $k=2$)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.3 dB (The confidential level is 95 %, $k=2$)
		Vertical	3.3 dB (The confidential level is 95 %, $k=2$)
	30 MHz ~ 1 000 MHz	Horizontal	4.3 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.6 dB (The confidential level is 95 %, $k=2$)
	1 GHz ~ 18 GHz	Horizontal	3.9 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.0 dB (The confidential level is 95 %, $k=2$)

- Gunpo Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission	ENV216	3.4 dB	(The confidential level is 95 %, $k=2$)
	ESH2-Z5	3.2 dB	(The confidential level is 95 %, $k=2$)
	ESH3-Z6	3.4 dB	(The confidential level is 95 %, $k=2$)
Conducted Emission - Signal	ISN T800	5.6 dB	(The confidential level is 95 %, $k=2$)
	ISNT8-Cat6	5.6 dB	(The confidential level is 95 %, $k=2$)
	ISN S751	7.3 dB	(The confidential level is 95 %, $k=2$)
Disturbance Voltage at Antenna Terminal		2.4 dB (The confidential level is 95 %, $k=2$)	
Radiated Emission	9 kHz ~30 MHz	Horizontal	3.3 dB (The confidential level is 95 %, $k=2$)
		Vertical	3.3 dB (The confidential level is 95 %, $k=2$)
	30 MHz ~ 1 000 MHz	Horizontal	4.8 dB (The confidential level is 95 %, $k=2$)
		Vertical	5.2 dB (The confidential level is 95 %, $k=2$)
	1 GHz ~ 18 GHz	Horizontal	3.9 dB (The confidential level is 95 %, $k=2$)
		Vertical	4.0 dB (The confidential level is 95 %, $k=2$)

- Dongtan Laboratory

Test Method		Measurement Uncertainty	
Conducted Emission	ENV216	3.4 dB (The confidential level is 95 %, k=2)	
	ESH2-Z5	3.1 dB (The confidential level is 95 %, k=2)	
	ESH3-Z6	3.1 dB (The confidential level is 95 %, k=2)	
	NNLK8129	3.1 dB (The confidential level is 95 %, k=2)	
Conducted Emission - Signal	ISN T800	5.4 dB (The confidential level is 95 %, k=2)	
	ISN ST08	5.4 dB (The confidential level is 95 %, k=2)	
	ISN S751	5.6 dB (The confidential level is 95 %, k=2)	
Discontinuous		3.1 dB (The confidential level is 95 %, k=2)	
disturbance Power		3.0 dB (The confidential level is 95 %, k=2)	
Radiated Emission	9 kHz ~30 MHz (Triple Loop Ant)	2.7 dB (The confidential level is 95 %, k=2)	
	9 kHz ~30 MHz	Horizontal	3.3 dB (The confidential level is 95 %, k=2)
		Vertical	3.3 dB (The confidential level is 95 %, k=2)
	30 MHz ~ 1 000 MHz	Horizontal	4.7 dB (The confidential level is 95 %, k=2)
		Vertical	4.7 dB (The confidential level is 95 %, k=2)
	1 GHz ~ 18 GHz	Horizontal	4.0 dB (The confidential level is 95 %, k=2)
Vertical		4.0 dB (The confidential level is 95 %, k=2)	

- End of Test Report -