



TEST REPORT

KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea Tel: 82-31-285-0894 Fax: 82-505-299-8311 www.kctl.co.kr	Report No.: KR21-SEF0086-A Page (1) of (24)	
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1. Client

- Name : Uniden America Corporation
- Address : 6225 N. State highway 161, Suite 300, Irving Texas 75038
- Date of Receipt : 2021-07-01

2. Use of Report : -

3. Name of Product / Model : RADAR DETECTOR / R4

4. Manufacturer / Country of Origin : ATTOWAVE Co., Ltd. / Korea

5. Date of Test : 2021-07-07 to 2021-07-22

6. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

7. Test method used : ANSI C63.4:2014, Class B

8. FCC ID : AMWUA2101

9. Test Results : Refer to the test result in the test report

Affirmation	Tested by Name : Byunghwan Min (Signature)	Technical Manager Name : Gunsu Park (Signature)
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2021-09-30

KCTL Inc.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.

REPORT REVISION HISTORY

Date	Revision	Page No
2021-08-04	Originally issued	-
2021-09-30	FCC ID modification.	1 Page

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Note. The report No. KR21-SEF0086 is superseded by the report No. KR21-SEF0086-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. Applicant information

Applicant: Uniden America Corporation
Address: 6225 N. State highway 161, Suite 300, Irving Texas 75038

Manufacturer: ATTOWAVE Co., Ltd.
Address: 1005, 10F Leader's Tower, 60-15 Gasan-dong, Gumchun-gu,
Seoul, 153-801 Korea

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2. Laboratory information

Address

KCTL Inc. (Suwon Lab.)

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea

Telephone Number: 82 31 285 0894

Facsimile Number: 82 505 299 8311

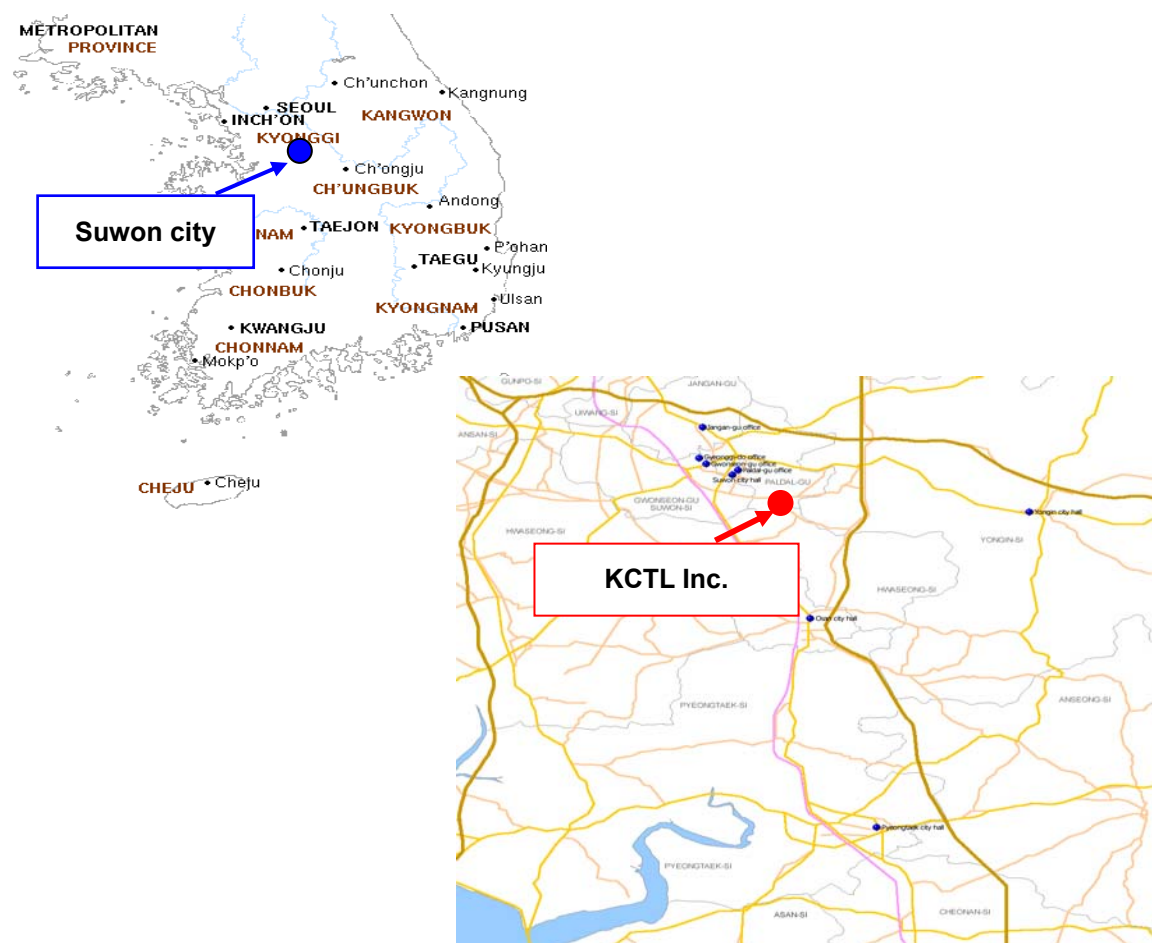
FCC Site Designation No: KR0040

VCCI Registration No.: R-20080, G-20078, C-20059, T-20056

Industry Canada Registration No. : 8035A

KOLAS NO.: KT231

SITE MAP



3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
Chamber 10 m (RE)	21.6 °C / 21.5 °C	41.4 % R.H. / 43.9 % R.H.	-
Shielded room(CE)	21.5 °C	43.6 % R.H.	-

Test site

These testing items were performed following locations;

Test item	Test site
Conducted Emission	Shielded Room
Radiated Emission	10 m Chamber

3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted Emission measurement (Confidence level about 95 %, $k = 2$)		
Shielded Room (CE#1)	9 kHz ~ 150 kHz:	3.50 dB
	150 kHz ~ 30 MHz:	3.06 dB
Shielded Room (CE#2)	9 kHz ~ 150 kHz:	3.05 dB
	150 kHz ~ 30 MHz:	3.06 dB
Radiated Emission measurement (Confidence level about 95 %, $k = 2$)		
10 m Chamber (4F)	30 MHz ~ 300 MHz	3 m: 5.36 dB
		10 m: 5.34 dB
	300 MHz ~ 1 000 MHz	3 m: 5.46 dB
		10 m: 5.44 dB
	1 GHz ~ 6 GHz	3 m: 6.24 dB
	6 GHz ~ 18 GHz	3 m: 6.60 dB
	18 GHz ~ 30 GHz	3 m: 6.72 dB
	30 GHz ~ 40 GHz	3 m: 6.14 dB
10 m Chamber (2F)	30 MHz ~ 300 MHz	3 m: 4.88 dB
		10 m: 4.86 dB
	300 MHz ~ 1 000 MHz	3 m: 4.94 dB
		10 m: 4.94 dB
	1 GHz ~ 6 GHz	3 m: 6.28 dB

3.3 Measurement Program

These test items were performed by software programs;

Test item	Measurement Program		Used
Conducted Emission	EP5CE_V 5.4.0(TOYO)		☒
Radiated Emission	2F	EP10/RE_Ver 2021.01.000 (TOYO)	☒
	4F	EP5RE_V 5.11.10(TOYO)	

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4. Description of EUT

4.1 General information

Radar

Receiver type : Dual conversion super-heterodyne

Antenna type : Linear polarized, self-contained

Detector type : Scanning frequency discriminator

Frequency operation : X-band; 10.525 GHz $\pm$ 0.025 GHz

K-band; 24.075 GHz $\pm$ 0.175 GHz

Ka-band (super-wide); 34.550 GHz $\pm$ 1.150 GHz

Laser

Receiver type : Pulsed laser signal receiver

Detector type : Digital signal pulse width discriminator

Optical sensor : Dual convex condenser lens and high speed photo diode detector,
950nm $\pm$ 150nm (nanometers)

General

Operating Temperature Range : -10° C to +70° C

Storage Temperature Range : -30° C to +95° C

Power requirements : 11V to 16V DC, 300 mA, negative ground

Dimensions HxWxL : 32.8 mm x 70.52 mm x 117.65 mm

4.2 Product description

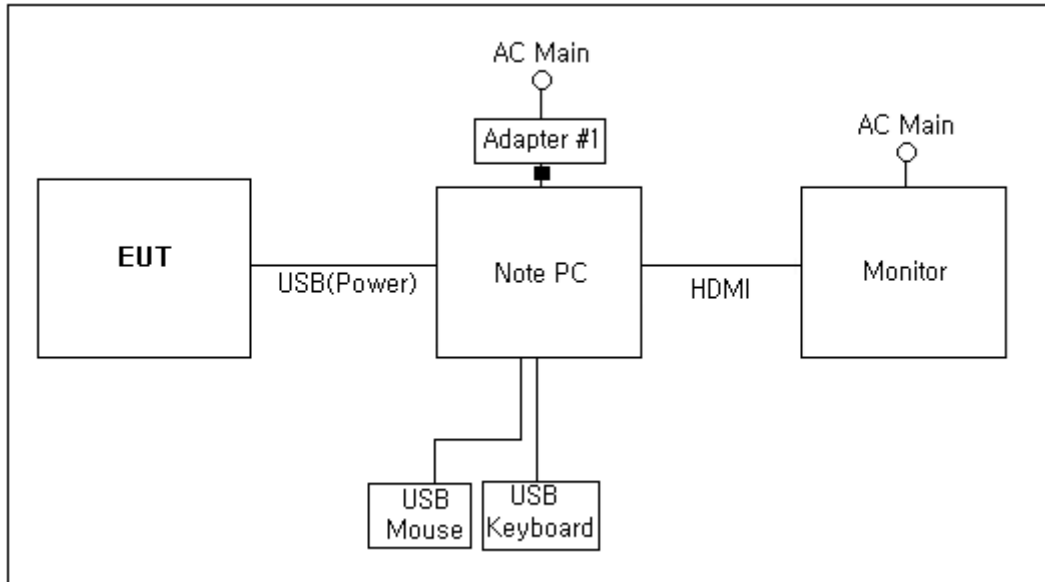
Type of product	RADAR DETECTOR
Model name (Basic)	R4
Model name (Variant)	-
Difference	-
Serial no	-
Testing voltage	120 V, 60 Hz (Power supplied from Note PC) DC 12 V
Input rating	DC 11 V ~ DC 16 V
Internal clock frequency	27 MHz
RF Frequency	Bluetooth_2 402 MHz ~ 2 480 MHz
Note	-The following accessory was provided by the manufacturer. 1) Bluetooth Module - FCC ID: W75-BTM0

4.3 Auxiliary equipments

Type	Model / Part #	S/N	Manufacturer	SDoC & FCC ID
Note PC	Latitude 7480	-	DELL	SDoC
Adapter #1	LA65NM130	-	(MFG)Lite-On Technology (Changzhou) Co.,Ltd.	-
USB Mouse	M-U0039	-	Logitech	SDoC
USB Keyboard	K120	1833SC52GXU8	Logitech	SDoC
Monitor	UN22D5003	Z3SJ3CRC812998D	SAMSUNG	SDoC
Mobile Phone	SM-N950	-	SAMSUNG	A3LSMN950 KOR
DC Power Supply	E3632A	MY40004594	Agilent	-
Headset	Jlab Bombora Over-Ear Headphones with Universal Mic	-	JLAB	-
Controller	-	-	-	-
Remote Control	W75-RL-RCU II			-
Button JIG	-	-	-	-
Destination JIG	-	-	-	-

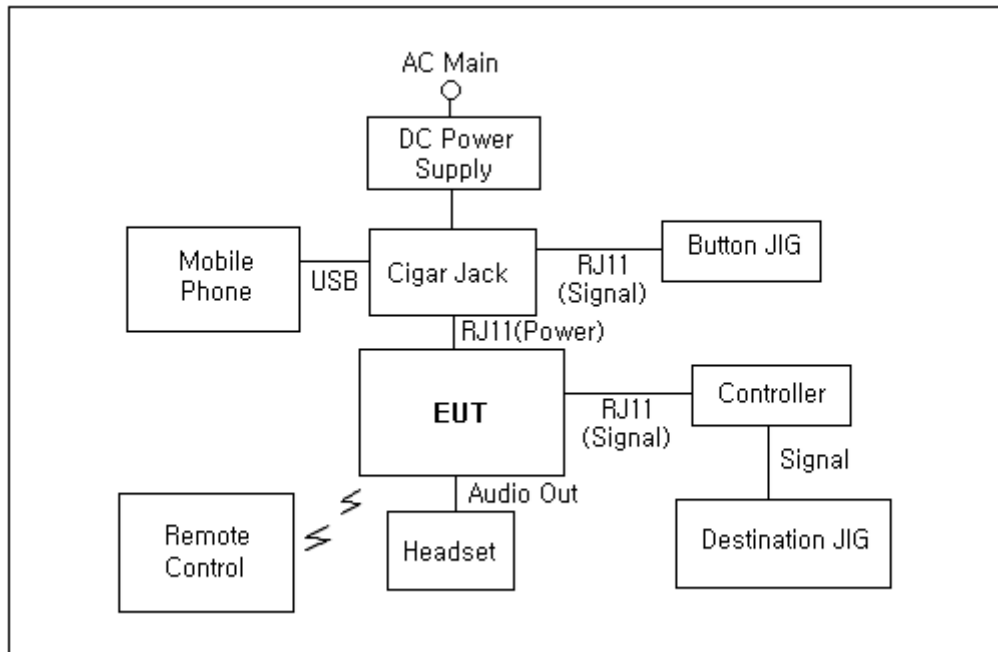
4.4 Test configuration

[Test #1]



	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT	USB(Power)	Note PC	USB	1.0	Shield
2	Note PC	Power	Adapter #1	-	1.5	Unshield (Core)
3		HDMI	Monitor	HDMI	2.0	Shield
4		USB	USB Mouse	-	1.5	Shield
5		USB	USB Keyboard	-	1.5	Shield

[Test #2]



	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT	RJ11(Power)	Cigar Jack	-	1.5	Unshield
2		Audio Out	Headset	-	2.0	Unshield
3		RJ11(Signal)	Controller	-	2.0	Unshield
4	Cigar Jack	Power	DC Power Supply	-	2.0	Unshield
5		USB	Mobile Phone	USB	1.5	Shield
6		RJ11(Signal)	Button JIG	-	2.0	Unshield
7	Controller	Signal	Destination JIG	-	3.0	Unshield

4.5 Operating conditions

The EUT was configured as normal intended use.

Test mode	Normal operating
Test #1	Connect with a USB Cable between EUT and Note PC and use the 'Uniden FCC Tool' program to check and test data communication.
Test #2	A signal is printed to the Destination JIG using the Remote Control to check the signal on the LCD screen of the EUT, and the sound of the signal is checked by the Headset

5. Summary of test results

5.1 Summary of EMI emission test results

Applied	Test items	Test method	Result
☒	Conducted Emission	ANSI C63.4:2014, Class B FCC Part 15 Subpart B	Pass
☒	Radiated Emission	ANSI C63.4:2014, Class B FCC Part 15 Subpart B	Pass

The data collected shows that EUT the complied with technical requirements of above rules part 15.107(a), (d) and 15.109(a).

6. Test results

6.1 Conducted Emissions

Testing voltage	120 V, 60 Hz		
Test facility	Shielded room (CE#2)		
Date	2021-07-22		
Temperature (°C)	21.5 °C	Humidity (% R.H.)	43.6 % R.H.
Remarks	Pass		

6.1.1 Limits of conducted emissions measurement

Frequency [MHz]	Class A (dB(μ V))		Class B (dB(μ V))	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79	66	66 ~ 56 ¹⁾	56 ~ 46 ¹⁾
0.5 ~ 5	73	60	56	46
5 ~ 30	73	60	60	50

¹⁾ The limit decreases linearly with the logarithm of frequency

6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement.

6.1.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
EMI TEST RECEIVER	ESCI	100710	R&S	2022.04.14	☒
TWO-LINE V-NETWORK	ENV216	101584	R&S	2022.04.05	☒
TWO-LINE V-NETWORK	NNLK8121	8121-472	SCHWARZBECK	2021.08.20	☒

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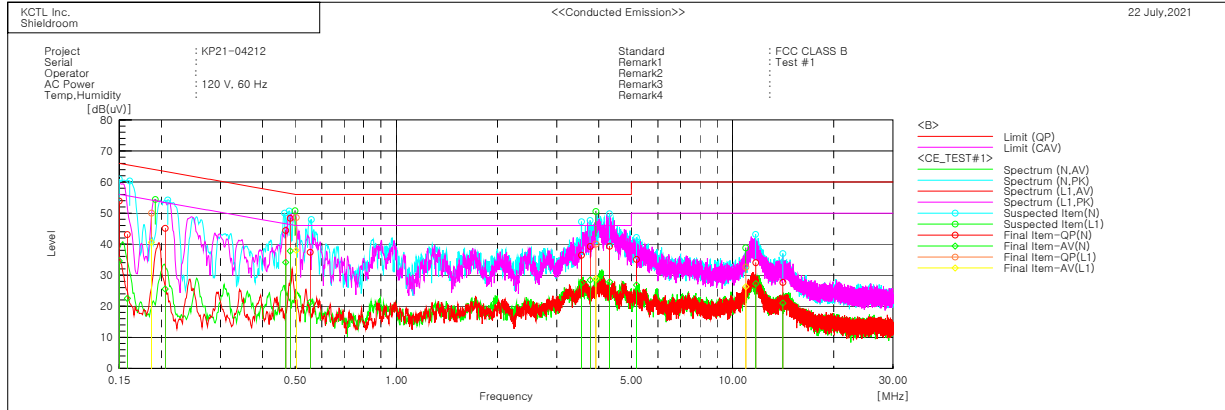
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6.1.4 Conducted emissions measurement result

AC Main



Final Result

--- N Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15006	44.2	24.9	9.7	53.9	34.6	66.0	56.0	12.1	21.4
2	0.15849	33.3	12.7	9.8	43.1	22.5	65.5	55.5	22.4	33.0
3	0.20548	35.3	15.8	9.8	45.1	25.6	63.4	53.4	18.3	27.8
4	0.46881	34.6	24.4	9.8	44.4	34.2	56.5	46.5	12.1	12.3
5	0.48402	38.5	28.0	9.8	48.3	37.8	56.3	46.3	8.0	8.5
6	0.55466	27.6	11.5	9.8	37.4	21.3	56.0	46.0	18.6	24.7
7	3.55618	26.7	17.8	9.7	36.4	27.5	56.0	46.0	19.6	18.5
8	3.77455	29.5	18.7	9.7	39.2	28.4	56.0	46.0	16.8	17.6
9	4.30838	29.6	18.2	9.7	39.3	27.9	56.0	46.0	16.7	18.1
10	5.17923	25.4	17.1	9.7	35.1	26.8	60.0	50.0	24.9	23.2
11	11.71865	24.2	17.4	9.8	34.0	27.2	60.0	50.0	26.0	22.8
12	14.11511	17.9	11.2	9.8	27.7	21.0	60.0	50.0	32.3	29.0

--- L1 Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18702	40.1	30.7	9.9	50.0	40.6	64.2	54.2	14.2	13.6
2	0.50417	38.8	28.2	9.8	48.6	38.0	56.0	46.0	7.4	8.0
3	3.92239	30.3	19.2	9.7	40.0	28.9	56.0	46.0	16.0	17.1
4	10.95257	22.8	16.5	9.8	32.6	26.3	60.0	50.0	27.4	23.7

6.2 Radiated Emission

Testing voltage		120 V, 60 Hz		
Test facility		10 m Chamber (4F)		
Test distance		3 m		
Date		2021-07-07 / 2021-07-22		
07-07	Temperature (°C)	21.6 °C	Humidity (% R.H.)	41.4 % R.H.
07-22		21.5 °C		43.9 % R.H.
Remarks		Pass		

6.2.1 Limits of radiated emission measurement

	Class A at 10 m QP(dB(μV/m))		Class B at 3 m QP(dB(μV/m))	
Frequency [MHz]	FCC ¹⁾	ISED (ICES Issue 7)	FCC ¹⁾	ISED (ICES Issue 7)
30-88	39.1	40.0	40.0	40.0
88-216	43.5	43.5	43.5	43.5
216-230	46.4	46.4	46.0	46.0
230-960	46.4	47.0	46.0	47.0
Above 960	49.5	49.5	54.0	54.0

- ¹⁾: Alternative standard: CISPR, Pub. 22

- Test data in this section has been taken against the FCC 15.109(a) or (B) Limit as it is the most stringent limit.

By complying with more restrictive FCC 15.109 Limit compliance with the ICES-003 Issue 7 limit also demonstrated.

6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.

Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

6.2.3 Used equipments

Equipment	Model no.	Serial no.	Makers	Next Cal. Date	Used
EMI TEST RECEIVER	ESR7	101078	R&S	2021.08.20	☒
Bilog Antenna	CBL 6112D	37876	TESEQ	2022.12.08	☒
AMPLIFIER	310N	293004	SONOMA	2021.08.20	☒
ATTENUATOR	8491B	MY39270292	AGILENT	-	☒
Antenna Mast	MA4640-XP-ET	-	Innco Systems	-	☒
Turn Table	TT 3.0-3t	-	MATURO	-	☒
DOUBLE RIDGED HORN ANTENNA	3117	00161083	ETS-LINDGREN	2021.09.23	☒
Broadband Preamplifier	BBV9718	9718-233	SCHWARZBECK	2021.08.20	☒
SIGNAL ANALYZER	FSV40	100988	R&S	2021.12.23	☒

6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

$$\text{Result} = \text{M.R} + \text{C.F}(\text{A.F} + \text{C.L} + 6 \text{ dB Att} - \text{A.G})$$

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G = Amplifier Gain

6 dB Att = 6 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 6 dB, A.G 35 dB

The result is $30 + 12 + 5 + 6 - 35 = 18 \text{ dB } (\mu\text{V/m})$

Bilog Antenna and ATTENUATOR (6 dB) were calibrated together.

AV = CAV : Abbreviation of CISPR Average

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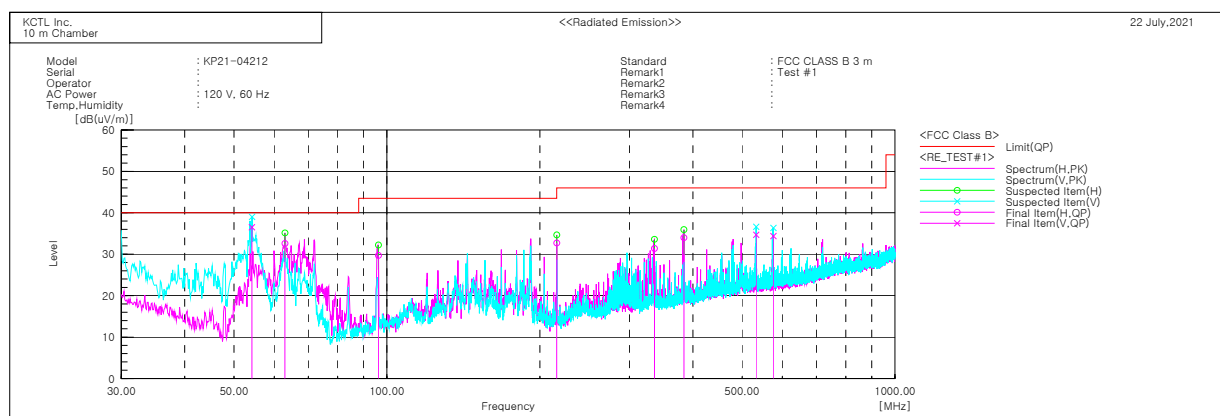
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6.2.5 Radiated emission measurement result

30 MHz ~ 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	54.231	V	52.5	-16.0	36.5	40.0	3.5	191.0	247.0
2	62.978	H	48.8	-16.2	32.6	40.0	7.4	392.0	6.0
3	96.212	H	41.2	-11.5	29.7	43.5	13.8	371.0	331.0
4	215.987	H	42.3	-9.6	32.7	43.5	10.8	400.0	25.0
5	336.161	H	35.0	-3.6	31.4	46.0	14.6	341.0	347.0
6	384.060	H	35.8	-1.8	34.0	46.0	12.0	211.0	1.0
7	533.051	V	32.5	2.2	34.7	46.0	11.3	159.0	146.0
8	576.254	V	31.1	3.3	34.4	46.0	11.6	118.0	43.0

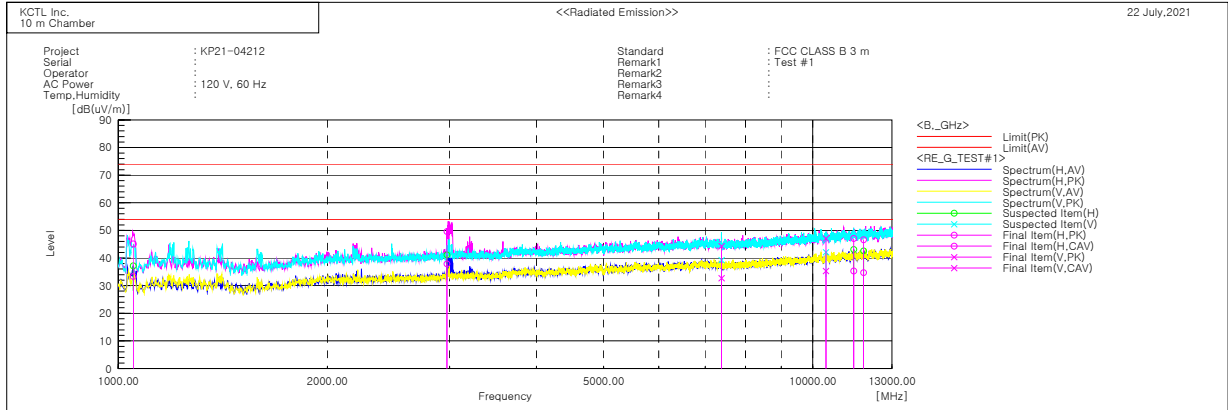
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1 GHz ~ 13 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	1051.090	H	51.1	39.3	-6.0	45.1	33.3	74.0	54.0	28.9	20.7	150.0	250.0
2	2973.887	H	50.6	38.9	-1.0	49.6	37.9	74.0	54.0	24.4	16.1	229.0	175.0
3	7389.273	V	37.9	26.3	6.4	44.3	32.7	74.0	54.0	29.7	21.3	137.0	228.0
4	10444.450	V	37.7	25.9	9.4	47.1	35.3	74.0	54.0	26.9	18.7	173.0	15.0
5	11452.600	H	36.0	24.2	11.1	47.1	35.3	74.0	54.0	26.9	18.7	186.0	30.0
6	11835.130	H	35.3	23.4	11.3	46.6	34.7	74.0	54.0	27.4	19.3	316.0	39.0

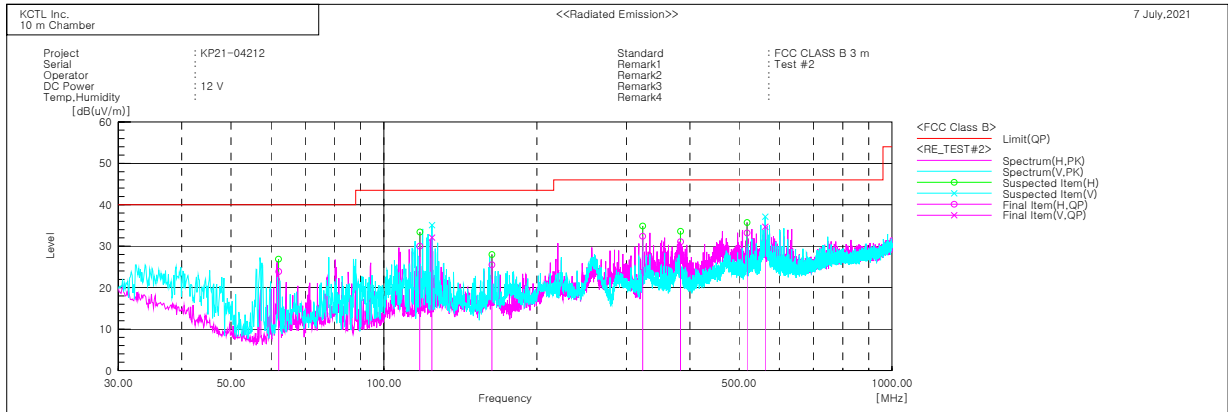
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30 MHz ~ 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	62.088	H	40.1	-16.2	23.9	40.0	16.1	286.0	224.0
2	117.619	H	39.7	-9.7	30.0	43.5	13.5	397.0	252.0
3	124.306	V	41.7	-9.6	32.1	43.5	11.4	177.0	242.0
4	163.191	H	36.2	-10.7	25.5	43.5	18.0	271.0	328.0
5	322.990	H	36.5	-4.1	32.4	46.0	13.6	312.0	35.0
6	383.511	H	32.9	-1.8	31.1	46.0	14.9	400.0	240.0
7	518.713	H	31.1	2.1	33.2	46.0	12.8	373.0	52.0
8	562.894	V	31.8	2.9	34.7	46.0	11.3	115.0	353.0

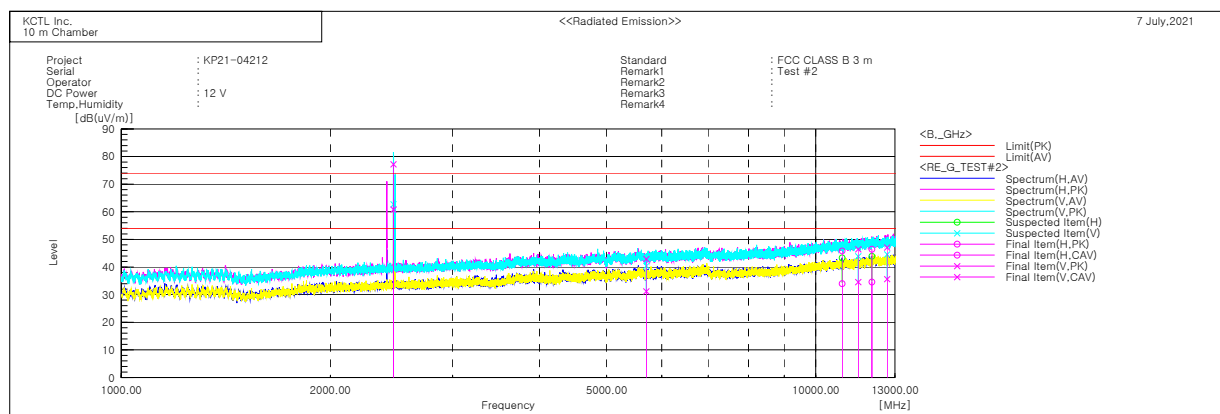
KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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1 GHz ~ 13 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]
1	2465.947	V	77.7	61.3	-0.5	77.2	60.8	74.0	54.0	-3.2	-6.8	100.0	130.0
2	5697.857	V	38.9	27.2	4.0	42.9	31.2	74.0	54.0	31.1	22.8	293.0	358.0
3	10907.550	H	36.3	24.5	9.5	45.8	34.0	74.0	54.0	28.2	20.0	174.0	271.0
4	11506.060	V	35.5	23.7	10.9	46.4	34.6	74.0	54.0	27.6	19.4	277.0	10.0
5	12041.880	H	34.6	22.8	11.8	46.4	34.6	74.0	54.0	27.6	19.4	119.0	324.0
6	12667.780	V	35.4	23.9	11.7	47.1	35.6	74.0	54.0	26.9	18.4	147.0	69.0

No. 1 is the fundamental frequency. (2 465.947 MHz_Bluetooth)