

TEST REPORT

Eurofins KCTL Co.,Ltd. 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.: KR23-SRF0067 Page (1) of (27)	 KCTL
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1. Client

- Name : Golfzon. co., LTD
- Address : GOLFZON TOWER SEOUL 10~11F, 13F~17F, 19F, 735, Yeongdong-daero, Gangnam, Seoul, Republic of Korea
- Date of Receipt : 2022-07-21

2. Use of Report : Certification

3. Name of Product / Model : Portable Golfsensor_RADAR / GZ-GWRS-22

4. Manufacturer / Country of Origin : Teravalue Inc., / Korea

5. FCC ID : N5Y-GZ-GWRS-22

6. Date of Test : 2022-08-09 to 2022-11-24

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

8. Test method used : FCC Part 15 Subpart C, 15.249

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

Affirmation	Tested by Name : Taeyoung Kim 	Technical Manager Name : Harim Lee 
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2023-02-15

Eurofins KCTL Co.,Ltd.

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 Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2023-02-15	Originally issued	-

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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. General information

Client : Golfzon. co., LTD
 Address : GOLFZON TOWER SEOUL 10~11F, 13F~17F, 19F, 735, Yeongdong-daero,
 Gangnam, Seoul, Republic of Korea
 Manufacturer : Teravalue Inc.,
 Address : 70, Gasan digital 2-ro, Geumcheon-gu, Seoul, Republic of Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Portable Golfsensor_RADAR
 Model : GZ-GWRS-22
 Frequency range : 2 412 MHz ~ 2 462 MHz (WIFI_802.11b/g/n_HT20)
 2 402 MHz ~ 2 480 MHz (Bluetooth Low Energy)
 24 150 MHz (24 GHz radar sensor)
 Modulation technique : WIFI (802.11b/g/n20)_DSSS, OFDM
 GFSK (Bluetooth Low Energy)
 CW (24 GHz radar sensor)
 Number of channels : 11 ch (WIFI_802.11b/g/n_HT20)
 40 ch (Bluetooth Low Energy)
 Power source : DC 7.2 V
 Antenna specification : Cable dipole antenna (WIFI, Bluetooth Low Energy)
 Patch Array antenna (24 GHz radar sensor)
 Antenna gain : -8.68 dBi (WIFI, Bluetooth Low Energy)
 2.37 dBi (24 GHz radar sensor)
 Software version : Wave-R1-230201-146
 Hardware version : Wave Radar V1.0
 Operation temperature : -10 °C ~ 50 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
AC Adapter	Channel Well Technology	KPL-040F-VI	N/A	Input : 100-240V / 50/60Hz 1.7A Output : 12.0V/3.33A

2.2. Frequency/channel operations

This device contains the following capabilities:

Bluetooth Low Energy, WIFI (802.11b/g/n HT20), 24 GHz radar sensor

Ch.	Frequency (GHz)
-	24.15

Table 2.2.1 24 GHz radar sensor

2.3. Simultaneous Tx Condition

Test mode	WLAN 2.4GHz	Bluetooth LE	24.15 GHz Radar sensor
Case1	O	-	O
Case2	-	O	O

3. Antenna requirement

Requirement of FCC part section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4. Summary of tests

FCC Part section(s)	Parameter	Test Condition	Test results
15.215(c)	20 dB Bandwidth	Radiated	Pass
15.249 (a),(d),(e)	Field strength of fundamental & harmonic		Pass
15.207(a)	AC Conducted Emissions		Pass

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
3. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in X orientation.
4. The test procedure(s) in this report were performed in accordance as following.
 - ♦ ANSI C63.10-2013

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (\pm)	
Radiated spurious emissions	9 kHz ~ 30 MHz	2.4 dB
	30 MHz ~ 1 000 MHz	2.3 dB
	1 000 MHz ~ 18 000 MHz	5.6 dB
	Above 18 000 GHz	5.7 dB
	Above 40 000 GHz	5.6 dB
Conducted emissions	9 kHz ~ 150 kHz	1.6 dB
	150 kHz ~ 30 MHz	1.7 dB

6. Test results

6.1. 20 dB Bandwidth

Limit

According to §15.215(c) and RSS-Gen(6.7), For Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

Test procedure

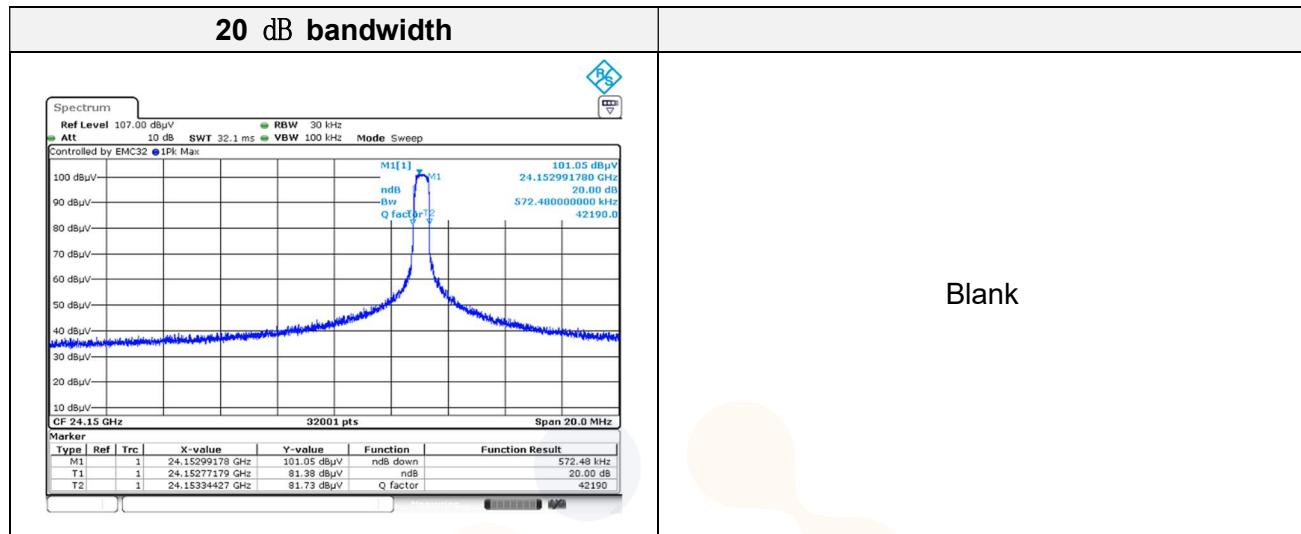
ANSI C63.10 – Section 6.9.2, 6.9.3

Occupied bandwidth (or 20 dB emission bandwidth)

The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band

Test results

Frequency(GHz)	20 dB bandwidth(MHz)	99% bandwidth(MHz)
24.05-24.25	0.57	0.56

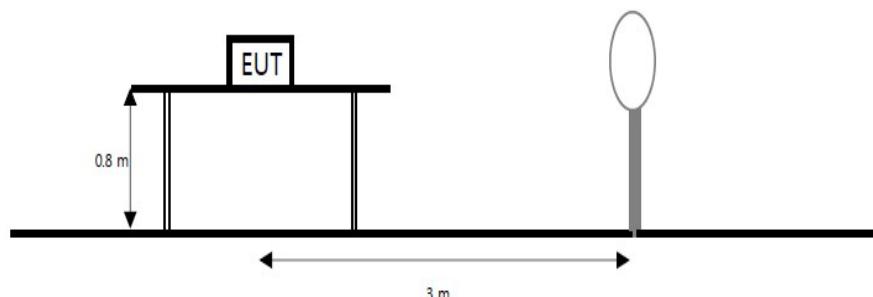
**Note:**

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

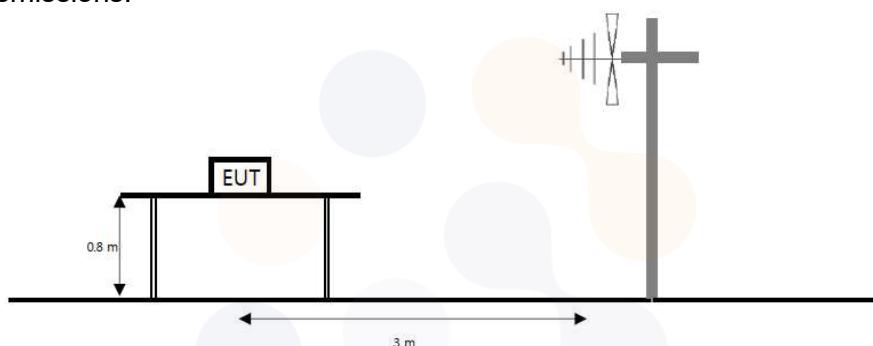
6.2. Field strength of fundamental & harmonic

Test setup

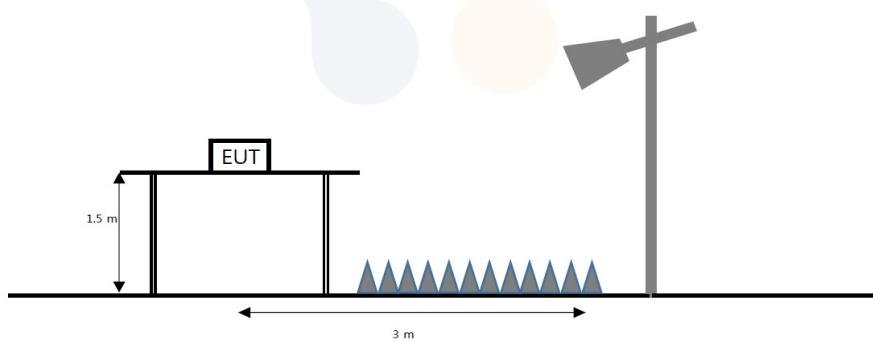
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz emissions.



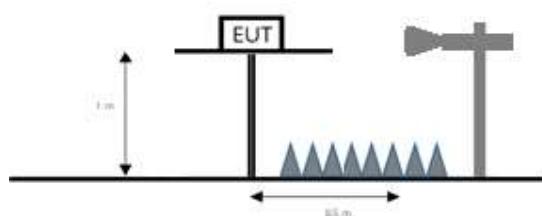
The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 40 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from Above 40 GHz emissions.



Limit

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (μ V/m)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section 15.231 and 15.241.

According to section 15.249(a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field strength of fundamental (mV/m)	Field strength of fundamental (μ V/m)
902 – 928	50	500
2 400 – 2 483.5	50	500
5 725 – 5 875	50	500
24 000 – 24 250	250	2 500

(b) Fixed, point-to-point operation as referred to in this paragraph shall be limited to systems employing a fixed transmitter transmitting to a fixed remote location. Point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information are not allowed. Fixed, point-to-point operation is permitted in the 24.05–24.25 GHz band subject to the following conditions:

- (1) The field strength of emissions in this band shall not exceed 2 500 millivolts/meter.
- (2) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.001\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
- (3) Antenna gain must be at least 33 dBi. Alternatively, the main lobe beamwidth must not exceed 3.5 degrees. The beamwidth limit shall apply to both the azimuth and elevation planes. At antenna gains over 33 dBi or beamwidths narrower than 3.5 degrees, power must be reduced to ensure that the field strength does not exceed 2 500 millivolts/meter.

(c) Field strength limits are specified at a distance of 3 meters.

Notes:

1. $f < 30$ MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40\log(D_m/D_s)$
2. $f \geq 30$ MHz, extrapolation factor of 20 dB/decade of distance. $F_d = 20\log(D_m/D_s)$

Where:

F_d = Distance factor in dB

D_m = Measurement distance in meters

D_s = Specification distance in meters

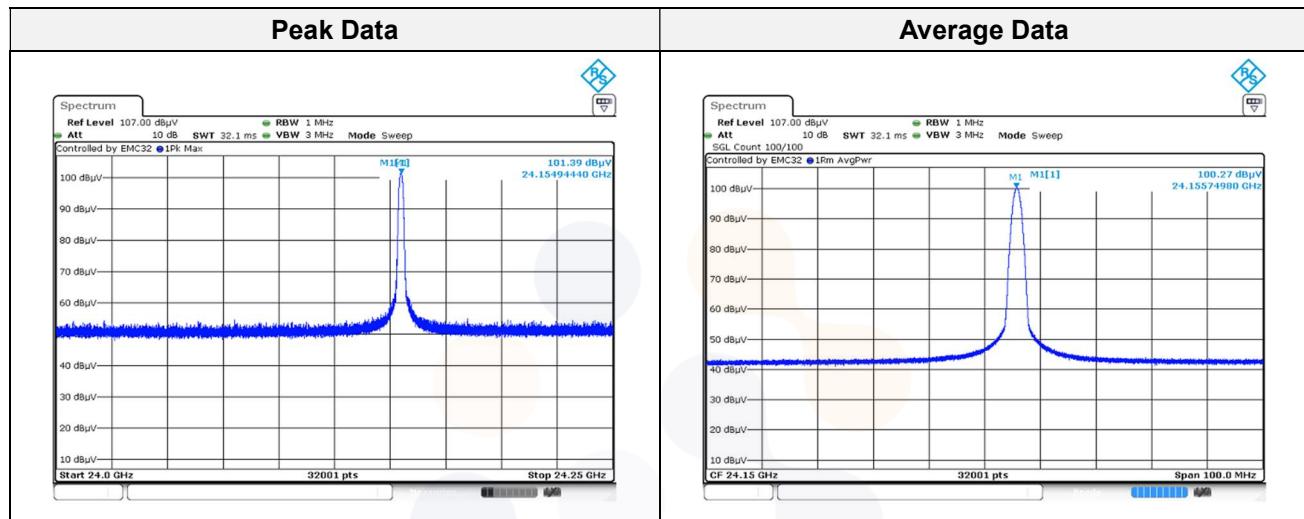
2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or F_d (dB)
3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
4. ¹⁾ means restricted band
5. Average test would be performed if the peak result were greater than the average limit.



Test results

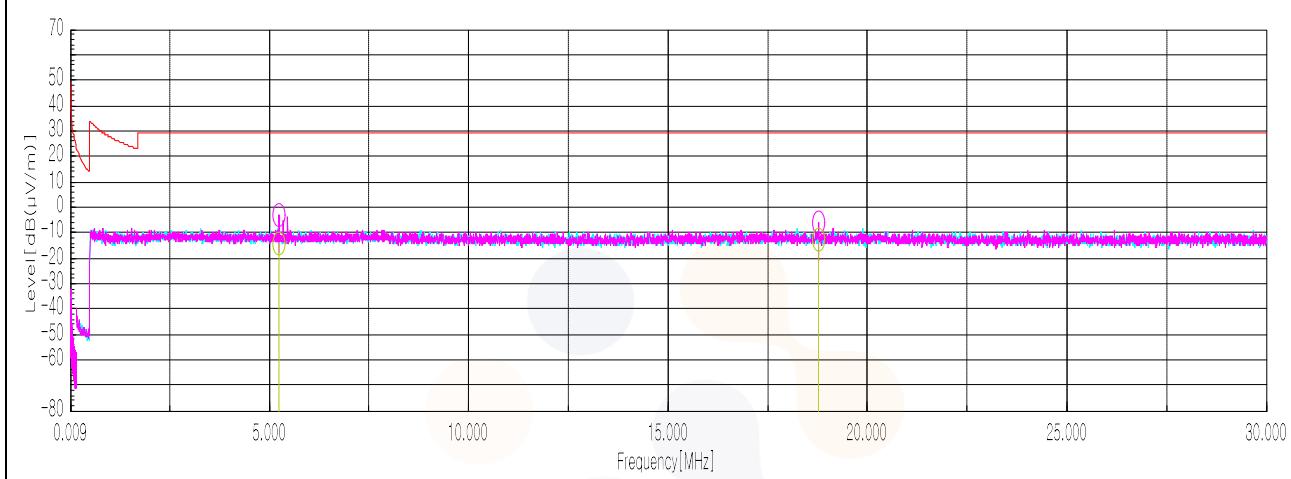
(Field strength of fundamental)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
24 155.75	V	101.39	45.56	-41.92	-	105.03	127.96	22.93
Average Data								
24 155.75	V	100.27	45.56	-41.92	-	103.91	107.96	4.05



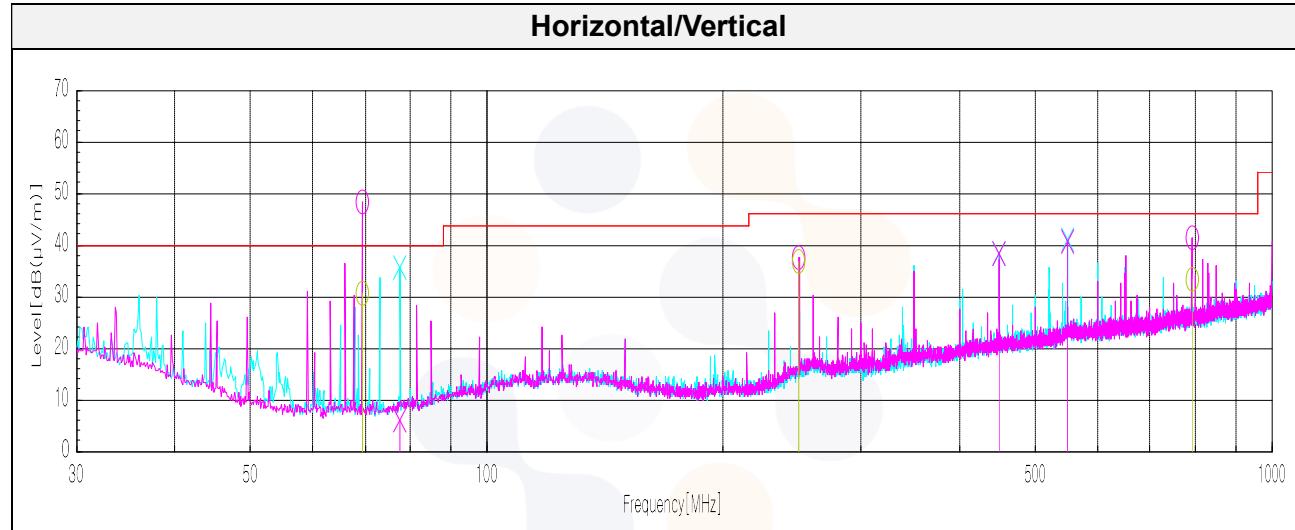
Test results (Below 30 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Quasi peak data								
5.25	H	37.20	20.19	-31.46	-	-14.07	29.50	43.57
18.78	H	36.90	20.63	-30.69	-	-13.16	29.50	42.66

Horizontal/Vertical

(30 ~ 1 000 MHz)

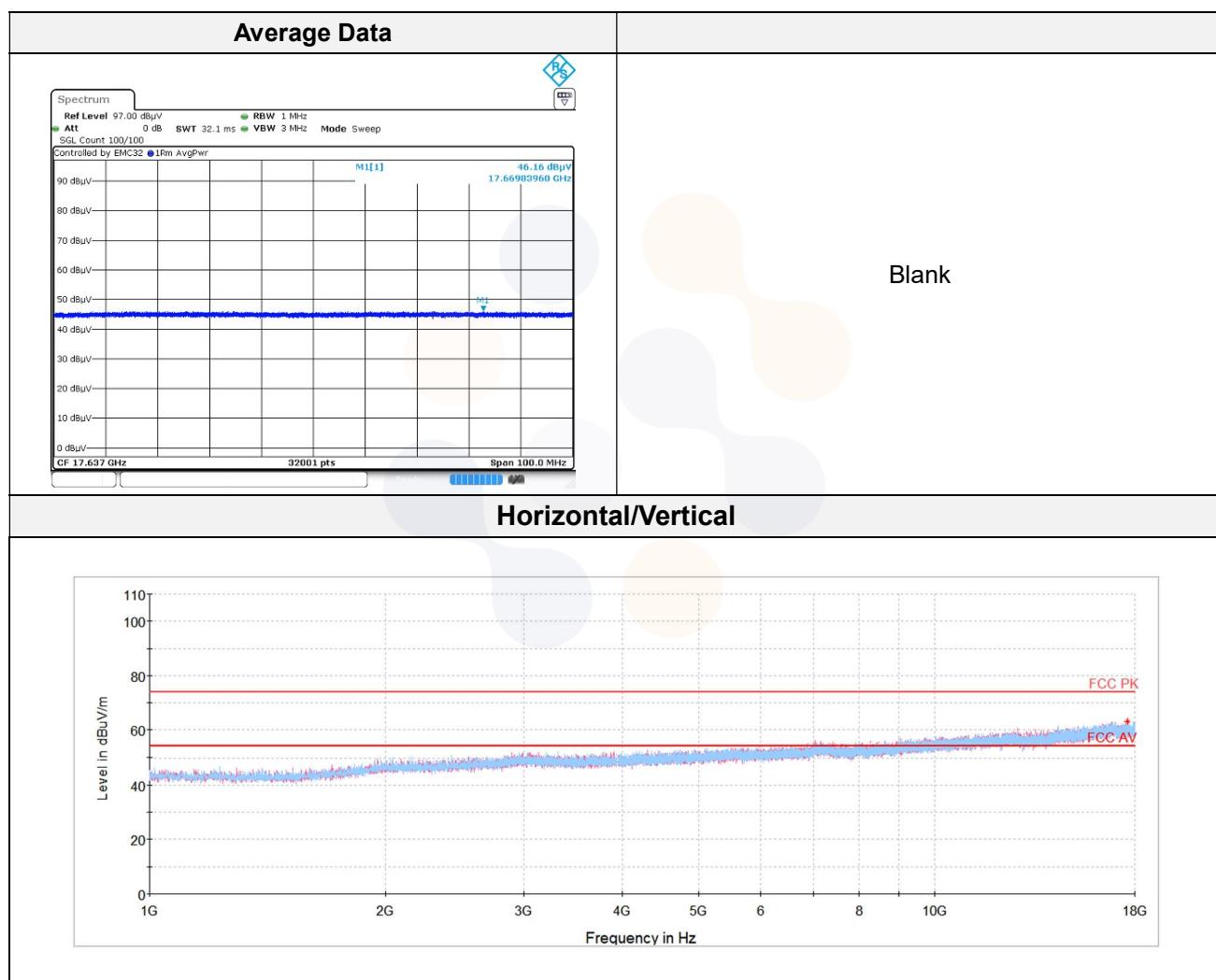
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Quasi peak data								
69.41	H	47.00	12.24	-28.68	-	30.56	40.00	9.44
77.53	V	21.50	12.75	-28.39	-	5.86	40.00	34.14
249.95 ¹⁾	H	44.10	18.39	-25.76	-	36.73	46.00	9.27
450.01	V	39.00	22.70	-23.37	-	38.33	46.00	7.67
550.04	V	37.90	24.80	-22.31	-	40.39	46.00	5.61
790.97	H	27.50	25.74	-19.92	-	33.32	46.00	12.68

Horizontal/Vertical

Test results

(1 000 ~ 18 000 MHz)

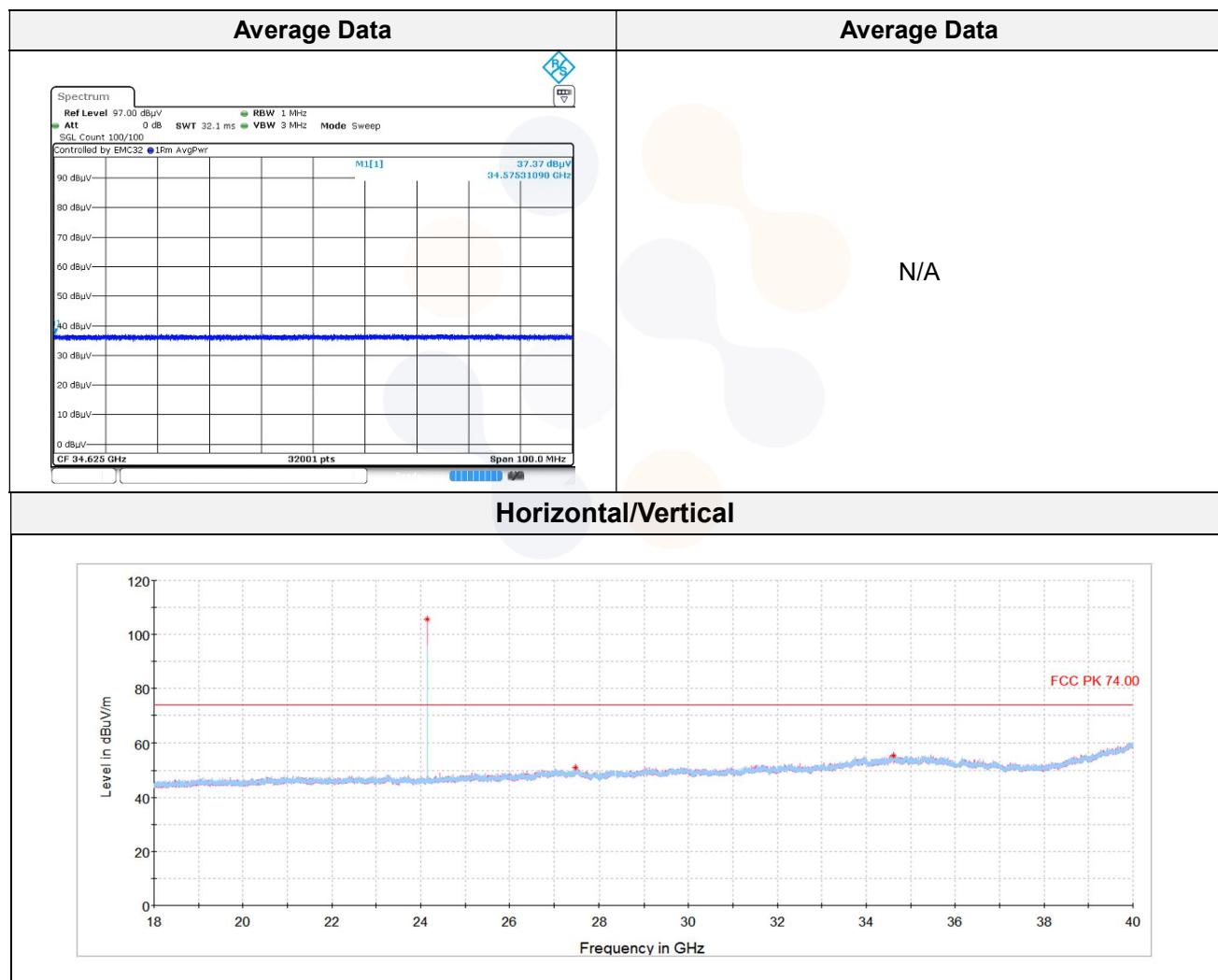
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
17 669.84	V	56.97	40.63	-34.44	-	63.16	74.00	10.84
Average Data								
17 669.84	V	46.16	40.63	-34.44	-	52.35	54.00	1.65



Test results

(18 000 ~ 40 000 MHz)

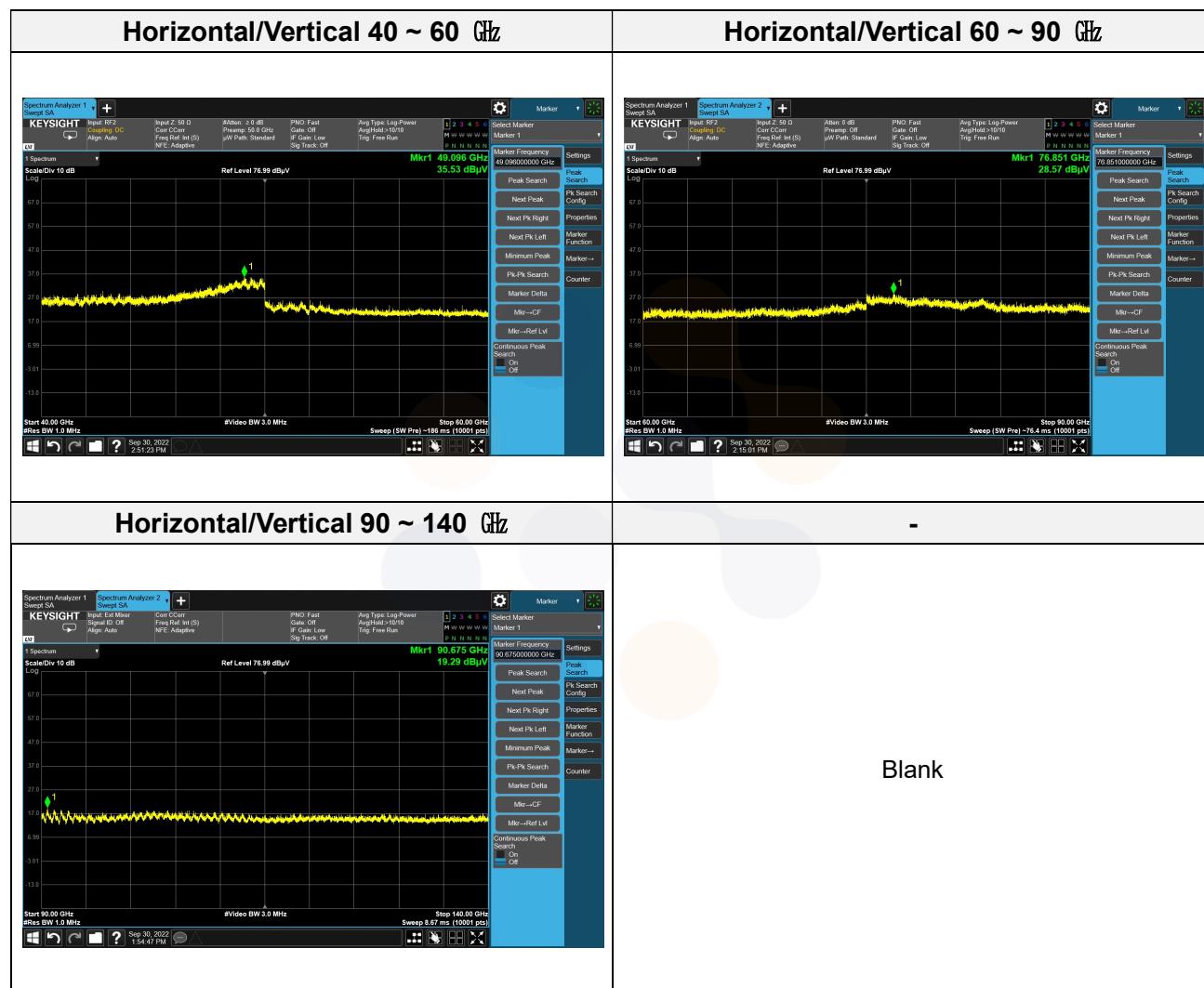
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
24 155.75*	V	102.03	45.56	-41.92	-	105.67	-	-
27 473.75	V	43.29	46.39	-38.63	-	51.05	74.00	22.95
34 575.31	H	43.11	48.92	-36.81	-	55.22	74.00	18.78
Average Data								
34 575.31	H	37.37	48.92	-36.81	-	49.48	54.00	4.52



* : Equipment's fundamental frequency, no need to evaluate it.

Test results
(40 000 ~ 140 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
No spurious emissions were detected.								



Spurious Emission for Simultaneous Tx Condition

Case1	24 GHz radar sensor	2.4 GHz WLAN
Mode	24.15 GHz radar sensor	802.11g
Channel	-	11
Frequency	24.15 GHz	2 462 MHz
Data Rate	-	6

Case2	24 GHz radar sensor	Bluetooth
Mode	24.15 GHz radar sensor	Bluetooth LE
Channel	-	40
Frequency	24.15 GHz	2 480 MHz
Data Rate	-	1M Bits/s, 37 Packet

Notes.

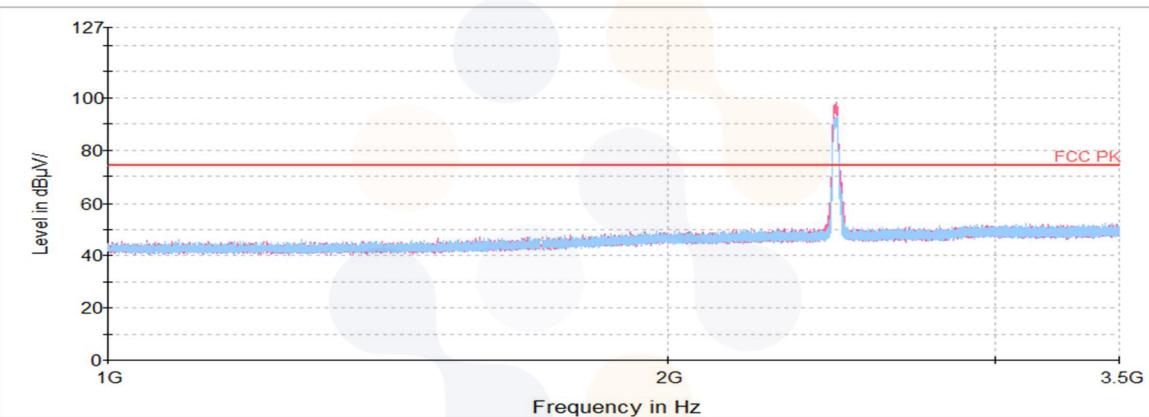
The lowest margin condition among the channels and modes were selected for test.

**Test results - Case1 : 802.11g_2 437 MHz + 24 GHz radar sensor
(1 000 ~ 40 000 MHz)**

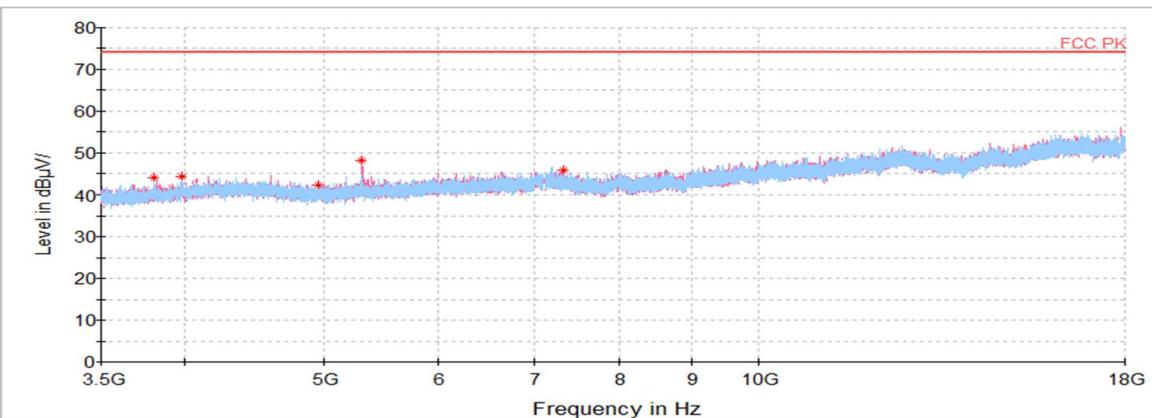
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ N))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
3 807.22 ¹⁾	H	65.11	33.28	-54.39	-	44.00	74.00	30.00
3 983.03 ¹⁾	H	64.85	33.39	-53.99	-	44.25	74.00	29.75
4 954.98 ¹⁾	V	61.87	33.61	-53.36	-	42.12	74.00	31.88
5 315.22	V	66.36	34.23	-52.41	-	48.18	74.00	25.82
7 323.47 ¹⁾	H	62.32	35.37	-51.98	-	45.71	74.00	28.29

Average Data

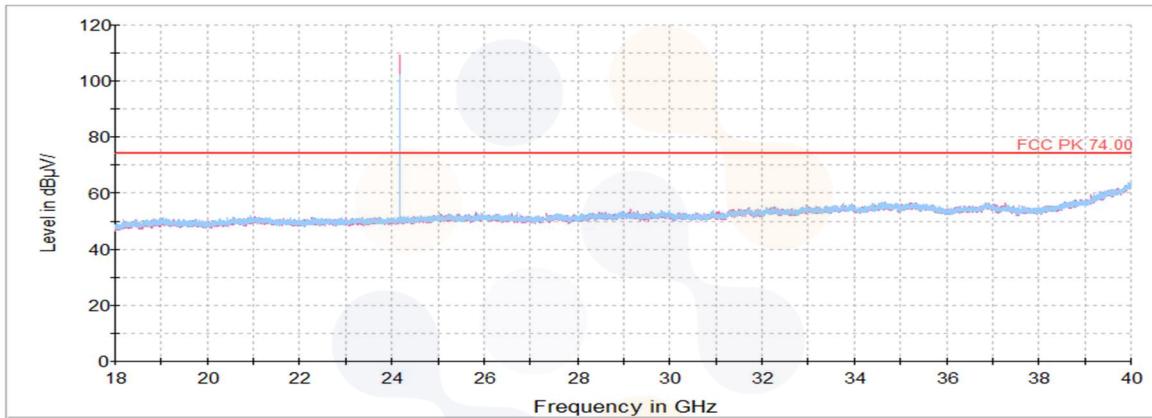
No spurious emissions were detected within 20 dB of the limit.

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

Horizontal/Vertical for 3.5 GHz ~ 18 GHz

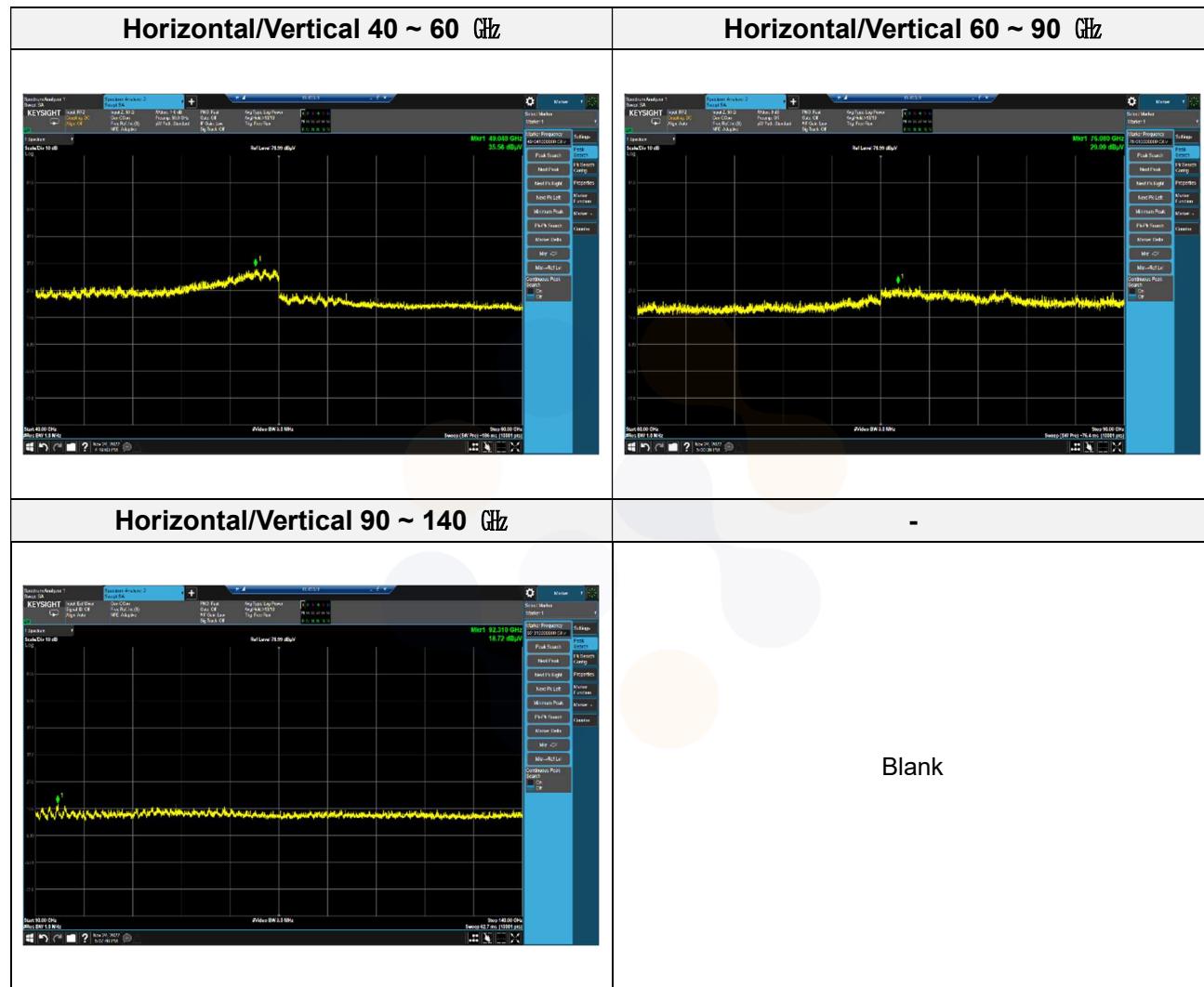


Horizontal/Vertical for 18 GHz ~ 40 GHz



(40 000 ~ 140 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
No spurious emissions were detected.								



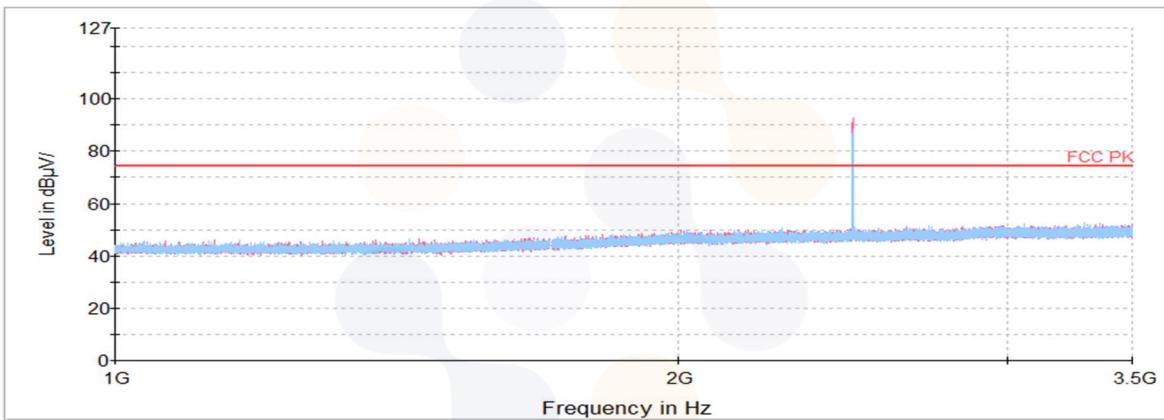
Test results - Case2 : Bluetooth LE _2 480 MHz + 24 GHz radar sensor
(1 000 ~ 40 000 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ N))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
3 981.67 ¹⁾	H	65.22	33.39	-53.99	-	44.62	74.00	29.38
4 955.89 ¹⁾	V	62.83	33.61	-53.36	-	43.08	74.00	30.92
5 311.59	V	63.53	34.22	-52.40	-	45.35	74.00	28.65
6 638.80	V	62.13	35.36	-51.49	-	46.00	74.00	28.00
7 379.66 ¹⁾	V	62.25	35.35	-52.21	-	45.39	74.00	28.61

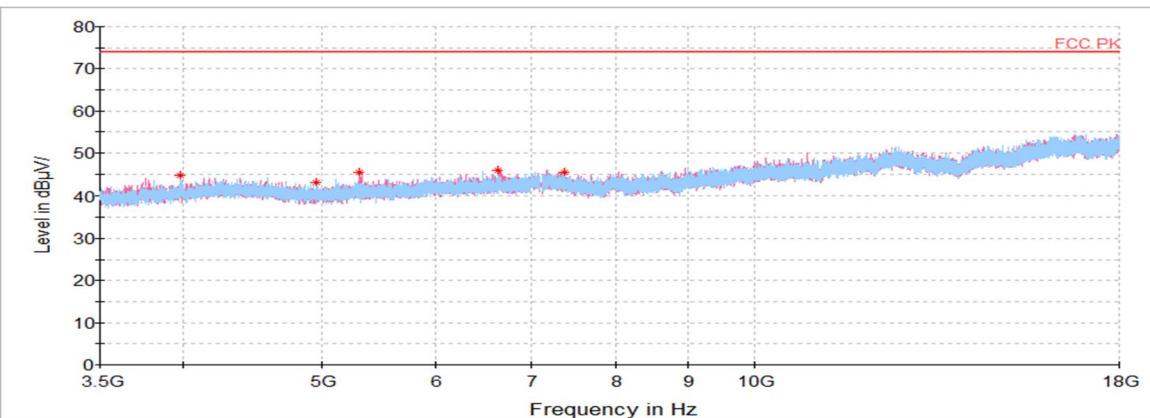
Average Data

No spurious emissions were detected within 20 dB of the limit.

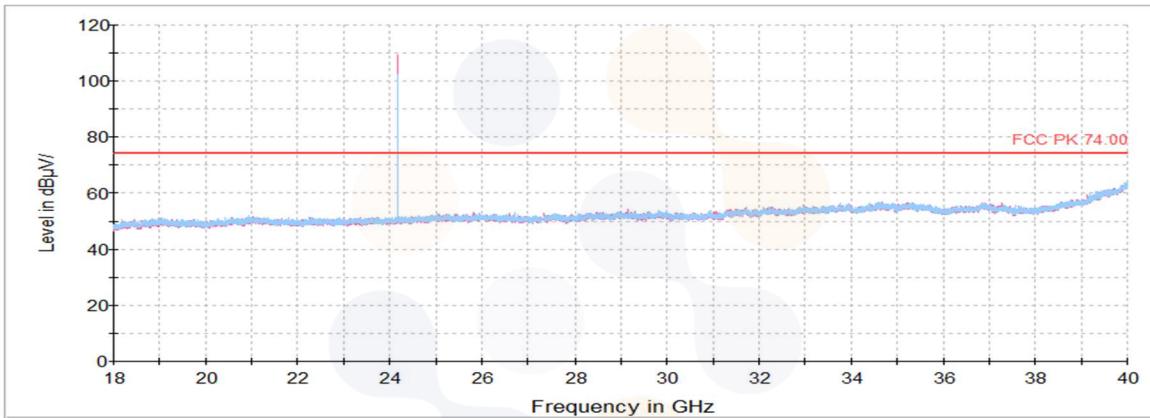
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz

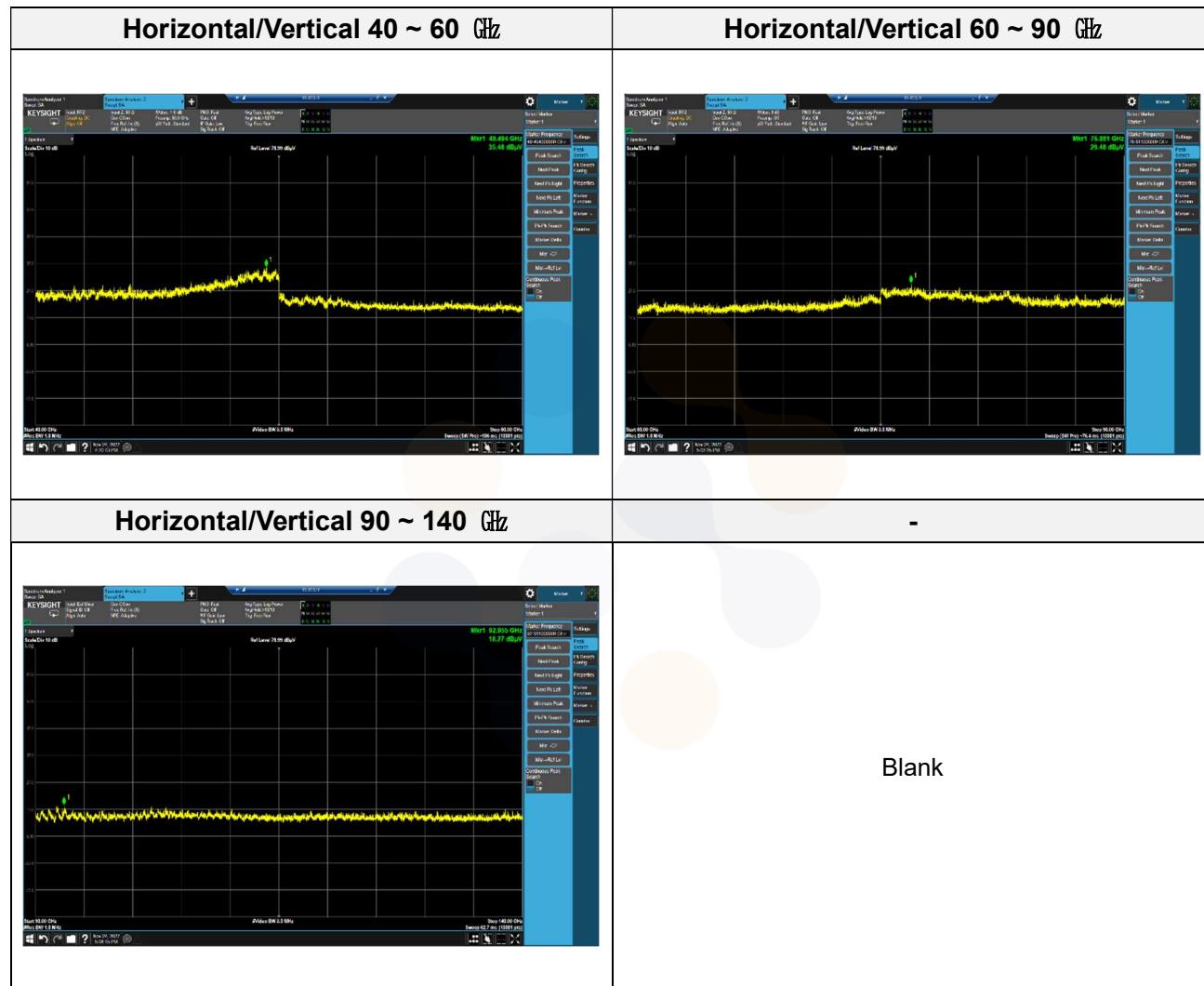


Horizontal/Vertical for 18 GHz ~ 40 GHz



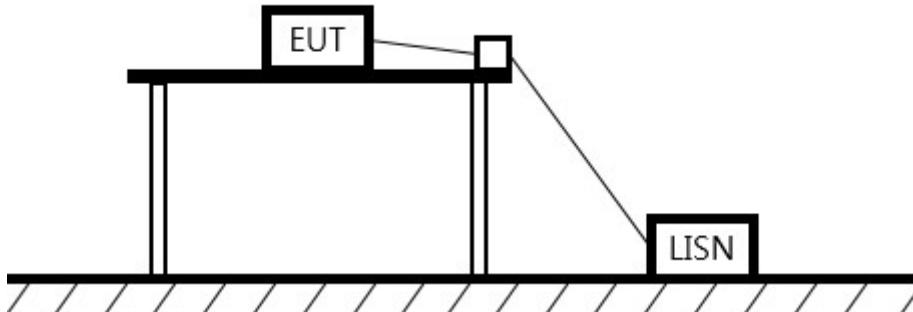
(40 000 ~ 140 000 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
No spurious emissions were detected.								



6.3. AC Conducted emission

Test setup



Limit

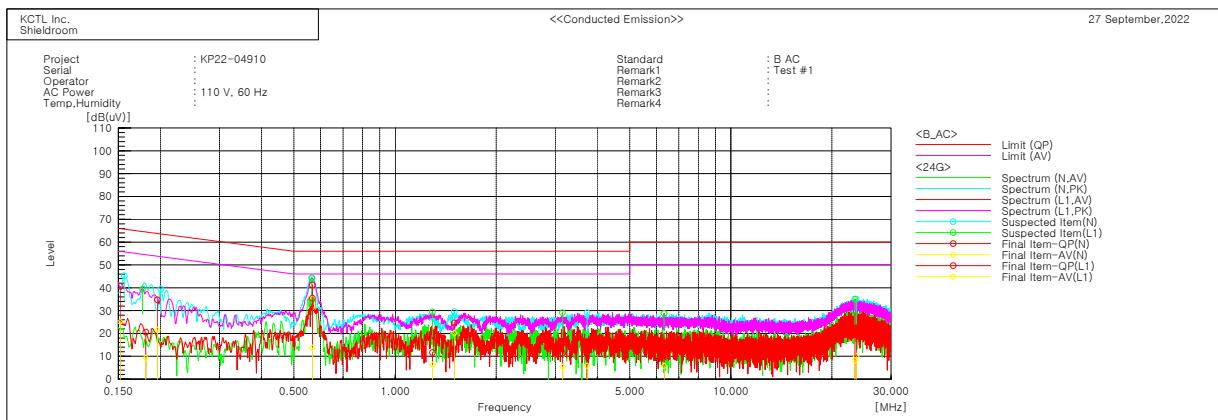
According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50Ω/50μH LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

Test results



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f.	Result QP [dB]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15189	31.0	15.4	9.7	40.7	25.1	65.9	55.9	25.2	30.8
2	0.19587	24.9	11.6	9.9	34.8	21.5	63.8	53.8	29.0	32.3
3	0.56693	31.5	25.5	9.8	41.3	35.3	56.0	46.0	14.7	10.7
4	1.50026	15.1	10.5	9.6	24.7	20.1	56.0	46.0	31.3	25.9
5	3.7314	5.2	-3.9	9.7	14.9	5.8	56.0	46.0	41.1	40.2
6	23.6286	12.2	0.1	9.9	22.1	10.0	60.0	50.0	37.9	40.0

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f.	Result QP [dB]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.18097	10.7	-0.8	10.0	20.7	9.2	64.4	54.4	43.7	45.2
2	0.56685	25.7	3.9	9.8	35.5	13.7	56.0	46.0	20.5	32.3
3	1.29239	1.9	-3.5	9.7	11.6	6.2	56.0	46.0	44.4	39.8
4	3.15516	1.8	-4.2	9.6	11.4	5.4	56.0	46.0	44.6	40.6
5	6.33272	3.1	-4.0	9.7	12.8	5.7	60.0	50.0	47.2	44.3
6	23.41995	11.5	-1.8	10.0	21.5	8.2	60.0	50.0	38.5	41.8

7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV40	100989	23.10.14*
EMI TEST RECEIVER	R&S	ESCI7	100732	24.01.19
Bi-Log Antenna	TESEQ	CBL 6112D	55545	24.04.27
LOOP Antenna	R&S	HFH2-Z2	100355	24.08.10*
Amplifier	SONOMA INSTRUMENT	310N	284608	23.08.18*
ATTENUATOR	KEYSIGHT	8491B-6dB	MY39271060	24.04.27
ISOLATION TRANSFORMER	ONETECH CO., LTD	OT-IT500VA	OTR1-16026	23.03.28
Horn antenna	ETS.lindgren	3117	155787	23.09.29*
Horn antenna	ETS.lindgren	3116	00086635	23.05.04
Attenuator	API Inmet	40AH2W-10	12	23.05.03
Amplifier	C&K Technologies, Inc.	BZRT-00504000-481055-382525	26299-27735	23.09.19*
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33-8P	2000997	23.07.12
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	CO3000	1175/45850319/P	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	CO3000	1175/45850319/P	-
EMI TEST RECEIVER	R&S	ESCI3	100001	23.08.18*
TWO-LINE V - NETWORK	R&S	ENV216	101358	23.09.29*
Vector Signal Generator	R&S	SMBV100A	257566	23.07.04
Signal Generator	R&S	SMB100A	176206	24.01.19
UXA Signal Analyzer	KEYSIGHT	N9041B	MY60100003	24.01.29
Millimeter Wave Source Module	OML, Inc.	S19MS-A	190725-1	23.10.26*
Millimeter Wave Source Module	OML, Inc.	S12MS-A	190621-1	23.10.26*
Millimeter Wave Source Module	OML, Inc.	S08MS-A	190621-1	23.10.25*
Harmonic Mixer	OML, Inc.	M08HWD	190621-1	23.10.27*
Horn Antenna	OML, Inc.	M19RH	190621-1	23.10.26*
Horn Antenna	OML, Inc.	M12RH	190621-1	23.10.26*
Horn Antenna	OML, Inc.	M08RH	190621-1	23.10.28*
Horn Antenna	OML, Inc.	M19RH	190621-2	23.10.28*
Horn Antenna	OML, Inc.	M12RH	190621-2	23.10.28*
Horn Antenna	OML, Inc.	M08RH	190621-2	23.10.28*
mmWave Single-Axis measuring jig	C&K Technologies, Inc.	N/A	N/A	N/A

* Tests related to this equipment were progressed after the calibration was completed.

End of test report