

TEST REPORT



CTK Co., Ltd.
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Report No.:
CTK-2022-02291
Page (1) / (22) Pages

1. Applicant

- Name : DEKIST Co., Ltd
- Address : #A1801, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
- Date of Receipt : 2022-07-10

2. Manufacturer

- Name : DEKIST Co., Ltd
- Address : #A1801, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

3. Use of Report : For FCC Certification

4. Test Sample / Model: Wireless Gas Transmitter / RN320

5. Date of Test : 2022-08-25 to 2022-08-29

6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.247

7. Testing Environment: Temp.: (23 ± 1) °C, Humidity: (48 ± 1) % R.H.

8. Test Results : Compliance

9. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

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Approval	Tested by	Technical Manager
	Ji-Hye Kim: (Signature)	Young-taek Lee: (Signature)

Remark. This report is not related to KOLAS accreditation and relevant regulation.

2022-08-30

CTK Co., Ltd.



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REPORT REVISION HISTORY

Date	Revision	Page No
2022-08-30	Issued (CTK-2022-02291)	all

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 CTK Co., Ltd. The Prime Leader of Global Regulatory Certification	CTK Co., Ltd. (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501	Report No.: CTK-2022-02291 Page (4) / (22) Pages	
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1. General Product Description

1.1 Applicant Information

Company	DEKIST Co., Ltd
Contact Point	#A1801, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Korea
Contact Person	Name : Hwang Inchan E-mail : hich@dekist.com Tel : +82-70-7529-4359 Fax : +82-31-8039-4400

1.2 Product Information

FCC ID	2ABC3-RN320
Product Description	Wireless Gas Transmitter
Model name	RN320
Operating Frequency	125 kHz Bandwidth : 902.3 MHz to 914.9 MHz (FHSS) 500 kHz Bandwidth : 903.0 MHz to 914.2 MHz (DTS)
Number of channels	125 kHz Bandwidth : 64 500 kHz Bandwidth : 8
Channel Spacing	125 kHz Bandwidth : 200 kHz 500 kHz Bandwidth : 1.6 MHz
Antenna Specification	Antenna type : Chip Antenna Antenna gain : 1.1 dBi
Type of Modulation	LoRa
Power Source	DC 3.6 V (C Type Battery)
Hardware Rev	RN320 v1.3
Software Rev	RN320 v1.6

1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253QPR
AC/DC Adapter	HP	HSTNN-CA40	-

2. Facility and Accreditations

2.1 Test Facility

The measurement facility is located at 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yong-in-si, Gyeonggi-do, Korea.

2.2 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	8737A-2
KOREA	NRRA	KR0025

2.3 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

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3. Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Status (Note 1)	Test Condition
15.209	Radiated Emissions	C	Radiated
<u>Note 1:</u> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable			
<u>Note 2:</u> The data in this test report are traceable to the national or international standards.			
<u>Note 3:</u> The sample was tested according to the following specification: FCC Part 15.247			
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in KDB No.558074, ANSI C63.10-2013			
etc. : The conformity assessment of except for this item was confirmed by the RF module installed in the device. Refer to module test report. (Test Report No. CN21MROF 001 issued on Oct. 18, 2021 by TUV Rheinland (Shenzhen) Co., Ltd. Module FCC ID : 2AF6B-RAK3172) Test was performed by modular transmitter.			

3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.
 During at testing, system components were manipulated within the confines of typical usage to maximize each emission. All modulation modes were tests.
 The results are only attached worst cases.

Test Frequency

- 125 kHz Bandwidth

Lowest channel	Middle channel	Highest channel
902.3 MHz	908.5 MHz	914.9 MHz

- 500 kHz Bandwidth

Lowest channel	Middle channel	Highest channel
903.0 MHz	907.8 MHz	914.2 MHz

3.3 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
 Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Radiated Emissions ($f \leq 1$ GHz)	3.88 dB (C.L.: Approx. 95 %, $k = 2$)
Radiated Emissions ($f > 1$ GHz)	4.62 dB (C.L.: Approx. 95 %, $k = 2$)

4. Technical Characteristic Test

4.1 Radiated Emission

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 558074 - Section 8.5, 8.6
ANSI C63.10-2013 - Section 11.11, 11.12

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 200 Hz(9 kHz ~150 kHz), 9 kHz(150 kHz ~ 30 MHz), 120 kHz(30 MHz ~ 1GHz)
- b) VBW $\geq$ RBW
- c) Detector = CISPR Quasi-peak
- d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 10 GHz (10th harmonic)

- a) RBW = 1 MHz
- b) VBW $\geq$ 3 x RBW
- c) Detector = Peak
- d) Sweep time = auto
- e) Trace mode = max hold

- Average (duty cycle $\geq$ 98%)

Frequency Range = 1 GHz ~ 10 GHz (10th harmonic)

- a) RBW = 1 MHz
- b) VBW $\geq$ 3 x RBW
- c) Detector = RMS
- d) Sweep time = auto
- e) Averaging type = power (i.e., RMS)
- f) Trace mode = average (at least 100 traces)

- Average (duty cycle < 98%, duty cycle variations are less than $\pm 2\%$)

Frequency Range = 1 GHz ~ 25 GHz (2.4 GHz 10th harmonic)

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Limit :

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Table 1. Restricted Frequency Bands

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

FCC Part 15 § 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 :

Table 2. General Field Strength Limits for Licence-Exempt Transmitters

Frequency(MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

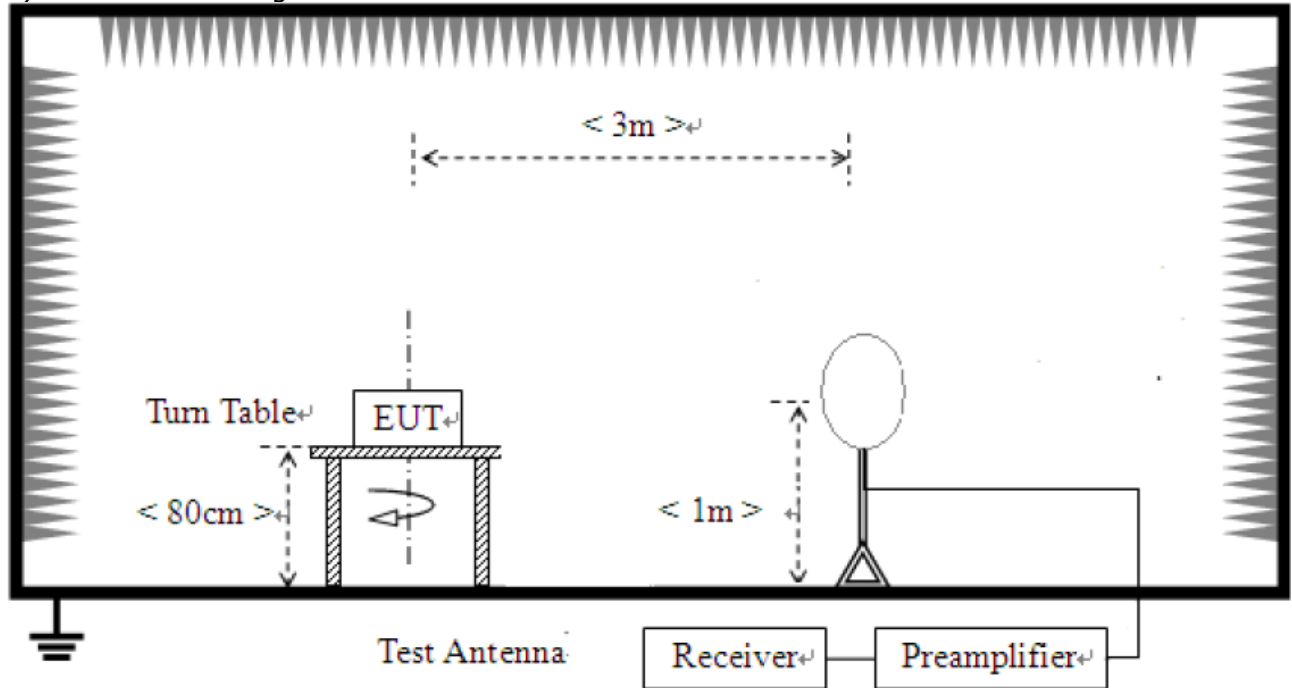
** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

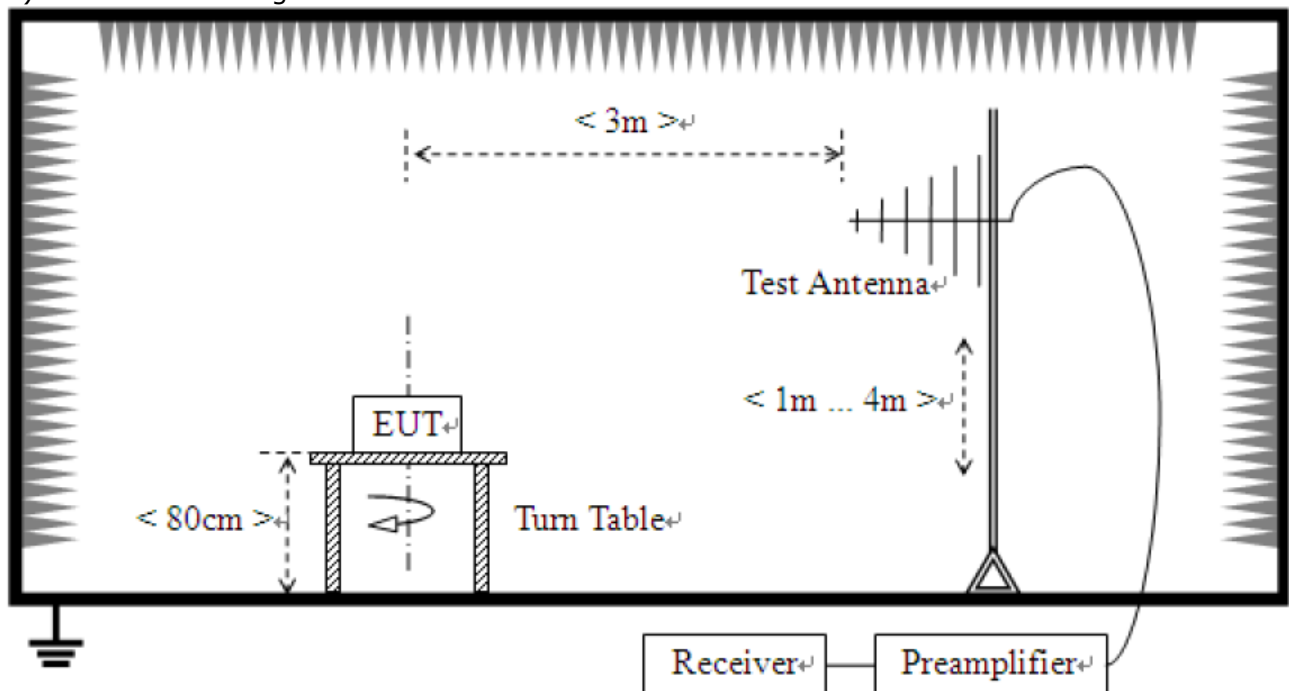
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

Test Setup:

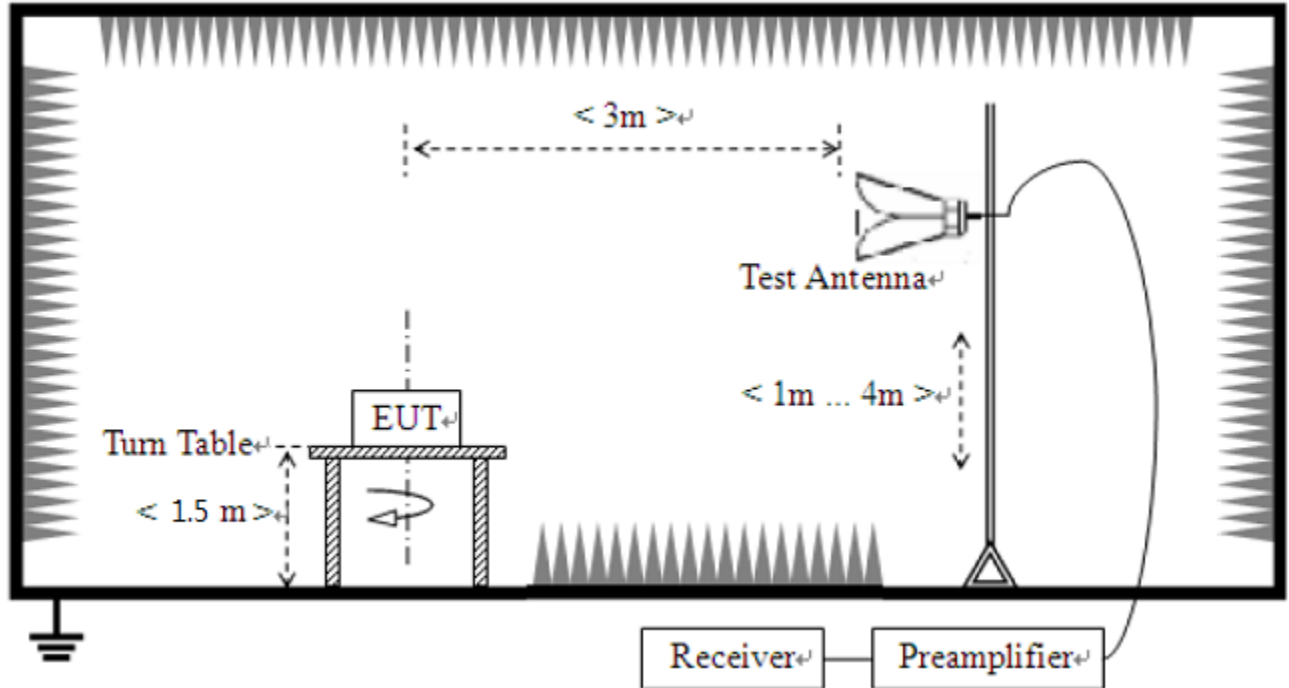
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



Test results

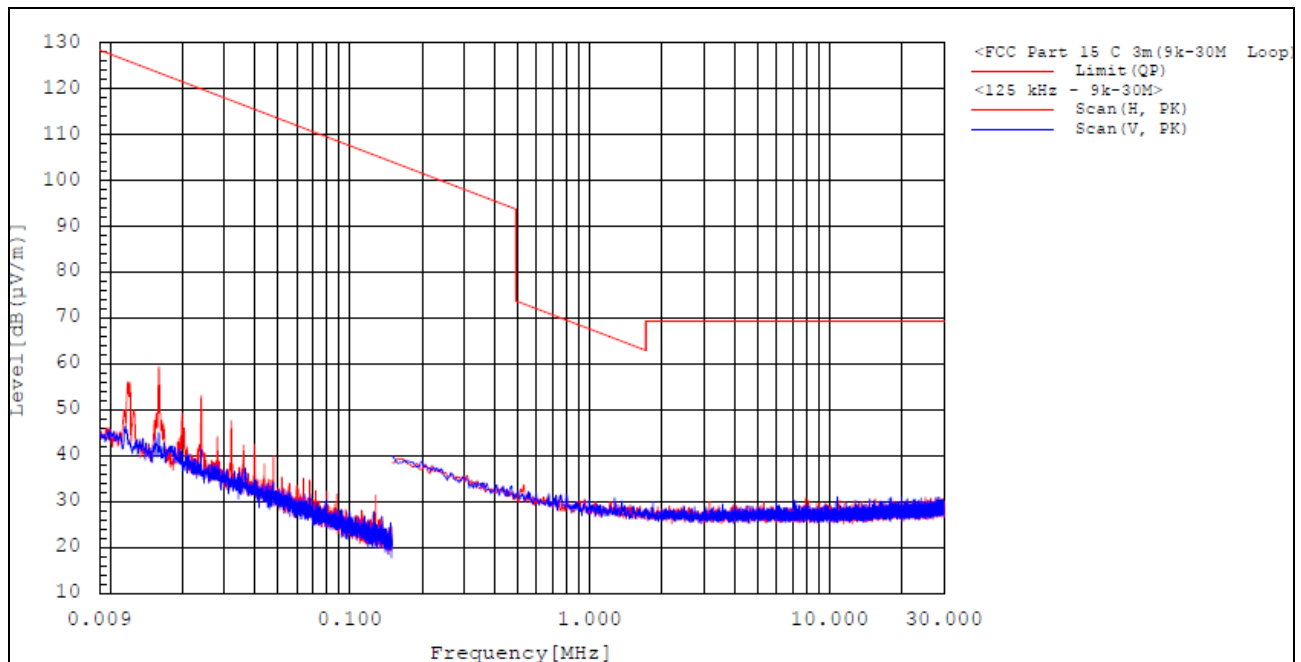
1) 9 kHz to 30 MHz

Test mode : 125 kHz Bandwidth_Worst Case

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading QP [dBuV]	dB [1/m]	Result QP [dBuV/m]	Limit QP [dBuV/m]	Margin QP [dB]
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The emissions 9 kHz to 30MHz were 20 dB lower than the limit.

Remark :

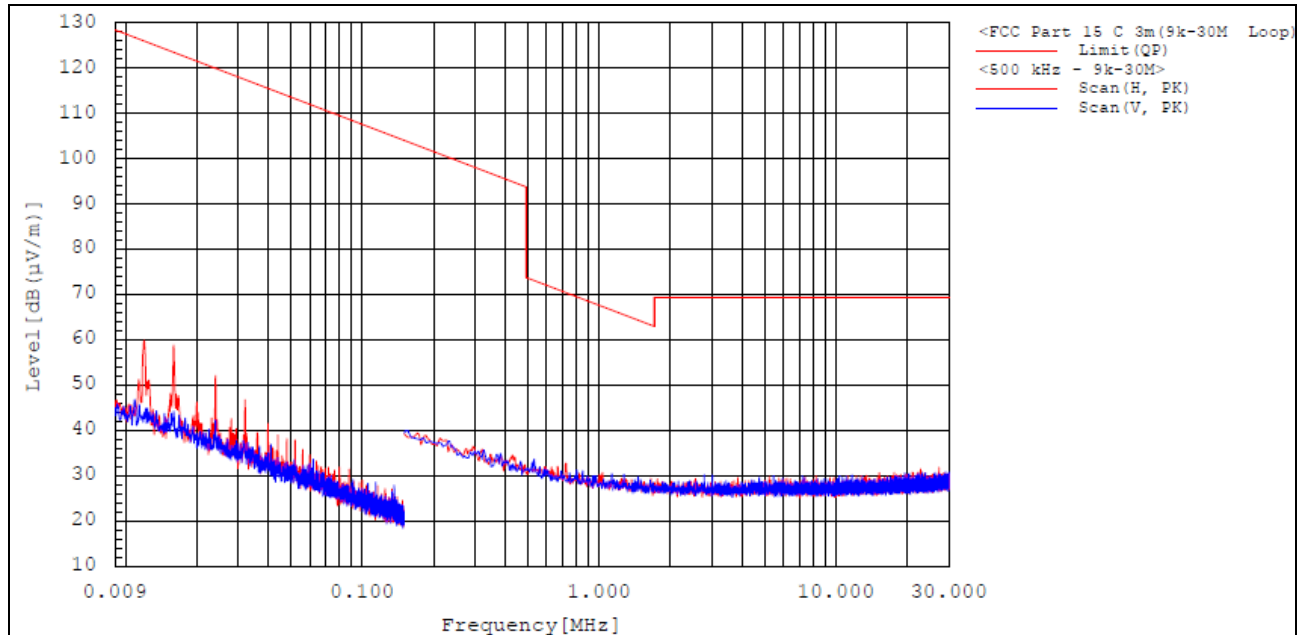
1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)

Test mode : 500 kHz Bandwidth_Worst Case

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading QP [dBuV]	dB [1/m]	Result QP [dBuV/m]	Limit QP [dBuV/m]	Margin QP [dB]
--------------------	-----	-------------------------	-------------	--------------------------	-------------------------	----------------------

The emissions 9 kHz to 30MHz were 20 dB lower than the limit.

Remark :

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)

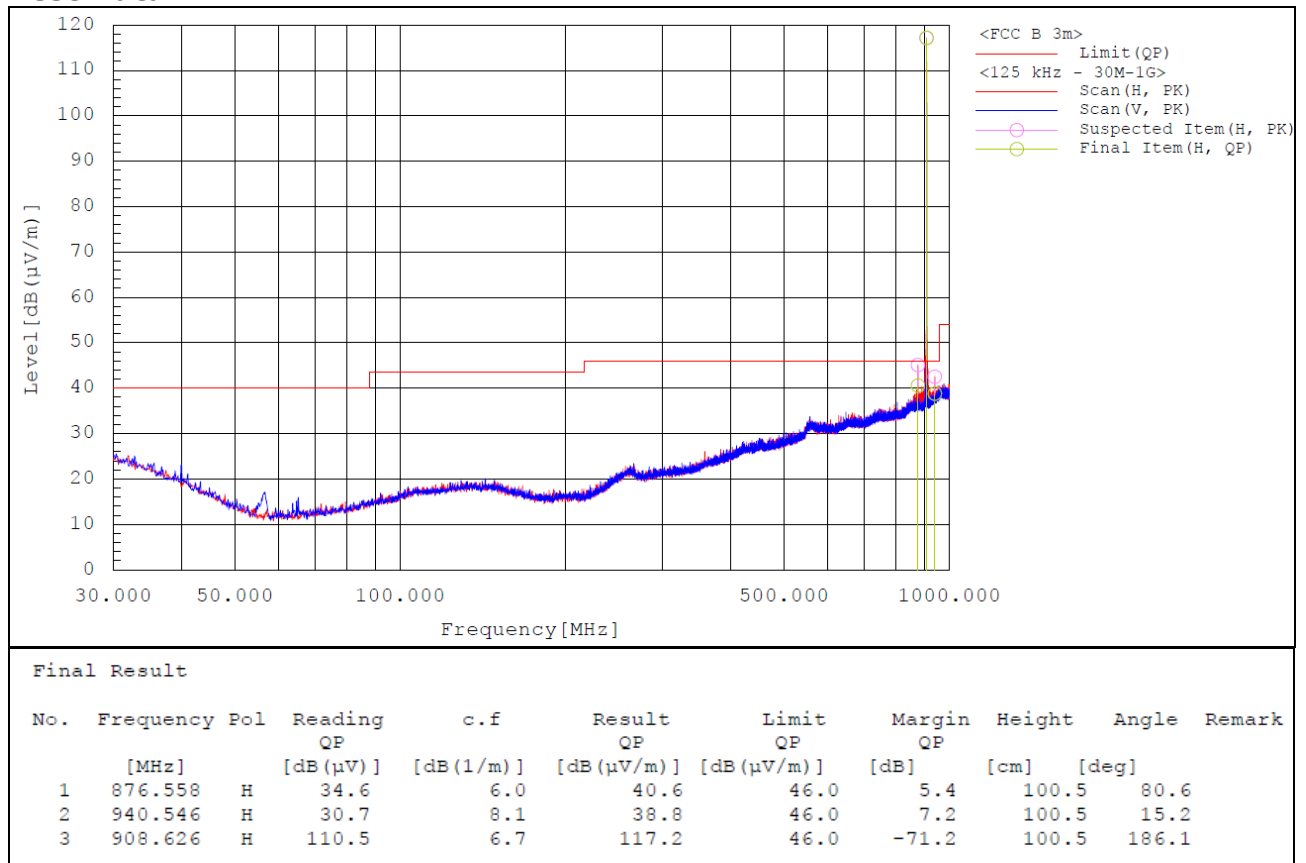
2) 30 MHz to 1 GHz

Test mode : 125 kHz Bandwidth_Worst case

The requirements are:

☒ Complies

Test Data



Remark :

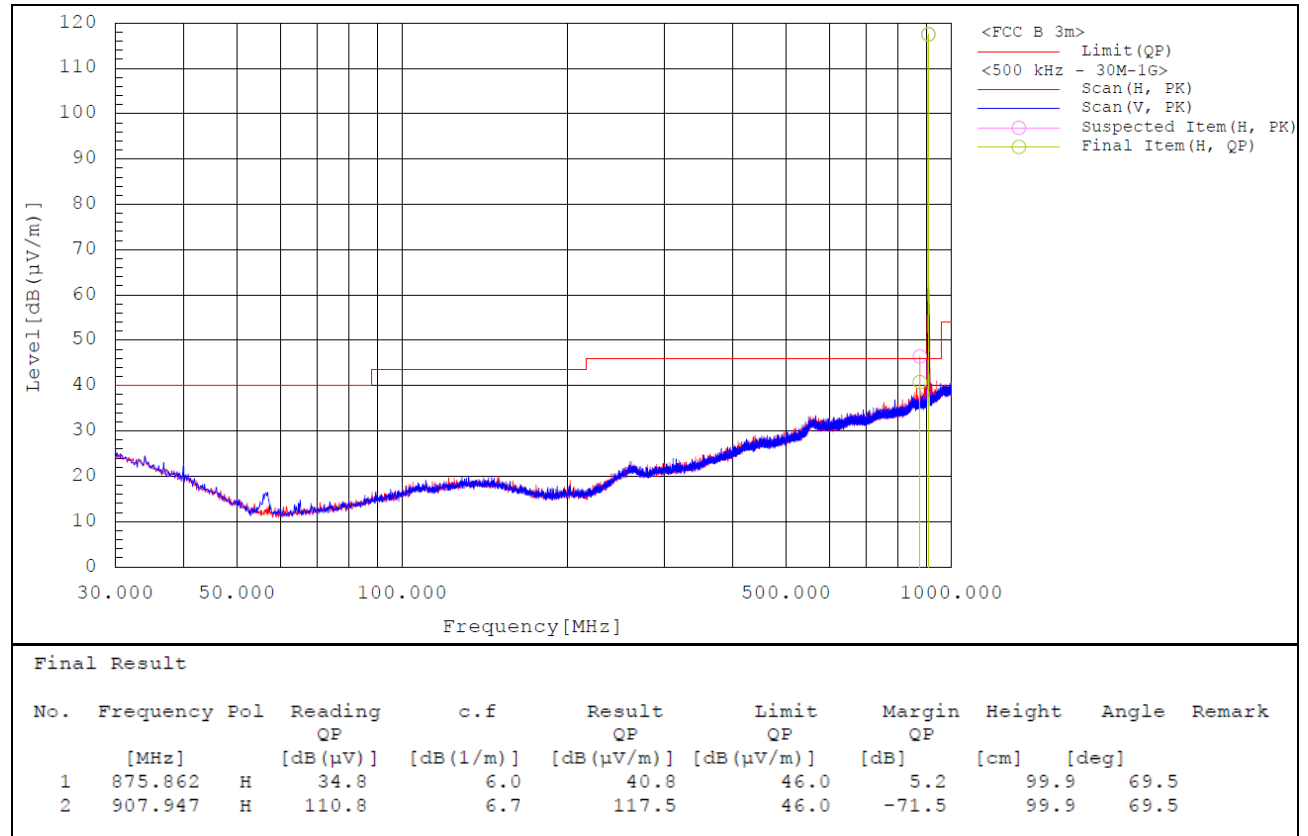
1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. No.3 is the carrier frequencies.

Test mode : 500 kHz Bandwidth_Worst case

The requirements are:

☒ Complies

Test Data



Remark :

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. No.2 is the carrier frequencies.

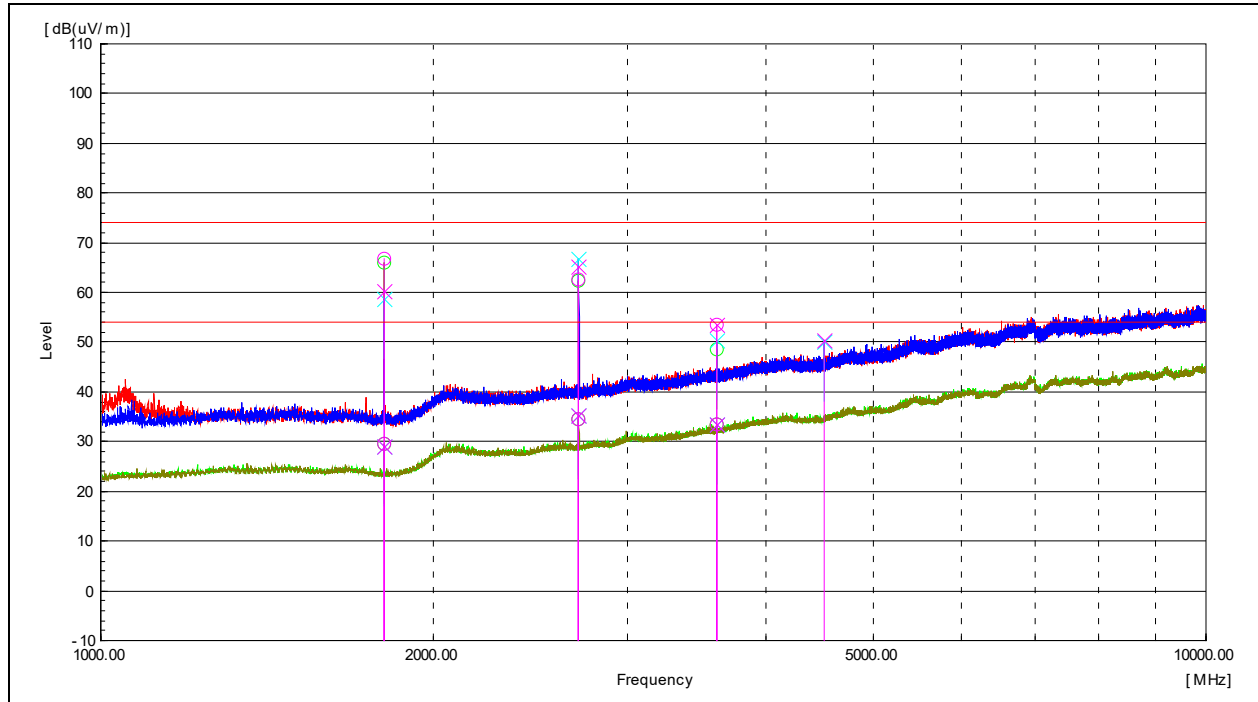
3) above 1 GHz

The requirements are:

☒ Complies

Test mode : 125 kHz Bandwidth

Test Data



Lowest channel (902.3 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 804.63	H	75.6	-----	-8.8	66.8	-----	74.0	-----	7.2	-----
1 804.63	H	-----	38.4	-8.8	-----	29.6	-----	54.0	-----	24.4
1 804.63	V	69.0	-----	-8.8	60.2	-----	74.0	-----	13.8	-----
1 804.63	V	-----	37.9	-8.8	-----	29.1	-----	54.0	-----	24.9
2 707.19	H	67.1	-----	-4.5	62.6	-----	74.0	-----	11.4	-----
2 706.83	H	-----	38.9	-4.5	-----	34.4	-----	54.0	-----	19.6
2 706.83	V	69.7	-----	-4.5	65.2	-----	74.0	-----	8.8	-----
2 706.83	V	-----	39.9	-4.5	-----	35.4	-----	54.0	-----	18.6

Middle channel (908.5 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 816.87	H	77.0	-----	-8.6	68.4	-----	74.0	-----	5.6	-----
1 816.87	H	-----	43.8	-8.6	-----	35.2	-----	54.0	-----	18.8
1 817.23	V	67.7	-----	-8.6	59.1	-----	74.0	-----	14.9	-----
1 816.51	V	-----	43.5	-8.6	-----	34.9	-----	54.0	-----	19.1
2 725.55	H	66.3	-----	-4.5	61.8	-----	74.0	-----	12.2	-----
2 725.55	H	-----	42.8	-4.5	-----	38.3	-----	54.0	-----	15.7
2 725.55	V	71.5	-----	-4.5	67.0	-----	74.0	-----	7.0	-----
2 725.91	V	-----	42.7	-4.5	-----	38.2	-----	54.0	-----	15.8

Highest channel (914.9 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 829.83	H	79.1	-----	-8.5	70.6	-----	74.0	-----	3.4	-----
1 829.83	H	-----	43.3	-8.5	-----	34.8	-----	54.0	-----	19.2
1 829.83	V	69.4	-----	-8.5	60.9	-----	74.0	-----	13.1	-----
1 830.19	V	-----	42.8	-8.5	-----	34.3	-----	54.0	-----	19.7
2 744.99	H	66.5	-----	-4.4	62.1	-----	74.0	-----	11.9	-----
2 744.99	H	-----	42.8	-4.4	-----	38.4	-----	54.0	-----	15.6
2 744.63	V	63.8	-----	-4.4	59.4	-----	74.0	-----	14.6	-----
2 744.99	V	-----	43.5	-4.4	-----	39.1	-----	54.0	-----	14.9

Remarks

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Test mode : 500 kHz Bandwidth

Lowest channel (903.0 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 806.43	H	74.5	-----	-8.7	65.8	-----	74.0	-----	8.2	-----
1 806.07	H	-----	34.4	-8.8	-----	25.6	-----	54.0	-----	28.4
1 806.43	V	68.2	-----	-8.7	59.5	-----	74.0	-----	14.5	-----
1 806.07	V	-----	34.1	-8.8	-----	25.3	-----	54.0	-----	28.7
2 708.63	H	62.8	-----	-4.5	58.3	-----	74.0	-----	15.7	-----
2 708.99	H	-----	35.6	-4.5	-----	31.1	-----	54.0	-----	22.9
2 708.63	V	67.2	-----	-4.5	62.7	-----	74.0	-----	11.3	-----
2 708.99	V	-----	34.3	-4.5	-----	29.8	-----	54.0	-----	24.2

Middle channel (907.8 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 816.15	H	76.6	-----	-8.6	68.0	-----	74.0	-----	6.0	-----
1 815.79	H	-----	34.2	-8.6	-----	25.6	-----	54.0	-----	28.4
1 815.07	V	68.5	-----	-8.7	59.8	-----	74.0	-----	14.2	-----
1 815.07	V	-----	34.3	-8.7	-----	25.6	-----	54.0	-----	28.4
2 724.11	H	64.2	-----	-4.5	59.7	-----	74.0	-----	14.3	-----
2 723.75	H	-----	34.1	-4.5	-----	29.6	-----	54.0	-----	24.4
2 724.11	V	68.6	-----	-4.5	64.1	-----	74.0	-----	9.9	-----
2 723.75	V	-----	34.5	-4.5	-----	30.0	-----	54.0	-----	24.0

Highest channel (914.2 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
1 828.39	H	78.6	-----	-8.5	70.1	-----	74.0	-----	3.9	-----
1 828.03	H	-----	34.0	-8.5	-----	25.5	-----	54.0	-----	28.5
1 828.75	V	68.4	-----	-8.5	59.9	-----	74.0	-----	14.1	-----
1 828.75	V	-----	35.9	-8.5	-----	27.4	-----	54.0	-----	26.6
2 743.19	H	66.0	-----	-4.4	61.6	-----	74.0	-----	12.4	-----
2 742.47	H	-----	35.1	-4.4	-----	30.7	-----	54.0	-----	23.3
2 743.19	V	68.6	-----	-4.4	64.2	-----	74.0	-----	9.8	-----
2 742.83	V	-----	35.1	-4.4	-----	30.7	-----	54.0	-----	23.3

Remarks

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(correction factor)
3. Correction factor = Antenna factor + Cable loss - Amp Gain

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2022-05-04	2023-05-04
2	BILOG ANTENNA	TESEQ	CBL6111D	60654	2021-09-03	2023-09-03
3	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2022-04-15	2024-04-15
4	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2022-08-10	2023-08-10
5	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2022-08-10	2023-08-10
6	Spectrum Analyzer	R&S	FSV40	101574	2022-01-12	2023-01-12
7	PRE AMPLIFIER	HP	8449B	3008A00620	2022-05-10	2023-05-10
8	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2022-04-14	2023-04-14
9	Band Reject Filter	Wainwright Instruments GmbH	WRCG902/930-894/938-50/12SS	SN1	2022-03-25	2023-03-25

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2022-04-12
2	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	L-5D2W	N/A	2022-04-12
3	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2022-04-14
4	RF Cable (1 GHz - 18 GHz Radiated)	Rosenberger	NONE	1520.9927.00	2022-04-14
5	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2022-04-14

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