TEST REPORT

KES Co., Ltd.
#3002, #3503, #3701, 40, Simin-daero365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057,
Republic of Korea
Tel : +82-31-425-6200, Fax : +82-31-341-3838

■ **J-MIC TEST REPORT**

1. Client

○ Name : LEETEK LIFE CO.,LTD.

○ Address : 47, Ojeong-ro, Bucheon-si, Gyeonggi-do, Republic of Korea

2. Sample Description

○ Product item : Diper Sensor

○ Model name : LFW2930-02

○ Manufacturer etc. : LEETEK LIFE CO.,LTD.

3. Date of test : 2025.11.19~2025.11.28

4. Location of Test : ☑ Permanent Testing Lab ☐ On Site Testing

○ Adress : #3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea

5. Test method used : The Radio Law, Annex 22-3

6. Test result : PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This laboratory is not accredited for the test results marked *.
This test report is not related to KOLAS accreditation.

Affirmation	Tested by Name : Do-Hyun, Ko	(Signature) [고도현]2025/12/16	Technical Manager Name : Young-Jin Lee	(Signature) [이영진]2025/12/16

2025. 12. 16.

KES Co., Ltd.

Accredited by KOLAS, Republic of KOREA

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
2025.12.16	KES-RF250748	Initial

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Use of uncertainty of measurement for decisions on conformity (decision rule):

■ No decision rule is specified by the standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty(“simple acceptance” decision rule, previously known as “accuracy method”).

☐ Other (to be specified, for example when required by the standard or client)

TABLE OF CONTENTS

1. General information 4
   1.1. EUT description 4
   1.2. Information about derivative model 5
   1.3. Accessory information 5
   1.4. Device modifications 5
   1.5. Worst case data rate 5
   1.6. Measurement Uncertainty 5
   1.7. Sample calculation 6
   1.8 Frequency/channel operations 6
   1.9. Applied Standards 6
2. Summary of tests 7
3. Test results 8
   3.1. Frequency tolerance 8
   3.2. Occupied Bandwidth 9
   3.3. Spread Bandwidth & Factor 13
   3.4. RF output power 17
   3.5. Transmitter spurious emissions 18
   3.6. Secondary radiated emissions 25
   Appendix A. Measurement equipment 33

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1. General information

Applicant:	LEETEK LIFE CO.,LTD.
Applicant address:	47, Ojeong-ro, Bucheon-si, Gyeonggi-do, Republic of Korea
Test site:	KES Co., Ltd.
Test site address:	☒ #3002, #3503, #3701, 40, Simin-daero365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea
	☐ 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, Korea
Standard	ARIB STD-T108
J-MIC Radio law	Article 2
Test device serial No.:	☒ Production ☐ Pre-production ☐ Engineering

1.1. EUT description

Equipment under test	Diper Sensor
Frequency range	922.4 ㎒ ~ 923.4 ㎒
Model	LFW2930-02
Modulation technique	FSK
Number of channels	922.4 ㎒ ~ 923.4 ㎒ : 6 ch
Antenna specification	PCB Antenna // Peak gain: -9.51 ㏈i
Power source	DC 3.0 V
H/W version	1.02
S/W version	1.02

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1.2. Information about derivative model

N/A

1.3. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
-	-	-	-	-

1.4. Device modifications

N/A

1.5. Worst case data rate

N/A

1.6. Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conducted Bandwidth test	385 420 Hz
Uncertainty for Conducted Output power test	1.06 dB
Note. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2.	

1.7. Sample calculation

Where relevant, the following sample calculation is provided
For all conducted test items :

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Offset(㏈) = RF cable loss(㏈) + attenuator factor(㏈).
= 0.98 + 10 = 10.98 (㏈)

For Radiation test :
Field strength level (㏈㎶/m) = Measured level (㏈㎶) + Antenna factor (㏈) + Cable loss (㏈) – Amplifier gain (㏈)

1.8 Frequency/channel operations

Ch.	Frequency (㎒)
33	922.4
:	:
36	923.0
:	:
38	923.4

Note.
This test report is prepared according to the requirements of ISO/IEC 17025.

1.9. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

• Standards:
Certification Ordinance Article 2 Clause 1 Item19
• Test Methods:
Ministry of Internal Affairs and Communications Notification Article 88 Appendix 43Certification

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2. Summary of tests

Parameter	Test results
Frequency Tolerance	Pass
Occupied Bandwidth	Pass
RF Output Power	Pass
Adjacent Channel Leakage power	Pass
Transmitter Spurious Emission	Pass
Receiver Spurious Emission	Pass
Transmission time	Pass

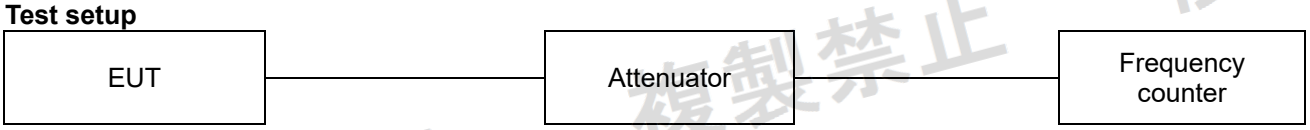
Note:

1. By the request of the applicant, test was performed with condition below:

Mode	Frequency (㎒)	Power Setting value
SRD	922.4 ㎒ ~ 923.4 ㎒	Default

3. Test results
3.1. Frequency tolerance

Test setup



Test procedure

(1) In case of unmodulated wave (serial or continuous burst), measure the frequency with frequency counter directly.
(2) In case of burst wave, measure sufficient time and average with measured results.
(3) In case of others, measure characteristic frequency with spectrum analyzer.

Limit

Permission deviation ±20 x 10^{-6}

Test results

Test voltage		Test mode	Frequency (㎒)	Measure frequency (㎒)	Frequency deviation (㎐)	Deviation (ppm)
(%)	(V)					
110	DC 3.3	SRD	922.4	922.399 412	-588	-0.64
			923.0	922.999 411	-589	-0.64
			923.4	923.399 409	-591	-0.64
100	DC 3.0	SRD	922.4	922.399 411	-589	-0.64
			923.0	922.999 411	-589	-0.64
			923.4	923.399 409	-591	-0.64
90	DC 2.7	SRD	922.4	922.399 411	-589	-0.64
			923.0	922.999 411	-589	-0.64
			923.4	923.399 409	-591	-0.64

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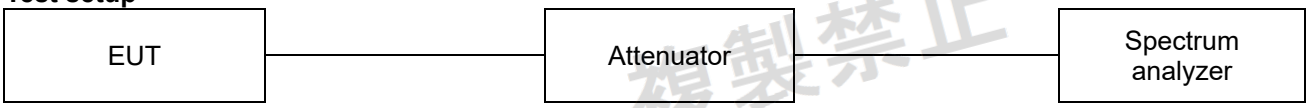
3.2. Occupied Bandwidth

Test setup



Test procedure

Spectrum analyzer is set as follows.
Center frequency : Test frequency
Sweep frequency range : 2 to 3.5 times of tolerances
Resolution bandwidth : Tolerance 3% of the facilities provided in the rules
Video bandwidth : Similar resolution bandwidth
Y axis scale : 10 ㏈/Div
Input level : Well above the noise level of Spectrum analyzer
Sweep time : The minimum time that measurement accuracy is guaranteed (In case of burst wave, one burst includes per sample)
Sweep mode : Continuous Sweep
Detection mode : Positive Peak (Note)
Display mode : Max Hold (Note)

Limit

Equal or less than 200 ㎑

Test results

Test voltage		Test mode	Occupied Bandwidth (㎑)		
(%)	(V)		922.4 ㎒	923.0 ㎒	923.4 ㎒
110	DC 3.3	SRD	125.67	126.15	126.15
100	DC 3.0	SRD	125.64	125.44	125.84
90	DC 2.7	SRD	125.60	125.47	123.92

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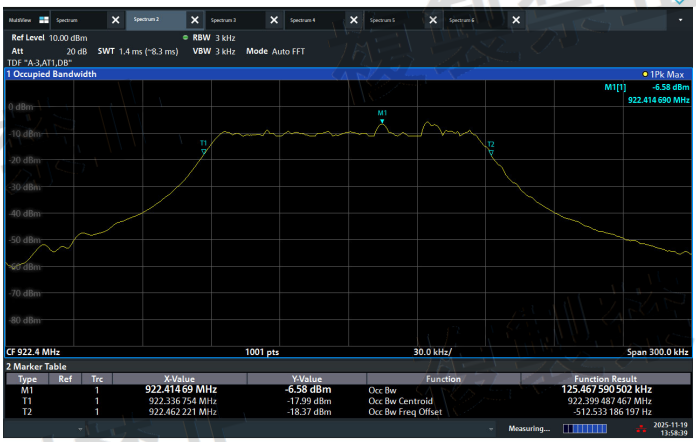
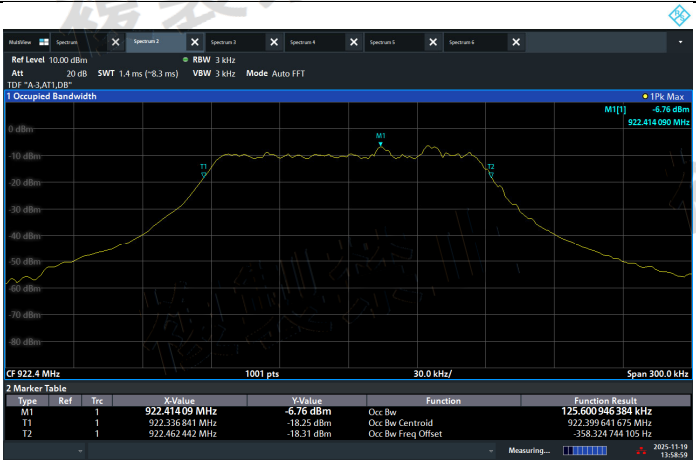
Test plots

110% (DC 3.3 V)
922.4 ㎒

100% (DC 3.0 V)
922.4 ㎒
90% (DC 2.7 V)
922.4 ㎒


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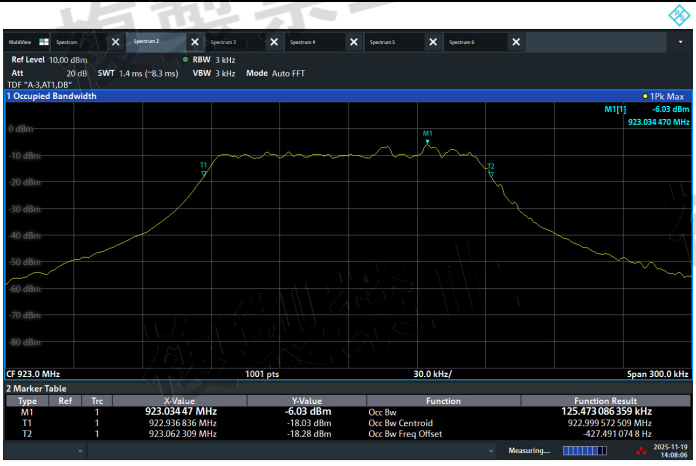
110% (DC 3.3 V)
923.0 ㎒

100% (DC 3.0 V)
923.0 ㎒

90% (DC 2.7 V)
923.0 ㎒


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110% (DC 3.3 V)
923.4 ㎒

100% (DC 3.0 V)
923.4 ㎒

90% (DC 2.7 V)
923.4 ㎒

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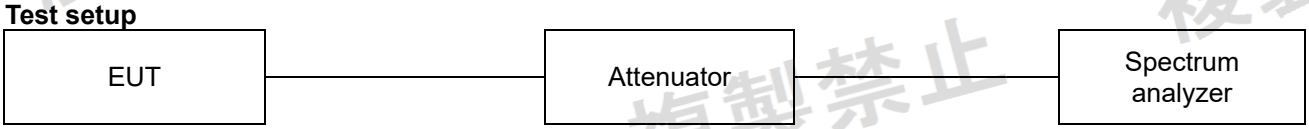
3.3. Adjacent Channel Leakage power

Test setup



Test procedure

Setting of spectrum analyzer to measure spurious emission is as follows.
Sweep frequency range : Test frequency
Resolution bandwidth : 1 ㎑
Video bandwidth : 3 ㎑
Y axis scale : 10 ㏈/Div
Number of data points : Over 400 points

Limit
Equal or less than 15dBm

Test voltage (V)	Frequency (㎒)	200kHz detuining (dBm)	-200kHz detuining (dBm)
DC 3.3 V	922.4 ㎒	-51.94	-52.23
	923.0 ㎒	-49.76	-49.76
	923.4 ㎒	-51.64	-51.10
DC 3.0 V	922.4 ㎒	-51.69	-51.96
	923.0 ㎒	-49.13	-49.05
	923.4 ㎒	-51.84	-51.23
DC 2.7 V	922.4 ㎒	-52.14	-52.41
	923.0 ㎒	-50.71	-50.62
	923.4 ㎒	-51.93	-51.55

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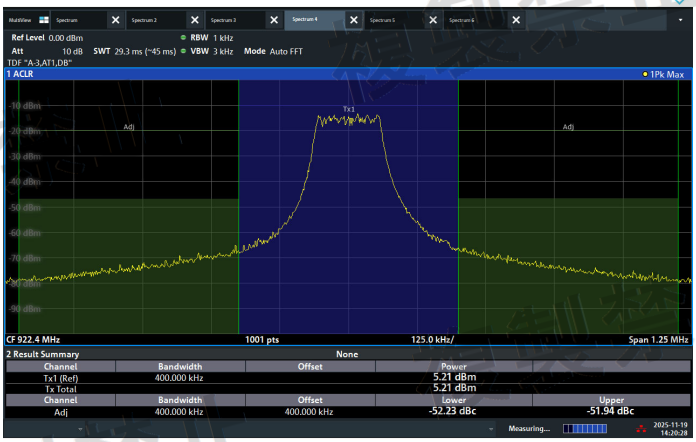
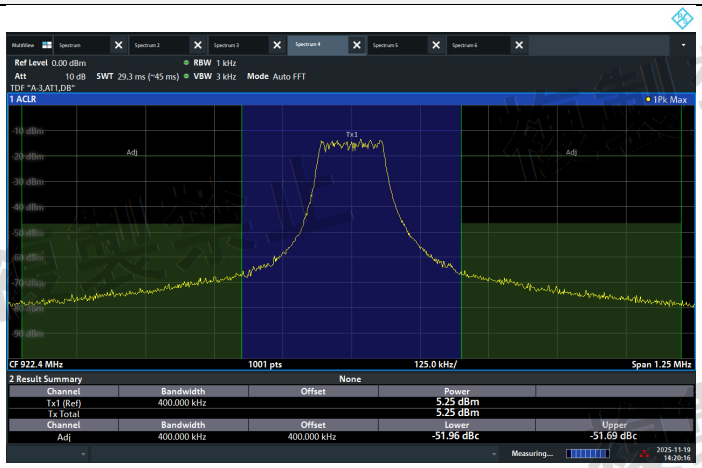
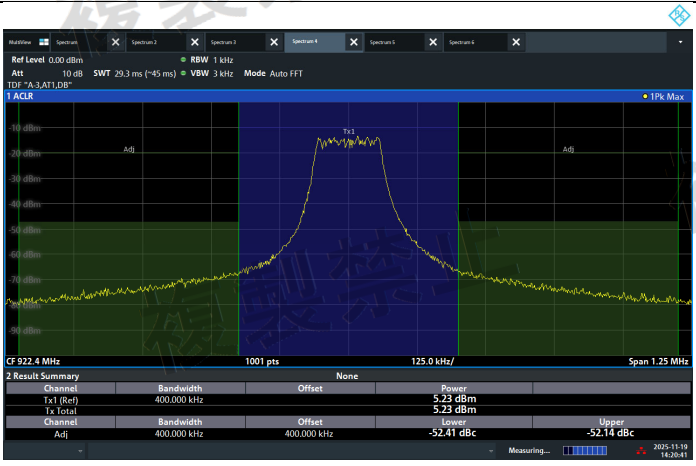
Test plots

110% (DC 3.3 V)
922.4 ㎒

100% (DC 3.0 V)
922.4 ㎒

90% (DC 2.7 V)
922.4 ㎒


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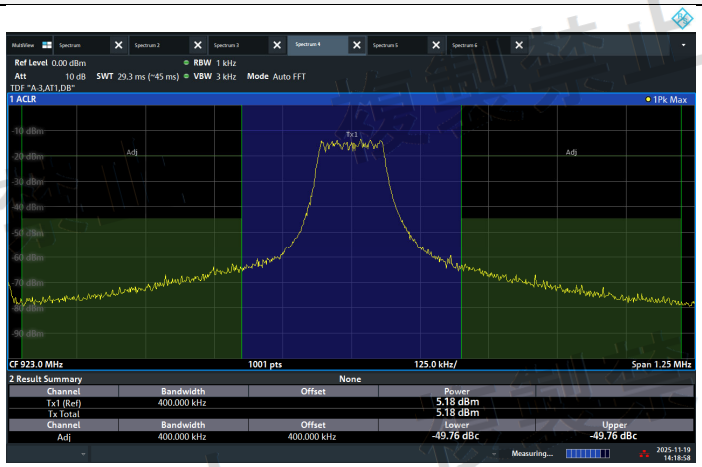
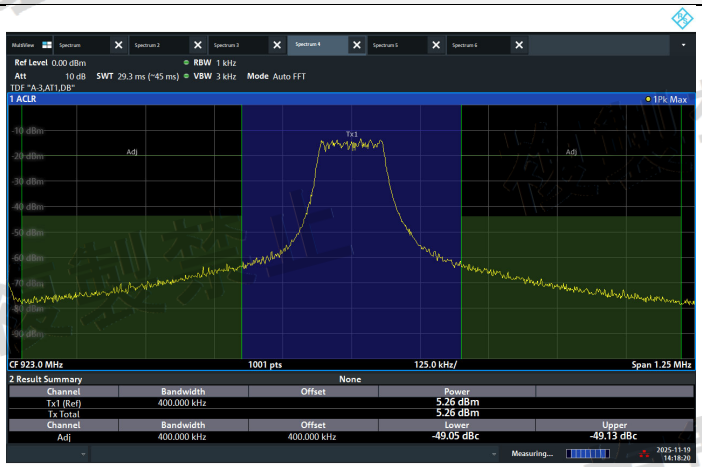
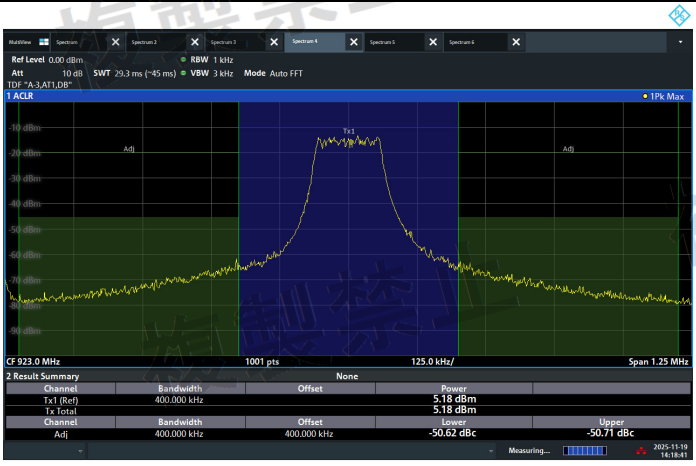
110% (DC 3.3 V)
923.0 ㎒

100% (DC 3.0 V)
923.0 ㎒

90% (DC 2.7 V)
923.0 ㎒


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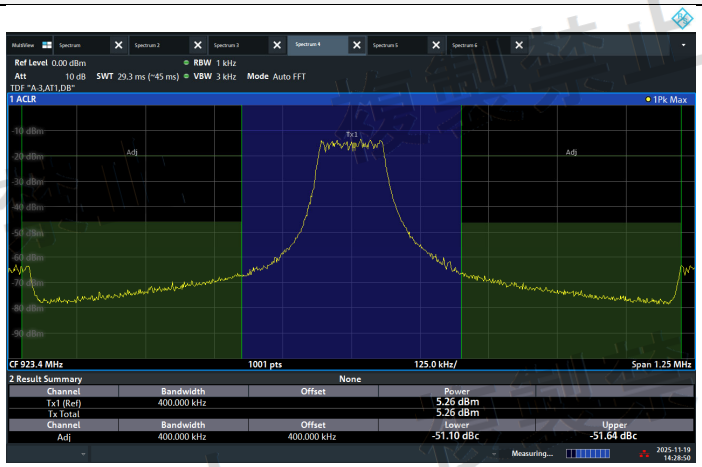
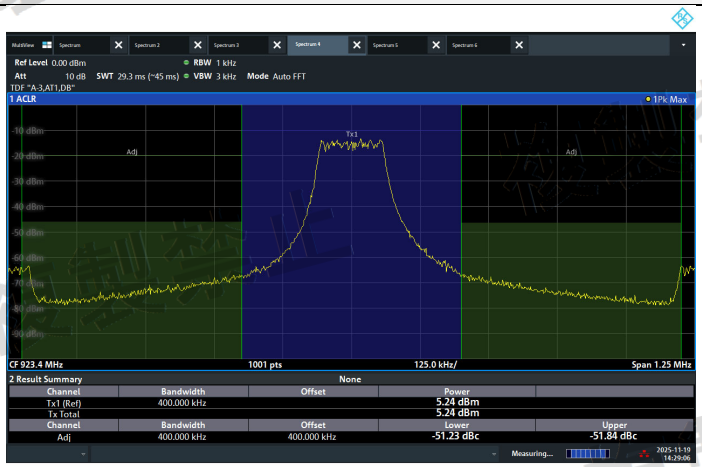
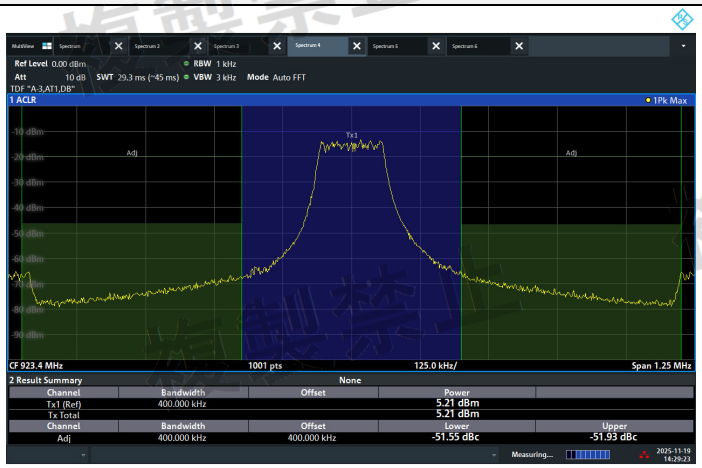
110% (DC 3.3 V)
923.4 ㎒


100% (DC 3.0 V)
923.4 ㎒


90% (DC 2.7 V)
923.4 ㎒


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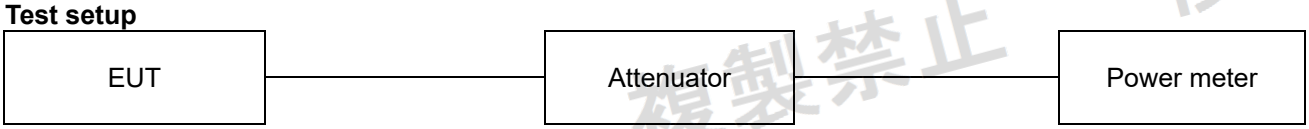
3.4. RF output power

Test setup



Test procedure

1) The EUT shall be configured to operate at the maximum stated transmitter output power level
2) A power meter is connected on the antenna port of the EUT

Limit

Test mode	Rate power (㎽)	Upper(㎽) / +20%	Limit (㎽)
SRD	1	1.2	1

Test results

Test voltage		Test mode	Frequency (㎒)	Output power (dBm/㎒)	Output power (㎽)	E.I.R.P (dBm/㎒)	Deviation (%)
(%)	(V)						
110	DC 3.3 V	SRD	922.4 ㎒	-3.98	0.40	-13.49	-60.00
			923.0 ㎒	-4.09	0.39	-13.60	-61.00
			923.4 ㎒	-4.09	0.39	-13.60	-61.00
100	DC 3.0 V	SRD	922.4 ㎒	-4.20	0.38	-13.71	-62.00
			923.0 ㎒	-4.20	0.38	-13.71	-62.00
			923.4 ㎒	-4.20	0.38	-13.71	-62.00
90	DC 2.7 V	SRD	922.4 ㎒	-3.87	0.41	-13.38	-59.00
			923.0 ㎒	-4.20	0.38	-13.71	-62.00
			923.4 ㎒	-4.20	0.38	-13.71	-62.00

Note.
1. Output power is the result which the Burst Ratio is calculated.
2. Antenna gain : -9.51 dBi

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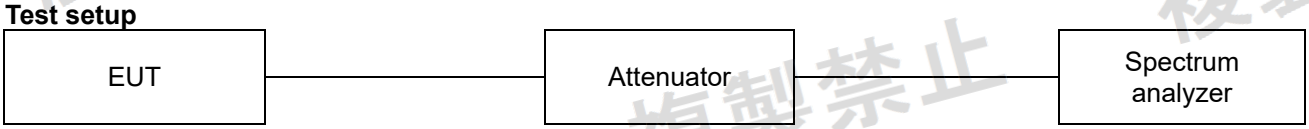
3.5. Transmitter spurious emissions

Test setup



Test procedure

Setting of spectrum analyzer to measure spurious emission is as follows.
Resolution bandwidth : 100 ㎑, 1 ㎒
Video bandwidth : Similar resolution bandwidth
Sweep time : The minimum time guaranteed measurement accuracy
Y axis scale : 10 ㏈/Div
Sweep mode : Single sweep
Detection mode : Positive Peak
Display mode : Maxhold

Limit

Frequency Band	Spurious Emission Strength (average power)	Reference Bandwidth
f <= 710 MHz	-36 dBm	100 kHz
710 MHz < f <= 900 MHz	-55 dBm	1 MHz
900 MHz < f <= 915 MHz	-55 dBm	100 kHz
915 MHz < f <= 930 MHz (Except for |f-fc| <= (200 + 100*n) kHz if bandwidth of unit radio channel is 200 kHz, except for |f-fc| <= (100 + 50*n) kHz if bandwidth of unit radio channel is 100 kHz. Except for |f-fc| <= (100 + 100*n) kHz if frequency band is 915.9 MHz <= f <= 916.9 MHz and 920.5 MHz <= 922.3 MHz. Where *n* is a number of unit radio channels constituting the radio channel and is an integer from 1 to 5)	-36 dBm	100 kHz
930 MHz < f <= 1000 MHz	-55 dBm	100 kHz
1000 MHz < f <= 1215 MHz	-45 dBm	1 MHz
1215 MHz < f	-30 dBm	1 MHz

Note.

1. "n" is the number of channels to be used simultaneously as a single radio channel.
2. Center frequency "(200 +100×n) kHz" are excluded.

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Test results

Test item: 30 to 710㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	536.40	-45.23
	923.0 ㎒	536.40	-45.30
	923.4 ㎒	536.40	-45.23
DC 3.0 V	922.4 ㎒	536.40	-45.31
	923.0 ㎒	536.40	-45.13
	923.4 ㎒	536.40	-45.29
DC 2.7 V	922.4 ㎒	536.40	-45.35
	923.0 ㎒	536.40	-45.10
	923.4 ㎒	536.40	-45.25

Test item: 710 to 900㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	760.60	-59.65
	923.0 ㎒	827.51	-59.88
	923.4 ㎒	761.60	-59.87
DC 3.0 V	922.4 ㎒	891.00	-60.20
	923.0 ㎒	890.57	-59.14
	923.4 ㎒	891.00	-59.43
DC 2.7 V	922.4 ㎒	762.45	-59.48
	923.0 ㎒	891.19	-58.67
	923.4 ㎒	891.38	-60.23

Test item: 900 to 915㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	914.53	-70.51
	923.0 ㎒	907.99	-71.10
	923.4 ㎒	912.34	-70.86
DC 3.0 V	922.4 ㎒	902.37	-71.14
	923.0 ㎒	908.01	-69.63
	923.4 ㎒	908.32	-71.26
DC 2.7 V	922.4 ㎒	913.97	-70.88
	923.0 ㎒	907.95	-70.16
	923.4 ㎒	913.40	-71.61

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Test item: 915 to 930㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	922.10	-50.53
		923.12	-52.64
	923.0 ㎒	922.69	-48.45
		923.69	-50.80
	923.4 ㎒	923.09	-49.37
		924.16	-52.16
DC 3.0 V	922.4 ㎒	922.09	-50.89
		923.08	-54.29
	923.0 ㎒	922.68	-47.07
		923.30	-48.60
	923.4 ㎒	922.81	-50.79
		924.07	-51.84
DC 2.7 V	922.4 ㎒	922.09	-49.68
		922.70	-53.98
	923.0 ㎒	922.69	-46.41
		923.31	-47.92
	923.4 ㎒	923.09	-46.53
		923.70	-48.65

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Test item: 930 to 1 000㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	997.66	-67.32
	923.0 ㎒	998.22	-67.20
	923.4 ㎒	955.42	-67.31
DC 3.0 V	922.4 ㎒	954.37	-68.42
	923.0 ㎒	998.22	-67.28
	923.4 ㎒	955.49	-67.71
DC 2.7 V	922.4 ㎒	954.44	-67.61
	923.0 ㎒	998.29	-66.77
	923.4 ㎒	955.49	-67.68

Test item: 1 000 to 1 215㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	1 007.84	-61.42
	923.0 ㎒	1 018.79	-61.99
	923.4 ㎒	1 003.54	-63.14
DC 3.0 V	922.4 ㎒	1 002.68	-62.92
	923.0 ㎒	1 018.79	-61.35
	923.4 ㎒	1 019.44	-62.91
DC 2.7 V	922.4 ㎒	1 017.93	-62.86
	923.0 ㎒	1 018.58	-61.32
	923.4 ㎒	1 019.01	-62.72

Test item: 1 215 to 5 000㎒

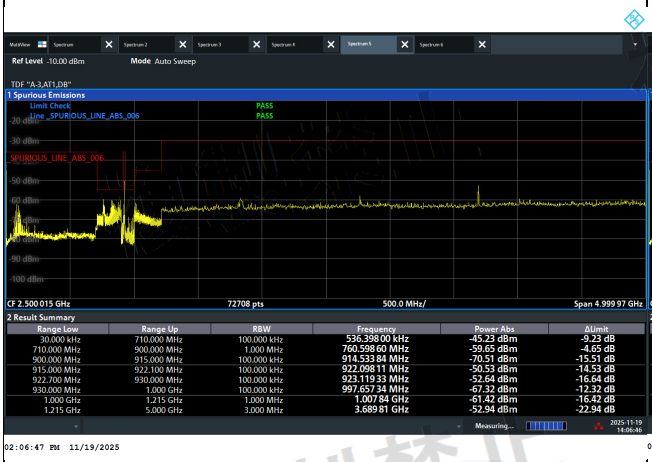
Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	3 689.81	-52.94
	923.0 ㎒	3 693.59	-52.62
	923.4 ㎒	3 693.59	-52.37
DC 3.0 V	922.4 ㎒	3 689.81	-52.63
	923.0 ㎒	2 430.66	-49.31
	923.4 ㎒	3 693.59	-52.29
DC 2.7 V	922.4 ㎒	1 746.26	-44.56
	923.0 ㎒	3 689.81	-52.38
	923.4 ㎒	3 534.78	-50.41

The authenticity of the test report, contact kes@kes.co.kr

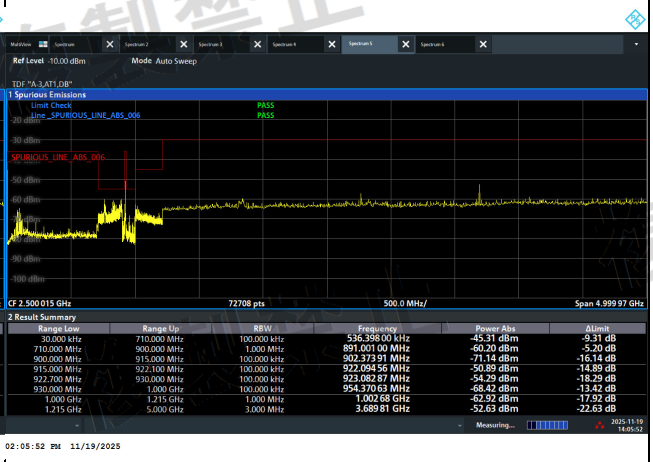
Test plots

Frequency : 922.4 MHz

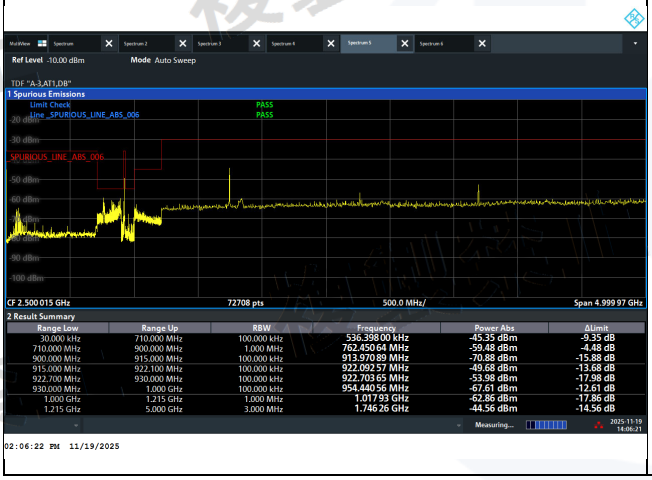
DC 3.3 V



DC 3.0 V



DC 2.7 V



N/A

N/A

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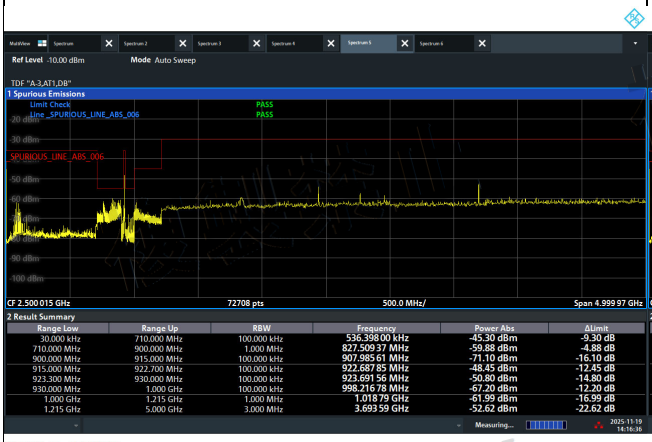
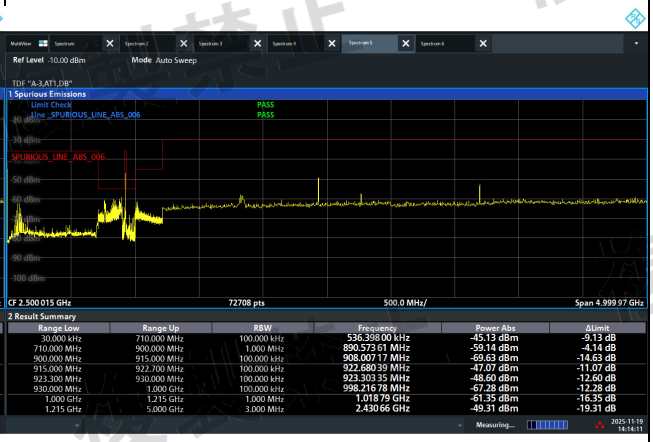
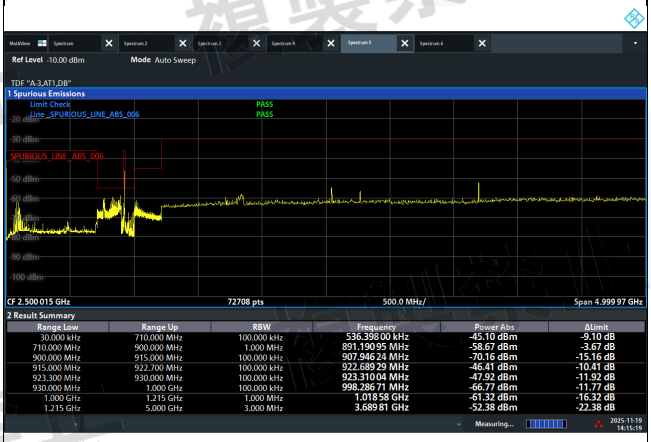
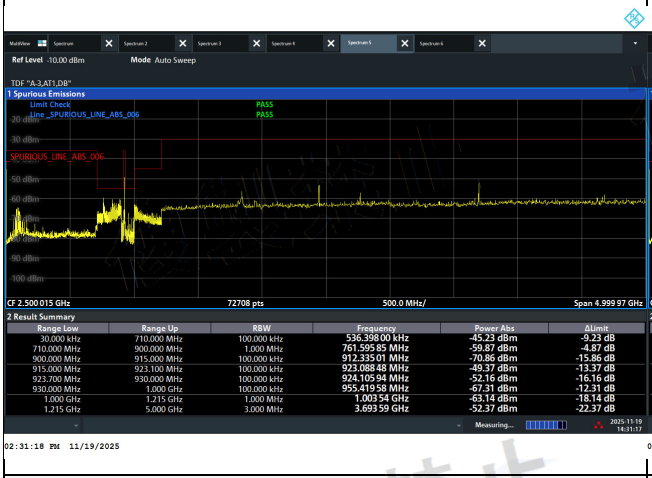
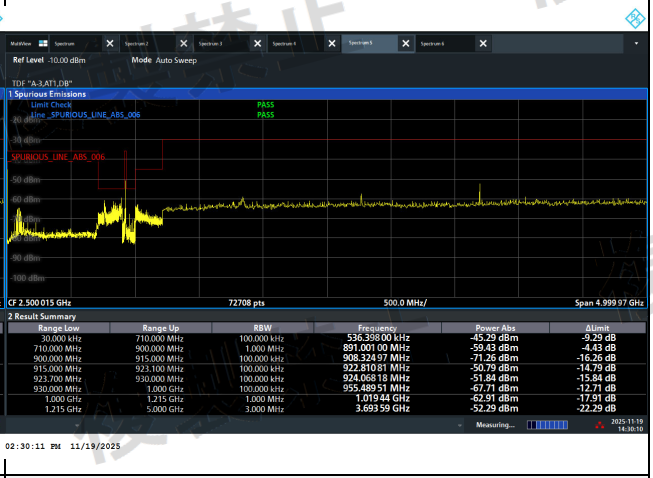
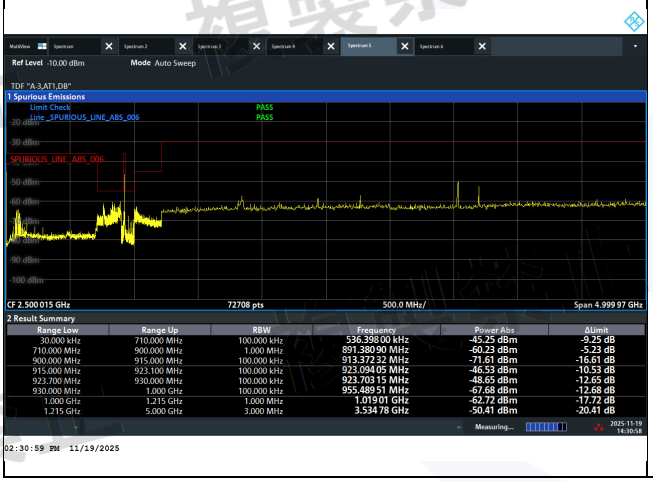
Frequency : 923.0 MHz	
DC 3.3 V	**DC 3.0 V**
	
DC 2.7 V	**N/A**
	N/A

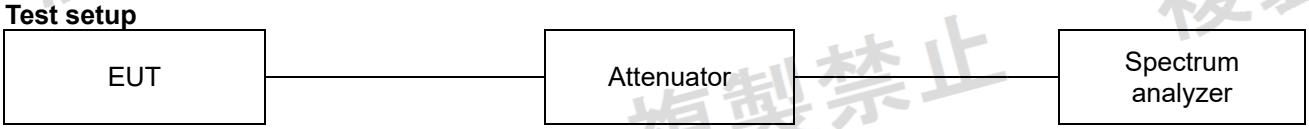
The authenticity of the test report, contact kes@kes.co.kr

Frequency : 923.4 ㎒	
DC 3.3 V	**DC 3.0 V**
	
DC 2.7 V	**N/A**
	N/A

The authenticity of the test report, contact kes@kes.co.kr

3.6. Receiver spurious emissions

Test setup



Test procedure

Setting of spectrum analyzer to measure spurious emission is as follows.
Resolution bandwidth : 100 ㎑, 1 ㎒
Video bandwidth : Similar resolution bandwidth
Sweep time : The minimum time guaranteed measurement accuracy
Y axis scale : 10 ㏈/Div
Sweep mode : Single sweep
Detection mode : Positive Peak
Display mode : Maxhold

Limit

Frequency Band	Limit on Secondary RadiatedEmissions, and so Forth (antenna input)	Reference Bandwidth
f <= 710 MHz	-54 dBm	100 kHz
710 MHz < f <= 900 MHz	-55 dBm	1 MHz
900 MHz < f <= 915 MHz	-55 dBm	100 kHz
915 MHz < f <= 930 MHz	-54 dBm	100 kHz
930 MHz < f <= 1000 MHz	-55 dBm	100 kHz
1000 MHz < f	-47 dBm	1 MHz

The authenticity of the test report, contact kes@kes.co.kr

Test results

Test item: Less than ~ 710 ㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	104.21	-72.09
	923.0 ㎒	104.21	-72.68
	923.4 ㎒	104.21	-73.19
DC 3.0 V	922.4 ㎒	104.21	-73.01
	923.0 ㎒	104.21	-71.86
	923.4 ㎒	104.21	-73.50
DC 2.7 V	922.4 ㎒	92.67	-70.95
	923.0 ㎒	95.48	-73.75
	923.4 ㎒	92.57	-70.95

Test item: 710 ㎒ ~ 900 ㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	834.63	-63.71
	923.0 ㎒	877.70	-62.42
	923.4 ㎒	834.11	-63.78
DC 3.0 V	922.4 ㎒	890.48	-62.47
	923.0 ㎒	890.48	-63.90
	923.4 ㎒	834.40	-63.77
DC 2.7 V	922.4 ㎒	891.43	-62.99
	923.0 ㎒	834.16	-63.83
	923.4 ㎒	834.21	-62.29

Test item: 900 ㎒ ~ 915 ㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	903.44	-77.06
	923.0 ㎒	900.86	-76.66
	923.4 ㎒	913.56	-77.05
DC 3.0 V	922.4 ㎒	901.18	-76.19
	923.0 ㎒	901.05	-77.30
	923.4 ㎒	909.57	-77.33
DC 2.7 V	922.4 ㎒	904.18	-77.45
	923.0 ㎒	912.42	-76.42
	923.4 ㎒	914.97	-76.41

The authenticity of the test report, contact kes@kes.co.kr

Test item: 915 ㎒ ~ 930 ㎒

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	916.30	-76.95
	923.0 ㎒	919.59	-75.93
	923.4 ㎒	923.54	-75.60
DC 3.0 V	922.4 ㎒	921.21	-76.89
	923.0 ㎒	922.32	-76.80
	923.4 ㎒	925.66	-77.02
DC 2.7 V	922.4 ㎒	918.54	-76.31
	923.0 ㎒	915.56	-76.81
	923.4 ㎒	919.83	-76.87

Test item: 930 ㎒ ~ 1 ㎓

Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	955.63	-78.37
	923.0 ㎒	953.95	-77.68
	923.4 ㎒	950.80	-77.81
DC 3.0 V	922.4 ㎒	955.28	-76.44
	923.0 ㎒	955.14	-77.55
	923.4 ㎒	955.63	-76.93
DC 2.7 V	922.4 ㎒	955.77	-78.09
	923.0 ㎒	954.09	-76.81
	923.4 ㎒	953.11	-77.80

Test item: 1 ㎓ ~ less than 5 ㎓

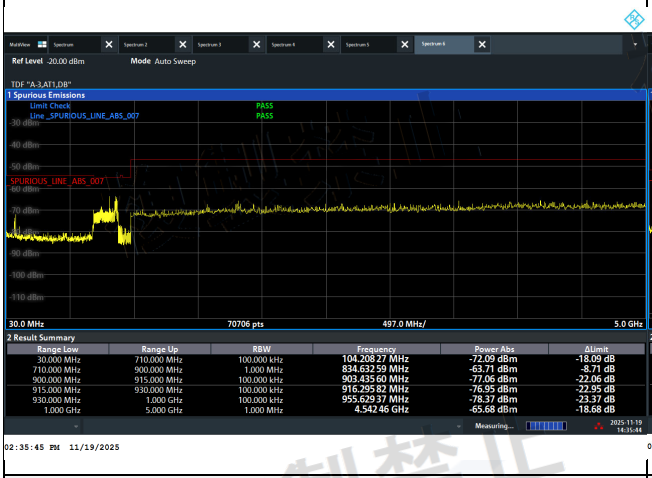
Test voltage (V)	Test Frequency (㎒)	Measure frequency (㎒)	Level (dBm)
DC 3.3 V	922.4 ㎒	4 542.46	-65.68
	923.0 ㎒	4 238.76	-64.58
	923.4 ㎒	4 454.55	-65.84
DC 3.0 V	922.4 ㎒	4 694.31	-66.00
	923.0 ㎒	4 146.85	-64.76
	923.4 ㎒	1 841.16	-64.94
DC 2.7 V	922.4 ㎒	2 844.16	-65.05
	923.0 ㎒	3 971.03	-65.37
	923.4 ㎒	1 841.16	-65.22

The authenticity of the test report, contact kes@kes.co.kr

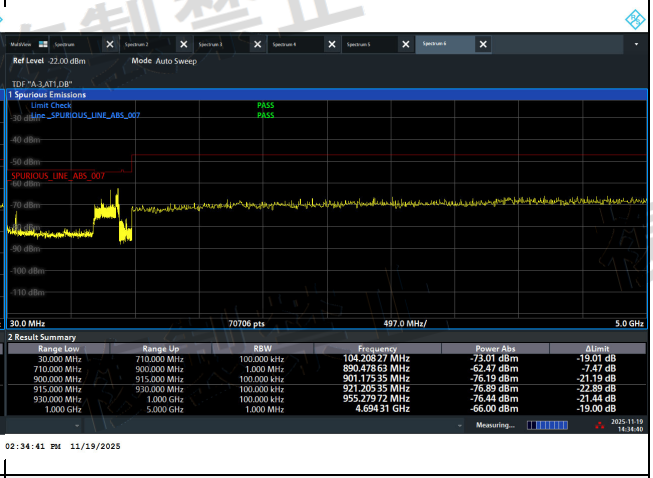
Test plots

Frequency : 922.4 MHz

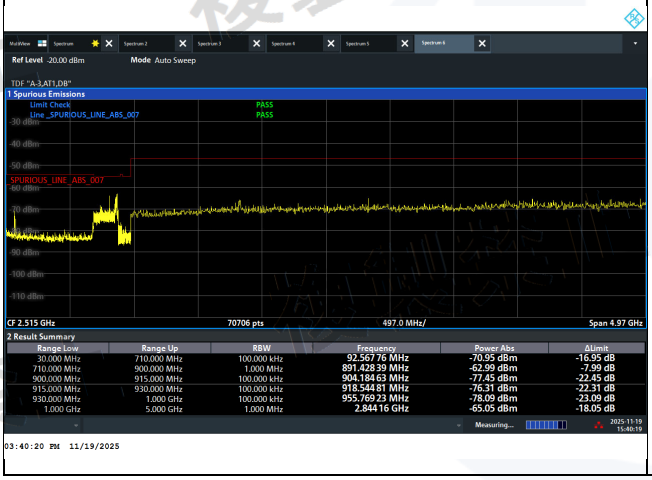
DC 3.3 V



DC 3.0 V



DC 2.7 V



N/A

N/A

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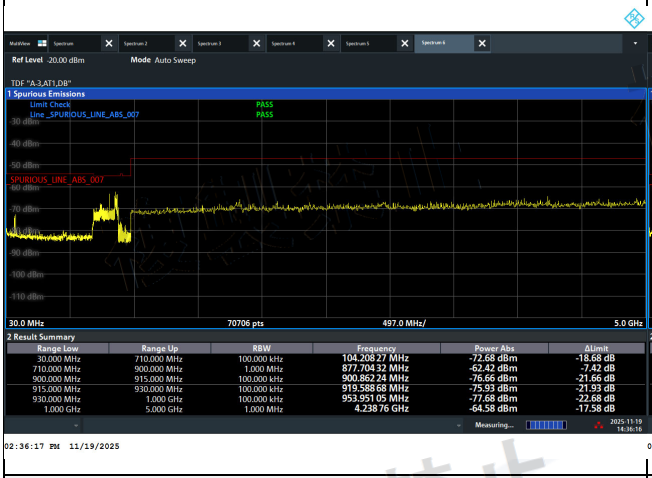
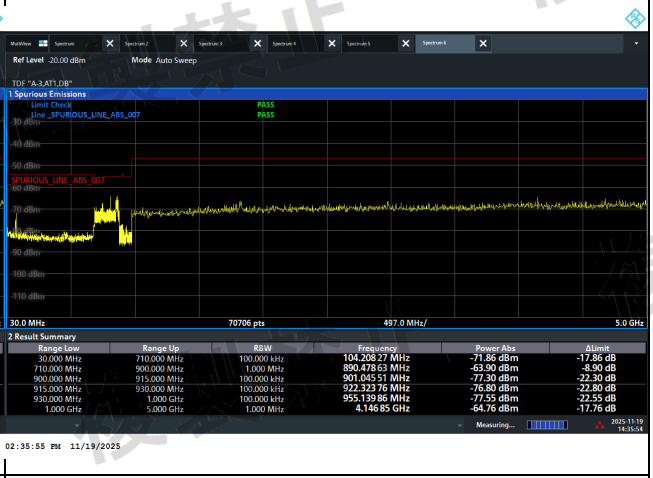
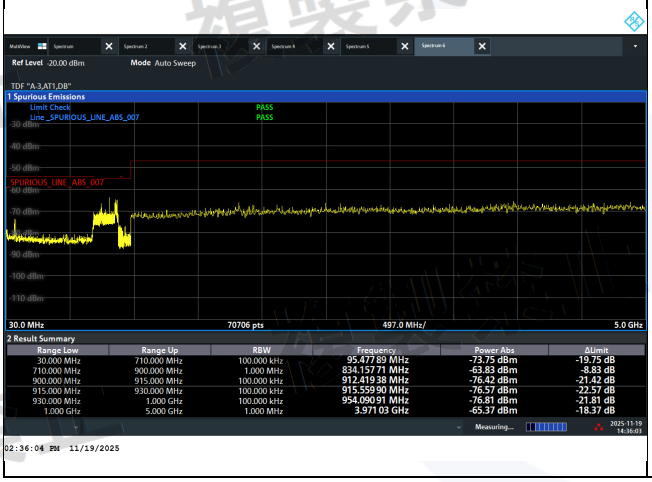
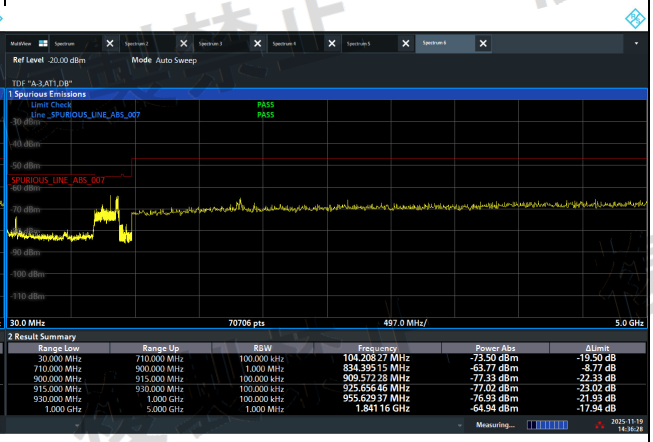
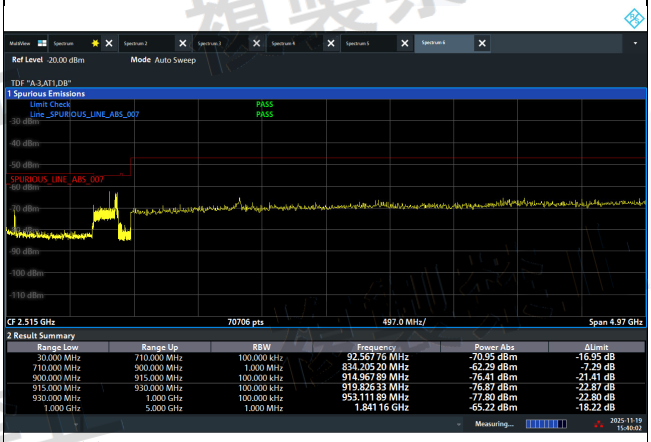
Frequency : 923.0 MHz	
DC 3.3 V	**DC 3.0 V**
	
DC 2.7 V	**N/A**
	N/A

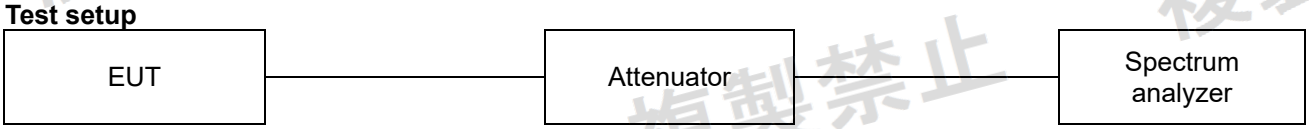
The authenticity of the test report, contact kes@kes.co.kr

Frequency : 923.4 MHz	
DC 3.3 V	**DC 3.0 V**
	
DC 2.7 V	**N/A**
	N/A

The authenticity of the test report, contact kes@kes.co.kr

3.7. Transmission time

Test setup

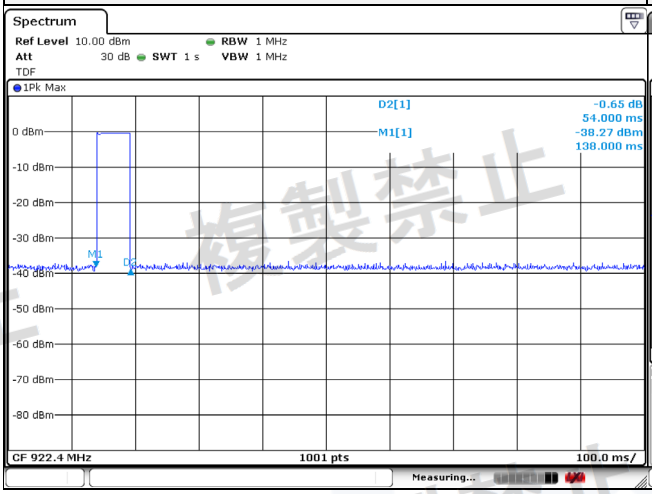


Limit

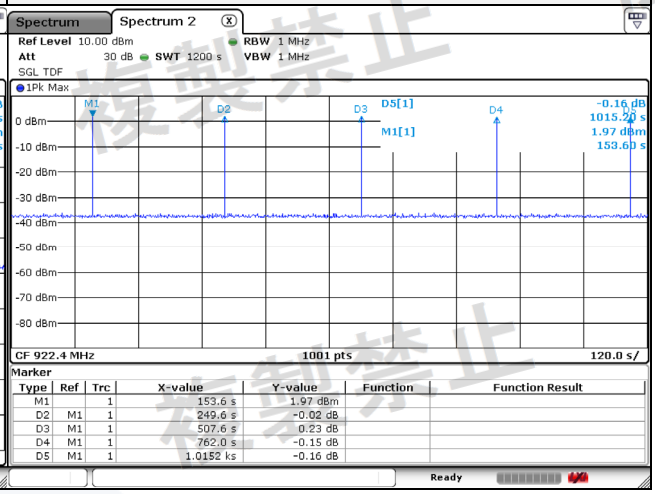
Transmission Time : 100 ms or less

The sum of transmission time per arbitrary one Hour : 3.6 s or less

Transmission Time_922.4 MHz



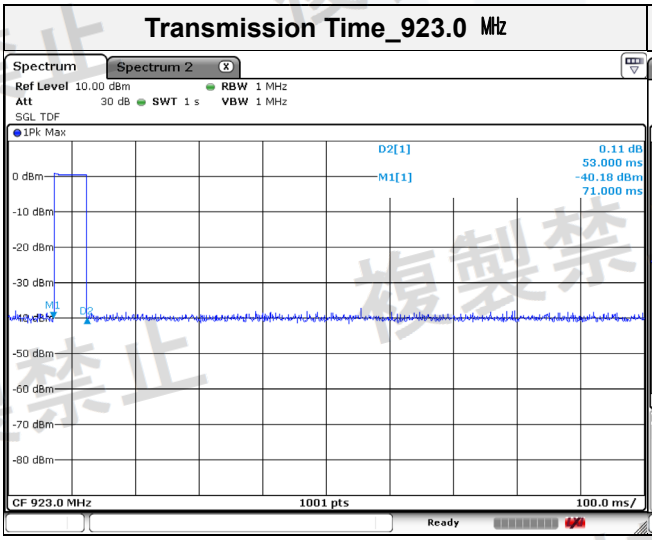
20s Transmission Signal_922.4 MHz



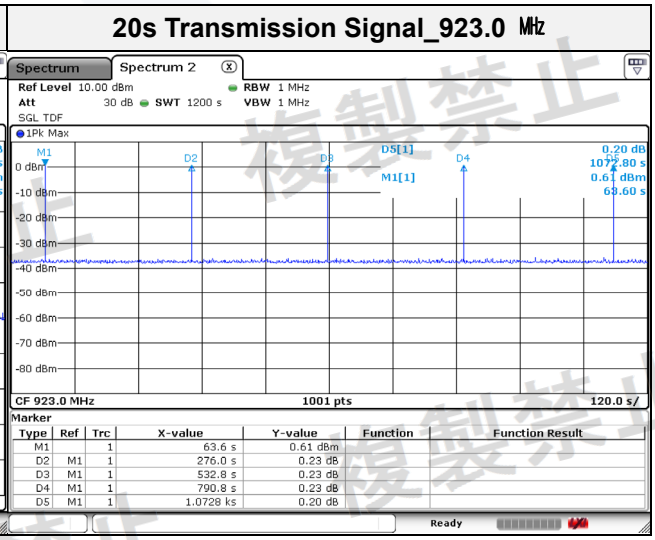
Transmission Time : 54 ms

The sum of transmission time per arbitrary one Hour : 810 ms(20s Transmission Signal x 3)

Transmission Time_923.0 MHz



20s Transmission Signal_923.0 MHz



Transmission Time : 53 ms

The sum of transmission time per arbitrary one Hour : 795 ms(20s Transmission Signal x 3)

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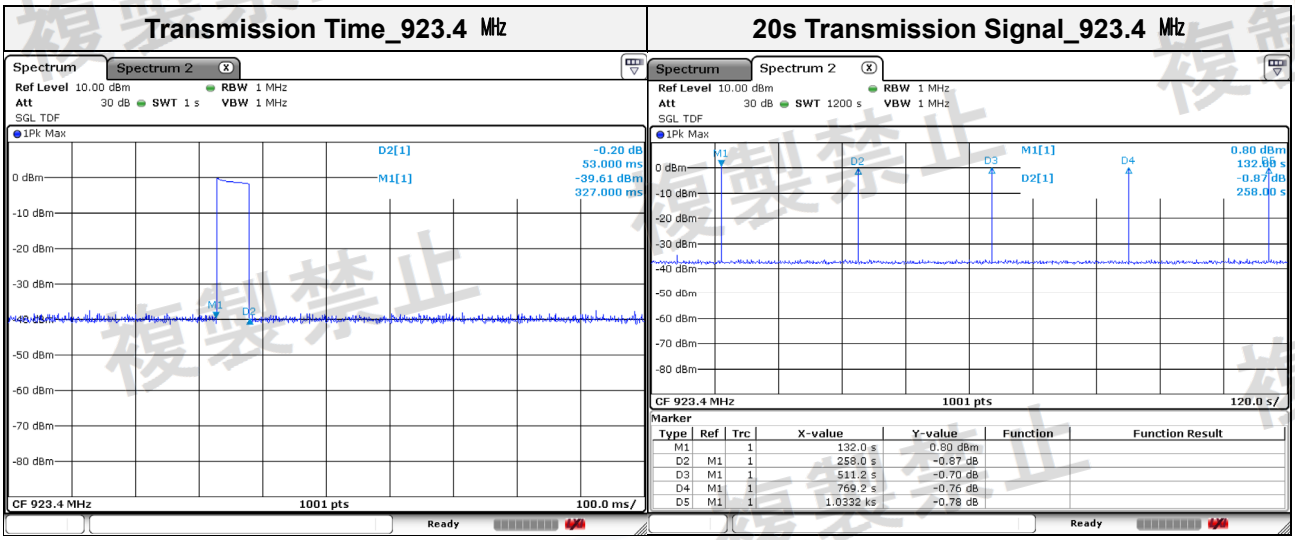

Transmission Time : 53 ms

The sum of transmission time per arbitrary one Hour : 795 ms(20s Transmission Signal x 3)

The authenticity of the test report, contact kes@kes.co.kr

Appendix A. Measurement equipment

Equipment 24-2 paragraph4 「ハ」	Manufacturer	Model	Serial No.	Calibration Interval	Calibration Lab	Calibration due.
SPECTRUM ANALYZER	R&S	FSV40-N	102194	1 year	HCT	2026.07.31
SPECTRUM ANALYZER	R&S	FSV3030	101800	1 year	HCT	2026.01.10
SIGNAL GENERATOR	Anritsu	68369B	992113	1 year	HCT	2026.01.10
Power Meter	Anritsu	ML2495A	1438001	1 year	HCT	2026.01.10
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	HCT	2026.01.10
ATTENUATOR	KEYSIGHT	8493C	82506	1 year	HCT	2026.01.13
DC BLOCK	Agilent	11742A	66710	1 year	HCT	2026.01.13
DC POWER SUPPLY	AGILENT	6632B	US36351824	1 year	HCT	2026.01.10
Frequency Counter	HP	5352B	3049A01336	1 year	HCT	2026.01.15
DIGITAL MULTI METER	TEKTRONIX	DMM916	138401	1 year	HCT	2026.06.12

* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
-	-	-	-

The end.

The authenticity of the test report, contact kes@kes.co.kr