

TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si,
Gyeonggi-do, Korea
Tel: +82-1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-02455
Page (1) / (23) Pages

1. Applicant

- Name : SOLUM CO.,LTD.
- Address : 7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2026-04-03

2. Manufacturer

- Name : SOLUM CO.,LTD.

3. Use of Report : For FCC Certification & ISED Certification

4. Test sample / Model : Newton E-Paper 32" / EL315TVW6S

5. Date(s) of test : 2026-04-27

Test Standard (Method) used : FCC 47 CFR part 15 subpart C 15.247,

6. ANSI C63.10-2020, RSS-247, RSS-Gen

7. Testing Environment : refer to 7 page

8. Test Results : Compliance

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

(Address : 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, 17141 Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by:  (Signature) Seong-uk Park	Technical Manager:  (Signature) Young-taek Lee
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2026-09-02

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REPORT No.:
CTK-2026-02455
Page (2) / (23) Pages

REPORT REVISION HISTORY

Date	Revision	Page No
2026-09-02	Issued (CTK-2026-02455)	all

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REPORT No.:
CTK-2026-02455
Page (3) / (23) Pages

CONTENTS

1. General Product Description	4
1.1 Applicant Information	4
1.2 Manufacturer Information	4
1.3 Product Information	4
1.4 Peripheral Devices	5
2. Accreditations	6
2.1 Laboratory Accreditations and Listings	6
2.2 Calibration Details of Equipment used for Measurement.....	6
3. Test Specifications	7
3.1 Standards	7
3.2 Testing Environment	7
3.3 Mode of Operation during the Test	7
3.4 Measurement Uncertainty	8
3.5 Test Software	8
4. Technical Characteristic Test	9
4.1 Technical requirements for DFS(5250-5350 MHz and 5470-5725 MHz bands)오류! 책갈피가 정의되어 있지 않습니다.	
APPENDIX A – Test Equipment Used For Tests	23

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REPORT No.:
CTK-2026-02455
Page (4) / (23) Pages

1. General Product Description

1.1 Applicant Information

Company	SOLUM CO.,LTD.
Contact Point	7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Contact Person	Name : Ki Dong Lee E-mail : kdlee007@solu-m.com Tel : +82-31-8006-7677

1.2 Manufacturer Information

Manufacturer	SOLUM CO.,LTD.
Address	7F, 2354, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Factory #1	SOLUM VINA CO., LTD
Factory #1 Address	Plot B3, Ba Thien II Industrial Park, Thien Ke Ward, Binh Xuyen District, Vinh Phuc Province, VIETNAM

1.3 Product Information

FCC ID	2AFWN-EL315TVW6S	
IC	22800-EL315TVW6S	
Product Description	Newton E-Paper 32"	
Model name	EL315TVW6S	
Variant Model name	EL315TVW6S/WWW (For the EL315TVW6S/WWW variants, the RF specification has been changed from the base model's 2.4GHz SRD to Bluetooth LE due to software modifications. There are no changes to the WLAN, nor are there any other hardware changes.) EL315HVVW6S/WWW (For the variant models EL315HVVW6S/WWW, has no technical differences with each model except for the model name for marketing purposes.)	
Operating Frequency	UNII 1	5 180 MHz – 5 240 MHz(20 MHz_BW)
	UNII 2A	5 260 MHz – 5 320 MHz(20 MHz_BW)
	UNII 2C	5 500 MHz – 5 720 MHz(20 MHz_BW)
	UNII 3	5 745 MHz – 5 825 MHz(20 MHz_BW)
RF Output Power	802.11a : 12.30 dBm(16.982 mW) 802.11n HT20 : 14.36 dBm(27.290 mW)	
Antenna Specification	Antenna type : PCB Patch Antenna	
	UNII 1	Peak Gain : 5.22 dBi
	UNII 2A	Peak Gain : 5.62 dBi
	UNII 2C	Peak Gain : 5.74 dBi
	UNII 3	Peak Gain : 5.71 dBi
Antenna Configurations	802.11a : SISO 802.11n HT20 : SISO	
Type of Modulation	802.11a/n : OFDM	
Data Rate	802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 300 Mbps	
Power Source	DC 3.7 V(Battery)	

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REPORT No.:
CTK-2026-02455
Page (5) / (23) Pages

FVIN	V049(EL315TVW6S, EL315HVW6S/WWW), V008(EL315TVW6S/WWW)
Dynamic Frequency Selection	Slave without radar detection

1.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Notebook	Samsung Electronics Co., Ltd	550XDA	KQFJ99YRA002J0
AC Adapter	Samsung Electronics Co., Ltd	PA-1400-96	CN60BA4400295AD2VHNCHF042

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REPORT No.:
CTK-2026-02455
Page (6) / (23) Pages

2. Accreditations

2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

2.2 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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REPORT No.:
CTK-2026-02455
Page (7) / (23) Pages

3. Test Specifications

3.1 Standards

FCC Part Section(s)	ISED Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
15.407 (h)	RSS-247	Dynamic Frequency Selection (DFS)	e.i.r.p < 200 mW) : -62 dBm e.i.r.p (200 mW ~ 1 W) : -64 dBm	C	Conducted
<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 15.407, RSS-247 Issue 4, RSS-GEN Issue 5					
<u>Note 4:</u> The tests were performed according to the method of measurements prescribed in KDB No. 905462, ANSI C63.10-2020					

3.2 Testing Environment

Test Item	Test Date	Temperature (°C)	Relative Humidity (%)
Dynamic Frequency Selection (DFS)	2026-04-27	20 ±1	34 ±3

3.3 Mode of Operation during the Test

The EUT is operated in a manner representative of the typical of the equipments.

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REPORT No.:
CTK-2026-02455
Page (8) / (23) Pages

3.4 Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.

Coverage factor $k = 2$, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.50 dB (C.L.: Approx. 95 %, $k = 2$)
Time	10.00 % (C.L.: Approx. 95 %, $k = 2$)

3.5 Test Software

Conducted Test	NA
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REPORT No.:
CTK-2026-02455
Page (9) / (23) Pages

4. Technical Characteristic Test

4.1 Technical requirements for DFS(5250-5350 MHz and 5470-5725 MHz bands)

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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REPORT No.:
CTK-2026-02455
Page (10) / (23) Pages

**Table 3: DFS Detection Thresholds for Master Devices
and Client Devices with Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. See Note 3.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	



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REPORT No.:
CTK-2026-02455
Page (11) / (23) Pages

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

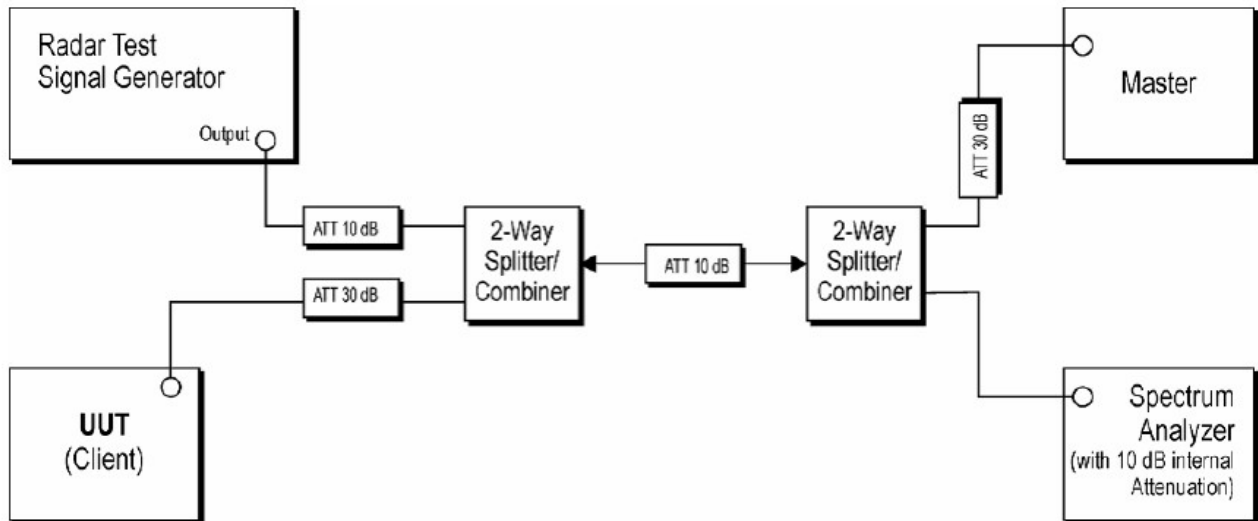
Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

4.2 Measuring Systematic diagram



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4.3 Description of EUT

Overview Of EUT With Respect To §15.407 (H) Requirements

The EUT operates over the 5250-5350 MHz and 5470-5725 MHz range.
 The EUT is a Client Device that does not have radar detection capability.
 The Slave device associated with the EUT during these tests does not have radar detection capability.

All tests are conducted with Pulse Type 0.
 A sample with temporary antenna connector was provided to perform the measurements in a conducted way.

The EUT utilizes the 802.11a/n architecture, with a nominal channel bandwidth of 20 MHz.
 The Master Device is a ASUS RT-AX88U 802.11a/b/g/n/ac/ax WLAN Access Point,
 FCC ID: MSQ-RTAXHP00
 Threshold level is lower than the required level hence it provides margin to the limit.

4.3.1 Test Channel

All test were performed at a channel center frequency of 5 320 MHz and 5 500 MHz for 20 MHz Bandwidth.

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REPORT No.:
CTK-2026-02455
Page (15) / (23) Pages

4.3.2 Test Result

DFS In-Service Monitoring (5320 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 75.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5320.000000	0.00	First of all Transmitt Test	---
5320.000000	0.00	Channel Move Time	PASS
5320.000000	0.00	Channel Closing Transmission Time	PASS
5320.000000	0.00	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5320.000000	not performed / not finished
5320.000000	
5320.000000	
5320.000000	

Channel Move Time Detailed Result

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5320.000000	0.00	0.811	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5320.000000	0.00	first 200 ms	32	6.732
5320.000000	0.00	remaining 10.0 second(s) period	73	17.592

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5320.000000	200.000	PASS	See Note 1.
5320.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)	NOP Result
5320.000000	0.00	0	0	0.000	0.000	PASS

Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5320.000000	---	not performed / not finished

Radar level verification

[EL-CTA-OP-X-KR-F-YS1506] Ver.06

Project Number: CTK-R-2026-01666

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REPORT No.:
CTK-2026-02455
Page (16) / (23) Pages

Description / Formula	Value	Unit
IF({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	100.00	mW
Configured DUT PSD:	6.99	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-0.60	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	36.50	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-37.11	dBm

Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)

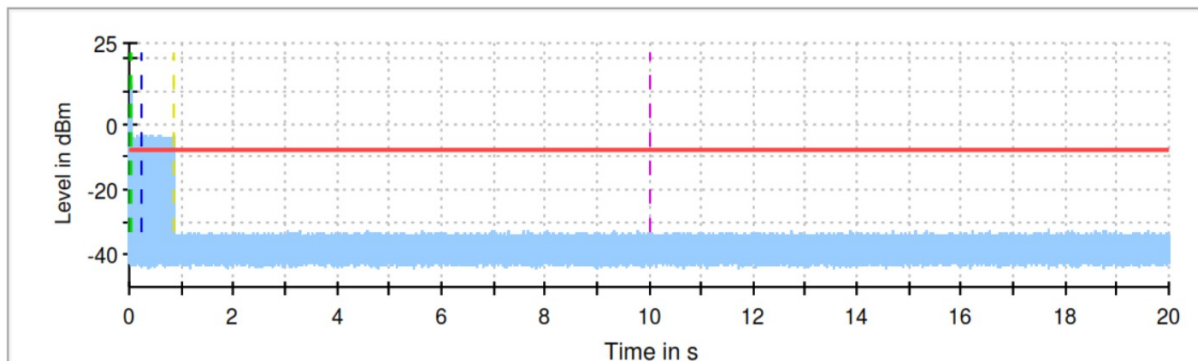


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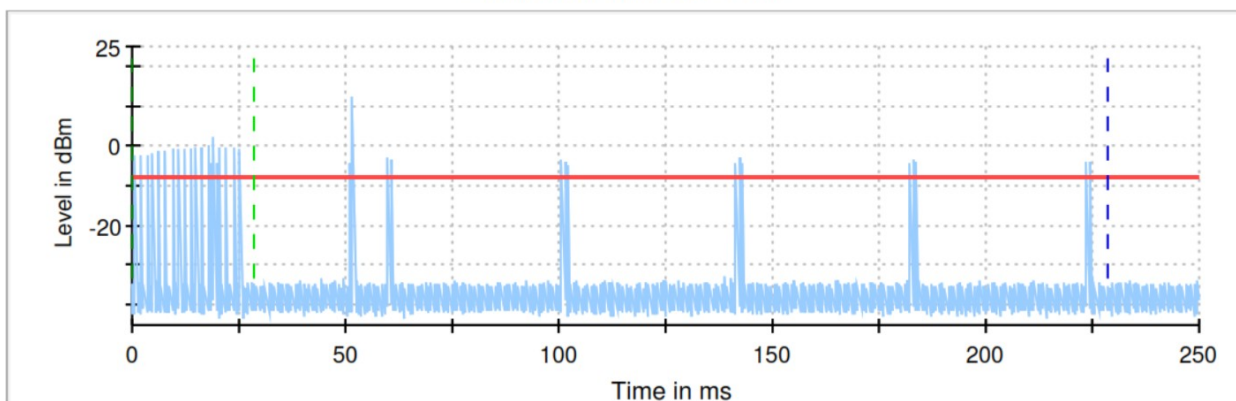
REPORT No.:
CTK-2026-02455
Page (17) / (23) Pages

Channel Move Time



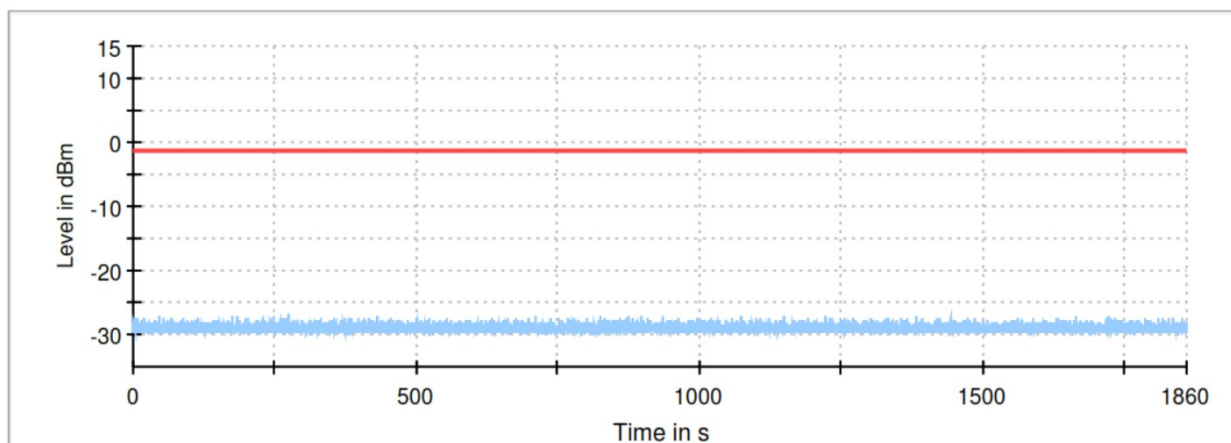
Channel Move Time
Start of Radar
First 200ms of Channel Closing Tx Time
Last measured edge of Channel Closing Tx Time
Threshold
Trigger at end of Radar
10sec Channel Move Time Limit

Channel Move Time first 200ms



Channel Move Time first 200ms
Start of Radar
First 200ms of Channel Closing Tx Time
Threshold
Trigger at end of Radar

Non-occupancy period



Non-occupancy period
Threshold

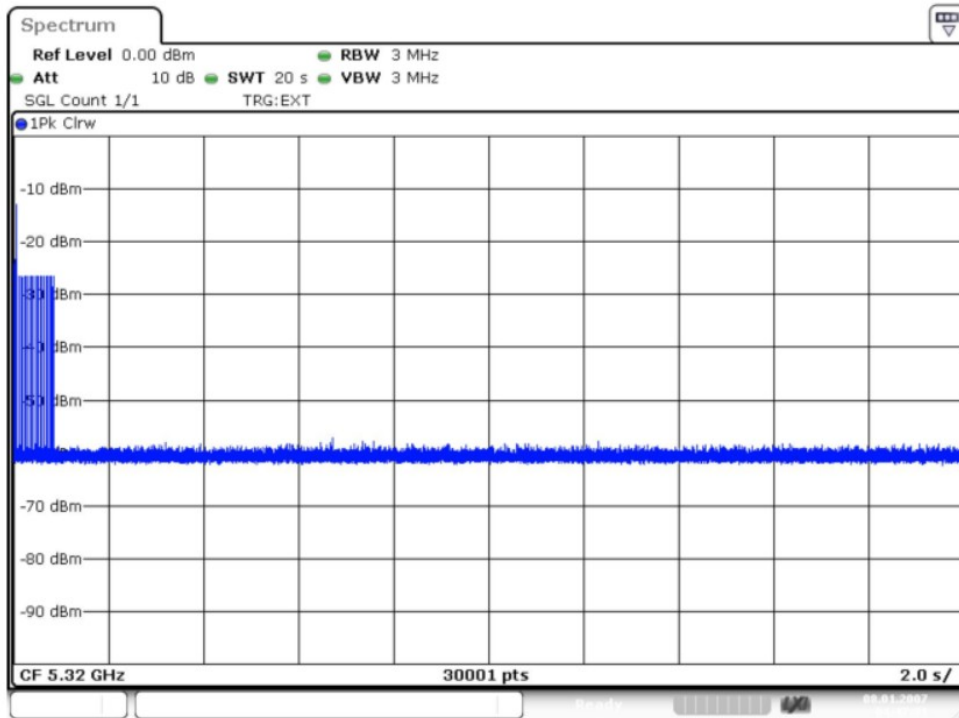


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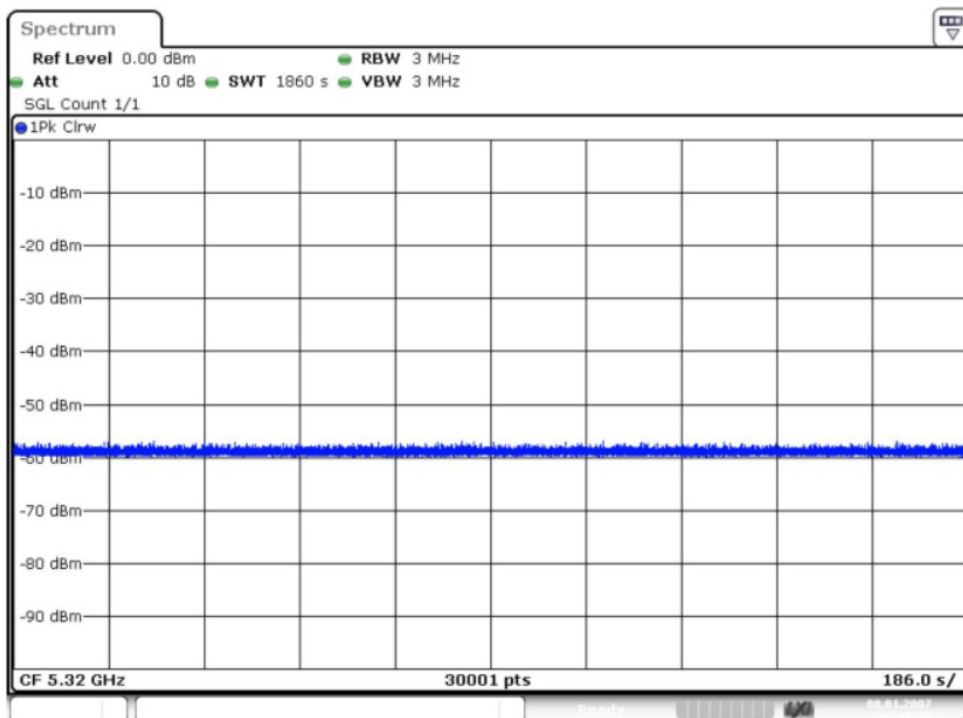
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REPORT No.:
CTK-2026-02455
Page (18) / (23) Pages

Channel Move Time



Non-occupancy period



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REPORT No.:
CTK-2026-02455
Page (19) / (23) Pages

DFS In-Service Monitoring (5500 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 75.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5500.000000	0.00	First of all Transmitt Test	---
5500.000000	0.00	Channel Move Time	PASS
5500.000000	0.00	Channel Closing Transmission Time	PASS
5500.000000	0.00	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5500.000000	not performed / not finished
5500.000000	
5500.000000	
5500.000000	

Channel Move Time Detailed Result

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result	CMT Comment
5500.000000	0.00	0.787	10.000	PASS	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5500.000000	0.00	first 200 ms	10	28.520
5500.000000	0.00	remaining 10.0 second(s) period	30	6.728

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5500.000000	200.000	PASS	See Note 1.
5500.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)	NOP Result
5500.000000	0.00	0	0	0.000	0.000	PASS

Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5500.000000	---	not performed / not finished

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REPORT No.:
CTK-2026-02455
Page (20) / (23) Pages

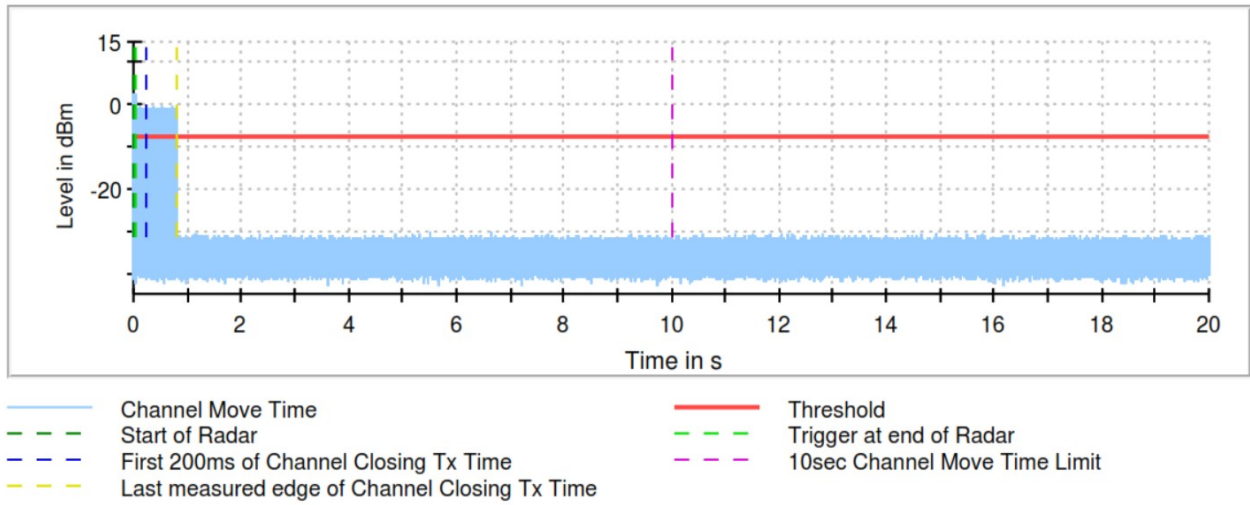
Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	100.00	mW
Configured DUT PSD:	6.99	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	0.53	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	37.44	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-36.91	dBm

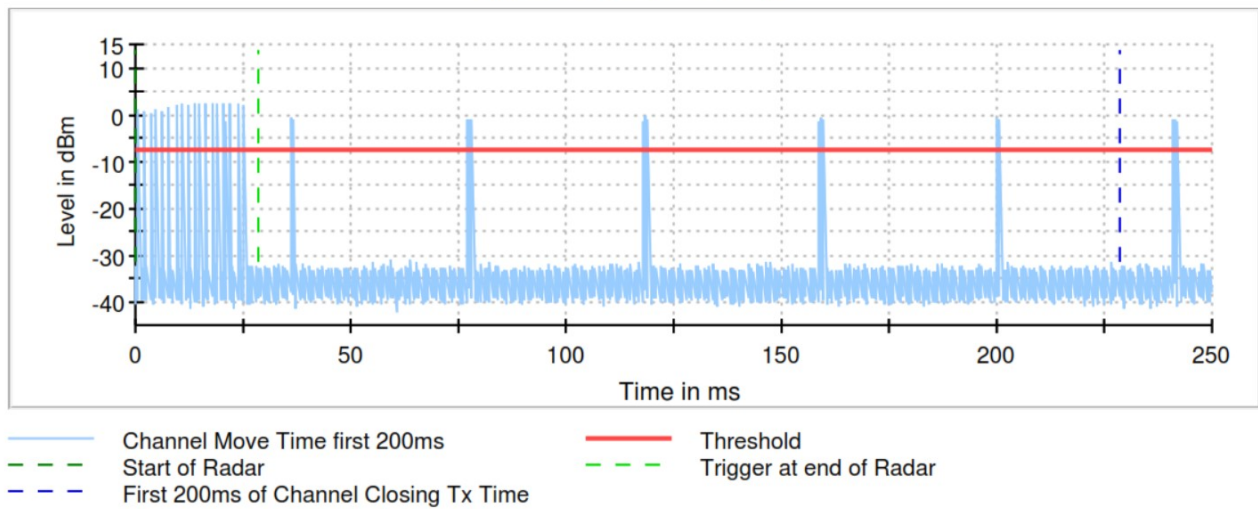
Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)

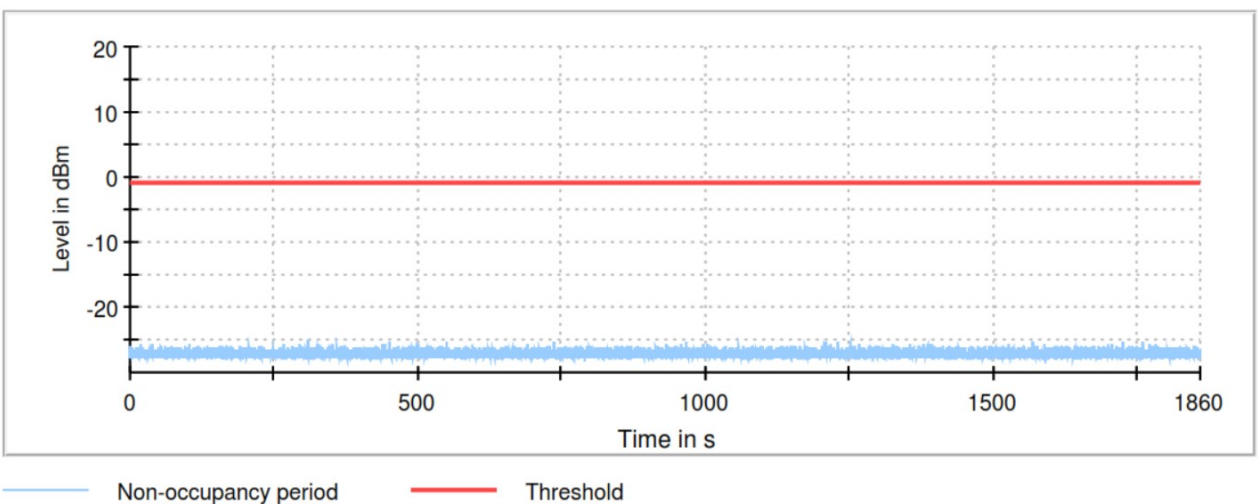
Channel Move Time



Channel Move Time first 200ms



Non-occupancy period



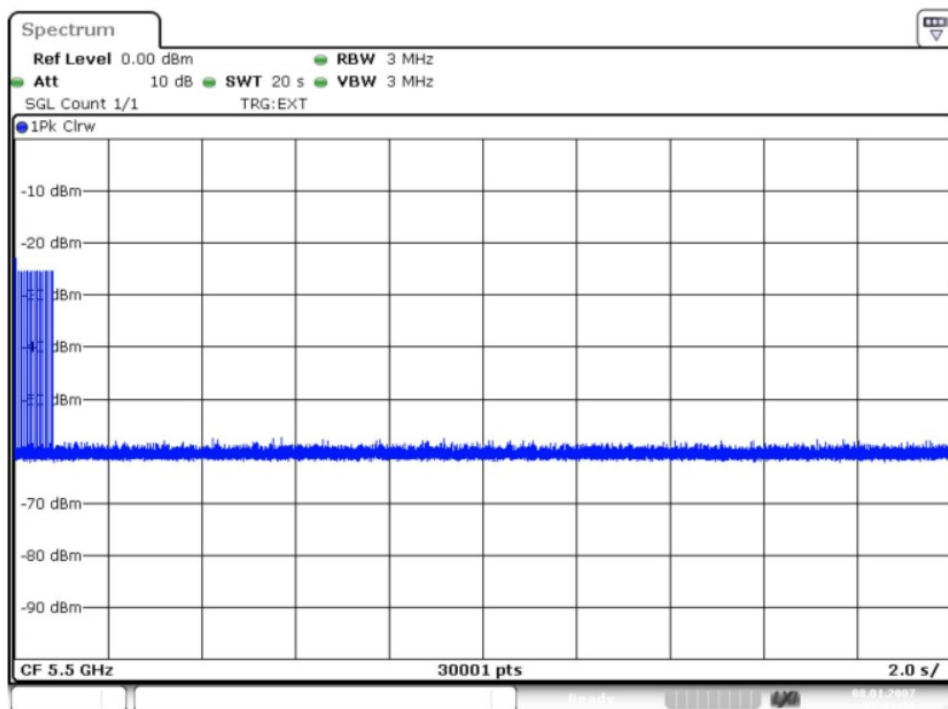


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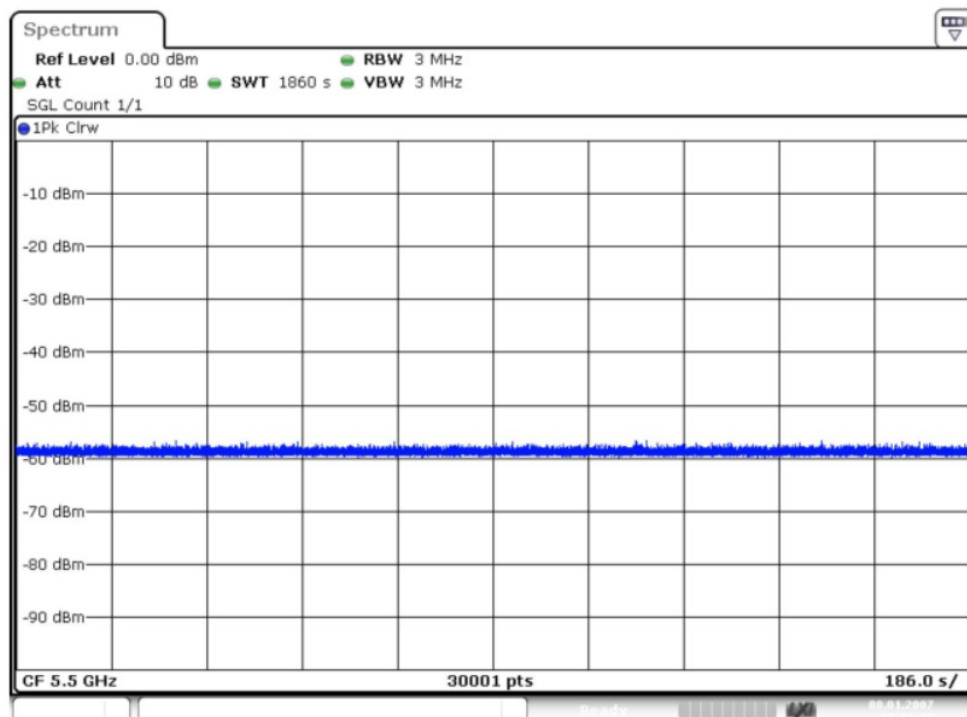
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REPORT No.:
CTK-2026-02455
Page (22) / (23) Pages

Channel Move Time



Non-occupancy period



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REPORT No.:
CTK-2026-02455
Page (23) / (23) Pages

APPENDIX A – Test Equipment Used For Tests

No	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Analyzer	Rohde & Schwarz	FSV-30	100925	2025-11-25	2026-11-25
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2026-03-12	2027-03-12
3	VECTOR SIGNAL GENERATOR	Rohde & Schwarz	SMBV100A	258008	2025-11-28	2026-11-28
4	OSP-B157W8 8 PORT	Rohde & Schwarz	OSP-B157W8	101051	2026-01-13	2027-01-13

No	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable	Junkosha Inc.	MWX221	2008S243	2026-04-27
2	RF Cable	Junkosha Inc.	MWX221	2008S249	2026-04-27
3	RF Cable	Junkosha Inc.	MWX221	1802S129	2026-04-27
	RF Cable	Junkosha Inc.	MWX221	1802S137	2026-04-27
	RF Cable	Junkosha Inc.	MWX221	1802S138	2026-04-27
4	RF Cable	Junkosha Inc.	MWX221	J12J102248-00-4	2026-04-27

-END-