



DFS TEST REPORT

Product	:	Digital Calendar
Model Name	:	DC15
FCC ID	:	2BDIP-DC15
Brand	:	Omiodo/Dopesplay
Report No.	:	PTC26012121101E-FC05
Prepared for		
Shenzhen yuko technology Co.,Ltd.		
Room 2001, Building 9, Qianhai Kexing Science Park, Laodong Community, Xixiang Street, Bao'an District, Shenzhen City 518100		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : Shenzhen yuko technology Co.,Ltd.

Address : Room 2001, Building 9, Qianhai Kexing Science Park, Laodong Community, Xixiang Street, Bao'an District, Shenzhen City 518100

Manufacture's name : Shenzhen yuko technology Co.,Ltd.

Address : Room 2001, Building 9, Qianhai Kexing Science Park, Laodong Community, Xixiang Street, Bao'an District, Shenzhen City 518100

Product name : Digital Calendar

Model name : DC15

Standards : FCC CFR47 Part 15 Section 15.407

Test procedure : KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
KDB 905462 D03 Clients Without Radar Detection New Rules v01r02

Test Date : Mar. 03 2026 to Mar. 18 2026

Date of Issue : Mar. 18 2026

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Dynamic Frequency Selection (DFS)	FCC CFR47 Part 15 Section 15.407	PASS



3 General Information

3.1 General Description of E.U.T.

Product Name	: Digital Calendar
Model Name	: DC15
Specification	: 802.11a/n HT20/HT40/ac20/ac40/ac80/ax20/ax40/ax80
Operation Frequency	WIFI 5G: 5180MHZ-5240MHZ 5260MHZ-5320MHZ 5500MHZ-5700MHZ 5745MHZ-5825MHZ
DFS operating modes	: Slave equipment without Radar Detection
The highest power	5260MHZ-5320MHZ: 13.83dBm/24.15mW (conducted) 15.2dBm/33.11mW (EIRP)
	5500MHZ-5700MHZ: 14.1dBm/25.7mW (conducted), 16.2dBm/41.69mW (EIRP)
The lowest power	5260MHZ-5320MHZ: 7.94dBm/6.22mW (conducted), 9.31dBm/8.53mW(EIRP)
	5500MHZ-5700MHZ: 7.88dBm/6.14mW (conducted), 9.98dBm/9.95mW(EIRP)
Number of Channel	24 channels for 802.11a/n20/ac20/ax20 11 channels for 802.11n40/ac40/ax40 5 channels for 802.11ac80/ax80
Type of Modulation	: OFDM, OFDMA
Antenna installation	: FPC antenna
Antenna Gain	2.36 dBi for 5180MHZ-5240MHZ 1.37 dBi for 5260MHZ-5320MHZ 2.1 dBi for 5500MHZ-5700MHZ 2.78 dBi for 5745MHZ-5825MHZ
Power supply	: DC 12V, 1.5A from Adapter
Hardware Version	: 1.0.51
Software Version	: YHK.C-calendar-A523M-1506-D4076-2616-A1.0.20260105
Test sample No.	: PTC26012121101E-1/2, PTC26012121101E-2/2



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3.2 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



4 Equipment During Test

4.1 Equipments List

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug.15, 2025	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.15, 2025	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.15, 2025	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.15, 2025	1 Year
MXG Vector Signal Generator	Agilent	N5182A	AT0-71847	9kHz-6GHz	Aug.15, 2025	1 Year
Analog Signal Generator	HP	83620A	3420A01830	10M~20GHZ	Aug.15, 2025	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/



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4.2 Description of Support Units

Equipment	Model No.	Manufacture	FCC ID
ROG Rapture GT-BE98 Pro BE30000 Quad-band Gaming Router	GT-BE98 Pro	ASUSTek Computer Inc.	MSQ-RTBE6M00



5 Dynamic Frequency Selection (DFS)

Test Requirement : FCC Part15 E Section 15.407 (h)(2)

Applicability of DFS Requirements Prior to Use a Channel

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	✓ note	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

Note: Regarding KDB 905462 D03 Client Without Radar Detection New Rules v01r02 section(b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Applicability of DFS Requirements during Normal Operation

Requirement	Operational Mode	
	Master or Client with radar detection	Client without radar detection
DFS Detection Threshold	✓	Not required
Channel Closing Transmission Time	✓	✓
Channel Move Time	✓	✓
U-NII Detection Bandwidth	✓	Not required

Additional requirements for devices with multiple bandwidth modes	Master or Client with radar detection	Client without radar detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	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.



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.

DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (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 U-NII Detection Bandwidth 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.



5.1 Parameters of DFS Test Signals

The following table lists the parameters of radar test signals

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 15 unique PRI values randomly selected within the range of 518~3066 μsec with a minimum of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{ sec}}} \right) \right\}$	60%	30
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.

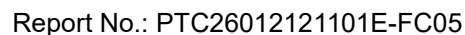


Long Pulse Radar Test Waveform

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
Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency. a) the Channel center frequency b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth It include 10 trails for every subset, the formula as below, For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel. For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by: $FL + (0.4 * \text{Chirp Width [in MHz]})$ For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by: $FH - (0.4 * \text{Chirp Width [in MHz]})$							

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



The measured channel is chosen from the operating channels of the UUT within the 5.25-5.35 GHz band and the 5.47-5.725 GHz and using the all bandwidth mode available for the link. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master antenna gain is 0dBi and required detection threshold is -63dBm (= -64dBm +0dBi+1dB). The calibrated conducted detection threshold level is set to less -63 dBm.

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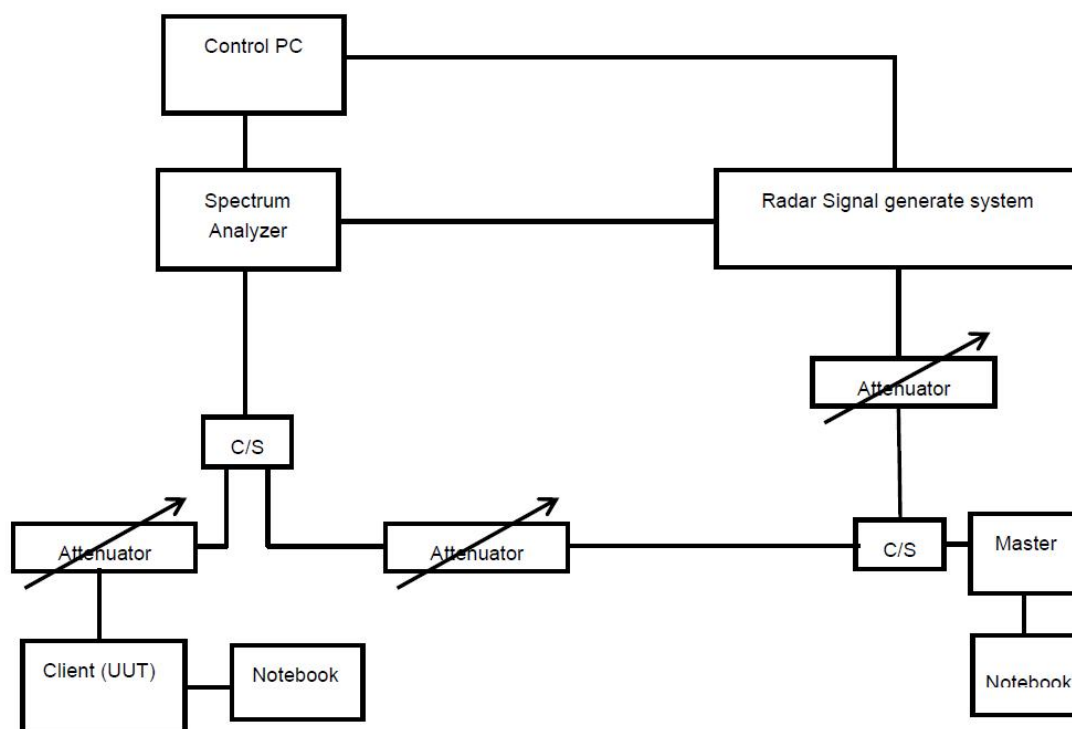
graph TD
    PC[Control PC] --- SA[Spectrum Analyzer]
    PC --- RSGS[Radar Signal generate system]
    RSGS --- A1[Attenuator]
    A1 --- CS1[C/S]
    CS1 --- A2[Attenuator]
    A2 --- L1[50Ω Load Terminator]
    SA --- L1
    SA --- CS2[C/S]
    CS2 --- A3[Attenuator]
    A3 --- L2[50Ω Load Terminator]
    L2 --- SA
  
```

5.3 Test Procedure

The Client Device (UUT) is set up to associate with the Master Device. The channel loading test file is streamed from the Master Device to the Client Device. Radar test waveforms generated with the vector signal generator are injected into the Master on the operating channel above the DFS detection threshold. Observations are done on the transmissions of the UUT at the end of the radar burst on the Operating Channel for a duration greater than 10 seconds.

We measured the transmissions from the UUT during the observation time, after radar detection occurs the Channel Move Time and Channel Closing Transmission Time are recorded.

5.4 Test Setup





5.5 Test Result

Pass.

All the modulation modes were tested the data of the worst mode are recorded in the report.

DFS Detection Thresholds

Maximum Transmit Power is less than 200 mW, so detection threshold level is $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -63\text{dBm}$.

TestMode	Frequency[dbm]	Radar Type	Detection threshold level [dbm]	Verdict
11AX	5290	Type0	-63	PASS

Channel Move Time and Channel Closing Transmission Time

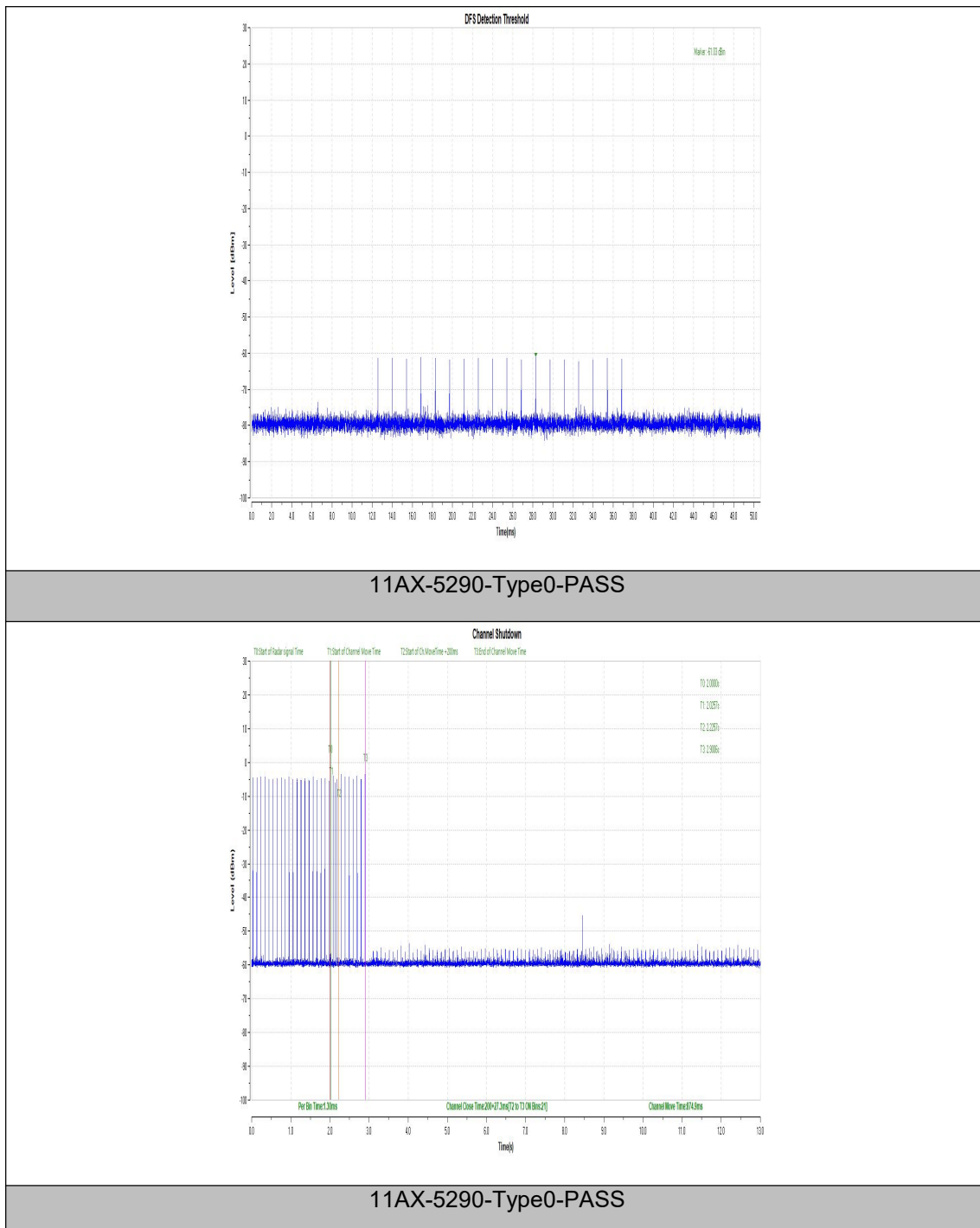
TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AX	5290	200+27.3	200+60	874.9	10000	PASS

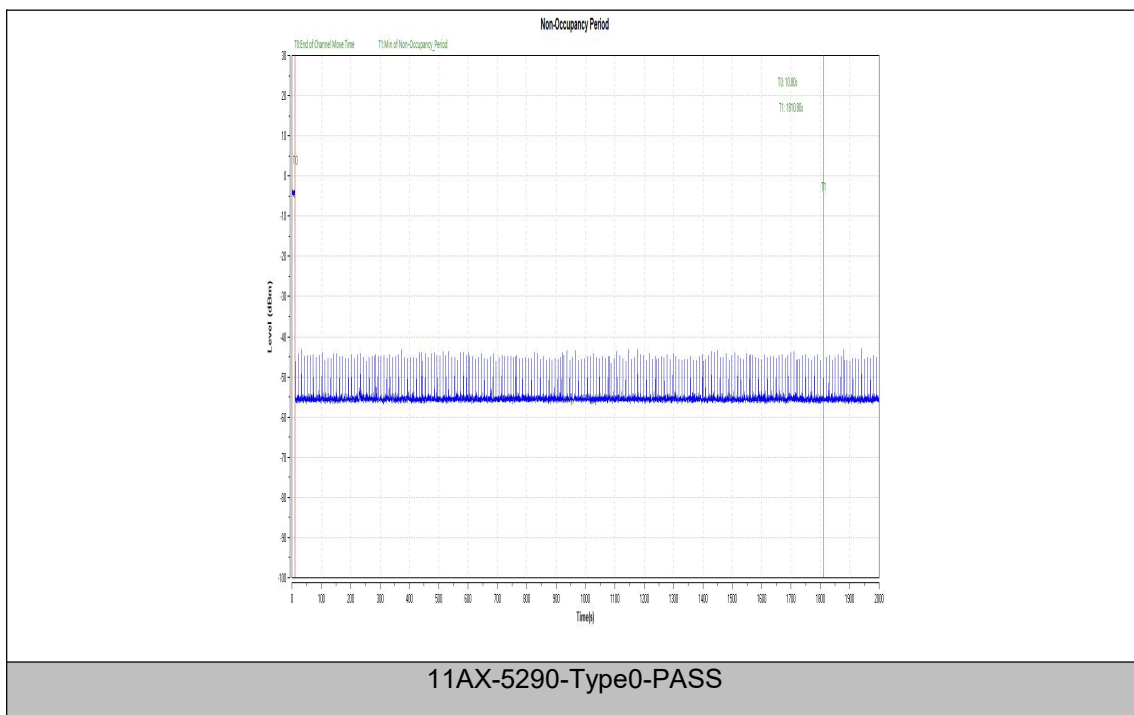
Non-Occupancy Period

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11AX	5290	see test graph	≥ 1800	PASS



Test Graphs





*****THE END REPORT*****