

# Detection Probability Test Report

2023-10-01-10:33:50



## Test Setup Information

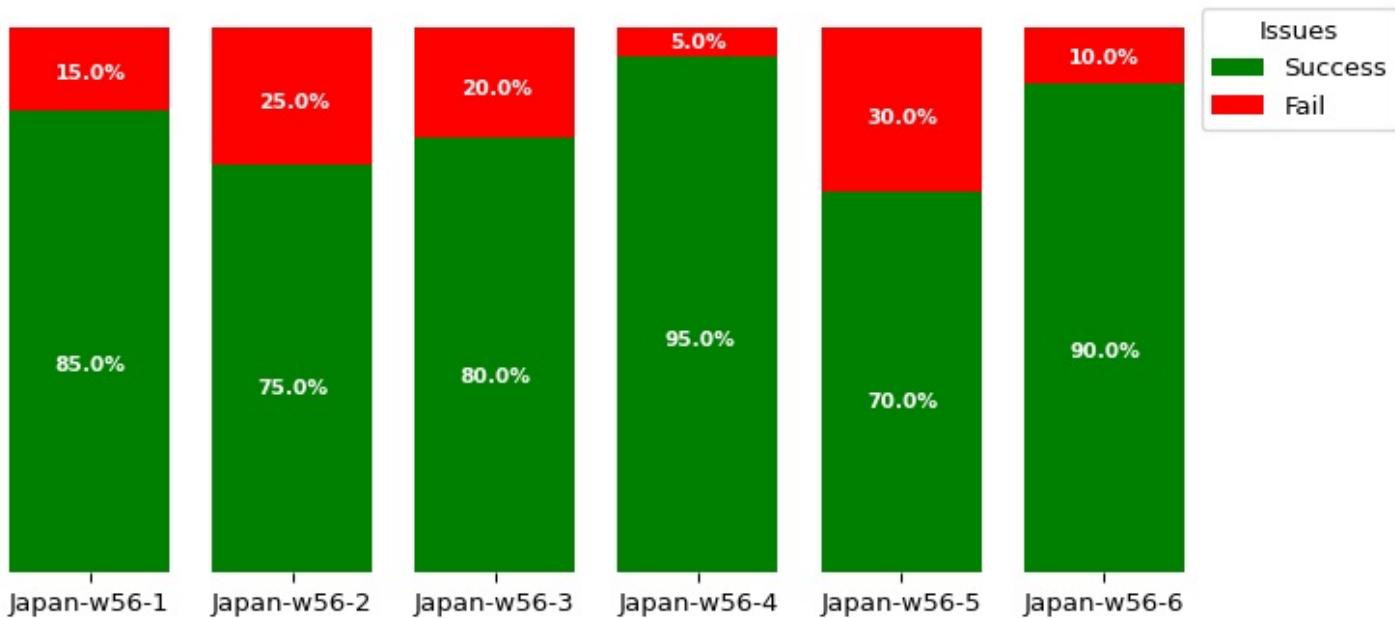
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	1:15:03

## Objective

Detection Probability Test is compliance to the Dynamic Frequency Selection (DFS) Regulation, it creates regulatory specified radar pulses to the DUT repeatedly to measure the probability of detection.

## Result Summary

The below graph provides information regarding detection probability percentage for various RADAR Types.



## Summary Table

The below table provides detailed information regarding detection probability percentage for various RADAR Types.

WaveForm Name	Pd %	Desired Percentage %	Pd Required Percentage %	Num Trials	Average Detect Time (secs)	Result
Japan-w56-1	85.0	60	60%	20	5.2	PASSED
Japan-w56-2	75.0	60	60%	20	4.5	PASSED
Japan-w56-3	80.0	60	60%	20	4.9	PASSED
Japan-w56-4	95.0	60	60%	20	5.7	PASSED
Japan-w56-5	70.0	60	60%	20	4.2	PASSED
Japan-w56-6	90.0	60	60%	20	5.4	PASSED

## Detailed Result Table

The below tables provides detailed information for per trials run for each RADAR Types

### Detailed Result Table for Japan-w56-1

The below table provides detailed information for per trials run for Japan-w56-1RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	18	0.5	720	YES	5590000	7.0
Trial_2	1	18	0.5	720	YES	5590000	6.7
Trial_3	1	18	0.5	720	YES	5590000	6.8
Trial_4	1	18	0.5	720	YES	5590000	6.9
Trial_5	1	18	0.5	720	YES	5590000	6.7
Trial_6	1	18	0.5	720	YES	5590000	6.8
Trial_7	1	18	0.5	720	YES	5590000	6.7
Trial_8	1	18	0.5	720	YES	5590000	6.9
Trial_9	1	18	0.5	720	YES	5590000	6.9
Trial_10	1	18	0.5	720	YES	5590000	6.8
Trial_11	1	18	0.5	720	NO	5590000	NA
Trial_12	1	18	0.5	720	YES	5590000	6.9
Trial_13	1	18	0.5	720	YES	5590000	6.8
Trial_14	1	18	0.5	720	YES	5590000	6.7
Trial_15	1	18	0.5	720	YES	5590000	6.8
Trial_16	1	18	0.5	720	YES	5590000	6.9
Trial_17	1	18	0.5	720	YES	5590000	6.7
Trial_18	1	18	0.5	720	YES	5590000	6.8
Trial_19	1	18	0.5	720	NO	5590000	NA
Trial_20	1	18	0.5	720	NO	5590000	NA

### Detailed Result Table for Japan-w56-2

The below table provides detailed information for per trials run for Japan-w56-2RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	18	1	700	NO	5590000	NA
Trial_2	1	18	1	700	NO	5590000	NA
Trial_3	1	18	1	700	NO	5590000	NA
Trial_4	1	18	1	700	YES	5590000	6.7
Trial_5	1	18	1	700	YES	5590000	6.8
Trial_6	1	18	1	700	YES	5590000	6.7
Trial_7	1	18	1	700	YES	5590000	6.7
Trial_8	1	18	1	700	YES	5590000	6.7
Trial_9	1	18	1	700	YES	5590000	6.7
Trial_10	1	18	1	700	NO	5590000	NA
Trial_11	1	18	1	700	YES	5590000	6.8
Trial_12	1	18	1	700	YES	5590000	6.7
Trial_13	1	18	1	700	YES	5590000	6.7
Trial_14	1	18	1	700	YES	5590000	6.7
Trial_15	1	18	1	700	YES	5590000	6.7
Trial_16	1	18	1	700	YES	5590000	6.7
Trial_17	1	18	1	700	YES	5590000	6.7

Trial_18	1	18	1	700	NO	5590000	NA
Trial_19	1	18	1	700	YES	5590000	6.7
Trial_20	1	18	1	700	YES	5590000	6.7

### Detailed Result Table for Japan-w56-3

The below table provides detailed information for per trials run for Japan-w56-3RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	18	2	250	YES	5590000	6.9
Trial_2	1	18	2	250	YES	5590000	6.9
Trial_3	1	18	2	250	YES	5590000	6.9
Trial_4	1	18	2	250	YES	5590000	7.0
Trial_5	1	18	2	250	YES	5590000	6.9
Trial_6	1	18	2	250	YES	5590000	6.9
Trial_7	1	18	2	250	YES	5590000	6.9
Trial_8	1	18	2	250	YES	5590000	6.8
Trial_9	1	18	2	250	YES	5590000	6.8
Trial_10	1	18	2	250	YES	5590000	6.9
Trial_11	1	18	2	250	YES	5590000	6.9
Trial_12	1	18	2	250	YES	5590000	6.9
Trial_13	1	18	2	250	YES	5590000	7.0
Trial_14	1	18	2	250	YES	5590000	6.9
Trial_15	1	18	2	250	NO	5590000	NA
Trial_16	1	18	2	250	NO	5590000	NA
Trial_17	1	18	2	250	NO	5590000	NA
Trial_18	1	18	2	250	NO	5590000	NA
Trial_19	1	18	2	250	YES	5590000	6.9
Trial_20	1	18	2	250	YES	5590000	6.8

### Detailed Result Table for Japan-w56-4

The below table provides detailed information for per trials run for Japan-w56-4RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	26	4.4	5090	YES	5590000	6.6
Trial_2	1	28	1.9	6436	YES	5590000	6.6
Trial_3	1	28	3.8	4693	YES	5590000	6.6
Trial_4	1	24	3.4	6617	YES	5590000	6.7
Trial_5	1	24	2.6	4469	YES	5590000	6.6
Trial_6	1	29	3.9	4378	YES	5590000	6.6
Trial_7	1	23	2.2	5172	YES	5590000	6.7
Trial_8	1	26	5.0	4929	YES	5590000	6.6
Trial_9	1	27	3.5	5180	YES	5590000	6.6
Trial_10	1	24	2.7	6314	YES	5590000	6.6
Trial_11	1	24	3.1	5100	YES	5590000	6.6
Trial_12	1	26	1.6	4780	YES	5590000	6.7
Trial_13	1	23	3.2	5953	YES	5590000	6.7
Trial_14	1	27	3.8	5239	NO	5590000	NA
Trial_15	1	23	1.8	6489	YES	5590000	6.9

Trial_16	1	25	3.5	4596	YES	5590000	6.7
Trial_17	1	26	3.3	6446	YES	5590000	6.6
Trial_18	1	24	2.5	6323	YES	5590000	6.6
Trial_19	1	26	1.5	6495	YES	5590000	6.8
Trial_20	1	23	4.4	5753	YES	5590000	6.7

### Detailed Result Table for Japan-w56-5

The below table provides detailed information for per trials run for Japan-w56-5RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	17	8.8	3932	YES	5590000	6.7
Trial_2	1	16	7.2	3775	NO	5590000	NA
Trial_3	1	18	6.0	2348	YES	5590000	6.8
Trial_4	1	18	9.0	3901	YES	5590000	6.8
Trial_5	1	17	8.9	2806	YES	5590000	6.7
Trial_6	1	17	10.0	3714	YES	5590000	6.7
Trial_7	1	17	6.9	2480	YES	5590000	6.7
Trial_8	1	17	8.0	2120	YES	5590000	6.7
Trial_9	1	16	9.6	3852	YES	5590000	6.7
Trial_10	1	18	7.4	4951	NO	5590000	NA
Trial_11	1	17	6.1	4367	NO	5590000	NA
Trial_12	1	18	8.1	3409	NO	5590000	NA
Trial_13	1	16	6.8	2884	NO	5590000	NA
Trial_14	1	16	8.4	2265	NO	5590000	NA
Trial_15	1	18	6.6	4116	YES	5590000	7.0
Trial_16	1	16	7.5	2405	YES	5590000	6.6
Trial_17	1	18	7.6	4083	YES	5590000	6.8
Trial_18	1	16	8.7	4340	YES	5590000	6.6
Trial_19	1	16	6.1	2037	YES	5590000	6.8
Trial_20	1	18	9.9	3309	YES	5590000	6.7

### Detailed Result Table for Japan-w56-6

The below table provides detailed information for per trials run for Japan-w56-6RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	12	12.9	3423	NO	5590000	NA
Trial_2	1	13	12.7	2895	YES	5590000	6.7
Trial_3	1	12	16.2	3926	YES	5590000	6.6
Trial_4	1	14	12.3	3470	YES	5590000	6.7
Trial_5	1	13	15.8	4271	YES	5590000	6.7
Trial_6	1	14	12.5	4068	YES	5590000	6.6
Trial_7	1	16	13.4	3084	YES	5590000	6.7
Trial_8	1	15	14.1	4643	YES	5590000	6.6
Trial_9	1	14	16.1	2618	YES	5590000	6.6
Trial_10	1	13	13.1	3592	YES	5590000	6.8
Trial_11	1	12	14.7	2184	YES	5590000	6.7
Trial_12	1	12	13.4	2735	YES	5590000	6.8
Trial_13	1	14	14.2	4721	YES	5590000	6.6

Trial_14	1	16	16.8	4722	YES	5590000	6.7
Trial_15	1	15	12.5	2431	YES	5590000	6.8
Trial_16	1	12	14.9	4434	YES	5590000	6.7
Trial_17	1	15	17.3	2000	NO	5590000	NA
Trial_18	1	13	16.2	3497	YES	5590000	6.9
Trial_19	1	15	11.5	4317	YES	5590000	6.7
Trial_20	1	12	15.9	2017	YES	5590000	6.7

## Test basic Information

Information	Parameters	Values
	LANforge ip	192.168.200.191
	LANforge port	8080
	Radar Types	['Japan-w56-1', 'Japan-w56-2', 'Japan-w56-3', 'Japan-w56-4', 'Japan-w56-5', 'Japan-w56-6']
	Radar Hardware	ct712
	Freq Channel Number	120
	Bandwidth	40 (MHz)
	Tx Power of radar in dbm	-39.44
	Desired Pass Percentage	60%
	Max Number of extra trials	0
	Time interval between Trials (secs)	0
	Run Traffic	True
	Frequency step option	Stay at centre freq for all Trials
	Contact	support@candletech.com

Generated by Candela Technologies LANforge network testing tool

[www.candletech.com](http://www.candletech.com)

