

Detection Probability Test Report

2023-10-01-10:33:50



Test Setup Information

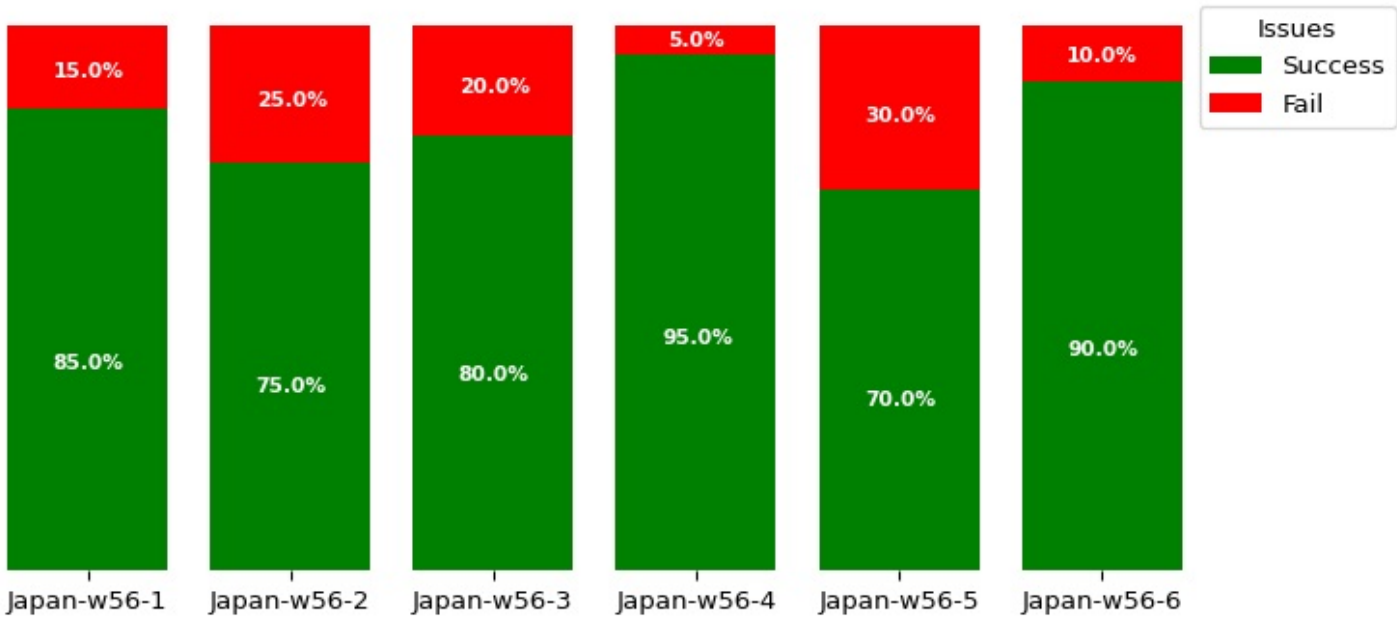
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	1:15:03

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@candelatech.com

