

# Detection Probability Test Report

2023-09-16-20:06:54



## Test Setup Information

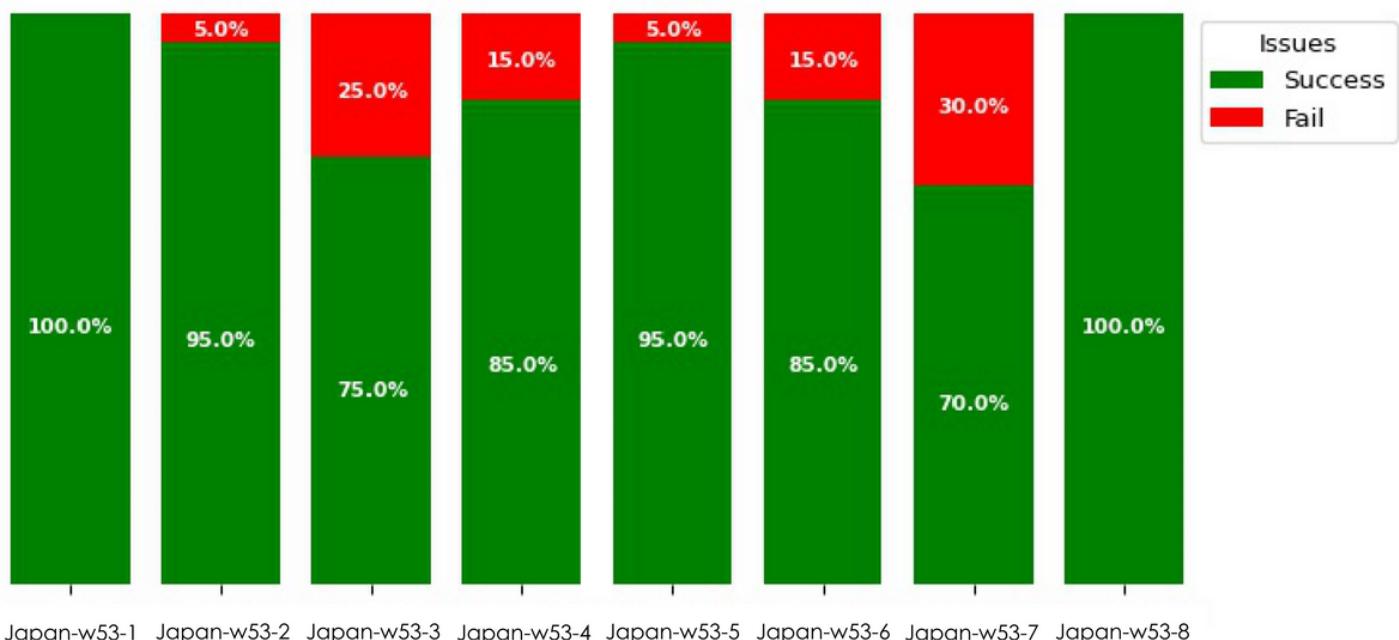
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	0:55:26

## 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-w53-1	100.0	60	60%	20	5.0	PASSED
Japan-w53-2	95.0	60	60%	20	4.8	PASSED
Japan-w53-3	75.0	60	60%	20	4.2	PASSED
Japan-w53-4	85.0	60	60%	20	4.4	PASSED
Japan-w53-5	95.0	60	60%	20	4.8	PASSED
Japan-w53-6	85.0	60	60%	20	4.3	PASSED
Japan-w53-7	70.0	60	60%	20	3.5	PASSED
Japan-w53-8	100.0	60	60%	20	5.1	PASSED

## Detailed Result Table

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

### Detailed Result Table for Japan-w53-1

The below table provides detailed information for per trials run for Japan-w53-1RADAR Type

Trials	Num Pulses	Pulse Width (us)	PRF	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	14	4.8	990	YES	5300000	5.6
Trial_2	35	0.8	735	YES	5300000	5.7
Trial_3	24	1.2	894	YES	5300000	5.4
Trial_4	34	0.6	389	YES	5300000	5.6
Trial_5	24	4.2	647	YES	5300000	5.5
Trial_6	18	4.5	897	YES	5300000	5.4
Trial_7	39	2.9	739	YES	5300000	5.7
Trial_8	12	4.9	816	YES	5300000	5.4
Trial_9	30	1.3	771	YES	5300000	5.5
Trial_10	25	3.9	454	YES	5300000	5.6
Trial_11	29	1.0	512	YES	5300000	5.6
Trial_12	26	3.1	309	YES	5300000	5.6
Trial_13	17	2.5	858	YES	5300000	5.7
Trial_14	11	3.3	810	YES	5300000	5.5
Trial_15	24	2.1	231	YES	5300000	5.7
Trial_16	20	1.2	691	YES	5300000	5.5
Trial_17	19	3.7	831	YES	5300000	5.5
Trial_18	26	3.1	446	YES	5300000	5.5
Trial_19	21	4.1	477	YES	5300000	5.7
Trial_20	13	3.2	909	YES	5300000	5.5

### Detailed Result Table for Japan-w53-2

The below table provides detailed information for per trials run for Japan-w53-2RADAR Type

Trials	Num Pulses	Pulse Width (us)	PRF	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	39	1.5	1471	YES	5300000	5.5
Trial_2	34	6.4	616	YES	5300000	5.6
Trial_3	39	14.7	1430	YES	5300000	5.6
Trial_4	29	10.2	999	YES	5300000	5.6
Trial_5	33	13.9	568	YES	5300000	5.6
Trial_6	38	6.5	926	YES	5300000	5.5
Trial_7	40	14.8	384	NO	5300000	NA
Trial_8	24	12.9	1551	YES	5300000	5.6
Trial_9	36	12.8	1195	YES	5300000	5.5
Trial_10	24	0.5	968	YES	5300000	5.5
Trial_11	28	13.0	636	YES	5300000	5.6
Trial_12	35	15.0	861	YES	5300000	5.5
Trial_13	23	11.0	817	YES	5300000	5.5
Trial_14	33	9.7	248	YES	5300000	5.9
Trial_15	40	12.0	811	YES	5300000	5.6
Trial_16	15	14.0	287	YES	5300000	5.5

Trial_17	33	11.7	274	YES	5300000	5.8
Trial_18	22	12.8	909	YES	5300000	5.5
Trial_19	29	13.3	1231	YES	5300000	5.6
Trial_20	29	10.3	1113	YES	5300000	5.6

### Detailed Result Table for Japan-w53-3

The below table provides detailed information for per trials run for Japan-w53-3RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.8	70	86	1.2	239	35	YES	5300000	6.4
Trial_2	1	4.8	87	36	1.5	365	26	YES	5300000	6.1
Trial_3	1	1.0	101	68	1.0	844	32	YES	5300000	5.9
Trial_4	1	1.5	78	49	1.9	527	33	YES	5300000	5.8
Trial_5	1	4.9	97	93	1.8	472	38	YES	5300000	6.0
Trial_6	1	2.6	100	88	1.6	221	23	YES	5300000	6.2
Trial_7	1	4.3	107	83	1.0	257	25	YES	5300000	6.0
Trial_8	1	1.3	107	35	1.4	961	22	YES	5300000	5.6
Trial_9	1	3.2	85	55	1.9	535	40	YES	5300000	5.9
Trial_10	1	0.5	114	61	1.1	358	38	YES	5300000	6.2
Trial_11	1	4.7	98	75	2.0	665	39	YES	5300000	6.0
Trial_12	1	4.5	113	79	1.5	469	32	YES	5300000	6.0
Trial_13	1	0.9	115	38	1.5	886	32	YES	5300000	5.7
Trial_14	1	5.0	87	25	1.3	725	31	YES	5300000	5.8
Trial_15	1	2.0	71	104	1.4	905	37	YES	5300000	5.7
Trial_16	1	2.8	105	28	1.3	820	38	NO	5300000	NA
Trial_17	1	3.2	117	95	1.8	783	31	NO	5300000	NA
Trial_18	1	5.0	77	22	2.0	542	27	NO	5300000	NA
Trial_19	1	3.4	120	33	1.8	794	25	NO	5300000	NA
Trial_20	1	1.2	110	49	1.4	458	38	NO	5300000	NA

### Detailed Result Table for Japan-w53-4

The below table provides detailed information for per trials run for Japan-w53-4RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	2.3	74	78	2.0	840	38	NO	5300000	NA
Trial_2	1	0.8	75	68	1.0	302	28	NO	5300000	NA
Trial_3	1	3.1	84	75	2.0	419	31	NO	5300000	NA
Trial_4	1	4.4	110	49	1.5	486	25	YES	5300000	5.8
Trial_5	1	2.1	77	85	2.0	1169	28	YES	5300000	5.7
Trial_6	1	2.2	113	94	1.1	1299	28	YES	5300000	5.5
Trial_7	1	0.9	84	34	1.1	850	39	YES	5300000	5.8
Trial_8	1	3.7	91	93	1.2	860	37	YES	5300000	5.7
Trial_9	1	0.5	108	79	1.4	1405	39	YES	5300000	5.6
Trial_10	1	2.6	87	40	2.0	1282	36	YES	5300000	5.7
Trial_11	1	2.1	87	56	2.0	1189	39	YES	5300000	5.6
Trial_12	1	4.1	103	77	1.7	666	23	YES	5300000	5.6
Trial_13	1	4.2	105	65	1.3	1280	37	YES	5300000	5.6

Trial_14	1	1.0	115	32	1.2	382	39	YES	5300000	6.3
Trial_15	1	0.6	110	98	1.1	1380	26	YES	5300000	5.5
Trial_16	1	2.1	74	68	2.0	919	37	YES	5300000	5.8
Trial_17	1	4.1	119	101	1.9	1104	24	YES	5300000	7.0
Trial_18	1	1.8	87	38	1.7	395	22	YES	5300000	5.9
Trial_19	1	2.0	95	35	1.3	1052	34	YES	5300000	5.7
Trial_20	1	3.5	108	110	1.3	914	37	YES	5300000	5.7

### Detailed Result Table for Japan-w53-5

The below table provides detailed information for per trials run for Japan-w53-5RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.0	96	32	2.0	1115	39	YES	5300000	5.6
Trial_2	1	1.4	141	31	1.6	1114	40	YES	5300000	5.7
Trial_3	1	0.7	231	30	1.1	1114	32	YES	5300000	5.7
Trial_4	1	0.9	211	32	1.3	1117	39	YES	5300000	5.7
Trial_5	1	0.6	211	31	1.8	1116	37	YES	5300000	5.6
Trial_6	1	1.5	85	31	1.6	1117	29	YES	5300000	5.6
Trial_7	1	1.5	121	31	1.4	1116	39	YES	5300000	5.6
Trial_8	1	0.6	175	31	1.3	1118	35	YES	5300000	5.7
Trial_9	1	1.3	136	32	1.5	1116	37	YES	5300000	5.6
Trial_10	1	0.7	71	31	1.9	1114	37	YES	5300000	5.7
Trial_11	1	0.9	115	30	2.0	1115	36	YES	5300000	5.7
Trial_12	1	1.5	115	32	2.0	1114	34	YES	5300000	5.8
Trial_13	1	1.0	57	32	2.0	1114	36	YES	5300000	5.7
Trial_14	1	0.6	210	32	1.1	1118	38	NO	5300000	NA
Trial_15	1	1.5	172	32	1.7	1114	31	YES	5300000	5.7
Trial_16	1	0.5	99	30	1.0	1118	40	YES	5300000	5.6
Trial_17	1	1.0	75	31	1.4	1117	39	YES	5300000	7.1
Trial_18	1	1.1	136	32	1.7	1118	30	YES	5300000	5.5
Trial_19	1	0.7	131	32	1.4	1117	32	YES	5300000	5.7
Trial_20	1	1.4	151	30	1.8	1114	39	YES	5300000	5.6

### Detailed Result Table for Japan-w53-6

The below table provides detailed information for per trials run for Japan-w53-6RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.3	63	32	1.3	929	26	YES	5300000	5.7
Trial_2	1	0.9	142	31	1.2	929	25	YES	5300000	5.7
Trial_3	1	0.8	66	31	1.8	928	34	YES	5300000	5.6
Trial_4	1	1.0	100	32	1.5	930	38	YES	5300000	5.8
Trial_5	1	0.7	69	30	1.1	931	27	YES	5300000	5.8
Trial_6	1	1.1	216	32	1.9	932	38	YES	5300000	5.8
Trial_7	1	0.8	174	31	1.0	929	25	YES	5300000	5.5
Trial_8	1	1.0	51	31	2.0	929	24	YES	5300000	5.6
Trial_9	1	1.5	103	31	1.5	931	31	YES	5300000	5.7
Trial_10	1	1.5	197	32	1.8	930	36	YES	5300000	5.7

Trial_11	1	0.8	152	31	1.3	930	36	YES	5300000	5.7
Trial_12	1	0.7	106	32	1.6	928	25	YES	5300000	5.7
Trial_13	1	0.6	82	30	1.1	929	27	YES	5300000	7.8
Trial_14	1	1.0	91	30	1.1	930	31	YES	5300000	5.7
Trial_15	1	0.8	136	31	1.2	931	31	YES	5300000	5.6
Trial_16	1	1.2	76	32	1.3	932	35	YES	5300000	5.6
Trial_17	1	1.0	146	31	2.0	931	28	YES	5300000	5.7
Trial_18	1	1.2	107	32	1.6	932	39	NO	5300000	NA
Trial_19	1	0.8	224	31	1.3	930	37	NO	5300000	NA
Trial_20	1	0.6	83	30	1.1	931	26	NO	5300000	NA

### Detailed Result Table for Japan-w53-7

The below table provides detailed information for per trials run for Japan-w53-7RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	0.6	71	32	1.1	886	31	NO	5300000	NA
Trial_2	1	0.7	200	31	1.7	889	39	NO	5300000	NA
Trial_3	1	0.7	202	31	2.0	889	32	NO	5300000	NA
Trial_4	1	1.0	205	32	1.6	887	38	NO	5300000	NA
Trial_5	1	0.9	130	31	1.3	887	35	NO	5300000	NA
Trial_6	1	0.9	138	32	1.9	886	37	YES	5300000	5.8
Trial_7	1	1.4	206	31	1.5	887	28	YES	5300000	5.7
Trial_8	1	1.5	105	30	1.5	886	37	YES	5300000	5.8
Trial_9	1	0.7	154	31	1.2	889	36	YES	5300000	5.7
Trial_10	1	0.5	201	31	1.9	889	31	YES	5300000	5.7
Trial_11	1	0.8	117	30	1.4	886	25	YES	5300000	5.5
Trial_12	1	1.3	203	30	1.4	890	40	YES	5300000	5.8
Trial_13	1	1.0	157	31	1.2	889	38	YES	5300000	5.7
Trial_14	1	1.4	83	32	1.9	889	37	YES	5300000	5.7
Trial_15	1	0.7	118	31	1.5	889	31	YES	5300000	5.7
Trial_16	1	0.7	159	32	1.0	886	40	YES	5300000	5.7
Trial_17	1	1.5	104	31	1.3	887	25	YES	5300000	5.6
Trial_18	1	1.3	168	32	1.8	886	38	YES	5300000	5.7
Trial_19	1	0.6	174	32	1.5	887	28	NO	5300000	NA
Trial_20	1	1.0	58	31	1.4	887	31	YES	5300000	5.7

### Detailed Result Table for Japan-w53-8

The below table provides detailed information for per trials run for Japan-w53-8RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	0.8	95	32	1.1	742	23	YES	5300000	5.8
Trial_2	1	0.8	152	31	1.8	739	20	YES	5300000	5.6
Trial_3	1	1.5	124	31	1.5	739	34	YES	5300000	5.7
Trial_4	1	0.6	161	32	1.4	739	32	YES	5300000	5.7
Trial_5	1	0.7	91	31	1.9	741	37	YES	5300000	5.7
Trial_6	1	1.4	143	31	1.8	740	39	YES	5300000	5.8

Trial_7	1	0.9	109	32	2.0	739	26	YES	5300000	5.7
Trial_8	1	0.9	168	32	1.5	740	27	YES	5300000	5.7
Trial_9	1	1.3	158	32	1.5	738	29	YES	5300000	5.7
Trial_10	1	1.2	152	32	1.8	738	29	YES	5300000	5.7
Trial_11	1	0.7	219	32	1.2	738	26	YES	5300000	5.7
Trial_12	1	0.8	123	31	1.1	739	31	YES	5300000	5.7
Trial_13	1	0.8	144	31	1.5	742	28	YES	5300000	5.7
Trial_14	1	1.3	159	32	1.3	740	20	YES	5300000	6.9
Trial_15	1	1.1	221	31	1.7	742	34	YES	5300000	6.0
Trial_16	1	0.8	74	31	1.9	739	25	YES	5300000	5.7
Trial_17	1	1.2	80	30	1.7	738	26	YES	5300000	5.7
Trial_18	1	1.3	79	32	1.4	742	24	YES	5300000	5.7
Trial_19	1	1.3	217	32	1.9	739	25	YES	5300000	5.7
Trial_20	1	0.8	149	30	1.1	739	21	YES	5300000	5.5

## Test basic Information

Information	Parameters	Values
	LANforge ip	192.168.200.91
	LANforge port	8080
	Radar Types	['Japan-w53-1', 'Japan-w53-2', 'Japan-w53-3', 'Japan-w53-4', 'Japan-w53-5', 'Japan-w53-6', 'Japan-w53-7', 'Japan-w53-8']
	Radar Hardware	ct712
	Freq Channel Number	60
	Bandwidth	20 (MHz)
	Tx Power of radar in dbm	-41.91
	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

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