

Detection Probability Test Report

2023-10-02-11:15:49



Test Setup Information

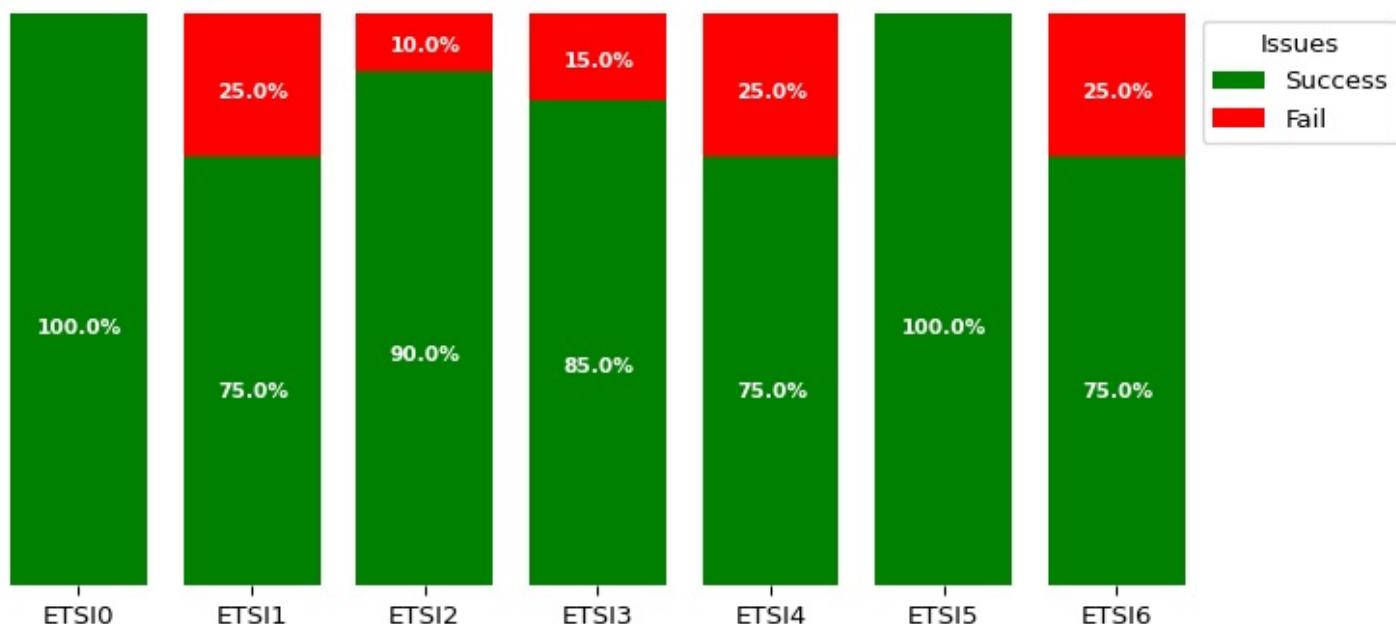
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	1:25:10

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
ETSI0	100.0	60	NA	20	6.3	PASSED
ETSI1	75.0	60	60%	20	3.8	PASSED
ETSI2	90.0	60	60%	20	4.5	PASSED
ETSI3	85.0	60	60%	20	4.2	PASSED
ETSI4	75.0	60	60%	20	3.8	PASSED
ETSI5	100.0	60	60%	20	5.0	PASSED
ETSI6	75.0	60	60%	20	3.8	PASSED

Detailed Result Table

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

Detailed Result Table for ETSI0

The below table provides detailed information for per trials run for ETSI0RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	18	1	700	YES	5530000	7.2
Trial_2	1	18	1	700	YES	5530000	6.8
Trial_3	1	18	1	700	YES	5530000	6.8
Trial_4	1	18	1	700	YES	5530000	6.7
Trial_5	1	18	1	700	YES	5530000	6.7
Trial_6	1	18	1	700	YES	5530000	6.7
Trial_7	1	18	1	700	YES	5530000	7.0
Trial_8	1	18	1	700	YES	5530000	7.0
Trial_9	1	18	1	700	YES	5530000	6.7
Trial_10	1	18	1	700	YES	5530000	6.7
Trial_11	1	18	1	700	YES	5530000	6.7
Trial_12	1	18	1	700	YES	5530000	6.7
Trial_13	1	18	1	700	YES	5530000	6.8
Trial_14	1	18	1	700	YES	5530000	6.8
Trial_15	1	18	1	700	YES	5530000	7.2
Trial_16	1	18	1	700	YES	5530000	6.9
Trial_17	1	18	1	700	YES	5530000	7.0
Trial_18	1	18	1	700	YES	5530000	6.8
Trial_19	1	18	1	700	YES	5530000	7.0
Trial_20	1	18	1	700	YES	5530000	6.8

Detailed Result Table for ETSI1

The below table provides detailed information for per trials run for ETSI1RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	10	5.0	391	YES	5530000	5.4
Trial_2	1	10	2.3	432	NO	5530000	NA
Trial_3	1	10	1.6	852	NO	5530000	NA
Trial_4	1	10	4.1	363	NO	5530000	NA
Trial_5	1	10	4.5	388	NO	5530000	NA
Trial_6	1	10	1.6	478	NO	5530000	NA
Trial_7	1	10	4.4	632	YES	5530000	5.4
Trial_8	1	10	3.6	569	YES	5530000	5.4
Trial_9	1	10	1.7	271	YES	5530000	5.5
Trial_10	1	10	2.2	998	YES	5530000	5.3
Trial_11	1	10	1.6	633	YES	5530000	5.4
Trial_12	1	10	3.9	769	YES	5530000	5.4
Trial_13	1	10	4.6	267	YES	5530000	5.4
Trial_14	1	10	4.7	417	YES	5530000	5.6
Trial_15	1	10	4.7	779	YES	5530000	5.7
Trial_16	1	10	4.7	590	YES	5530000	5.4
Trial_17	1	10	2.9	215	YES	5530000	5.4

Trial_18	1	10	1.0	240	YES	5530000	5.4
Trial_19	1	10	4.2	436	YES	5530000	5.4
Trial_20	1	10	3.4	270	YES	5530000	5.4

Detailed Result Table for ETSI2

The below table provides detailed information for per trials run for ETSI2RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	15	13.0	244	YES	5530000	5.5
Trial_2	1	15	8.9	1530	YES	5530000	5.4
Trial_3	1	15	10.5	938	YES	5530000	5.7
Trial_4	1	15	5.3	845	YES	5530000	5.4
Trial_5	1	15	5.7	1442	YES	5530000	5.3
Trial_6	1	15	9.9	698	YES	5530000	5.4
Trial_7	1	15	10.3	751	YES	5530000	5.4
Trial_8	1	15	1.2	1429	YES	5530000	5.4
Trial_9	1	15	12.4	1465	YES	5530000	5.5
Trial_10	1	15	10.3	274	YES	5530000	5.5
Trial_11	1	15	7.2	1473	YES	5530000	5.6
Trial_12	1	15	13.1	1133	YES	5530000	5.4
Trial_13	1	15	3.8	466	YES	5530000	5.7
Trial_14	1	15	8.7	305	YES	5530000	5.7
Trial_15	1	15	14.3	1308	YES	5530000	5.6
Trial_16	1	15	10.6	219	YES	5530000	5.8
Trial_17	1	15	2.6	842	YES	5530000	5.6
Trial_18	1	15	14.4	510	YES	5530000	5.8
Trial_19	1	15	14.4	267	NO	5530000	NA
Trial_20	1	15	2.3	1555	NO	5530000	NA

Detailed Result Table for ETSI3

The below table provides detailed information for per trials run for ETSI3RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	25	0.6	2529	NO	5530000	NA
Trial_2	1	25	3.7	2388	NO	5530000	NA
Trial_3	1	25	8.1	2464	NO	5530000	NA
Trial_4	1	25	8.5	2427	YES	5530000	5.4
Trial_5	1	25	11.5	3578	YES	5530000	5.3
Trial_6	1	25	7.6	3884	YES	5530000	5.4
Trial_7	1	25	14.4	3572	YES	5530000	5.3
Trial_8	1	25	14.3	2681	YES	5530000	5.4
Trial_9	1	25	5.6	3662	YES	5530000	5.3
Trial_10	1	25	13.7	3651	YES	5530000	5.4
Trial_11	1	25	10.0	3034	YES	5530000	5.4
Trial_12	1	25	7.2	2989	YES	5530000	5.4
Trial_13	1	25	5.5	2598	YES	5530000	5.4
Trial_14	1	25	6.0	3285	YES	5530000	5.3
Trial_15	1	25	10.0	2333	YES	5530000	5.4

Trial_16	1	25	10.9	2539	YES	5530000	5.4
Trial_17	1	25	14.9	3805	YES	5530000	5.4
Trial_18	1	25	0.7	3769	YES	5530000	5.4
Trial_19	1	25	14.3	3579	YES	5530000	5.6
Trial_20	1	25	11.4	2546	YES	5530000	5.6

Detailed Result Table for ETSI4

The below table provides detailed information for per trials run for ETSI4RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	20	21	2575	YES	5530000	5.3
Trial_2	1	20	23	3149	YES	5530000	5.4
Trial_3	1	20	24	3184	YES	5530000	5.4
Trial_4	1	20	27	2246	YES	5530000	5.4
Trial_5	1	20	23	3038	YES	5530000	5.4
Trial_6	1	20	27	2020	YES	5530000	5.4
Trial_7	1	20	28	3413	YES	5530000	6.1
Trial_8	1	20	29	2439	YES	5530000	5.8
Trial_9	1	20	25	3471	YES	5530000	5.4
Trial_10	1	20	21	2913	YES	5530000	5.3
Trial_11	1	20	23	3575	YES	5530000	5.4
Trial_12	1	20	22	2688	YES	5530000	5.4
Trial_13	1	20	25	3160	YES	5530000	5.3
Trial_14	1	20	28	3021	YES	5530000	5.4
Trial_15	1	20	30	2385	NO	5530000	NA
Trial_16	1	20	24	3766	NO	5530000	NA
Trial_17	1	20	29	2180	NO	5530000	NA
Trial_18	1	20	22	3481	NO	5530000	NA
Trial_19	1	20	24	2723	NO	5530000	NA
Trial_20	1	20	23	2531	YES	5530000	5.4

Detailed Result Table for ETSI5

The below table provides detailed information for per trials run for ETSI5RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF_1(Hz)	PRF_2(Hz)	PRF_3(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	2	20	0.5	345	372	0	YES	5530000	5.4
Trial_2	3	30	1.8	310	334	354	YES	5530000	5.5
Trial_3	3	30	0.9	343	369	391	YES	5530000	5.5
Trial_4	2	20	1.9	305	351	0	YES	5530000	5.4
Trial_5	2	20	0.6	371	391	0	YES	5530000	5.5
Trial_6	2	20	1.3	338	376	0	YES	5530000	5.5
Trial_7	2	20	1.5	354	395	0	YES	5530000	5.9
Trial_8	3	30	0.8	335	356	379	YES	5530000	5.5
Trial_9	2	20	0.9	334	374	0	YES	5530000	5.4
Trial_10	2	20	1.1	316	338	0	YES	5530000	5.5
Trial_11	2	20	2.0	349	383	0	YES	5530000	5.5
Trial_12	2	20	1.9	309	340	0	YES	5530000	5.5
Trial_13	3	30	0.9	306	333	353	YES	5530000	5.7

Trial_14	3	30	1.4	340	365	389	YES	5530000	5.7
Trial_15	3	30	1.6	307	327	350	YES	5530000	6.0
Trial_16	3	30	0.8	353	377	399	YES	5530000	5.8
Trial_17	3	30	1.0	311	334	359	YES	5530000	5.5
Trial_18	3	30	0.8	339	360	383	YES	5530000	5.4
Trial_19	3	30	0.8	345	373	393	YES	5530000	5.4
Trial_20	2	20	0.6	349	377	0	YES	5530000	5.5

Detailed Result Table for ETSI6

The below table provides detailed information for per trials run for ETSI6RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF_1(Hz)	PRF_2(Hz)	PRF_3(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	2	30	2.0	595	992	0	YES	5530000	5.5
Trial_2	2	30	1.3	549	869	0	YES	5530000	5.4
Trial_3	2	30	2.0	986	1071	0	YES	5530000	5.9
Trial_4	3	45	1.8	569	853	936	YES	5530000	5.5
Trial_5	2	30	0.5	896	1057	0	YES	5530000	5.4
Trial_6	3	45	1.8	564	714	843	YES	5530000	5.5
Trial_7	2	30	1.7	890	1178	0	YES	5530000	5.4
Trial_8	2	30	0.8	706	993	0	YES	5530000	5.5
Trial_9	3	45	2.0	482	742	822	YES	5530000	5.9
Trial_10	3	45	0.8	799	1067	1150	YES	5530000	5.8
Trial_11	3	45	1.8	762	935	1073	NO	5530000	NA
Trial_12	3	45	0.7	586	782	874	NO	5530000	NA
Trial_13	2	30	1.8	1103	1199	0	NO	5530000	NA
Trial_14	3	45	1.0	753	1043	1135	NO	5530000	NA
Trial_15	2	30	1.2	729	921	0	NO	5530000	NA
Trial_16	2	30	0.9	809	1042	0	YES	5530000	5.5
Trial_17	2	30	1.5	894	1103	0	YES	5530000	5.4
Trial_18	3	45	1.8	603	843	938	YES	5530000	5.5
Trial_19	3	45	1.0	729	809	969	YES	5530000	5.4
Trial_20	3	45	1.3	624	784	893	YES	5530000	5.5

Test basic Information

Information	Parameters	Values
	LANforge ip	192.168.200.191
	LANforge port	8080
	Radar Types	['ETSI0', 'ETSI1', 'ETSI2', 'ETSI3', 'ETSI4', 'ETSI5', 'ETSI6']
	Radar Hardware	ct712
	Freq Channel Number	100
	Bandwidth	80 (MHz)
	Tx Power of radar in dbm	-38.61
	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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