

## ECE 361 Project Part 2

Group #13

Name P. Mohana Shankar

Name2

Name 3

Summary [no more than 10 lines]

Report due, Week #9, Wednesday 5:00 PM as a single .pdf document e-mailed to shankapm@drexel.edu

**Group # 13**

Target Absent							Target Present		
0.418	2.346	3.695	3.865	0.215	0.015	11.364	4.658	9.423	3.681
5.5	NOT NEEDED								
0.2									
2.0									
1.1									
3.1									
4.9									
6.9									
3.725	0.871	2.706	5.97	6.339	0.846	7.552	11.742	14.372	2.397
4.162	2.836	0.834	1.025	9.015	1.264	4.351	11.609	7.808	4.086

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### Analysis of data supplied (Project # 13)

#### Hypothesis testing-Target Absent (70)

gamma hypothesis not rejected,  $h = 0$  with  $\chi^2_{\text{stat}} = 3.42$ , Deg. freedom = 6  
gamma parameters:  $a = 1.2205$ ,  $b = 2.6702$

#### Hypothesis testing-Target Present (30)

gamma hypothesis not rejected,  $h = 0$  with  $\chi^2_{\text{stat}} = 1.8$ , Deg. freedom = 5  
gamma parameters:  $a = 4.4831$ ,  $b = 1.6965$

#### summary of all $\chi^2$ tests

	h	$\chi^2_{\text{stat}}$	Deg. Freedom	h	$\chi^2_{\text{stat}}$	Deg. Freedom
Rayleigh	1	18.36	3	0	2.86	6
Nakagami	0	3.99	6	0	2.16	5
Gamma	0	3.42	6	0	1.8	5
Rician	1	17.85	2	0	2.86	5

Target Absent ↑

Target Present ↑

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