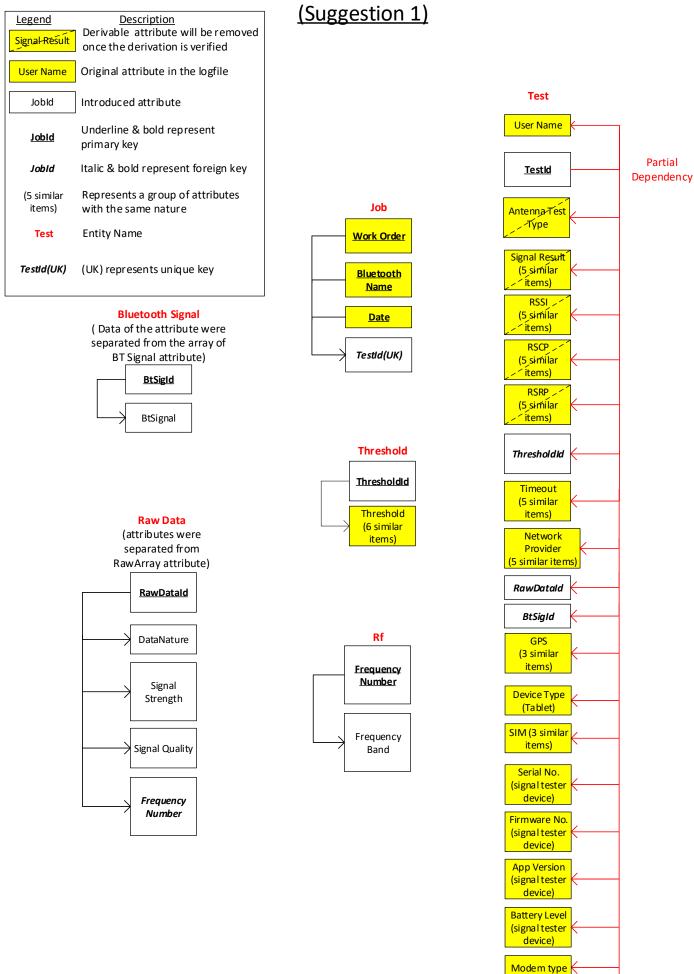
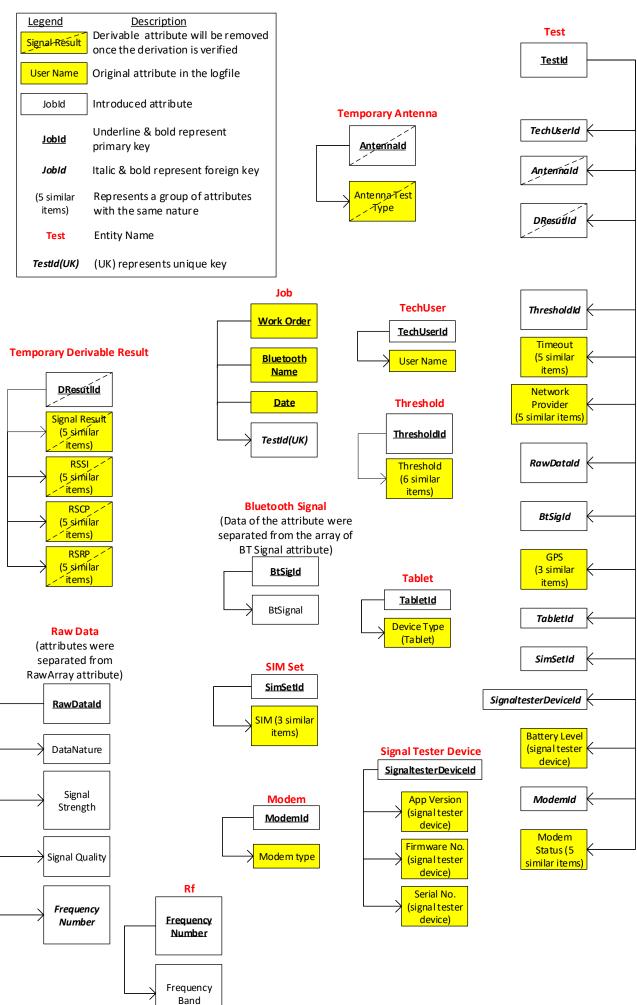


## Figure 2a: 3<sup>rd</sup> Normal Form

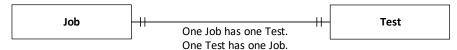


Modem Status (5 similar items)

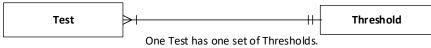
# Figure 2b: 3<sup>rd</sup> Normal Form (Suggestion 2)



#### Figure 3a: Entity Relationship (Suggestion 1)

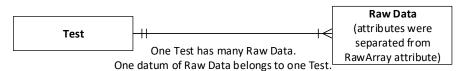


(Note: Job Table is used for simplify the composite primary key in the logfile showing in 1st normal form in Figure 1).

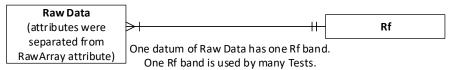


One set of Thresholds is used for many Tests.

Note: Threshold is a set of constant values used for determining the test result.



Note: Raw Data was a composite attribute in the datafiles and is separated into various attributes in the Raw Data Table used for determining the test result.

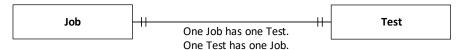


Note: Rf band is not given in the logfile but in Vector's excel file that explained the logfile.

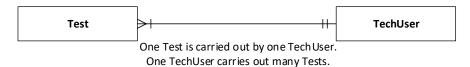


 $Note: Blue thooth \ Signal\ was\ a\ composite\ attribute\ in\ the\ data files\ and\ is\ separated\ into\ multiple\ data\ in\ the\ Blue tooth\ Signal\ Table.$ 

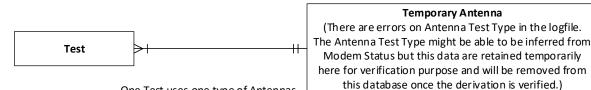
#### Figure 3b: Entity Relationship (Suggestion 2)



(Note: Job Table is used for simplify the composite primary key in the logfile showing in 1st normal form in Figure 1).

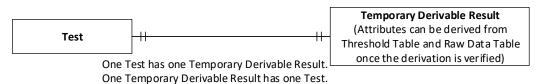


Note: TachUser Table is used for merging with existing human resource system and avoiding anomalies in the further system development.

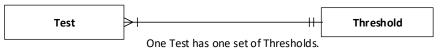


One Test uses one type of Antennas. L One type of Antennas is used in many Tests.

Note: Antenna Table is used for merging with existing inventory system and avoiding anomalies in the further system development.

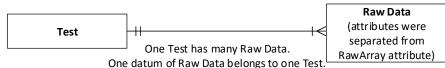


Note: Temporary Derivable Result will be removed once the derivation is verified, so it is temporarily separated from the test.

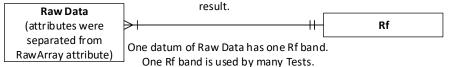


One set of Thresholds is used for many Tests.

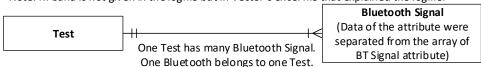
Note: Threshold is a set of constant values used for determining the test result.



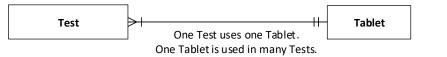
Note: Raw Data was a composite attribute in the datafiles and is separated into various attributes in the Raw Data Table used for determining the test



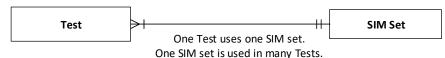
Note: Rf band is not given in the logfile but in Vector's excel file that explained the logfile.



Note: Bluethooth Signal was a composite attribute in the datafiles and is separated into multiple data in the Bluetooth Signal Table.



Note: Tablet Table is used for merging with existing inventory system and avoiding anomalies in the further system development.

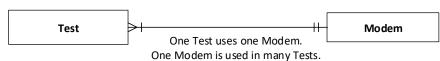


Note: SIM Set Table is used for merging with existing inventory system and avoiding anomalies in the further system development.



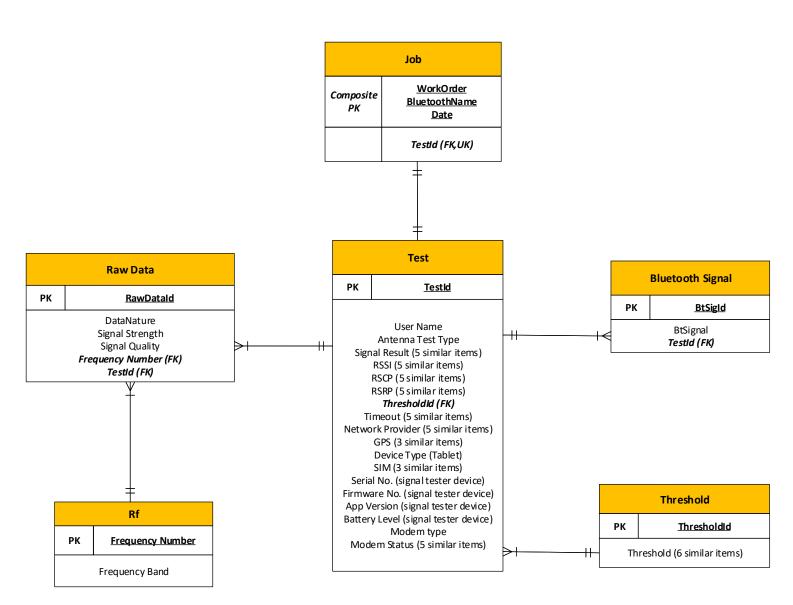
One Signal Tester Device is used in many Tests.

Note: Signal Tester Device Table is used for merging with existing inventory system and avoiding anomalies in the further system development.



Note: Modem Table is used for merging with existing inventory system and avoiding anomalies in the further system development.

Figure 4a: Entity Relationship Diagram (Suggestion 1)



### Figure 4b: Entity Relationship Diagram (Suggestion 2)

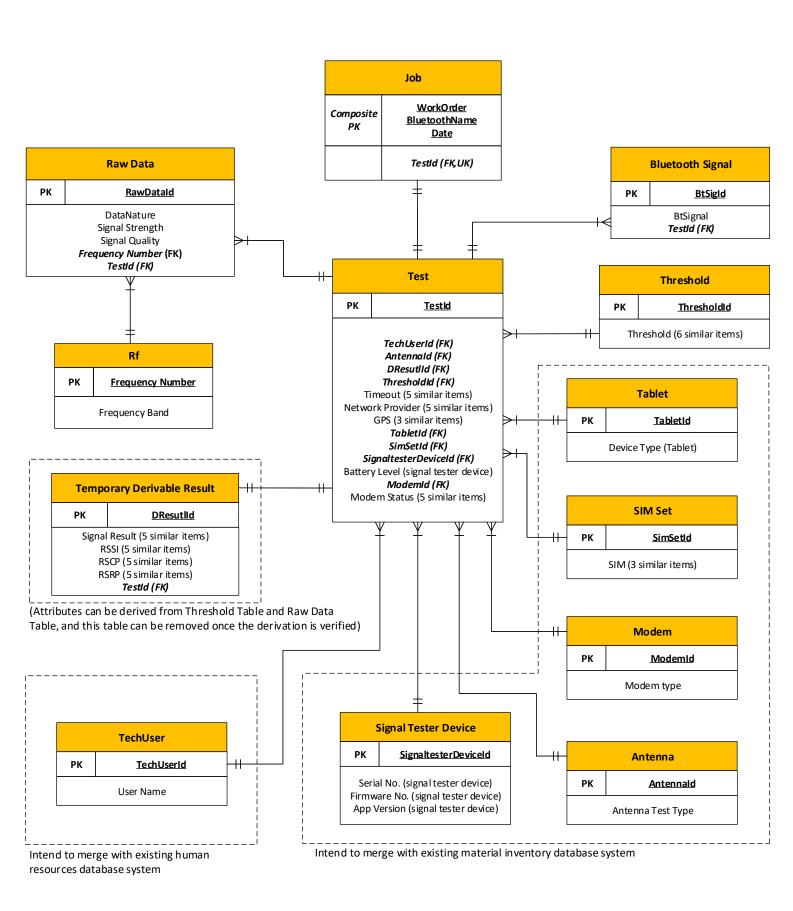


Figure 4b: Entity Relationship Diagram (Suggestion 2)

