Table of Contents

**1 SCOPE......................................................................5**

**2 ACCEPTANCE KPIS............................................................5**

2.1 Drive Test KPIs (Cluster Level)..........................................5

2.2 OSS KPIs (Cluster Level).................................................6

**3 Drive Test Criteria........................................................6**

**4 Definitions of KPI Formula................................................7**

**5 Drive Test Definition.....................................................8**

5.1 Drive Test device......................................................8

5.2 Cluster Site Lis.......................................................8

5.3 Cluster Polygon figure + DT Route Figure...............................8

**6 Drive Test Result....................................................6**

6.1 Scenario 1: Connected Mode Locked L700................................13

6.1.1 DL PCI Plot......................................................13

6.1.2 RAT Technology Plot..............................................14

6.1.3 DL EARFCN..........................................................14

6.1.4 DL RSRP Statistics.................................................15

6.1.5 DL SINR Statistics.................................................18

6.1.6 RFP Commitment.....................................................20

6.1.7 Intra Frequency Handover Success Rate Analysis.....................20

6.1.8 Downlink Long Call Results (FTP Test)..............................21

6.1.9 Uplink Long Call Results (FTP Test).............................................24

6.1.10 Short Call Test.............................................27

6.1.11 Overlapped...................................................28

6.2 Scenario 2: Connected Mode Locked L1800........................................29

6.2.1 DL PCI Plot.............................................29

6.2.2 RAT Technology Plot...............................................30

6.2.3 DL EARFCN...........................................................30

6.2.4 DL RSRP Statistics..................................................31

6.2.5 DL SINR Statistics....................................................34

6.2.6 RFP Commitment........................................................36

6.2.7 Intra Frequency Handover Success Rate Analysis.........................36

6.2.8 Downlink Long Call Results (FTP Test)................................37

6.2.9 Uplink Long Call Results (FTP Test)................................40

6.2.10 Short Call Test.....................................................43

6.2.11 Overlapped.....................................................43

6.3 Scenario 3: Connected Mode Free Camping.................................45

6.3.1 DL PCI Plot..........................................................45

6.3.2 RAT Technology Plot.....................................................45

6.3.3 DL EARFCN................................................................46

6.3.4 DL RSRP Statistics..........................................................46

6.3.5 DL SINR Statistics..........................................................48

6.3.7 YouTube Video Streaming Results.............................................50

**7 OSS KPIs on Cluster Level Results...............................................51**

7.1 Plot of DL MCS Allocated Average................................................51

7.2 Plot of UL MCS Allocated Average................................................51

7.3 Plot of CQI Distribution........................................................51

7.4 Plot of RACH Success Rate......................................................52

7.5 Plot of RRC Connection Setup Success Rate.......................................52

7.6 Plot of CSFB Setup Success Rate.................................................52

7.7 Plot of ERAB Drop Rate..........................................................53

7.8 Plot of LTE Intra-frequency HO Success Rate......................................53

7.9 Plot of LTE Inter-frequency HO Success Rate.......................................53

7.10 Plot of Average Downlink PDCP User Throughput @ 10 MHz............................54

7.11 Plot of Average Uplink PDCP User Throughput @ 10 MHz...............................54

7.12 Plot of Average Downlink PDCP User Throughput @ 5 MHz...............................54

7.13 Plot of Average Uplink PDCP User Throughput @ 5 MHz...............................55

7.14 Plot of Downlink BLER...............................................55

7.15 Plot of Uplink BLER...................................................55

7.16 Plot of ENB Availbility..................................................56

**8 Plot of Traffic..........................................................56**

**9 Optimization Actions Taken................................................57**

9.1 Physical and Power Actions................................................57

9.2 Paramater Tuning..........................................................59

**10 Performance Summary.......................................................60**

10.1 Drive Test KPIs (Cluster Level).............................................60

10.2 OSS KPIs (Cluster Level)......................................................60

10.2.1 OSS KPIs (Band 700)......................................................61

10.2.2 OSS KPIs (Band 1800)......................................................61