

Project 25 Compliance Assessment Program  
 Summary Test Report  
 EF Johnson Viking VM600 and VM400 700/800 MHz Mobile Subscriber Unit  
 STR-EFJ-15100104  
 October 1, 2015

Test Item Description	
<b>Manufacturer</b>	EF Johnson Technologies
<b>Manufacturer Contact</b>	John Oblak (507) 382-6327
<b>Product Name</b>	Viking VM600 and VM400 700/800 MHz Mobile Subscriber Unit
<b>Installed Options</b>	SEM Installed
<b>Vocoder Identification</b>	Enhanced Full Rate

Test Description
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	June 4, 2014 to June 17, 2014
<b>Date of Issue</b>	June 24, 2014

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	June 16, 2014 to June 18, 2014
<b>Date of Issue</b>	June 24, 2014

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081017 (Harris)
<b>Date(s) of Test</b>	February 18, 2015
<b>Date of Issue</b>	February 18, 2015

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	March 11, 2015 to March 12, 2015
<b>Date of Issue</b>	March 27, 2015

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Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	March 27, 2015
<b>Date of Issue</b>	March 27, 2015

Informative References	
Date	Title
Mar 2010	P25-CAB-CAI_TEST_REQ – March 2010

Other Devices Tested with Viking VM600 and VM400 Mobile Subscriber Unit		
Manufacturer	Product Name, Definition, and Unique ID	Installed Options
Harris	P25 Trunked Infrastructure	RFSS: MASTR V Firmware R7G13 FNE: VIDA Premiere SR10A
EF Johnson	ATLAS Trunked Infrastructure	TSNI 1.2.1-8
Motorola Solutions	ASTRO Trunked Infrastructure	ASTRO 25 7.15

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-14062401	
Receiver Tests			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	≥ 50 μs	P3
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 80 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 75 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P
2.1.17	Late Entry Unsquench Delay		
	No Talk Group or Encryption	≤ 125 ms	P
	Talk Group Only	≤ 370 ms	P
	Encryption Only	≤ 370 ms	P
	Both Talk Group and Encryption	≤ 460 ms	P
2.1.18	Receiver Throughput Delay	≤ 125 ms	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-14062401	
Transmitter Tests (800 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	$\geq 67$ dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	$\leq 50$ ms	P
	Encoder Attack Time	$\leq 100$ ms	P
2.2.14	Transmitter Throughput Delay	$\leq 125$ ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f  \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f  \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f  \leq 12.5$ kHz	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-14062401	
Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio		
	Offset From Center Frequency (kHz)		
	9.375	≥ 40 dB	P
	15.625, 21.875, 37.5	≥ 60 dB	P
	62.5, 87.5, 150, 250, 350	≥ 65 dB	P
	>400 kHz to 12 MHz	≥ 75 dB	P
2.2.12	12 MHz to paired RX Band	≥ 75 dB	P
	In the paired RX Band	≥ 100 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
2.2.14	Encoder Attack Time	≤ 100 ms	P
	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	2544 Hz < f <sub>dev</sub> ≤ 3111 Hz	P
2.2.16	Low Level Signal Deviation	848 Hz < f <sub>dev</sub> ≤ 1037 Hz	P
	Modulation Fidelity	≤ 5% (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval t <sub>1</sub> = 20 ms	Δf  ≤ 12.5 kHz	P
	Time Interval t <sub>2</sub> = 50 ms	Δf  ≤ 6.25 kHz	P
	Time Interval t <sub>3</sub> = 10 ms	Δf  ≤ 12.5 kHz	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance</b>		<b>DTR-P25CAP081010-14062401 DTR-P25CAP081010-14062402</b>	
<b>Receiver Tests</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	≥ 50 μs	P3
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 80 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 75 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P

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<b>Transmitter Tests (800 MHz)</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	$\geq 67$ dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	$\leq 50$ ms	P
	Encoder Attack Time	$\leq 100$ ms	P
2.2.14	Transmitter Throughput Delay	$\leq 125$ ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f  \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f  \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f  \leq 12.5$ kHz	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP081010-14062401 DTR-P25CAP081010-14062402	
Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio		
	Offset From Center Frequency (kHz)		
	9.375	$\geq 40$ dB	P
	15.625, 21.875, 37.5	$\geq 60$ dB	P
	62.5, 87.5, 150, 250, 350	$\geq 65$ dB	P
	>400 kHz to 12 MHz	$\geq 75$ dB	P
2.2.12	12 MHz to Paired RX Band	$\geq 75$ dB	P
	In the Paired RX Band	$\geq 100$ dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	$\leq 50$ ms	P
2.2.14	Encoder Attack Time	$\leq 100$ ms	P
	Transmitter Throughput Delay	$\leq 125$ ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
2.2.16	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f  \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f  \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f  \leq 12.5$ kHz	P



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<b>Trunked Subscriber Unit Tests</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.3.1	Trunking Control Channel Slot Times (45 ms slot) N7 Encode Attack Time RF Power Attack Time RF Power Turn Off Time	2.00 ms ≤ t ≤ 11.65 ms 0 ms ≤ t ≤ 11.65 ms ≤ 1.57 ms	P P P
2.3.2	Trunking Request Time	≤ 167.5 ms	P
2.3.3	Trunking Voice Access Time	500 ms (Manufacturer Specified)	P
2.3.5	Transmitter Time to Key on a Traffic Channel Short Channel Form	≤ 150.0 ms	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability</b>		DTR- P25CAP081017- 1150218E	DTR- P25CAP081010- 15032702	DTP- P25CAP081010- 15032701
<b>EF Johnson Viking VM600 and VM400 Mobile</b>		Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
<b>Test Case</b>	<b>Description</b>			
<b>2.2.1</b>	<b>Full Registration</b>			
<b>2.2.1.4.1</b>	Test Case 1 - Valid Registration			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.1.4.2</b>	Test Case 2 – Denied or Refused			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.1.4.3</b>	Test Case 3 - Unverified Registration			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.2</b>	<b>Group Voice Call</b>			
<b>2.2.2.4.1</b>	Test Case 1 – Group Call Granted			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.2.4.2</b>	Test Case 2 – Group Call Denied			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.2.4.3</b>	Test Case 3 – Group Call Request			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6

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<b>EF Johnson Viking VM600 and VM400 Mobile</b>		Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
<b>Test Case</b>	<b>Description</b>			
<b>2.2.3</b>	<b>Unit-To-Unit Voice Call</b>			
<b>2.2.3.4.1</b>	Test Case 1 – Unit-To-Unit Call With Target Availability Check			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.3.4.2</b>	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied By Target			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.3.4.3</b>	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.3.4.4</b>	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target availability check			
	Home Operation	N/A 1	N/A 1	N/A 1
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.3.4.5</b>	Test Case 5 – Unit-To-Unit Call Without Target Availability Check			
	Home Operation	N3	N2	N2
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6

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<b>EF Johnson Viking VM600 and VM400 Mobile</b>		Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
<b>Test Case</b>	<b>Description</b>			
<b>2.2.3</b>	<b>Unit-To-Unit Voice Call</b>			
<b>2.2.3.4.6</b>	Test Case 6 – Unit-To-Unit Call Queued Without Target Availability Check			
	Home Operation	N3	N2	N2
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.3.4.7</b>	Test Case 7 – Unit-To-Unit Call Denied			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6

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<b>EF Johnson Viking VM600 and VM400 Mobile</b>		Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
<b>Test Case</b>	<b>Description</b>			
<b>2.2.4</b>	<b>Broadcast Voice Call</b>			
<b>2.2.4.4.1</b>	Test Case 1 – Broadcast Voice Call			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.5</b>	<b>Affiliation</b>			
<b>2.2.5.4.1</b>	<i>Test Case 1 - Radio Permitted To Affiliate With New Group</i>			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.5.4.2</b>	Test Case 2 - Radio Denied Affiliation To New Group			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.6</b>	<b>Announcement Group Call</b>			
<b>2.2.6.4.1</b>	Test Case 1 - Collection Of Talk Groups Receive Call			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.7</b>	<b>Emergency Alarm</b>			
<b>2.2.7.4.1</b>	Test Case 1 - Emergency Alarm			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6

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<b>Test Case</b>	<b>Description</b>			
<b>2.2.8</b>	<b>Emergency Group Call</b>			
<b>2.2.8.4.1</b>	Test Case 1 - Emergency Call			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.10</b>	<b>Encryption</b>			
<b>2.2.10.4.1</b>	Test Case 1 - Call Privacy For Encrypted Call			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6
<b>2.2.11</b>	<b>Intra-Location Registration Area Roaming</b>			
<b>2.2.11.4.1</b>	Test Case 1 – Idle Radio			
	Home Operation	P	P	P
	Inter-System Operation	N5	N4	N6
	Inter-WACN Operation	N5	N4	N6

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Model Class Definition		Applied to P25-CAB-CAI_Test_Req Mar 2010, 2.1.3.2
Model Class Name	Product Name, Definition, and Unique ID	Installed Options
Viking VM600 and VM400 Series Mobile	Viking VM600 and VM400 Mobile	<b>Firmware:</b> V 8.10.29
		<b>Firmware:</b> V 8.12.7

Test Case Result Definitions	
No Test Performed	---
Test Does Not Apply to the Test Object	N/A
Test Object Meets Requirements	P (Pass)
Test Object Does Not Meet Requirements	F (Fail)
Test Object is Not Conclusive	I (Inconclusive)

Comments
N/A 1: Test case 2.2.3.4.4 is not applicable for these infrastructures; see results of test 2.2.3.4.3.
N2: Infrastructure and EF Johnson Viking VM600 and VM400 do not support this mode of operation.
N3: EF Johnson VM600 and VM400 subscriber does not support this mode of operation.
N4: EF Johnson trunking system release Atlas TSNI 1.3.1-8, and EF Johnson Viking VM600 and VM400 subscriber do not support these features.
N5: Harris infrastructure release SR10A and EF Johnson Viking VM600 and VM400 subscriber do not support these features.
N6: Motorola infrastructure release 25 7.15 and EF Johnson Viking VM600 and VM400 subscriber do not support these features.
N7: VM600 and VM400 meets timing requirements in the 45 ms slot timing mode.
P1: EF Johnson Viking VM600 and VM400 700/800 MHz subscriber passes Reference Sensitivity ( $\leq -116$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P2: EF Johnson Viking VM600 and VM400 700/800 MHz subscriber passes Faded Reference Sensitivity ( $\leq -108$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P3: EF Johnson Viking VM600 700/800 MHz subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) ( $\geq 50$ $\mu$ s) and Simulcast modulations ( $\geq 80$ $\mu$ s).
P4: EF Johnson Viking VM600 and VM400 700/800 MHz subscriber passes Adjacent Channel Rejection ( $\geq 60$ dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.

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**OMB NO:** 1640-0015

**EXPIRATION DATE:** 07/31/2015

**Burden Statement**

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DHS FORM 10044 – June 2009