

## Project 25 Compliance Assessment Program

Summary Test Report  
 XTS 5000 Portable Subscriber  
 STR-MOT-XTS5000-02122013  
 February 12, 2013

| Device Under Test Description |   |
|-------------------------------|---|
| <b>Manufacturer</b>           | Motorola Solutions                          |
| <b>Manufacturer Contact</b>   | Debra Brown 847-576-3318                    |
| <b>Product Name</b>           | XTS 5000 Portable Subscriber                |
| <b>Frequency Bands</b>        | VHF, UHF, 700/800MHz                        |
| <b>Installed Options</b>      | Trunking, Encryption                        |
| <b>Installed Vocoder</b>      | Baseline Full Rate with System Improvements |

| 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. (Home Configuration tests are the same as the September 2009 CAB. Inter-System and Inter-WACN roaming configurations are not supported on the Motorola infrastructure.) |

| Informative References |                      |
|------------------------|----------------------|
| <b>Date</b>            | <b>Title</b>         |
| March 2010             | P25-CAB-CAI_TEST_REQ |

| Other Devices Tested with Motorola Solutions XTS 5000 Subscriber |                                  |                                  |
|--|----------------------------------|----------------------------------|
| Manufacturer   | Product Name and Definition      | Installed Options                |
| Motorola Solutions   | ASTRO®25                         | System Release 7.7               |
|  |                                  | System Release 7.8               |
|  |                                  | System Release 7.9               |
|  |                                  | System Release 7.11              |
|  |                                  | System Release 7.13              |
| Harris   | Harris Master V P25 Station      | System Release PR9B              |
| Tait/EADS  | P25 Trunked Radio System         | TaitNet P25/EADS COR P25 Network |
| Cassidian  | Cassidian COR P25 Infrastructure | TB5000i Base Station Model Class |
| PowerTrunk   | PowerTrunk 25 FNE B800014        | System Release Ver. 9.4.52       |
| EF Johnson   | Trunking                         | System Release 3.1-RC1           |

### Testing Laboratory Information

| Laboratory Information         |  |
|--------------------------------|--|
| <b>P25 CAP Laboratory Code</b> | Motorola Performance CAI Subscriber FL P25CAP081014                            |
| <b>Date(s) of Test</b>         | February 3, 4, 6 14, 2011; June 4-29, 2009                                     |
| <b>Date of Issue</b>           | February 16, 2011 June 23-July 8, 2009   |
| <b>P25 CAP Laboratory Code</b> | TIMCO Engineering Inc.(Infrastructure used Motorola Solutions)<br>P25CAP081016 |
| <b>Date(s) of Test</b>         | March 3, 2011  |
| <b>Date of Issue</b>           | March 8, 2011  |
| <b>P25 CAP Laboratory Code</b> | Harris Corp P25CAP081017   |
| <b>Date(s) of Test</b>         | January 20, 2011   |
| <b>Date of Issue</b>           | January 24, 2011   |
| <b>P25 CAP Laboratory Code</b> | Teltest Laboratories (Infrastructure used TAIT/EADS) P25CAP081015              |

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|                                |   |
|--------------------------------|---|
| <b>Date(s) of Test</b>         | October 28, 2010  |
| <b>Date of Issue</b>           | November 15, 2010   |
| <b>P25 CAP Laboratory Code</b> | TIMCO Engineering Inc.(Infrastructure used PowerTrunk) P25CAP081016 |
| <b>Date(s) of Test</b>         | June 14, 2010   |
| <b>Date of Issue</b>           | June 28, 2010   |
| <b>P25 CAP Laboratory Code</b> | EF Johnson Technologies P25CAP081010                                |
| <b>Date(s) of Test</b>         | October 14, 2009  |
| <b>Date of Issue</b>           | November 16, 2009   |

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### Performance Test Cases and Results

| <b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b> |                                      | DTR-P25CAP081014-P25-0002 (136-174MHz)<br>DTR-P25CAP081014-P25-0004 (UHF-R1 380-470MHz)<br>DTR-P25CAP081014-P25-0003 (UHF-R2 450-520MHz)<br>DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|--|--------------------------------------|--|---------|
| <b>PERFORMANCE – Conventional Receiver Tests XTS5000 (VHF 136-174, UHF-R1 380-470, UHF-R2 450-520, 700, 800)</b>                             |                                      |  |         |
| Test Case  | Description                          | Requirement  | Results |
| 2.1.4  | Reference Sensitivity                | $\leq -116$ dBm  | P1      |
| 2.1.5  | Faded Reference Sensitivity          | $\leq -108$ dBm  | P2      |
| 2.1.6  | Signal Delay Spread Capability       | $\geq 50$ $\mu$ s  | P3      |
| 2.1.7  | Adjacent Channel Rejection           | $\geq 60$ dB   | P4      |
| 2.1.8  | Co-Channel Rejection                 | $\leq 9$ dB  | P       |
| 2.1.9  | Spurious Response Rejection          | $\geq 70$ dB   | P       |
| 2.1.10   | Intermodulation Rejection            | $\geq 70$ dB   | P       |
| 2.1.11   | Signal Displacement Bandwidth        | $\geq 1000$ Hz   | P       |
| 2.1.17   | Late Entry Unsquench Delay           |  |         |
|  | No Talk Group or Encryption          | $\leq 125$ ms  | P       |
|  | Talk Group Only                      | $\leq 370$ ms  | P       |
|  | Encryption Only                      | $\leq 370$ ms  | P       |
| 2.1.18   | Both (On Clear or Encrypted Channel) | $\leq 460$ ms  | P       |
| 2.1.18   | Receiver Throughput Delay            | $\leq 125$ ms  | P       |

| <b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b> |  | DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|--|--|--|---------|
| <b>PERFORMANCE – Conventional Transmitter Tests XTS5000 (800MHz)</b>   |  |  |         |
| Test Case  | Description                                      | Requirement                            | Results |
| 2.2.8  | Unwanted Emissions: Adjacent Channel Power Ratio | $\geq 67$ dB                           | P       |
| 2.2.12   | Transmitter 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                      | $2544 \leq f_{dev} \leq 3111$ Hz       | P       |
|  | Low Level Signal Deviation                       | $848 \leq f_{dev} \leq 1037$ Hz        | P       |
| 2.2.16   | Modulation Fidelity                              | $\leq 5\%$                             | P       |
| 2.2.18   | Transient Frequency Behavior                     |  |         |
|  | Time Interval $t_1 = 20.0$ ms                    | $\{\Delta f\} \leq 12.5$ kHz           | P       |
|  | Time Interval $t_2 = 50.0$ ms                    | $\{\Delta f\} \leq 6.25$ kHz           | P       |
|  | Time Interval $t_3 = 10.0$ ms                    | $\{\Delta f\} \leq 12.5$ kHz           | P       |

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| <b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b> |  | DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|--|--|--|---------|
| <b>PERFORMANCE – Conventional Transmitter Tests XTS5000 (700MHz)</b>   |  |  |         |
| Test Case  | Description                                      | Requirement                            | Results |
| <b>2.2.8</b>   | Unwanted Emissions: Adjacent Channel Power Ratio |  |         |
|  | Offset From Center Frequency (kHz)               | ACPR (dB)                              |         |
|  | 9.375  | 40                                     | P       |
|  | 15.625, 21.875, 37.5                             | 60                                     | P       |
|  | 62.5, 87.5, 150, 250, 350                        | 65                                     | P       |
|  | >400 kHz to 12 MHz                               | 75                                     | P       |
|  | 12 MHz to paired RX Band                         | 75                                     | P       |
|  | In the Paired RX Band                            | 100                                    | P       |
| <b>2.2.12</b>  | Transmitter Power Attack Time                    | ≤ 50 ms                                | P       |
|  | Encoder Attack Time                              | ≤ 100 ms                               | P       |
| <b>2.2.14</b>  | Transmitter Throughput Delay                     | ≤ 125 ms                               | P       |
| <b>2.2.15</b>  | Frequency Deviation for C4FM                     |  |         |
|  | High Level signal Deviation                      | 2544 ≤ f <sub>dev</sub> ≤ 3111 Hz      | P       |
|  | Low Level Signal Deviation                       | 848 ≤ f <sub>dev</sub> ≤ 1037 Hz       | P       |
| <b>2.2.16</b>  | Modulation Fidelity                              | ≤ 5%                                   | P       |
| <b>2.2.18</b>  | Transient Frequency Behavior                     |  |         |
|  | Time Interval t <sub>1</sub> = 20.0 ms           | {Δf} ≤ 12.5 kHz                        | P       |
|  | Time Interval t <sub>2</sub> = 50.0 ms           | {Δf} ≤ 6.25 kHz                        | P       |
|  | Time Interval t <sub>3</sub> = 10.0 ms           | {Δf} ≤ 12.5 kHz                        | P       |

| <b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b> |  | DTR-P25CAP081014-P25-0004 (UHF-R1 380-470MHz)<br>DTR-P25CAP081014-P25-0003 (UHF-R2 450-520MHz) |         |
|--|--|--|---------|
| <b>PERFORMANCE - Conventional Transmitter Tests XTS5000 (UHF-R1 380-470MHz; UHF-R2 450-520MHz)</b>   |  |  |         |
| Test Case  | Description                                      | Requirement  | Results |
| <b>2.2.8</b>   | Unwanted Emissions: Adjacent Channel Power Ratio | ≥ 67 dB  | P       |
| <b>2.2.12</b>  | Transmitter Power Attack Time                    | ≤ 50 ms  | P       |
|  | Encoder Attack Time                              | ≤ 100 ms   | P       |
| <b>2.2.14</b>  | Transmitter Throughput Delay                     | ≤ 125 ms   | P       |
| <b>2.2.15</b>  | Frequency Deviation for C4FM                     |  |         |
|  | High Level signal Deviation                      | 2544 ≤ f <sub>dev</sub> ≤ 3111 Hz  | P       |
|  | Low Level Signal Deviation                       | 848 ≤ f <sub>dev</sub> ≤ 1037 Hz   | P       |
| <b>2.2.16</b>  | Modulation Fidelity                              | ≤ 5%   | P       |
| <b>2.2.18</b>  | Transient Frequency Behavior                     |  |         |
|  | Time Interval t <sub>1</sub> = 10.0 ms           | {Δf} ≤ 12.5 kHz  | P       |
|  | Time Interval t <sub>2</sub> = 25.0 ms           | {Δf} ≤ 6.25 kHz  | P       |
|  | Time Interval t <sub>3</sub> = 10.0 ms           | {Δf} ≤ 12.5 kHz  | P       |

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| <b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b> |   | DTR-P25CAP081014-P25-0002 (136-174MHz) |                              |
|--|---|--|------------------------------|
| <b>PERFORMANCE – Conventional Transmitter Tests XTS5000 (VHF 136-174)</b>  |   |  |                              |
| Test Case  | Description   | Requirement                            | Results                      |
| 2.2.8  | Unwanted Emissions: Adjacent Channel Power Ratio            | $\geq 67$ dB                           | P                            |
| 2.2.12   | Transmitter Power Attack Time                               | $\leq 50$ ms                           | P                            |
|  |   | Encoder Attack Time                    | $\leq 100$ ms                |
| 2.2.14   | Transmitter Throughput Delay                                | $\leq 125$ ms                          | P                            |
| 2.2.15   | Frequency Deviation for C4FM<br>High Level signal Deviation | $2544 \leq fdev \leq 3111$ Hz          | P                            |
|  |   | Low Level Signal Deviation             | $848 \leq fdev \leq 1037$ Hz |
| 2.2.16   | Modulation Fidelity   | $\leq 5\%$                             | P                            |
| 2.2.18   | Transient Frequency Behavior                                |  |                              |
|  | Time Interval $t_1 = 5.0$ ms                                | $\{\Delta f\} \leq 12.5$ kHz           | P                            |
|  | Time Interval $t_2 = 20.0$ ms                               | $\{\Delta f\} \leq 6.25$ kHz           | P                            |
|  | Time Interval $t_3 = 5.0$ ms                                | $\{\Delta f\} \leq 12.5$ kHz           | P                            |

| <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> |                                | DTR-P25CAP081014-P25-0002 (136-174MHz)<br>DTR-P25CAP081014-P25-0004 (UHF-R1 380-470MHz)<br>DTR-P25CAP081014-P25-0003 (UHF-R2 450-520MHz)<br>DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|---|--------------------------------|--|---------|
| <b>PERFORMANCE – Trunked Receiver Tests XTS5000 (VHF 136-174, UHF-R1 380-470, UHF-R2 450-520, 700, 800)</b>                             |                                |  |         |
| Test Case   | Description                    | Requirement  | Results |
| 2.1.4   | Reference Sensitivity          | $\leq -116$ dBm  | P1      |
| 2.1.5   | Faded Reference Sensitivity    | $\leq -108$ dBm  | P2      |
| 2.1.6   | Signal Delay Spread Capability | $\geq 50$ $\mu$ s  | P3      |
| 2.1.7   | Adjacent Channel Rejection     | $\geq 60$ dB   | P4      |
| 2.1.8   | Co-Channel Rejection           | $\leq 9$ dB  | P       |
| 2.1.9   | Spurious Response Rejection    | $\geq 70$ dB   | P       |
| 2.1.10  | Intermodulation Rejection      | $\geq 70$ dB   | P       |
| 2.1.11  | Signal Displacement Bandwidth  | $\geq 1000$ Hz   | 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> |  | DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|---|--|--|---------|
| <b>PERFORMANCE – Trunked Transmitter Tests XTS5000 (800MHz)</b>   |  |  |         |
| Test Case   | Description                                      | Requirement                            | Results |
| 2.2.8   | Unwanted Emissions: Adjacent Channel Power Ratio | $\geq 67$ dB                           | P       |
| 2.2.12  | Transmitter 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                      | $2544 \leq fdev \leq 3111$ Hz          | P       |
|   | Low Level Signal Deviation                       | $848 \leq fdev \leq 1037$ Hz           | P       |
| 2.2.16  | Modulation Fidelity                              | $\leq 5\%$                             | P       |
| 2.2.18  | Transient Frequency Behavior                     |  |         |
|   | Time Interval $t_1 = 20.0$ ms                    | $\{\Delta f\} \leq 12.5$ kHz           | P       |
|   | Time Interval $t_2 = 50.0$ ms                    | $\{\Delta f\} \leq 6.25$ kHz           | P       |
|   | Time Interval $t_3 = 10.0$ ms                    | $\{\Delta f\} \leq 12.5$ kHz           | P       |

| <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> |  | DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|---|--|--|---------|
| <b>PERFORMANCE – Trunked Transmitter Tests XTS5000 (700MHz)</b>   |  |  |         |
| Test Case   | Description                                      | Requirement                            | Results |
| 2.2.8   | Unwanted Emissions: Adjacent Channel Power Ratio |  |         |
|   | Offset From Center Frequency (kHz)               | ACPR (dB)                              |         |
|   | 9.375  | 40                                     | P       |
|   | 15.625, 21.875, 37.5                             | 60                                     | P       |
|   | 62.5, 87.5, 150, 250, 350                        | 65                                     | P       |
|   | >400 kHz to 12 MHz                               | 75                                     | P       |
|   | 12 MHz to paired RX Band                         | 75                                     | P       |
|   | In the Paired RX Band                            | 100                                    | P       |
| 2.2.12  | Transmitter 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                      | $2544 \leq fdev \leq 3111$ Hz          | P       |
|   | Low Level Signal Deviation                       | $848 \leq fdev \leq 1037$ Hz           | P       |
| 2.2.16  | Modulation Fidelity                              | $\leq 5\%$                             | P       |
| 2.2.18  | Transient Frequency Behavior                     |  |         |
|   | Time Interval $t_1 = 20.0$ ms                    | $\{\Delta f\} \leq 12.5$ kHz           | P       |
|   | Time Interval $t_2 = 50.0$ ms                    | $\{\Delta f\} \leq 6.25$ kHz           | P       |
|   | Time Interval $t_3 = 10.0$ ms                    | $\{\Delta f\} \leq 12.5$ 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> |   | DTR-P25CAP081014-P25-0004 (UHF-R1 380-470MHz)<br>DTR-P25CAP081014-P25-0003 (UHF-R2 450-520MHz) |         |
|---|---|--|---------|
| <b>PERFORMANCE – Trunked Transmitter Tests XTS5000 (UHF-R1 380-470MHz; UHF-R2 450-520MHz)</b>   |   |  |         |
| Test Case   | Description   | Requirement  | Results |
| 2.2.8   | Unwanted Emissions: Adjacent Channel Power Ratio  | $\geq 67$ dB   | P       |
| 2.2.12  | Transmitter Power Attack Time<br>Encoder Attack Time  | $\leq 50$ ms   | P       |
|   |   | $\leq 100$ ms  | P       |
| 2.2.14  | Transmitter Throughput Delay  | $\leq 125$ ms  | P       |
| 2.2.15  | Frequency Deviation for C4FM<br>High Level signal Deviation<br>Low Level Signal Deviation                                       | $2544 \leq f_{dev} \leq 3111$ Hz   | P       |
|   |   | $848 \leq f_{dev} \leq 1037$ Hz  | P       |
| 2.2.16  | Modulation Fidelity   | $\leq 5\%$   | P       |
| 2.2.18  | Transient Frequency Behavior<br>Time Interval $t_1 = 10.0$ ms<br>Time Interval $t_2 = 25.0$ ms<br>Time Interval $t_3 = 10.0$ ms | $\{\Delta f\} \leq 12.5$ kHz   | P       |
|   |   | $\{\Delta f\} \leq 6.25$ kHz   | P       |
|   |   | $\{\Delta f\} \leq 12.5$ kHz   | P       |

| <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> |   | DTR-P25CAP081014-P25-0002 (136-174MHz) |         |
|---|---|--|---------|
| <b>PERFORMANCE – Trunked Transmitter Tests XTS5000 (VHF 136-174)</b>  |   |  |         |
| Test Case   | Description   | Requirement                            | Results |
| 2.2.8   | Unwanted Emissions: Adjacent Channel Power Ratio  | $\geq 67$ dB                           | P       |
| 2.2.12  | Transmitter Power Attack Time<br>Encoder Attack Time  | $\leq 50$ ms                           | P       |
|   |   | $\leq 100$ ms                          | P       |
| 2.2.14  | Transmitter Throughput Delay  | $\leq 125$ ms                          | P       |
| 2.2.15  | Frequency Deviation for C4FM<br>High Level signal Deviation<br>Low Level Signal Deviation                                     | $2544 \leq f_{dev} \leq 3111$ Hz       | P       |
|   |   | $848 \leq f_{dev} \leq 1037$ Hz        | P       |
| 2.2.16  | Modulation Fidelity   | $\leq 5\%$                             | P       |
| 2.2.18  | Transient Frequency Behavior<br>Time Interval $t_1 = 5.0$ ms<br>Time Interval $t_2 = 20.0$ ms<br>Time Interval $t_3 = 5.0$ ms | $\{\Delta f\} \leq 12.5$ kHz           | P       |
|   |   | $\{\Delta f\} \leq 6.25$ kHz           | P       |
|   |   | $\{\Delta f\} \leq 12.5$ 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> |  | DTR-P25CAP081014-P25-0001 (700/800MHz) |         |
|---|--|--|---------|
| <b>PERFORMANCE – Trunked Subscriber Tests XTS5000 (700/800MHz)</b>  |  |  |         |
| Test Case   | Description  | Requirement                            | Results |
| <b>2.3.1</b>  | Trunking Control Channel Slot Time<br>(45 ms slot) |  |         |
|   | Encode Attack Time                                 | 2.00ms ≤ t ≤ 11.65ms                   | P       |
|   | RF Power Attack Time                               | 0.00ms ≤ t ≤ 11.65ms                   | P       |
|   | RF Power Turn Off Time                             | ≤ 1.57 ms                              | P       |
| <b>2.3.2</b>  | Trunking Request Time                              | ≤ 167.5 ms                             | P       |
| <b>2.3.3</b>  | Trunking Voice Access Time                         | ≤ 680 ms                               | P5      |
| <b>2.3.5</b>  | Transmit Time to Key on Traffic Channel            | ≤ 150.0 ms                             | P       |

| <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> |  | DTR-P25CAP081014-P25-0004 (UHF-R1 380-470MHz)<br>DTR-P25CAP081014-P25-0003 (UHF-R2 450-520MHz) |         |
|---|--|--|---------|
| <b>PERFORMANCE – Trunked Subscriber Tests XTS5000 (UHF-R1 380-470MHz; UHF-R2 450-520MHz)</b>  |  |  |         |
| Test Case   | Description  | Requirement  | Results |
| <b>2.3.1</b>  | Trunking Control Channel Slot Time<br>(45 ms slot) |  |         |
|   | Encode Attack Time                                 | 2.00ms ≤ t ≤ 11.65ms   | P       |
|   | RF Power Attack Time                               | 0.00ms ≤ t ≤ 11.65ms   | P       |
|   | RF Power Turn Off Time                             | ≤ 1.57 ms  | P       |
| <b>2.3.2</b>  | Trunking Request Time                              | ≤ 167.5 ms   | P       |
| <b>2.3.3</b>  | Trunking Voice Access Time                         | ≤ 490 ms   | P5      |
| <b>2.3.5</b>  | Transmit Time to Key on Traffic Channel            | ≤ 150.0 ms   | P       |

| <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> |  | DTR-P25CAP081014-P25-0002 (136-174MHz) |         |
|---|--|--|---------|
| <b>PERFORMANCE – Trunked Subscriber Tests XTS5000 (VHF 136-174)</b>   |  |  |         |
| Test Case   | Description  | Requirement                            | Results |
| <b>2.3.1</b>  | Trunking Control Channel Slot Time<br>(45 ms slot) |  |         |
|   | Encode Attack Time                                 | 2.00ms ≤ t ≤ 11.65ms                   | P       |
|   | RF Power Attack Time                               | 0.00ms ≤ t ≤ 11.65ms                   | P       |
|   | RF Power Turn Off Time                             | ≤ 1.57 ms                              | P       |
| <b>2.3.2</b>  | Trunking Request Time                              | ≤ 167.5 ms                             | P       |
| <b>2.3.3</b>  | Trunking Voice Access Time                         | ≤ 480 ms                               | P5      |
| <b>2.3.5</b>  | Transmit Time to Key on Traffic Channel            | ≤ 150.0 ms                             | P       |



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### Interoperability Test Cases and Results

| P25-CAB-CAI_TEST_REQ – March 2010, Section<br>2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked<br>Subscriber Unit Interoperability |  | DTR-<br>TIMCO0810<br>16 XTS    | DTR-<br>P25CAP08<br>1017 -<br>1110120<br>M01 | DTR-<br>P25CAP081<br>015 -3206  | DTR-<br>P25CAP081<br>015 -3212  | DTR-<br>TIMCO0810<br>16 XTS5000 | DTR-<br>P25CAP081<br>010 -<br>09111601 |
|---|--|--------------------------------|--|---------------------------------|---------------------------------|---------------------------------|--|
| Motorola Solutions Model Class<br>XTS5000 Subscriber  |  | Motorola<br>Astro 25<br>System | Harris<br>System                             | Tait/EADS<br>COR P25<br>Network | Cassidian<br>COR P25<br>TB5000i | Power<br>Trunk25<br>System      | EFJ<br>System                          |
| Test Case   | Description                                  | Results                        |  |                                 |                                 |                                 |  |
| <b>2.2.1</b>  | <b>Full Registration</b>                     |                                |  |                                 |                                 |                                 |  |
| <b>2.2.1.4.1</b>  | Test Case 1 - Valid Registration             |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.1.4.2</b>  | Test Case 2 – Denied or Refused Registration |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.1.4.3</b>  | Test Case 3 – Unverified Registration        |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.2</b>  | <b>Group Voice Call</b>                      |                                |  |                                 |                                 |                                 |  |
| <b>2.2.2.4.1</b>  | Test Case 1 - Group Call Granted             |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.2.4.2</b>  | Test Case 2 - Group Call Denied              |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.2.4.3</b>  | Test Case 3 - Group Call Request Queued      |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration                           | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration           | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration             | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |

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| P25-CAB-CAI_TEST_REQ – March 2010, Section<br>2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked<br>Subscriber Unit Interoperability |   | DTR-<br>TIMCO0810<br>16 XTS    | DTR-<br>P25CAP08<br>1017 -<br>1110120<br>M01 | DTR-<br>P25CAP081<br>015 -3206  | DTR-<br>P25CAP081<br>015 -3212  | DTR-<br>TIMCO0810<br>16 XTS5000 | DTR-<br>P25CAP081<br>010 -<br>09111601 |
|---|---|--------------------------------|--|---------------------------------|---------------------------------|---------------------------------|--|
| Motorola Solutions Model Class<br>XTS5000 Subscriber  |   | Motorola<br>Astro 25<br>System | Harris<br>System                             | Tait/EADS<br>COR P25<br>Network | Cassidian<br>COR P25<br>TB5000i | Power<br>Trunk25<br>System      | EFJ<br>System                          |
| Test Case   | Description   | Results                        |  |                                 |                                 |                                 |  |
| <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<br>Check   |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.3.4.2</b>  | Test Case 2 - Unit-to-Unit Call with Target Availability<br>Check Denied by Target  |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.3.4.3</b>  | Test Case 3 - Unit-to-Unit Call Queued with Target<br>Availability Check – Traffic Channel Assignment After<br>Target Availability Check  |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | N/A2                            | N/A2                            | N4                              | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.3.4.4</b>  | Test Case 4 - Unit-to-Unit Call Queued with Target<br>Availability Check – Traffic Channel Assignment<br>Before Target Availability Check |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | N/A1                           | N/A1   | P                               | P                               | P                               | N/A1                                   |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |

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| P25-CAB-CAI_TEST_REQ – March 2010, Section<br>2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked<br>Subscriber Unit Interoperability |   | DTR-<br>TIMCO0810<br>16 XTS    | DTR-<br>P25CAP08<br>1017 -<br>1110120<br>M01 | DTR-<br>P25CAP081<br>015 -3206  | DTR-<br>P25CAP081<br>015 -3212  | DTR-<br>TIMCO0810<br>16 XTS5000 | DTR-<br>P25CAP081<br>010 -<br>09111601 |
|---|---|--------------------------------|--|---------------------------------|---------------------------------|---------------------------------|--|
| Motorola Solutions Model Class<br>XTS5000 Subscriber  |   | Motorola<br>Astro 25<br>System | Harris<br>System                             | Tait/EADS<br>COR P25<br>Network | Cassidian<br>COR P25<br>TB5000i | Power<br>Trunk25<br>System      | EFJ<br>System                          |
| Test Case   | Description   | Results                        |  |                                 |                                 |                                 |  |
| <b>2.2.3.4.5</b>  | Test Case 5 - Unit-to-Unit Call without Target<br>Availability Check        |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | N1                             | N1   | N1                              | N1                              | N5                              | N1                                     |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.3.4.6</b>  | Test Case 6 - Unit-to-Unit Call Queued without Target<br>Availability Check |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | N1                             | N1   | N1                              | N1                              | N5                              | N1                                     |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.3.4.7</b>  | Test Case 7 - Unit-to-Unit Call Denied                                      |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.4</b>  | <b>Broadcast Voice Call</b>   |                                |  |                                 |                                 |                                 |  |
| <b>2.2.4.4.1</b>  | Test Case 1 - Broadcast Voice Call  |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |
| <b>2.2.5</b>  | <b>Affiliation</b>  |                                |  |                                 |                                 |                                 |  |
| <b>2.2.5.4.1</b>  | Test Case 1 - Radio Permitted to Affiliate with New<br>Group                |                                |  |                                 |                                 |                                 |  |
|   | Home Configuration  | P                              | P  | P                               | P                               | P                               | P                                      |
|   | Inter-System Roaming Configuration  | N2                             | N2   | N2                              | N2                              | N2                              | N2                                     |
|   | Inter-WACN Roaming Configuration  | N3                             | N3   | N3                              | N3                              | N3                              | N3                                     |

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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-TIMCO0810<br>16 XTS        | DTR-P25CAP08<br>1017 -<br>1110120<br>M01 | DTR-P25CAP081<br>015 -3206      | DTR-P25CAP081<br>015 -3212      | DTR-TIMCO0810<br>16 XTS5000 | DTR-P25CAP081<br>010 -<br>09111601 |
|--|--|--------------------------------|--|---------------------------------|---------------------------------|-----------------------------|------------------------------------|
| <b>Motorola Solutions Model Class XTS5000 Subscriber</b>   |  | Motorola<br>Astro 25<br>System | Harris<br>System                         | Tait/EADS<br>COR P25<br>Network | Cassidian<br>COR P25<br>TB5000i | Power<br>Trunk25<br>System  | EFJ<br>System                      |
| <b>Test Case</b>   | <b>Description</b>                                   | <b>Results</b>                 |  |                                 |                                 |                             |                                    |
| <b>2.2.5.4.2</b>   | Test Case 2 - Radio Denied Affiliation to New Group  |                                |  |                                 |                                 |                             |                                    |
|  | Home Configuration                                   | P                              | P  | P                               | P                               | P                           | P                                  |
|  | Inter-System Roaming Configuration                   | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                     | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |
| <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 Configuration                                   | P                              | P  | P                               | P                               | N6                          | P                                  |
|  | Inter-System Roaming Configuration                   | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                     | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |
| <b>2.2.7</b>   | <b>Emergency Alarm</b>                               |                                |  |                                 |                                 |                             |                                    |
| <b>2.2.7.4.1</b>   | Test Case 1 - Emergency Alarm                        |                                |  |                                 |                                 |                             |                                    |
|  | Home Configuration                                   | P                              | P  | P                               | P                               | P                           | P                                  |
|  | Inter-System Roaming Configuration                   | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                     | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |
| <b>2.2.8</b>   | <b>Emergency Group Call</b>                          |                                |  |                                 |                                 |                             |                                    |
| <b>2.2.8.4.1</b>   | Test Case 1 - Emergency Call                         |                                |  |                                 |                                 |                             |                                    |
|  | Home Configuration                                   | P                              | P  | P                               | P                               | P                           | P                                  |
|  | Inter-System Roaming Configuration                   | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                     | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |

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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-TIMCO0810<br>16 XTS        | DTR-P25CAP08<br>1017 -<br>1110120<br>M01 | DTR-P25CAP081<br>015 -3206      | DTR-P25CAP081<br>015 -3212      | DTR-TIMCO0810<br>16 XTS5000 | DTR-P25CAP081<br>010 -<br>09111601 |
| <b>Motorola Solutions Model Class XTS5000 Subscriber</b>   |   | Motorola<br>Astro 25<br>System | Harris<br>System                         | Tait/EADS<br>COR P25<br>Network | Cassidian<br>COR P25<br>TB5000i | Power<br>Trunk25<br>System  | EFJ<br>System                      |
| <b>Test Case</b>   | <b>Description</b>                              | <b>Results</b>                 |  |                                 |                                 |                             |                                    |
| <b>2.2.10</b>  | <b>Encryption</b>                               |                                |  |                                 |                                 |                             |                                    |
| <b>2.2.10.4.1</b>  | Test Case 1 - Call Privacy for Encrypted Call   |                                |  |                                 |                                 |                             |                                    |
|  | Home Configuration                              | P                              | P  | P                               | P                               | P                           | P                                  |
|  | Inter-System Roaming Configuration              | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |
| <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 Configuration                              | P                              | P  | P                               | P                               | P                           | P                                  |
|  | Inter-System Roaming Configuration              | N2                             | N2                                       | N2                              | N2                              | N2                          | N2                                 |
|  | Inter-WACN Roaming Configuration                | N3                             | N3                                       | N3                              | N3                              | N3                          | N3                                 |

## Project 25 Compliance Assessment Program

Summary Test Report

XTS 5000 Portable Subscriber

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| <b>Model Class: XTS5000 Portable Subscriber</b>            |  |
|--|--|
| <b>Product Name, Definition and Unique ID</b>              | <b>Model Number and Installed Options</b>                                    |
| <b>700/800 MHz</b>   |  |
| XTS5000 700/800MHz Portable;<br>Firmware/DSP: R12 thru R19 | H18UCC9PW5-N, H18UCF9PW6-N, H18UCH9PW7-N<br>Options: Trunking and Encryption |
| <b>VHF</b>   |  |
| XTS5000 VHF Portable;<br>Firmware/DSP: R12 thru R19        | H18KEC9PW5-N, H18KEF9PW6-N, H18KEH9PW7-N<br>Options: Trunking and Encryption |
| <b>UHF-R1</b>  |  |
| XTS5000 UHF R1 Portable;<br>Firmware/DSP: R12 thru R19     | H18QDC9PW5-N, H18QDF9PW6-N, H18QDH9PW7-N<br>Options: Trunking and Encryption |
| <b>UHF-R2</b>  |  |
| XTS5000 UHF R2 Portable;<br>Firmware/DSP: R12 thru R19     | H18SDC9PW5-N, H18SDF9PW6-N, H18SDH9PW7-N<br>Options: Trunking and Encryption |

| <b>Model Class: ASTRO 25 System</b>           |   |
|---|---|
| <b>Product Name, Definition and Unique ID</b> | <b>Model Number and Installed Options</b> |
| Motorola ASTRO 25 Trunked System              | Release 7.7                               |
| Motorola ASTRO 25 Trunked System              | Release 7.8                               |
| Motorola ASTRO 25 Trunked System              | Release 7.9                               |
| Motorola ASTRO 25 Trunked System              | Release 7.11                              |
| Motorola ASTRO 25 Trunked System              | Release 7.13                              |

| <b>Test Case Result Definitions</b>   |                  |
|---|------------------|
| <b>No Test Performed</b>  | ---              |
| <b>Test Does Not Apply to the Test Object</b>   | N/A              |
| <b>Test Object Meets Requirements</b>   | P (Pass)         |
| <b>Test Object Does Not Meet Requirements</b>   | F (Fail)         |
| <b>Test Object is Not Conclusive</b>  | I (Inconclusive) |
| <b>Comments</b>   |                  |
| P1: Motorola subscriber passes Reference Sensitivity ( $\leq -116$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.                                 |                  |
| P2: Motorola subscriber passes Faded Reference Sensitivity ( $\leq -108$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.                           |                  |
| P3: Motorola subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) ( $\geq 50$ $\mu$ s) and Simulcast ( $\geq 80$ $\mu$ s) modulations. |                  |
| P4: Motorola subscriber passes Adjacent Channel Rejection ( $\geq 60$ dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.                               |                  |
| P5: Trunking Voice Access Time will vary dependent on actual system design and implementation.  |                  |
| N1: Motorola Subscribers do not support unit-to-unit call without target availability check.  |                  |
| N2: Motorola, Harris, Tait/EADS Infrastructures and Motorola Subscribers do not support the Inter-System Roaming Configuration.   |                  |
| N3: Motorola, Harris, Tait/EADS Infrastructures and Motorola Subscribers do not support Inter-WACN Roaming Configurations.  |                  |
| N4: PowerTrunk25 FNE does not support checking for destination availability if no channel traffic resources are available.  |                  |
| N5: PowerTrunk25 FNE does not support unit to unit call without target availability check.  |                  |
| N6: PowerTrunk25 FNE does not support announcement group call.  |                  |
| N/A1: Test Case 2.2.3.4.4 is not applicable for Motorola subscribers on Motorola, Harris and EFJ infrastructures; see results of test case 2.2.3.4.3.                     |                  |

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|   |
|---|
| N/A2: Test Case 2.2.3.4.3 is not applicable for Motorola subscribers on Tait/EADS, Cassidian, PowerTrunk infrastructures; see results of test case 2.2.3.4.4. |
|---|

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**OMB NO:** 1640-0015

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

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ICR REFERENCE NUMBER: 201204-1640-001 – July 2012