

# cdma2000® Applications Feature Comparison

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TIA/EIA-98-E	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
<b>Receiver Tests</b>							
1.3 Fundamental/Supplemental Channel Test Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.1 Frequency Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.2.2.1 Neighbor Set Pilot Detection & Incorrect Detection in Soft Handoff	No	No	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>
3.2.2.2 Candidate Set Pilot Detection & Incorrect Detection in Soft Handoff	No	No	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>
3.2.2.3 Active Set Pilot Loss Detection in Soft Handoff	No	No	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>	Yes <sub>6</sub>
3.3.2 Demodulation of slotted Paging Channel with AWGN	No	No	No	Yes	Yes	Yes	Yes
3.4.1 Demodulation of Forward Fundamental Channel with AWGN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.4.2 Demodulation of Forward Fundamental Channel with Fading	No	No	No	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>
3.4.3 Demodulation of Forward Fundamental Channel During Soft Handoff	No	No	No	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>
3.4.4 Decision of Power Control Bit for Channels Belonging to Different Power Control Sets during Soft Handoff	No	No	Yes	Yes	Yes	Yes	Yes
3.4.5 Decision of Power Control Bit for Channels Belonging to Same Power Control Sets during Soft Handoff	No	No	Yes	Yes	Yes	Yes	Yes
3.4.6 Demodulation of Power Control Subchannel During Soft Handoff	No	No	Yes	Yes	Yes	Yes	Yes
3.4.7 Demodulation of Forward Traffic Channel in Multipath Fading Channel with Closed Loop Power Control (FPC_MODE=000)	No	No	No	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>
3.4.9 Demodulation of Forward Traffic Channel in Multipath Fading Channel with Closed Loop Power Control (FPC_MODE=000 or 100)	No	No	No	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>
3.5.1 Receiver Sensitivity and Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.5.2 Single Tone Desensitization Tests 1 and 2	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>



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TIA/EIA-98-E	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
3.5.3 Intermodulation Spurious Response Attenuation Tests 1 and 2	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>
3.5.4 Adjacent Channel Selectivity	Yes <sub>8</sub>	Yes <sub>8</sub>	Yes <sub>8</sub>	Yes <sub>8</sub>	Yes <sub>8</sub>	Yes <sub>8</sub>	Yes <sub>8</sub>
3.5.5 Receiver Blocking Characteristics (Band Class 6)	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>
3.6.1 Conducted Spurious Emissions	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
3.6.2 Radiated Spurious Emissions	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
3.7.1 Supervision Paging Channel	Partially	Partially	Partially	Partially	Partially	Partially	Partially
<b>Transmitter Tests</b>							
4.1 Transmit Frequency Accuracy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.2.1 CDMA to CDMA Hard Handoff	Partially	Partially	Partially	Partially	Partially	Partially	Partially
4.3.1 Time Reference	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.3.1 Time Reference Slew Rate	Partially	Partially	Partially	Partially	Partially	Partially	Partially
4.3.2 Reverse Pilot Channel to Code Channel Time Tolerance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.3.4 Waveform Quality and Frequency Accuracy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.3.5 Code Domain Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.1 Range of Open Loop Output Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.2 Time Response of Open Loop Power Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.3 Access Probe Output Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.4 Range of Closed Loop Power Control	Partially <sub>4</sub>	Partially <sub>4</sub>	Partially <sub>4</sub>	Partially <sub>4</sub>	Partially <sub>4</sub>	Partially <sub>4</sub>	Partially <sub>4</sub>
4.4.5 Maximum RF Output Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.6 Minimum Controlled Output Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.4.7 Standby Output Power and Gated Output Power	Partially	Partially	Partially	Partially	Partially	Partially	Partially
4.4.9 Code Channel to Reverse Pilot Output Power Accuracy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.5.1 Conducted Spurious Emissions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.5.2 Radiated Spurious Emissions	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
4.5.3 Occupied Bandwidth (Band classes 3 & 6 only)	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>

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AMPS: TIA-1035	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
9.8 WLL Call Waiting Indicator Support	No	Yes	Yes	Yes	Yes	Yes	Yes

AMPS: TIA/EIA-690	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
<b>AMPS Receiver Tests</b>							
2.1.1 Frequency Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.1.1 Type of Modulation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.1 Electrical Audio Frequency Response	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.2 Audio Muting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.3 Expander	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.4 Hum and Noise	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.5 Audio Distortion	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.2.2.6 Receive Audio Frequency Response	Yes <sub>9</sub>	Yes <sub>9</sub>	Yes <sub>9</sub>	Yes <sub>9</sub>	Yes <sub>9</sub>	Yes <sub>9</sub>	Yes <sub>9</sub>
2.3.1 RF Sensitivity	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2.3.2 Adjacent and Alternate Channel Desensitization	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>
2.3.3 Intermodulation Spurious Response Attenuation	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>	Yes <sub>3</sub>
2.3.4 Protection Against Spurious Response Interference	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>	Yes <sub>2</sub>
2.4 Conducted Spurious Emissions	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
2.5 Radiated Spurious Emissions	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
2.6 Received Signal Strength Indicator (RSSI)	Partially	Partially	Partially	Partially	Partially	Partially	Partially
<b>AMPS Transmitter Tests</b>							
3.1.1 Frequency Coverage	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.1.2 Frequency Stability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.1.3 Carrier Switching Time	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
3.1.4 Channel Switching Time	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>

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AMPS: TIA/EIA-690	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
3.2.1 RF Power Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.2.2 RF Power Transition Time	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
3.3.1 Modulation Type and Modulation Stability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.2.1 Compressor	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.2.2 Transmit Electrical Audio Response	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.2.3 Modulation Deviation Limiting	Partially	Partially	Partially	Partially	Partially	Partially	Partially
3.3.2.4 Audio Voice Path Muting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.2.5 Transmit Audio Frequency Response	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.2.6 Transmit Audio Sensitivity	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.3 Wideband Data	No	Yes Option-402	No	Yes	Yes	Yes	Yes
3.3.4 Supervisory Audio Tone (SAT)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.5 Signaling Tone (ST)	Partially	Yes Option-402	Partially	Partially	Yes	Yes	Yes
3.3.6 FM Hum and Noise	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.3.8 Modulation Distortion and Noise	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3.4.2 Harmonic and Spurious Emissions (Conducted) – Discrete	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
3.4.3 Harmonic and Spurious Emissions (Radiated) – Discrete	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>	Yes <sub>4</sub>
10.1 DTMF	No	Yes Option-402	No	Yes	Yes	Yes	Yes

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Mobile IP CS0037.0 V1.0	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
Basic Mobile IP	No	No	No	Yes	No	Yes	Yes
<b>NOTE: everything in this section requires Software Concepts Inc's MOB-IP-SIM</b>							
Agent Discovery & Registration using Dynamic Home Address Assignment	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Agent Discovery & Registration using Static Home Address Assignment, Successful	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Inter-PDSN Handoff, Mobile Station in Active State	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Inter-PDSN Handoff, Mobile Station in Dormant State	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Intra-PDSN Handoff, Mobile Station in Active State	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Intra-PDSN Handoff, Mobile Station in Dormant State	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Mobile Station De-Registers	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Mobile Station Registration Request Failed, HA has Insufficient Resources	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Mobile Station Registration Request Retry	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Registration Lifetime Processing	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Router Advertisement Lifetime Expires	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Simple IP Establishment w/ CHAP	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Simple IP Establishment w/ PAP	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Simple IP Inter-PDSN Idle Handoff	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Simple IP Intra-PDSN Handoff, Mobile Station in Dormant State	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>
Successful PPP Negotiation & Termination	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>

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Call Processing	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
Band Classes	Yes <sub>11</sub>	Yes <sub>11</sub>	Yes <sub>11</sub>	Yes <sub>11</sub>	Yes <sub>11</sub>	Yes <sub>11</sub>	Yes <sub>11</sub>
SO 32768,1,2,3,55,9,17 (Voice, Loopback)	No	Yes	Yes	Yes	Yes	Yes	Yes
SO 68,70 (EVRC-B, EVRC-WB)	No	Yes	No	Yes	Yes	Yes	Yes
SO 6,14 (SMS)	No	Yes Option-409	No	Yes	Yes	Yes	Yes
SO 32 (TDSO)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SO 33 (Packet Data)	No	No	No	Yes	Yes	Yes	Yes
Real Time Vocoder	No	Yes	No	Yes	Yes	Yes	Yes
Authentication	No	Yes Option-403	No	Yes	Yes	Yes	Yes
Rel A Control Channels	No	Yes Option-401	No	Yes	Yes	Yes	Yes
SMS	No	Yes Option-409	No	Yes	Yes	Yes	Yes
Roaming Indicator	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Call Waiting	No	Yes	No	Yes	Yes	Yes	Yes
Fast Forward Power Control	No	No	No	Yes	Yes	Yes	Yes
MS Reported FER	No	Yes	No	Yes	Yes	Yes	Yes
Hybrid Mode (Idle)	No	Yes Option-406	No	Yes	Yes	Yes	Yes
Hybrid Mode Data Handoff	No	No	No	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>	Yes <sub>7</sub>

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Lab Application Features	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
153.6 kbps IP Data Throughput (Reverse link)	No	No	No	Yes	Yes	Yes	Yes
153.6 kbps IP Data Throughput (Forward link)	No	No	No	Yes	Yes	Yes	Yes
307.2 kbps IP Data Throughput (Forward link)	No	No	No	No	No	No	No
Data Throughput Monitor	No	No	Yes	Yes	Yes	Yes	Yes
External Digital Baseband I/Q Fading	No	Yes <sub>1, 5</sub> Option-405	No	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>	Yes <sub>1, 5</sub>
Graphical Access Probe Power	No	No	Yes	Yes	Yes	Yes	Yes
IP Routing State	No	No	No	Yes	No	Yes	Yes
Multiple Unit Synchronization	No	Yes Option-406	No	Yes	Yes	Yes	Yes
Protocol Logging w/ WPA	No	Yes Option-407	No	Yes	Yes	Yes	Yes
Settable Rx Delay	No	No	No	Yes	No	Yes	Yes
VoIP	No	No	No	Yes	Yes	Yes	Yes
IPv6	No	Yes- R2C 200909	No	No	No	Yes	Yes

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Measurements	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
Access Probe Power	No	Yes	Yes	Yes	Yes	Yes	Yes
Channel Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Analog TX Power (AMPS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Average Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Code Channel Time and Phase	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frame Error Rate (FER)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FER w/ AWGN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gated Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Graphical Access Probe Power	No	No	Yes	Yes	Yes	Yes	Yes
Modulation Quality	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Handoff Waveform Quality	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waveform Quality, Code Domain	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Tone Audio	No	Yes	No	Yes	Yes	Yes	Yes
Maximum/Minimum Power	No	Yes	Yes	Yes	Yes	Yes	Yes
TDSO Frame Error Rate	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Receiver Sensitivity	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spectrum Monitor	No	Yes	Yes	Yes	Yes	Yes	Yes
Time Response of Open Loop Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TX Channel Power w/Fast Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TX Dynamic Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TX Spurious Emissions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frequency Stability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FM: Deviation, distortion, frequency	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio:2 Level, SINAD, frequency, distortion, swept audio	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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Measurements	E1962A	E1962B	E6702A	E6702B	E6702T	E6702C	E6702D
Fast Device Tune	No	Yes E1999A-202	No	Yes	Yes	Yes	Yes
I/Q Analyzer – Eye diagram, constellation/vector diagram	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PESQ Audio measurement	No	Yes E1999A-301	No	No	No	Yes E1999A-301	Yes E1999A-301
GPS calibration (Even Second to RF characterization)	No	Yes <sub>10</sub> E5515C-H16	No	Yes <sub>10</sub> E5515C-H16	Yes <sub>10</sub> E5515C-H16	Yes <sub>10</sub> E5515C-H16	Yes <sub>10</sub> E5515C-H16
Internal GPS source	No	Yes E1999A-206	No	Yes	Yes	Yes	Yes
A-GPS Message Pipe	No	No	No	No	No	Yes	Yes

1: Requires HW option 004 + external baseband studio HW & SW

2: Requires an external signal generator

3: Requires 2 external signal generators

4: Requires external spectrum analyzer, does not require network emulator

5: Requires fader

6: Requires automation to achieve proper timing

7: Requires External Mobile IP simulator

8: Requires External signal generator with 1xEV-DO and CDMA capabilities

9: Requires an external “artificial ear” and acoustic coupler to measure mobile speaker sound pressure level

10: Not Compatible with digital baseband fading, E5515C-004

11: we support Band Classes 0, 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 14, 15, 18, 19. For E1966A band classes 11, 12, 18, 19 need a R2C license after 200810. Band Classes 2, 8, 9, 13, 16, 17 require R2C license after 2010 or E6702D

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