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Appendix F

Frequency Stability Measurements

According to CFR 47 (FCC) part 2.1055

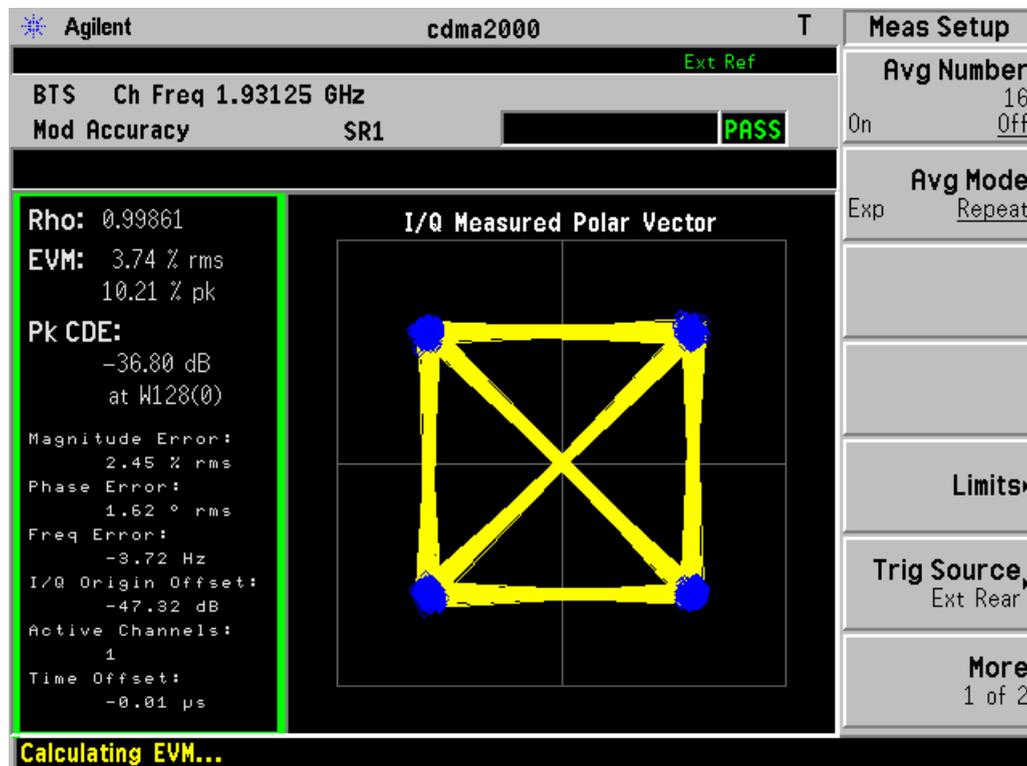
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Frequency Stability versus Voltage

1. AC POWER TEST RESULT

TRX1: Channel No. 25(1931.25MHz)
Voltage= 170V



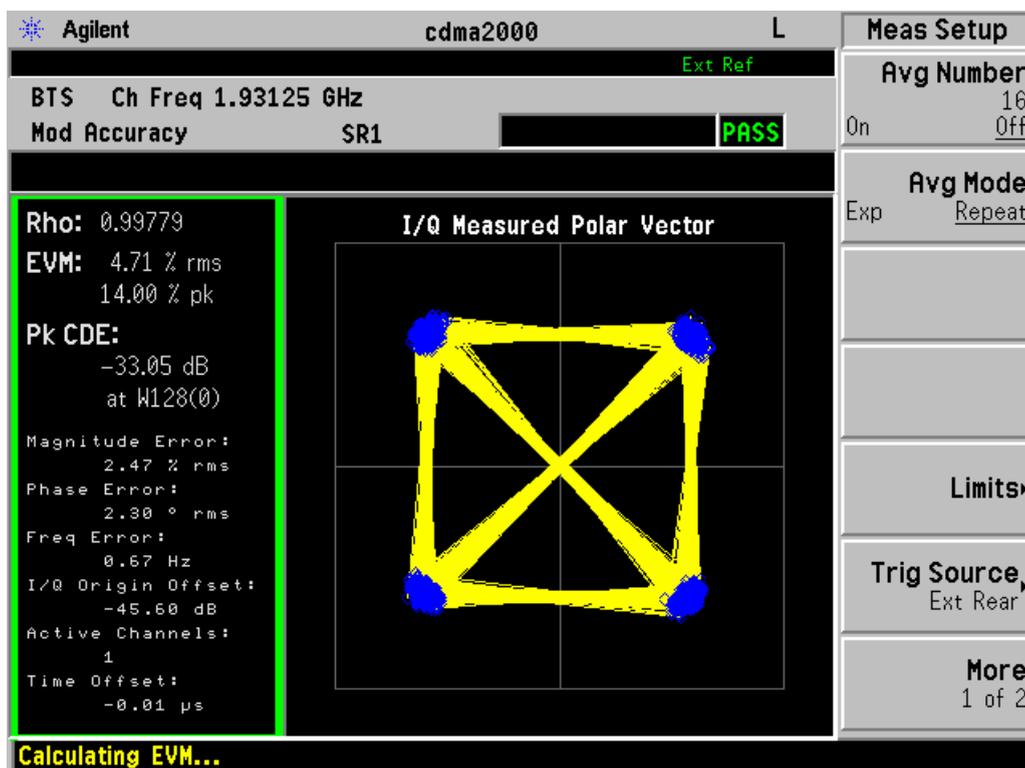
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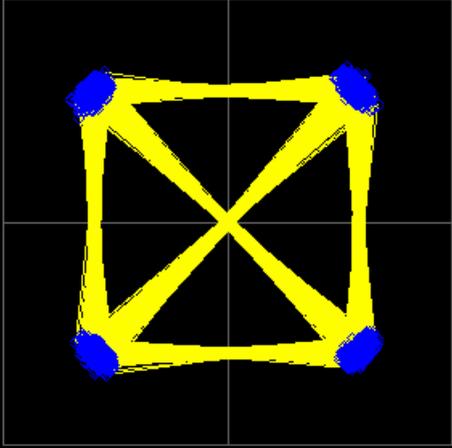
Voltage= 200V



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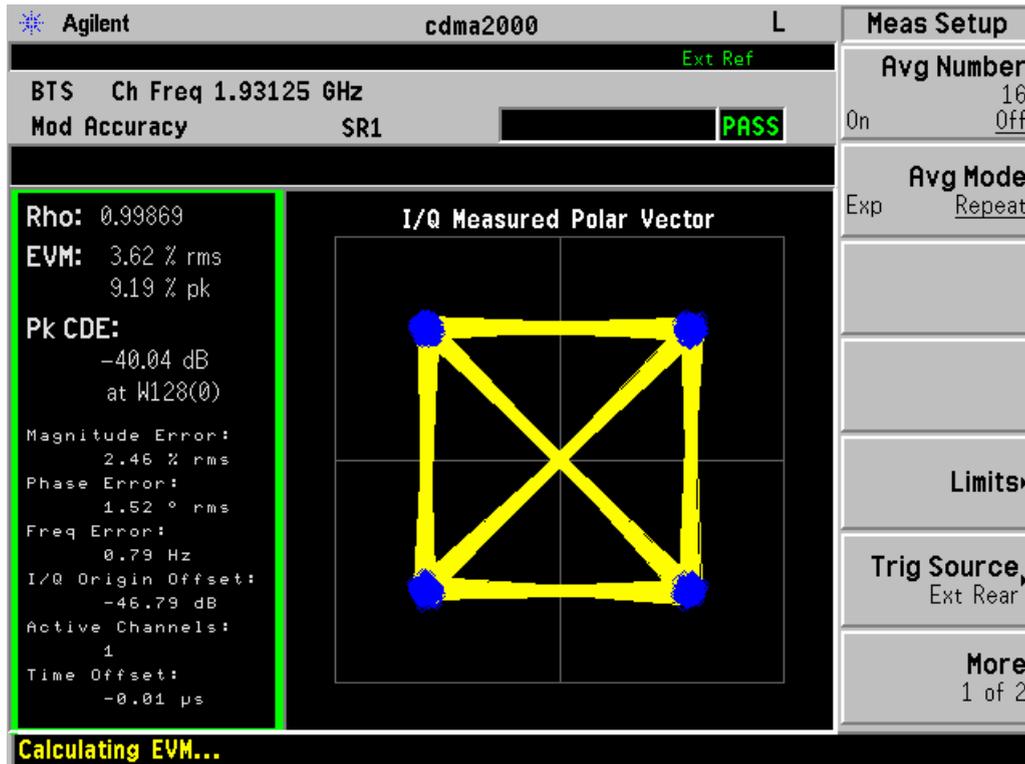
Voltage= 230V

| | | | | | |
|---|---------|--|---------|---|--|
| Agilent | | cdma2000 | L | Meas Setup | |
| | | | Ext Ref | | |
| BTS | Ch Freq | 1.93125 GHz | | | |
| Mod Accuracy | SR1 | | PASS | | |
| Rho: 0.99689 EVM: 5.59 % rms 14.86 % pk Pk CDE: -27.54 dB at W128(0) Magnitude Error: 2.47 % rms Phase Error: 2.88 ° rms Freq Error: -2.19 Hz I/Q Origin Offset: -47.89 dB Active Channels: 1 Time Offset: -0.01 µs | | I/Q Measured Polar Vector  | | Avg Number 16 On Off Avg Mode Exp Repeat Limits Trig Source Ext Rear More 1 of 2 | |
| Calculating EVM... | | | | | |

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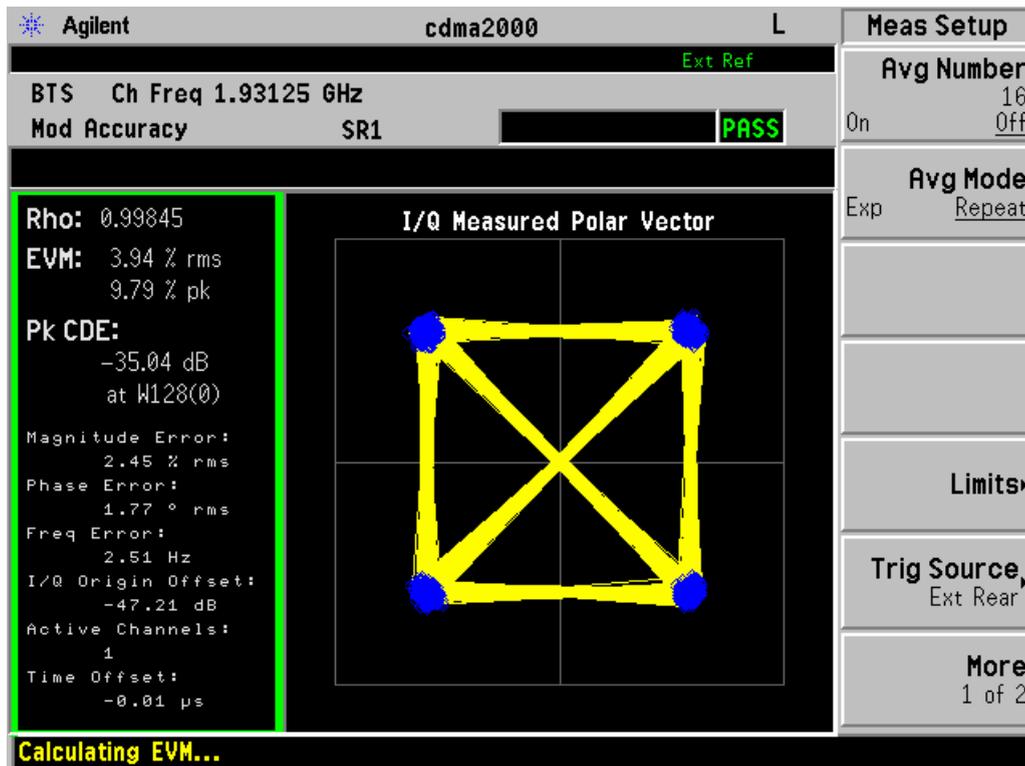
Voltage= 204V



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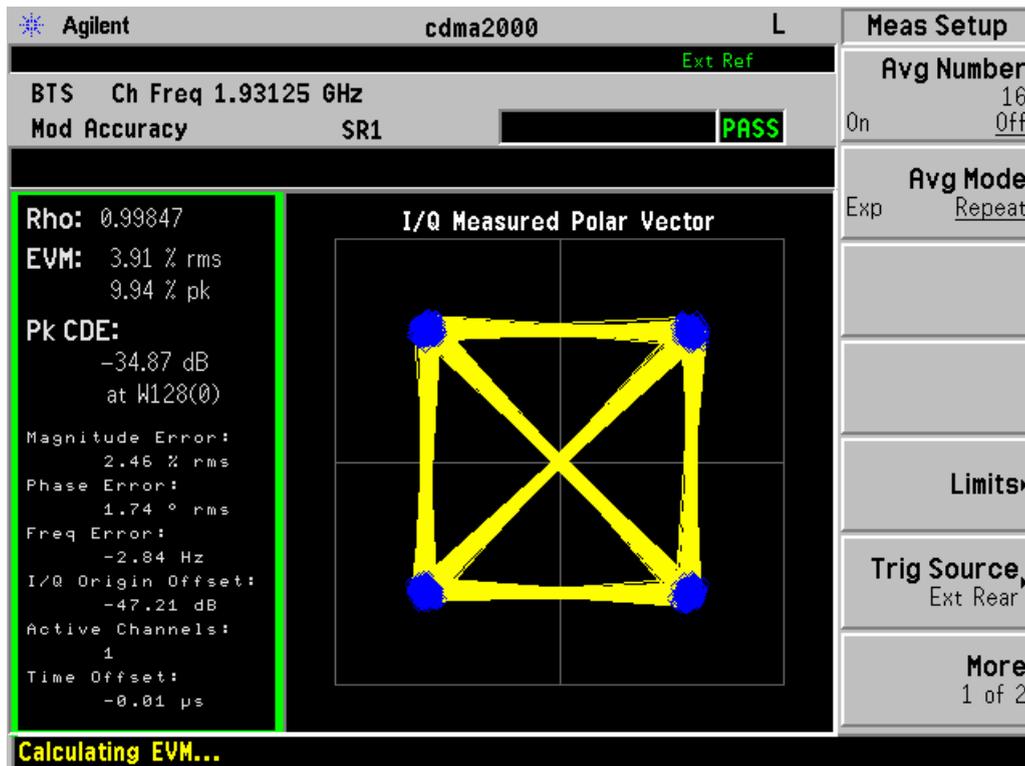
Voltage= 240V



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Voltage= 276V

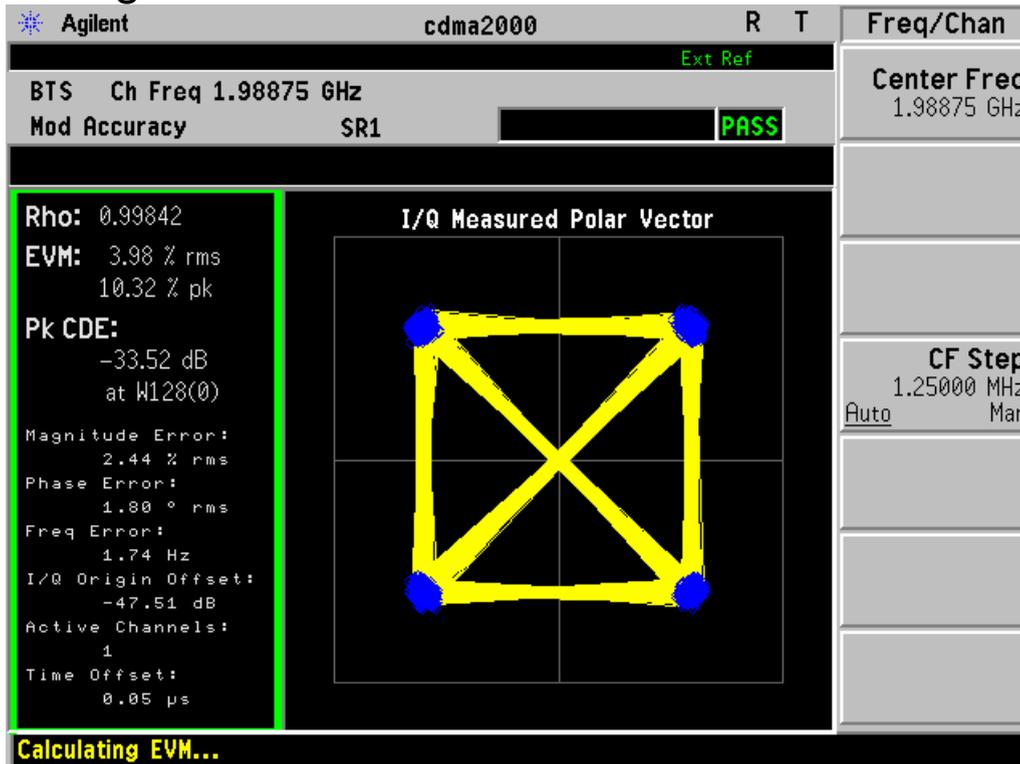


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TRX2: Channel No. 1175(1988.75MHz)

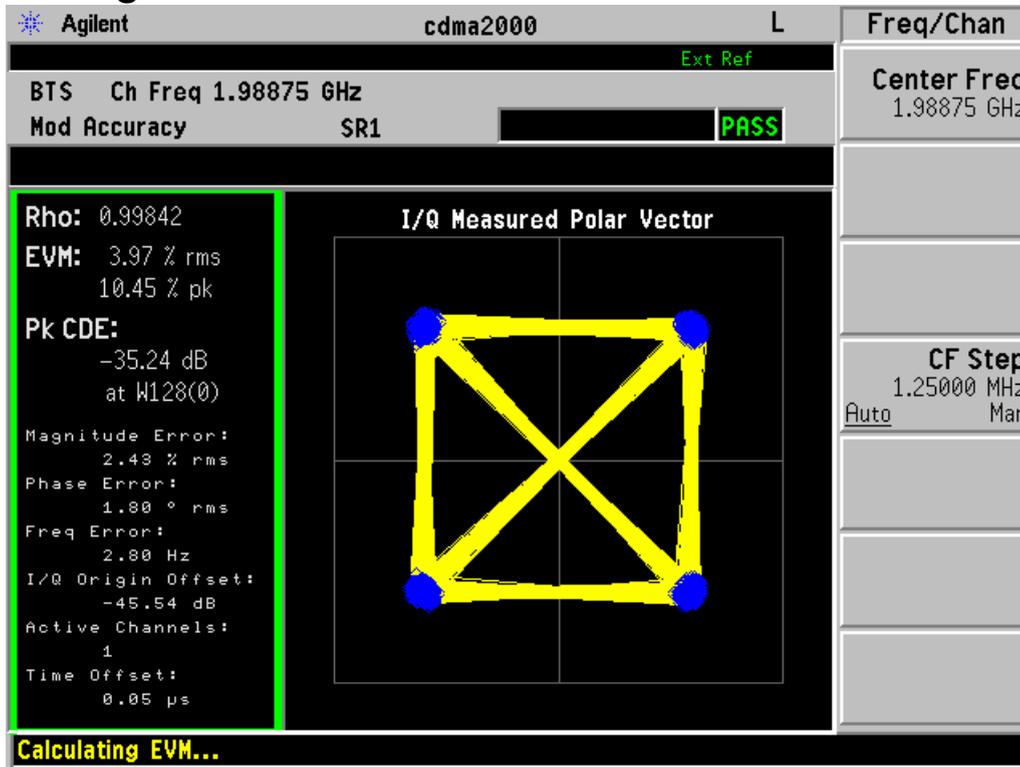
Voltage= 170V



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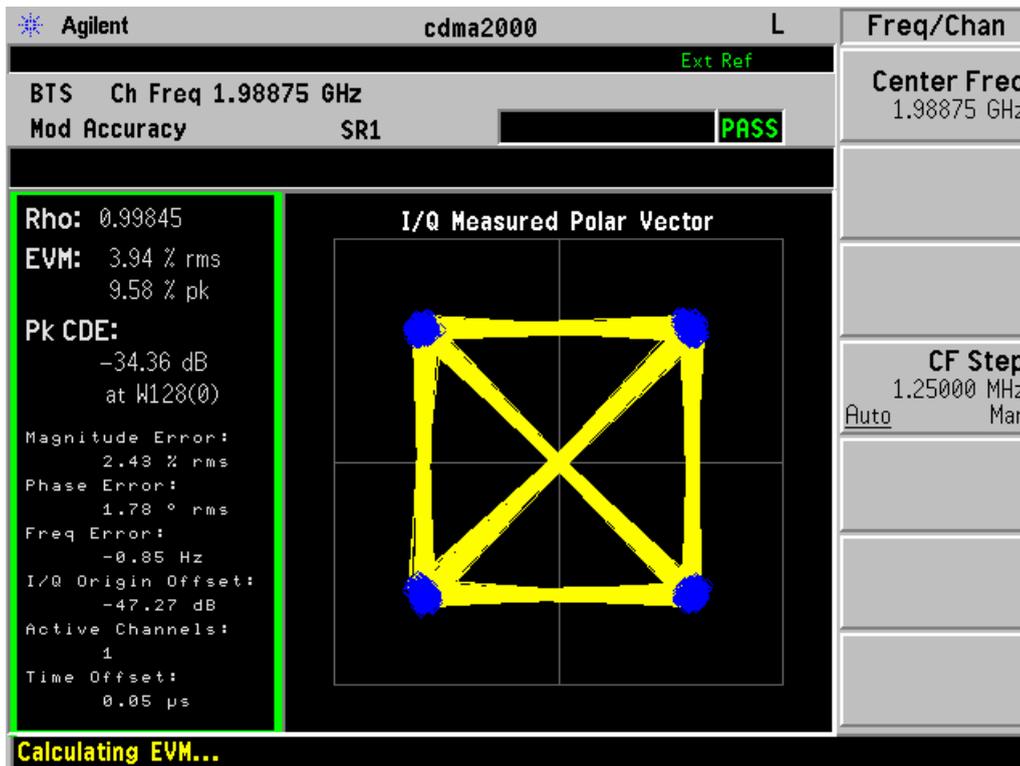
Voltage= 200V



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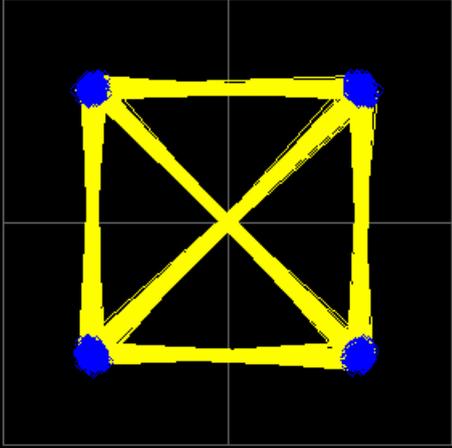
Voltage= 230V



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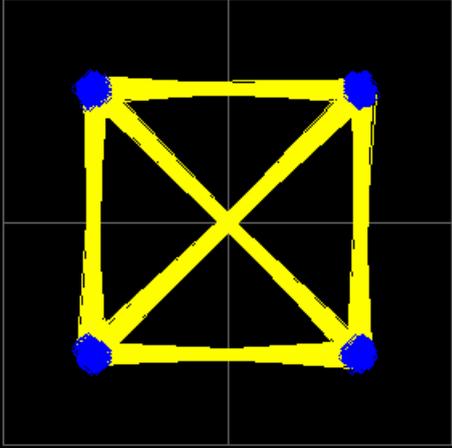
Voltage= 204V

| | | | | |
|---|---------|--|---------|---|
| Agilent | | cdma2000 | L | Freq/Chan |
| | | | Ext Ref | |
| BTS | Ch Freq | 1.98875 GHz | | Center Freq |
| Mod Accuracy | SR1 | | PASS | 1.98875 GHz |
| Rho: 0.99856 EVM: 3.80 % rms 9.49 % pk Pk CDE: -36.76 dB at W128(0) Magnitude Error: 2.43 % rms Phase Error: 1.68 ° rms Freq Error: -5.23 Hz I/Q Origin Offset: -46.12 dB Active Channels: 1 Time Offset: 0.05 µs | | I/Q Measured Polar Vector  | | CF Step 1.25000 MHz Auto Man |
| Calculating EVM... | | | | |

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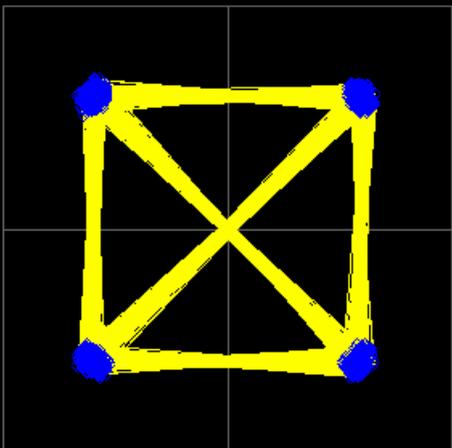
Voltage= 240V

| | | | | |
|--|---------|--|---------|---|
| Agilent | | cdma2000 | L | Freq/Chan |
| | | | Ext Ref | |
| BTS | Ch Freq | 1.98875 GHz | | Center Freq |
| Mod Accuracy | SR1 | | PASS | 1.98875 GHz |
| Rho: 0.99857 EVM: 3.78 % rms 8.98 % pk Pk CDE: -35.41 dB at W128(0) Magnitude Error: 2.43 % rms Phase Error: 1.66 ° rms Freq Error: 2.93 Hz I/Q Origin Offset: -46.65 dB Active Channels: 1 Time Offset: 0.05 µs | | I/Q Measured Polar Vector  | | CF Step 1.25000 MHz Auto Man |
| Calculating EVM... | | | | |

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Voltage= 276V

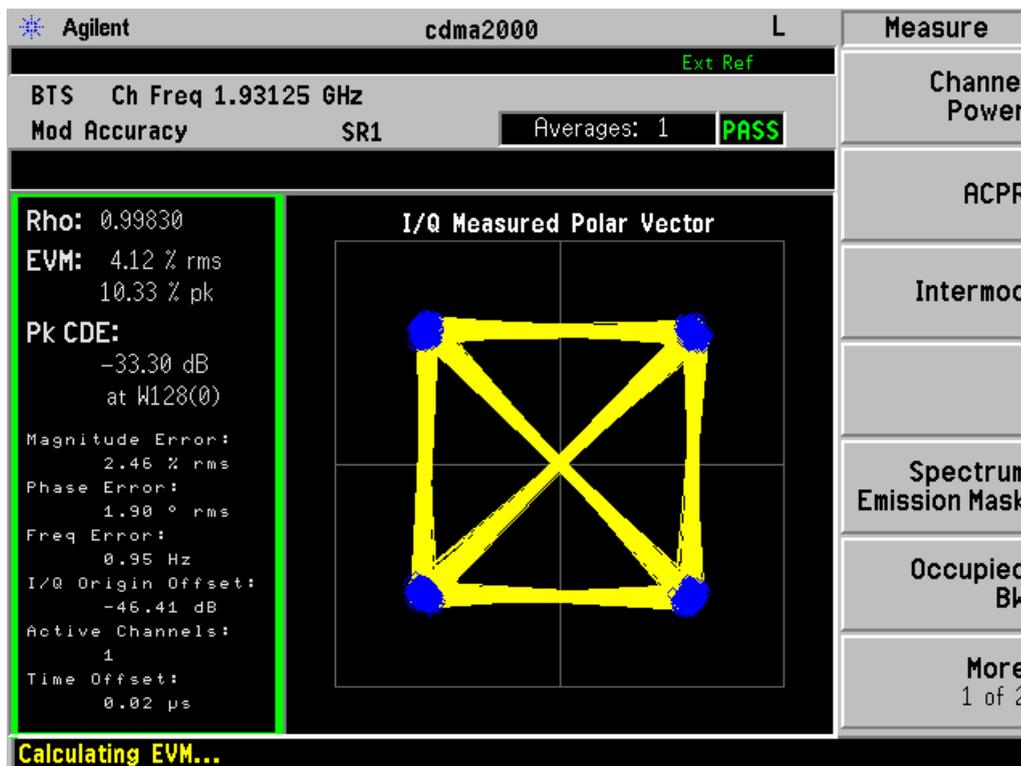
| | | | | |
|---|---------|--|---------|---|
| Agilent | | cdma2000 | L | Freq/Chan |
| | | | Ext Ref | |
| BTS | Ch Freq | 1.98875 GHz | | Center Freq |
| Mod Accuracy | SR1 | | PASS | 1.98875 GHz |
| Rho: 0.99814 EVM: 4.32 % rms 11.70 % pk Pk CDE: -31.62 dB at W128(0) Magnitude Error: 2.44 % rms Phase Error: 2.05 ° rms Freq Error: 1.54 Hz I/Q Origin Offset: -45.85 dB Active Channels: 1 Time Offset: 0.05 µs | | I/Q Measured Polar Vector  | | CF Step 1.25000 MHz Auto Man |
| Calculating EVM... | | | | |

2. DC POWER TEST RESULT

Frequency Stability versus Voltage

TRX1: Channel No. 25(1931.25MHz)

Voltage= -38.4V



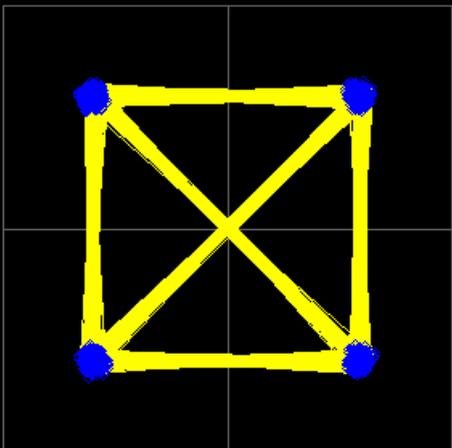
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Voltage= -43.2V

| | | | | |
|---|--|----------|---|------------------------|
| Agilent | | cdma2000 | L | Measure |
| BTS Ch Freq 1.93125 GHz | | | | Channel Power |
| Mod Accuracy SR1 Averages: 3 PASS | | | | ACPR |
| Rho: 0.99801 EVM: 4.41 % rms 15.33 % pk Pk CDE: -27.91 dB at W128(0) Magnitude Error: 2.47 % rms Phase Error: 2.07 ° rms Freq Error: 0.09 Hz I/Q Origin Offset: -46.44 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

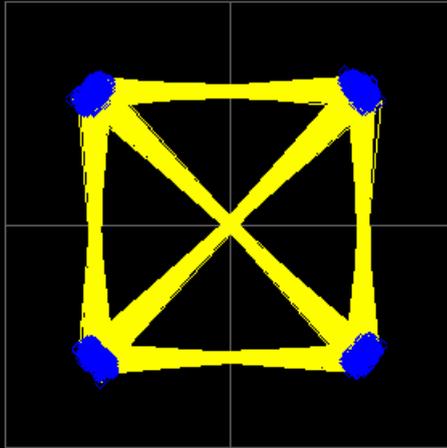
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Voltage= -48V

| | | | | |
|---|--|--|-------------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| BTS | | Ch Freq 1.93125 GHz | Ext Ref | Channel Power |
| Mod Accuracy | | SR1 | Averages: 7 | PASS |
| Rho: 0.99775 EVM: 4.68 % rms 15.33 % pk Pk CDE: -27.68 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 2.26 ° rms Freq Error: 0.31 Hz I/Q Origin Offset: -46.76 dB Active Channels: 1 Time Offset: 0.02 µs | | I/Q Measured Polar Vector  | | ACPR |
| | | | | Intermod |
| | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

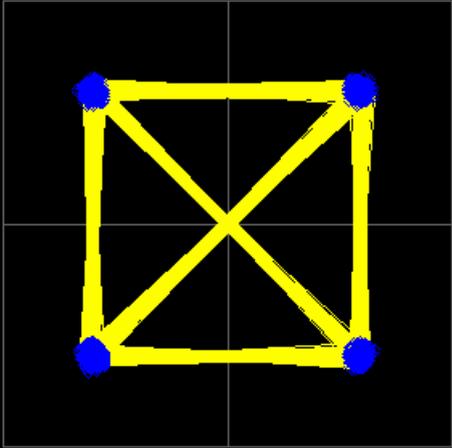
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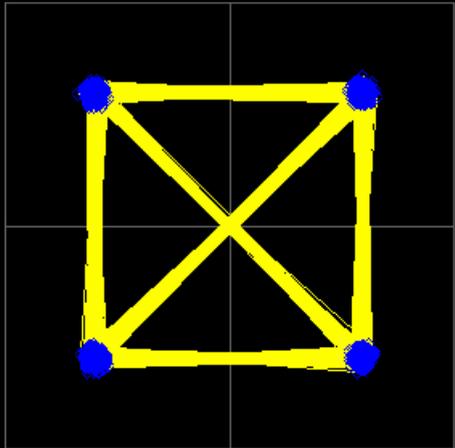
Voltage= -52.8V

| | | | | |
|---|---------|-------------|-------------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 9 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99791 EVM: 4.51 % rms 15.33 % pk Pk CDE: -27.68 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 2.14 ° rms Freq Error: 0.33 Hz I/Q Origin Offset: -46.77 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
|  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

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Voltage= -57.6V

| | | | | |
|---|-----|--|------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| BTS Ch Freq 1.93125 GHz | | Ext Ref | | Channel Power |
| Mod Accuracy | SR1 | Averages: 1 | PASS | ACPR |
| Rho: 0.99871 | |  | | Intermod |
| EVM: 3.59 % rms 8.92 % pk | | | | Spectrum Emission Mask |
| Pk CDE: -40.18 dB at W128(0) | | | | Occupied BW |
| Magnitude Error: 2.48 % rms | | | | More 1 of 2 |
| Phase Error: 1.49 ° rms | | | | |
| Freq Error: 1.10 Hz | | | | |
| I/Q Origin Offset: -47.33 dB | | | | |
| Active Channels: 1 | | | | |
| Time Offset: 0.02 µs | | | | |
| Calculating EVM... | | | | |

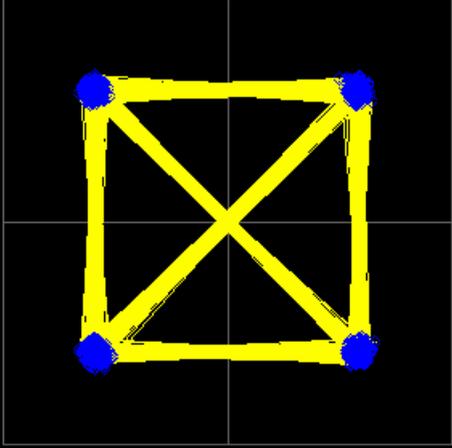
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TRX2: Channel No. 1175(1988.75MHz)

Voltage= -38.4V

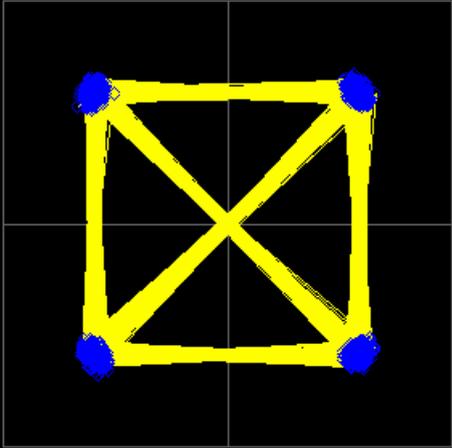
| | | |
|-------------------------|-------------|------------------------|
| * Agilent cdma2000 L | | Measure |
| Ext Ref | | Channel Power |
| BTS Ch Freq 1.98875 GHz | Averages: 9 | PASS |
| Mod Accuracy SR1 | | ACPR |
| | | Intermod |
| | | Spectrum Emission Mask |
| | | Occupied BW |
| | | More 1 of 2 |

| | |
|---|--|
| Rho: 0.99828 | I/Q Measured Polar Vector  |
| EVM: 4.14 % rms 13.29 % pk | |
| Pk CDE: -30.02 dB at W128(0) | |
| Magnitude Error: 2.48 % rms | |
| Phase Error: 1.90 ° rms | |
| Freq Error: 0.90 Hz | |
| I/Q Origin Offset: -47.00 dB | |
| Active Channels: 1 | |
| Time Offset: 0.08 µs | |
| Calculating EVM... | |

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Voltage= -43.2V

| | | | | |
|---|---------|-------------|--------------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.98875 GHz | Averages: 10 | PASS |
| Mod Accuracy | SR1 | | | |
| Rho: 0.99827 EVM: 4.15 % rms 13.29 % pk Pk CDE: -30.02 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.90 ° rms Freq Error: 0.53 Hz I/Q Origin Offset: -46.92 dB Active Channels: 1 Time Offset: 0.08 µs | | | | ACPR |
| I/Q Measured Polar Vector  | | | | Intermod |
| | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

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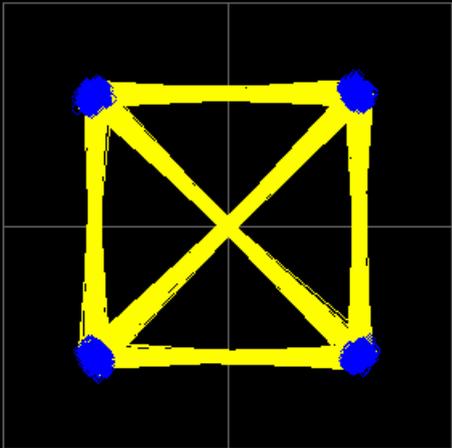
Voltage= -48V

| | | | | |
|------------------------------|-----|-------------|------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| BTS Ch Freq 1.98875 GHz | | Ext Ref | | Channel Power |
| Mod Accuracy | SR1 | Averages: 2 | PASS | ACPR |
| Rho: 0.99850 | | | | Intermod |
| EVM: 3.86 % rms | | | | Spectrum Emission Mask |
| 11.17 % pk | | | | |
| Pk CDE: | | | | Occupied BW |
| -34.27 dB at W128(0) | | | | |
| Magnitude Error: 2.48 % rms | | | | More 1 of 2 |
| Phase Error: 1.69 ° rms | | | | |
| Freq Error: -0.17 Hz | | | | |
| I/Q Origin Offset: -47.79 dB | | | | |
| Active Channels: 1 | | | | |
| Time Offset: 0.08 µs | | | | |
| Calculating EVM... | | | | |

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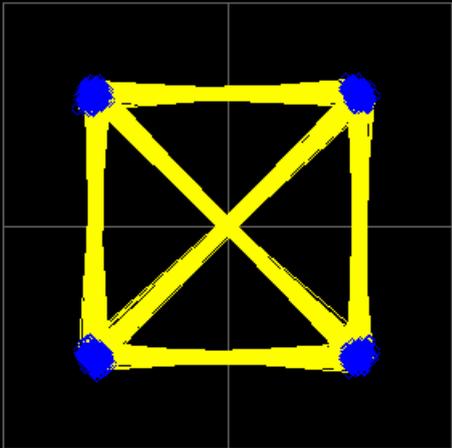
Voltage= -52.8V

| | | | | |
|--|---------|-------------|------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| | | Ext Ref | | Channel Power |
| BTS | Ch Freq | 1.98875 GHz | | ACPR |
| Mod Accuracy | SR1 | Averages: 3 | PASS | Intermod |
| Rho: 0.99843 EVM: 3.96 % rms 11.17 % pk Pk CDE: -33.88 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.76 ° rms Freq Error: -0.98 Hz I/Q Origin Offset: -47.37 dB Active Channels: 1 Time Offset: 0.08 µs | | | | Spectrum Emission Mask |
|  | | | | Occupied BW |
| Calculating EVM... | | | | More 1 of 2 |

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Voltage= -57.6V

| | | | | |
|---|---------|-------------|-------------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.98875 GHz | Averages: 4 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99842 EVM: 3.97 % rms 11.27 % pk Pk CDE: -33.88 dB at W128(0) Magnitude Error: 2.49 % rms Phase Error: 1.77 ° rms Freq Error: 0.22 Hz I/Q Origin Offset: -47.16 dB Active Channels: 1 Time Offset: 0.08 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

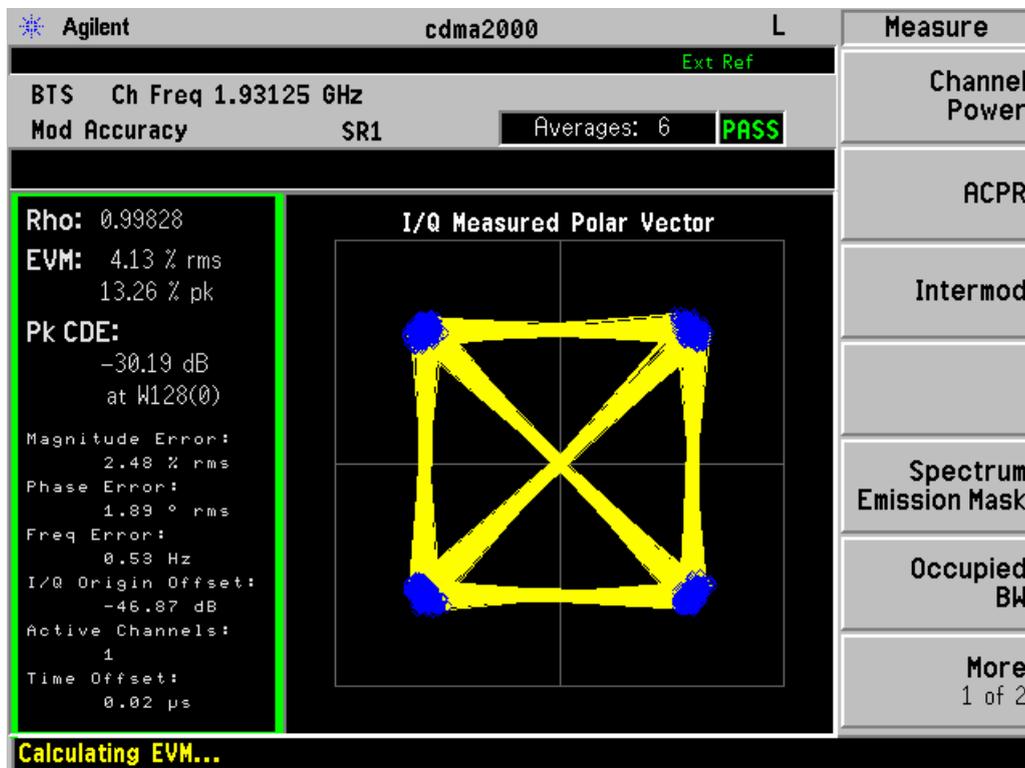
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Frequency Stability versus Temperature

TRX1: Channel No. 25(1931.25MHz)

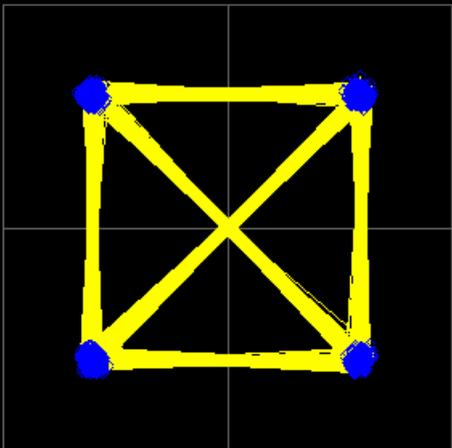
Temperature = - 30°C



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Temperature = - 20°C

| | | | | |
|---|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 7 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99834 EVM: 4.06 % rms 13.26 % pk Pk CDE: -30.19 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.83 ° rms Freq Error: 0.25 Hz I/Q Origin Offset: -46.84 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| Calculating EVM... | | | | More 1 of 2 |

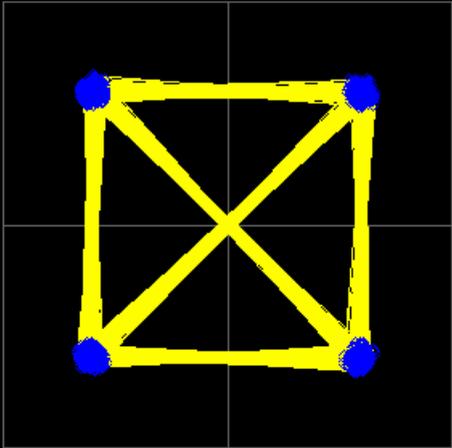
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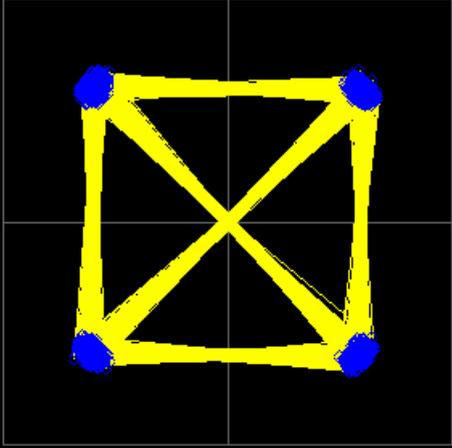
Temperature = - 10°C

| | | | | |
|---|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 8 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99836 EVM: 4.04 % rms 13.26 % pk Pk CDE: -30.19 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.82 ° rms Freq Error: 0.57 Hz I/Q Origin Offset: -46.81 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| Calculating EVM... | | | | Occupied BW |
| | | | | More 1 of 2 |

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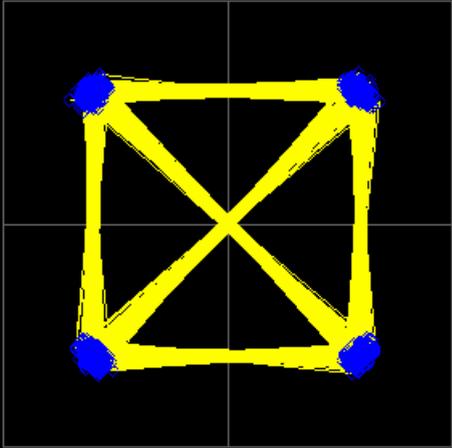
Temperature = 0°C

| | | | | |
|---|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 9 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99831 EVM: 4.10 % rms 13.26 % pk Pk CDE: -30.19 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.86 ° rms Freq Error: 0.49 Hz I/Q Origin Offset: -46.64 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| Calculating EVM... | | | | More 1 of 2 |

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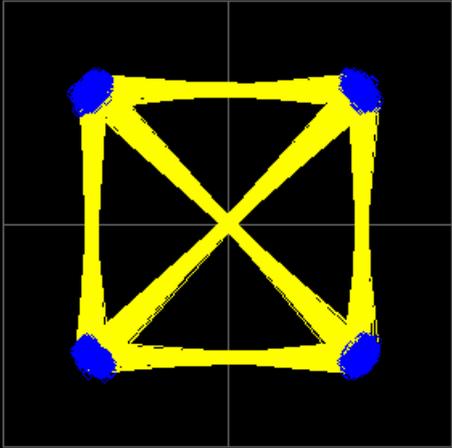
Temperature = 10°C

| | | | | |
|---|---------|--|------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| | | Ext Ref | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | | ACPR |
| Mod Accuracy | SR1 | Averages: 10 | PASS | Intermod |
| Rho: 0.99827 | |  | | Spectrum Emission Mask |
| EVM: 4.14 % rms 13.26 % pk | | | | Occupied BW |
| Pk CDE: -30.19 dB at W128(0) | | | | More 1 of 2 |
| Magnitude Error: 2.48 % rms | | | | |
| Phase Error: 1.89 ° rms | | | | |
| Freq Error: 0.39 Hz | | | | |
| I/Q Origin Offset: -46.57 dB | | | | |
| Active Channels: 1 | | | | |
| Time Offset: 0.02 µs | | | | |
| Calculating EVM... | | | | |

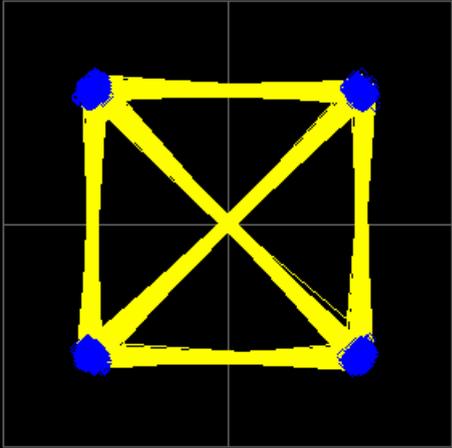
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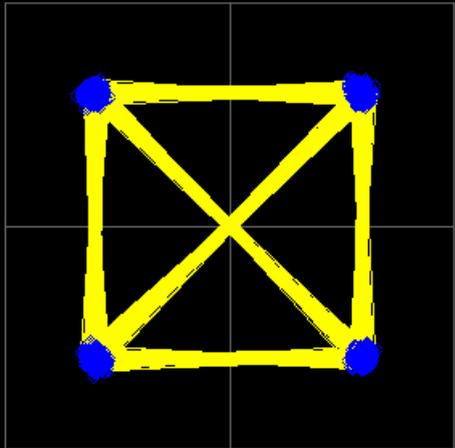
Temperature = 20°C

| | | | | |
|--|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 1 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99723 EVM: 5.27 % rms 13.18 % pk Pk CDE: -28.41 dB at W128(0) Magnitude Error: 2.50 % rms Phase Error: 2.66 ° rms Freq Error: -1.08 Hz I/Q Origin Offset: -47.51 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

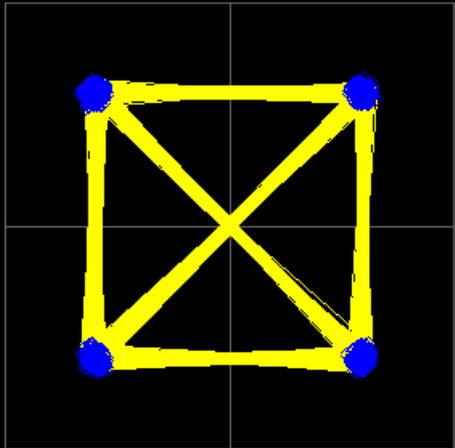
Temperature = 30°C

| | | | | |
|---|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 2 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99775 EVM: 4.71 % rms 13.18 % pk Pk CDE: -28.41 dB at W128(0) Magnitude Error: 2.49 % rms Phase Error: 2.29 ° rms Freq Error: 1.64 Hz I/Q Origin Offset: -46.96 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
| I/Q Measured Polar Vector  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

Temperature = 40°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 Averages: 3 PASS | | | | Channel Power |
| Rho: 0.99799 EVM: 4.45 % rms 13.18 % pk Pk CDE: -28.41 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 2.11 ° rms Freq Error: 1.54 Hz I/Q Origin Offset: -47.01 dB Active Channels: 1 Time Offset: 0.02 µs | | | | ACPR |
| I/Q Measured Polar Vector  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

Temperature = 50°C

| | | | | |
|---|---------|-------------|-------------|------------------------|
| * Agilent | | cdma2000 | L | Measure |
| Ext Ref | | | | Channel Power |
| BTS | Ch Freq | 1.93125 GHz | Averages: 4 | PASS |
| Mod Accuracy | SR1 | | | ACPR |
| Rho: 0.99814 EVM: 4.28 % rms 13.18 % pk Pk CDE: -28.41 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 1.99 ° rms Freq Error: 1.04 Hz I/Q Origin Offset: -46.79 dB Active Channels: 1 Time Offset: 0.02 µs | | | | Intermod |
|  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| Calculating EVM... | | | | More 1 of 2 |

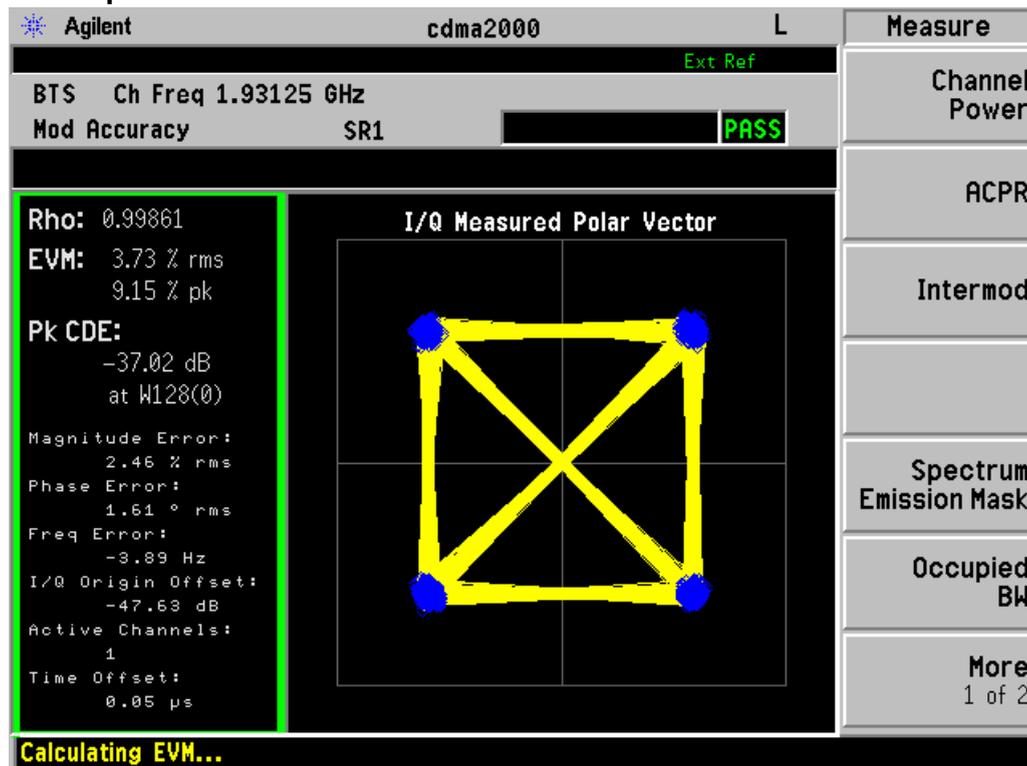
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Frequency Stability versus Temperature

TRX1: Channel No. 25(1931.25MHz)

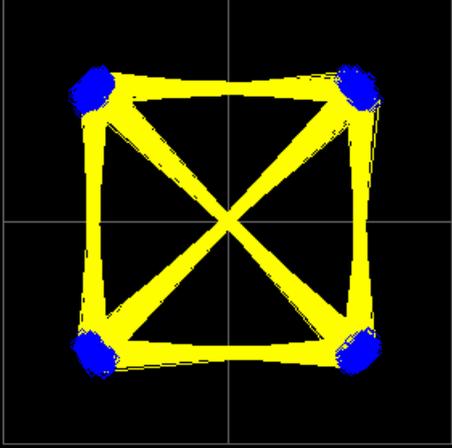
Temperature = - 30°C



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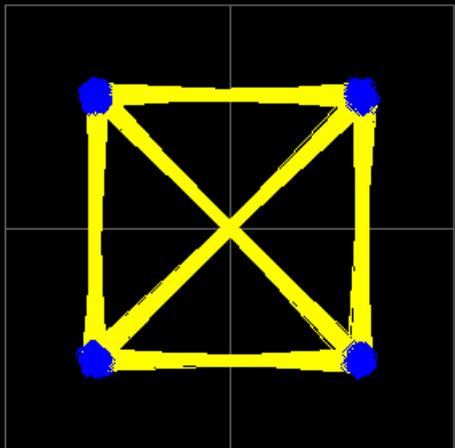
Temperature = - 20°C

| | | |
|---|--|------------------------|
| Agilent cdma2000 L | | Measure |
| Ext Ref BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 PASS | | Channel Power |
| Rho: 0.99716 EVM: 5.33 % rms 12.97 % pk Pk CDE: -27.97 dB at W128(0) Magnitude Error: 2.48 % rms Phase Error: 2.71 ° rms Freq Error: 1.01 Hz I/Q Origin Offset: -47.95 dB Active Channels: 1 Time Offset: 0.05 µs | | ACPR |
| I/Q Measured Polar Vector  | | Intermod |
| | | Spectrum Emission Mask |
| | | Occupied BW |
| | | More 1 of 2 |
| Calculating EVM... | | |

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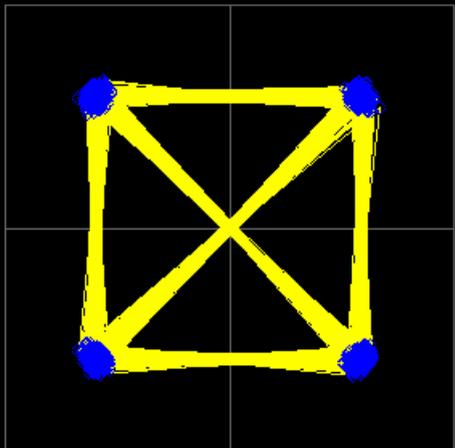
Temperature = - 10°C

| | | |
|--|--|------------------------|
| Agilent cdma2000 L | | Measure |
| Ext Ref BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 PASS | | Channel Power |
| Rho: 0.99866 EVM: 3.66 % rms 9.19 % pk Pk CDE: -40.22 dB at W128(0) Magnitude Error: 2.47 % rms Phase Error: 1.55 ° rms Freq Error: 3.52 Hz I/Q Origin Offset: -46.89 dB Active Channels: 1 Time Offset: 0.05 µs | | ACPR |
| I/Q Measured Polar Vector  | | Intermod |
| | | Spectrum Emission Mask |
| | | Occupied BW |
| | | More 1 of 2 |
| Calculating EVM... | | |

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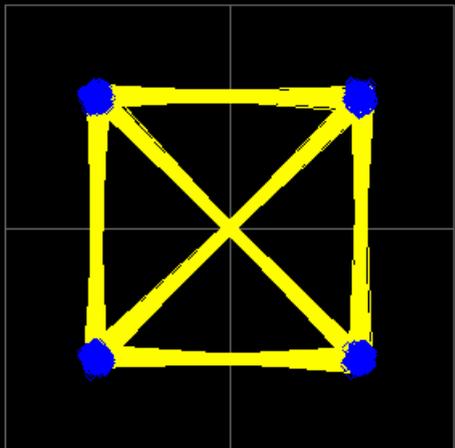
Temperature = 0°C

| Agilent | | cdma2000 | L | Measure |
|--|--|----------|---|------------------------|
| BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 PASS | | | | Channel Power |
| Rho: 0.99831 EVM: 4.12 % rms 11.77 % pk Pk CDE: -32.92 dB at W128(0) Magnitude Error: 2.47 % rms Phase Error: 1.89 ° rms Freq Error: -1.36 Hz I/Q Origin Offset: -46.36 dB Active Channels: 1 Time Offset: 0.05 µs | | | | ACPR |
|  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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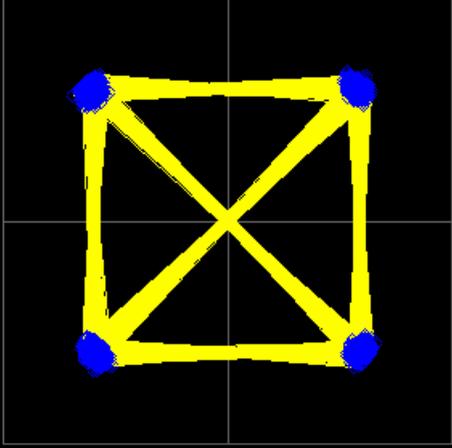
Temperature = 10°C

| | | |
|---|------|------------------------|
| Agilent cdma2000 L | | Measure |
| Ext Ref | | Channel Power |
| BTS Ch Freq 1.93125 GHz | | ACPR |
| Mod Accuracy SR1 | PASS | Intermod |
| Rho: 0.99867 EVM: 3.64 % rms 10.25 % pk Pk CDE: -39.25 dB at W128(0) Magnitude Error: 2.46 % rms Phase Error: 1.54 ° rms Freq Error: -1.81 Hz I/Q Origin Offset: -47.48 dB Active Channels: 1 Time Offset: -0.01 µs | | Spectrum Emission Mask |
|  | | Occupied BW |
| Calculating EVM... | | More 1 of 2 |

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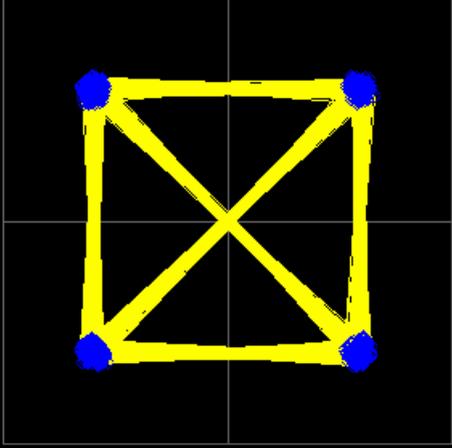
Temperature = 20°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| <p>Ext Ref</p> <p>BTS Ch Freq 1.93125 GHz</p> <p>Mod Accuracy SR1 PASS</p> | | | | Channel Power |
| <p>Rho: 0.99815</p> <p>EVM: 4.31 % rms 11.01 % pk</p> <p>Pk CDE: -33.70 dB at W128(0)</p> <p>Magnitude Error: 2.47 % rms</p> <p>Phase Error: 2.02 ° rms</p> <p>Freq Error: -1.51 Hz</p> <p>I/Q Origin Offset: -46.96 dB</p> <p>Active Channels: 1</p> <p>Time Offset: 0.05 µs</p> | | | | ACPR |
| <p>I/Q Measured Polar Vector</p>  | | | | Intermod |
| <p>Calculating EVM...</p> | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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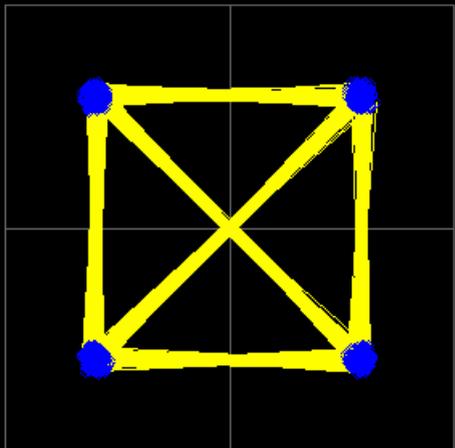
Temperature = 30°C

| | | |
|--|--|------------------------|
| Agilent cdma2000 L | | Measure |
| Ext Ref BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 PASS | | Channel Power |
| Rho: 0.99857 EVM: 3.79 % rms 10.54 % pk Pk CDE: -36.09 dB at W128(0) Magnitude Error: 2.46 % rms Phase Error: 1.65 ° rms Freq Error: -1.08 Hz I/Q Origin Offset: -45.99 dB Active Channels: 1 Time Offset: 0.05 µs | | ACPR |
| I/Q Measured Polar Vector  | | Intermod |
| | | Spectrum Emission Mask |
| | | Occupied BW |
| | | More 1 of 2 |
| Calculating EVM... | | |

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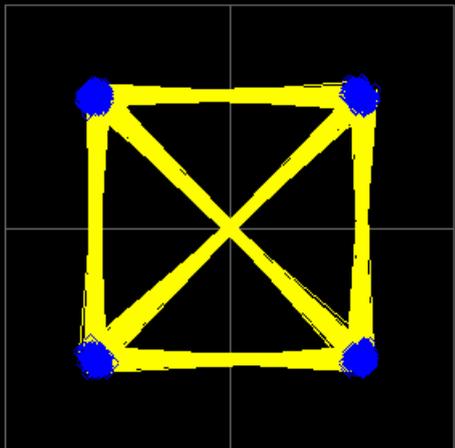
Temperature = 40°C

| | | | | |
|--|--|--|---------|---|
| Agilent | | cdma2000 | L | Measure |
| | | | Ext Ref | Channel Power |
| BTS Ch Freq 1.93125 GHz | | | | ACPR |
| Mod Accuracy SR1 | | PASS | | Intermod |
| Rho: 0.99870 EVM: 3.61 % rms 8.91 % pk Pk CDE: -40.75 dB at W128(0) Magnitude Error: 2.46 % rms Phase Error: 1.52 ° rms Freq Error: 4.07 Hz I/Q Origin Offset: -46.48 dB Active Channels: 1 Time Offset: 0.05 µs | | I/Q Measured Polar Vector  | | Spectrum Emission Mask Occupied BW More 1 of 2 |
| Calculating EVM... | | | | |

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Temperature = 50°C

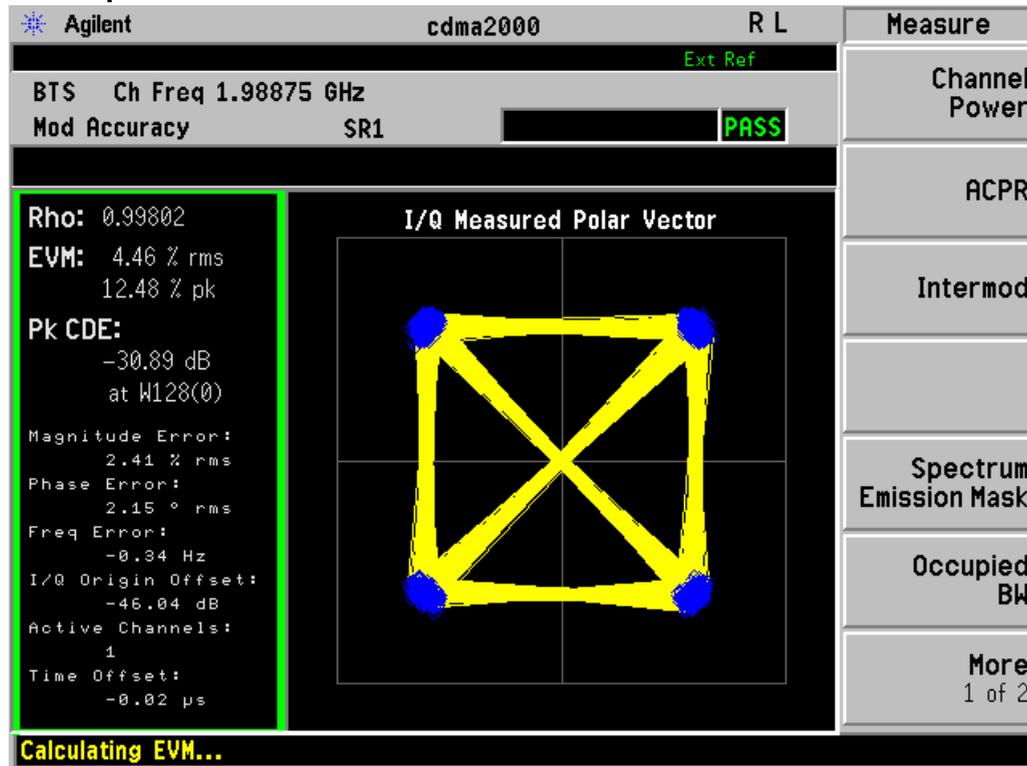
| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| BTS Ch Freq 1.93125 GHz Mod Accuracy SR1 PASS | | | | Channel Power |
| Rho: 0.99843 EVM: 3.97 % rms 10.60 % pk Pk CDE: -33.75 dB at W128(0) Magnitude Error: 2.46 % rms Phase Error: 1.78 ° rms Freq Error: 1.00 Hz I/Q Origin Offset: -46.14 dB Active Channels: 1 Time Offset: 0.05 µs | | | | ACPR |
|  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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Frequency Stability versus Temperature TRX1: Channel No. 1175(1988.75MHz)

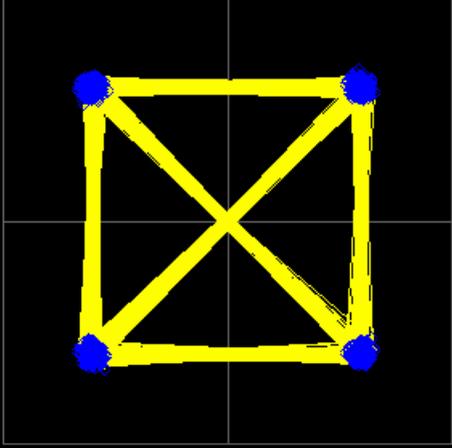
Temperature = - 30°C



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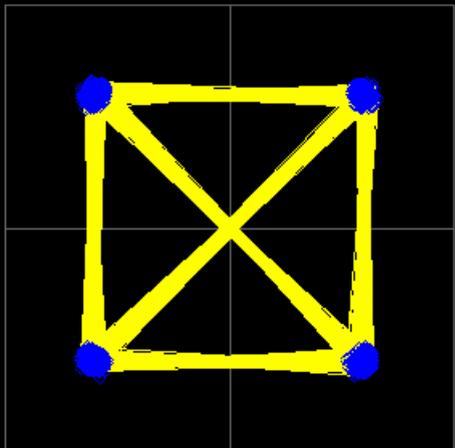
Temperature = - 20°C

| | | | | |
|--|---------|-------------|---------|------------------------|
| Agilent | | cdma2000 | L | Measure |
| | | | Ext Ref | Channel Power |
| BTS | Ch Freq | 1.98875 GHz | | |
| Mod Accuracy | SR1 | | PASS | ACPR |
| Rho: 0.99867 EVM: 3.66 % rms 9.60 % pk Pk CDE: -37.36 dB at W128(0) Magnitude Error: 2.42 % rms Phase Error: 1.57 ° rms Freq Error: -6.22 Hz I/Q Origin Offset: -46.76 dB Active Channels: 1 Time Offset: -0.02 µs | | | | Intermod |
|  | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Calculating EVM... | | | | |

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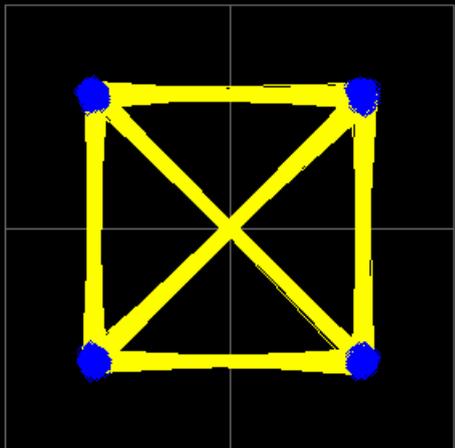
Temperature = - 10°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| <p>Ext Ref</p> <p>BTS Ch Freq 1.98875 GHz</p> <p>Mod Accuracy SR1 PASS</p> | | | | Channel Power |
| <p>Rho: 0.99852</p> <p>EVM: 3.85 % rms 9.82 % pk</p> <p>Pk CDE: -35.25 dB at W128(0)</p> <p>Magnitude Error: 2.41 % rms</p> <p>Phase Error: 1.72 ° rms</p> <p>Freq Error: -1.17 Hz</p> <p>I/Q Origin Offset: -46.36 dB</p> <p>Active Channels: 1</p> <p>Time Offset: -0.02 µs</p> | | | | ACPR |
| <p>I/Q Measured Polar Vector</p>  | | | | Intermod |
| | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |
| Initial timing correction... | | | | |

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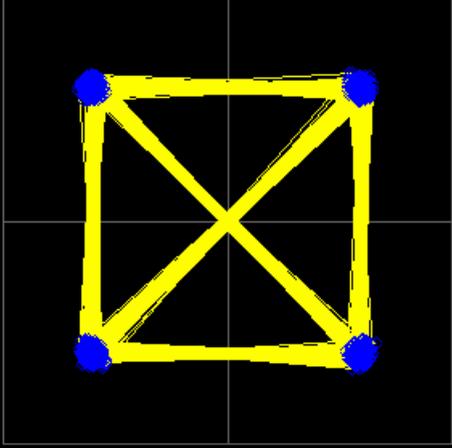
Temperature = 0°C

| Agilent | | cdma2000 | L | Measure |
|--|--|----------|---|------------------------|
| BTS Ch Freq 1.98875 GHz Mod Accuracy SR1 PASS | | | | Channel Power |
| Rho: 0.99873 EVM: 3.57 % rms 9.12 % pk Pk CDE: -38.50 dB at W128(0) Magnitude Error: 2.41 % rms Phase Error: 1.51 ° rms Freq Error: -3.34 Hz I/Q Origin Offset: -47.04 dB Active Channels: 1 Time Offset: -0.02 µs | | | | ACPR |
|  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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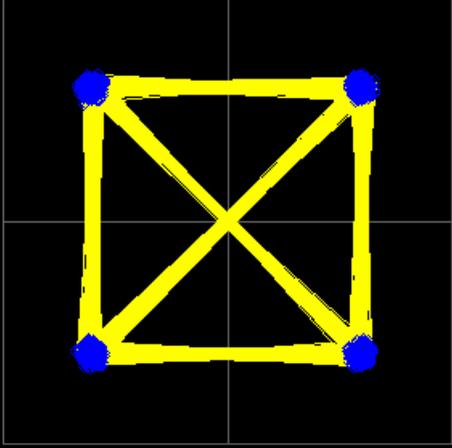
Temperature = 10°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| BTS Ch Freq 1.98875 GHz Mod Accuracy SR1 PASS | | | | Channel Power |
| Rho: 0.99867 EVM: 3.65 % rms 9.67 % pk Pk CDE: -37.36 dB at W128(0) Magnitude Error: 2.41 % rms Phase Error: 1.57 ° rms Freq Error: 2.12 Hz I/Q Origin Offset: -46.86 dB Active Channels: 1 Time Offset: -0.02 µs | | | | ACPR |
|  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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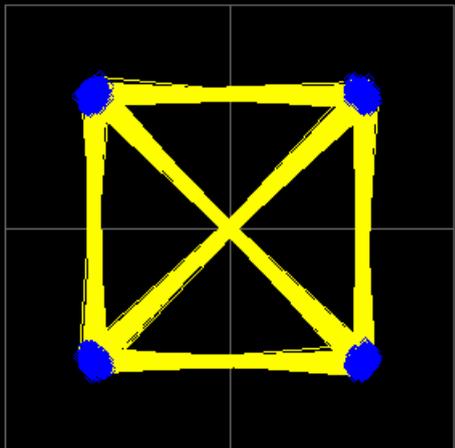
Temperature = 20°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| <p>Ext Ref</p> <p>BTS Ch Freq 1.98875 GHz</p> <p>Mod Accuracy SR1 PASS</p> | | | | Channel Power |
| <p>Rho: 0.99869</p> <p>EVM: 3.63 % rms 9.71 % pk</p> <p>Pk CDE: -37.50 dB at W128(0)</p> <p>Magnitude Error: 2.41 % rms</p> <p>Phase Error: 1.55 ° rms</p> <p>Freq Error: -0.24 Hz</p> <p>I/Q Origin Offset: -46.49 dB</p> <p>Active Channels: 1</p> <p>Time Offset: -0.02 µs</p> | | | | ACPR |
| <p>I/Q Measured Polar Vector</p>  | | | | Intermod |
| <p>Calculating EVM...</p> | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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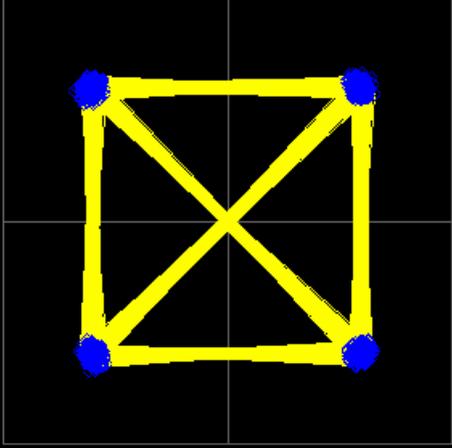
Temperature = 30°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| BTS Ch Freq 1.98875 GHz Mod Accuracy SR1 PASS | | | | Channel Power |
| Rho: 0.99821 EVM: 4.24 % rms 10.04 % pk Pk CDE: -31.93 dB at W128(0) Magnitude Error: 2.42 % rms Phase Error: 2.00 ° rms Freq Error: -3.08 Hz I/Q Origin Offset: -48.15 dB Active Channels: 1 Time Offset: -0.02 µs | | | | ACPR |
|  | | | | Intermod |
| Calculating EVM... | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |

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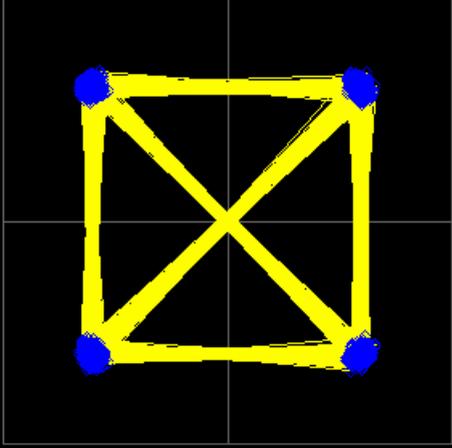
Temperature = 40°C

| | | |
|--|--|------------------------|
| Agilent cdma2000 L | | Measure |
| Ext Ref BTS Ch Freq 1.98875 GHz Mod Accuracy SR1 PASS | | Channel Power |
| Rho: 0.99855 EVM: 3.81 % rms 9.26 % pk Pk CDE: -37.01 dB at W128(0) Magnitude Error: 2.42 % rms Phase Error: 1.69 ° rms Freq Error: -2.01 Hz I/Q Origin Offset: -46.76 dB Active Channels: 1 Time Offset: -0.02 µs | | ACPR |
| I/Q Measured Polar Vector  | | Intermod |
| Calculating EVM... | | Spectrum Emission Mask |
| | | Occupied BW |
| | | More 1 of 2 |

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Temperature = 50°C

| Agilent | | cdma2000 | L | Measure |
|---|--|----------|---|------------------------|
| <p>Ext Ref</p> <p>BTS Ch Freq 1.98875 GHz</p> <p>Mod Accuracy SR1 PASS</p> | | | | Channel Power |
| <p>Rho: 0.99844</p> <p>EVM: 3.95 % rms 10.41 % pk</p> <p>Pk CDE: -33.80 dB at W128(0)</p> <p>Magnitude Error: 2.41 % rms</p> <p>Phase Error: 1.80 ° rms</p> <p>Freq Error: 1.24 Hz</p> <p>I/Q Origin Offset: -48.21 dB</p> <p>Active Channels: 1</p> <p>Time Offset: -0.02 µs</p> | | | | ACPR |
| <p>I/Q Measured Polar Vector</p>  | | | | Intermod |
| <p>Calculating EVM...</p> | | | | Spectrum Emission Mask |
| | | | | Occupied BW |
| | | | | More 1 of 2 |