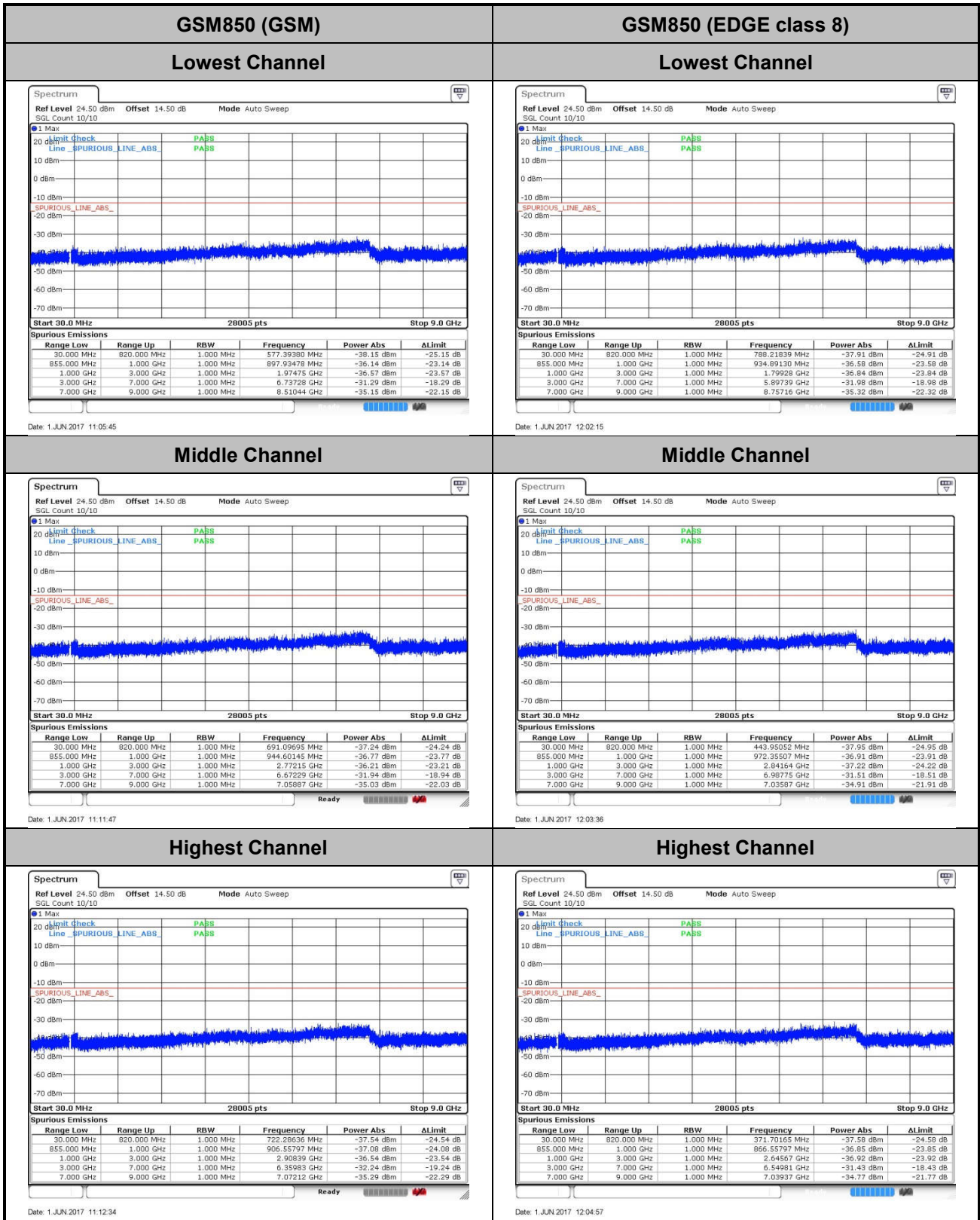




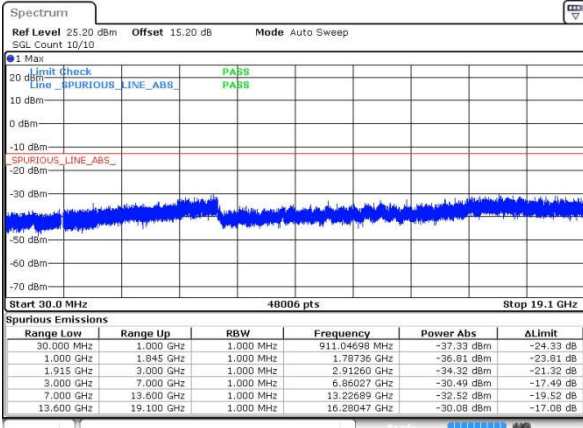
Conducted Spurious Emission





GSM1900 (GSM)

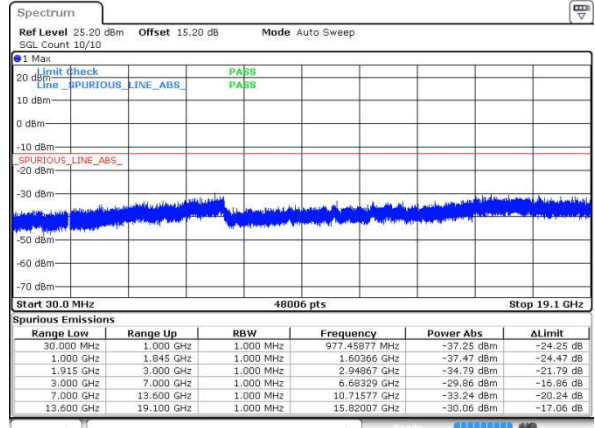
Lowest Channel



Date: 1 JUN 2017 14:04:08

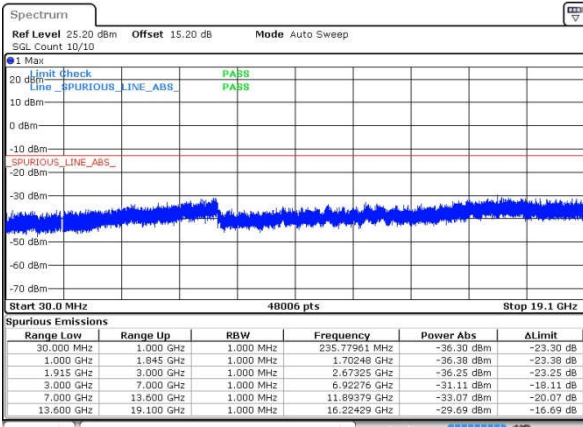
GSM1900 (EDGE class 8)

Lowest Channel



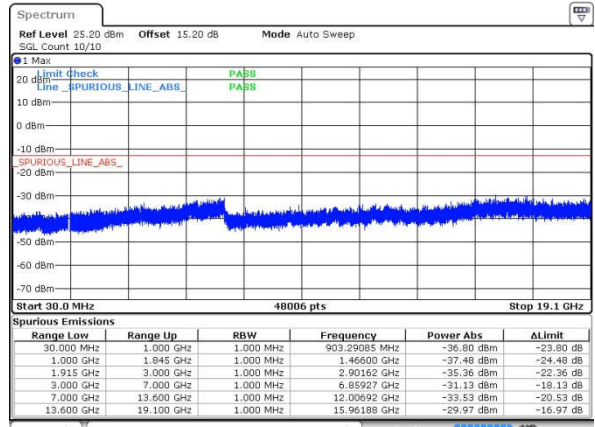
Date: 1 JUN 2017 14:23:58

Middle Channel



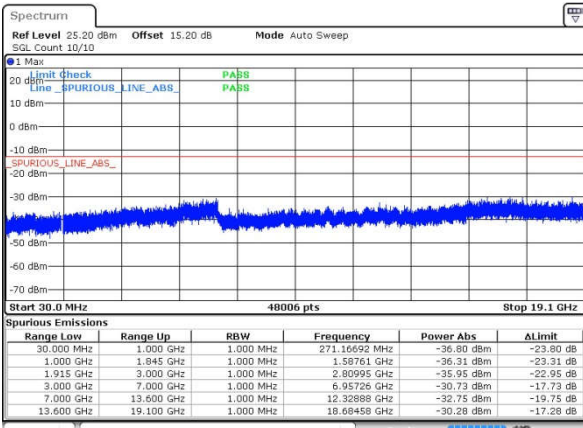
Date: 1 JUN 2017 14:05:32

Middle Channel



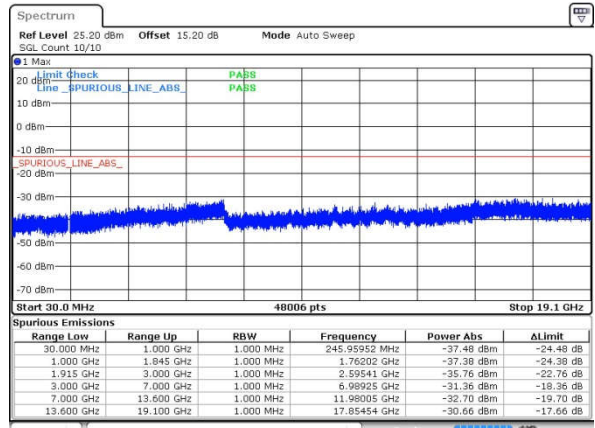
Date: 1 JUN 2017 14:25:18

Highest Channel



Date: 1 JUN 2017 14:06:55

Highest Channel

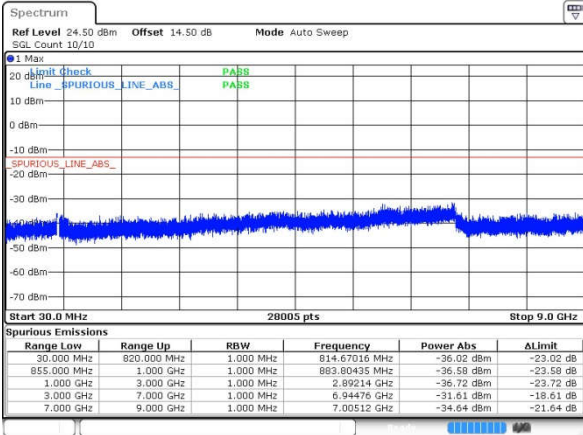


Date: 1 JUN 2017 14:27:39



WCDMA Band V (RMC 12.2Kbps)

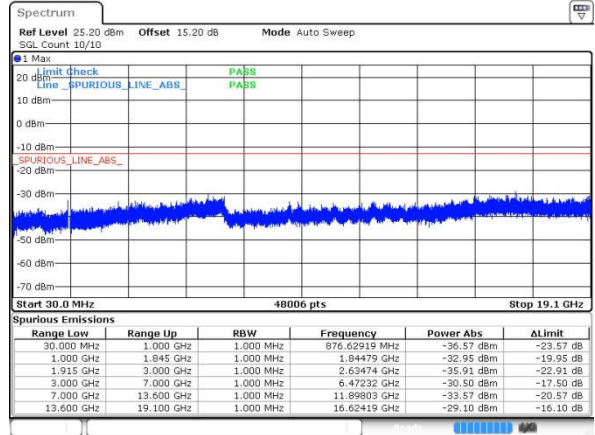
Lowest Channel



Date: 1 JUN 2017 14:47:02

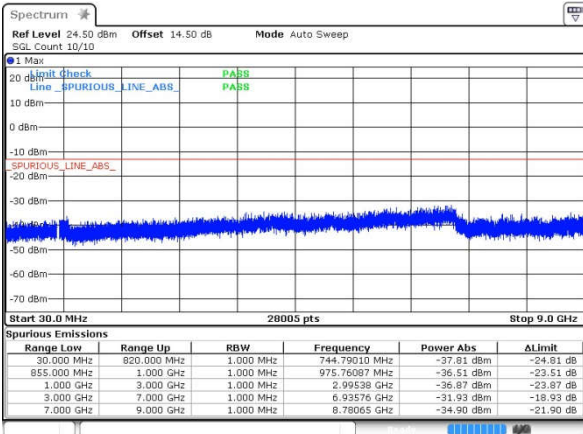
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



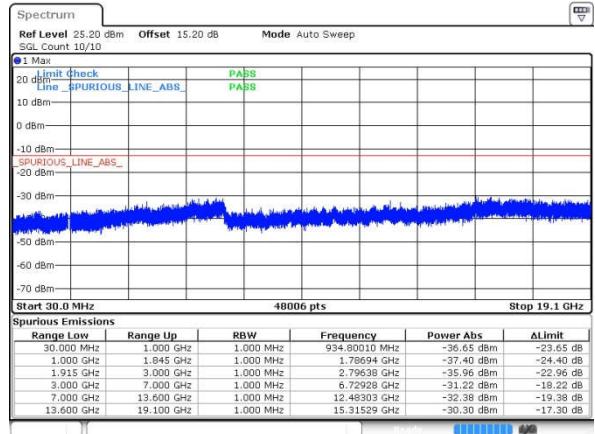
Date: 1 JUN 2017 15:25:01

Middle Channel



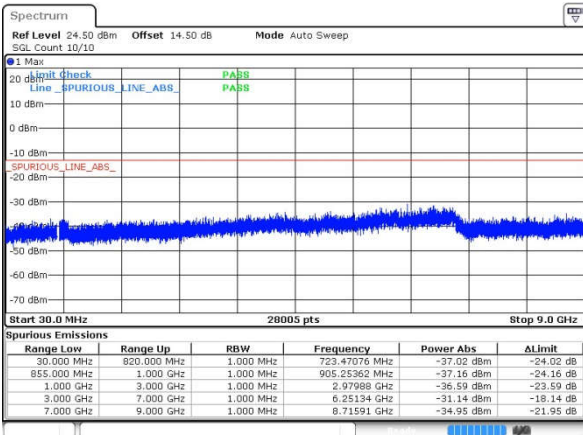
Date: 1 JUN 2017 14:48:30

Middle Channel



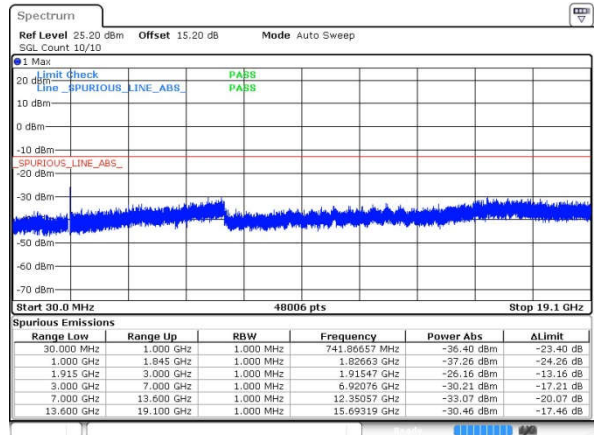
Date: 1 JUN 2017 15:26:30

Highest Channel



Date: 1 JUN 2017 14:50:00

Highest Channel

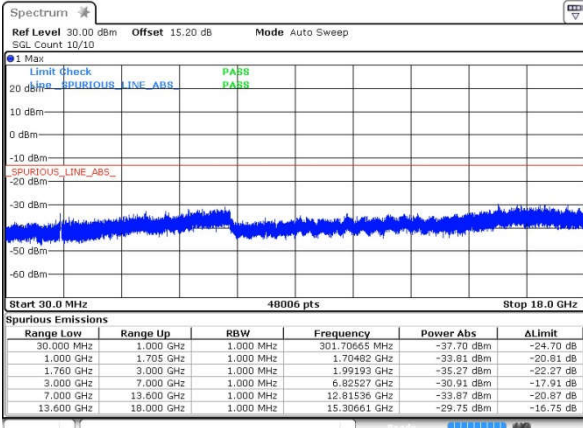


Date: 1 JUN 2017 15:27:53



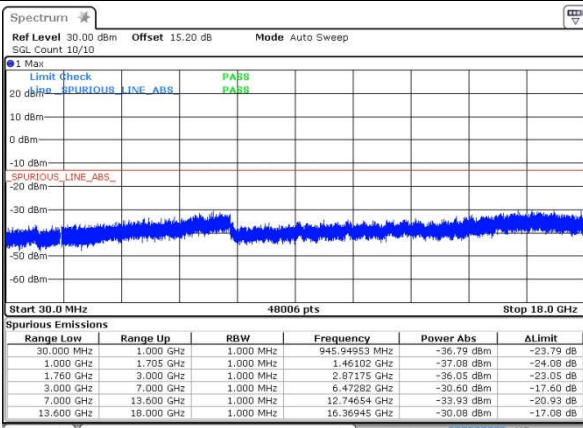
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



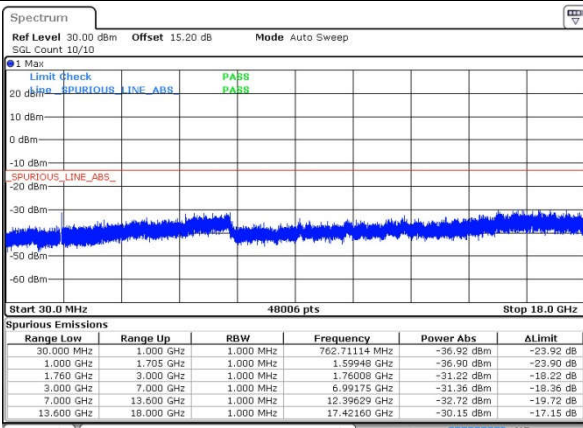
Date: 1 JUN 2017 15:07:20

Middle Channel



Date: 1 JUN 2017 15:08:42

Highest Channel



Date: 1 JUN 2017 15:10:04



Frequency Stability

| Test Conditions | Middle Channel | GSM850 (GSM) | GSM850 (EDGE class 8) | Limit 2.5ppm |
|------------------|-------------------|-----------------|-----------------------|--------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0048 | 0.0012 | PASS |
| 40 | Normal Voltage | 0.0060 | 0.0036 | |
| 30 | Normal Voltage | 0.0024 | 0.0060 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0036 | 0.0036 | |
| 0 | Normal Voltage | 0.0012 | 0.0108 | |
| -10 | Normal Voltage | 0.0072 | 0.0096 | |
| -20 | Normal Voltage | 0.0024 | 0.0072 | |
| -30 | Normal Voltage | 0.0036 | 0.0132 | |
| 20 | Maximum Voltage | 0.0132 | 0.0024 | |
| 20 | Normal Voltage | 0.0072 | 0.0155 | |
| 20 | Battery End Point | 0.0167 | 0.0143 | |

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.4 V

| Test Conditions | Middle Channel | GSM1900 (GSM) | GSM1900 (EDGE class 8) | Limit Note 2. |
|------------------|-------------------|-----------------|------------------------|---------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0117 | 0.0037 | PASS |
| 40 | Normal Voltage | 0.0106 | 0.0112 | |
| 30 | Normal Voltage | 0.0128 | 0.0011 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0048 | 0.0037 | |
| 0 | Normal Voltage | 0.0037 | 0.0005 | |
| -10 | Normal Voltage | 0.0021 | 0.0011 | |
| -20 | Normal Voltage | 0.0032 | 0.0027 | |
| -30 | Normal Voltage | 0.0085 | 0.0096 | |
| 20 | Maximum Voltage | 0.0011 | 0.0021 | |
| 20 | Normal Voltage | 0.0133 | 0.0090 | |
| 20 | Battery End Point | 0.0080 | 0.0170 | |

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions | Middle Channel | WCDMA Band V (RMC 12.2Kbps) | Limit 2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0143 | PASS |
| 40 | Normal Voltage | 0.0096 | |
| 30 | Normal Voltage | 0.0072 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0060 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0275 | |
| -20 | Normal Voltage | 0.0311 | |
| -30 | Normal Voltage | 0.0024 | |
| 20 | Maximum Voltage | 0.0347 | |
| 20 | Normal Voltage | 0.0263 | |
| 20 | Battery End Point | 0.0251 | |

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.4 V

| Test Conditions | Middle Channel | WCDMA Band II (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0048 | PASS |
| 40 | Normal Voltage | 0.0011 | |
| 30 | Normal Voltage | 0.0037 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0021 | |
| 0 | Normal Voltage | 0.0027 | |
| -10 | Normal Voltage | 0.0059 | |
| -20 | Normal Voltage | 0.0069 | |
| -30 | Normal Voltage | 0.0085 | |
| 20 | Maximum Voltage | 0.0032 | |
| 20 | Normal Voltage | 0.0016 | |
| 20 | Battery End Point | 0.0080 | |

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions | Middle Channel | WCDMA Band IV (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0087 | PASS |
| 40 | Normal Voltage | 0.0069 | |
| 30 | Normal Voltage | 0.0023 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0006 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0098 | |
| -20 | Normal Voltage | 0.0121 | |
| -30 | Normal Voltage | 0.0046 | |
| 20 | Maximum Voltage | 0.0110 | |
| 20 | Normal Voltage | 0.0012 | |
| 20 | Battery End Point | 0.0092 | |

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.45V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| GSM850 (GSM) | | | | | | | | | |
|--------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1672 | -53.62 | -13 | -40.62 | -53.37 | -55.48 | 1.19 | 5.20 | H |
| | 2508 | -41.65 | -13 | -28.65 | -47.65 | -43.87 | 1.53 | 5.90 | H |
| | 3345 | -68.09 | -13 | -55.09 | -72.04 | -70.88 | 1.76 | 6.70 | H |
| | 1672 | -58.01 | -13 | -45.01 | -55.97 | -59.87 | 1.19 | 5.20 | V |
| | 2508 | -43.90 | -13 | -30.90 | -48.8 | -46.12 | 1.53 | 5.90 | V |
| | 3345 | -68.34 | -13 | -55.34 | -71.66 | -71.13 | 1.76 | 6.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| GSM850 (EDGE class 8) | | | | | | | | | |
|-----------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1672 | -61.66 | -13 | -48.66 | -60.29 | -63.52 | 1.19 | 5.20 | H |
| | 2508 | -49.81 | -13 | -36.81 | -53.86 | -52.03 | 1.53 | 5.90 | H |
| | 3345 | -67.64 | -13 | -54.64 | -71.59 | -70.43 | 1.76 | 6.70 | H |
| | 1672 | -65.30 | -13 | -52.30 | -63.26 | -67.16 | 1.19 | 5.20 | V |
| | 2508 | -57.78 | -13 | -44.78 | -59.76 | -60.00 | 1.53 | 5.90 | V |
| | 3345 | -68.25 | -13 | -55.25 | -71.57 | -71.04 | 1.76 | 6.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| GSM1900 (GSM) | | | | | | | | | |
|---------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3759 | -61.12 | -13 | -48.12 | -64.63 | -66.11 | 1.88 | 6.87 | H |
| | 5640 | -55.12 | -13 | -42.12 | -63.31 | -62.42 | 2.38 | 9.68 | H |
| | 7520 | -62.12 | -13 | -49.12 | -74.15 | -71.19 | 2.74 | 11.81 | H |
| | 3759 | -62.07 | -13 | -49.07 | -65.86 | -67.06 | 1.88 | 6.87 | V |
| | 5640 | -58.75 | -13 | -45.75 | -67.32 | -66.05 | 2.38 | 9.68 | V |
| | 7520 | -63.87 | -13 | -50.87 | -74.58 | -72.94 | 2.74 | 11.81 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| GSM1900 (EDGE class 8) | | | | | | | | | |
|------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3759 | -66.62 | -13 | -53.62 | -70.13 | -71.61 | 1.88 | 6.87 | H |
| | 5640 | -59.71 | -13 | -46.71 | -67.90 | -67.01 | 2.38 | 9.68 | H |
| | 7520 | -63.07 | -13 | -50.07 | -75.10 | -72.14 | 2.74 | 11.81 | H |
| | 3759 | -67.98 | -13 | -54.98 | -71.77 | -72.97 | 1.88 | 6.87 | V |
| | 5640 | -62.22 | -13 | -49.22 | -70.79 | -69.52 | 2.38 | 9.68 | V |
| | 7520 | -64.13 | -13 | -51.13 | -74.84 | -73.20 | 2.74 | 11.81 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| WCDMA Band V(RMC 12.2Kbps) | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1672 | -67.04 | -13 | -54.04 | -65.67 | -68.90 | 1.19 | 5.20 | H |
| | 2510 | -62.53 | -13 | -49.53 | -65.52 | -64.75 | 1.53 | 5.90 | H |
| | 3345 | -68.01 | -13 | -55.01 | -71.96 | -70.80 | 1.76 | 6.70 | H |
| | 1672 | -68.71 | -13 | -55.71 | -66.67 | -70.57 | 1.19 | 5.20 | V |
| | 2510 | -63.83 | -13 | -50.83 | -65.81 | -66.05 | 1.53 | 5.90 | V |
| | 3345 | -68.50 | -13 | -55.50 | -71.82 | -71.29 | 1.76 | 6.70 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| WCDMA Band II(RMC 12.2Kbps) | | | | | | | | | |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3759 | -67.61 | -13 | -54.61 | -71.12 | -72.60 | 1.88 | 6.87 | H |
| | 5640 | -65.00 | -13 | -52.00 | -73.19 | -72.30 | 2.38 | 9.68 | H |
| | 7520 | -61.44 | -13 | -48.44 | -73.47 | -70.51 | 2.74 | 11.81 | H |
| | 3759 | -67.32 | -13 | -54.32 | -71.11 | -72.31 | 1.88 | 6.87 | V |
| | 5640 | -64.93 | -13 | -51.93 | -73.5 | -72.23 | 2.38 | 9.68 | V |
| | 7520 | -63.26 | -13 | -50.26 | -73.97 | -72.33 | 2.74 | 11.81 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| WCDMA Band IV(RMC 12.2Kbps) | | | | | | | | | |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 3465 | -64.87 | -13 | -51.87 | -71.66 | -69.76 | 1.81 | 6.70 | H |
| | 5199 | -60.23 | -13 | -47.23 | -72.91 | -67.13 | 2.23 | 9.13 | H |
| | 6930 | -59.65 | -13 | -46.65 | -74.83 | -67.71 | 2.60 | 10.66 | H |
| | 3465 | -65.91 | -13 | -52.91 | -71.11 | -70.80 | 1.81 | 6.70 | V |
| | 5199 | -59.34 | -13 | -46.34 | -72.89 | -66.24 | 2.23 | 9.13 | V |
| | 6930 | -58.33 | -13 | -45.33 | -73.38 | -66.39 | 2.6 | 10.66 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.