



Appendix B

Test Report for SZEM1609008050RG



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Part 1 – RF Conducted Power of Transmitter for GSM850

| TEST CONDITIONS | RF Output Power(Conducted) | | | | | |
|----------------------|----------------------------|-------------|----------------|-------------|---------------|-------------|
| | Channel128(L) | | Channel190(M) | | Channel251(H) | |
| | 824.2MHz | | 836.6 MHz | | 848.8 MHz | |
| Tnom/ Vnom | Measured (dBm) | Limit (dBm) | Measured (dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) |
| GSM/(GPRS) | 32.31 | 38.5 | 32.38 | 38.5 | 32.37 | 38.5 |
| GSM/ (EGPRS) | 27.00 | 38.5 | 27.05 | 38.5 | 27.10 | 38.5 |
| GSM/TM1 (4slot GPRS) | 30.57 | 38.5 | 30.62 | 38.5 | 30.61 | 38.5 |

Part 2– Effective Radiated Power of Transmitter (ERP) for GSM850

| Test Mode | Freq. (MHz) | Meas. Level (dBm) | Substitution Antenna Type | SGP (dBm) | Substitution Gain(dBd) | Cable Loss (dB) | Substitution Level(ERP) / dBm | Limit (dBm) | Result |
|-----------------|-------------|-------------------|---------------------------|-----------|------------------------|-----------------|-------------------------------|-------------|--------|
| GSM/TM1 (GPRS) | 824.2 | 33.71 | Dipole | 37.88 | -4.90 | 0.6 | 32.26 | 38.5 | Pass |
| GSM/TM1 (GPRS) | 836.6 | 33.78 | Dipole | 37.91 | -5.02 | 0.6 | 32.31 | 38.5 | Pass |
| GSM/TM1 (GPRS) | 848.8 | 33.77 | Dipole | 37.79 | -5.00 | 0.6 | 32.29 | 38.5 | Pass |
| GSM/TM2 (EGPRS) | 824.2 | 28.40 | Dipole | 32.67 | -4.90 | 0.6 | 27.05 | 38.5 | Pass |
| GSM/TM2 (EGPRS) | 836.6 | 28.45 | Dipole | 32.72 | -5.02 | 0.6 | 27.12 | 38.5 | Pass |
| GSM/TM2 (EGPRS) | 848.8 | 28.50 | Dipole | 27.70 | -5.00 | 0.6 | 27.10 | 38.5 | Pass |

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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Part 3 – RF Conducted Power of Transmitter for GSM1900

| TEST CONDITIONS | RF Output Power(Conducted) | | | | | |
|----------------------|----------------------------|-------------|----------------|-------------|---------------|-------------|
| | Channel512(L) | | Channel661(M) | | Channel810(H) | |
| | 1850.2MHz | | 1880.0 MHz | | 1909.8 MHz | |
| Tnom/ Vnom | Measured (dBm) | Limit (dBm) | Measured (dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) |
| GSM/TM1 (GPRS) | 29.34 | 33 | 29.41 | 33 | 29.49 | 33 |
| GSM/TM2 (EGPRS) | 25.00 | 33 | 25.21 | 33 | 25.28 | 33 |
| GSM/TM1 (4slot GPRS) | 27.42 | 33 | 27.46 | 33 | 27.48 | 33 |

Part 4– Effective Isotropic Radiated Power of Transmitter (EIRP) for GSM1900

| Test Mode | Freq. (MHz) | Meas. Level (dBm) | Substitution Antenna Type | SGP (dBm) | Substitution Gain(dBd) | Cable Loss (dB) | Substitution Level(EIRP) / dBm | Limit (dBm) | Result |
|-----------------|-------------|-------------------|---------------------------|-----------|------------------------|-----------------|---------------------------------|-------------|--------|
| GSM/TM1 (GPRS) | 1850.2 | 30.69 | Dipole | 34.75 | -4.90 | 0.6 | 29.25 | 33 | Pass |
| GSM/TM1 (GPRS) | 1880 | 30.76 | Dipole | 34.67 | -5.02 | 0.6 | 29.05 | 33 | Pass |
| GSM/TM1 (GPRS) | 1909.8 | 30.84 | Dipole | 34.77 | -5.00 | 0.6 | 29.17 | 33 | Pass |
| GSM/TM2 (EGPRS) | 1850.2 | 26.35 | Dipole | 30.52 | -4.90 | 0.6 | 25.02 | 33 | Pass |
| GSM/TM2 (EGPRS) | 1880 | 26.56 | Dipole | 30.73 | -5.02 | 0.6 | 25.11 | 33 | Pass |
| GSM/TM2 (EGPRS) | 1909.8 | 26.63 | Dipole | 30.73 | -5.00 | 0.6 | 25.13 | 33 | Pass |

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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Part 5 – RF Conducted Power of Transmitter for WCDMA BAND 5

| TEST CONDITIONS | RF Output Power(Conducted) | | | | | |
|-----------------|----------------------------|-------------|------------------|-------------|-----------------|-------------|
| | Channel 4132(L) | | Channel 4183 (M) | | Channel 4233(H) | |
| | 826.4MHz | | 836.6MHz | | 846.6MHz | |
| Tnom/ Vnom | Measured(dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) |
| WCDMA | 23.10 | 38.5 | 23.87 | 38.5 | 23.35 | 38.5 |
| HSDPA | 22.32 | 38.5 | 23.08 | 38.5 | 22.49 | 38.5 |
| HSUPA | 22.38 | 38.5 | 23.04 | 38.5 | 22.44 | 38.5 |

Part 6– Effective Radiated Power of Transmitter (ERP) for WCDMA BAND 5

| Test Mode | Freq. (MHz) | Meas. Level (dBm) | Substitution Antenna Type | SGP (dBm) | Substitution Gain(dBd) | Cable Loss (dB) | Substitution Level(ERP) / dBm | Limit (dBm) | Result |
|-----------|-------------|-------------------|---------------------------|-----------|------------------------|-----------------|-------------------------------|-------------|--------|
| HSDPA | 826.4 | 23.72 | Dipole | 27.95 | -4.90 | 0.6 | 22.45 | 38.5 | Pass |
| HSDPA | 836.6 | 24.48 | Dipole | 28.63 | -5.02 | 0.6 | 23.01 | 38.5 | Pass |
| HSDPA | 846.6 | 23.89 | Dipole | 28.12 | -5.00 | 0.6 | 22.52 | 38.5 | Pass |
| HSUPA | 826.4 | 23.78 | Dipole | 27.94 | -4.90 | 0.6 | 22.44 | 38.5 | Pass |
| HSUPA | 836.6 | 24.44 | Dipole | 28.60 | -5.02 | 0.6 | 22.98 | 38.5 | Pass |
| HSUPA | 846.6 | 23.84 | Dipole | 27.70 | -5.00 | 0.6 | 22.10 | 38.5 | Pass |

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



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Part 7 – RF Conducted Power of Transmitter for WCDMA BAND 2

| TEST CONDITIONS | RF Output Power(Conducted) | | | | | |
|-----------------|----------------------------|-------------|------------------|-------------|-----------------|-------------|
| | Channel 9262(L) | | Channel 9400 (M) | | Channel 9538(H) | |
| | 1852.4MHz | | 1880.0MHz | | 1907.6MHz | |
| Tnom/ Vnom | Measured(dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) | Measured(dBm) | Limit (dBm) |
| WCDMA | 2315 | 33 | 22.74 | 33 | 23.96 | 33 |
| HSDPA | 22.46 | 33 | 22.01 | 33 | 22.15 | 33 |
| HSUPA | 22.44 | 33 | 22.04 | 33 | 22.27 | 33 |

Part 8– Effective Radiated Power of Transmitter (ERP) for WCDMA BAND 2

| Test Mode | Freq. (MHz) | Meas. Level (dBm) | Substitution Antenna Type | SGP (dBm) | Substitution Gain(dBd) | Cable Loss (dB) | Substitution Level(ERP) / dBm | Limit (dBm) | Result |
|-----------|-------------|-------------------|---------------------------|-----------|------------------------|-----------------|-------------------------------|--------------|--------|
| HSDPA | 1852.4 | 23.81 | Dipole | 27.87 | -5.02 | 0.6 | 22.25 | 33 | Pass |
| HSDPA | 1880.0 | 23.36 | Dipole | 27.67 | -5.02 | 0.6 | 22.05 | 33 | Pass |
| HSDPA | 1907.6 | 23.50 | Dipole | 27.74 | -5.02 | 0.6 | 22.12 | 33 | Pass |
| HSUPA | 1852.4 | 23.79 | Dipole | 27.77 | -5.00 | 0.6 | 22.17 | 33 | Pass |
| HSUPA | 1880.0 | 23.39 | Dipole | 27.84 | -5.00 | 0.6 | 22.24 | 33 | Pass |
| HSUPA | 1907.6 | 23.62 | Dipole | 27.89 | -5.00 | 0.6 | 22.29 | 33 | Pass |

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| GSM850 | TM1 | LCH | 6.41 | 13 | PASS |
| | | MCH | 6.46 | 13 | PASS |
| | | HCH | 6.43 | 13 | PASS |
| | TM2 | LCH | 9.25 | 13 | PASS |
| | | MCH | 8.99 | 13 | PASS |
| | | HCH | 5.88 | 13 | PASS |

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| GSM1900 | TM1 | LCH | 9.30 | 13 | PASS |
| | | MCH | 9.07 | 13 | PASS |
| | | HCH | 9.36 | 13 | PASS |
| | TM2 | LCH | 9.57 | 13 | PASS |
| | | MCH | 9.07 | 13 | PASS |
| | | HCH | 9.10 | 13 | PASS |

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| WCDMA850 | TM1 | LCH | 4.70 | 13 | PASS |
| | | MCH | 4.14 | 13 | PASS |
| | | HCH | 4.14 | 13 | PASS |

| Test Band | Test Mode | Test Channel | Measured[dB] | Limit [dB] | Verdict |
|-----------|-----------|--------------|--------------|------------|---------|
| WCDMA1900 | TM1 | LCH | 5.01 | 13 | PASS |
| | | MCH | 4.03 | 13 | PASS |
| | | HCH | 3.77 | 13 | PASS |



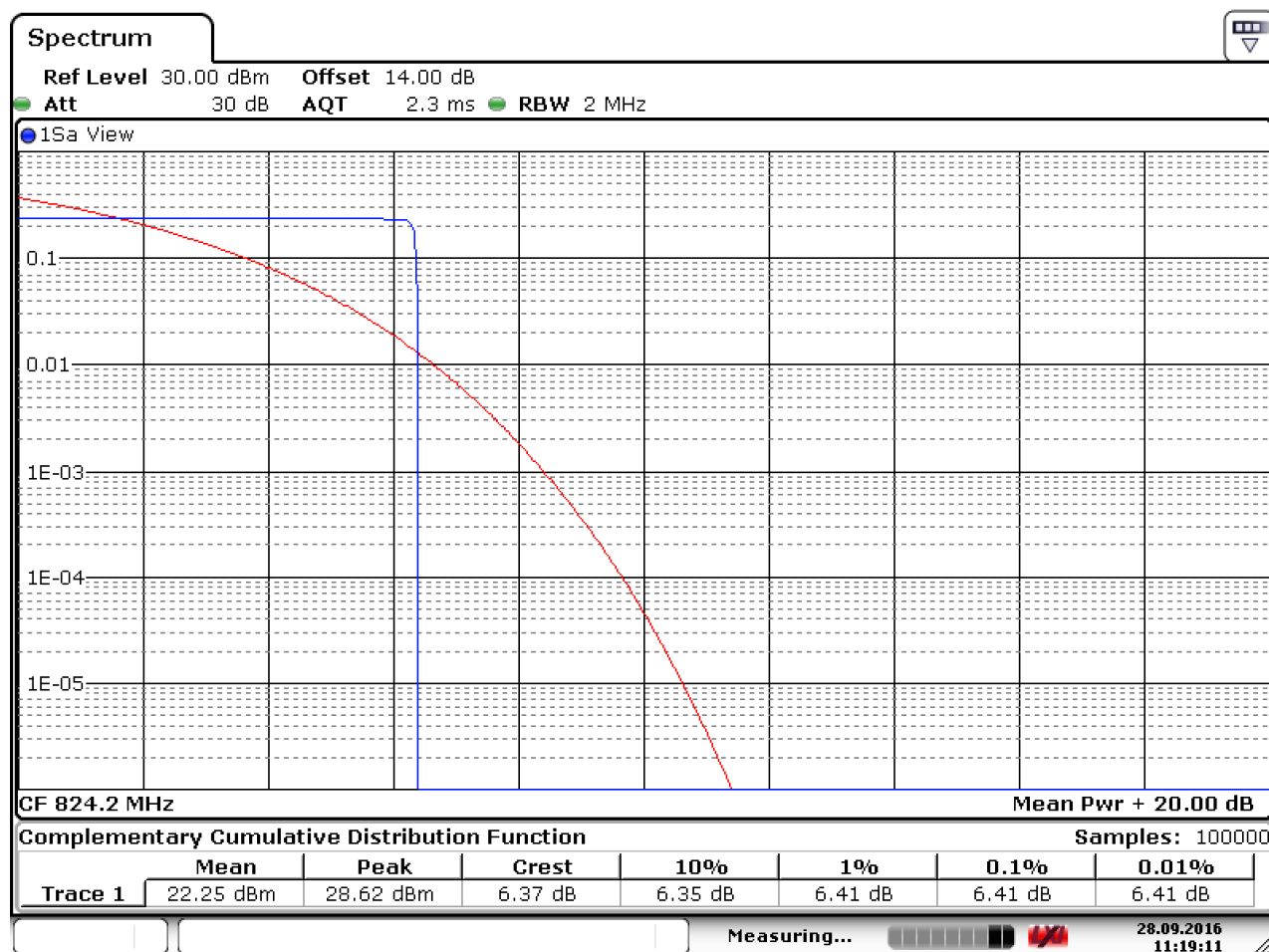
Part II - Test Plots

2.1 For GSM

2.1.1 Test Band = GSM850

2.1.1.1 Test Mode = GSM/TM1

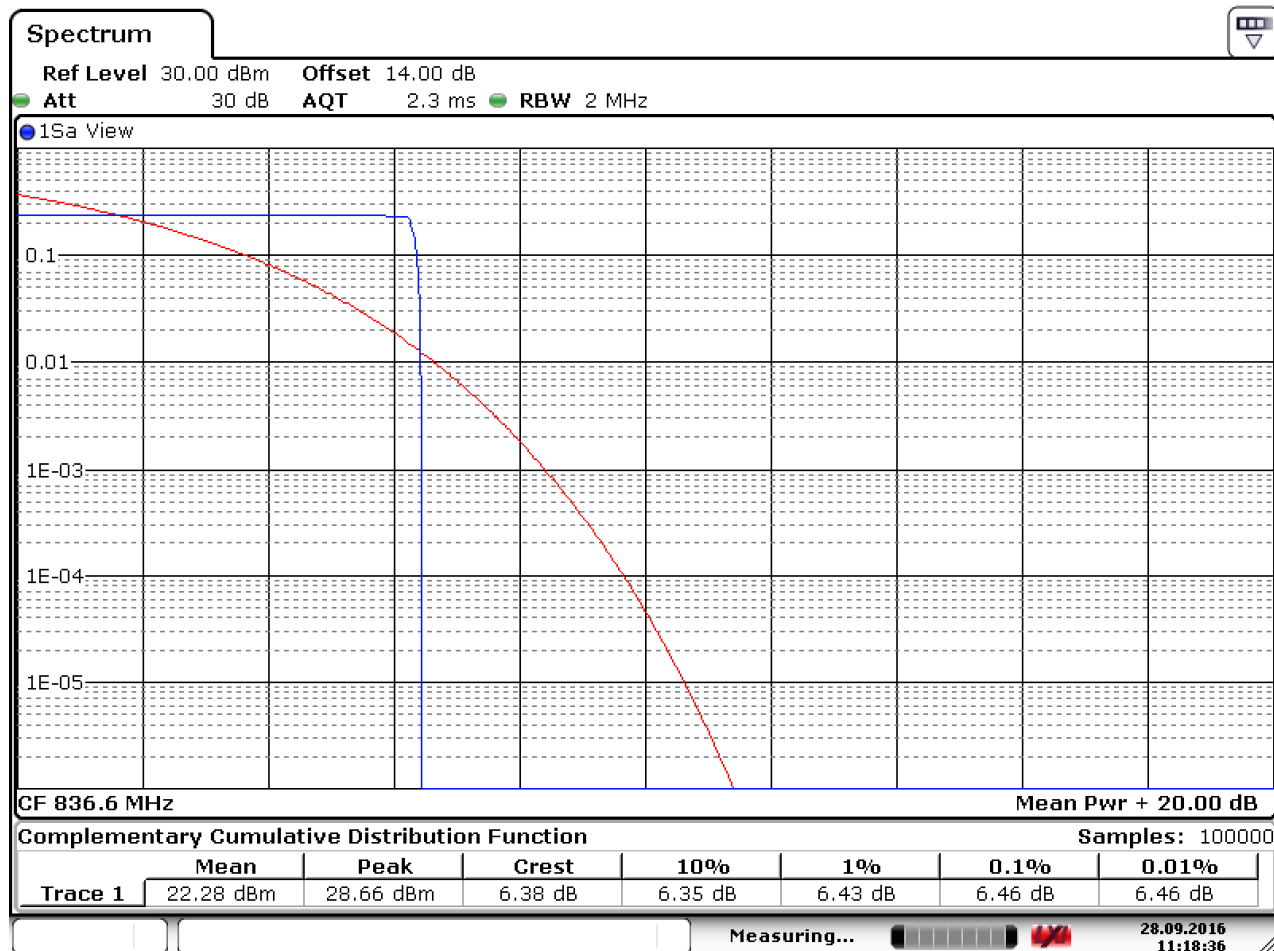
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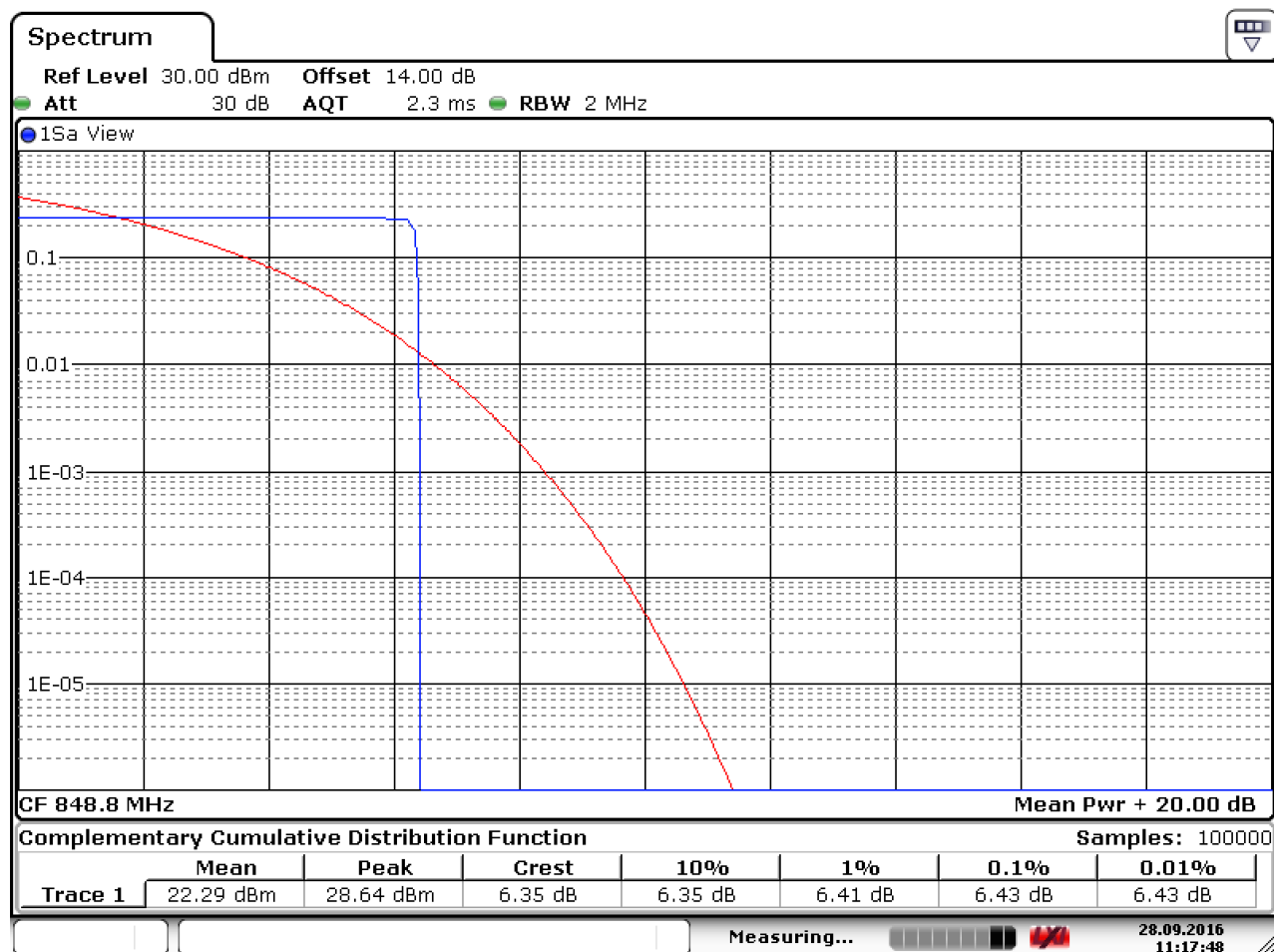
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2.1.1.1.3 Test Channel = HCH

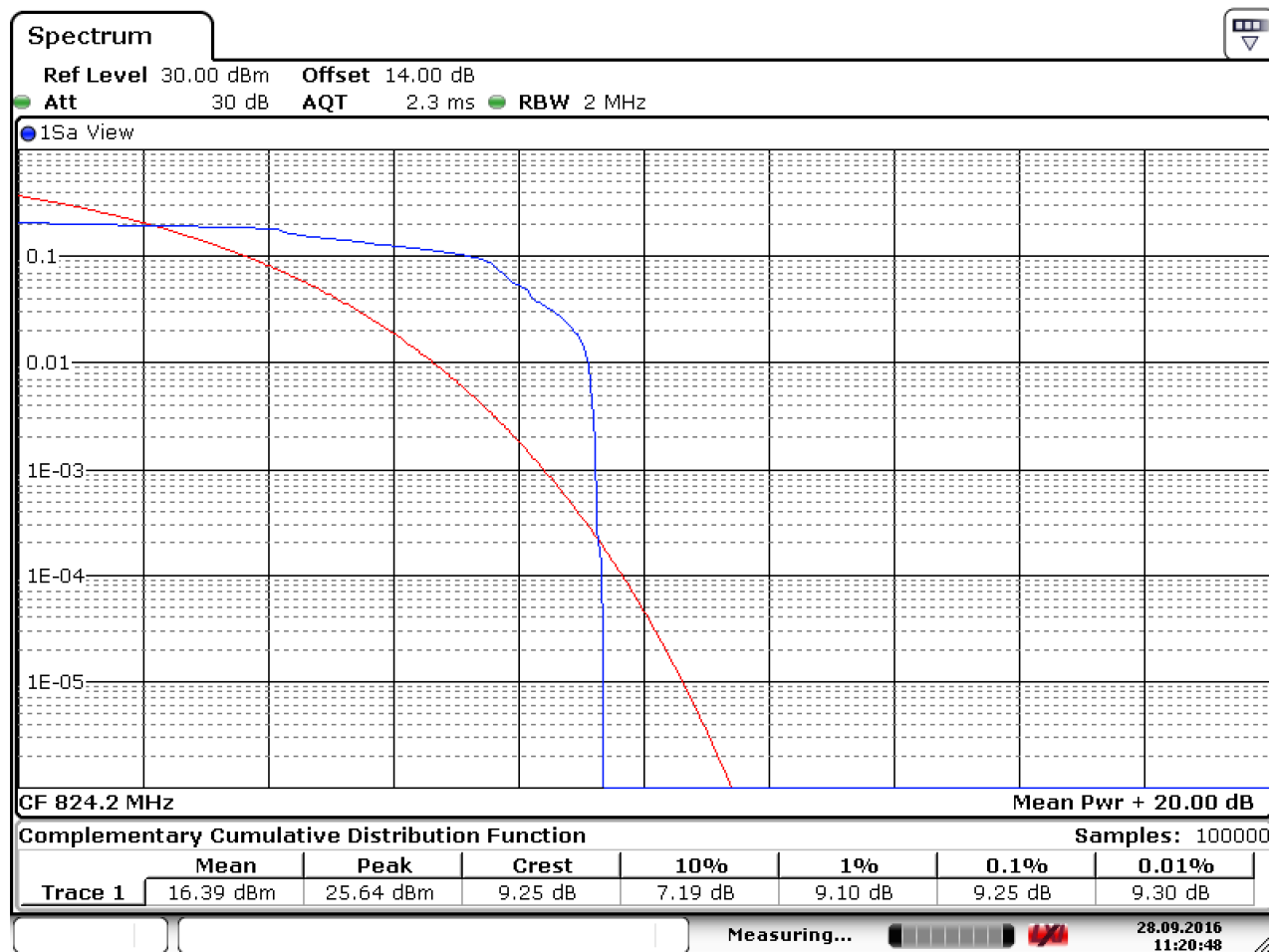


Date: 28.SEP.2016 11:17:48



2.1.1.2 Test Mode = GSM/TM2

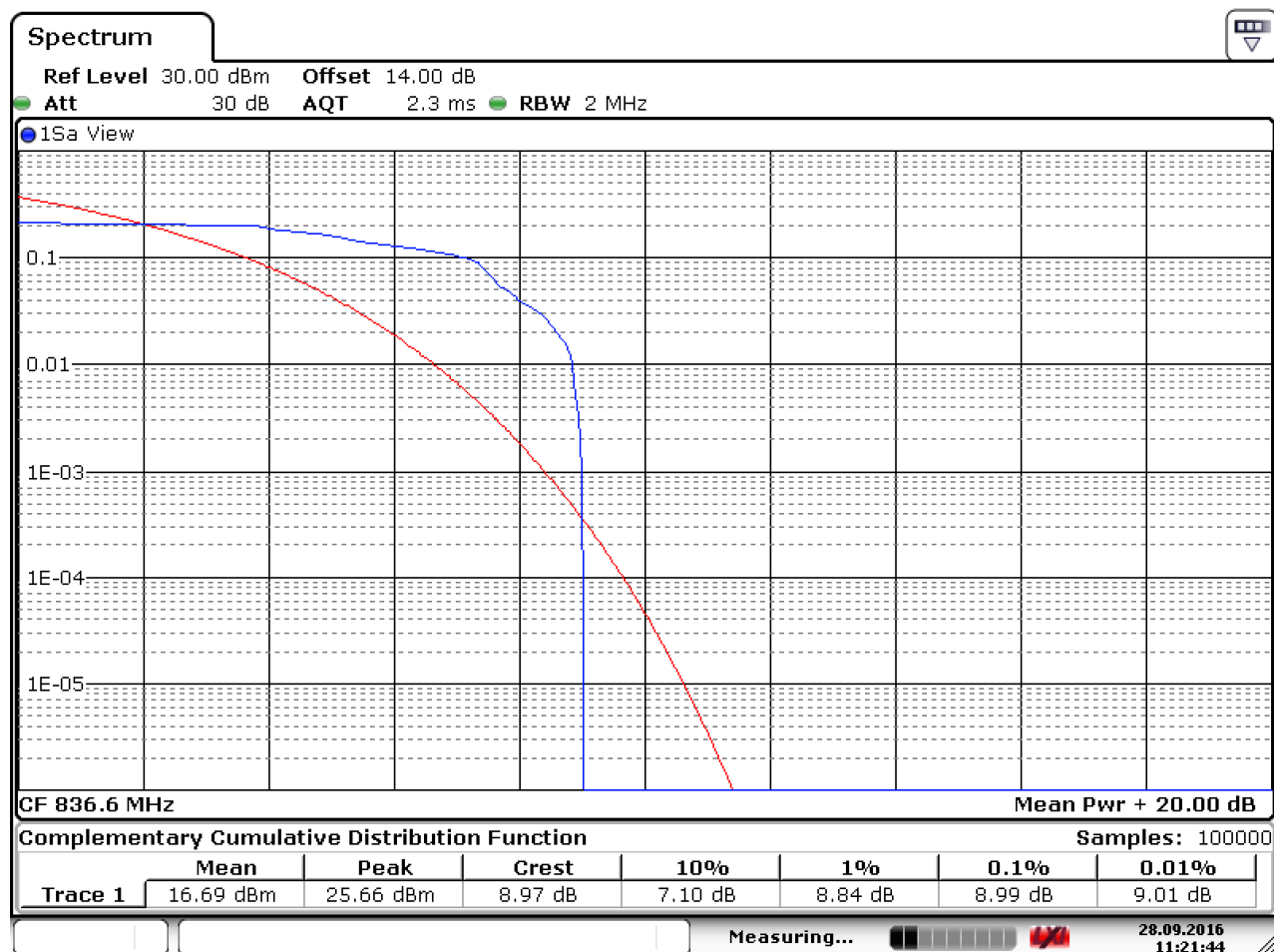
2.1.1.2.1 Test Channel = LCH



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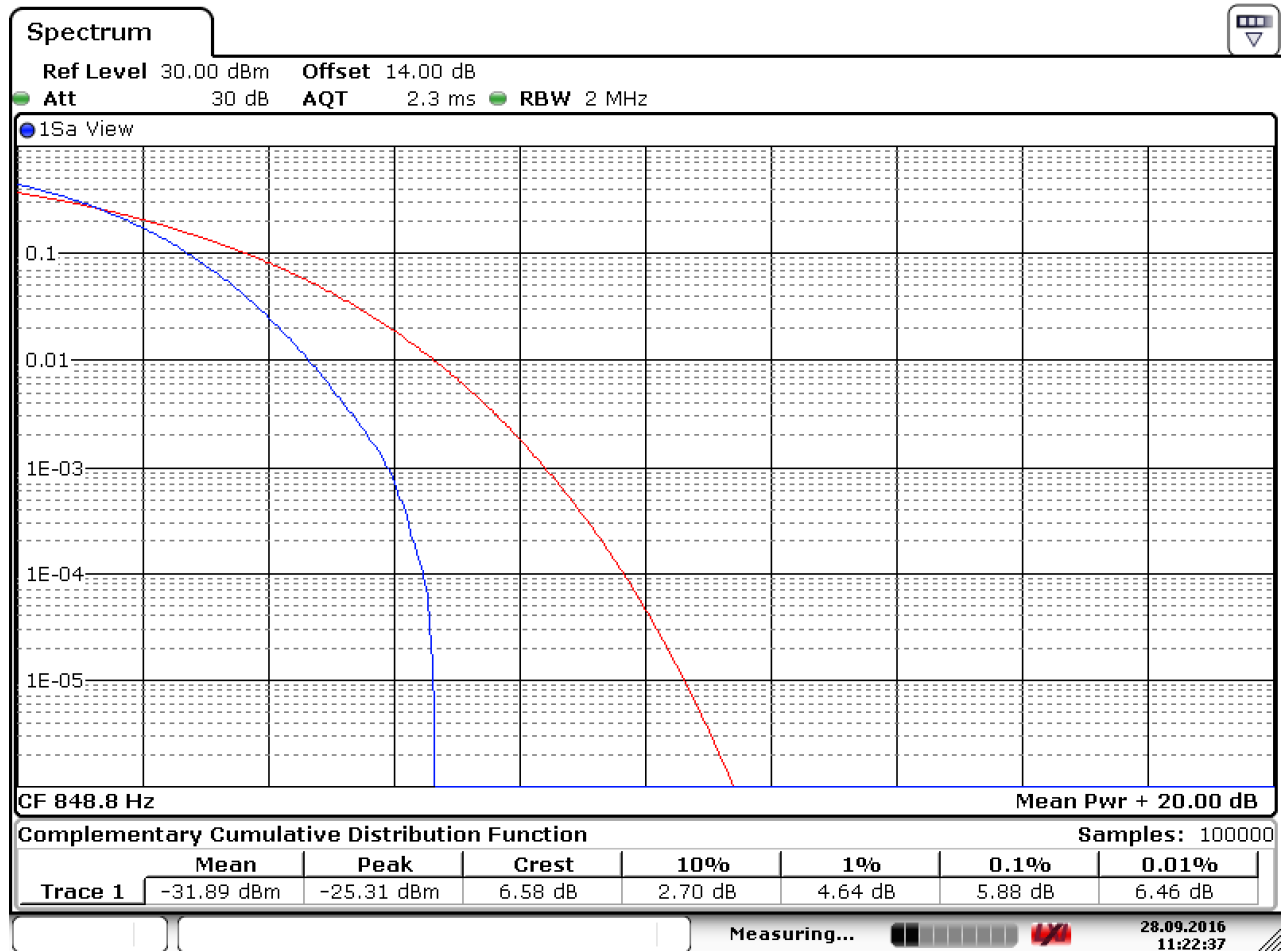
2.1.1.2.2 Test Channel = MCH



Date: 28.SEP.2016 11:21:44



2.1.1.2.3 Test Channel = HCH



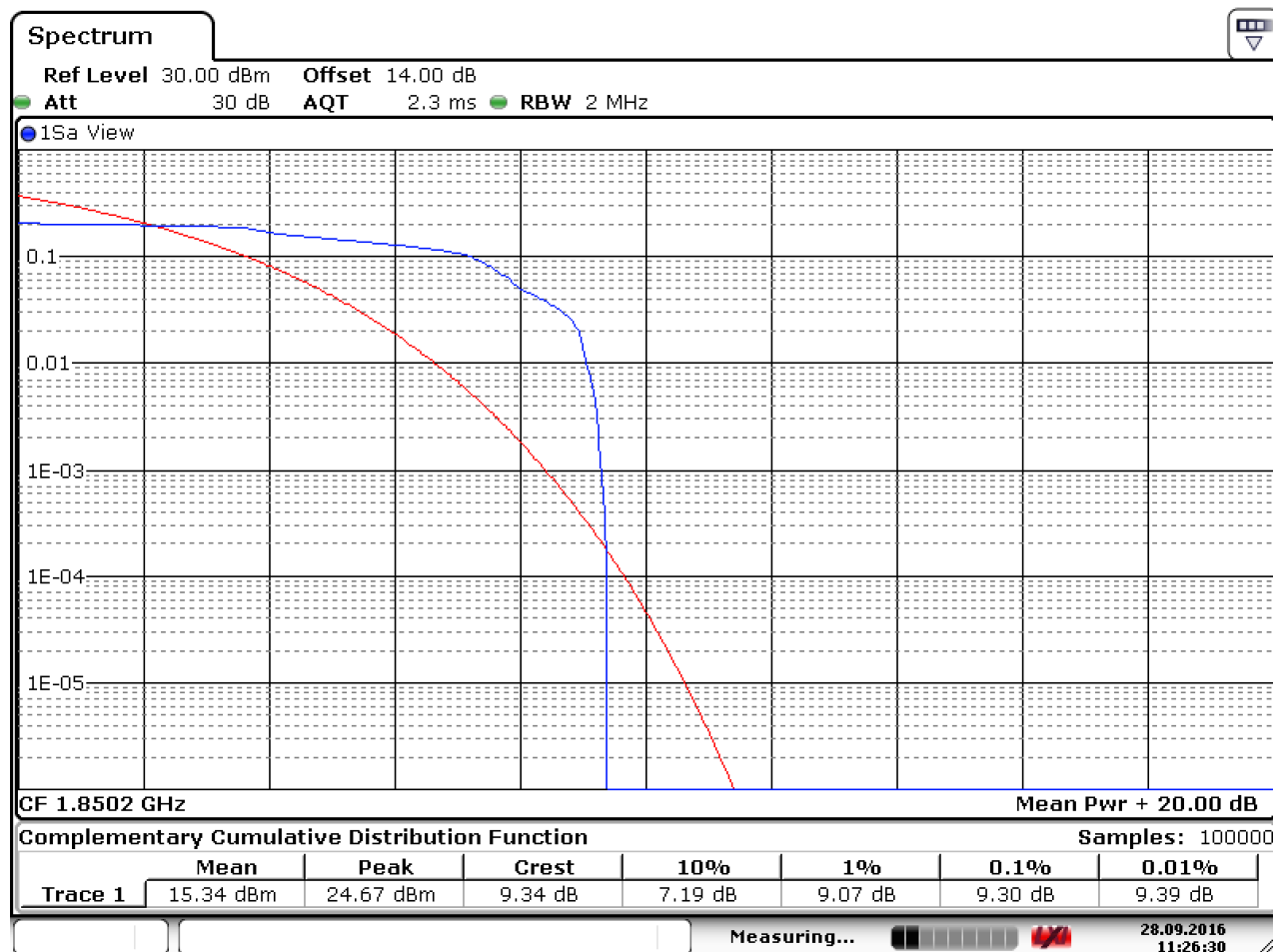
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2.1.2 Test Band = GSM1900

2.1.2.1 Test Mode = GSM/TM1

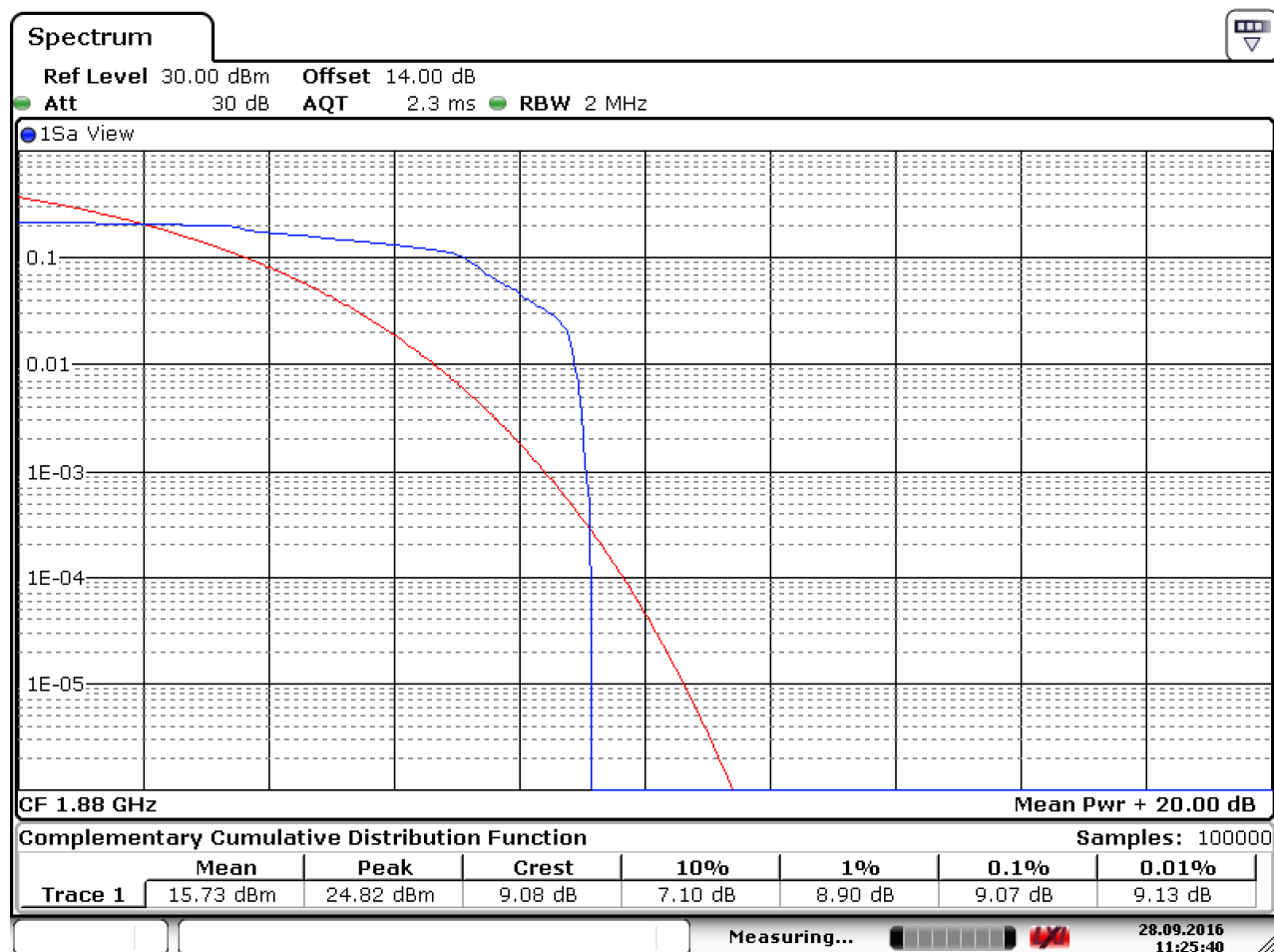
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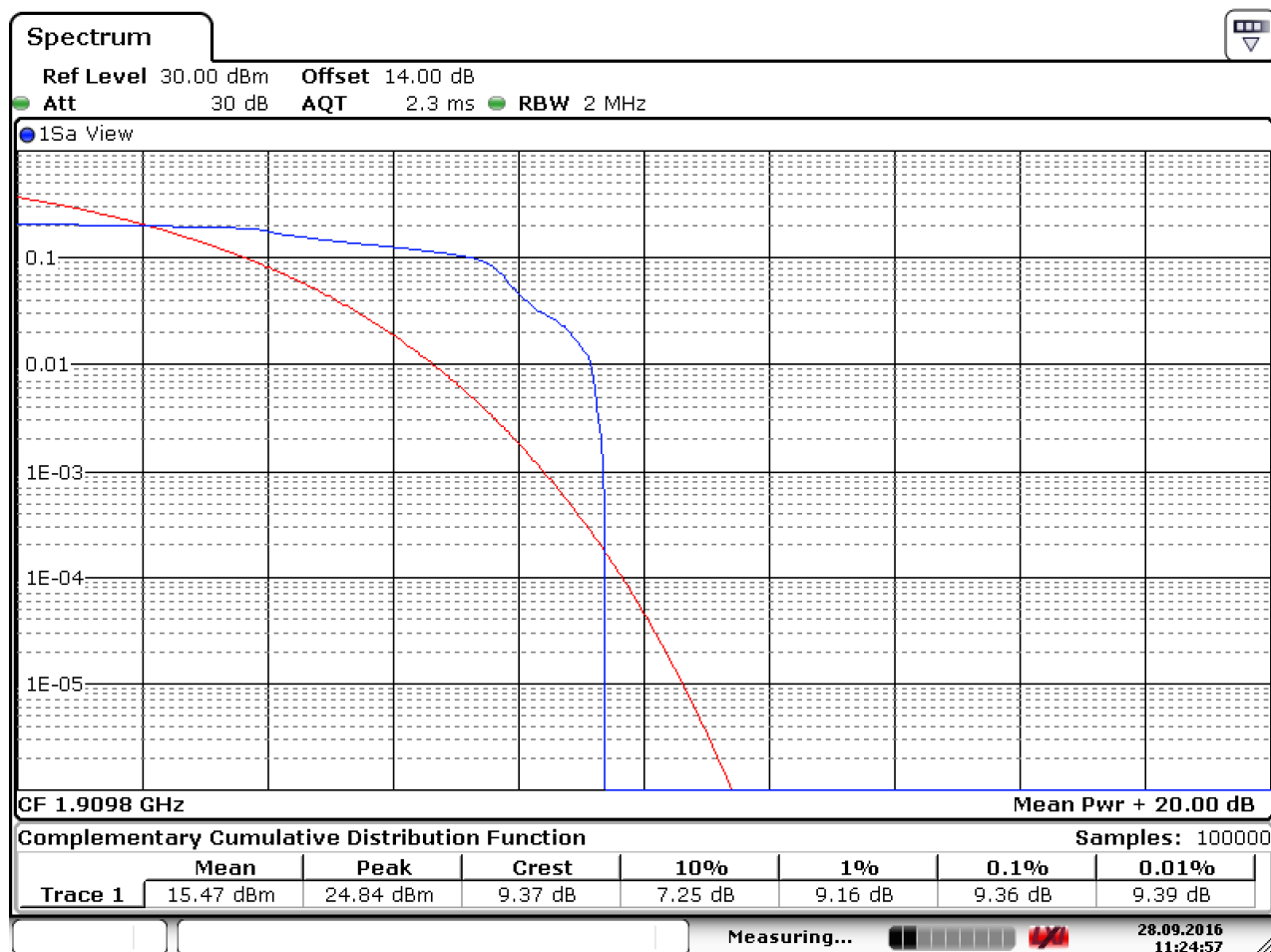
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Date: 28.SEP.2016 11:25:41



2.1.2.1.3 Test Channel = HCH

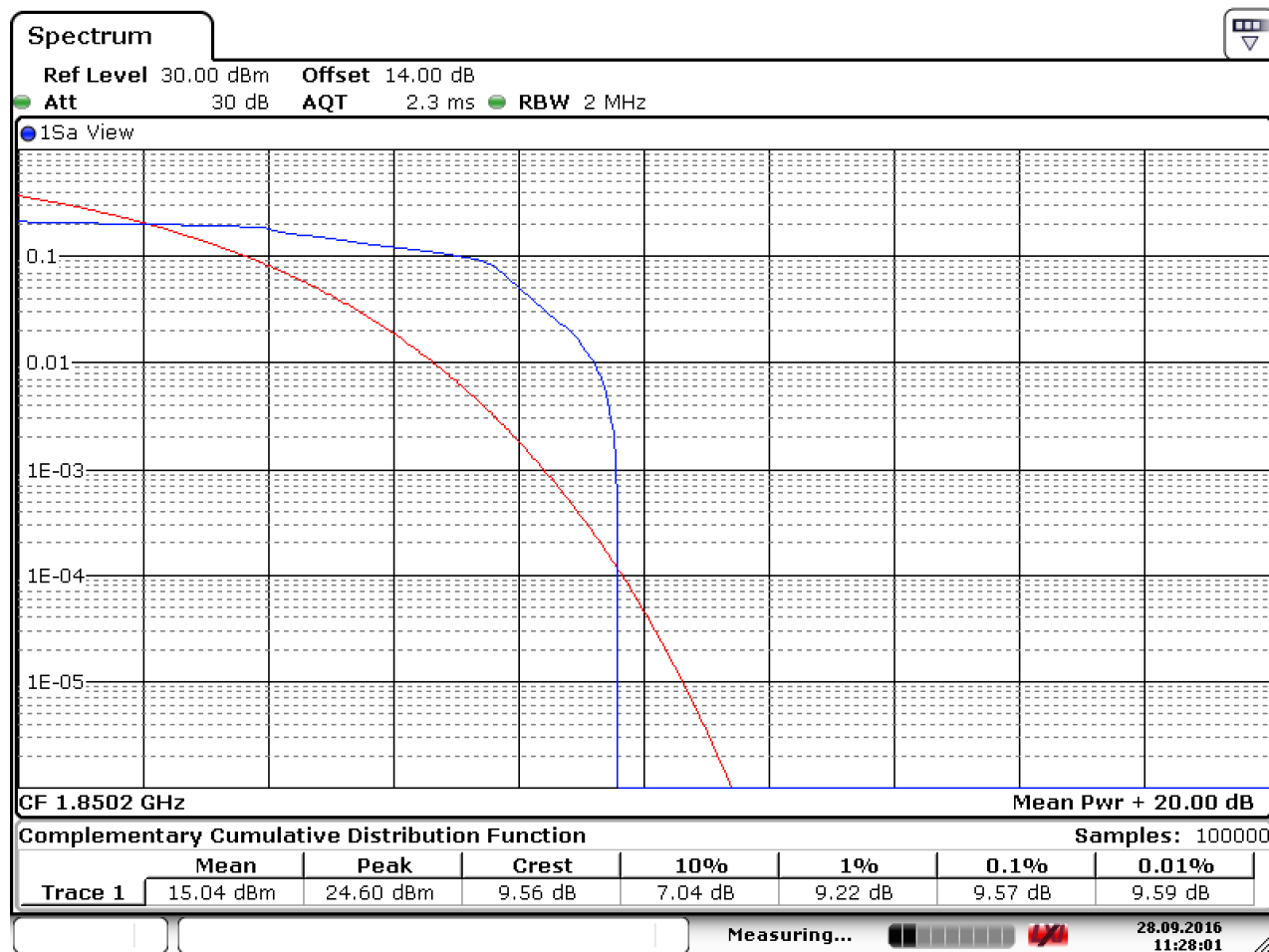


Date: 28.SEP.2016 11:24:57



2.1.2.2 Test Mode = GSM/TM2

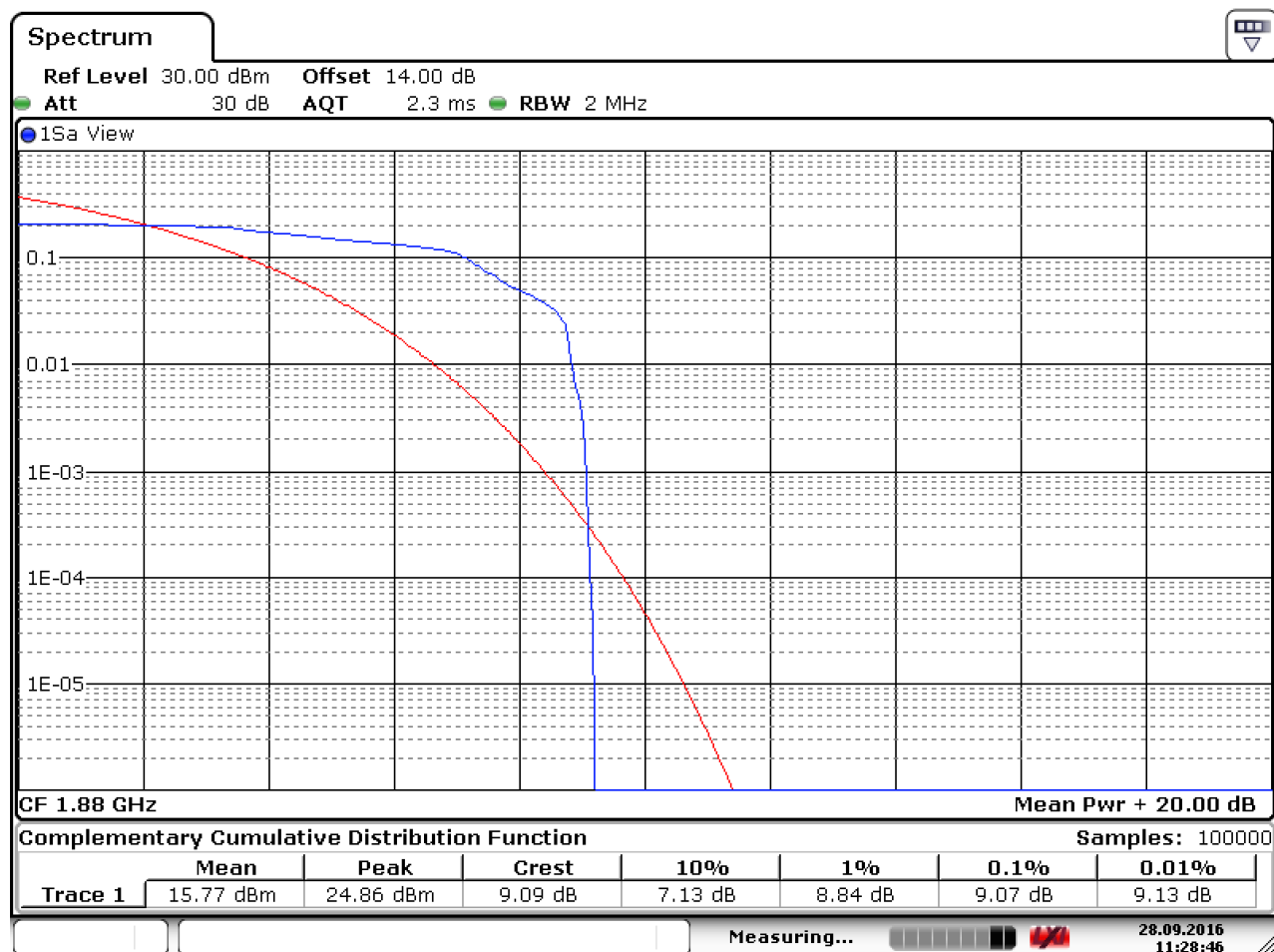
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Date: 28.SEP.2016 11:28:01



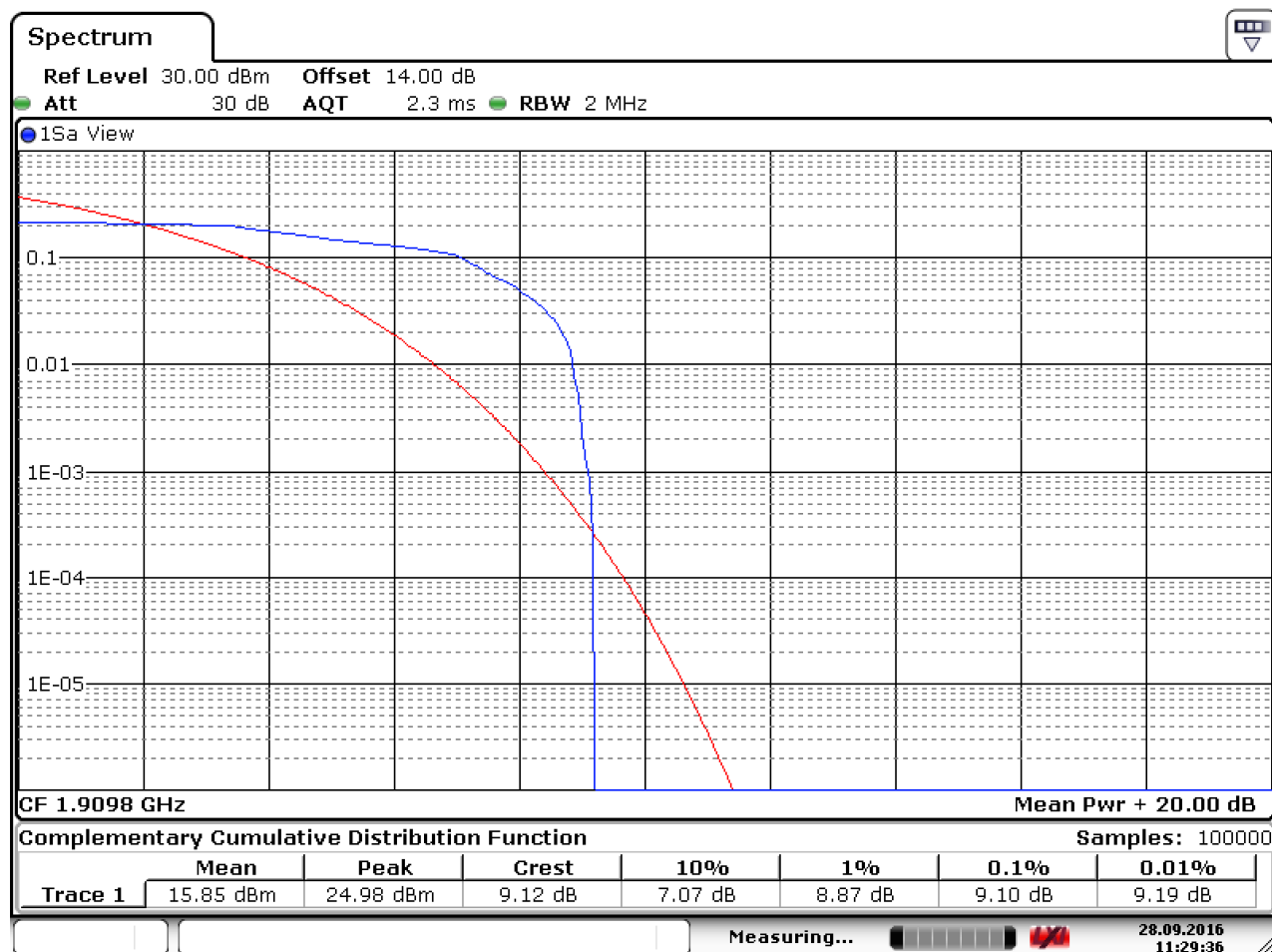
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Date: 28.SEP.2016 11:28:46



2.1.2.2.3 Test Channel = HCH



Date: 28.SEP.2016 11:29:37

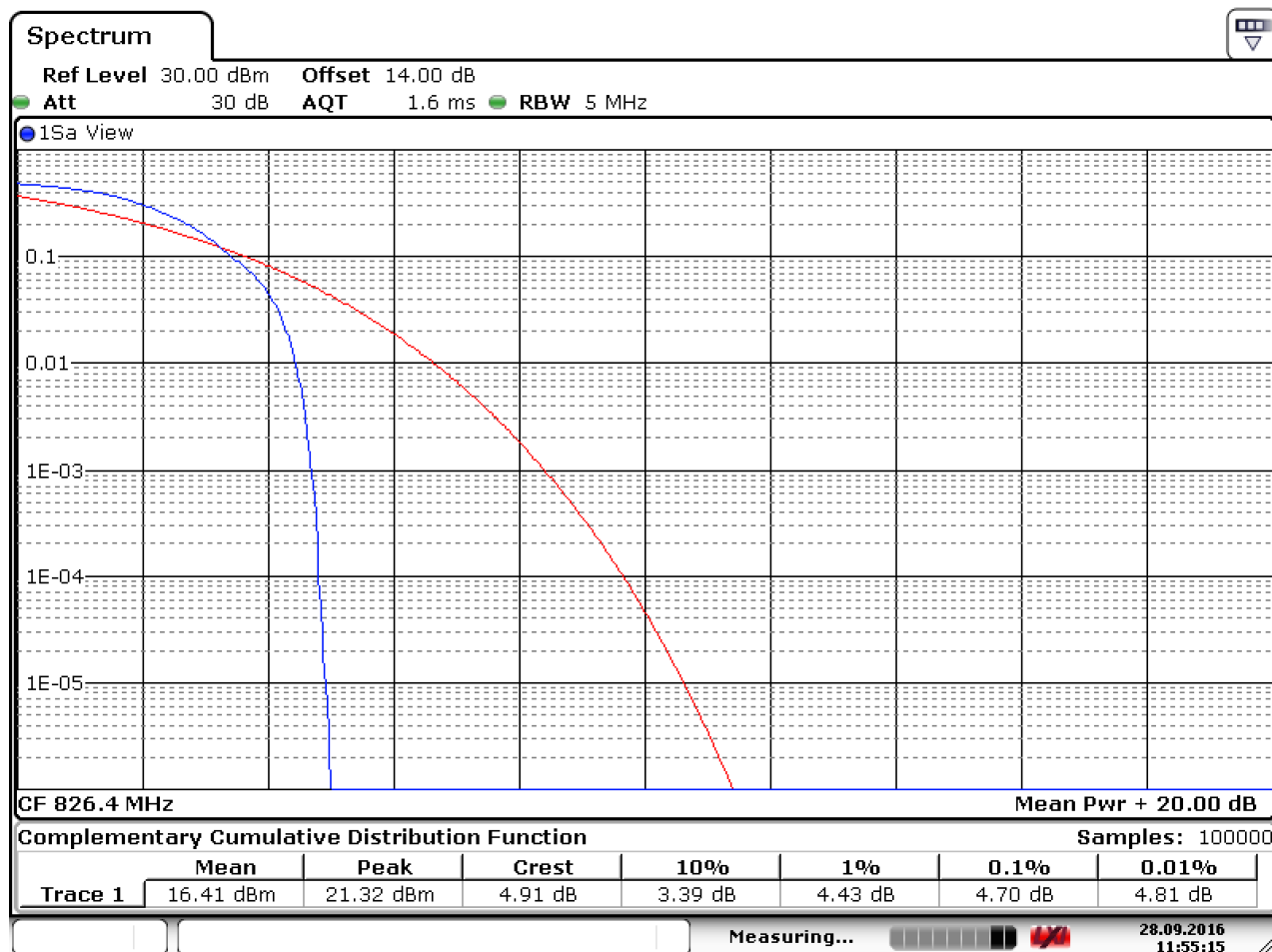


2.2 For WCDMA

2.2.1 Test Band = WCDMA850

2.2.1.1 Test Mode = UMTS/TM1

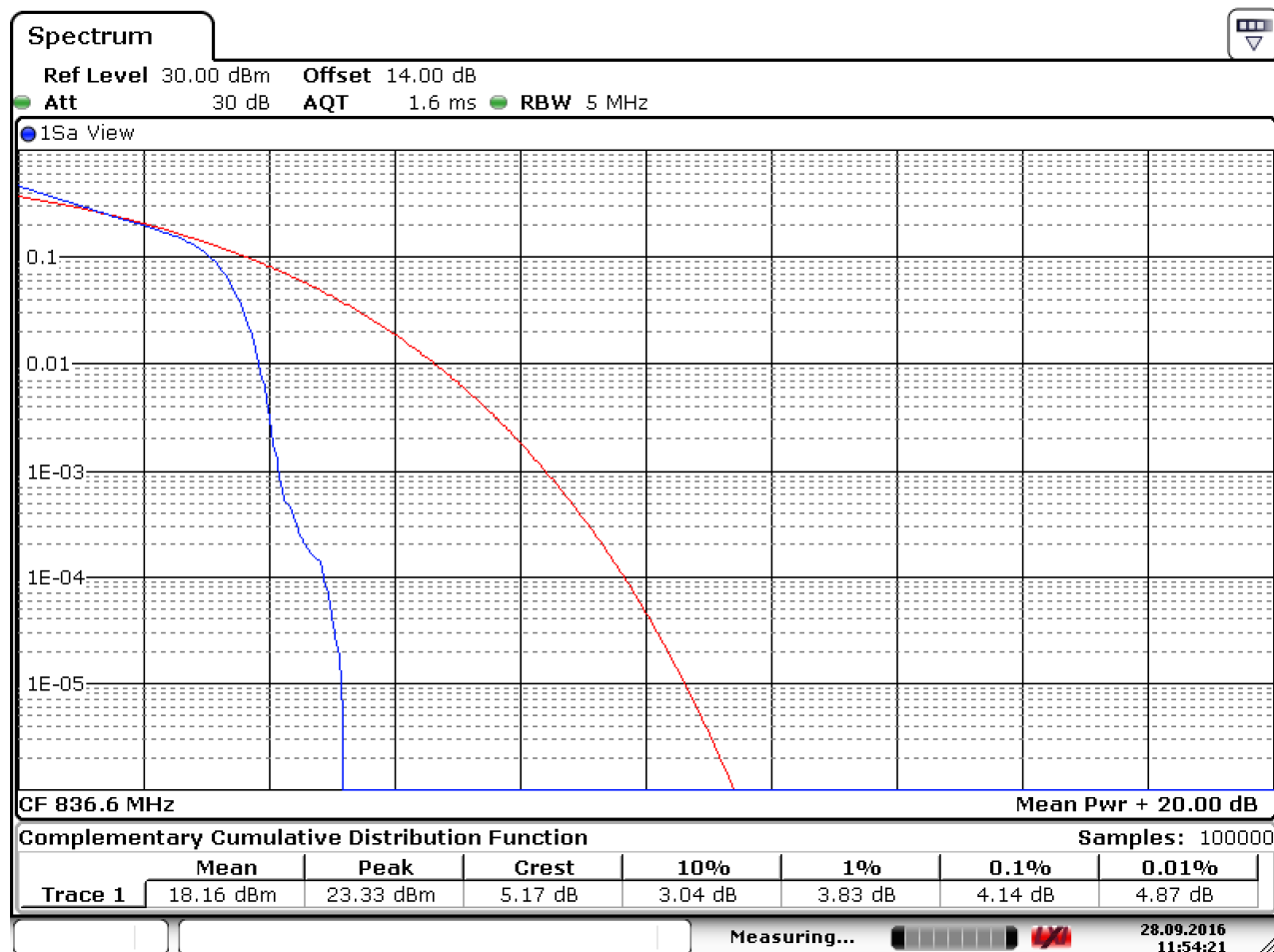
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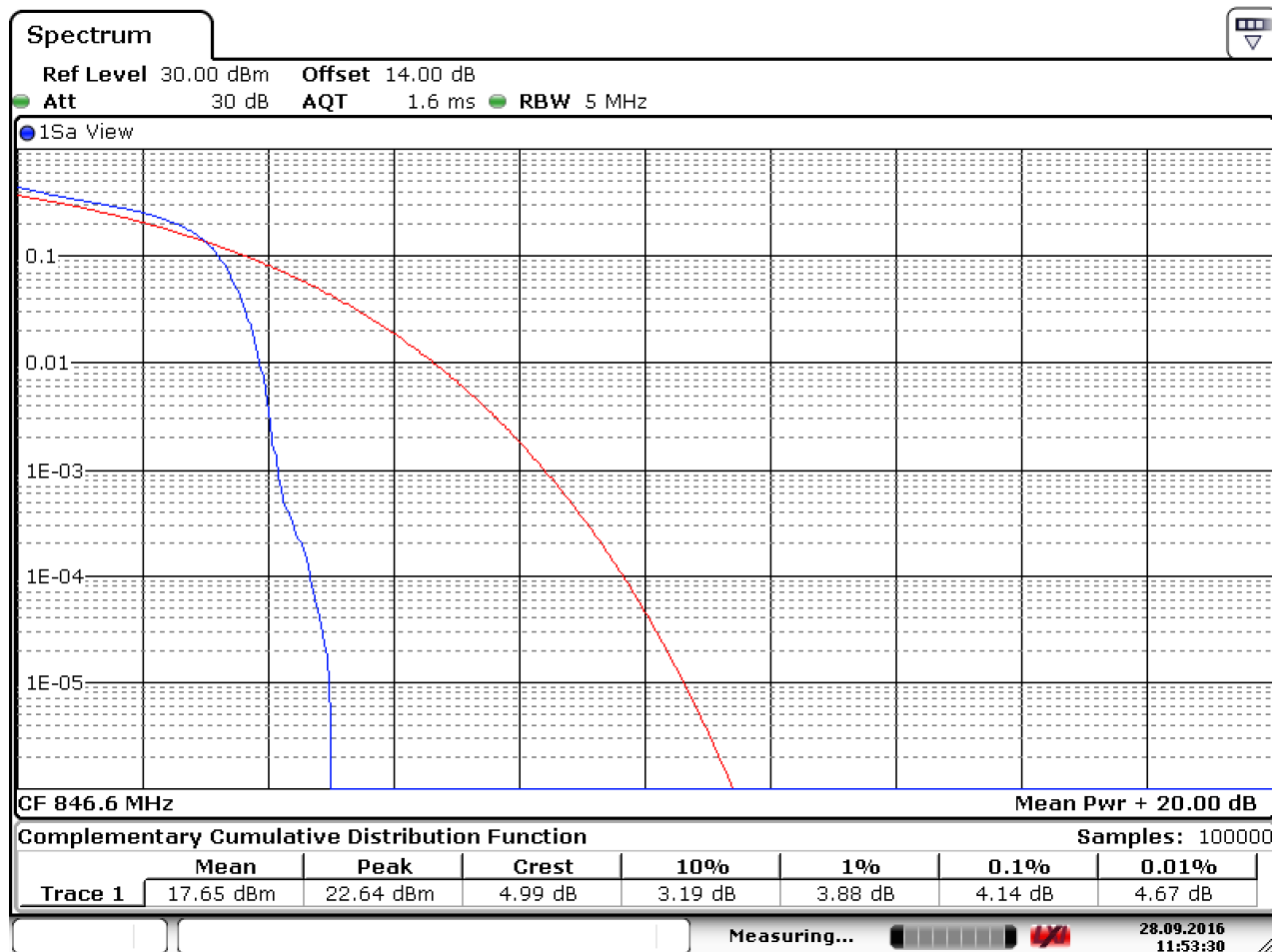
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Date: 28.SEP.2016 11:54:21



2.2.1.1.3 Test Channel = HCH



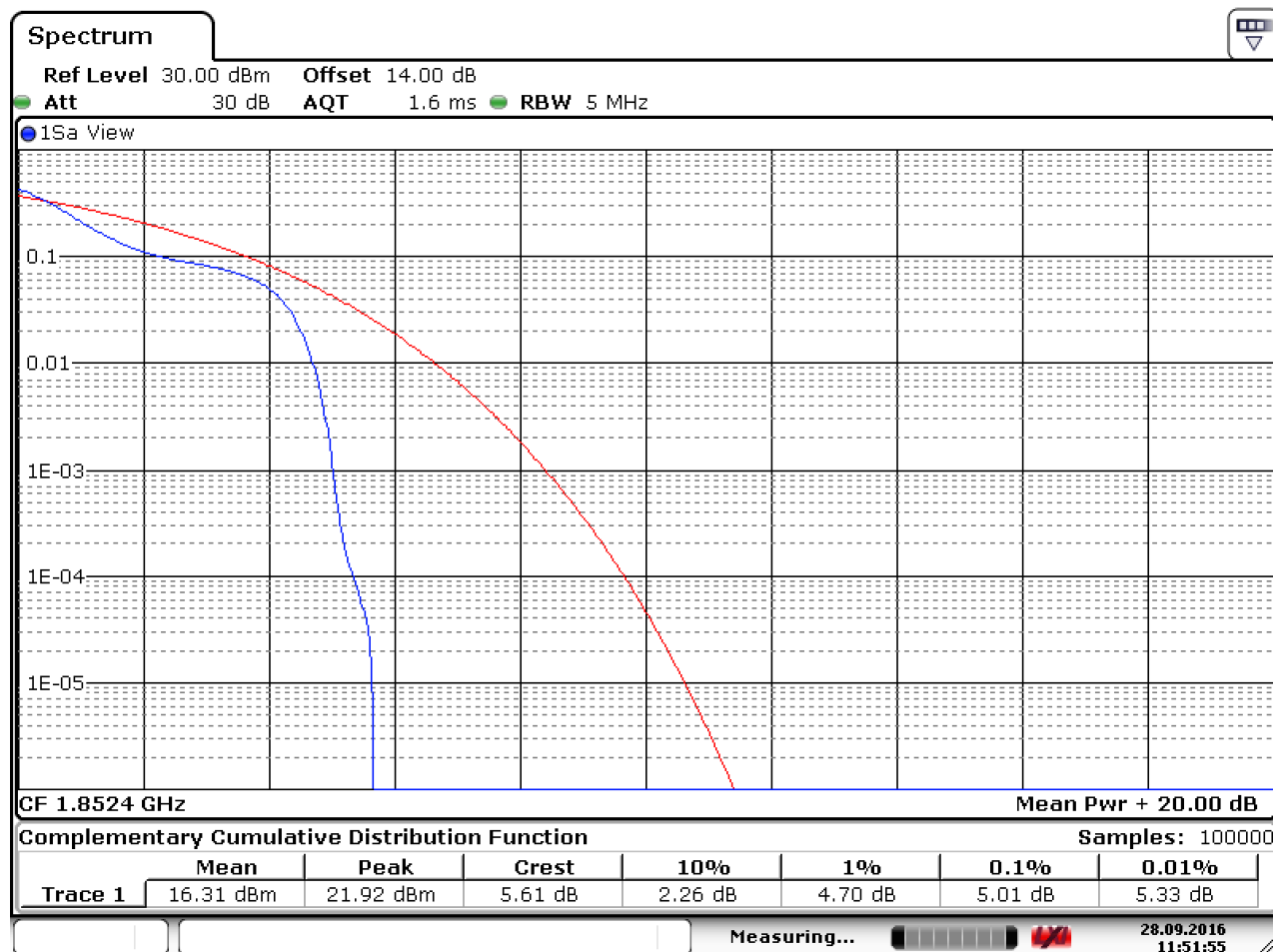
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2.2.2 Test Band = WCDMA1900

2.2.2.1 Test Mode = UMTS/TM1

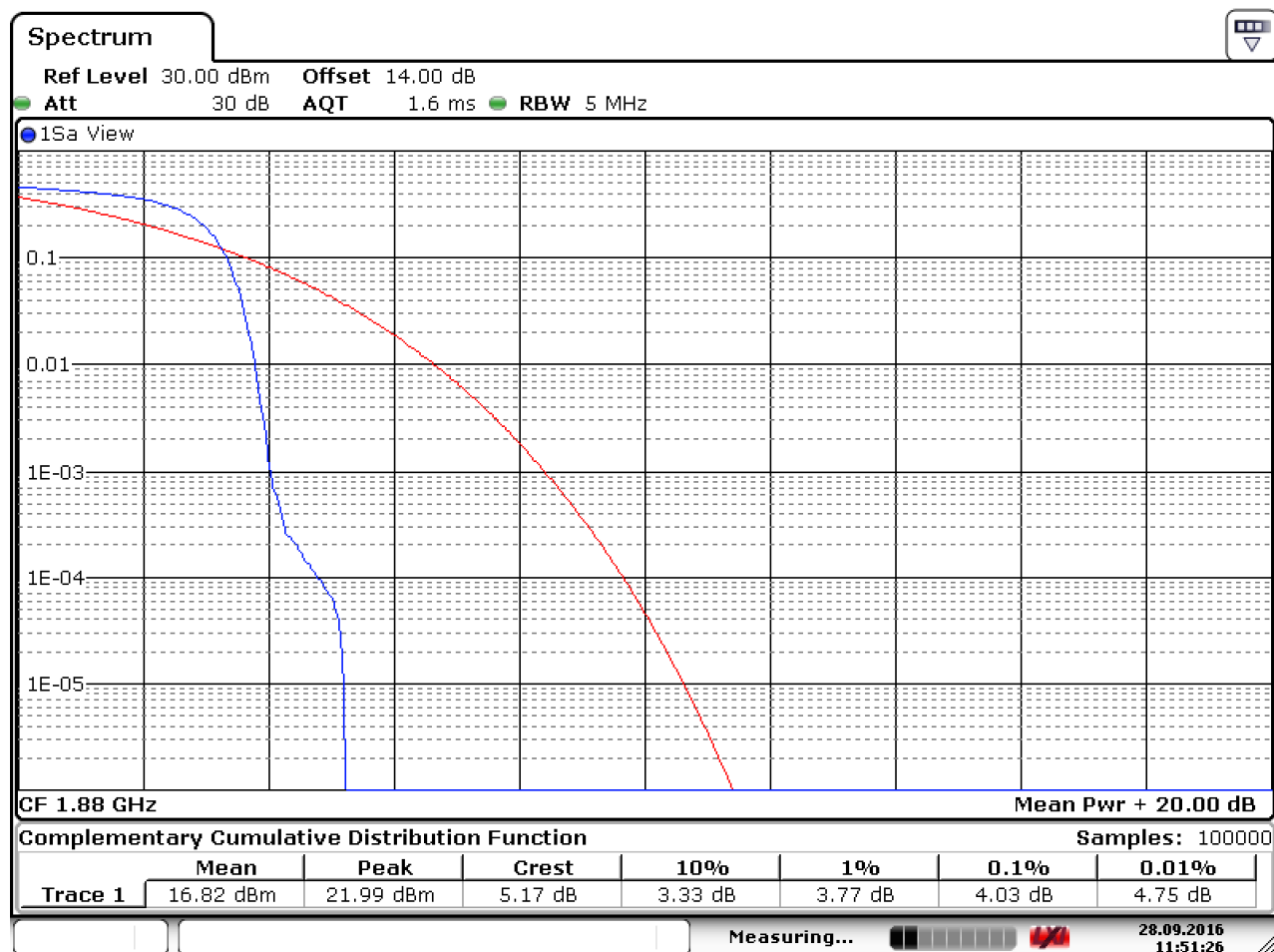
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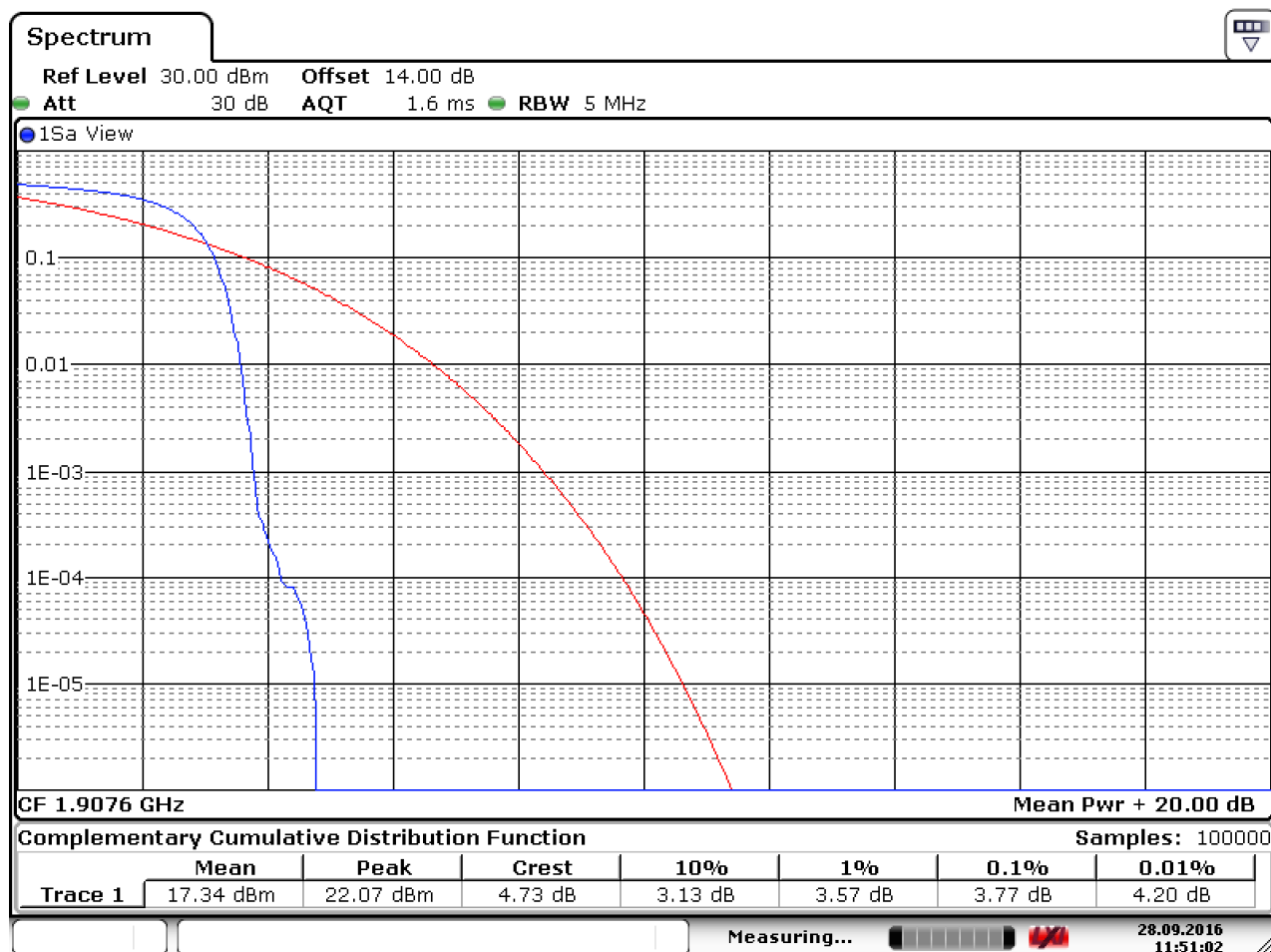
2.2.2.1.2 Test Channel = MCH



Date: 28.SEP.2016 11:51:26



2.2.2.1.3 Test Channel = HCH



Date: 28.SEP.2016 11:51:03

3 Modulation Characteristics

Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

3.1.1.1 Test Mode = GSM/TM1

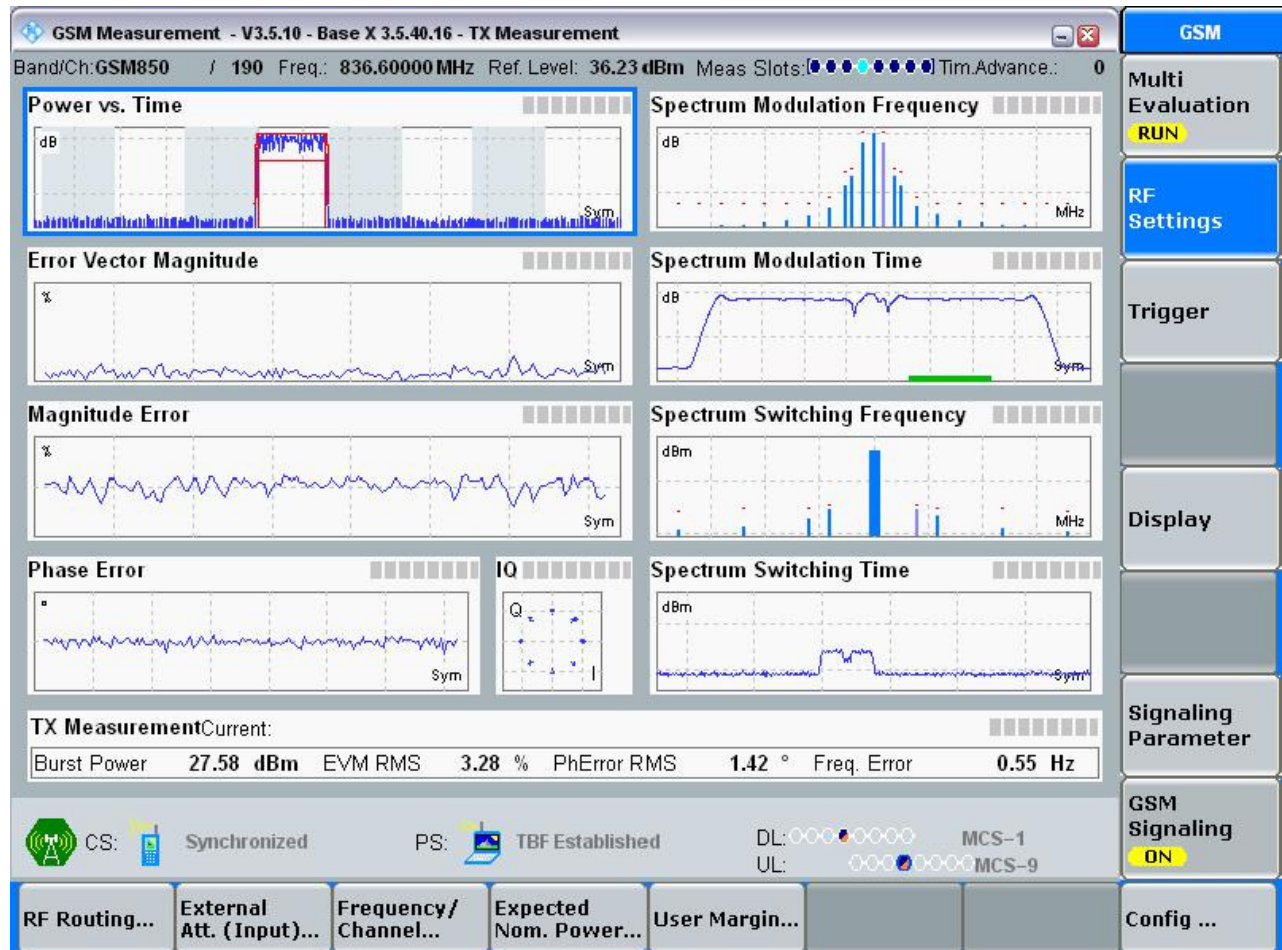
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH

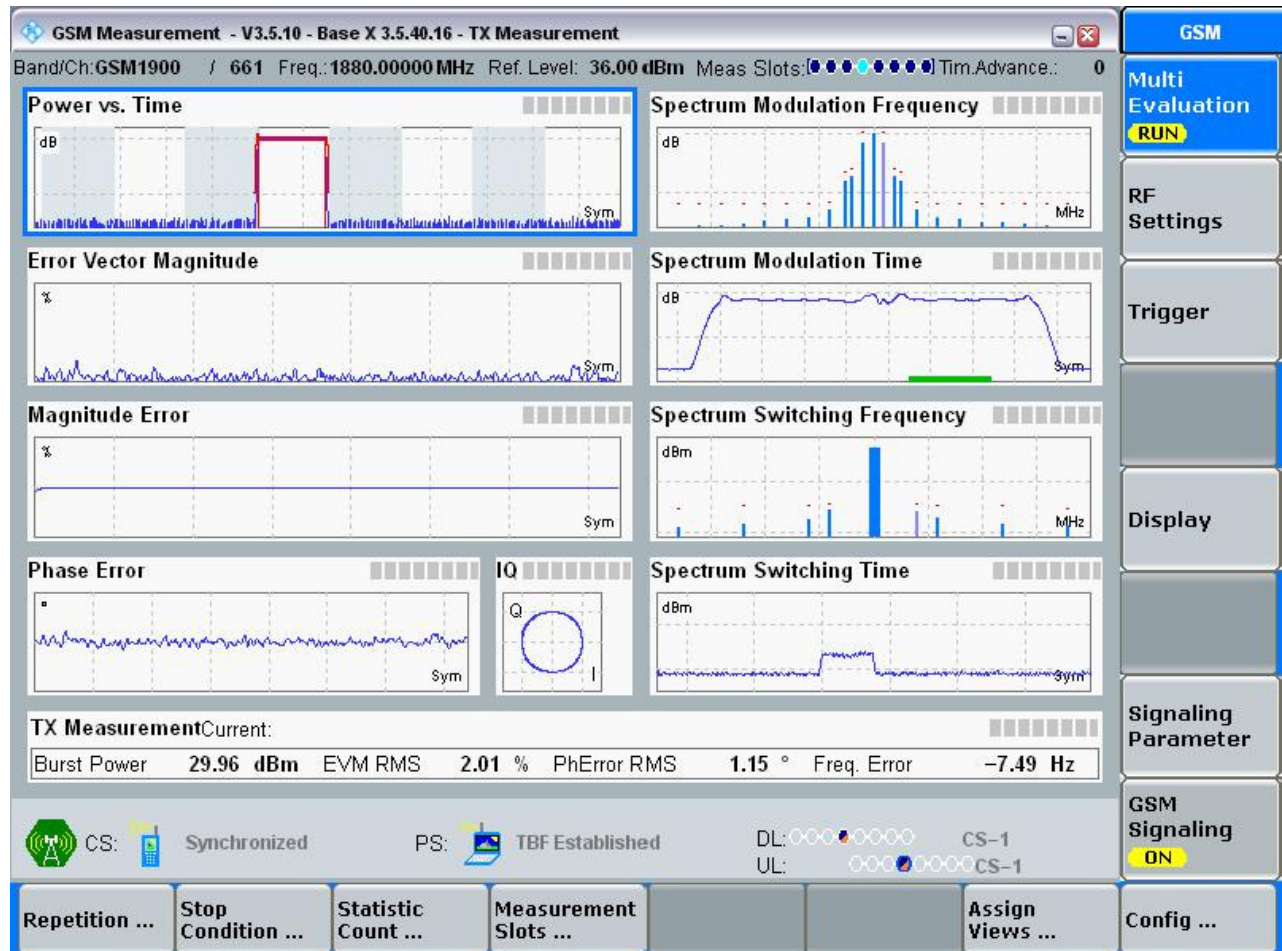




3.1.2 Test Band = GSM1900

3.1.2.1 Test Mode = GSM/TM1

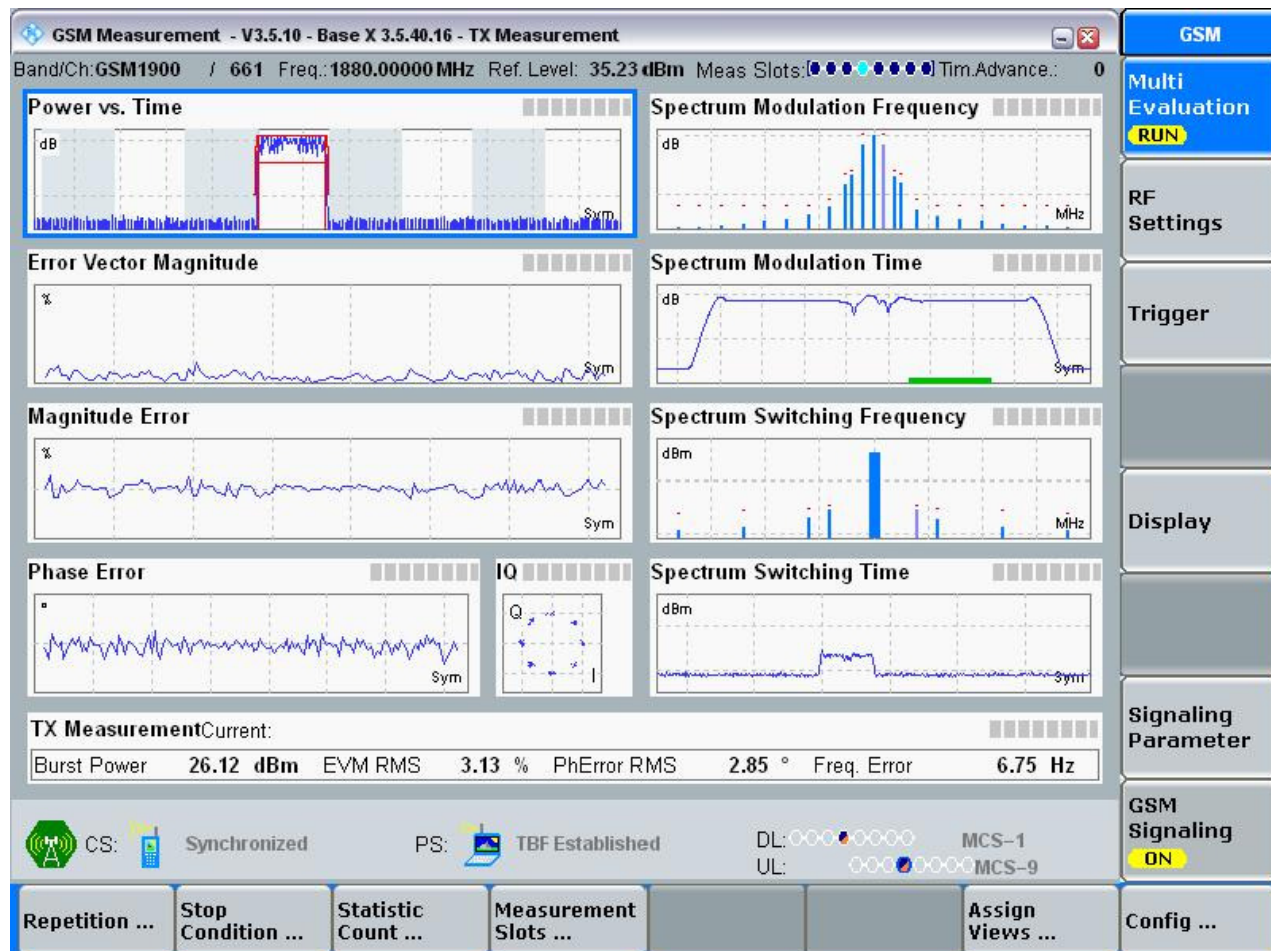
3.1.2.1.1 Test Channel = MCH





3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH



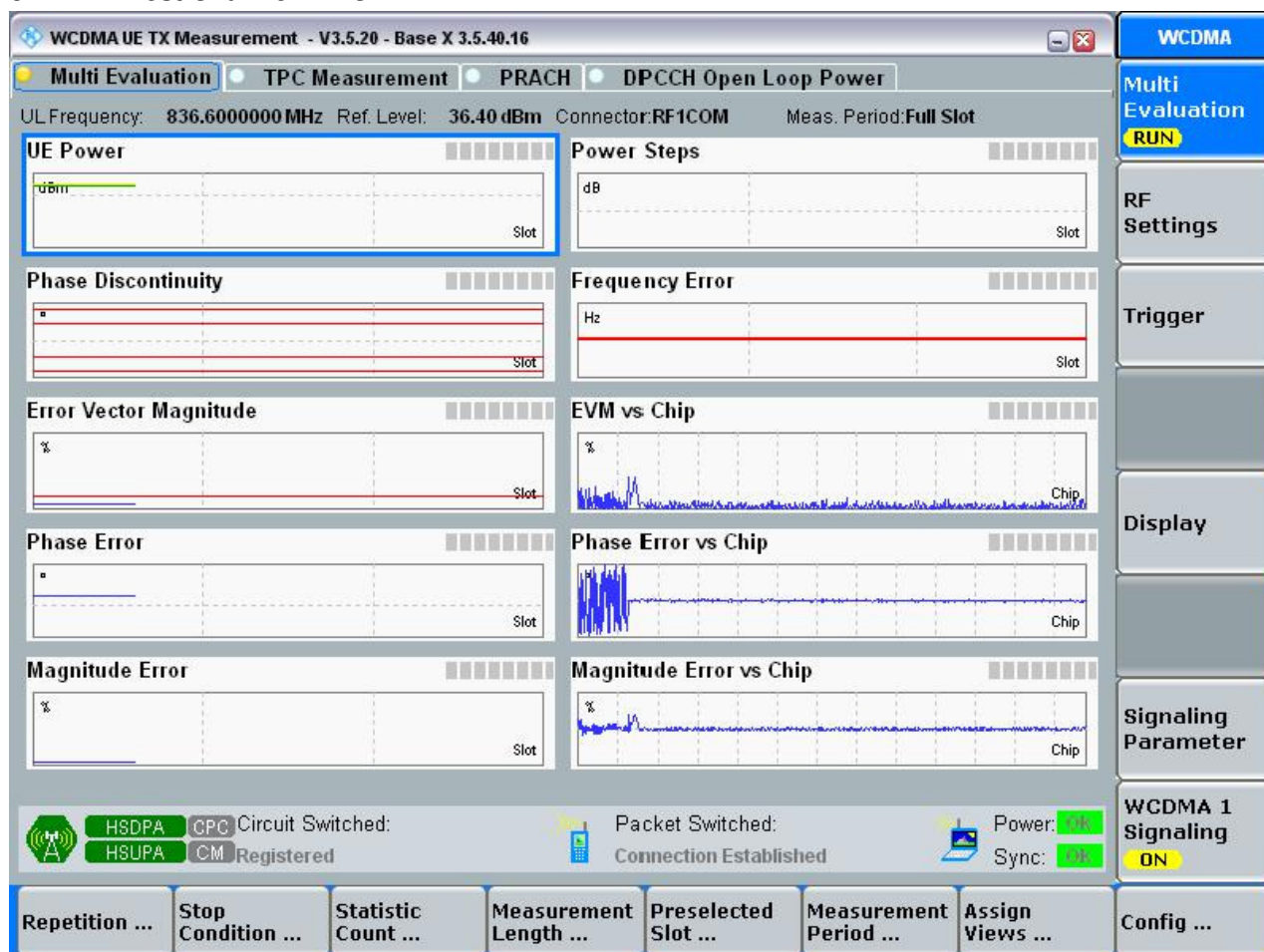


3.2 For WCDMA

3.2.1 Test Band = WCDMA 850

3.2.1.1 Test Mode = UMTS/TM1

3.2.1.1.1 Test Channel = MCH

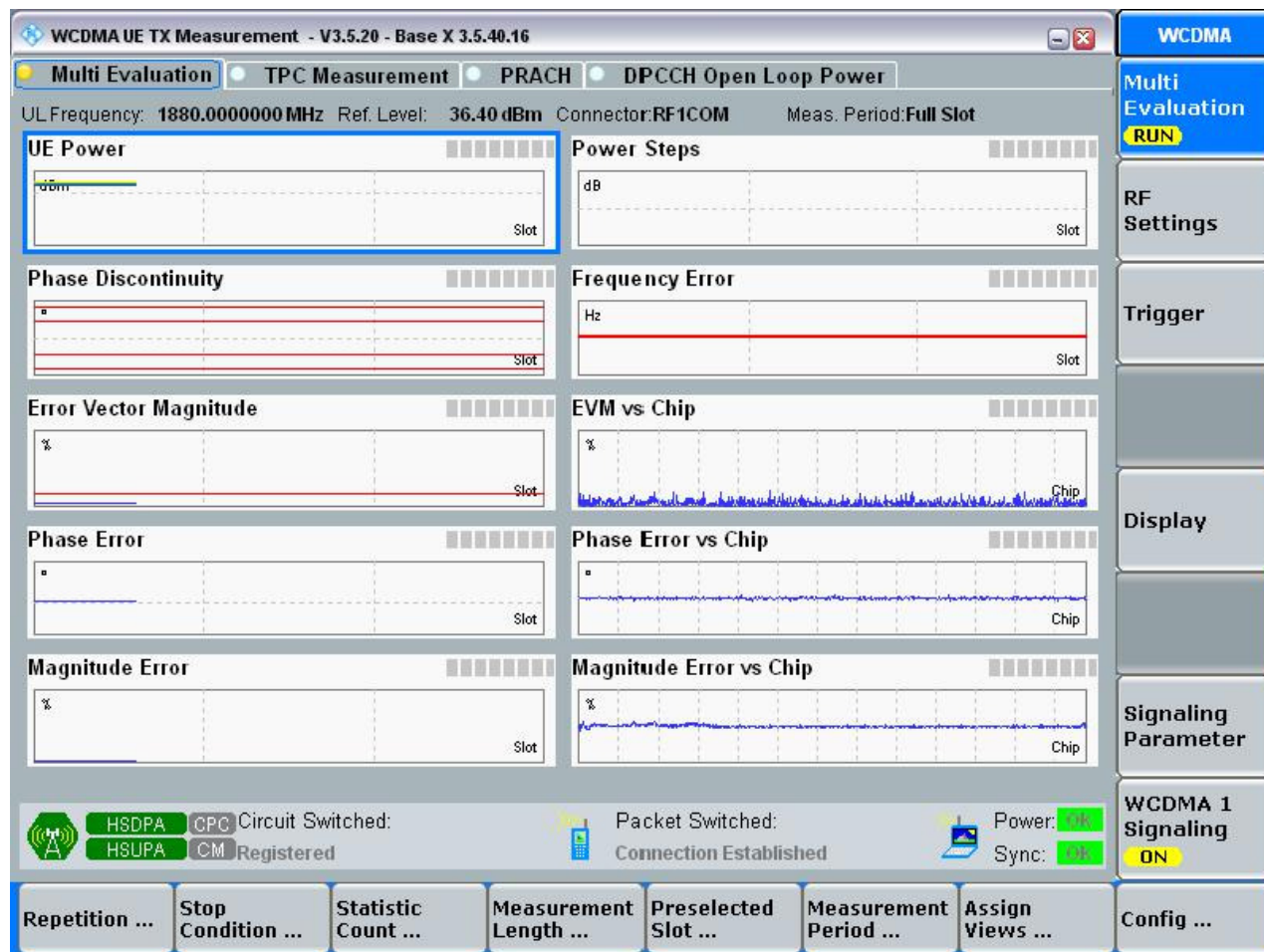




3.2.2 Test Band = WCDMA 1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [kHz] | Emission Bandwidth [kHz] | Verdict |
|-----------|------------|--------------|--------------------------|--------------------------|---------|
| GSM850 | TM1 | MCH | 241.7 | 315.5 | PASS |
| | TM1&4slots | MCH | 240.2 | 315.5 | PASS |
| | TM2 | MCH | 243.1 | 315.5 | PASS |

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [kHz] | Emission Bandwidth [kHz] | Verdict |
|-----------|------------|--------------|--------------------------|--------------------------|---------|
| GSM1900 | TM1 | MCH | 243.1 | 315.5 | PASS |
| | TM1&4slots | MCH | 243.1 | 318.4 | PASS |
| | TM2 | MCH | 244.6 | 315.5 | PASS |

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|--------------|-----------|--------------|--------------------------|--------------------------|---------|
| WCDMA 850 | TM1&WCDMA | MCH | 4.07 | 4.66 | PASS |
| | TM1&HSDPA | MCH | 4.07 | 4.65 | PASS |
| | TM1&HSUPA | MCH | 4.07 | 4.65 | PASS |

| Test Band | Test Mode | Test Channel | Occupied Bandwidth [MHz] | Emission Bandwidth [MHz] | Verdict |
|---------------|-----------|--------------|--------------------------|--------------------------|---------|
| WCDMA 1900 | TM1&WCDMA | MCH | 4.07 | 4.65 | PASS |
| | TM1&HSDPA | MCH | 4.08 | 4.65 | PASS |
| | TM1&HSUPA | MCH | 4.08 | 4.65 | PASS |

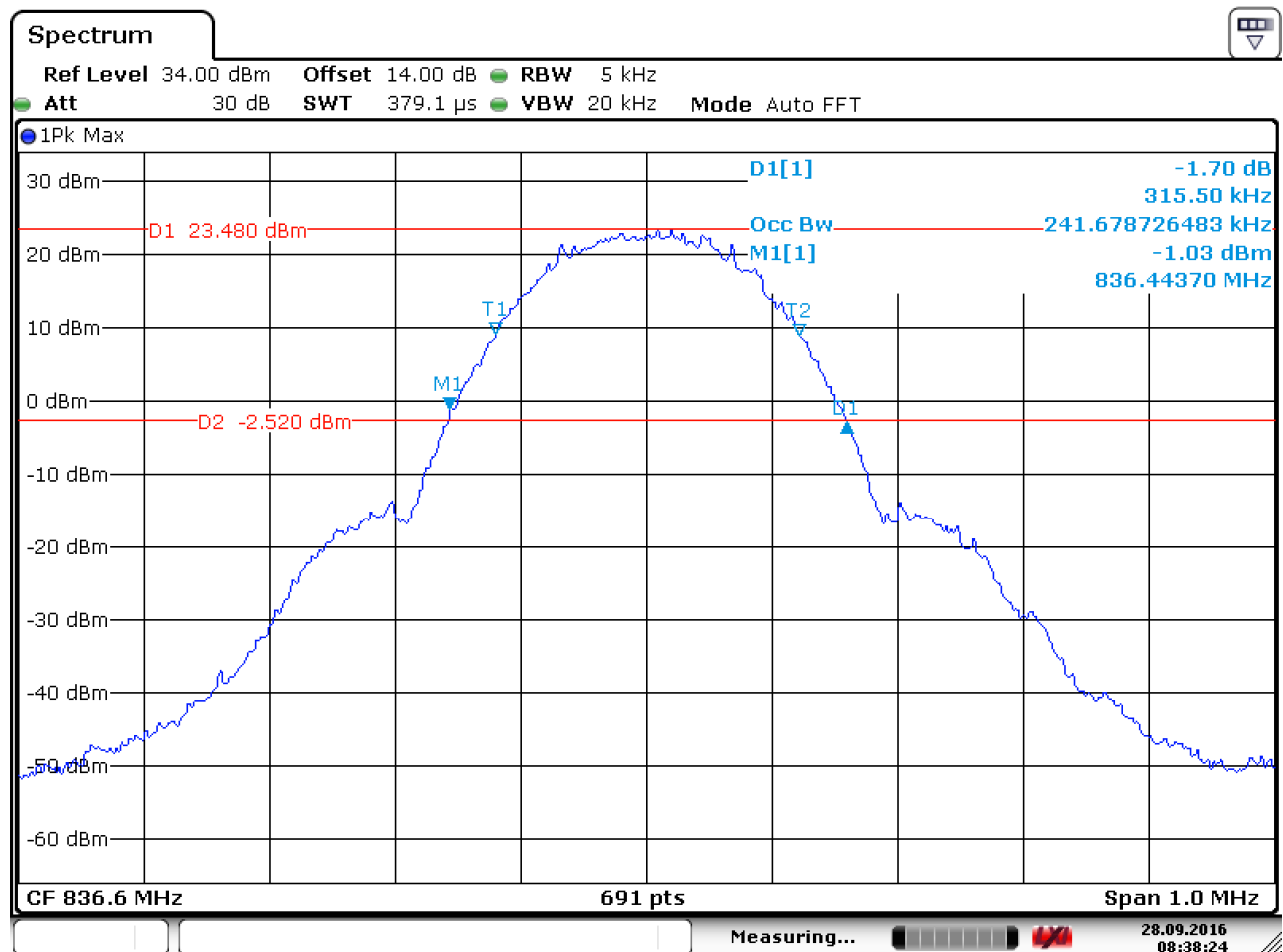


4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = MCH

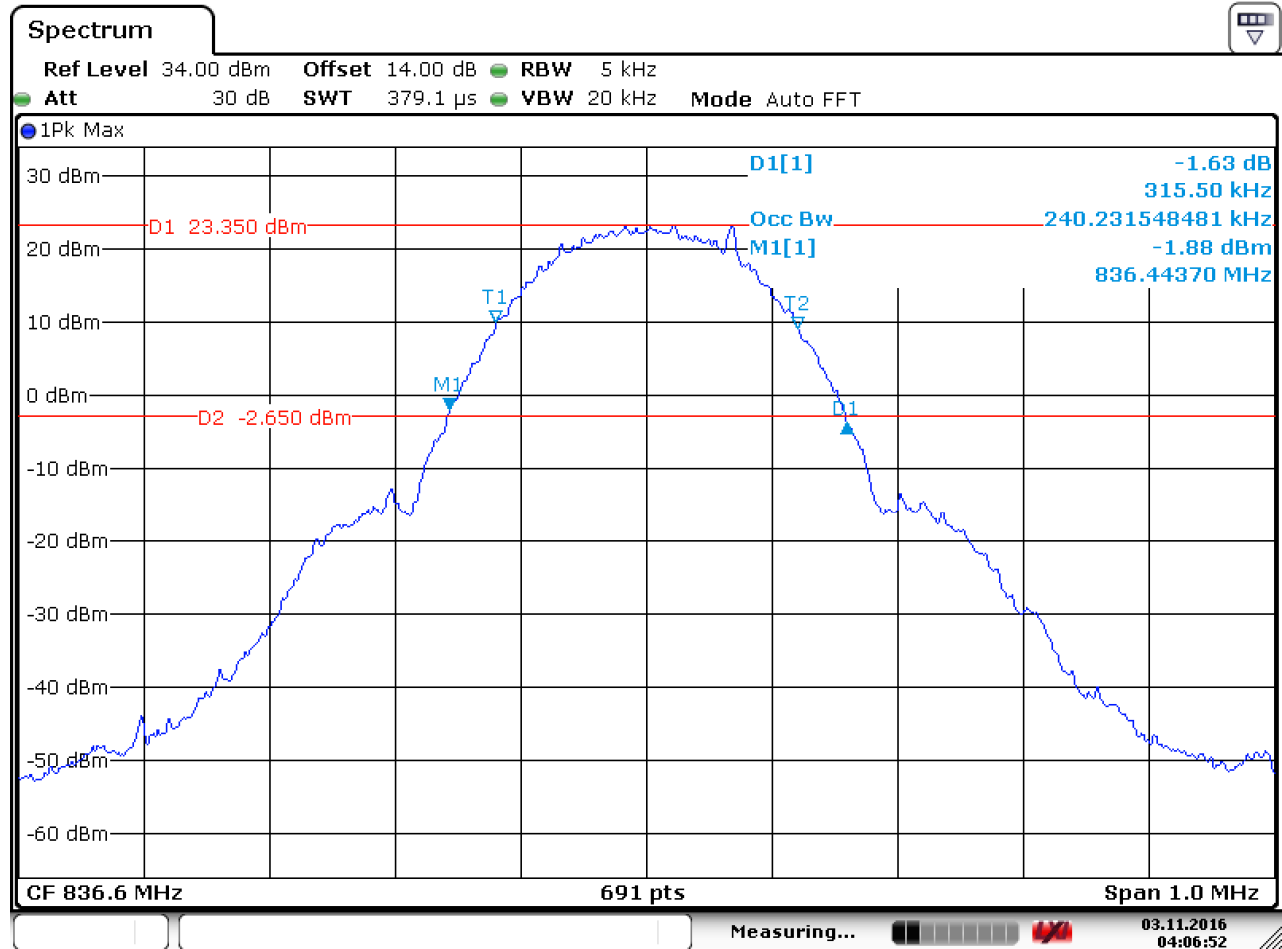


Date: 28.SEP.2016 08:38:24



4.1.1.2 Test Mode = GSM/TM1&4slots

4.1.1.2.1 Test Channel = MCH

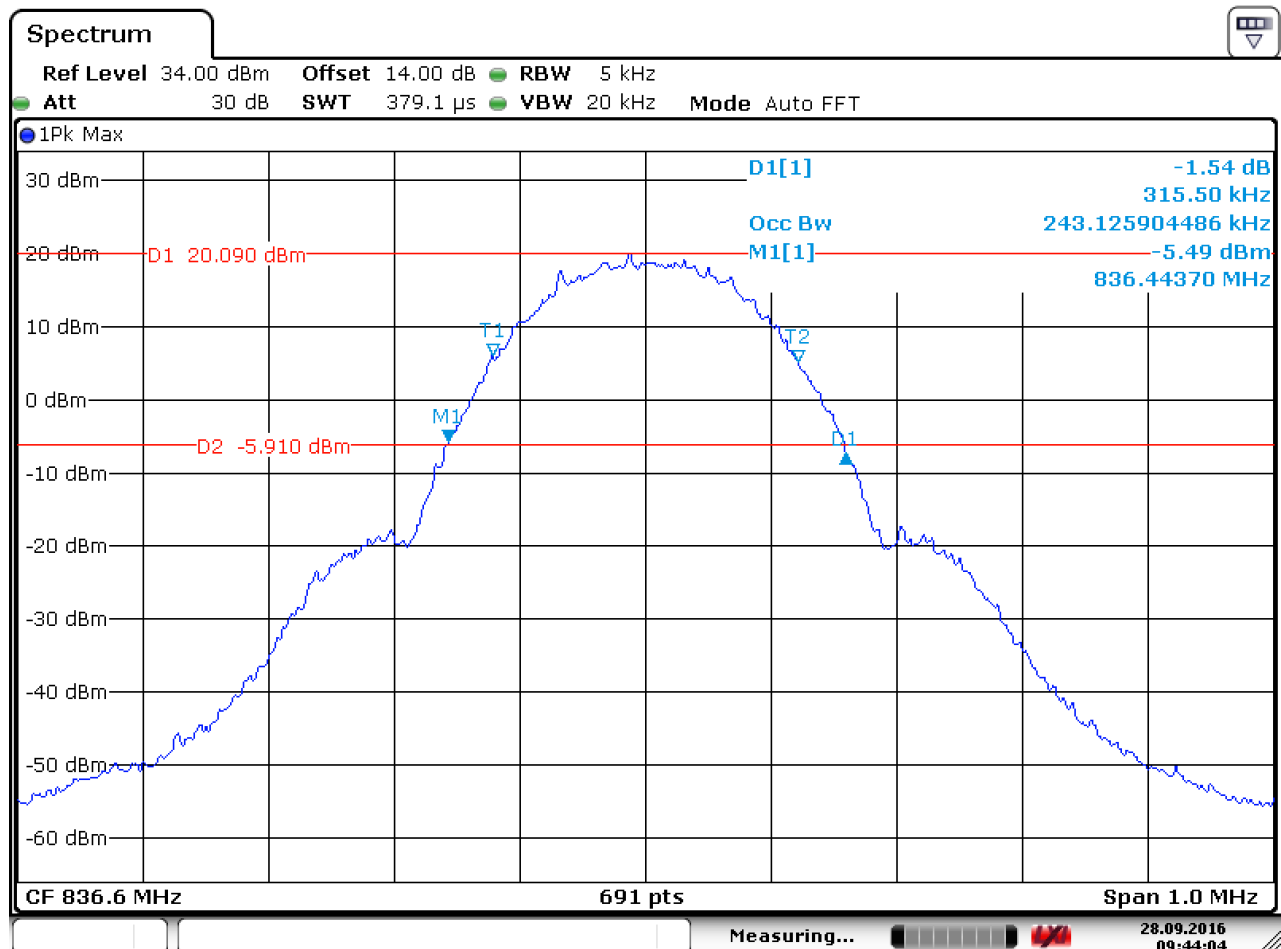


Date: 3.NOV.2016 04:06:52



4.1.1.3 Test Mode = GSM/TM2

4.1.1.3.1 Test Channel = MCH



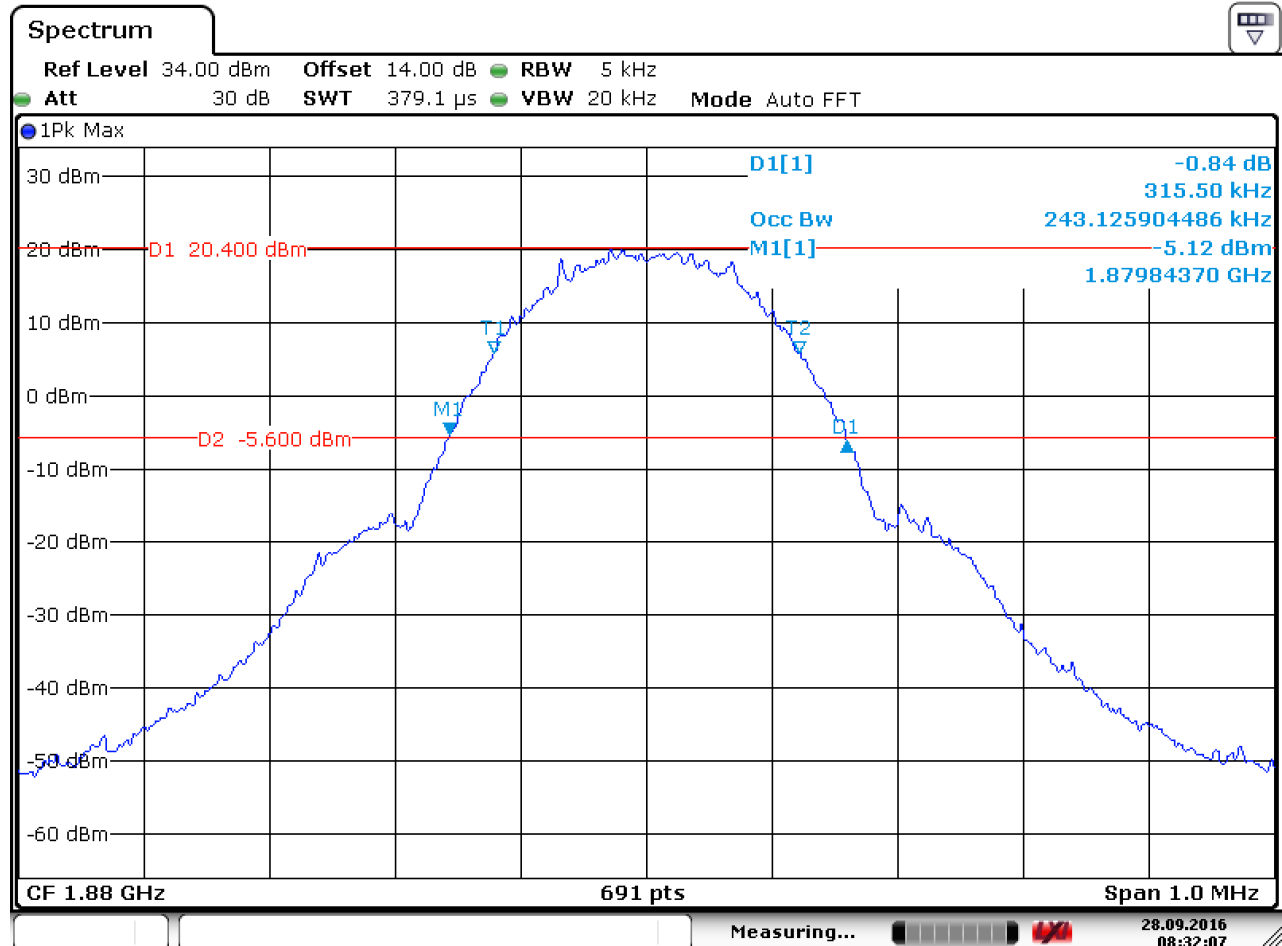
Date: 28.SEP.2016 09:44:05



4.1.2 Test Band = GSM1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = MCH

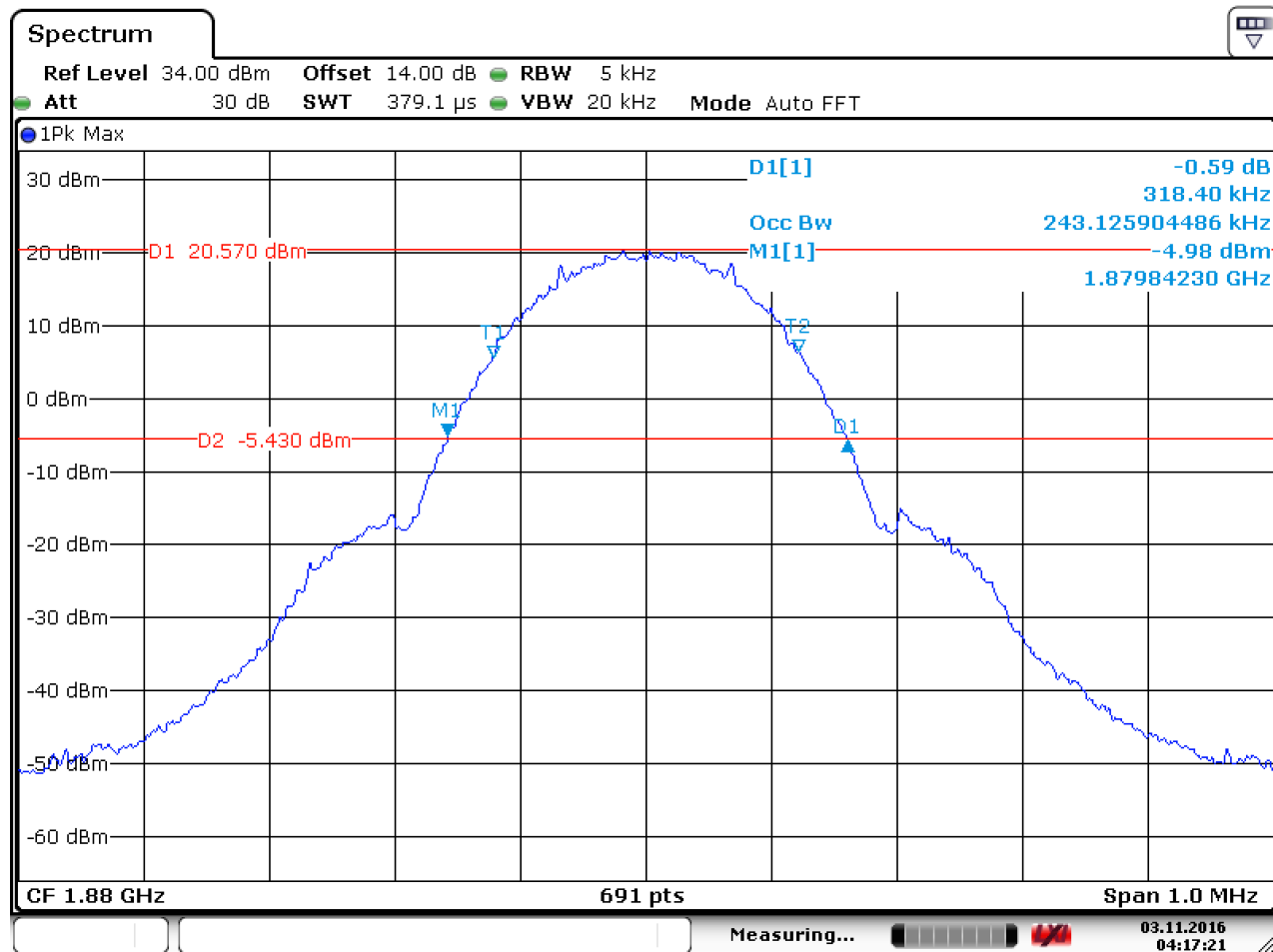


Date: 28.SEP.2016 08:32:08



4.1.2.2 Test Mode = GSM/TM1&4slots

4.1.2.2.1 Test Channel = MCH

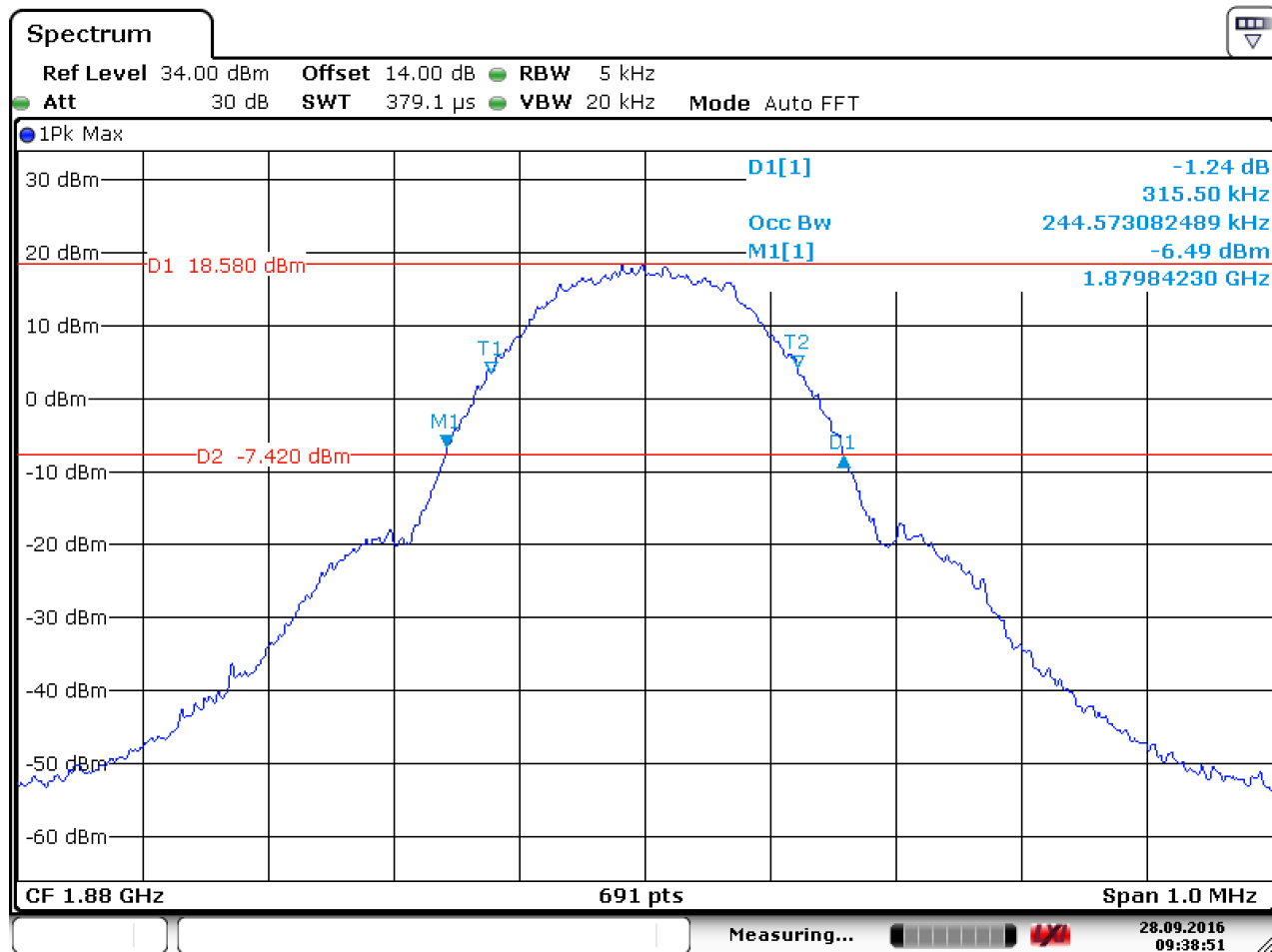


Date: 3.NOV.2016 04:17:21



4.1.2.3 Test Mode = GSM/TM2

4.1.2.3.1 Test Channel = MCH



Date: 28.SEP.2016 09:38:51

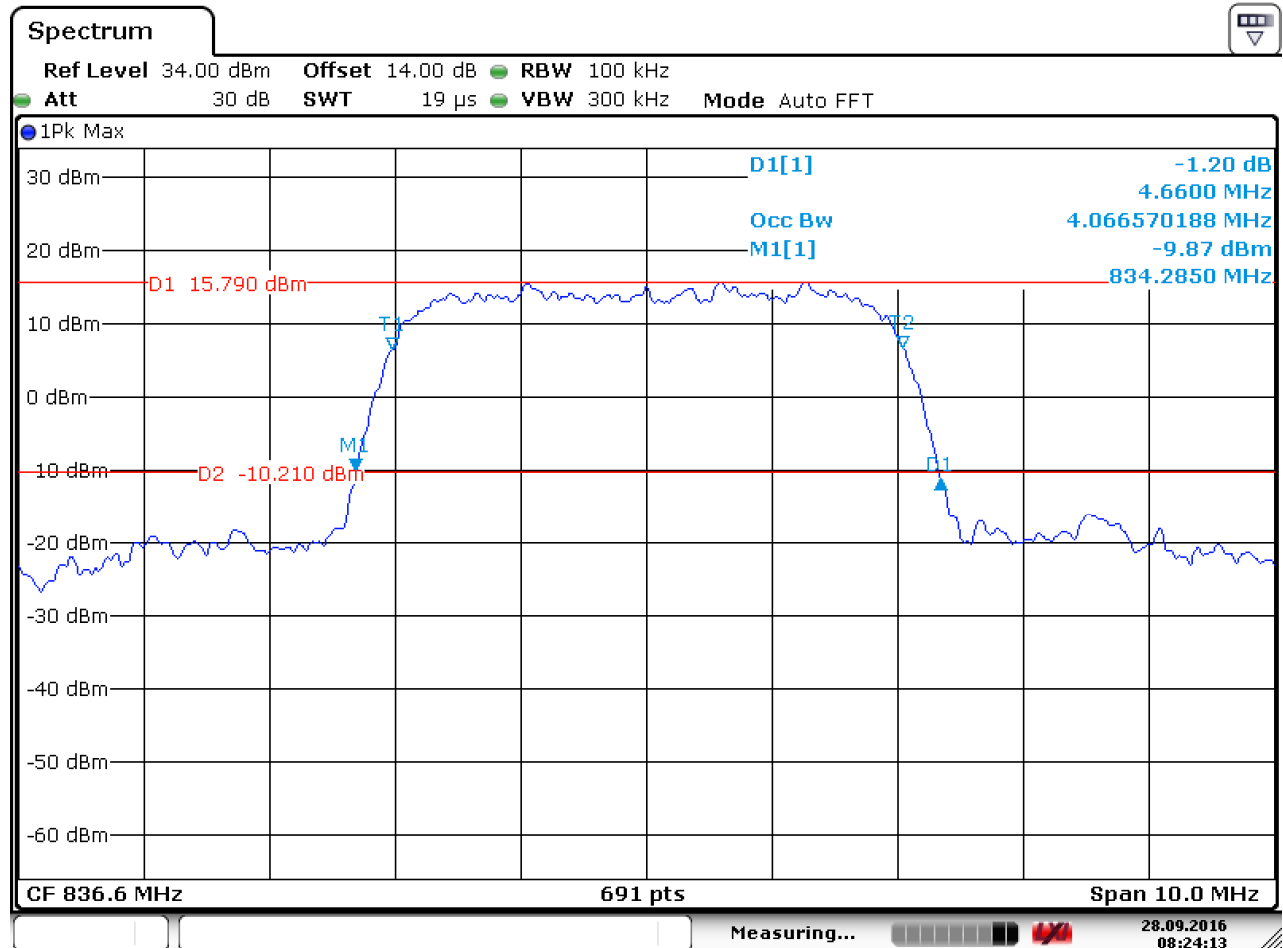


4.2 For WCDMA

4.2.1 Test Band = WCDMA850

4.2.1.1 Test Mode = UMTS/TM1&WCDMA

4.2.1.1.1 Test Channel = MCH

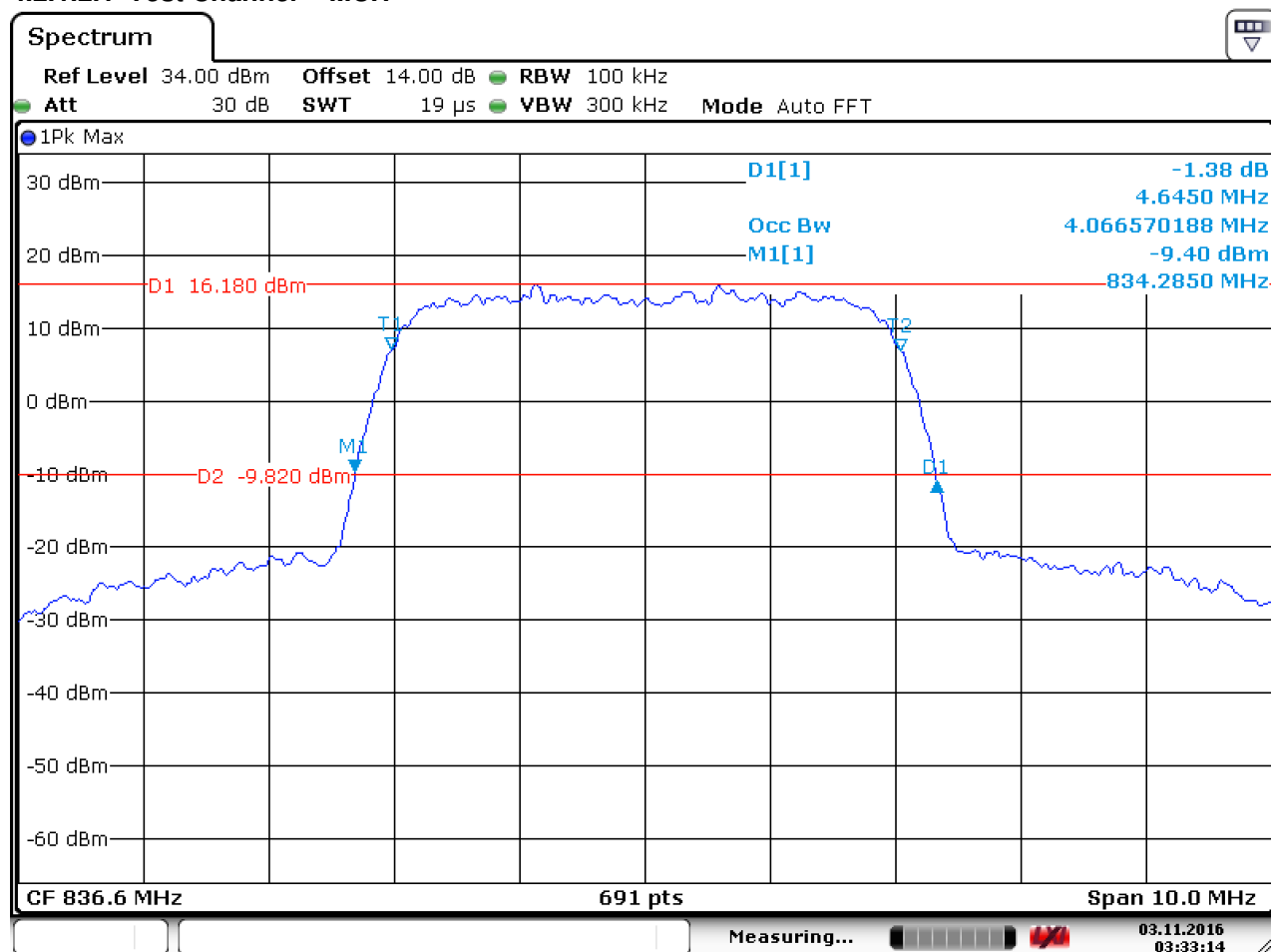


Date: 28.SEP.2016 08:24:14



4.2.1.2 Test Mode = UMTS/ TM1&HSDPA

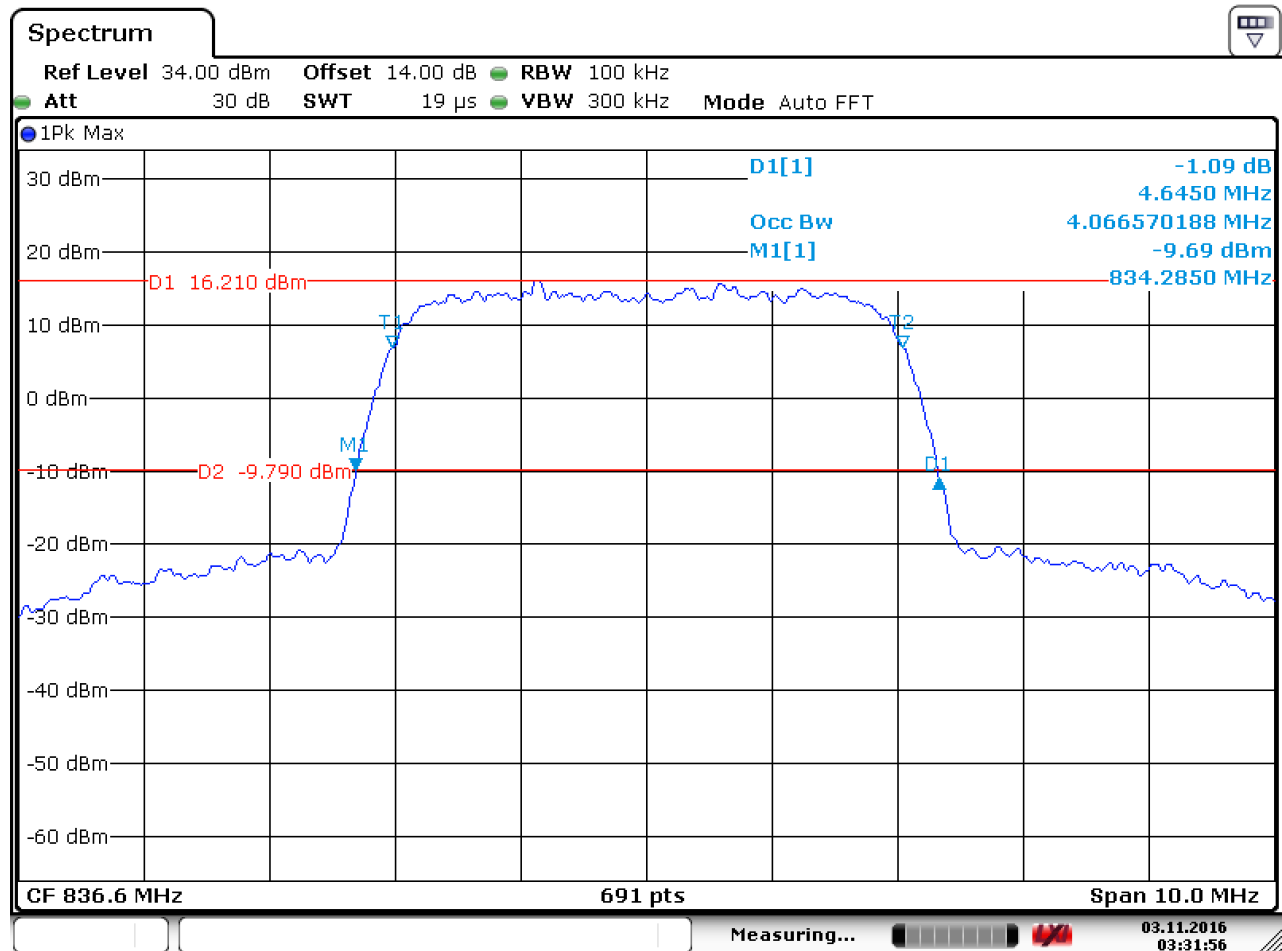
4.2.1.2.1 Test Channel = MCH



Date: 3.NOV.2016 03:33:14

4.2.1.3 Test Mode = UMTS/ TM1&HSUPA

4.2.1.3.1 Test Channel = MCH



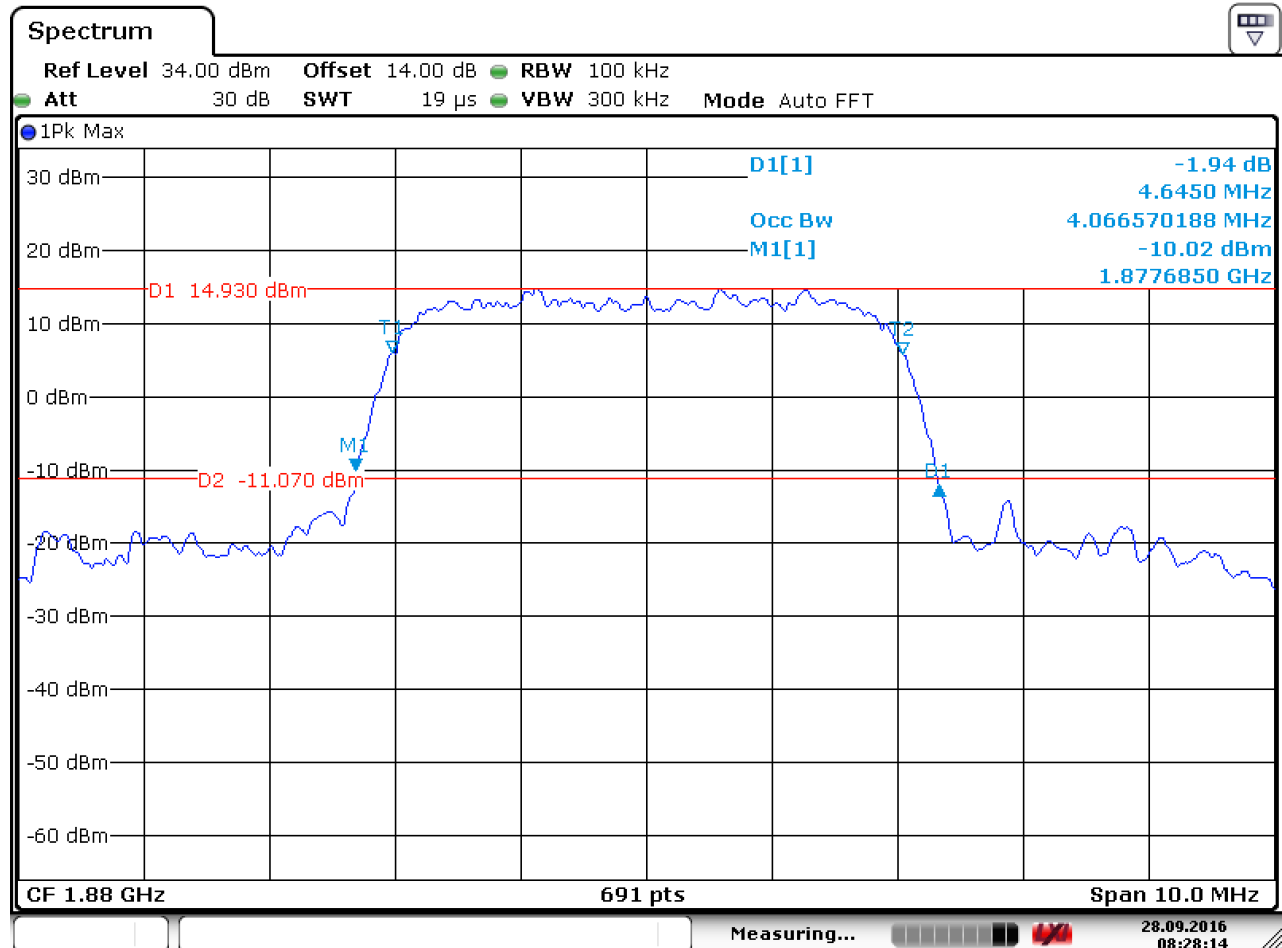
Date: 3.NOV.2016 03:31:57



4.2.2 Test Band = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1&WCDMA

4.2.2.1.1 Test Channel = MCH

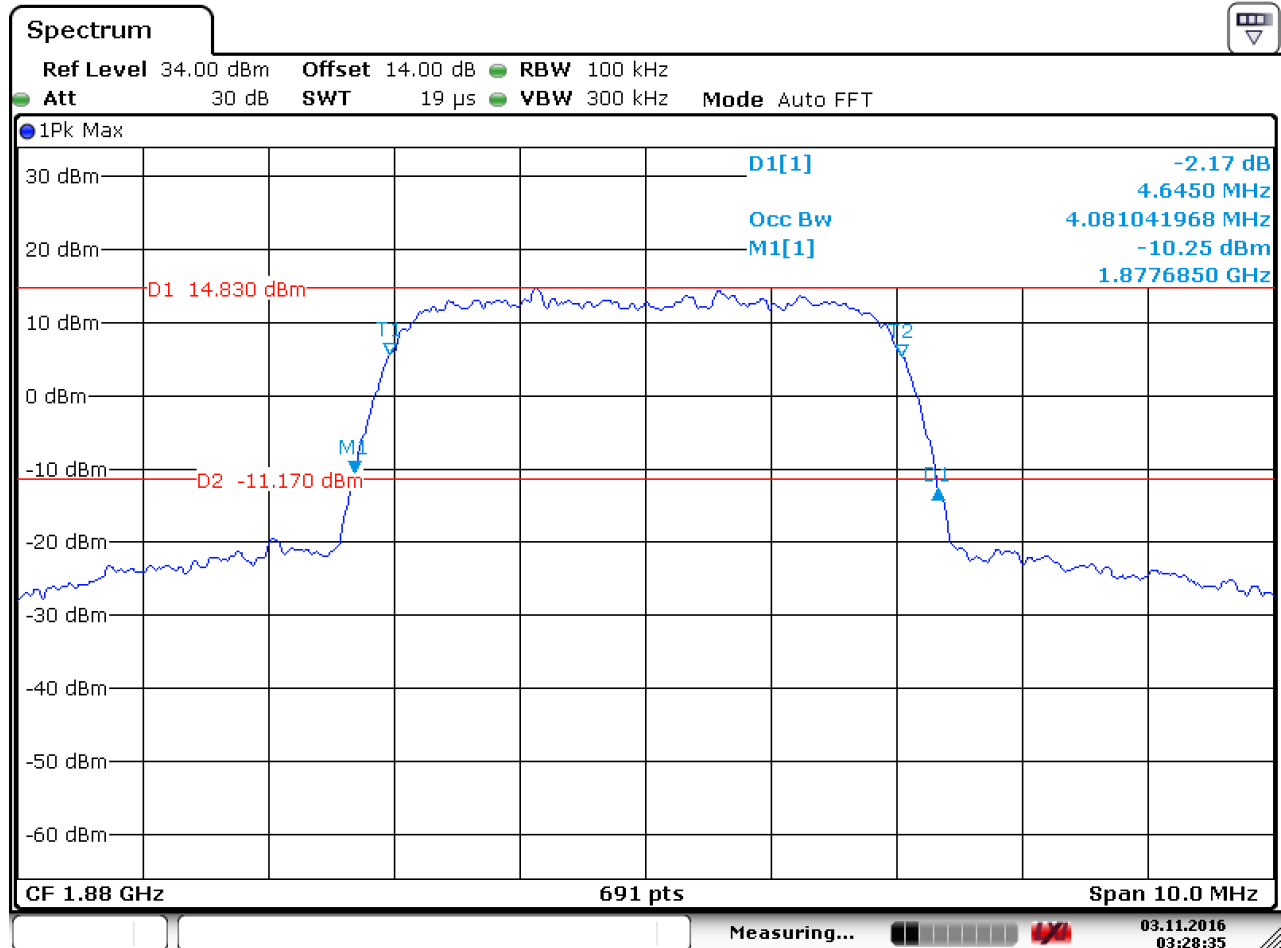


Date: 28.SEP.2016 08:28:14



4.2.2.2 Test Mode = UMTS/ TM1&HSDPA

4.2.2.2.1 Test Channel = MCH

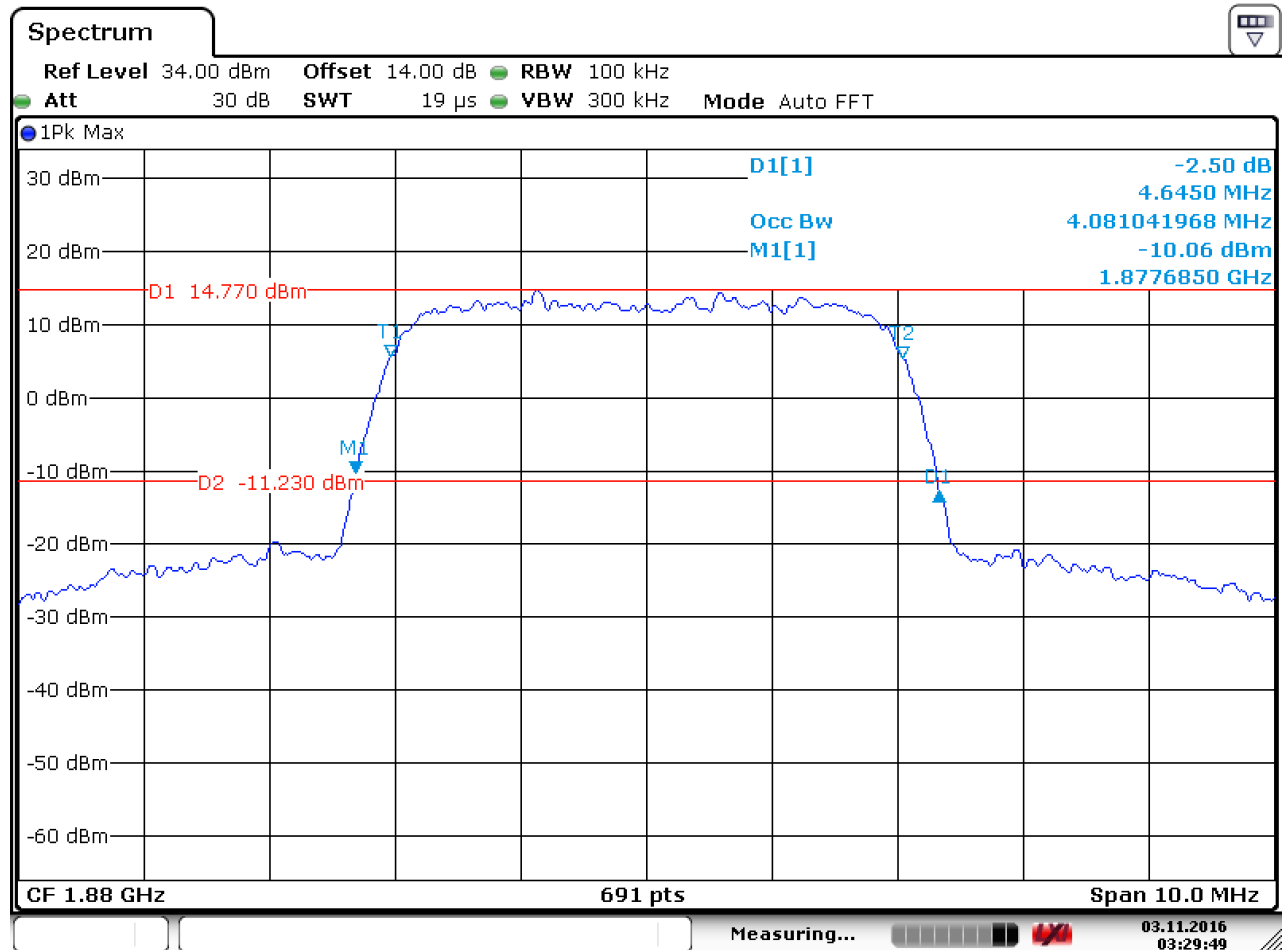


Date: 3.NOV.2016 03:28:36



4.2.2.3 Test Mode = UMTS/ TM1&HSUPA

4.2.2.3.1 Test Channel = MCH



Date: 3.NOV.2016 03:29:50



5 Band Edges Compliance

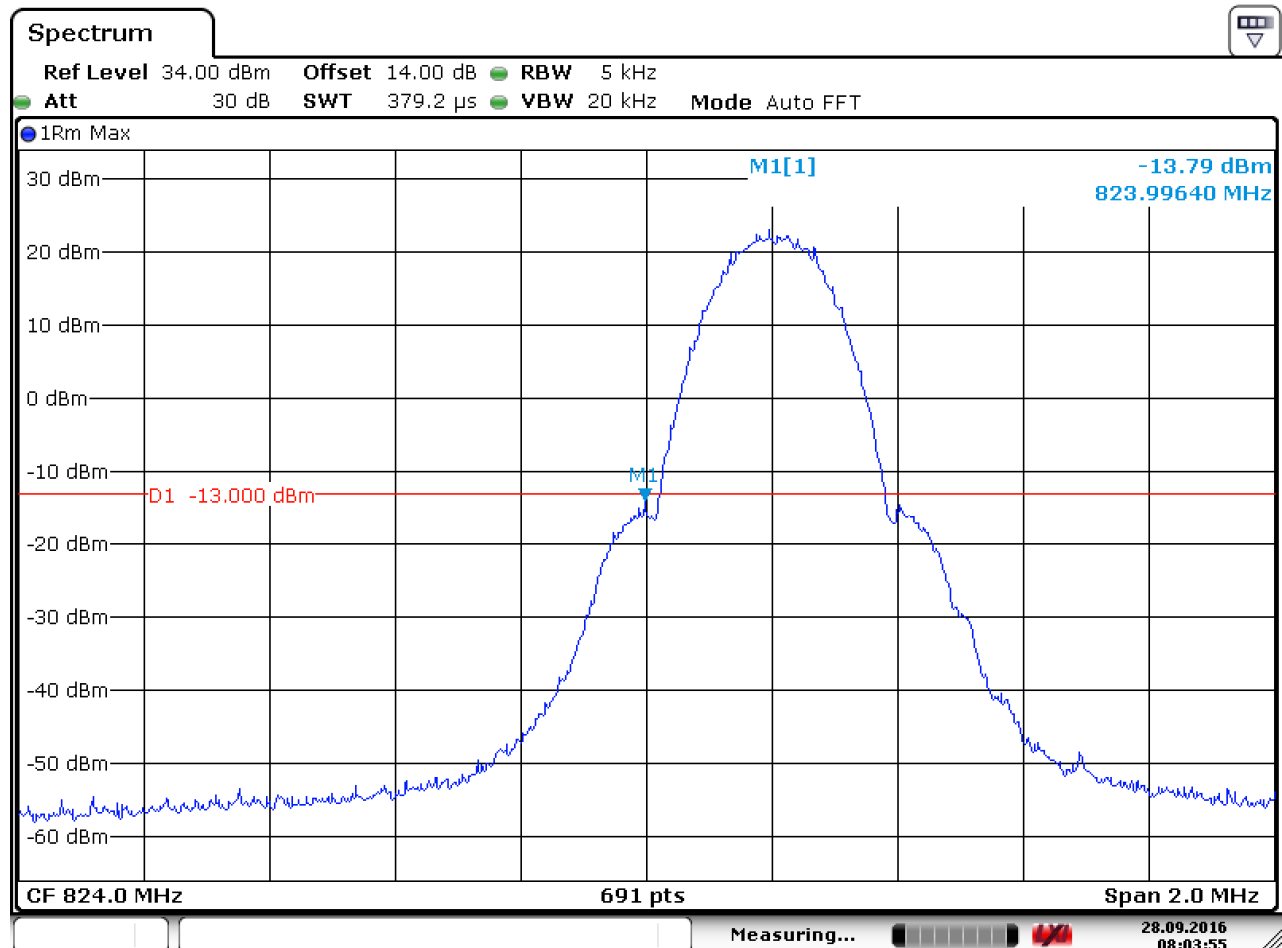
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

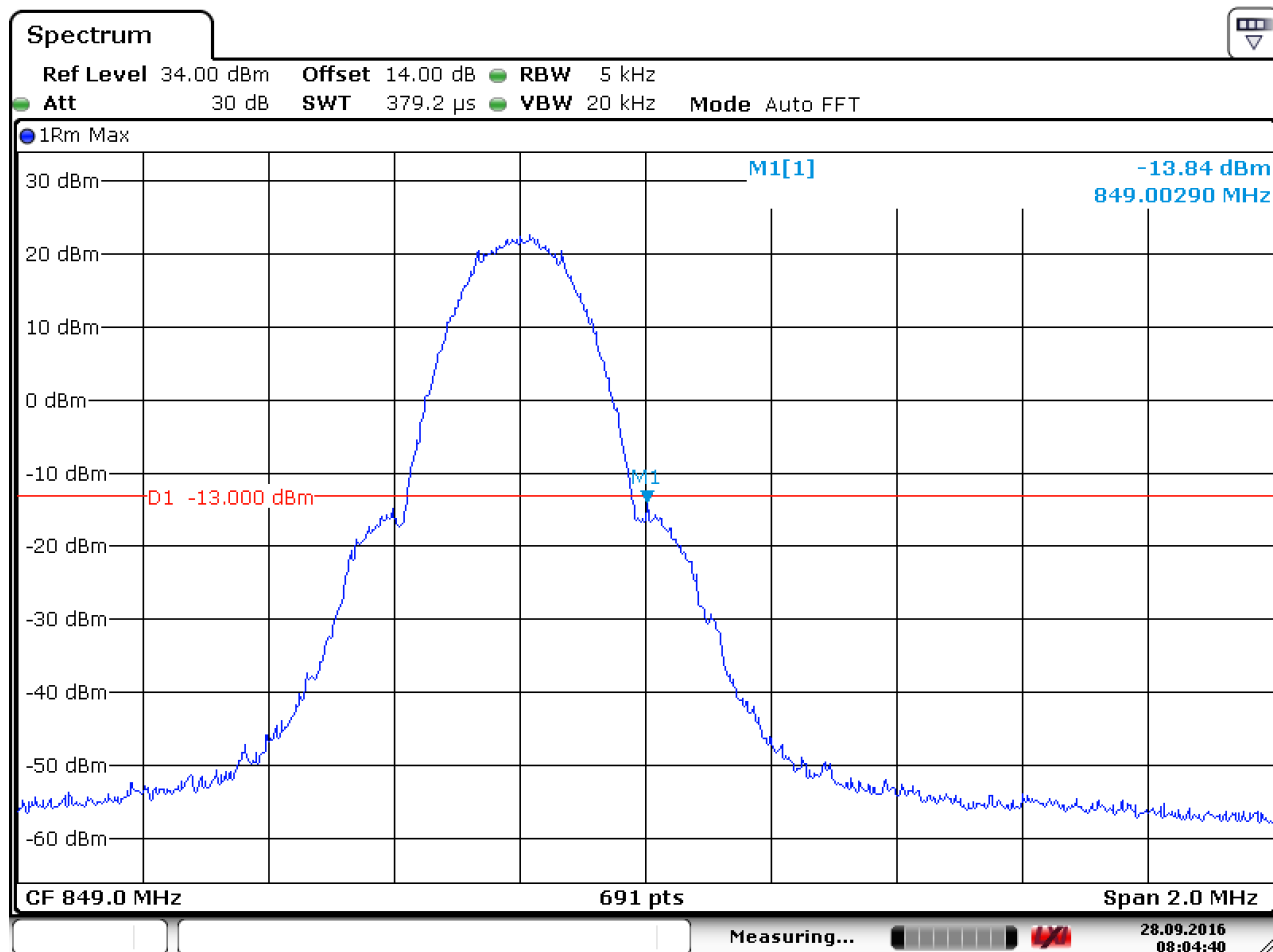
5.1.1.1.1 Test Channel = LCH



Date: 28.SEP.2016 08:03:56



5.1.1.1.2 Test Channel = HCH

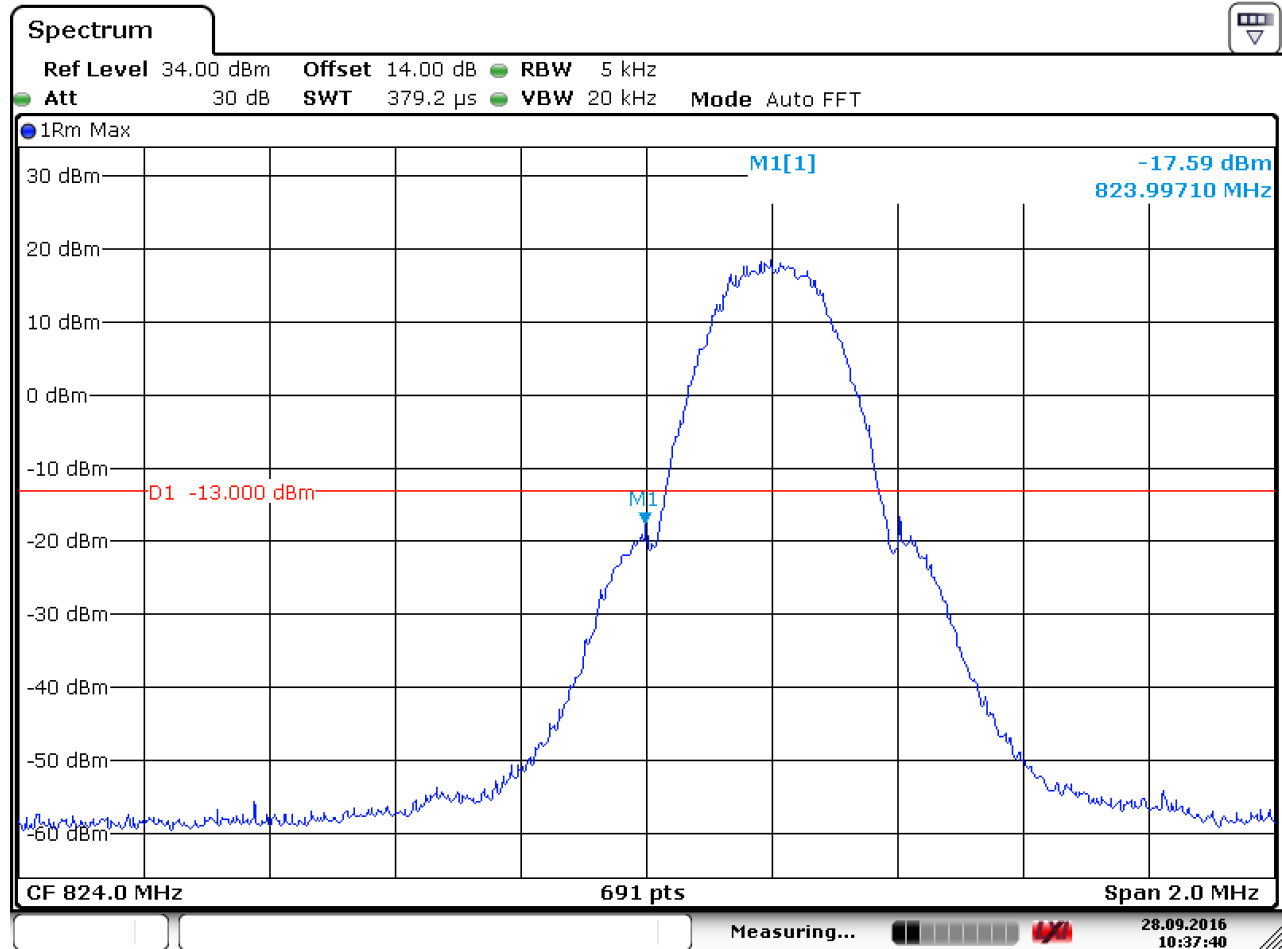


Date: 28.SEP.2016 08:04:41



5.1.1.2 Test Mode = GSM/TM2

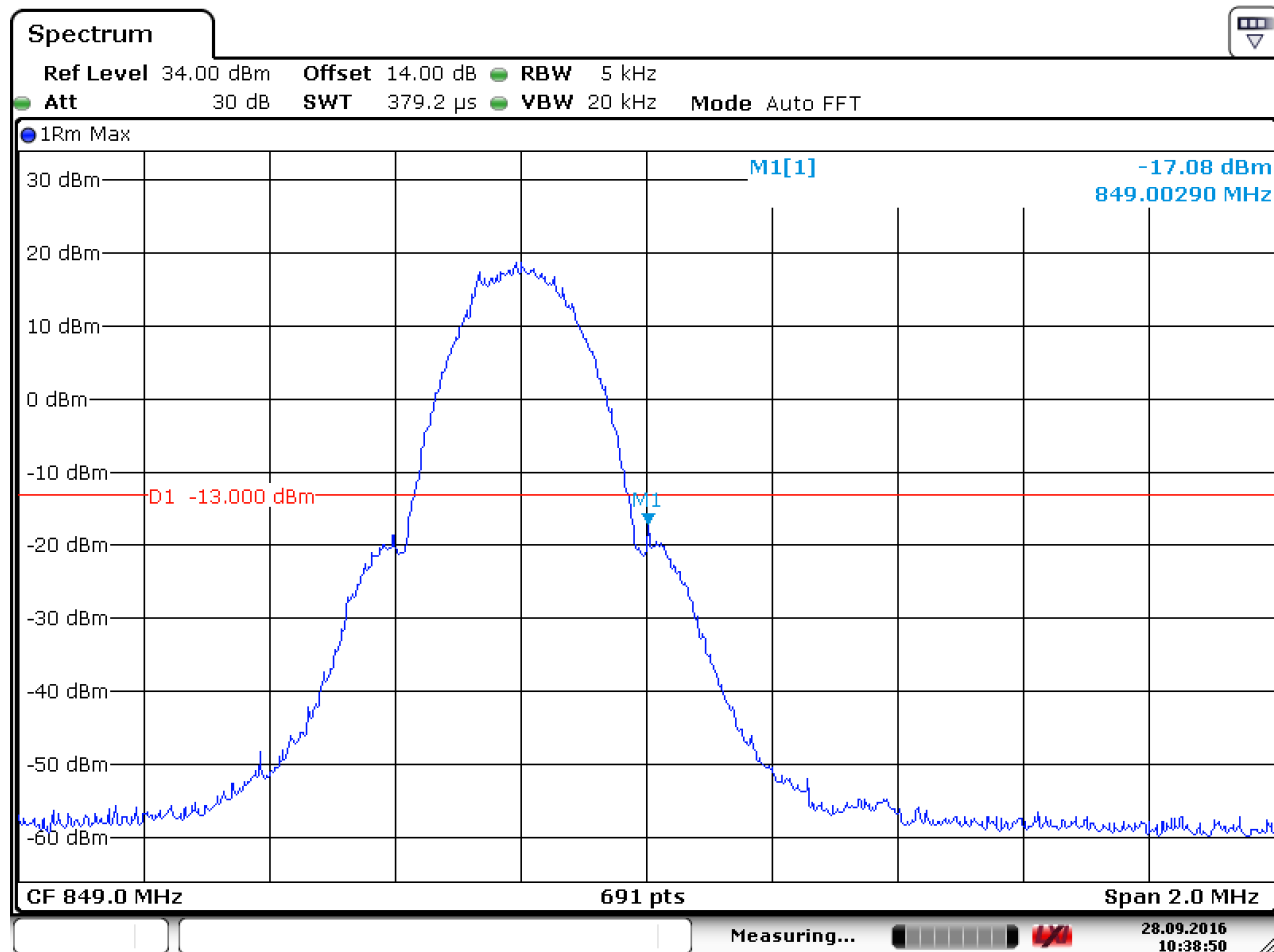
5.1.1.2.1 Test Channel = LCH



Date: 28.SEP.2016 10:37:41



5.1.1.2.2 Test Channel = HCH



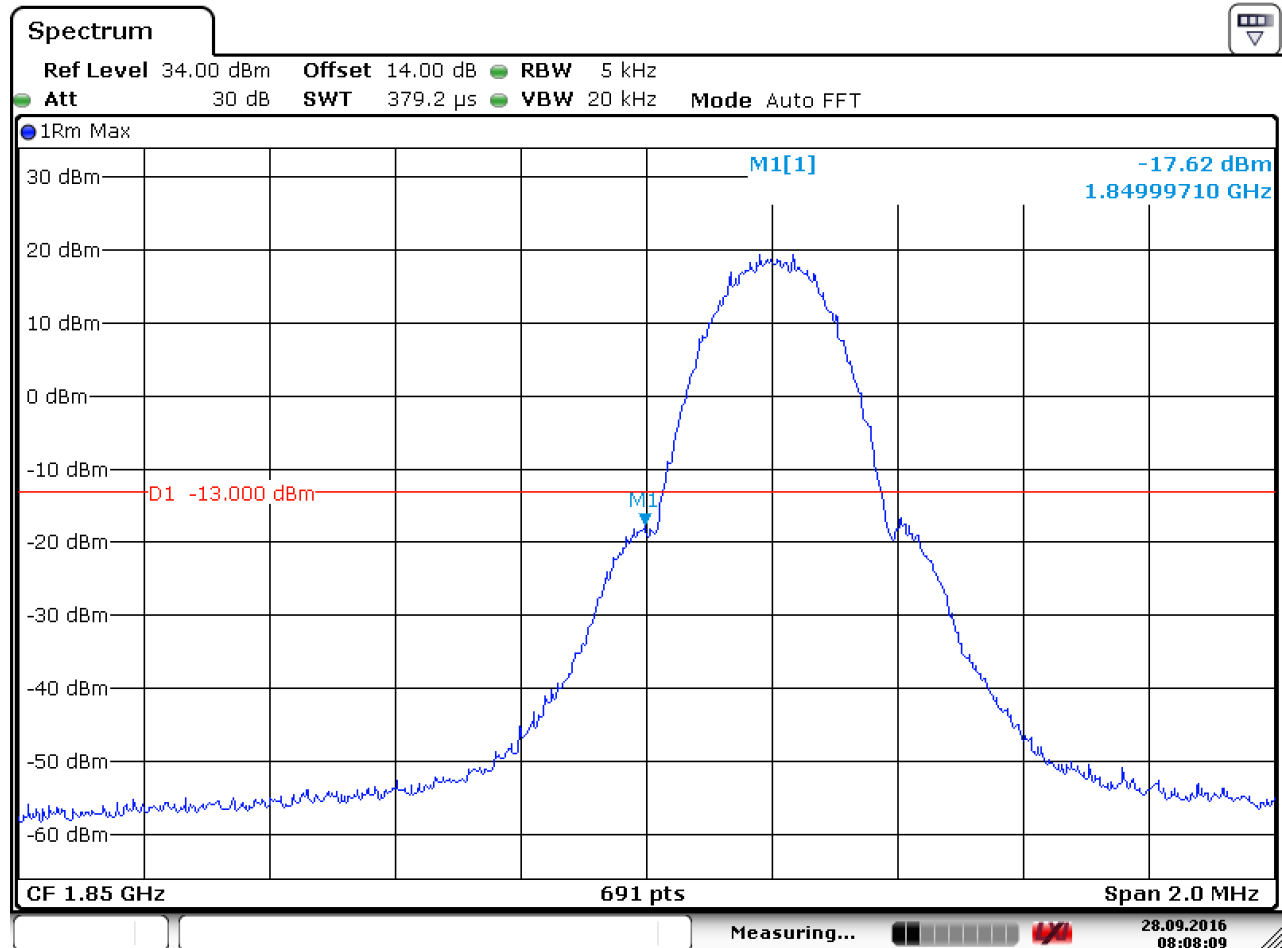
Date: 28.SEP.2016 10:38:50



5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

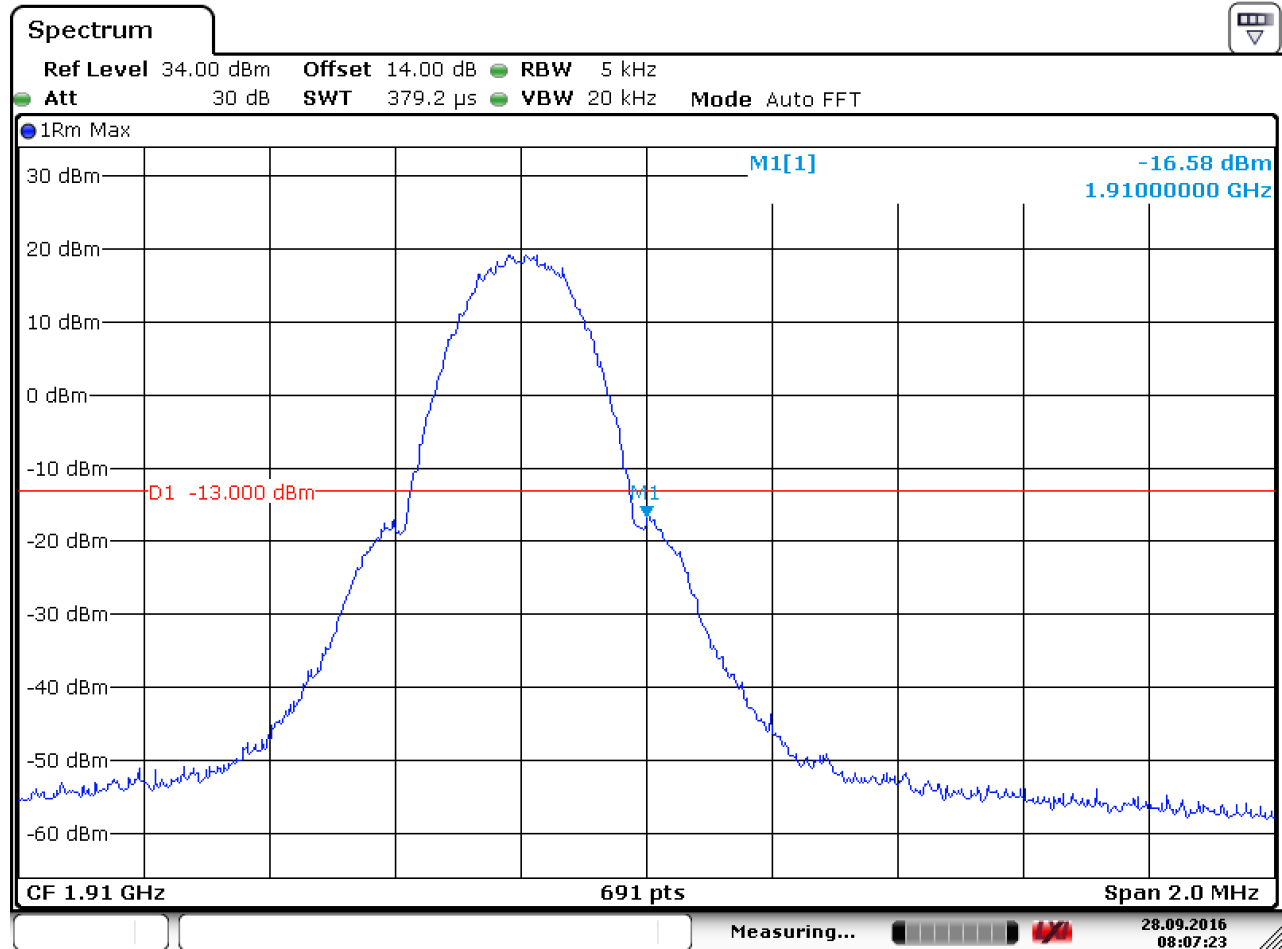
5.1.2.1.1 Test Channel = LCH



Date: 28.SEP.2016 08:08:09



5.1.2.1.2 Test Channel = HCH

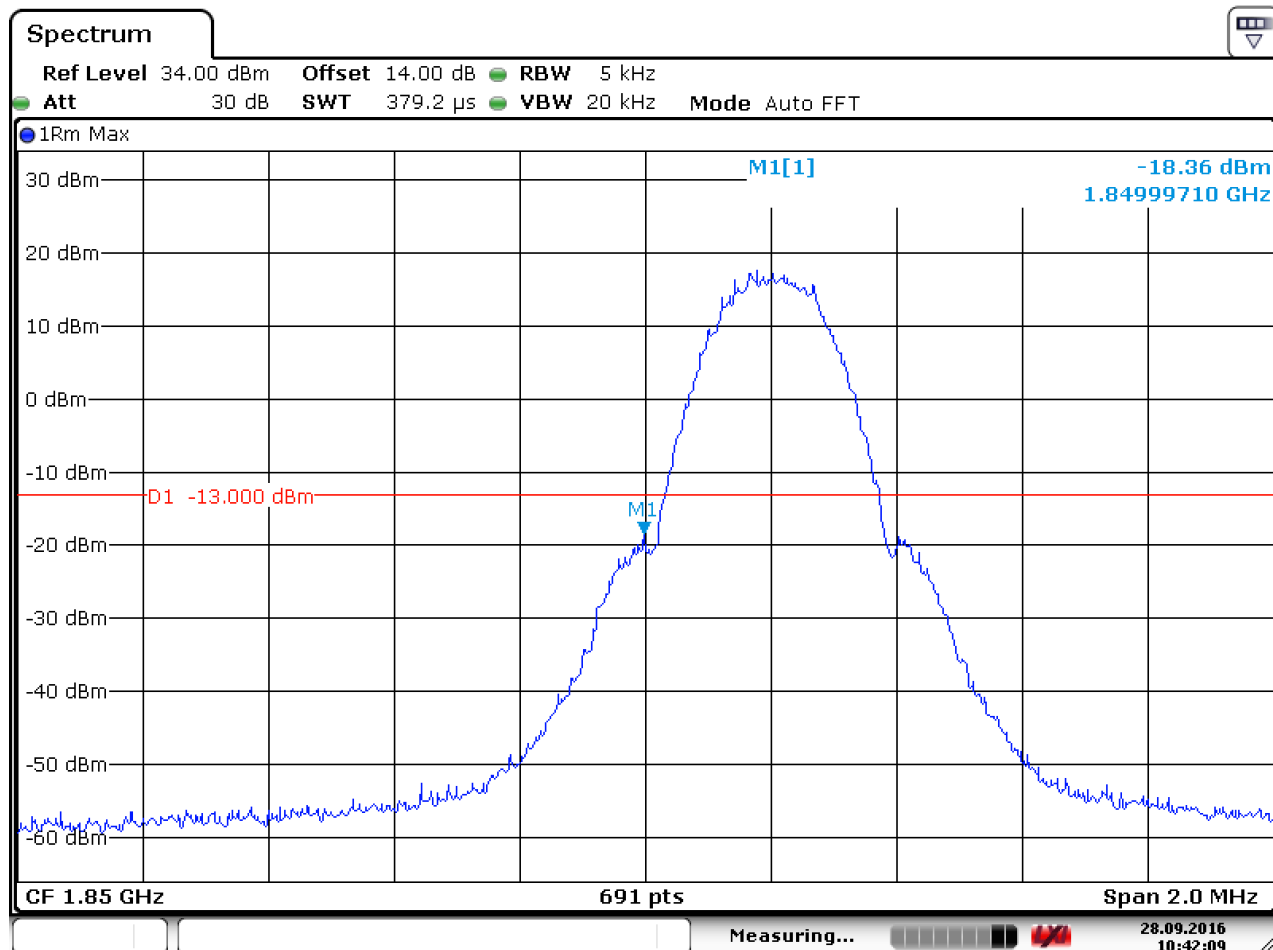


Date: 28.SEP.2016 08:07:23



5.1.2.2 Test Mode = GSM/TM2

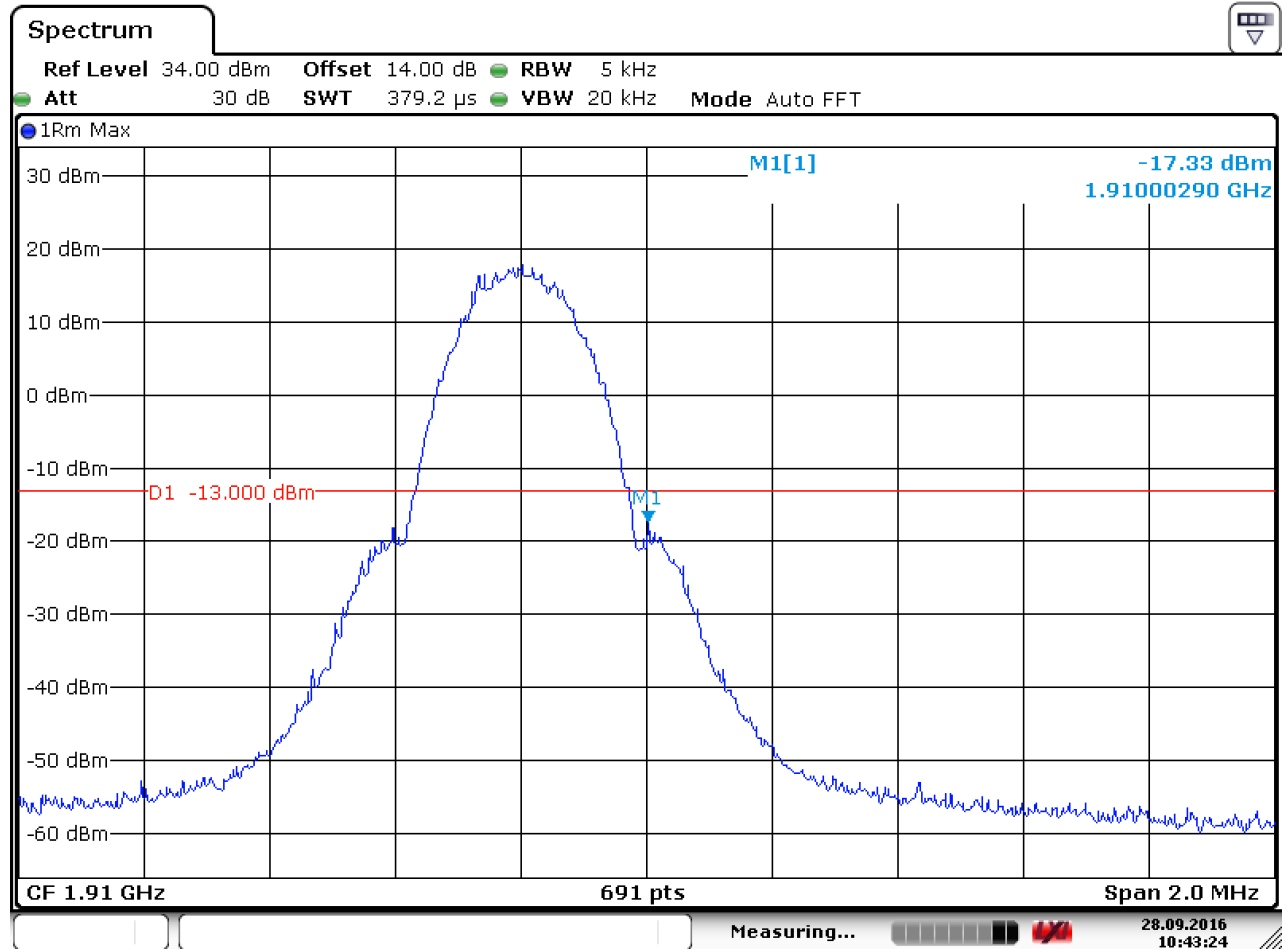
5.1.2.2.1 Test Channel = LCH



Date: 28.SEP.2016 10:42:10



5.1.2.2.2 Test Channel = HCH



Date: 28.SEP.2016 10:43:25

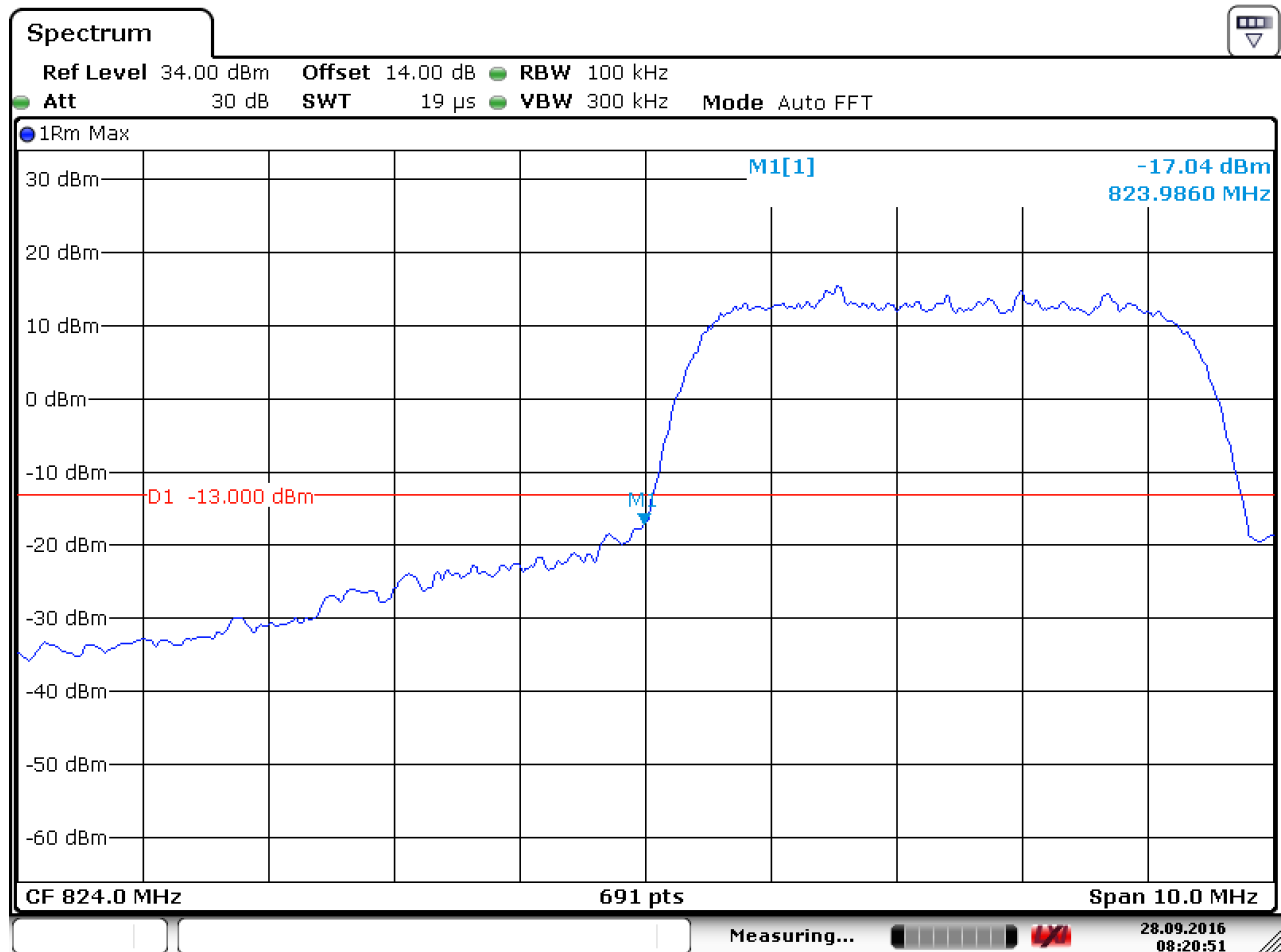


5.2 For WCDMA

5.2.1 Test Band= WCDMA 850

5.2.1.1 Test Mode = UMTS/TM1

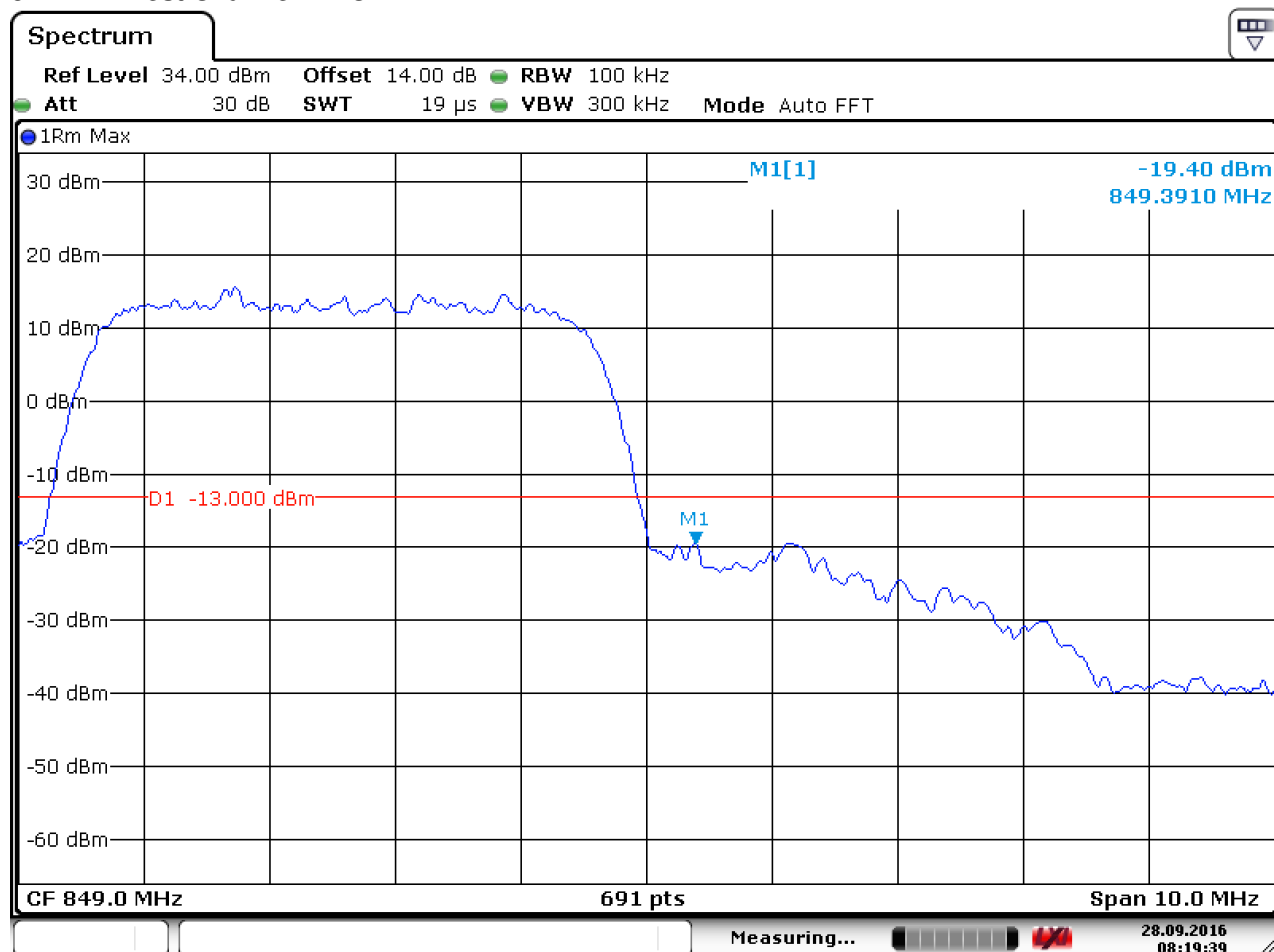
5.2.1.1.1 Test Channel = LCH



Date: 28.SEP.2016 08:20:52



5.2.1.1.2 Test Channel = HCH



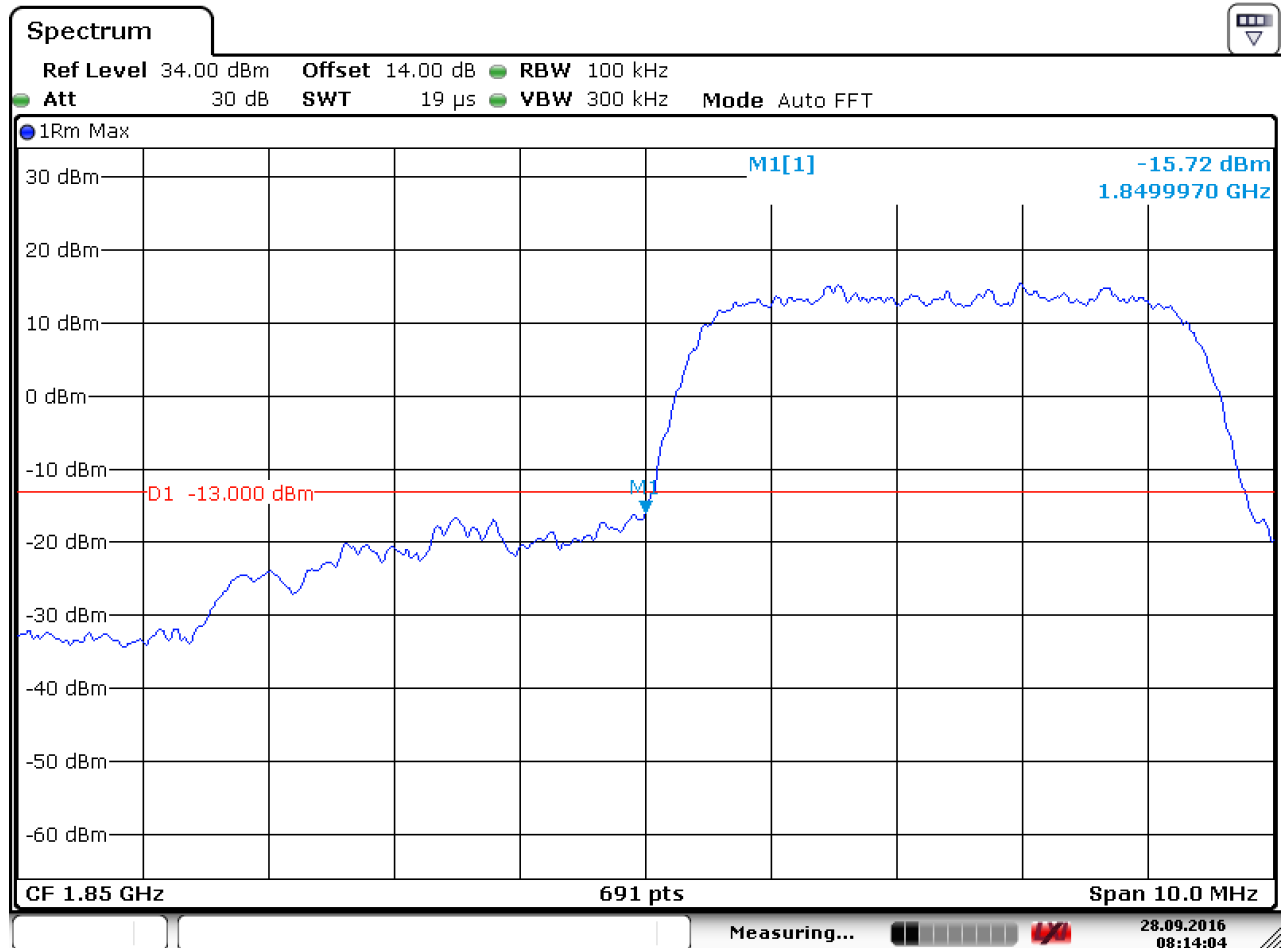
Date: 28.SEP.2016 08:19:40



5.2.2 Test Band= WCDMA 1900

5.2.2.1 Test Mode = UMTS/TM1

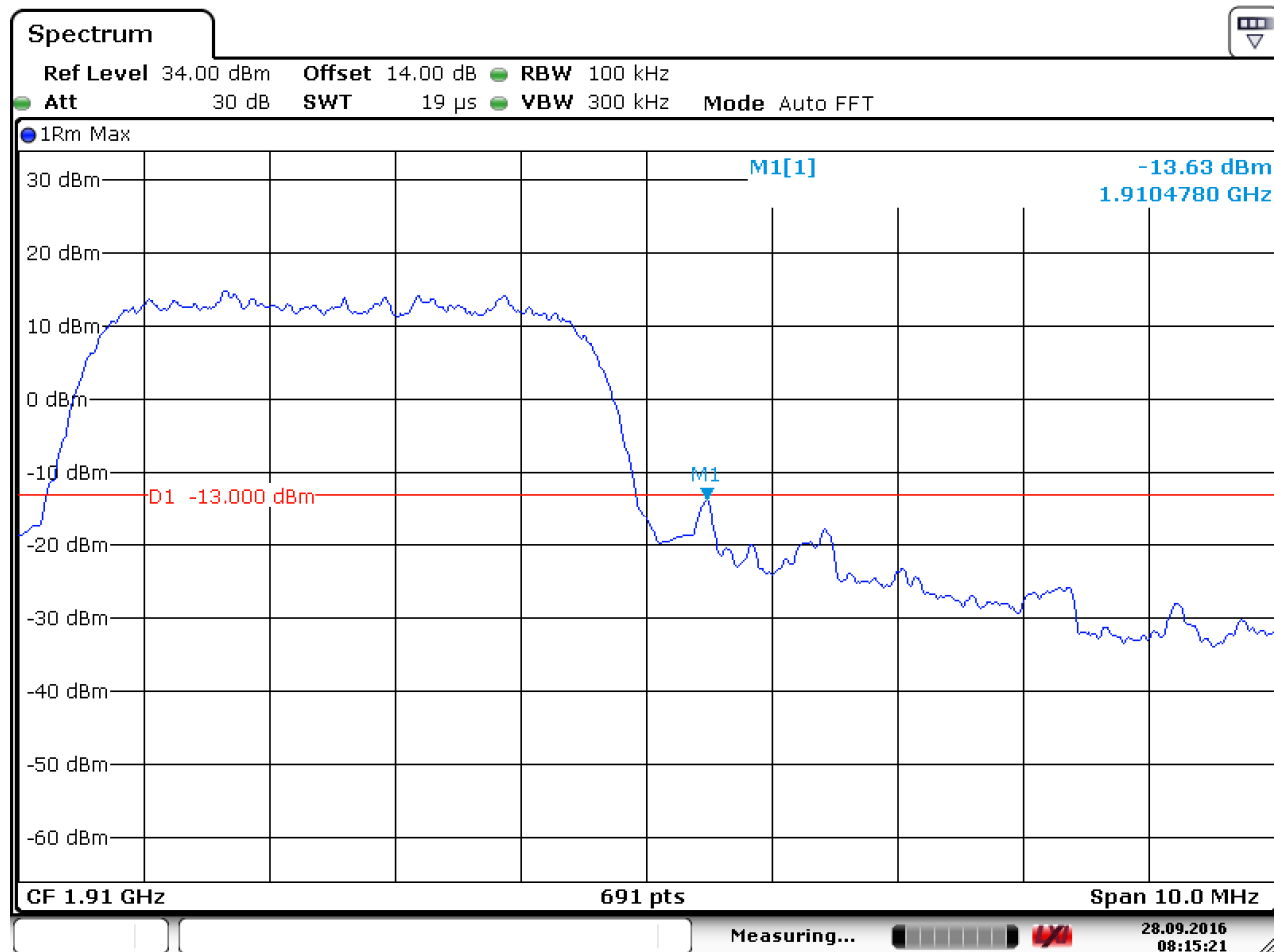
5.2.2.1.1 Test Channel = LCH



Date: 28.SEP.2016 08:14:04



5.2.2.1.2 Test Channel = HCH



Date: 28.SEP.2016 08:15:21



6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

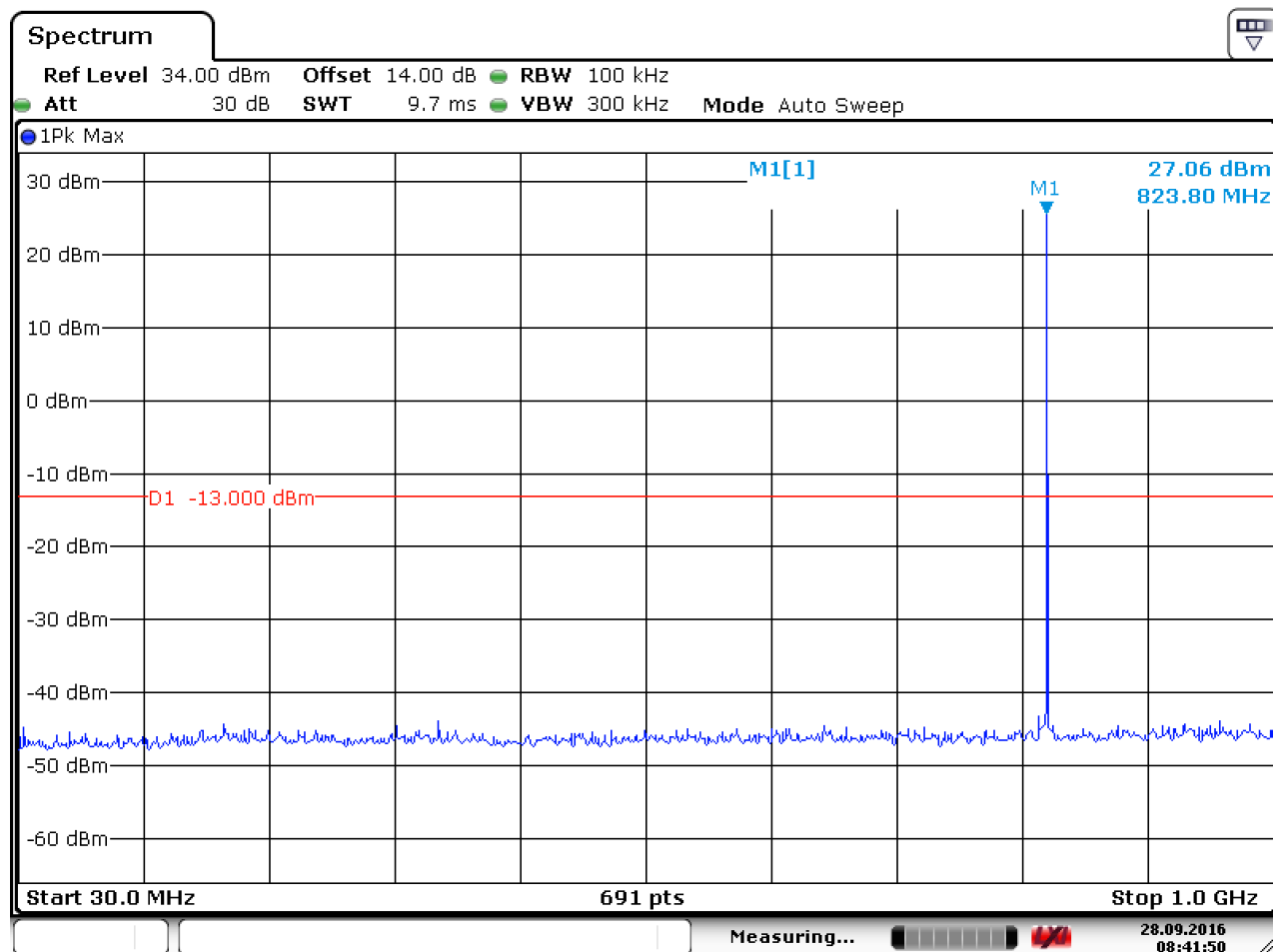
6.1 For GSM

6.1.1 Test Band = GSM1900

6.1.1.1 Test Mode = UMTS/TM1



6.1.1.1.1 Test Channel = LCH



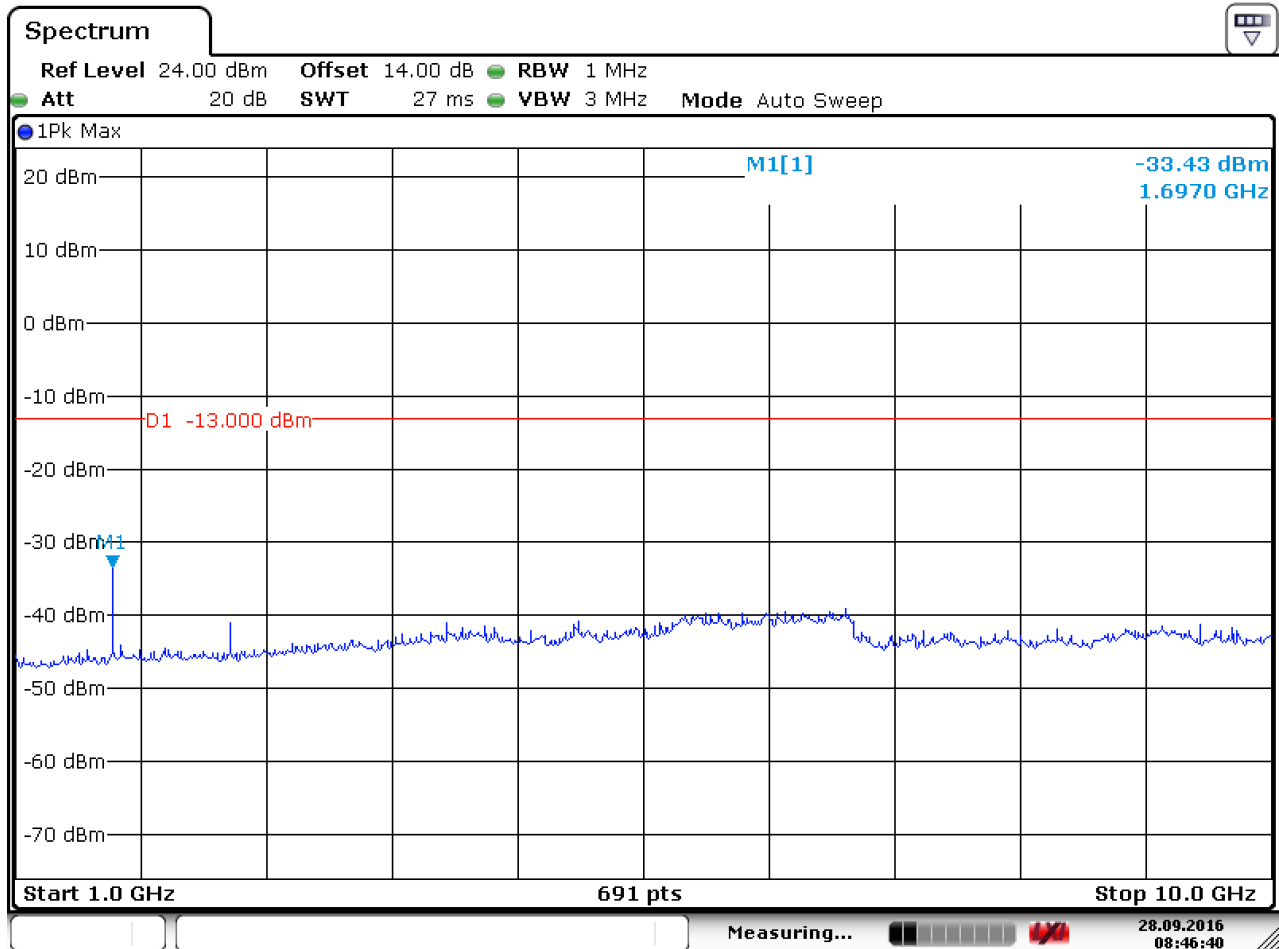
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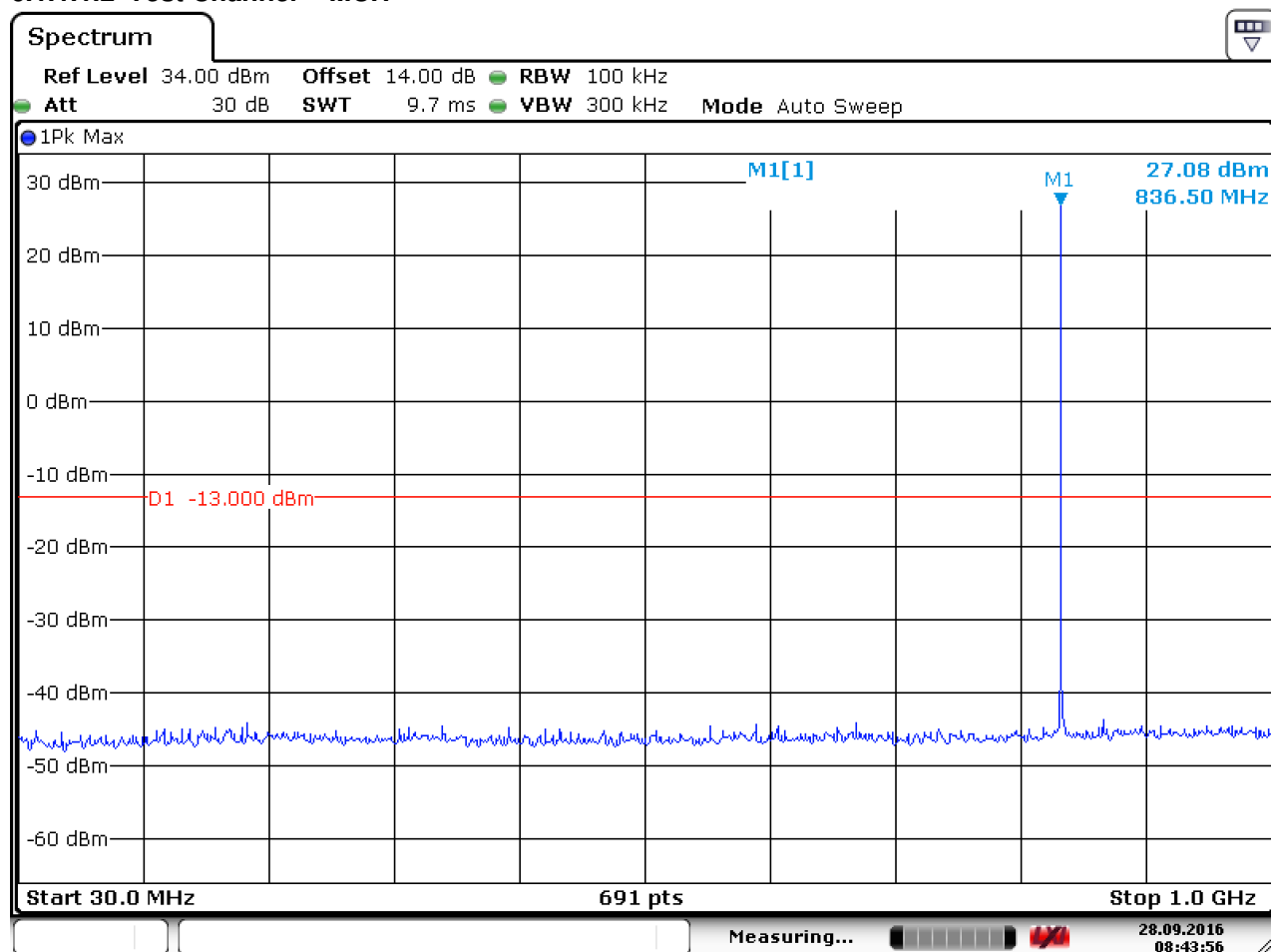


Date: 28.SEP.2016 08:46:40

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6.1.1.1.2 Test Channel = MCH



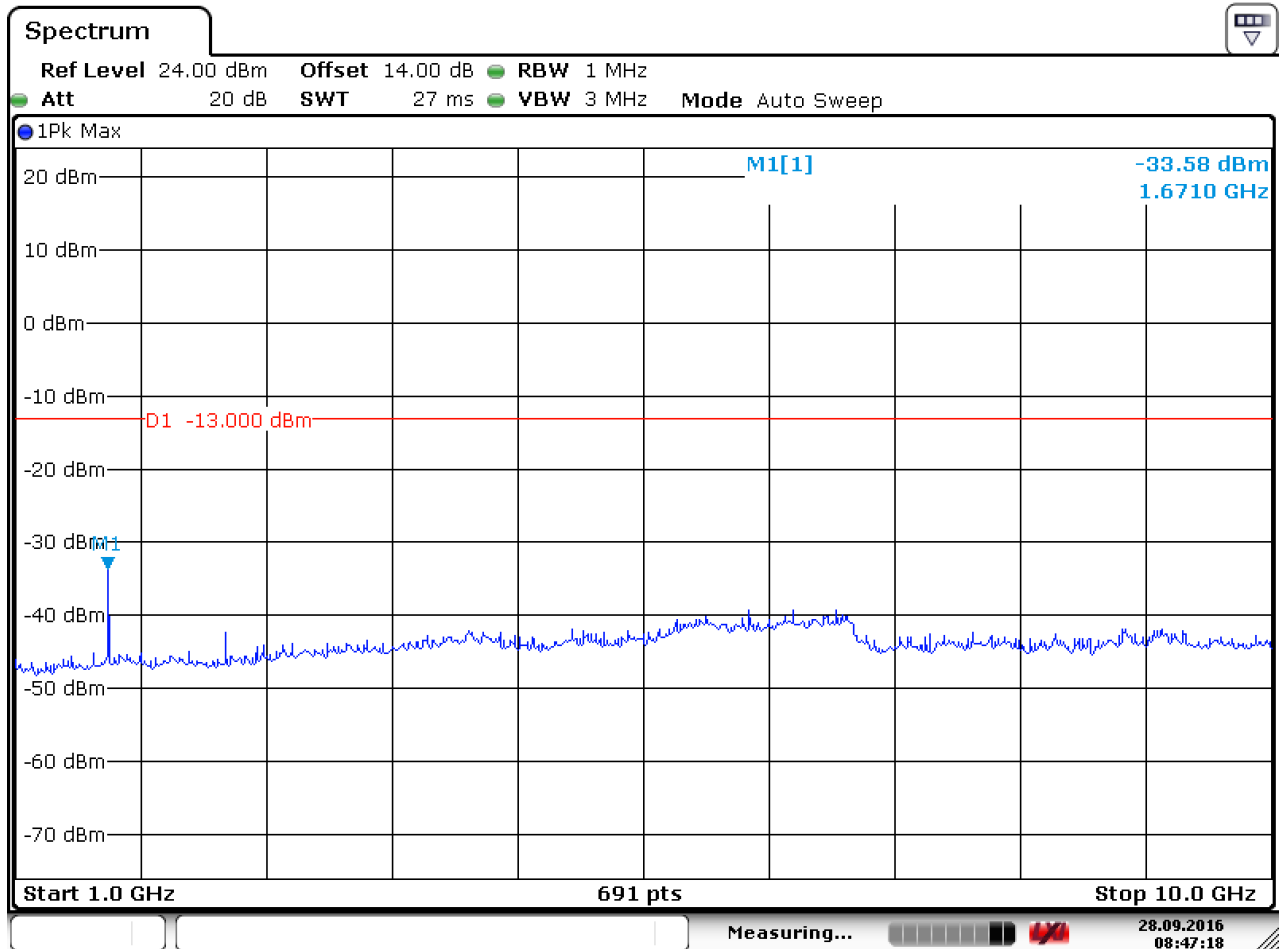
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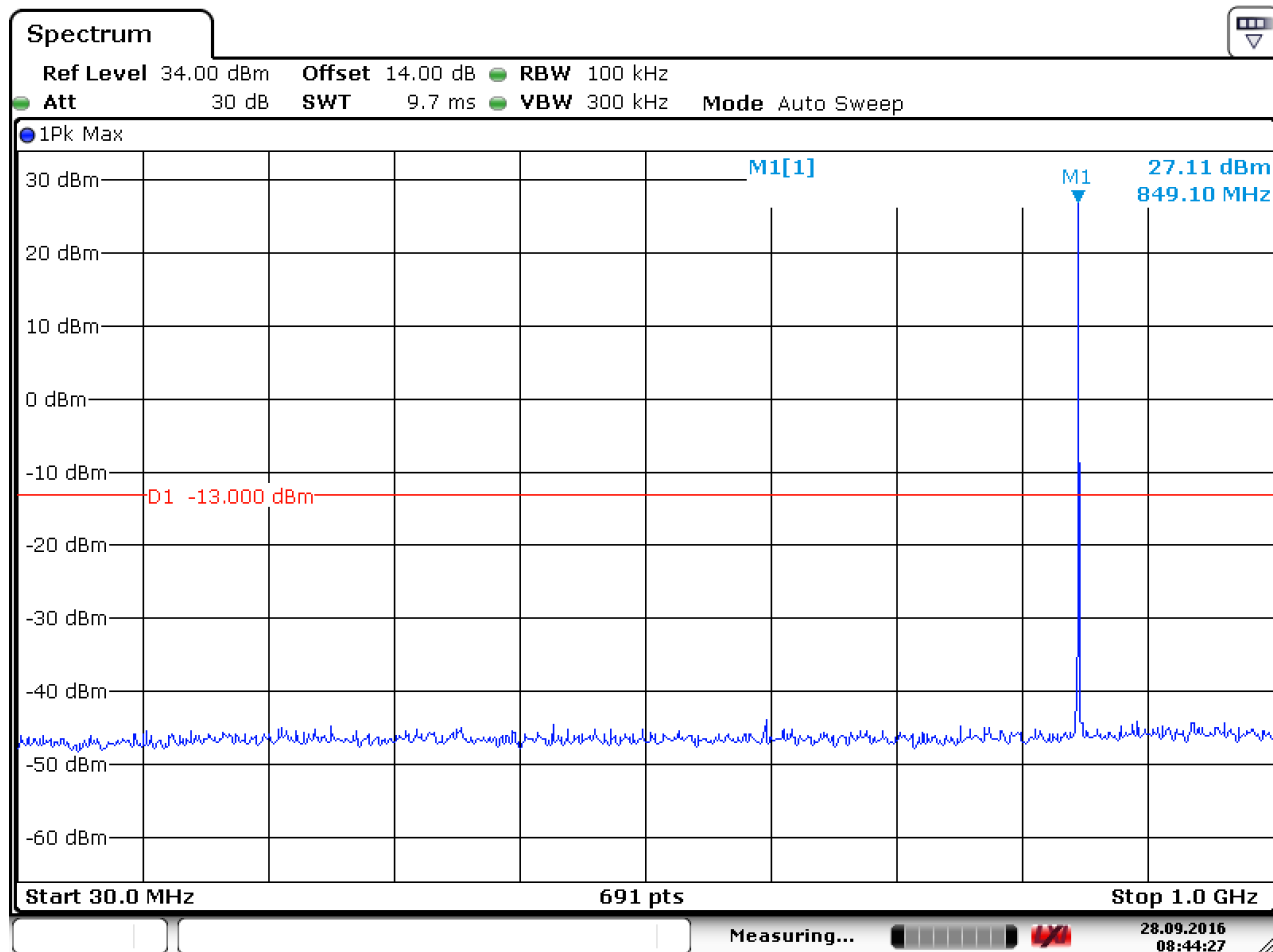


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6.1.1.1.3 Test Channel = HCH



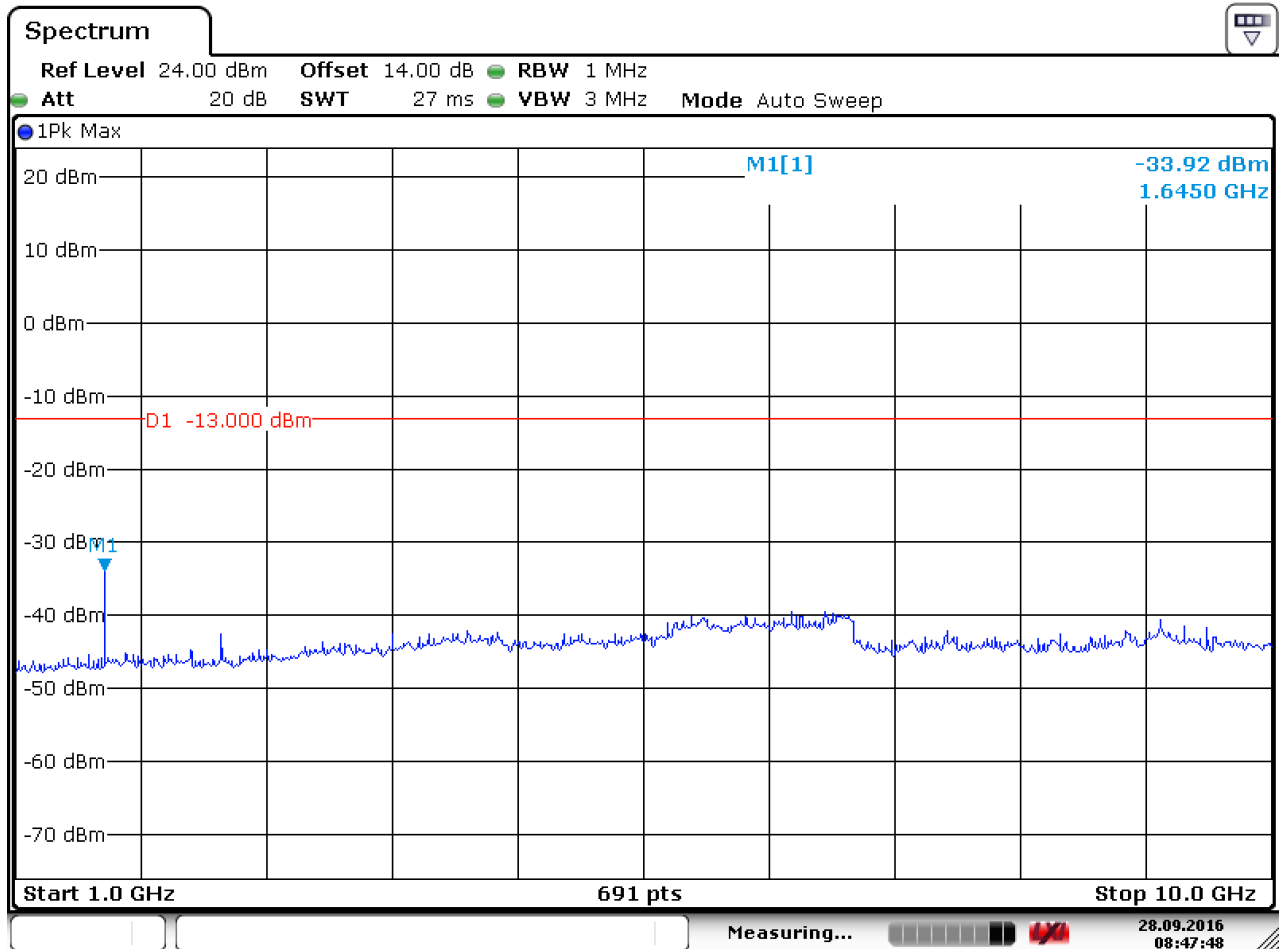
Date: 28.SEP.2016 08:44:27



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Date: 28.SEP.2016 08:47:48

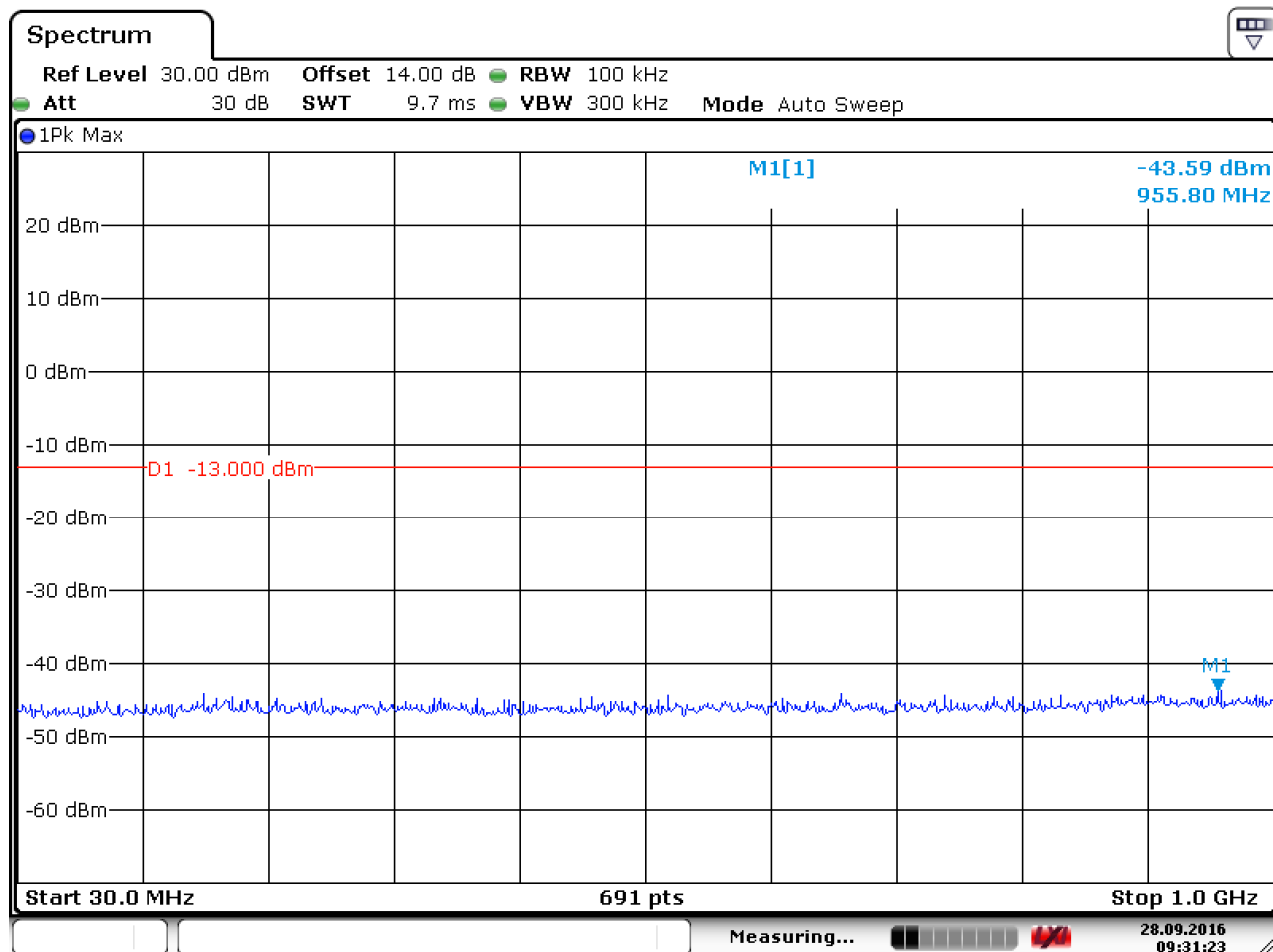
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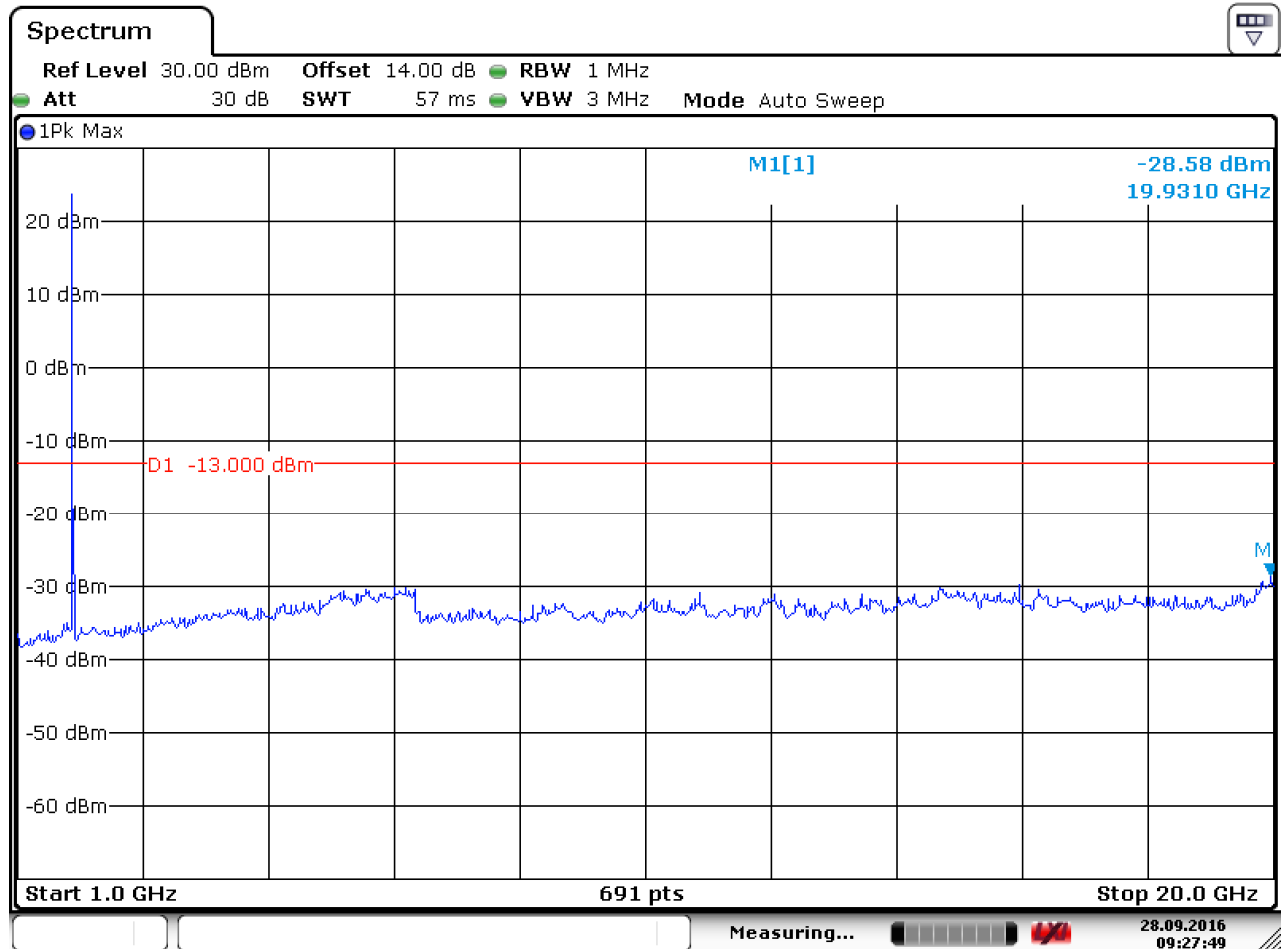
6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = UMTS/TM1

6.1.2.1.1 Test Channel = LCH



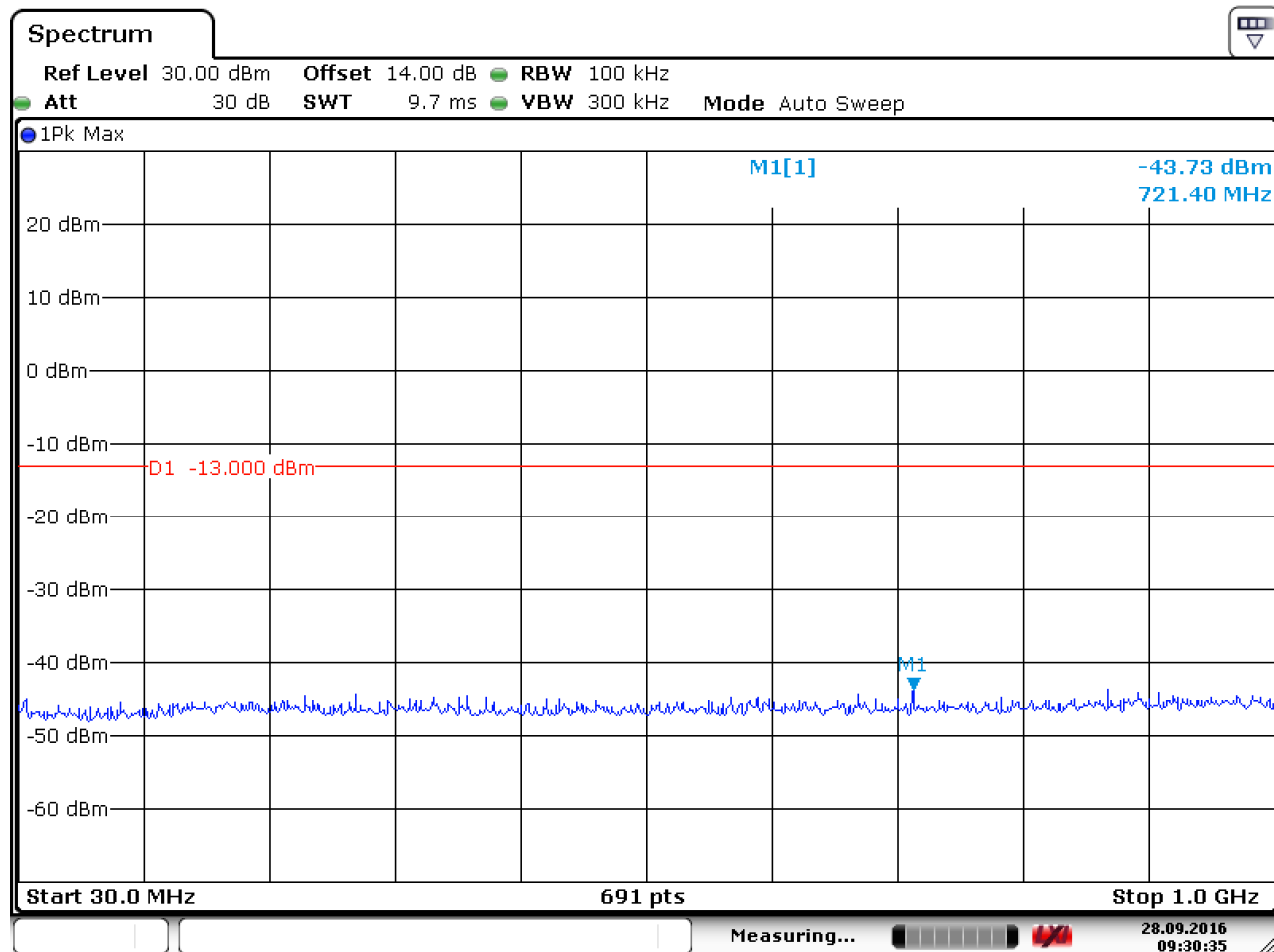
Date: 28.SEP.2016 09:31:23



Date: 28.SEP.2016 09:27:49



6.1.2.1.2 Test Channel = MCH



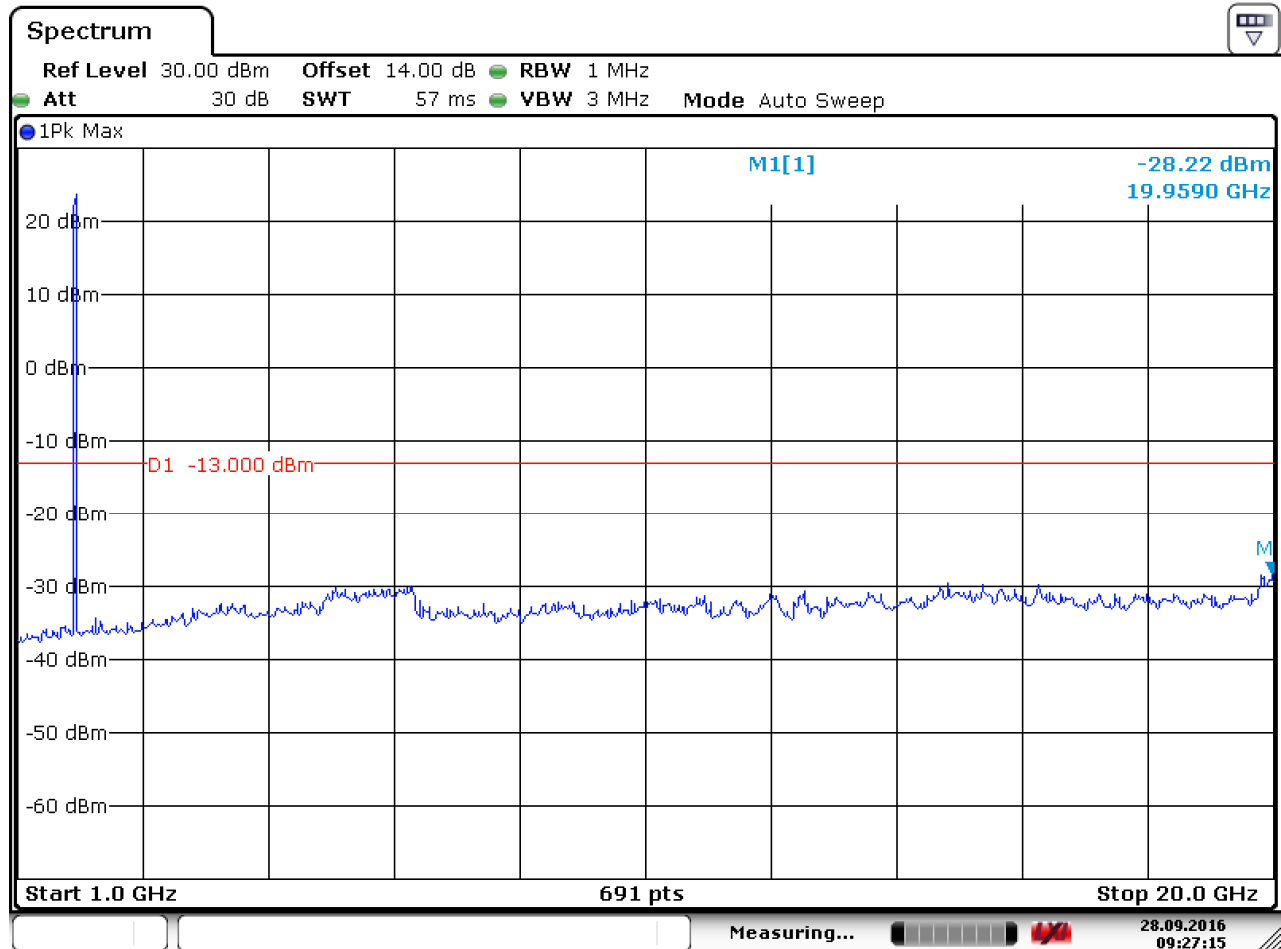
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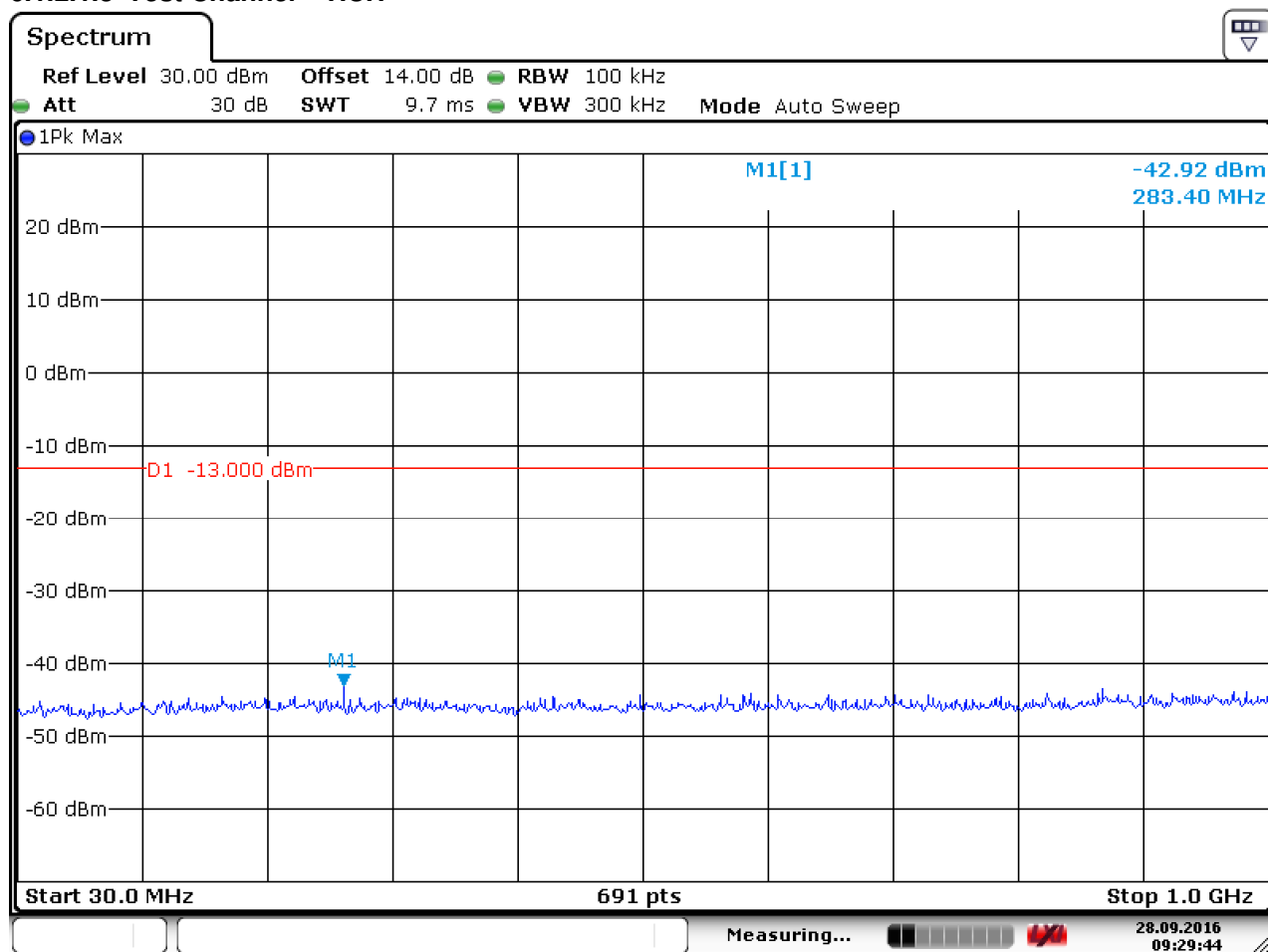


Date: 28.SEP.2016 09:27:16

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6.1.2.1.3 Test Channel = HCH



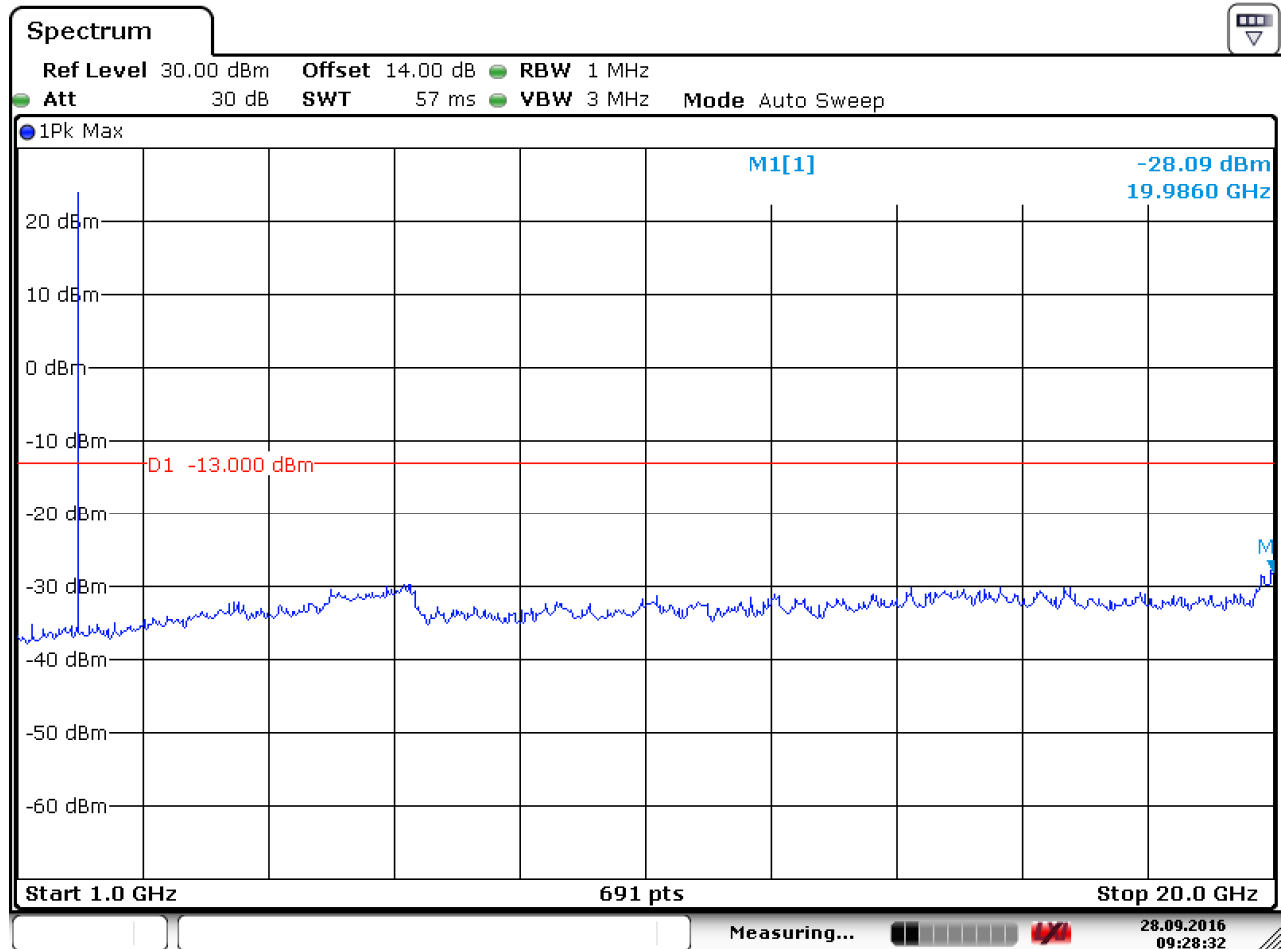
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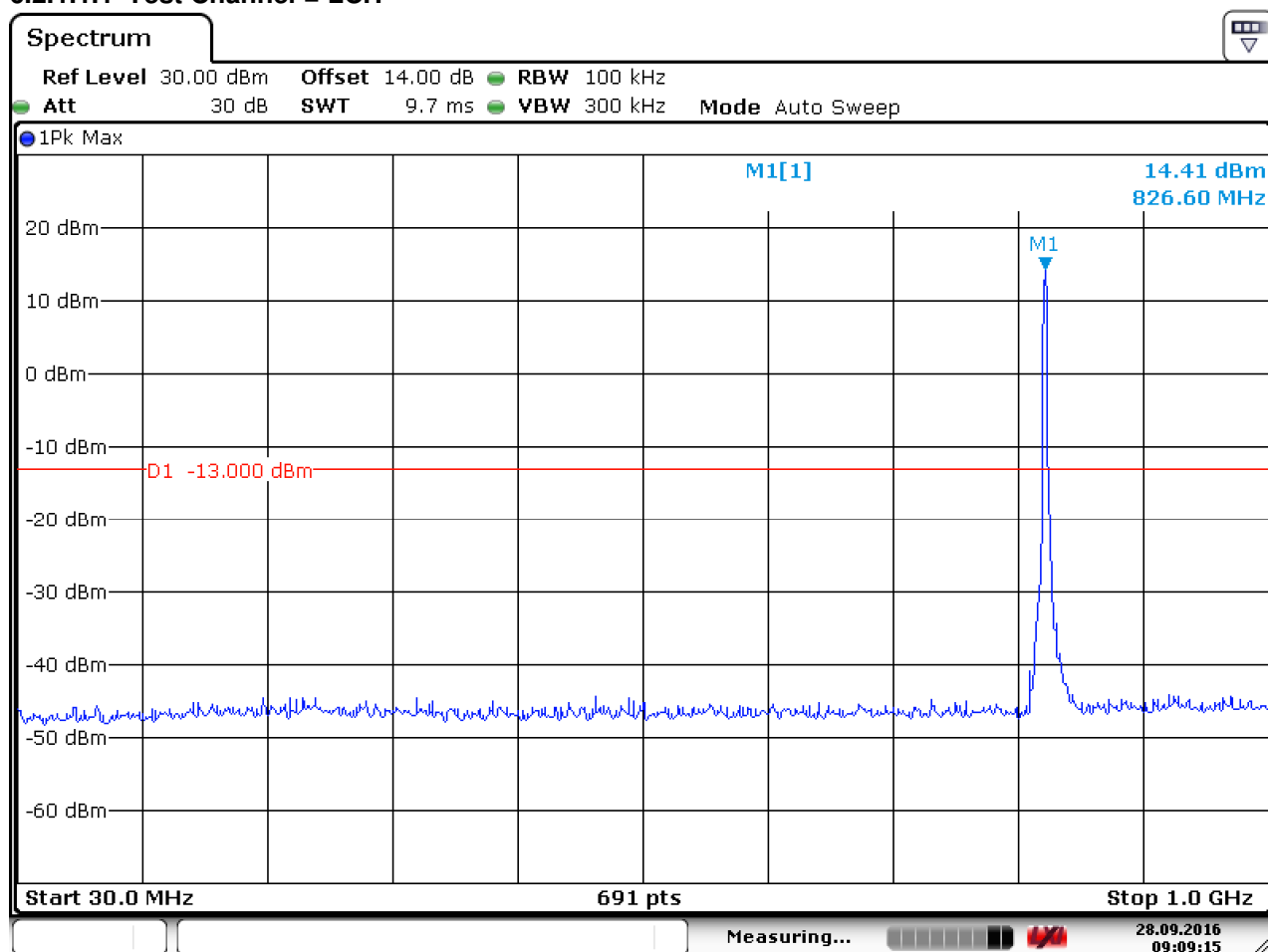


6.2 For WCDMA

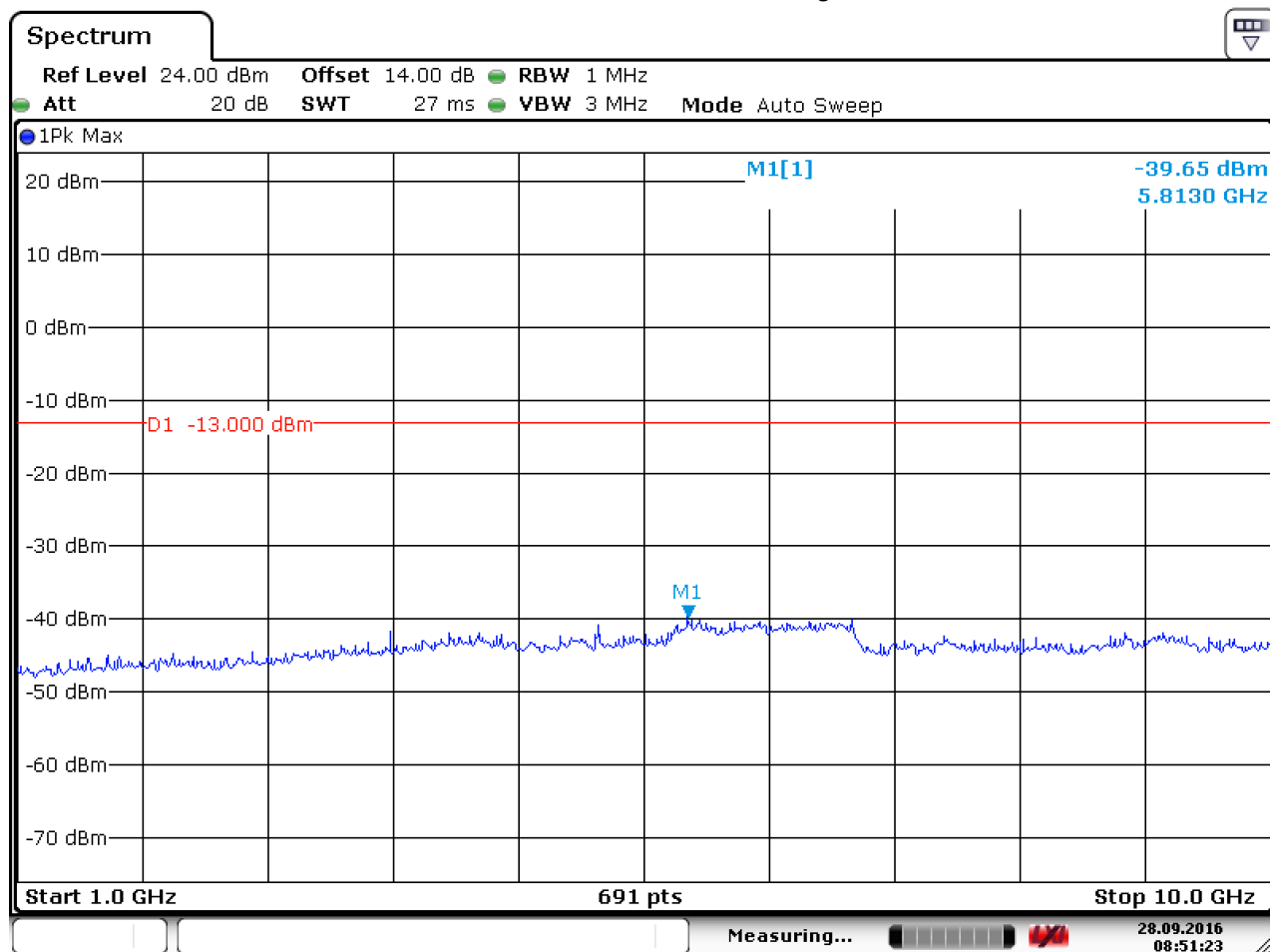
6.2.1 Test Band = WCDMA850

6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



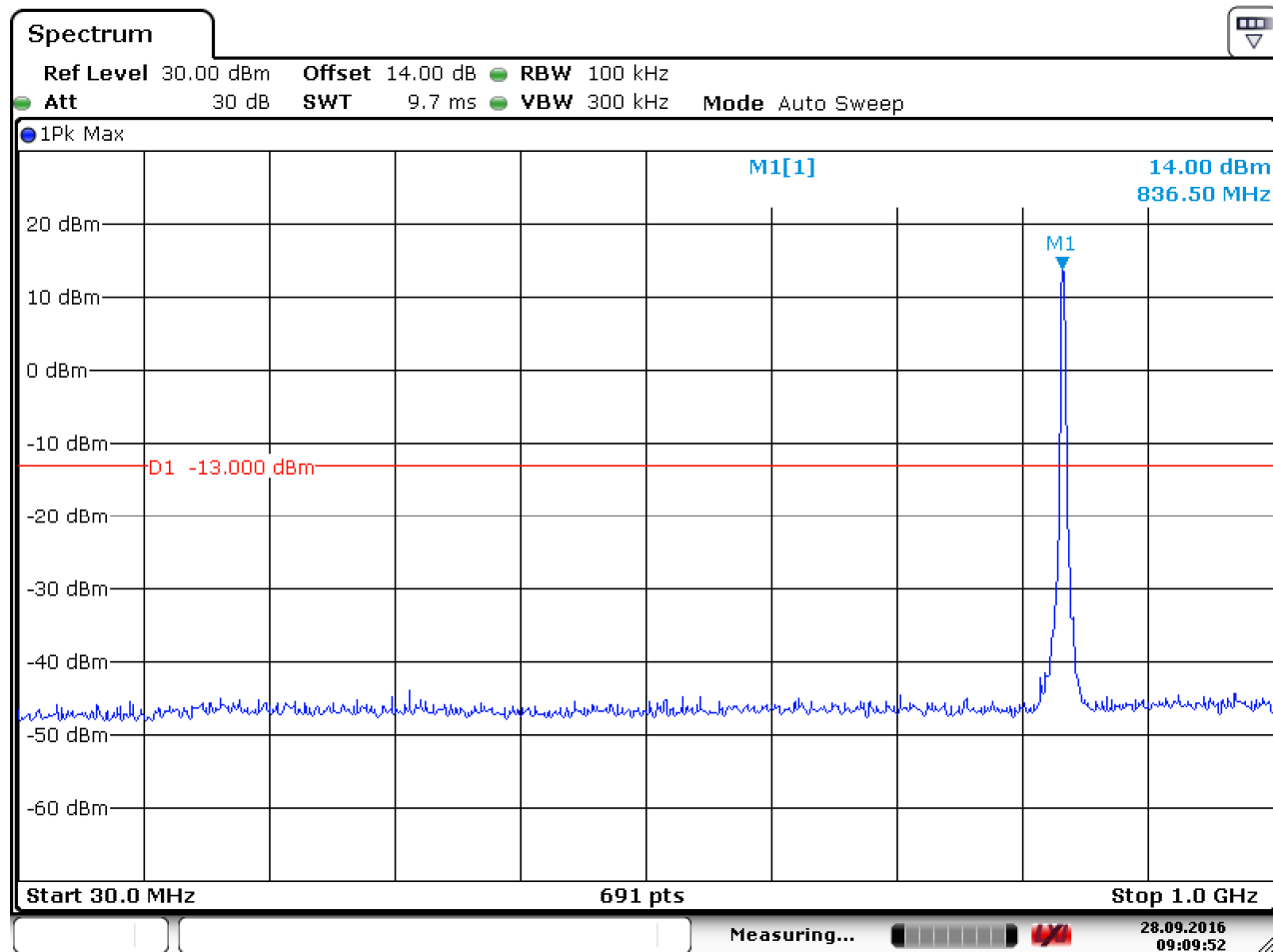
Date: 28.SEP.2016 09:09:16



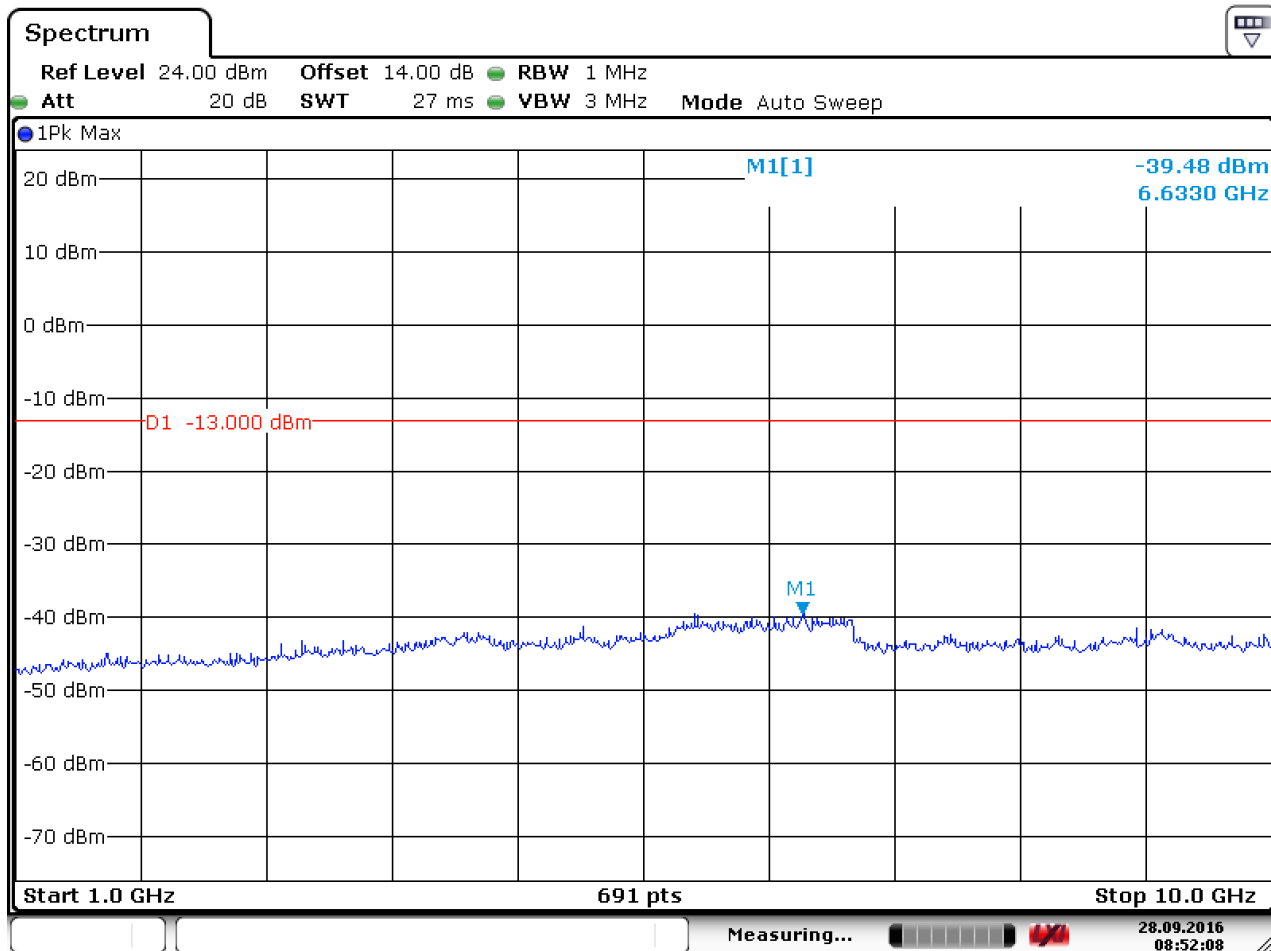
Date: 28.SEP.2016 08:51:24



6.2.1.1.2 Test Channel = MCH



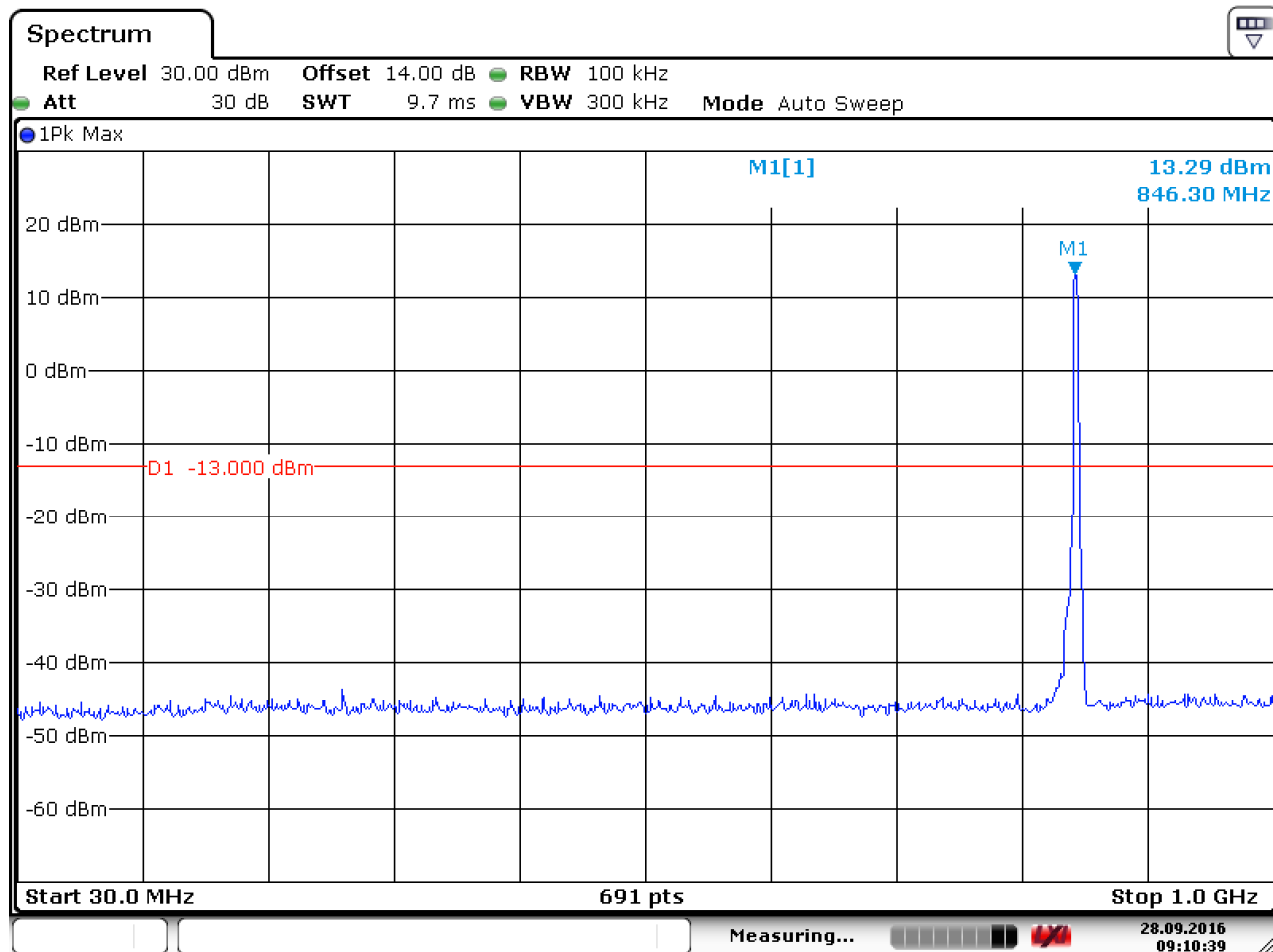
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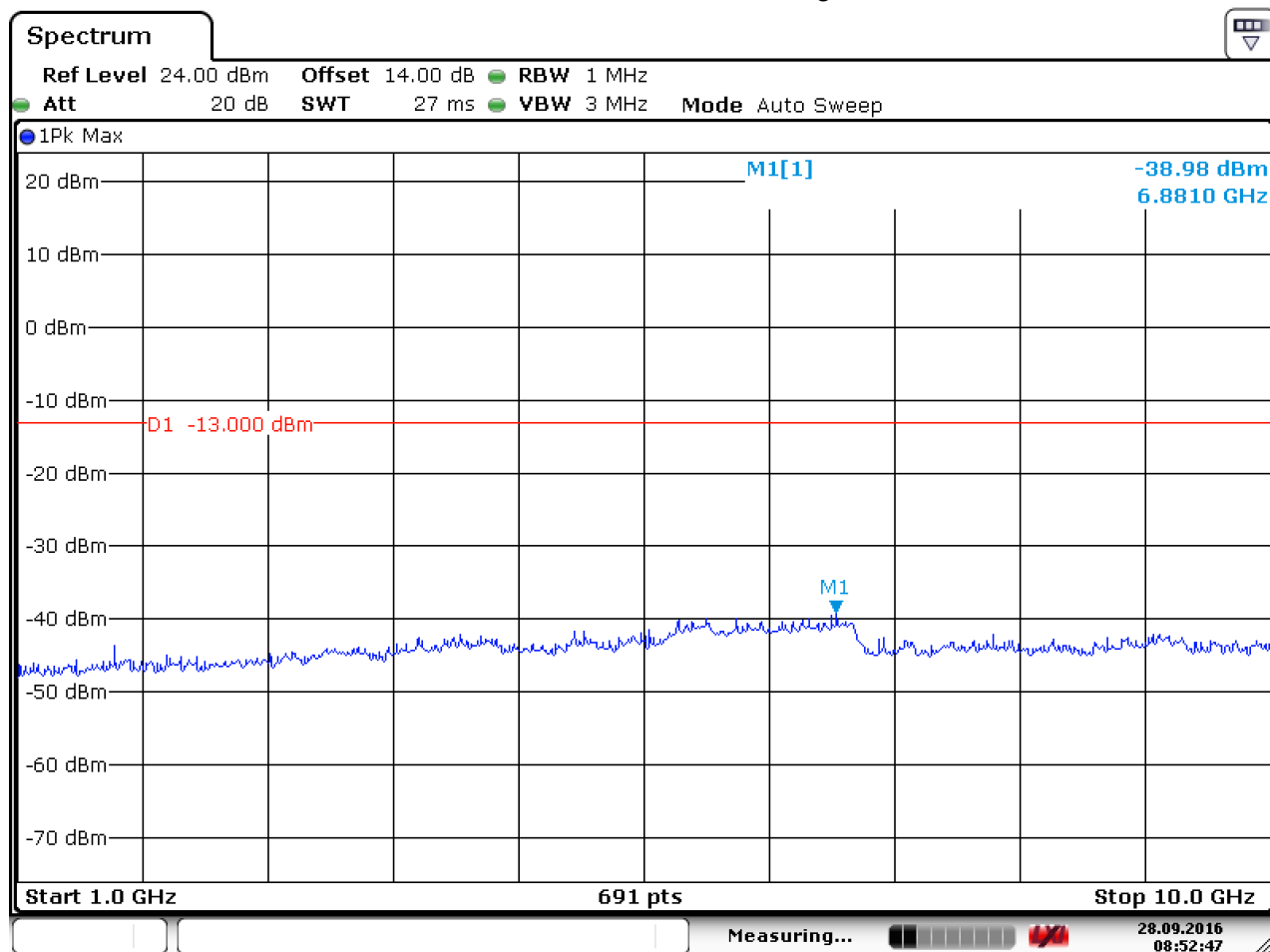
Date: 28.SEP.2016 08:52:09



6.2.1.1.3 Test Channel = HCH



Date: 28.SEP.2016 09:10:39



Date: 28.SEP.2016 08:52:48

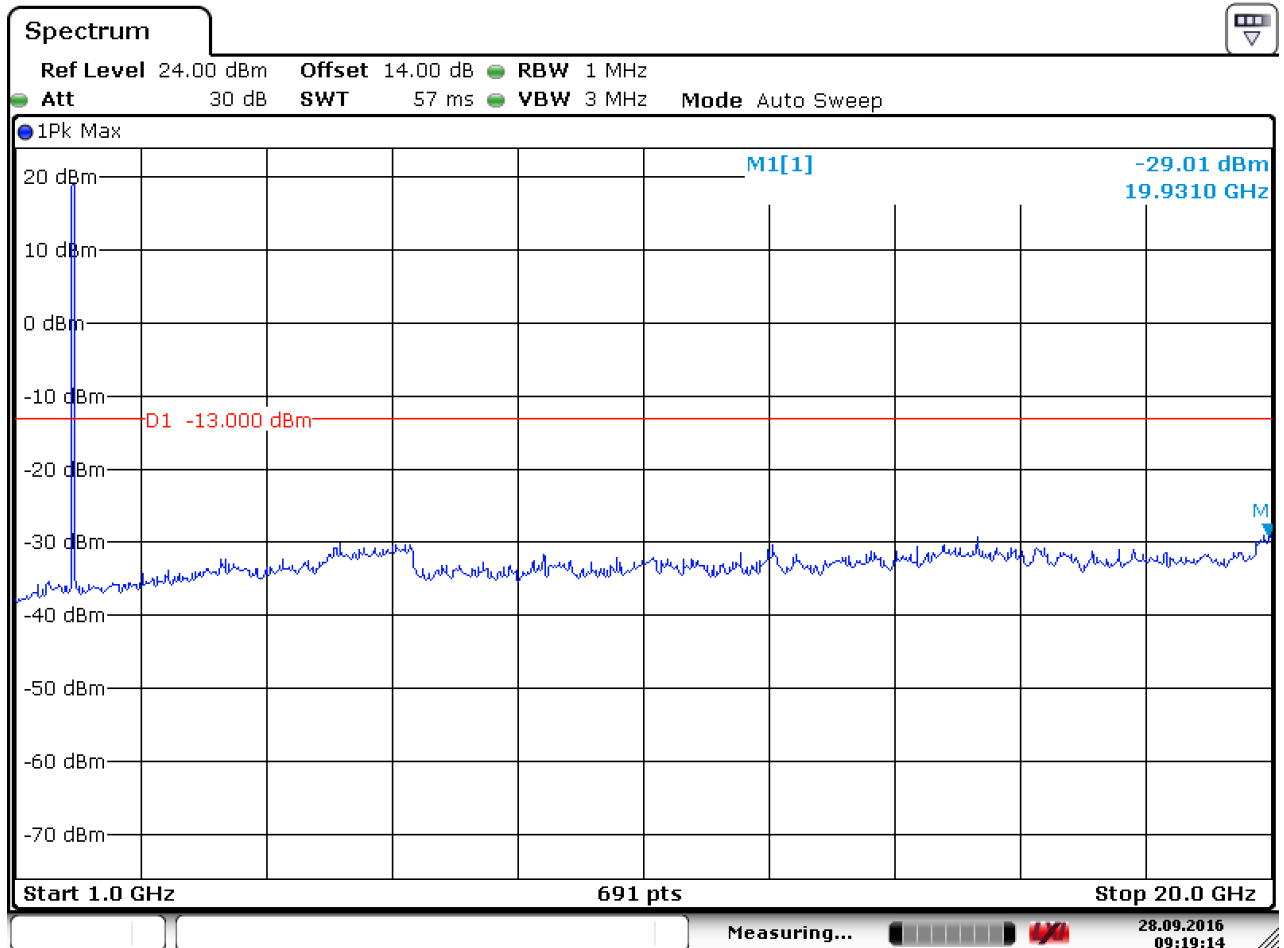


6.2.2 Test Band = WCDMA1900

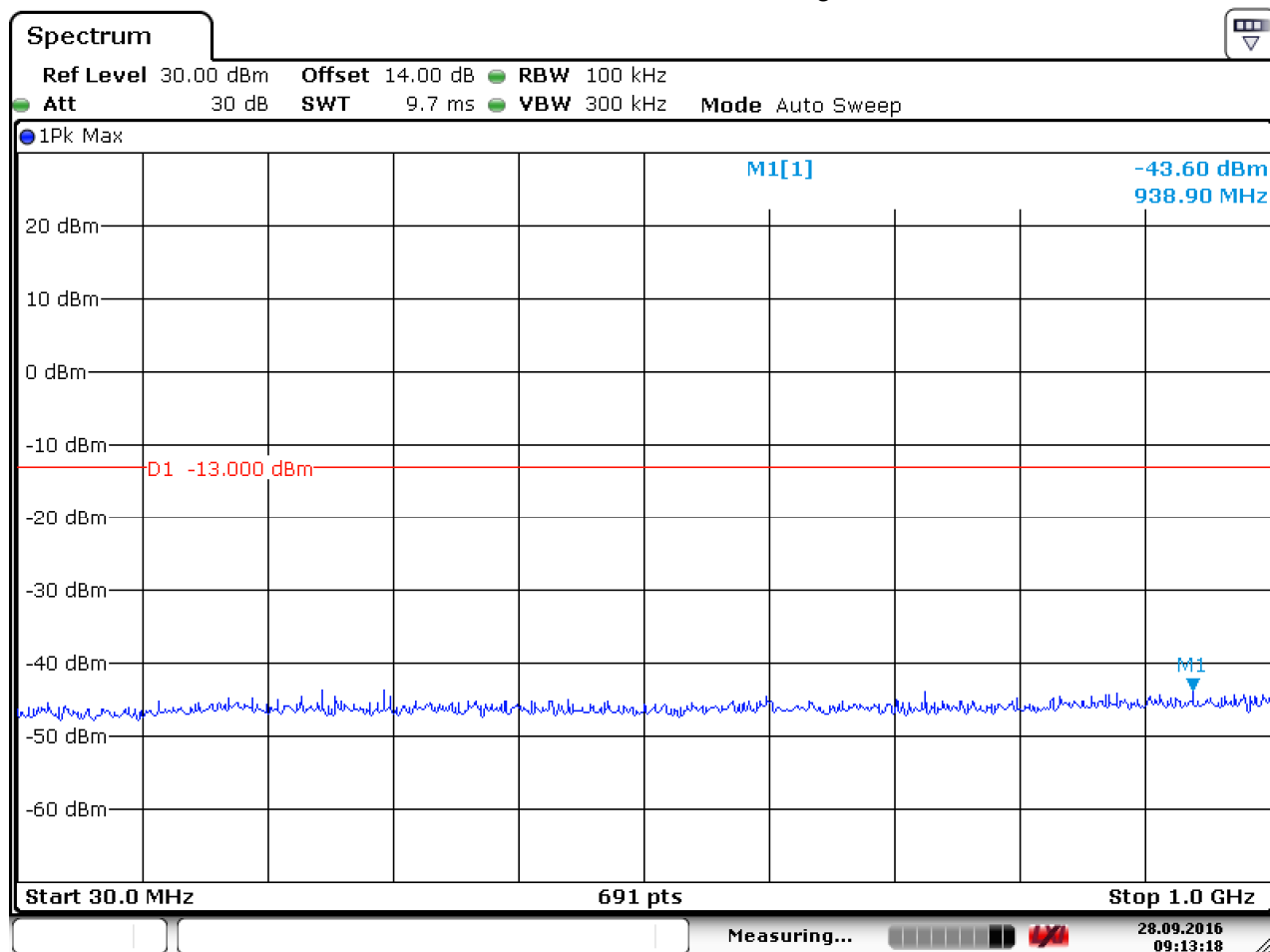
6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

L



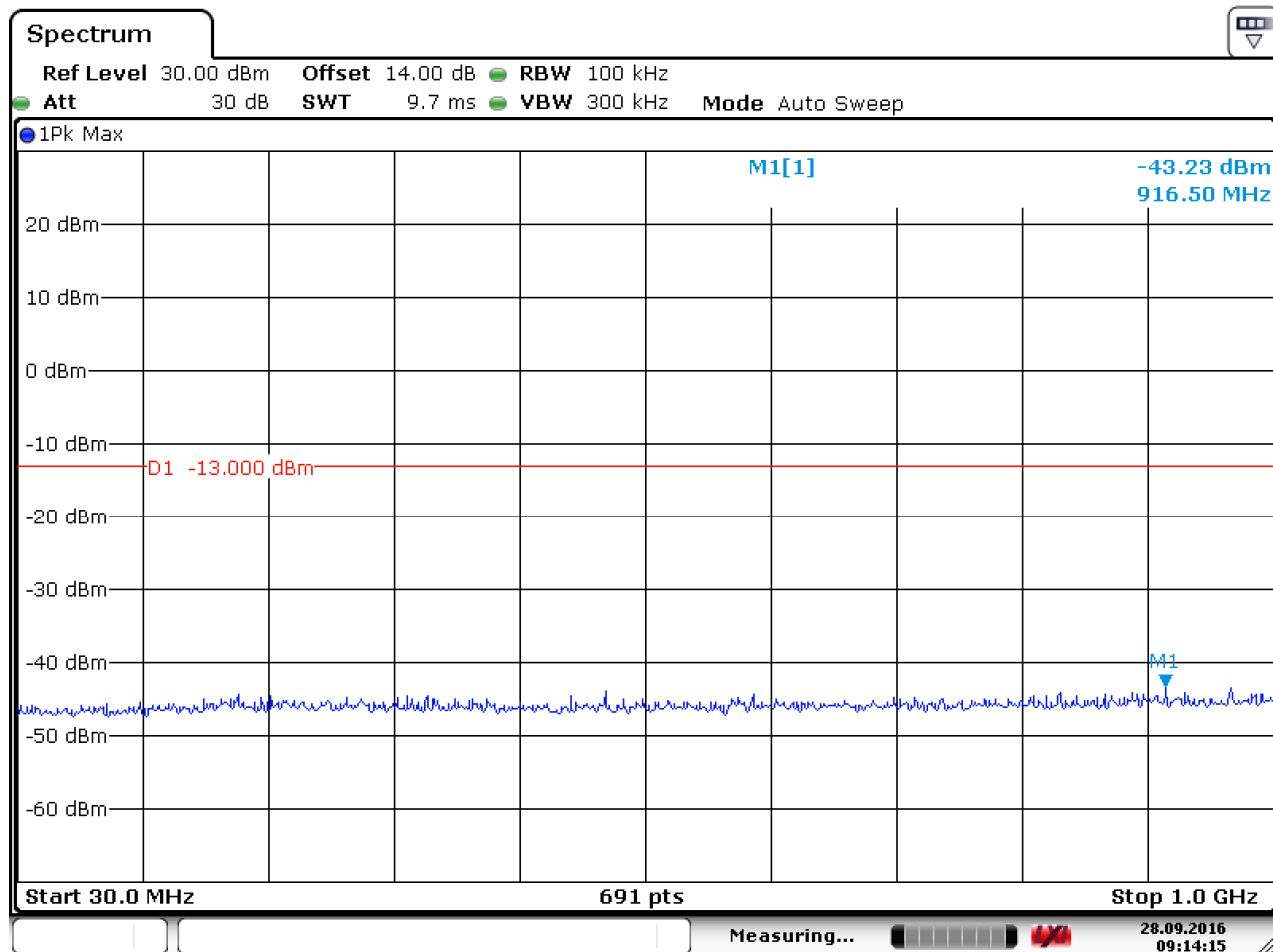
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Date: 28.SEP.2016 09:13:19



6.2.2.1.2 Test Channel =MCH



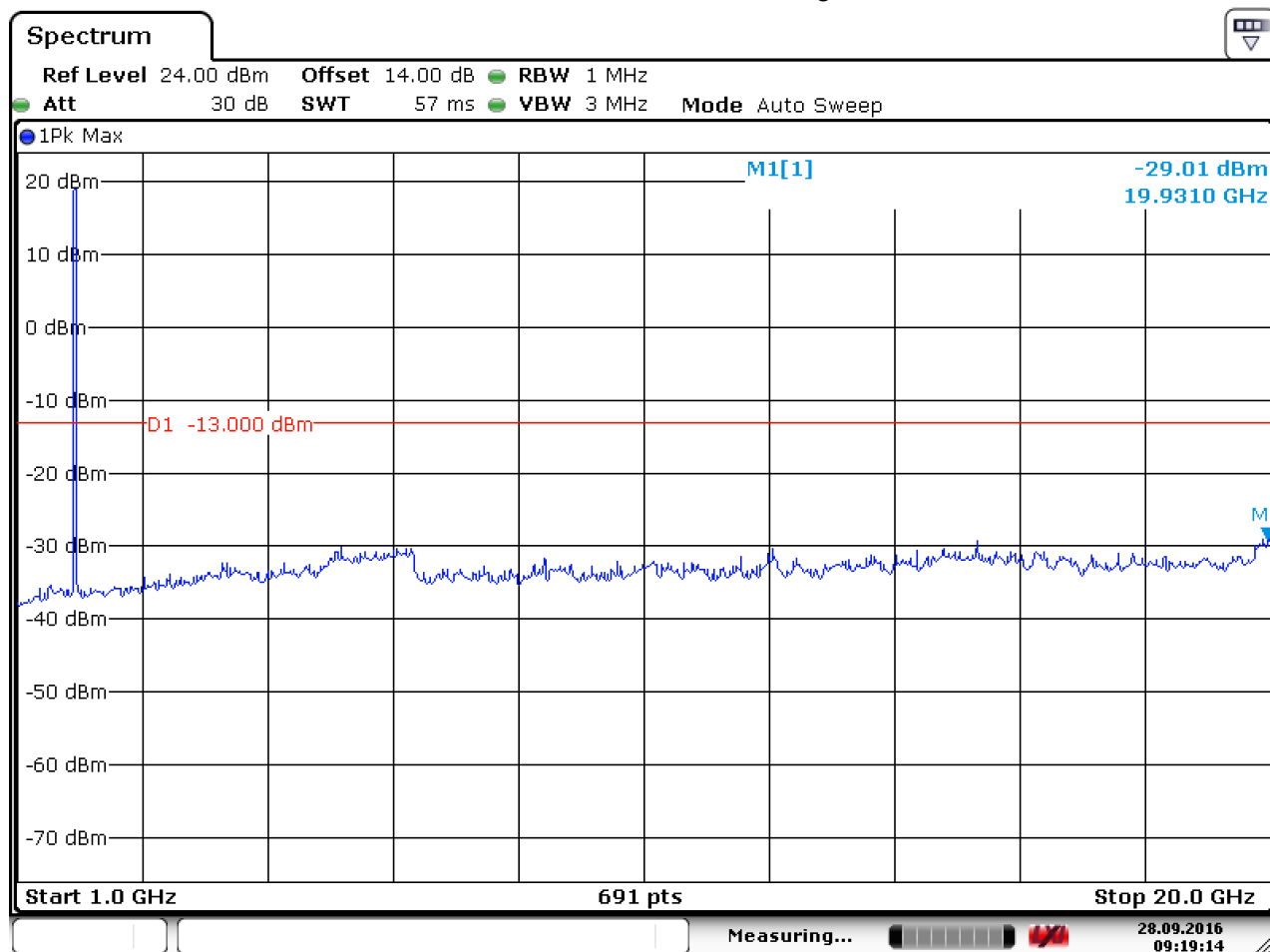
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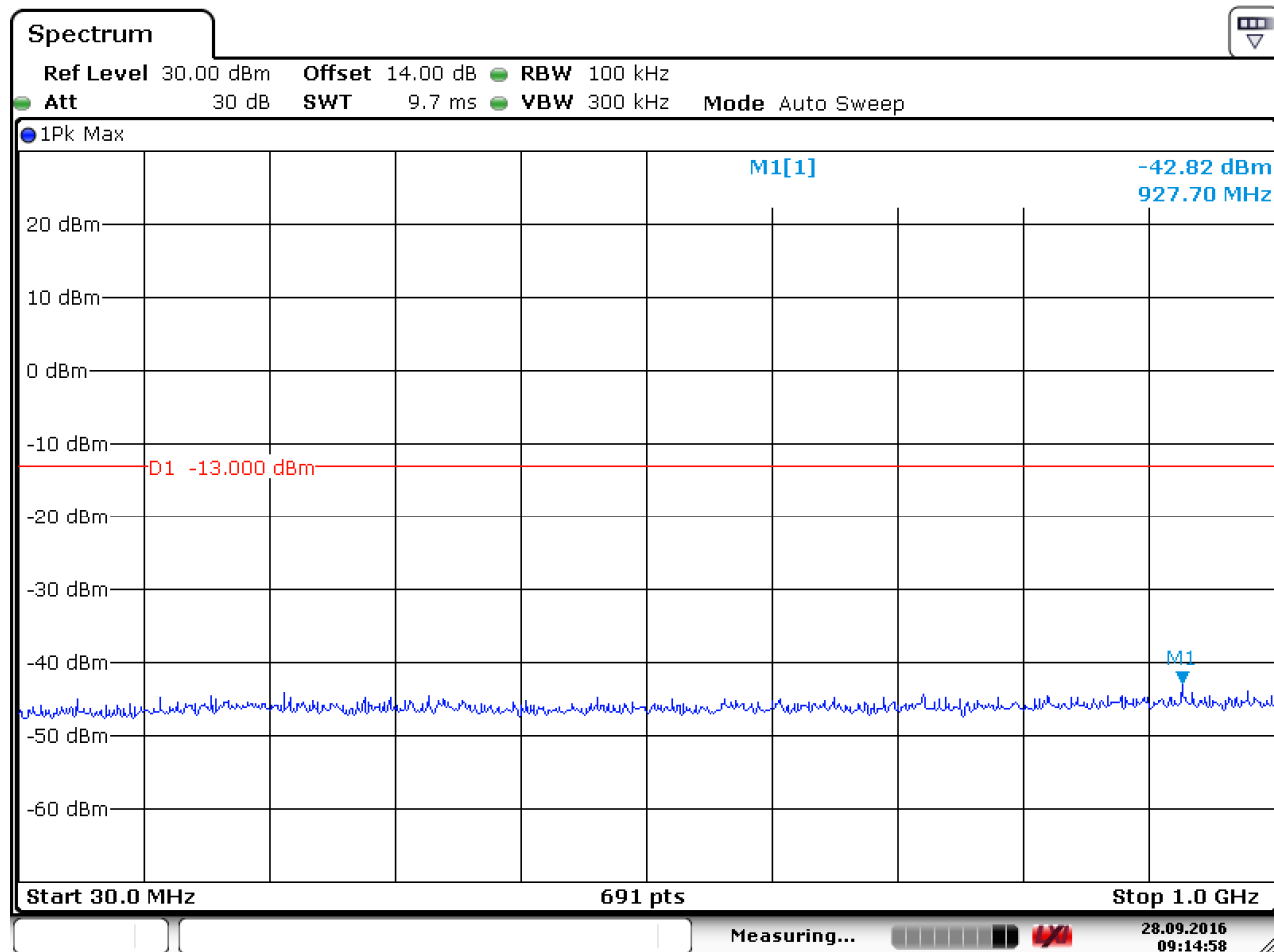


Date: 28.SEP.2016 09:19:15

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6.2.2.1.3 Test Channel = HCH



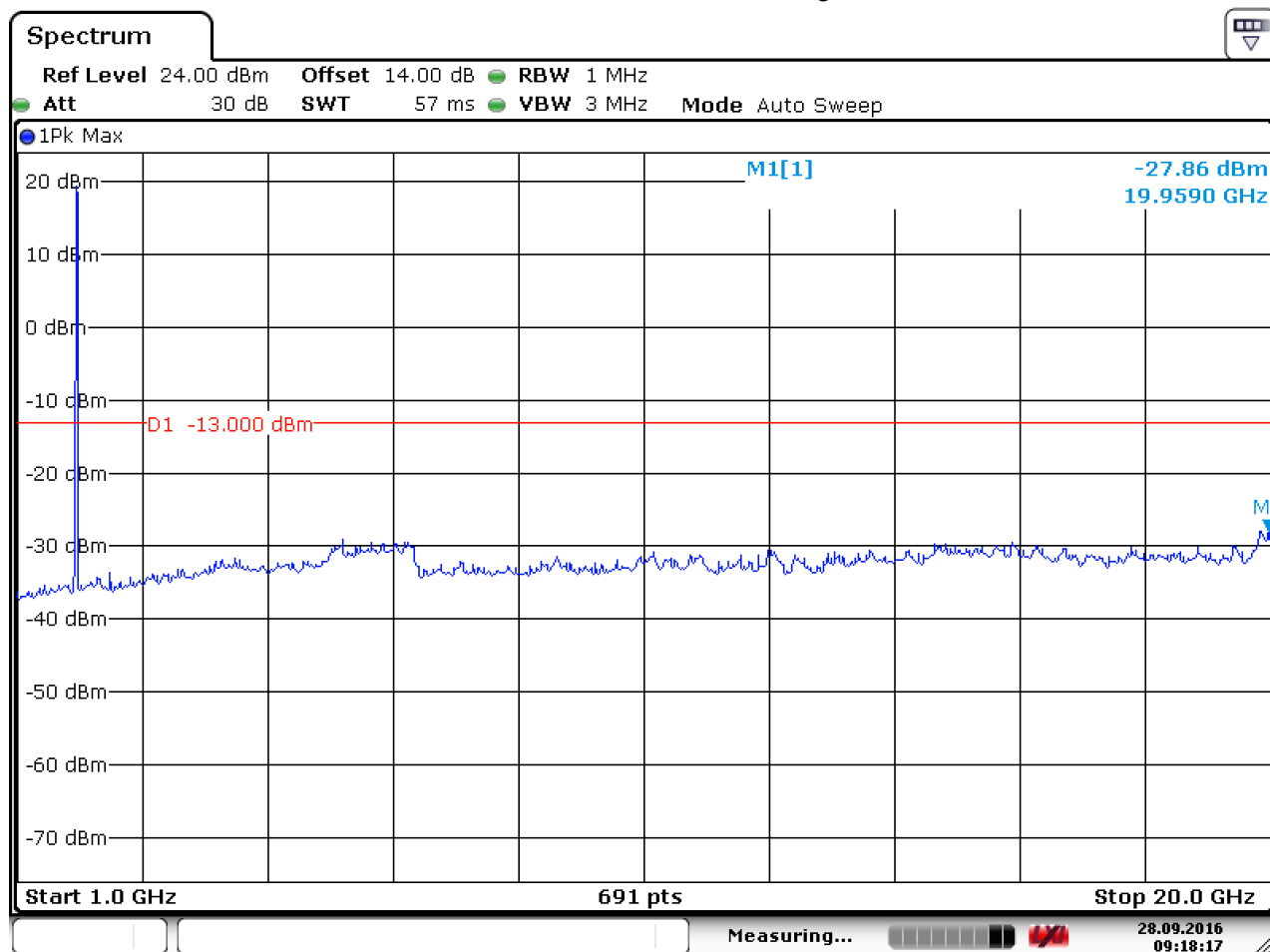
Date: 28.SEP.2016 09:14:58



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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For GSM

7.1.1 Test Band = GSM850

7.1.1.1 Test Mode = GSM/TM1

7.1.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.250 | -65.05 | -13.00 | -52.05 | Vertical |
| 128.500 | -76.08 | -13.00 | -63.08 | Vertical |
| 225.600 | -81.52 | -13.00 | -68.52 | Vertical |
| 357.200 | -77.28 | -13.00 | -64.28 | Vertical |
| 529.690 | -61.07 | -13.00 | -48.07 | Vertical |
| 713.875 | -58.43 | -13.00 | -45.43 | Vertical |
| 1185.833 | -51.02 | -13.00 | -38.02 | Vertical |
| 1648.125 | -43.17 | -13.00 | -30.17 | Vertical |
| 2462.313 | -38.39 | -13.00 | -25.39 | Vertical |
| 3740.250 | -48.84 | -13.00 | -35.84 | Vertical |
| 7091.500 | -48.98 | -13.00 | -35.98 | Vertical |
| 8941.000 | -47.67 | -13.00 | -34.67 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 117.550 | -80.24 | -13.00 | -67.24 | Horizontal |
| 176.800 | -72.59 | -13.00 | -59.59 | Horizontal |
| 312.500 | -71.32 | -13.00 | -58.32 | Horizontal |
| 475.950 | -77.55 | -13.00 | -64.55 | Horizontal |
| 658.800 | -61.90 | -13.00 | -48.90 | Horizontal |
| 746.225 | -58.09 | -13.00 | -45.09 | Horizontal |
| 1648.875 | -44.46 | -13.00 | -31.46 | Horizontal |
| 2472.750 | -41.84 | -13.00 | -28.84 | Horizontal |
| 3297.375 | -49.35 | -13.00 | -36.35 | Horizontal |
| 5223.375 | -50.60 | -13.00 | -37.60 | Horizontal |
| 6618.000 | -48.36 | -13.00 | -35.36 | Horizontal |
| 8275.500 | -47.18 | -13.00 | -34.18 | Horizontal |

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Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 71.050 | -74.78 | -13.00 | -61.78 | Vertical |
| 125.250 | -81.23 | -13.00 | -68.23 | Vertical |
| 264.350 | -83.08 | -13.00 | -70.08 | Vertical |
| 375.250 | -76.24 | -13.00 | -63.24 | Vertical |
| 548.305 | -61.46 | -13.00 | -48.46 | Vertical |
| 726.370 | -58.15 | -13.00 | -45.15 | Vertical |
| 1672.312 | -47.15 | -13.00 | -34.15 | Vertical |
| 2510.437 | -41.73 | -13.00 | -28.73 | Vertical |
| 3740.250 | -49.19 | -13.00 | -36.19 | Vertical |
| 5840.250 | -49.42 | -13.00 | -36.42 | Vertical |
| 7028.000 | -49.25 | -13.00 | -36.25 | Vertical |
| 8979.000 | -48.04 | -13.00 | -35.04 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 86.950 | -83.20 | -13.00 | -70.20 | Horizontal |
| 137.500 | -83.49 | -13.00 | -70.49 | Horizontal |
| 265.100 | -81.24 | -13.00 | -68.24 | Horizontal |
| 356.200 | -78.25 | -13.00 | -65.25 | Horizontal |
| 532.050 | -61.32 | -13.00 | -48.32 | Horizontal |
| 659.495 | -50.16 | -13.00 | -37.16 | Horizontal |
| 1760.437 | -47.77 | -13.00 | -34.77 | Horizontal |
| 2510.437 | -41.16 | -13.00 | -28.16 | Horizontal |
| 3346.500 | -47.19 | -13.00 | -34.19 | Horizontal |
| 5632.875 | -50.10 | -13.00 | -37.10 | Horizontal |
| 7721.500 | -49.18 | -13.00 | -36.18 | Horizontal |
| 9024.500 | -47.84 | -13.00 | -34.84 | Horizontal |

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7.1.1.1.2 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.900 | -83.04 | -13.00 | -70.04 | Vertical |
| 142.750 | -82.86 | -13.00 | -69.86 | Vertical |
| 277.950 | -82.41 | -13.00 | -69.41 | Vertical |
| 374.300 | -77.85 | -13.00 | -64.85 | Vertical |
| 547.485 | -63.83 | -13.00 | -50.83 | Vertical |
| 719.785 | -59.38 | -13.00 | -46.38 | Vertical |
| 1697.437 | -45.85 | -13.00 | -32.85 | Vertical |
| 2545.500 | -41.96 | -13.00 | -28.96 | Vertical |
| 3716.625 | -52.28 | -13.00 | -39.28 | Vertical |
| 5228.625 | -51.22 | -13.00 | -38.22 | Vertical |
| 7138.000 | -48.18 | -13.00 | -35.18 | Vertical |
| 9222.000 | -48.24 | -13.00 | -35.24 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 69.950 | -83.25 | -13.00 | -70.25 | Horizontal |
| 142.200 | -85.29 | -13.00 | -72.29 | Horizontal |
| 218.450 | -83.18 | -13.00 | -70.18 | Horizontal |
| 346.500 | -79.04 | -13.00 | -66.04 | Horizontal |
| 515.860 | -61.35 | -13.00 | -48.35 | Horizontal |
| 851.370 | -58.07 | -13.00 | -45.07 | Horizontal |
| 1697.062 | -46.95 | -13.00 | -33.95 | Horizontal |
| 2323.125 | -43.77 | -13.00 | -30.77 | Horizontal |
| 3619.625 | -52.48 | -13.00 | -39.48 | Horizontal |
| 5524.500 | -51.17 | -13.00 | -38.17 | Horizontal |
| 6538.000 | -48.53 | -13.00 | -35.53 | Horizontal |
| 8961.500 | -47.27 | -13.00 | -34.27 | Horizontal |



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7.1.2 Test Band = EGPRS850

7.1.2.1 Test Mode = GSM/TM2

7.1.2.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 72.100 | -73.92 | -13.00 | -60.92 | Vertical |
| 123.500 | -80.12 | -13.00 | -67.12 | Vertical |
| 248.700 | -82.94 | -13.00 | -69.94 | Vertical |
| 354.650 | -77.15 | -13.00 | -64.15 | Vertical |
| 535.125 | -61.35 | -13.00 | -48.35 | Vertical |
| 714.785 | -55.61 | -13.00 | -42.61 | Vertical |
| 1650.000 | -46.72 | -13.00 | -33.72 | Vertical |
| 2453.313 | -38.55 | -13.00 | -25.55 | Vertical |
| 3740.250 | -48.84 | -13.00 | -35.84 | Vertical |
| 7774.500 | -48.58 | -13.00 | -35.58 | Vertical |
| 6853.500 | -49.73 | -13.00 | -36.73 | Vertical |
| 9111.000 | -47.79 | -13.00 | -34.79 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 79.300 | -85.57 | -13.00 | -72.57 | Horizontal |
| 143.350 | -83.80 | -13.00 | -70.80 | Horizontal |
| 213.150 | -82.61 | -13.00 | -69.61 | Horizontal |
| 358.650 | -80.25 | -13.00 | -67.25 | Horizontal |
| 576.870 | -61.36 | -13.00 | -48.36 | Horizontal |
| 726.250 | -56.29 | -13.00 | -43.29 | Horizontal |
| 1437.500 | -51.53 | -13.00 | -38.53 | Horizontal |
| 2644.875 | -43.26 | -13.00 | -30.26 | Horizontal |
| 3297.125 | -49.25 | -13.00 | -36.25 | Horizontal |
| 5560.500 | -50.91 | -13.00 | -37.91 | Horizontal |
| 7418.500 | -48.42 | -13.00 | -35.42 | Horizontal |
| 9532.000 | -47.37 | -13.00 | -34.37 | Horizontal |

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7.1.2.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 72.650 | -76.58 | -13.00 | -63.58 | Vertical |
| 126.100 | -82.10 | -13.00 | -69.10 | Vertical |
| 176.270 | -85.28 | -13.00 | -72.28 | Vertical |
| 265.800 | -80.18 | -13.00 | -67.18 | Vertical |
| 418.300 | -78.24 | -13.00 | -65.24 | Vertical |
| 601.250 | -63.81 | -13.00 | -50.81 | Vertical |
| 1111.500 | -58.71 | -13.00 | -45.71 | Vertical |
| 1740.750 | -47.79 | -13.00 | -34.79 | Vertical |
| 3810.250 | -39.16 | -13.00 | -26.16 | Vertical |
| 4149.375 | -51.50 | -13.00 | -38.50 | Vertical |
| 7494.500 | -49.57 | -13.00 | -36.57 | Vertical |
| 8857.500 | -48.23 | -13.00 | -35.23 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 86.800 | -86.36 | -13.00 | -73.36 | Horizontal |
| 162.050 | -86.05 | -13.00 | -73.05 | Horizontal |
| 284.650 | -76.30 | -13.00 | -63.30 | Horizontal |
| 326.700 | -78.83 | -13.00 | -65.83 | Horizontal |
| 578.875 | -61.78 | -13.00 | -48.78 | Horizontal |
| 660.345 | -58.21 | -13.00 | -45.21 | Horizontal |
| 1672.875 | -48.45 | -13.00 | -35.45 | Horizontal |
| 2735.812 | -41.77 | -13.00 | -28.77 | Horizontal |
| 4397.375 | -49.35 | -13.00 | -36.35 | Horizontal |
| 6045.500 | -49.85 | -13.00 | -36.85 | Horizontal |
| 7784.500 | -48.28 | -13.00 | -35.28 | Horizontal |
| 9459.500 | -48.04 | -13.00 | -35.04 | Horizontal |

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7.1.2.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 65.450 | -76.54 | -13.00 | -63.54 | Vertical |
| 123.500 | -82.61 | -13.00 | -69.61 | Vertical |
| 246.380 | -82.33 | -13.00 | -69.33 | Vertical |
| 318.200 | -78.75 | -13.00 | -65.75 | Vertical |
| 556.150 | -61.42 | -13.00 | -48.42 | Vertical |
| 747.695 | -58.23 | -13.00 | -45.23 | Vertical |
| 1502.250 | -51.40 | -13.00 | -38.40 | Vertical |
| 2309.062 | -43.74 | -13.00 | -30.74 | Vertical |
| 4532.250 | -51.94 | -13.00 | -38.94 | Vertical |
| 5576.750 | -52.34 | -13.00 | -39.34 | Vertical |
| 7623.500 | -48.85 | -13.00 | -35.85 | Vertical |
| 9212.500 | -47.06 | -13.00 | -34.06 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 84.700 | -85.24 | -13.00 | -72.24 | Horizontal |
| 158.2500 | -86.15 | -13.00 | -73.15 | Horizontal |
| 264.350 | -81.65 | -13.00 | -68.65 | Horizontal |
| 414.300 | -78.75 | -13.00 | -65.75 | Horizontal |
| 528.100 | -64.20 | -13.00 | -51.20 | Horizontal |
| 704.5000 | -58.08 | -13.00 | -45.08 | Horizontal |
| 1480.833 | -50.56 | -13.00 | -37.56 | Horizontal |
| 2323.125 | -43.77 | -13.00 | -30.77 | Horizontal |
| 4992.375 | -51.18 | -13.00 | -38.18 | Horizontal |
| 5234.000 | -50.18 | -13.00 | -37.18 | Horizontal |
| 6975.000 | -48.58 | -13.00 | -35.58 | Horizontal |
| 9732.2500 | -48.53 | -13.00 | -35.53 | Horizontal |



7.1.3 Test Band = GSM1900

7.1.3.1 Test Mode = GSM/TM1

7.1.3.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.250 | -68.32 | -13.00 | -55.32 | Vertical |
| 163.650 | -67.50 | -13.00 | -54.50 | Vertical |
| 319.500 | -74.07 | -13.00 | -61.07 | Vertical |
| 480.050 | -72.14 | -13.00 | -59.14 | Vertical |
| 827.500 | -54.70 | -13.00 | -41.70 | Vertical |
| 1166.980 | -50.74 | -13.00 | -37.74 | Vertical |
| 2544.880 | -51.60 | -13.00 | -38.60 | Vertical |
| 3700.500 | -42.56 | -13.00 | -29.56 | Vertical |
| 5707.500 | -51.21 | -13.00 | -38.21 | Vertical |
| 6284.000 | -48.66 | -13.00 | -35.66 | Vertical |
| 8040.000 | -48.79 | -13.00 | -35.79 | Vertical |
| 9645.000 | -47.08 | -13.00 | -34.08 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 62.375 | -69.54 | -13.00 | -56.54 | Horizontal |
| 154.150 | -71.25 | -13.00 | -58.25 | Horizontal |
| 325.400 | -78.44 | -13.00 | -65.44 | Horizontal |
| 460.000 | -69.07 | -13.00 | -56.07 | Horizontal |
| 875.833 | -53.38 | -13.00 | -40.38 | Horizontal |
| 1165.040 | -52.81 | -13.00 | -39.81 | Horizontal |
| 2410.500 | -51.87 | -13.00 | -38.87 | Horizontal |
| 3700.500 | -40.67 | -13.00 | -27.67 | Horizontal |
| 4345.875 | -50.54 | -13.00 | -37.54 | Horizontal |
| 5694.000 | -50.86 | -13.00 | -37.86 | Horizontal |
| 7767.000 | -47.88 | -13.00 | -34.88 | Horizontal |
| 8971.000 | -48.34 | -13.00 | -35.34 | Horizontal |



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7.1.3.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 74.800 | -67.85 | -13.00 | -54.85 | Vertical |
| 156.650 | -70.64 | -13.00 | -57.64 | Vertical |
| 211.350 | -77.10 | -13.00 | -64.10 | Vertical |
| 346.500 | -75.76 | -13.00 | -62.76 | Vertical |
| 874.200 | -53.40 | -13.00 | -40.40 | Vertical |
| 1197.620 | -51.21 | -13.00 | -38.21 | Vertical |
| 2427.820 | -51.62 | -13.00 | -38.62 | Vertical |
| 3759.750 | -43.18 | -13.00 | -30.18 | Vertical |
| 4368.875 | -51.86 | -13.00 | -38.86 | Vertical |
| 5874.750 | -50.05 | -13.00 | -37.05 | Vertical |
| 7988.000 | -48.33 | -13.00 | -35.33 | Vertical |
| 9104.000 | -48.01 | -13.00 | -35.01 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 64.750 | -68.20 | -13.00 | -55.20 | Horizontal |
| 157.150 | -70.33 | -13.00 | -57.33 | Horizontal |
| 278.150 | -78.84 | -13.00 | -65.84 | Horizontal |
| 392.500 | -76.31 | -13.00 | -63.31 | Horizontal |
| 686.667 | -56.75 | -13.00 | -43.75 | Horizontal |
| 1273.520 | -51.82 | -13.00 | -38.82 | Horizontal |
| 2578.520 | -52.14 | -13.00 | -39.14 | Horizontal |
| 3760.125 | -43.37 | -13.00 | -30.37 | Horizontal |
| 4922.000 | -50.35 | -13.00 | -37.35 | Horizontal |
| 6220.000 | -49.46 | -13.00 | -36.46 | Horizontal |
| 8041.000 | -48.63 | -13.00 | -35.63 | Horizontal |
| 9071.000 | -48.55 | -13.00 | -35.55 | Horizontal |

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7.1.3.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 77.480 | -69.80 | -13.00 | -56.80 | Vertical |
| 222.900 | -76.42 | -13.00 | -63.42 | Vertical |
| 335.350 | -75.44 | -13.00 | -62.44 | Vertical |
| 487.500 | -75.27 | -13.00 | -62.27 | Vertical |
| 823.167 | -54.52 | -13.00 | -41.52 | Vertical |
| 1192.250 | -51.36 | -13.00 | -38.36 | Vertical |
| 2445.940 | -52.73 | -13.00 | -39.73 | Vertical |
| 3819.750 | -42.94 | -13.00 | -29.94 | Vertical |
| 4264.875 | -50.51 | -13.00 | -37.51 | Vertical |
| 6181.000 | -49.35 | -13.00 | -36.35 | Vertical |
| 8115.000 | -47.88 | -13.00 | -34.88 | Vertical |
| 9087.000 | -47.97 | -13.00 | -34.97 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 60.250 | -68.27 | -13.00 | -55.27 | Horizontal |
| 127.250 | -73.55 | -13.00 | -60.55 | Horizontal |
| 228.800 | -78.44 | -13.00 | -65.44 | Horizontal |
| 469.700 | -76.32 | -13.00 | -63.32 | Horizontal |
| 733.167 | -56.53 | -13.00 | -43.53 | Horizontal |
| 1156.160 | -54.51 | -13.00 | -41.51 | Horizontal |
| 2535.940 | -53.41 | -13.00 | -40.41 | Horizontal |
| 3819.000 | -43.33 | -13.00 | -30.33 | Horizontal |
| 4484.125 | -49.35 | -13.00 | -36.35 | Horizontal |
| 6182.000 | -49.69 | -13.00 | -36.69 | Horizontal |
| 7644.000 | -48.58 | -13.00 | -35.58 | Horizontal |
| 8607.000 | -49.00 | -13.00 | -36.00 | Horizontal |

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7.1.4 Test Band = EGPRS1900

7.1.4.1 Test Mode = GSM/TM2

7.1.4.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 75.300 | -68.64 | -13.00 | -55.64 | Vertical |
| 212.600 | -79.00 | -13.00 | -66.00 | Vertical |
| 357.520 | -77.35 | -13.00 | -64.35 | Vertical |
| 484.000 | -75.14 | -13.00 | -62.14 | Vertical |
| 616.667 | -53.56 | -13.00 | -40.56 | Vertical |
| 12379.100 | -51.24 | -13.00 | -38.24 | Vertical |
| 2525.340 | -51.13 | -13.00 | -38.13 | Vertical |
| 3859.875 | -49.28 | -13.00 | -36.28 | Vertical |
| 5316.750 | -50.66 | -13.00 | -37.66 | Vertical |
| 6163.000 | -47.55 | -13.00 | -34.55 | Vertical |
| 7944.000 | -47.28 | -13.00 | -34.28 | Vertical |
| 8913.000 | -48.32 | -13.00 | -35.32 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|------------------------|--------------------|-------------------------|------------------------|---------------------|
| 72.900 | -70.18 | -13.00 | -57.18 | Horizontal |
| 134.500 | -72.62 | -13.00 | -59.62 | Horizontal |
| 224.300 | -78.25 | -13.00 | -65.25 | Horizontal |
| 438.000 | -75.22 | -13.00 | -62.22 | Horizontal |
| 875.500 | -53.39 | -13.00 | -40.39 | Horizontal |
| 1252.540 | -51.40 | -13.00 | -38.4 | Horizontal |
| 2408.900 | -52.35 | -13.00 | -39.35 | Horizontal |
| 3859.875 | -49.45 | -13.00 | -36.45 | Horizontal |
| 4286.375 | -50.72 | -13.00 | -37.72 | Horizontal |
| 5694.000 | -50.86 | -13.00 | -37.86 | Horizontal |
| 7697.000 | -48.24 | -13.00 | -35.24 | Horizontal |
| 9248.000 | -48.27 | -13.00 | -35.27 | Horizontal |



7.1.4.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 77.550 | -68.35 | -13.00 | -55.35 | Vertical |
| 128.650 | -70.25 | -13.00 | -57.25 | Vertical |
| 334.250 | -77.53 | -13.00 | -64.53 | Vertical |
| 457.500 | -75.24 | -13.00 | -62.24 | Vertical |
| 778.350 | -56.51 | -13.00 | -43.51 | Vertical |
| 1342.540 | -51.07 | -13.00 | -38.07 | Vertical |
| 2731.820 | -42.72 | -13.00 | -29.72 | Vertical |
| 3759.000 | -44.11 | -13.00 | -31.11 | Vertical |
| 4923.125 | -49.88 | -13.00 | -36.88 | Vertical |
| 6045.000 | -48.60 | -13.00 | -35.60 | Vertical |
| 7837.000 | -47.35 | -13.00 | -34.35 | Vertical |
| 9266.000 | -47.42 | -13.00 | -34.42 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 61.850 | -72.28 | -13.00 | -59.28 | Horizontal |
| 143.350 | -73.28 | -13.00 | -60.28 | Horizontal |
| 226.050 | -78.14 | -13.00 | -65.14 | Horizontal |
| 467.450 | -75.67 | -13.00 | -62.67 | Horizontal |
| 878.570 | -53.35 | -13.00 | -40.35 | Horizontal |
| 1346.160 | -51.82 | -13.00 | -38.82 | Horizontal |
| 2452.060 | -52.74 | -13.00 | -39.74 | Horizontal |
| 3477.375 | -49.95 | -13.00 | -36.95 | Horizontal |
| 43254.375 | -50.24 | -13.00 | -37.24 | Horizontal |
| 6220.000 | -49.46 | -13.00 | -36.46 | Horizontal |
| 8520.000 | -48.95 | -13.00 | -35.95 | Horizontal |
| 9165.000 | -47.84 | -13.00 | -34.84 | Horizontal |



7.1.4.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 68.350 | -68.57 | -13.00 | -55.57 | Vertical |
| 138.850 | -71.57 | -13.00 | -58.57 | Vertical |
| 244.850 | -77.46 | -13.00 | -64.46 | Vertical |
| 373.900 | -75.55 | -13.00 | -62.55 | Vertical |
| 866.667 | -52.65 | -13.00 | -39.65 | Vertical |
| 1207.680 | -51.44 | -13.00 | -38.44 | Vertical |
| 2428.760 | -50.76 | -13.00 | -37.76 | Vertical |
| 3817.125 | -48.80 | -13.00 | -35.80 | Vertical |
| 4358.875 | -50.43 | -13.00 | -37.43 | Vertical |
| 5500.875 | -50.34 | -13.00 | -37.34 | Vertical |
| 7277.000 | -49.37 | -13.00 | -36.37 | Vertical |
| 9234.000 | -47.45 | -13.00 | -34.45 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 67.550 | -68.54 | -13.00 | -55.54 | Horizontal |
| 149.950 | -70.66 | -13.00 | -57.66 | Horizontal |
| 262.950 | -78.33 | -13.00 | -65.33 | Horizontal |
| 473.600 | -75.42 | -13.00 | -62.42 | Horizontal |
| 599.250 | -59.81 | -13.00 | -46.81 | Horizontal |
| 875.835 | -51.29 | -13.00 | -38.29 | Horizontal |
| 2426.400 | -52.42 | -13.00 | -39.42 | Horizontal |
| 3818.625 | -48.99 | -13.00 | -35.99 | Horizontal |
| 4314.000 | -50.82 | -13.00 | -37.82 | Horizontal |
| 6273.000 | -49.25 | -13.00 | -36.25 | Horizontal |
| 8662.000 | -48.09 | -13.00 | -35.09 | Horizontal |
| 9242.000 | -47.64 | -13.00 | -34.64 | Horizontal |



7.2 For WCDMA

7.2.1 Test Band = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1

7.2.1.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 75.150 | -82.13 | -13.00 | -69.13 | Vertical |
| 157.950 | -81.55 | -13.00 | -68.55 | Vertical |
| 234.500 | -83.52 | -13.00 | -70.52 | Vertical |
| 357.500 | -78.52 | -13.00 | -65.52 | Vertical |
| 430.450 | -83.24 | -13.00 | -70.24 | Vertical |
| 528.175 | -66.72 | -13.00 | -53.72 | Vertical |
| 1654.500 | -61.52 | -13.00 | -48.52 | Vertical |
| 2476.500 | -53.15 | -13.00 | -40.15 | Vertical |
| 3734.488 | -66.55 | -13.00 | -53.55 | Vertical |
| 4299.187 | -67.58 | -13.00 | -54.58 | Vertical |
| 7827.963 | -63.22 | -13.00 | -50.22 | Vertical |
| 9734.815 | -64.89 | -13.00 | -51.89 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.250 | -86.40 | -13.00 | -73.40 | Horizontal |
| 157.550 | -85.42 | -13.00 | -72.42 | Horizontal |
| 235.120 | -84.11 | -13.00 | -71.11 | Horizontal |
| 386.500 | -82.43 | -13.00 | -69.43 | Horizontal |
| 438.550 | -74.25 | -13.00 | -61.25 | Horizontal |
| 624.570 | -75.80 | -13.00 | -62.80 | Horizontal |
| 1675.000 | -64.12 | -13.00 | -51.12 | Horizontal |
| 2476.500 | -54.21 | -13.00 | -41.21 | Horizontal |
| 4392.300 | -67.82 | -13.00 | -54.82 | Horizontal |
| 6182.875 | -64.85 | -13.00 | -51.85 | Horizontal |
| 8645.250 | -64.90 | -13.00 | -51.90 | Horizontal |
| 10597.425 | -63.73 | -13.00 | -50.73 | Horizontal |



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7.2.1.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 73.150 | -88.60 | -13.00 | -75.60 | Vertical |
| 180.650 | -87.76 | -13.00 | -74.76 | Vertical |
| 284.250 | -88.16 | -13.00 | -75.16 | Vertical |
| 372.100 | -84.83 | -13.00 | -71.83 | Vertical |
| 437.150 | -82.85 | -13.00 | -69.85 | Vertical |
| 613.120 | -79.25 | -13.00 | -66.25 | Vertical |
| 1652.500 | -64.57 | -13.00 | -51.57 | Vertical |
| 2507.000 | -56.61 | -13.00 | -43.61 | Vertical |
| 3526.012 | -63.17 | -13.00 | -50.17 | Vertical |
| 5978.125 | -65.27 | -13.00 | -52.27 | Vertical |
| 8616.000 | -64.66 | -13.00 | -51.66 | Vertical |
| 10450.188 | -63.05 | -13.00 | -50.05 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.050 | -88.70 | -13.00 | -75.70 | Horizontal |
| 145.850 | -89.25 | -13.00 | -76.25 | Horizontal |
| 269.700 | -87.25 | -13.00 | -74.25 | Horizontal |
| 405.300 | -87.31 | -13.00 | -74.31 | Horizontal |
| 571.080 | -81.24 | -13.00 | -68.24 | Horizontal |
| 608.622 | -78.94 | -13.00 | -65.94 | Horizontal |
| 1425.500 | -67.28 | -13.00 | -54.28 | Horizontal |
| 1675.000 | -64.31 | -13.00 | -51.31 | Horizontal |
| 3526.012 | -68.02 | -13.00 | -55.02 | Horizontal |
| 5947.250 | -65.44 | -13.00 | -52.44 | Horizontal |
| 7761.900 | -65.13 | -13.00 | -52.13 | Horizontal |
| 11815.450 | -63.38 | -13.00 | -50.38 | Horizontal |

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7.2.1.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 73.000 | -89.40 | -13.00 | -76.40 | Vertical |
| 172.700 | -90.43 | -13.00 | -77.43 | Vertical |
| 257.500 | -89.42 | -13.00 | -76.42 | Vertical |
| 384.200 | -86.24 | -13.00 | -73.24 | Vertical |
| 433.605 | -82.17 | -13.00 | -69.17 | Vertical |
| 616.513 | -78.25 | -13.00 | -65.25 | Vertical |
| 1694.000 | -63.09 | -13.00 | -50.09 | Vertical |
| 2627.500 | -57.73 | -13.00 | -44.73 | Vertical |
| 3565.987 | -63.00 | -13.00 | -50.00 | Vertical |
| 5014.900 | -66.44 | -13.00 | -53.44 | Vertical |
| 7758.487 | -65.34 | -13.00 | -52.34 | Vertical |
| 10434.750 | -64.32 | -13.00 | -51.32 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 76.550 | -90.15 | -13.00 | -77.15 | Horizontal |
| 143.750 | -88.26 | -13.00 | -75.26 | Horizontal |
| 237.400 | -88.10 | -13.00 | -75.10 | Horizontal |
| 342.900 | -86.91 | -13.00 | -73.91 | Horizontal |
| 438.855 | -81.76 | -13.00 | -68.76 | Horizontal |
| 612.805 | -78.33 | -13.00 | -65.33 | Horizontal |
| 1713.500 | -60.55 | -13.00 | -47.55 | Horizontal |
| 2543.000 | -53.60 | -13.00 | -40.60 | Horizontal |
| 3742.875 | -68.25 | -13.00 | -55.25 | Horizontal |
| 5123.850 | -66.91 | -13.00 | -53.91 | Horizontal |
| 7091.100 | -65.51 | -13.00 | -52.51 | Horizontal |
| 10210.700 | -64.62 | -13.00 | -51.62 | Horizontal |



7.2.2 Test Band = WCDMA1900

7.2.2.1 Test Mode = UMTS/TM1

7.2.2.1.1 Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 111.750 | -79.60 | -13.00 | -66.60 | Vertical |
| 221.450 | -90.21 | -13.00 | -77.21 | Vertical |
| 312.050 | -84.33 | -13.00 | -71.33 | Vertical |
| 458.835 | -87.14 | -13.00 | -74.14 | Vertical |
| 642.295 | -85.38 | -13.00 | -72.38 | Vertical |
| 788.810 | -80.27 | -13.00 | -67.27 | Vertical |
| 3706.387 | -58.74 | -13.00 | -45.74 | Vertical |
| 4298.225 | -68.69 | -13.00 | -55.69 | Vertical |
| 6539.250 | -65.98 | -13.00 | -52.98 | Vertical |
| 7679.350 | -63.96 | -13.00 | -50.96 | Vertical |
| 10005.950 | -64.44 | -13.00 | -51.44 | Vertical |
| 11251.912 | -64.23 | -13.00 | -51.23 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 93.300 | -78.83 | -13.00 | -65.83 | Horizontal |
| 123.225 | -76.42 | -13.00 | -63.42 | Horizontal |
| 367.050 | -85.33 | -13.00 | -72.33 | Horizontal |
| 478.920 | -86.81 | -13.00 | -73.81 | Horizontal |
| 635.600 | -83.32 | -13.00 | -70.32 | Horizontal |
| 745.892 | -80.74 | -13.00 | -67.74 | Horizontal |
| 3702.487 | -62.83 | -13.00 | -49.83 | Horizontal |
| 4335.400 | -66.07 | -13.00 | -53.07 | Horizontal |
| 6019.087 | -66.21 | -13.00 | -53.21 | Horizontal |
| 7942.513 | -64.32 | -13.00 | -51.32 | Horizontal |
| 9218.350 | -63.22 | -13.00 | -50.22 | Horizontal |
| 11892.975 | -64.19 | -13.00 | -51.19 | Horizontal |



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7.2.2.1.2 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 112.200 | -75.40 | -13.00 | -62.40 | Vertical |
| 235.750 | -88.72 | -13.00 | -75.72 | Vertical |
| 347.000 | -83.20 | -13.00 | -70.20 | Vertical |
| 483.250 | -86.17 | -13.00 | -73.17 | Vertical |
| 622.158 | -84.23 | -13.00 | -71.23 | Vertical |
| 916.225 | -78.54 | -13.00 | -65.54 | Vertical |
| 3758.062 | -57.69 | -13.00 | -44.69 | Vertical |
| 5624.880 | -64.03 | -13.00 | -51.03 | Vertical |
| 6285.750 | -66.01 | -13.00 | -53.01 | Vertical |
| 7924.025 | -65.47 | -13.00 | -52.47 | Vertical |
| 9168.585 | -64.35 | -13.00 | -51.35 | Vertical |
| 11255.812 | -64.23 | -13.00 | -51.23 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 73.700 | -86.34 | -13.00 | -73.34 | Horizontal |
| 185.050 | -90.01 | -13.00 | -77.01 | Horizontal |
| 366.000 | -86.12 | -13.00 | -73.12 | Horizontal |
| 625.824 | -86.54 | -13.00 | -73.54 | Horizontal |
| 780.396 | -80.33 | -13.00 | -67.33 | Horizontal |
| 958.628 | -76.26 | -13.00 | -63.26 | Horizontal |
| 3758.062 | -54.10 | -13.00 | -41.10 | Horizontal |
| 5736.888 | -63.26 | -13.00 | -50.26 | Horizontal |
| 6942.900 | -65.76 | -13.00 | -52.76 | Horizontal |
| 9233.750 | -65.95 | -13.00 | -52.95 | Horizontal |
| 10226.225 | -63.62 | -13.00 | -50.62 | Horizontal |
| 11891.512 | -64.20 | -13.00 | -51.20 | Horizontal |

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7.2.2.1.3 Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 86.350 | -90.25 | -13.00 | -77.25 | Vertical |
| 205.300 | -92.15 | -13.00 | -79.15 | Vertical |
| 317.000 | -83.22 | -13.00 | -70.22 | Vertical |
| 413.450 | -84.16 | -13.00 | -71.16 | Vertical |
| 559.600 | -84.13 | -13.00 | -71.13 | Vertical |
| 854.008 | -78.88 | -13.00 | -65.88 | Vertical |
| 3813.637 | -58.32 | -13.00 | -45.32 | Vertical |
| 6284.775 | -66.03 | -13.00 | -53.03 | Vertical |
| 7632.275 | -67.32 | -13.00 | -54.32 | Vertical |
| 8684.250 | -65.08 | -13.00 | -52.08 | Vertical |
| 10344.975 | -63.25 | -13.00 | -50.25 | Vertical |
| 11894.700 | -63.49 | -13.00 | -50.49 | Vertical |

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Over Limit (dB) | Polarization |
|-----------------|-------------|------------------|-----------------|--------------|
| 83.800 | -91.05 | -13.00 | -78.05 | Horizontal |
| 172.150 | -90.57 | -13.00 | -77.57 | Horizontal |
| 283.150 | -87.33 | -13.00 | -74.33 | Horizontal |
| 424.350 | -86.25 | -13.00 | -73.25 | Horizontal |
| 619.975 | -83.24 | -13.00 | -70.24 | Horizontal |
| 924.160 | -77.62 | -13.00 | -64.62 | Horizontal |
| 3812.662 | -55.91 | -13.00 | -42.91 | Horizontal |
| 4837.863 | -66.81 | -13.00 | -53.81 | Horizontal |
| 6018.112 | -66.23 | -13.00 | -53.23 | Horizontal |
| 7942.250 | -64.21 | -13.00 | -51.21 | Horizontal |
| 9255.763 | -64.68 | -13.00 | -51.68 | Horizontal |
| 10500.187 | -64.45 | -13.00 | -51.45 | Horizontal |



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NOTE:

- 1) The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) Pretest was performed at the EUT in low, middle, high channel, but only the worst test channel (Channel 190 for GSM850 and Channel 661 for GSM1900) and only the data of the worst case show in the test report.



8 Frequency Stability

8.1 For GSM

8.1.1 Frequency Error VS. Voltage

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850 | GSM/TM1 | LCH | TN | VL | -11.54 | -0.01400 | PASS |
| | | | | VN | -13.41 | -0.01627 | PASS |
| | | | | VH | -6.57 | -0.00797 | PASS |
| | | MCH | TN | VL | -4.21 | -0.00503 | PASS |
| | | | | VN | -2.18 | -0.00261 | PASS |
| | | | | VH | -7.49 | -0.00895 | PASS |
| | | HCH | TN | VL | -3.86 | -0.00455 | PASS |
| | | | | VN | -8.08 | -0.00952 | PASS |
| | | | | VH | -12.44 | -0.01466 | PASS |
| GSM850 | GSM/TM2 | LCH | TN | VL | -11.51 | -0.01397 | PASS |
| | | | | VN | -7.65 | -0.00928 | PASS |
| | | | | VH | -6.18 | -0.00750 | PASS |
| | | MCH | TN | VL | -3.51 | -0.00420 | PASS |
| | | | | VN | -2.18 | -0.00261 | PASS |
| | | | | VH | -5.67 | -0.00678 | PASS |
| | | HCH | TN | VL | -4.37 | -0.00515 | PASS |
| | | | | VN | -3.57 | -0.00421 | PASS |
| | | | | VH | -16.18 | -0.01906 | PASS |



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| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM1900 | GSM/TM1 | LCH | TN | VL | -17.51 | -0.00946 | PASS |
| | | | | VN | -8.24 | -0.00445 | PASS |
| | | | | VH | -5.26 | -0.00284 | PASS |
| | | MCH | TN | VL | -7.54 | -0.00401 | PASS |
| | | | | VN | -3.54 | -0.00188 | PASS |
| | | | | VH | -7.49 | -0.00398 | PASS |
| | | HCH | TN | VL | -6.24 | -0.00327 | PASS |
| | | | | VN | -8.15 | -0.00427 | PASS |
| | | | | VH | -13.84 | -0.00725 | PASS |
| GSM1900 | GSM/TM2 | LCH | TN | VL | -9.28 | -0.00502 | PASS |
| | | | | VN | -6.35 | -0.00343 | PASS |
| | | | | VH | -8.12 | -0.00439 | PASS |
| | | MCH | TN | VL | -1.08 | -0.00057 | PASS |
| | | | | VN | -3.54 | -0.00188 | PASS |
| | | | | VH | -7.49 | -0.00398 | PASS |
| | | HCH | TN | VL | -3.29 | -0.00172 | PASS |
| | | | | VN | -10.77 | -0.00564 | PASS |
| | | | | VH | -12.68 | -0.00664 | PASS |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA 850 | UMTS/TM 1 | LCH | TN | VL | -12.85 | -0.01555 | PASS |
| | | | | VN | -10.32 | -0.01249 | PASS |
| | | | | VH | -8.65 | -0.01047 | PASS |
| | | MCH | TN | VL | -2.51 | -0.00300 | PASS |
| | | | | VN | -3.54 | -0.00423 | PASS |
| | | | | VH | 1.58 | 0.00189 | PASS |
| | | HCH | TN | VL | -6.16 | -0.00728 | PASS |
| | | | | VN | -8.39 | -0.00991 | PASS |
| | | | | VH | -7.04 | -0.00832 | PASS |

| Test Band | Test Mode | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|------------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA 1900 | UMTS/TM 1 | LCH | TN | VL | -7.84 | -0.00423 | PASS |
| | | | | VN | -10.12 | -0.00546 | PASS |
| | | | | VH | -5.57 | -0.00301 | PASS |
| | | MCH | TN | VL | -4.31 | -0.00229 | PASS |
| | | | | VN | -5.57 | -0.00296 | PASS |
| | | | | VH | -7.49 | -0.00398 | PASS |
| | | HCH | TN | VL | -0.16 | -0.00008 | PASS |
| | | | | VN | -3.39 | -0.00178 | PASS |
| | | | | VH | -6.04 | -0.00317 | PASS |

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8.1.2 Frequency Error VS. Temperature

| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM850 | GSM/TM1 | LCH | VN | -30 | -2.11 | -0.00256 | PASS |
| | | | | -20 | -4.39 | -0.00533 | PASS |
| | | | | -10 | -4.71 | -0.00571 | PASS |
| | | | | 0 | -2.64 | -0.00320 | PASS |
| | | | | 10 | 6.05 | 0.00734 | PASS |
| | | | | 20 | 8.36 | 0.01014 | PASS |
| | | | | 30 | 2.45 | 0.00297 | PASS |
| | | | | 40 | 4.62 | 0.00561 | PASS |
| | | | | 50 | 6.07 | 0.00736 | PASS |
| | | MCH | VN | -30 | 10.13 | 0.01211 | PASS |
| | | | | -20 | 2.84 | 0.00339 | PASS |
| | | | | -10 | -0.38 | -0.00045 | PASS |
| | | | | 0 | -2.08 | -0.00249 | PASS |
| | | | | 10 | 5.31 | 0.00635 | PASS |
| | | | | 20 | -1.24 | -0.00148 | PASS |
| | | | | 30 | 0.82 | 0.00098 | PASS |
| | | | | 40 | 1.51 | 0.00180 | PASS |
| | | | | 50 | 2.24 | 0.00268 | PASS |
| | | HCH | VN | -30 | 3.37 | 0.00397 | PASS |
| | | | | -20 | 4.85 | 0.00571 | PASS |
| | | | | -10 | -3.77 | -0.00444 | PASS |
| | | | | 0 | -1.22 | -0.00144 | PASS |
| | | | | 10 | -0.96 | -0.00113 | PASS |
| | | | | 20 | -3.54 | -0.00417 | PASS |
| | | | | 30 | -11.42 | -0.01345 | PASS |
| | | | | 40 | -2.32 | -0.00273 | PASS |
| | | | | 50 | -7.71 | -0.00908 | PASS |

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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| GSM1900 | GSM/TM1 | LCH | VN | -30 | -14.71 | -0.00795 | PASS |
| | | | | -20 | -8.64 | -0.00467 | PASS |
| | | | | -10 | -13.81 | -0.00746 | PASS |
| | | | | 0 | -3.99 | -0.00216 | PASS |
| | | | | 10 | 1.88 | 0.00102 | PASS |
| | | | | 20 | -4.83 | -0.00261 | PASS |
| | | | | 30 | -13.61 | -0.00736 | PASS |
| | | | | 40 | -10.19 | -0.00551 | PASS |
| | | | | 50 | 3.56 | 0.00192 | PASS |
| | | MCH | VN | -30 | -5.54 | -0.00295 | PASS |
| | | | | -20 | -7.16 | -0.00381 | PASS |
| | | | | -10 | -12.9 | -0.00686 | PASS |
| | | | | 0 | -0.44 | -0.00023 | PASS |
| | | | | 10 | -15.1 | -0.00803 | PASS |
| | | | | 20 | -7.41 | -0.00394 | PASS |
| | | | | 30 | 2.66 | 0.00141 | PASS |
| | | | | 40 | -8.64 | -0.00460 | PASS |
| | | | | 50 | -11.68 | -0.00621 | PASS |
| | | HCH | VN | -30 | -14.45 | -0.00757 | PASS |
| | | | | -20 | -4.96 | -0.00260 | PASS |
| | | | | -10 | -6.51 | -0.00341 | PASS |
| | | | | 0 | -11.48 | -0.00601 | PASS |
| | | | | 10 | -4.23 | -0.00221 | PASS |
| | | | | 20 | 2.85 | 0.00149 | PASS |
| | | | | 30 | -6.06 | -0.00317 | PASS |
| | | | | 40 | -8.36 | -0.00438 | PASS |
| | | | | 50 | -11.93 | -0.00625 | PASS |

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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-----------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA 850 | UMTS/TM1 | LCH | VN | -30 | -4.25 | -0.00514 | PASS |
| | | | | -20 | 1.43 | 0.00173 | PASS |
| | | | | -10 | 0.57 | 0.00069 | PASS |
| | | | | 0 | -2.74 | -0.00332 | PASS |
| | | | | 10 | 0.51 | 0.00062 | PASS |
| | | | | 20 | -7.9 | -0.00956 | PASS |
| | | | | 30 | 1.58 | 0.00191 | PASS |
| | | | | 40 | 0.26 | 0.00031 | PASS |
| | | | | 50 | -0.95 | -0.00115 | PASS |
| | | MCH | VN | -30 | -1.7 | -0.00203 | PASS |
| | | | | -20 | -7.97 | -0.00953 | PASS |
| | | | | -10 | -5.23 | -0.00625 | PASS |
| | | | | 0 | -1.24 | -0.00148 | PASS |
| | | | | 10 | 2.44 | 0.00292 | PASS |
| | | | | 20 | 6.86 | 0.00820 | PASS |
| | | | | 30 | 5.75 | 0.00687 | PASS |
| | | | | 40 | 0.31 | 0.00037 | PASS |
| | | | | 50 | -0.13 | -0.00016 | PASS |
| | | HCH | VN | -30 | -1.18 | -0.00139 | PASS |
| | | | | -20 | 0.77 | 0.00091 | PASS |
| | | | | -10 | 6.88 | 0.00813 | PASS |
| | | | | 0 | -7.42 | -0.00876 | PASS |
| | | | | 10 | 1.67 | 0.00197 | PASS |
| | | | | 20 | -2.71 | -0.00320 | PASS |
| | | | | 30 | -3.87 | -0.00457 | PASS |
| | | | | 40 | -7.26 | -0.00858 | PASS |
| | | | | 50 | -12.79 | -0.01511 | PASS |

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| Test Band | Test Mode | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---------------|-----------|--------------|------------|------------|------------------|-----------------------|---------|
| WCDMA 1900 | UMTS/TM1 | LCH | VN | -30 | -10.66 | -0.00575 | PASS |
| | | | | -20 | 1.43 | 0.00077 | PASS |
| | | | | -10 | 0.57 | 0.00031 | PASS |
| | | | | 0 | -8.74 | -0.00472 | PASS |
| | | | | 10 | 0.51 | 0.00028 | PASS |
| | | | | 20 | -11.39 | -0.00615 | PASS |
| | | | | 30 | -0.58 | -0.00031 | PASS |
| | | | | 40 | 1.06 | 0.00057 | PASS |
| | | | | 50 | -0.95 | -0.00051 | PASS |
| | | MCH | VN | -30 | -6.7 | -0.00356 | PASS |
| | | | | -20 | -0.97 | -0.00052 | PASS |
| | | | | -10 | -5.23 | -0.00278 | PASS |
| | | | | 0 | -1.84 | -0.00098 | PASS |
| | | | | 10 | 2.08 | 0.00111 | PASS |
| | | | | 20 | 1.86 | 0.00099 | PASS |
| | | | | 30 | -7.75 | -0.00412 | PASS |
| | | | | 40 | 0.88 | 0.00047 | PASS |
| | | | | 50 | -0.66 | -0.00035 | PASS |
| | | HCH | VN | -30 | -3.58 | -0.00188 | PASS |
| | | | | -20 | 0.77 | 0.00040 | PASS |
| | | | | -10 | -2.81 | -0.00147 | PASS |
| | | | | 0 | -1.42 | -0.00074 | PASS |
| | | | | 10 | 1.67 | 0.00088 | PASS |
| | | | | 20 | -439 | -0.23013 | PASS |
| | | | | 30 | -8.82 | -0.00462 | PASS |
| | | | | 40 | -0.96 | -0.00050 | PASS |
| | | | | 50 | -12.25 | -0.00642 | PASS |

The End

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