

Report No.: SZEM180500457101

Page: 1 of 62

Appendix B

GSM850 & GSM1900



Report No.: SZEM180500457101

Page: 2 of 62

CONTENT

| | | | Page |
|----|------------|--|------|
| 1. | EFFECTIVE | (ISOTROPIC) RADIATED POWER OUTPUT DATA | 4 |
| | 1.1. Tes | st Result | 4 |
| 2. | PEAK-TO-A | Average Ratio | 5 |
| | 2.1. Tes | st Result | 5 |
| | 2.2. For | · GSM | 5 |
| | 2.2.1. 7 | Fest Band = GSM 850 | 5 |
| | 2.2.1.1. | Test Mode = GSM/TM1 | 5 |
| | 2.2.1.1.1. | Test Channel = LCH | 5 |
| | 2.2.1.1.2. | Test Channel = MCH | 6 |
| | 2.2.1.1.3. | Test Channel = HCH | 6 |
| | 2.2.1.2. | Test Mode = GSM/TM2 | 7 |
| | 2.2.1.2.1. | Test Channel = LCH | 7 |
| | 2.2.1.2.2. | Test Channel = MCH | 7 |
| | 2.2.1.2.3. | Test Channel = HCH | 8 |
| | 2.2.2. T | Fest Band = GSM 1900 | 8 |
| | 2.2.2.1. | Test Mode = GSM/TM1 | 8 |
| | 2.2.2.1.1. | Test Channel = LCH | 8 |
| | 2.2.2.1.2. | Test Channel = MCH | 9 |
| | 2.2.2.1.3. | Test Channel = HCH | 9 |
| | 2.2.2.2. | Test Mode = GSM/TM2 | 10 |
| | 2.2.2.2.1. | Test Channel = LCH | 10 |
| | 2.2.2.2.2. | Test Channel = MCH | 10 |
| | 2.2.2.2.3. | Test Channel = HCH | 11 |
| 3. | Modulat | ION CHARACTERISTICS | 12 |
| | 3.1. For | GSM | 12 |
| | 3.1.1. T | Fest BAND = GSM 850 | 12 |
| | 3.1.1.1. | Test Mode = GSM/TM1 | 12 |
| | 3.1.1.1.1. | Test Channel = MCH | 12 |
| | 3.1.1.2. | Test Mode = GSM/TM2 | 13 |
| | 3.1.1.2.1. | Test Channel = MCH | 13 |
| | 3.1.2. T | Fest BAND = GSM 1900 | 13 |
| | 3.1.2.1. | Test Mode = GSM/TM1 | 13 |
| | 3.1.2.1.1. | Test Channel = MCH | 13 |
| | 3.1.2.2. | Test Mode = GSM/TM2 | 14 |



Report No.: SZEM180500457101

Page: 3 of 62

| | 3.1.2. | 2.2.1. Test Channel = MCH | 14 |
|----|--------|------------------------------------|----|
| 4. | 26DE | B BANDWIDTH AND OCCUPIED BANDWIDTH | 15 |
| | 4.1. | Test Result | 15 |
| | 4.2. | Test Plots | 15 |
| 5. | Band | ID EDGE COMPLIANCE | 22 |
| | 5.1. | Test Plots | 22 |
| 6. | Spur | RIOUS EMISSION AT ANTENNA TERMINAL | 26 |
| | 6.1. | Test Plots | 26 |
| 7. | FIELD | d Strength of Spurious Radiation | 57 |
| | 7.1. | Test Band = GSM 1900 | 57 |
| | 7.1.1. | . Test Channel = LCH | 57 |
| | 7.1.2. | P. Test Channel = MCH | 57 |
| | 7.1.3. | 3. Test Channel = HCH | 58 |
| | 7.2. | Test Band = GSM 850 | 58 |
| | 7.2.1. | . Test Channel = LCH | 58 |
| | 7.2.2. | P. Test Channel = MCH | 59 |
| | 7.2.3. | 3. Test Channel = HCH | 59 |
| 8. | FREQ | QUENCY STABILITY | 60 |
| | 8.1. | Frequency Error Vs Voltage | 60 |
| | 8.2. | Frequency Error Vs Temperature | 61 |



Report No.: SZEM180500457101

Page: 4 of 62

1. Effective (Isotropic) Radiated Power Output Data

1.1.Test Result

| BAND | Channel | Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|------------|---------|------------|----------|------------|---------|
| GSM850/TM1 | 128 | 32.11 | 29.96 | 38.45 | PASS |
| GSM850/TM1 | 190 | 32.00 | 29.85 | 38.45 | PASS |
| GSM850/TM1 | 251 | 31.78 | 29.63 | 38.45 | PASS |
| GSM850/TM2 | 128 | 26.44 | 24.29 | 38.45 | PASS |
| GSM850/TM2 | 190 | 26.47 | 24.32 | 38.45 | PASS |
| GSM850/TM2 | 251 | 26.56 | 24.41 | 38.45 | PASS |

| BAND | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|-------------|---------|------------|-----------|------------|---------|
| GSM1900/TM1 | 512 | 28.72 | 28.22 | 33.00 | PASS |
| GSM1900/TM1 | 661 | 28.83 | 28.33 | 33.00 | PASS |
| GSM1900/TM1 | 810 | 28.74 | 28.24 | 33.00 | PASS |
| GSM1900/TM2 | 512 | 25.34 | 24.84 | 33.00 | PASS |
| GSM1900/TM2 | 661 | 25.37 | 24.87 | 33.00 | PASS |
| GSM1900/TM2 | 810 | 25.39 | 24.89 | 33.00 | PASS |

Note:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



Report No.: SZEM180500457101

Page: 5 of 62

2. Peak-to-Average Ratio

2.1.Test Result

| BAND | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------------|---------|---------------------------|-----------|---------|
| GSM850/TM1 | 128 | 7.71 | 13 | PASS |
| GSM850/TM1 | 190 | 7.74 | 13 | PASS |
| GSM850/TM1 | 251 | 7.74 | 13 | PASS |
| GSM850/TM2 | 128 | 10.58 | 13 | PASS |
| GSM850/TM2 | 190 | 10.38 | 13 | PASS |
| GSM850/TM2 | 251 | 10.75 | 13 | PASS |
| GSM1900/TM1 | 512 | 7.71 | 13 | PASS |
| GSM1900/TM1 | 661 | 7.71 | 13 | PASS |
| GSM1900/TM1 | 810 | 7.65 | 13 | PASS |
| GSM1900/TM2 | 512 | 10.61 | 13 | PASS |
| GSM1900/TM2 | 661 | 10.43 | 13 | PASS |
| GSM1900/TM2 | 810 | 10.84 | 13 | PASS |

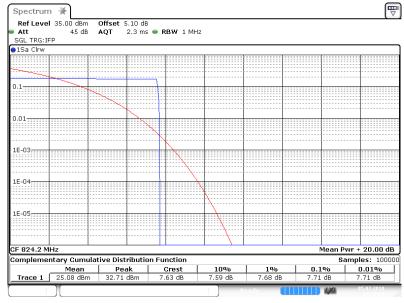
Part II - Test Plots

2.2. For GSM

2.2.1. Test Band = GSM 850

2.2.1.1. Test Mode = GSM/TM1

2.2.1.1.1. Test Channel = LCH



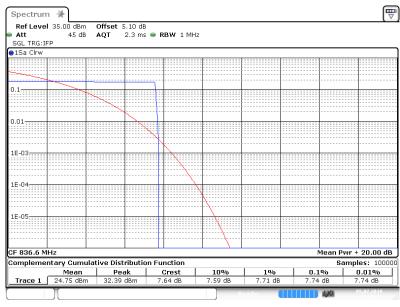
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Report No.: SZEM180500457101

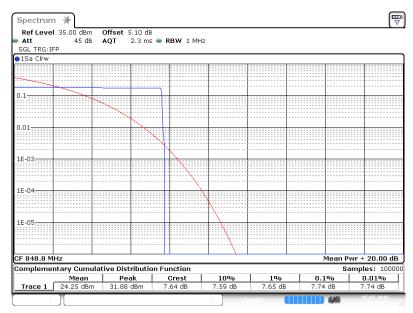
Page: 6 of 62

2.2.1.1.2. Test Channel = MCH



Date: 5 JUL 2018 13:45:33

2.2.1.1.3. Test Channel = HCH



Date: 5JUL 2018 13:45:58

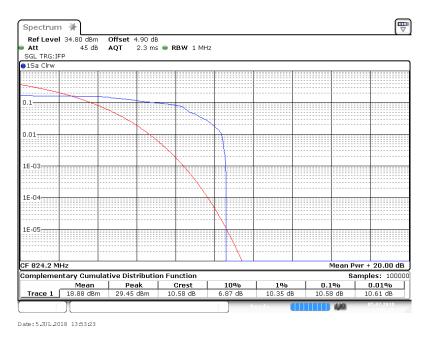


Report No.: SZEM180500457101

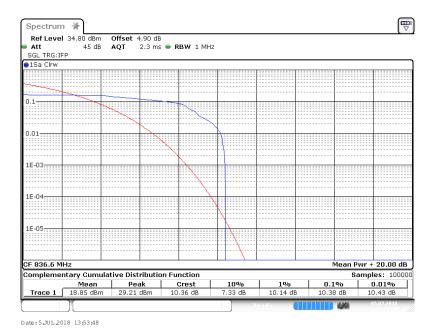
Page: 7 of 62

2.2.1.2. **Test Mode = GSM/TM2**

2.2.1.2.1. Test Channel = LCH



2.2.1.2.2. Test Channel = MCH

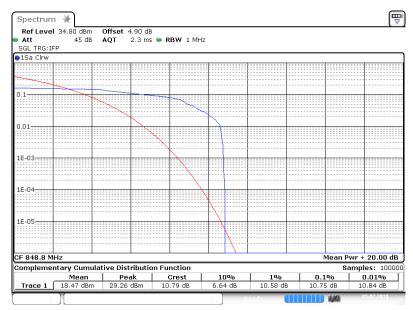




Report No.: SZEM180500457101

Page: 8 of 62

2.2.1.2.3. Test Channel = HCH

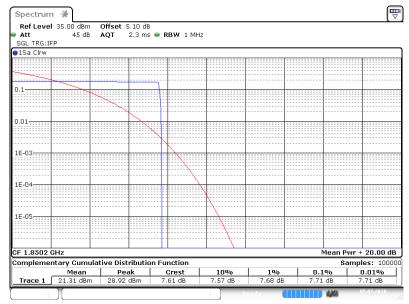


Date: 5.JUL 2018 13:54:13

2.2.2. Test Band = GSM 1900

2.2.2.1. Test Mode = GSM/TM1

2.2.2.1.1. Test Channel = LCH



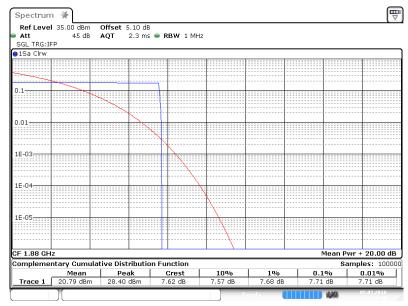
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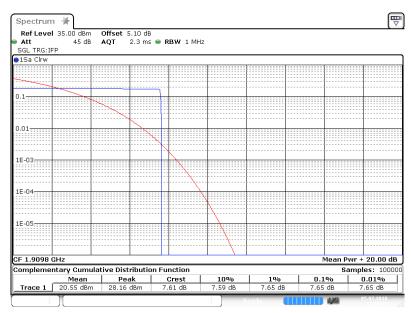
Page: 9 of 62

2.2.2.1.2. Test Channel = MCH



Date: 5JUL 2018 13:20:19

2.2.2.1.3. Test Channel = HCH



Date: 5JUL 2018 13:20:43

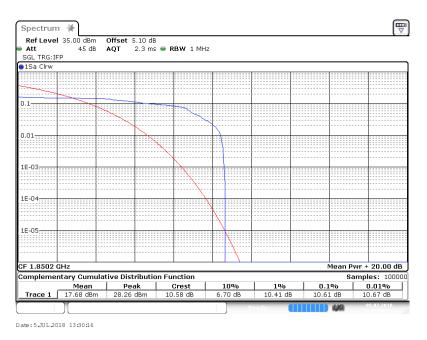


Report No.: SZEM180500457101

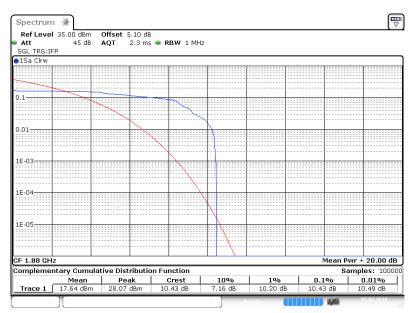
Page: 10 of 62

2.2.2.2. Test Mode = GSM/TM2

2.2.2.2.1. Test Channel = LCH



2.2.2.2.2. Test Channel = MCH



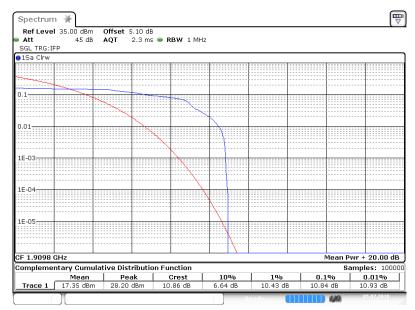
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Report No.: SZEM180500457101

Page: 11 of 62

2.2.2.2.3. Test Channel = HCH



Date: 5.JUL.2018 13:31:06



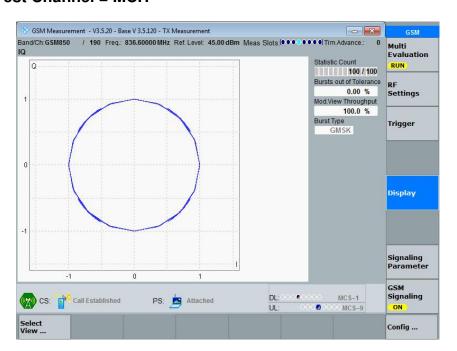
Report No.: SZEM180500457101

Page: 12 of 62

3. Modulation Characteristics

- 3.1. For GSM
- 3.1.1. Test BAND = GSM 850
- 3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH



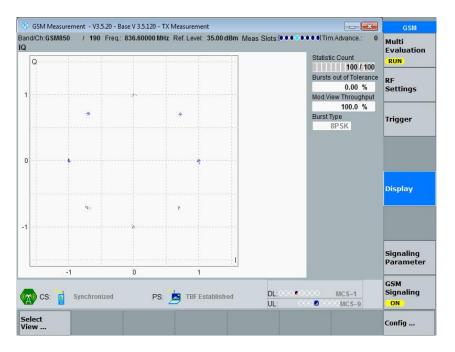


Report No.: SZEM180500457101

Page: 13 of 62

3.1.1.2. Test Mode = GSM/TM2

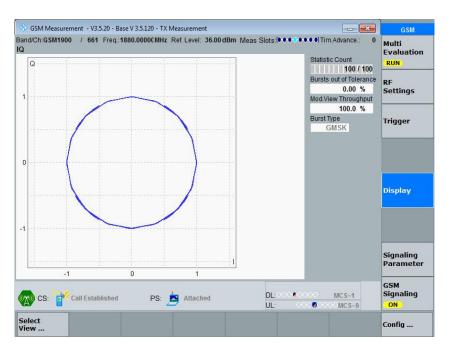
3.1.1.2.1. Test Channel = MCH



3.1.2. Test BAND = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



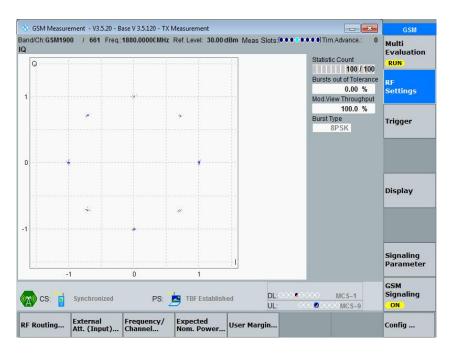


Report No.: SZEM180500457101

Page: 14 of 62

3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH





Report No.: SZEM180500457101

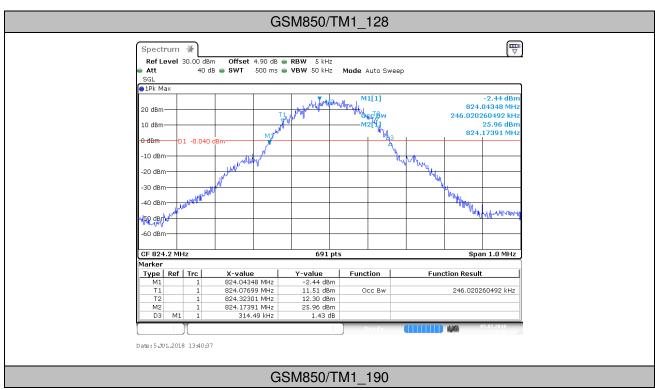
Page: 15 of 62

4. 26dB Bandwidth and Occupied Bandwidth

4.1.Test Result

| BAND | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------------|---------|--------------------------|-------------------------|------------|---------|
| GSM850/TM1 | 128 | 246.02 | 314.49 | | PASS |
| GSM850/TM1 | 190 | 246.02 | 315.94 | | PASS |
| GSM850/TM1 | 251 | 244.57 | 302.90 | | PASS |
| GSM850/TM2 | 128 | 250.36 | 298.55 | | PASS |
| GSM850/TM2 | 190 | 251.81 | 298.55 | | PASS |
| GSM850/TM2 | 251 | 243.13 | 295.65 | | PASS |
| GSM1900/TM1 | 512 | 244.57 | 295.65 | | PASS |
| GSM1900/TM1 | 661 | 246.02 | 291.30 | | PASS |
| GSM1900/TM1 | 810 | 244.57 | 302.90 | | PASS |
| GSM1900/TM2 | 512 | 250.36 | 302.90 | | PASS |
| GSM1900/TM2 | 661 | 247.47 | 300.00 | | PASS |
| GSM1900/TM2 | 810 | 246.02 | 304.35 | | PASS |

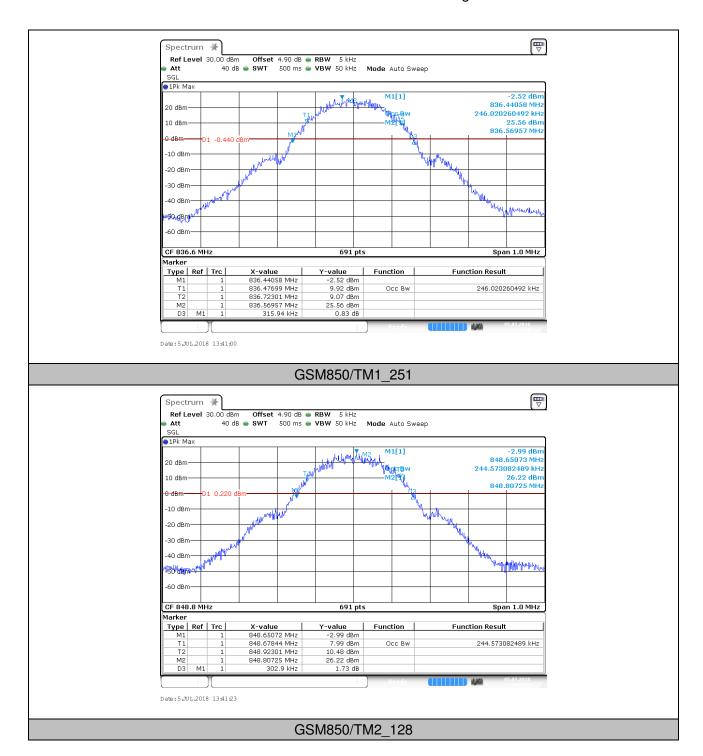
4.2.Test Plots





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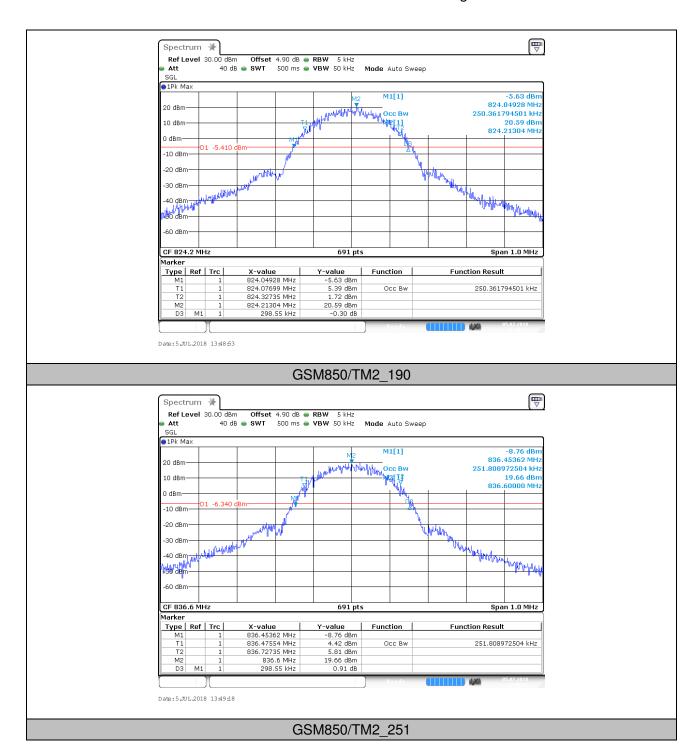
Page: 16 of 62





Report No.: SZEM180500457101

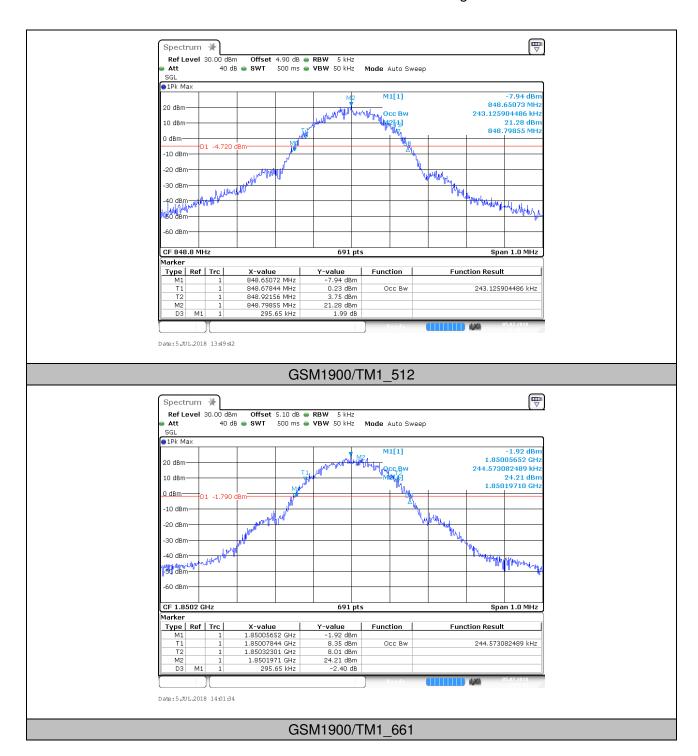
Page: 17 of 62





Report No.: SZEM180500457101

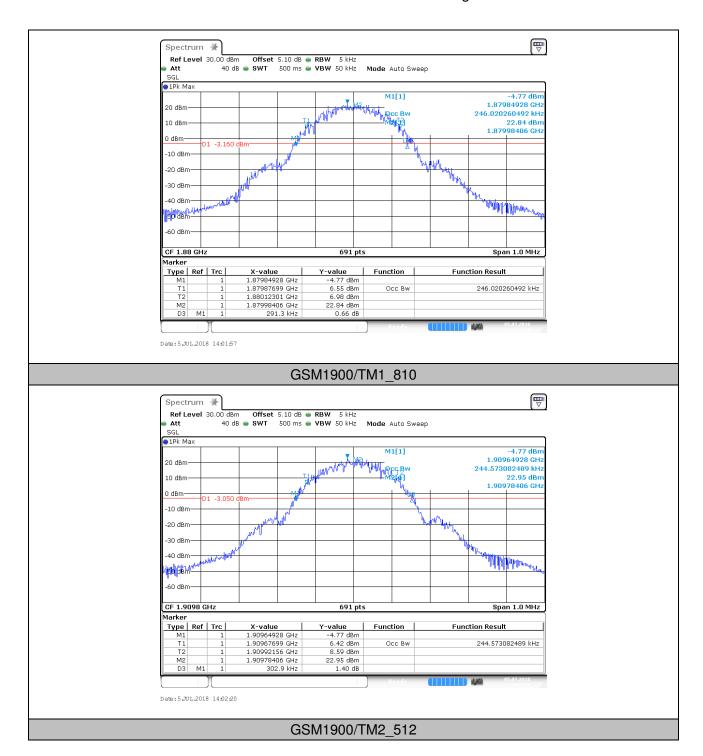
Page: 18 of 62





Report No.: SZEM180500457101

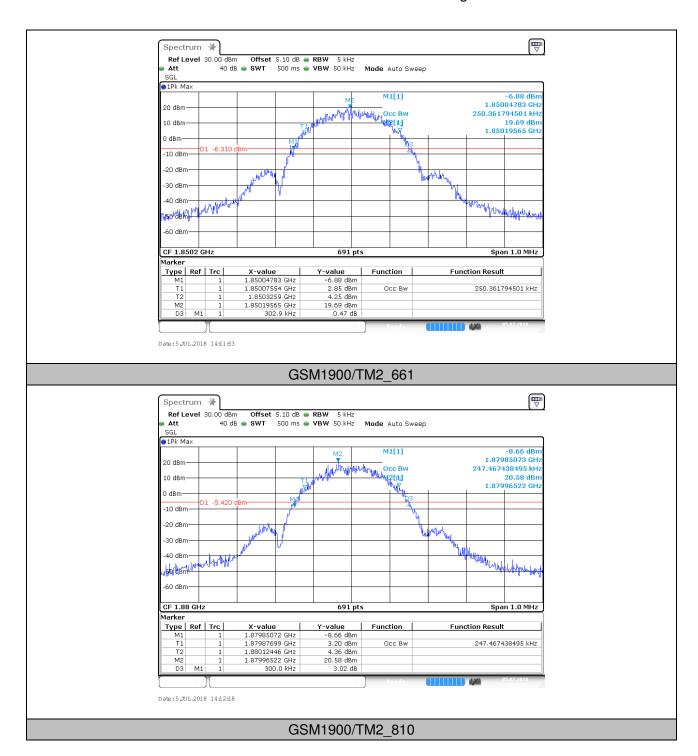
Page: 19 of 62





Report No.: SZEM180500457101

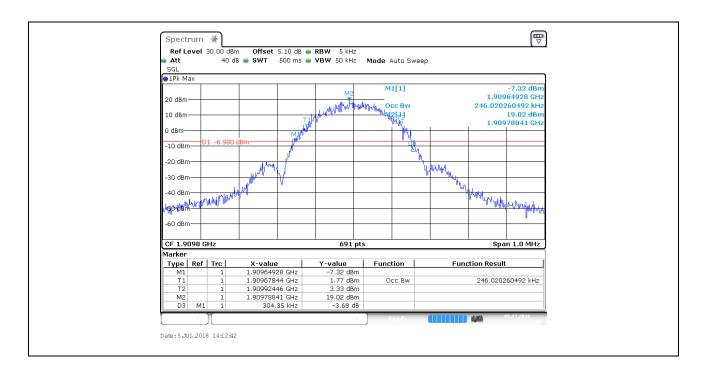
Page: 20 of 62





Report No.: SZEM180500457101

Page: 21 of 62



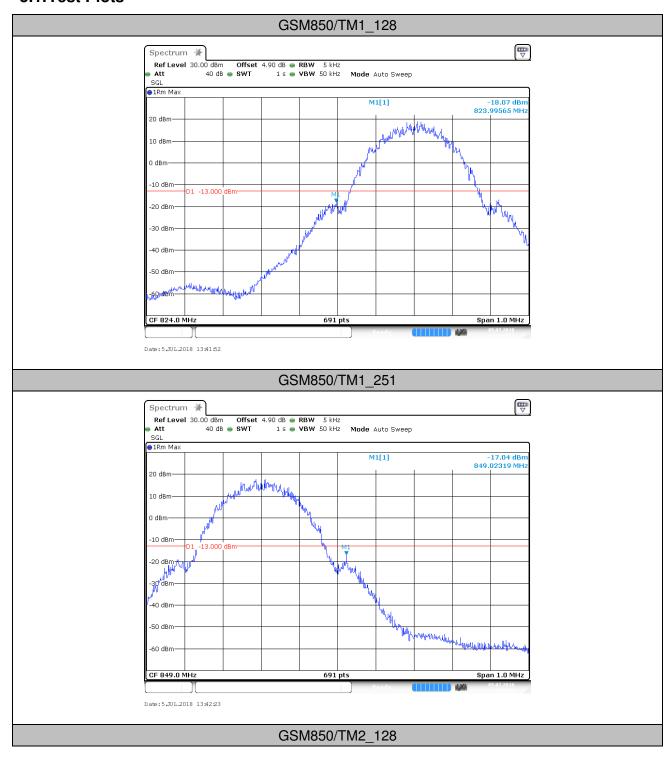


Report No.: SZEM180500457101

Page: 22 of 62

5. Band Edge Compliance

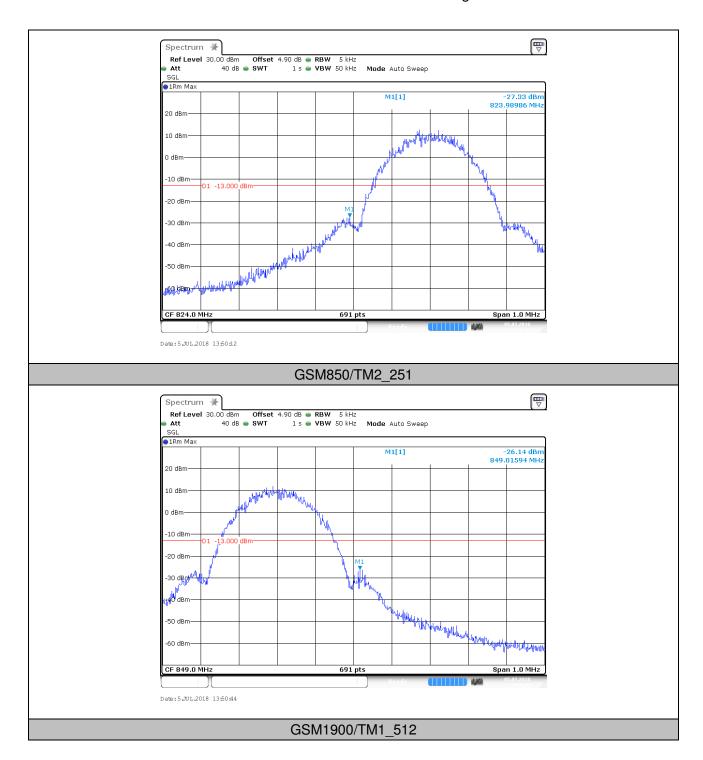
5.1.Test Plots





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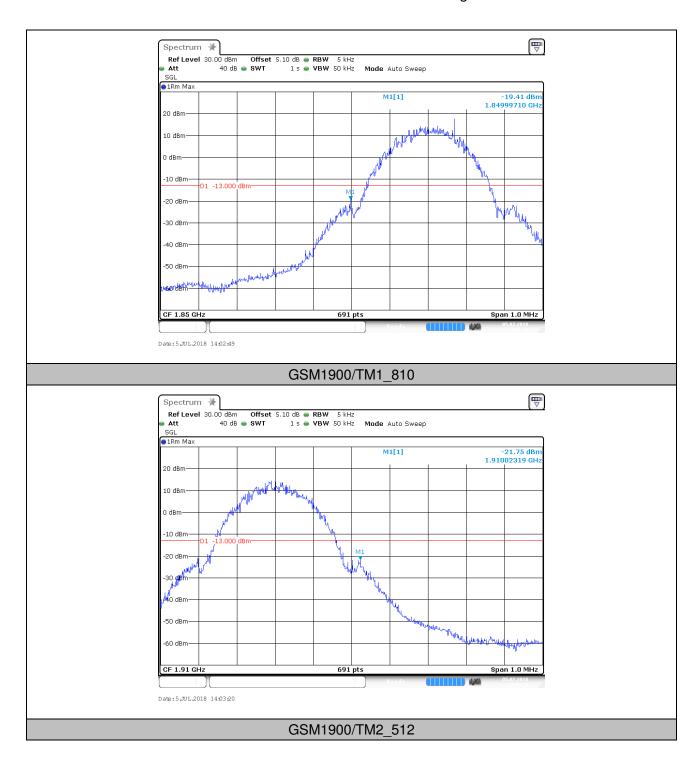
Page: 23 of 62





Report No.: SZEM180500457101

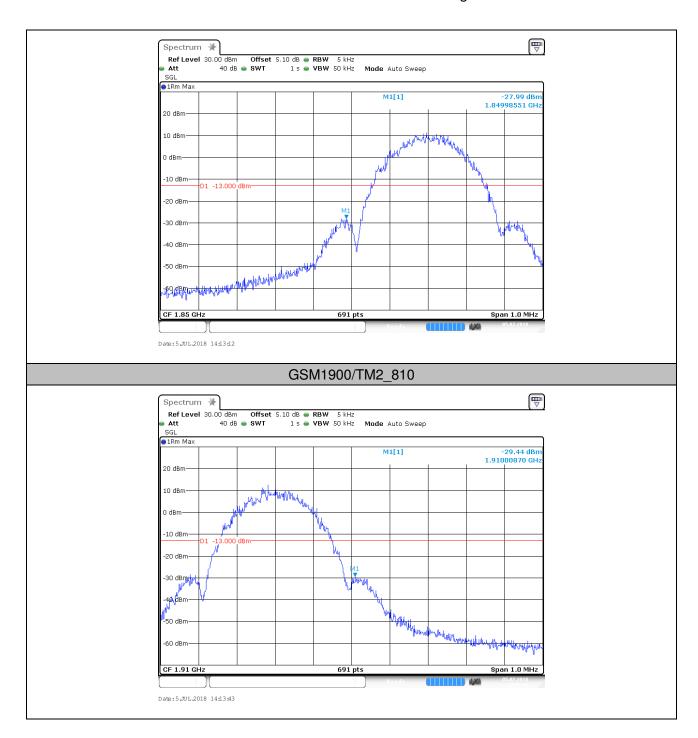
Page: 24 of 62





Report No.: SZEM180500457101

Page: 25 of 62





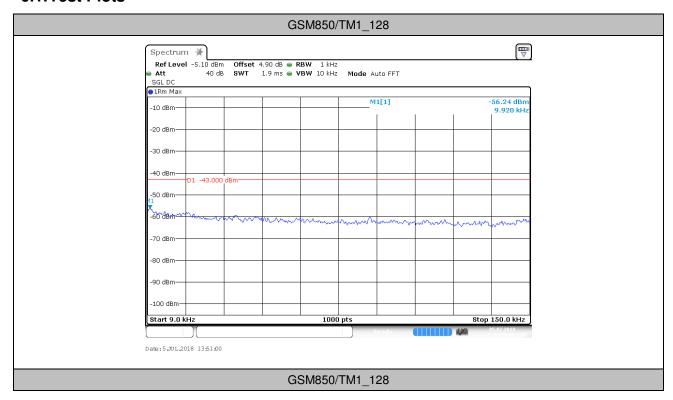
Report No.: SZEM180500457101

Page: 26 of 62

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 = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW) with k = 4 * (Span / RBW).

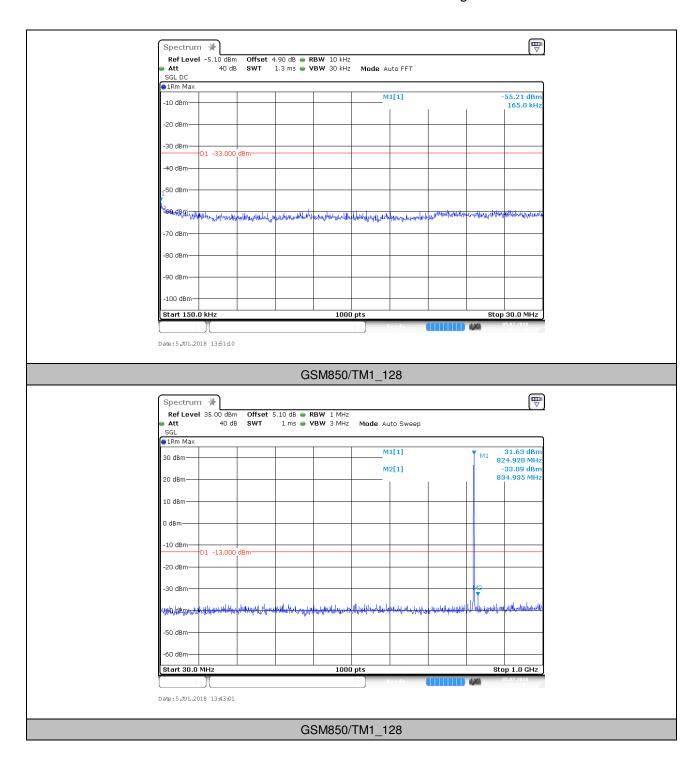
6.1. Test Plots





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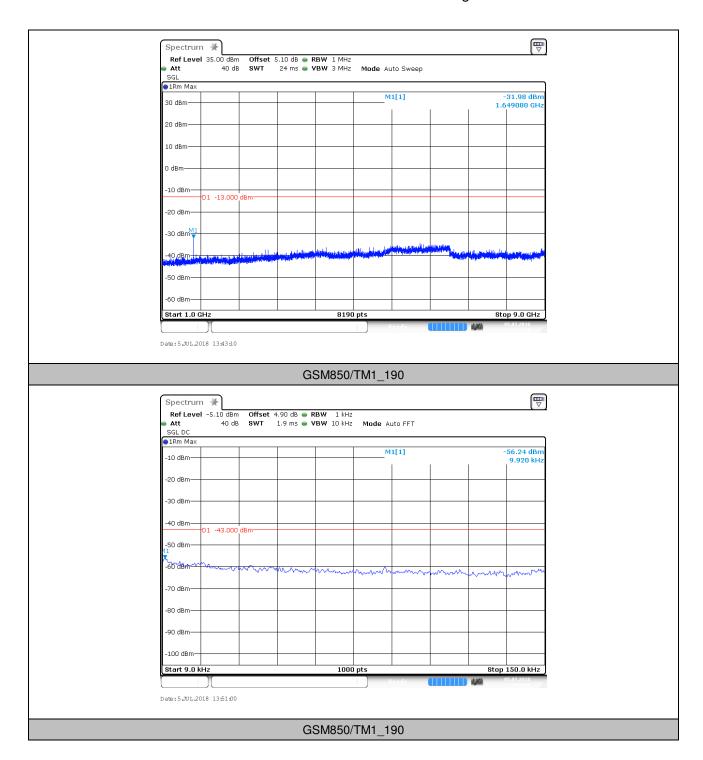
Page: 27 of 62





Report No.: SZEM180500457101

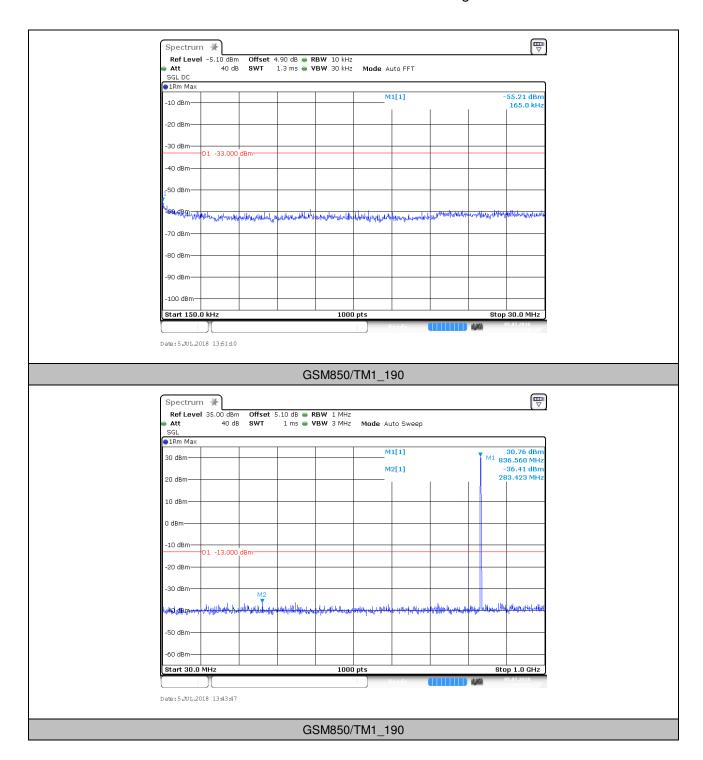
Page: 28 of 62





Report No.: SZEM180500457101

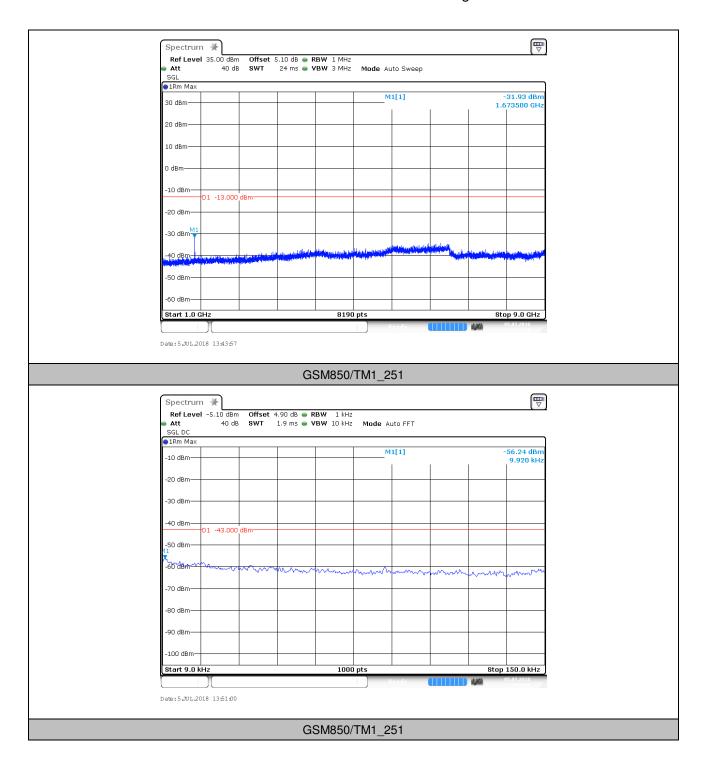
Page: 29 of 62





Report No.: SZEM180500457101

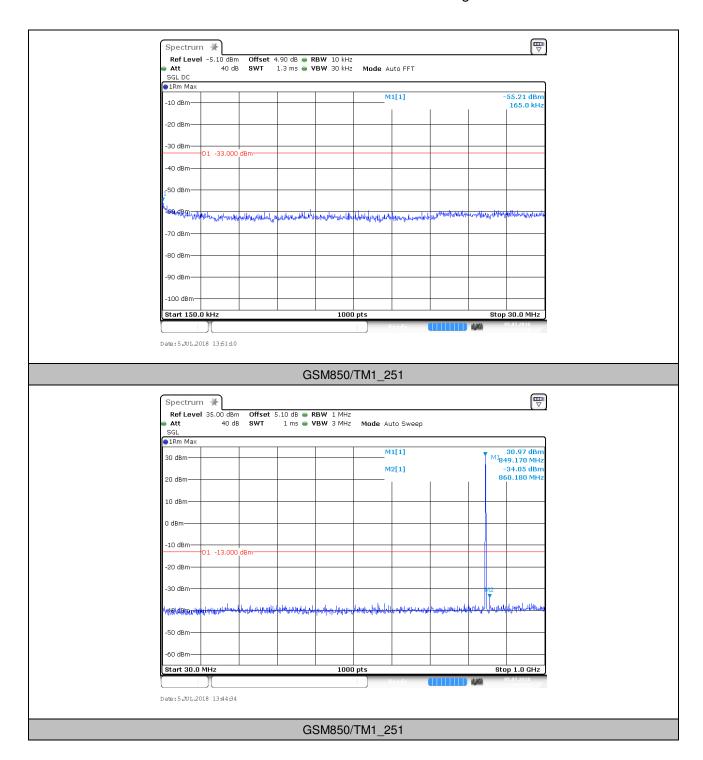
Page: 30 of 62





Report No.: SZEM180500457101

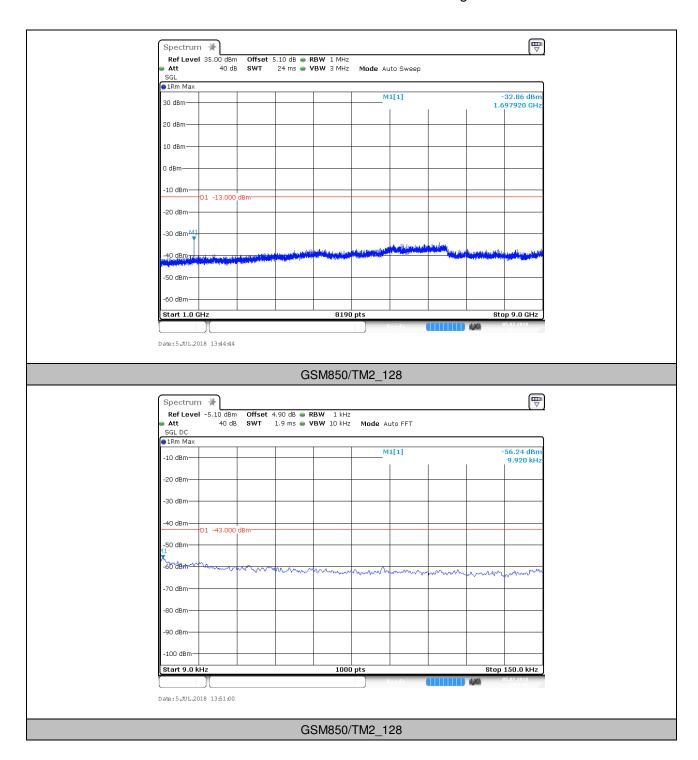
Page: 31 of 62





Report No.: SZEM180500457101

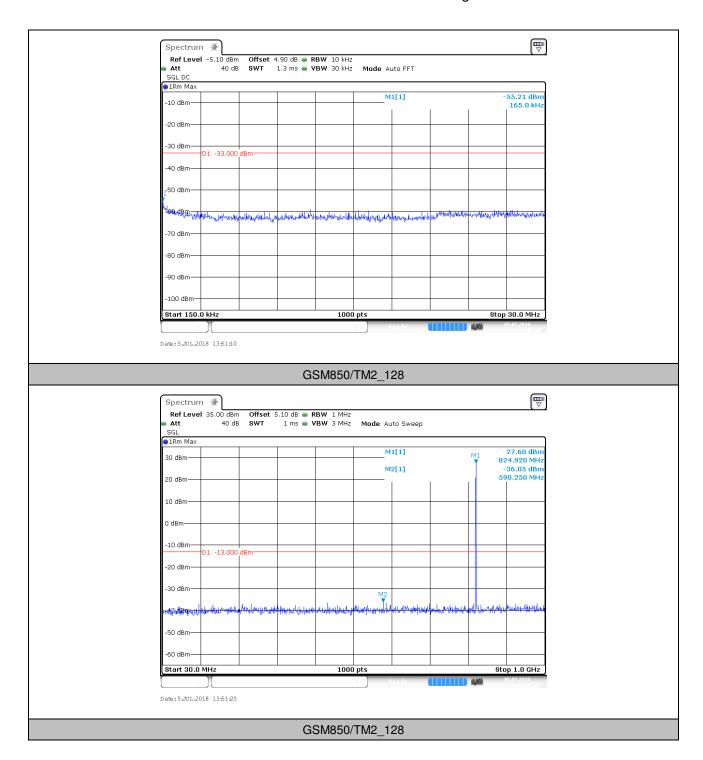
Page: 32 of 62





Report No.: SZEM180500457101

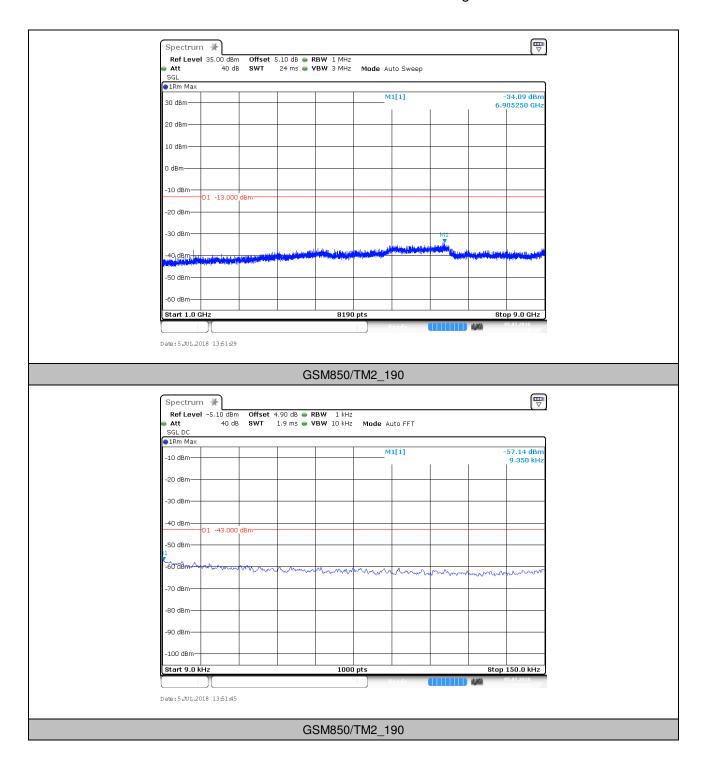
Page: 33 of 62





Report No.: SZEM180500457101

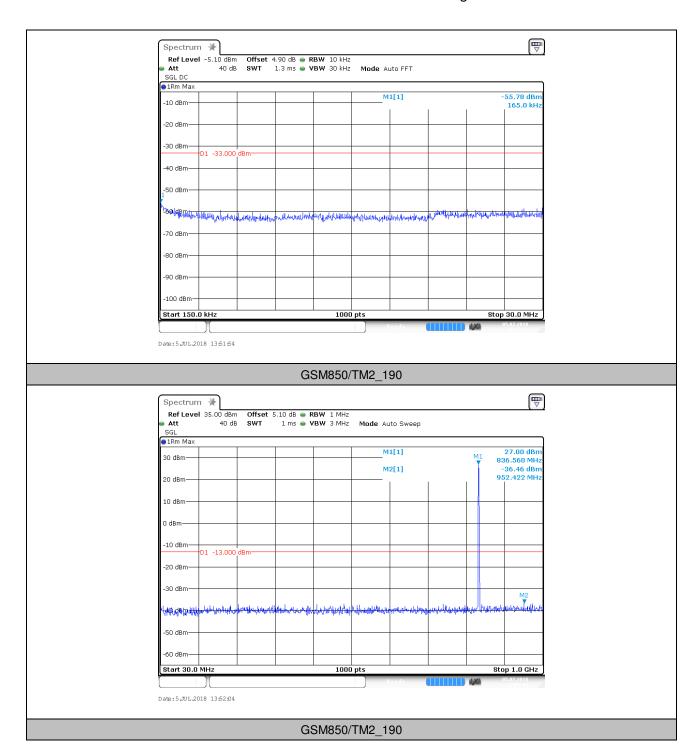
Page: 34 of 62





Report No.: SZEM180500457101

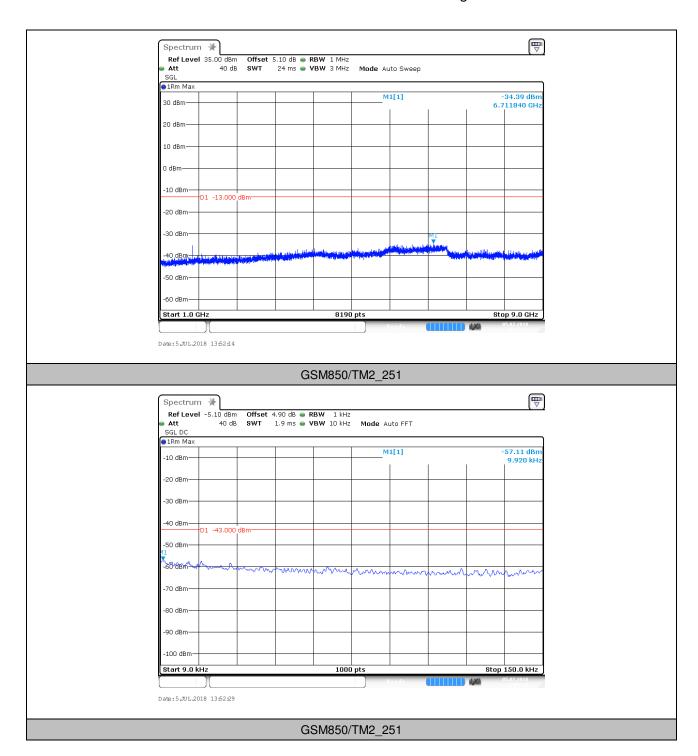
Page: 35 of 62





Report No.: SZEM180500457101

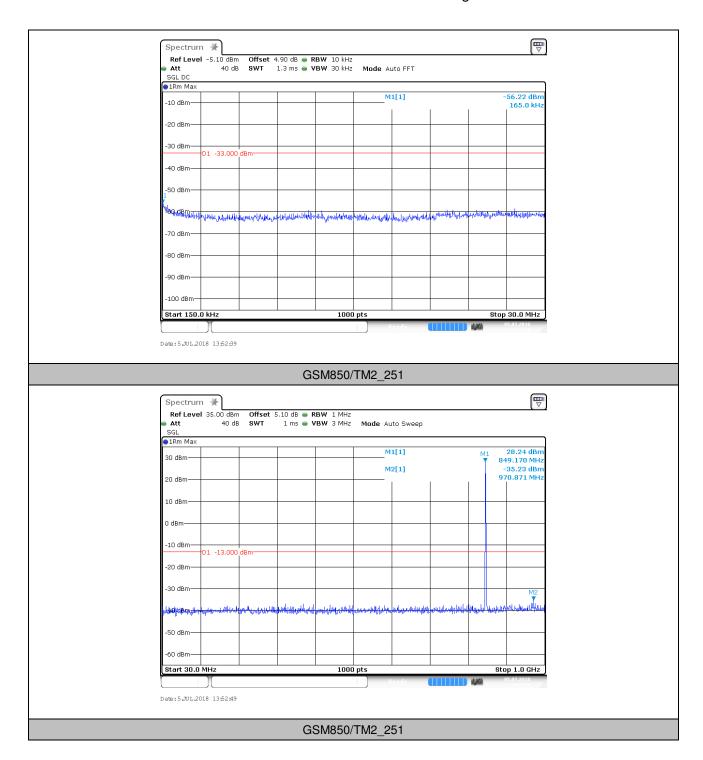
Page: 36 of 62





Report No.: SZEM180500457101

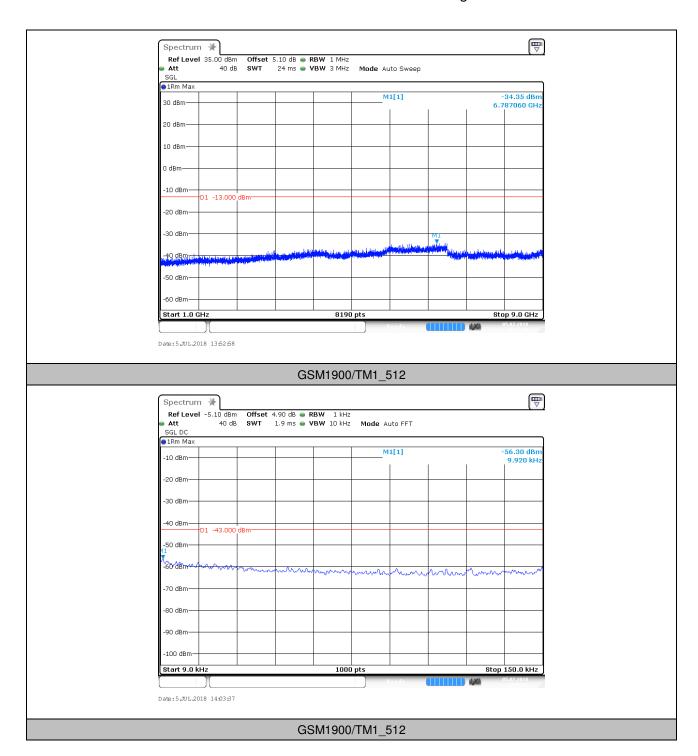
Page: 37 of 62





Report No.: SZEM180500457101

Page: 38 of 62





Report No.: SZEM180500457101

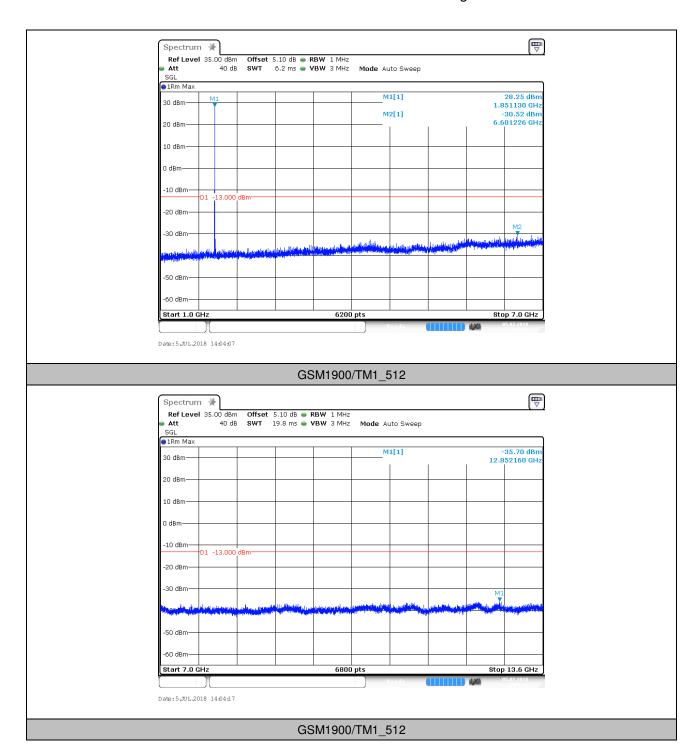
Page: 39 of 62





Report No.: SZEM180500457101

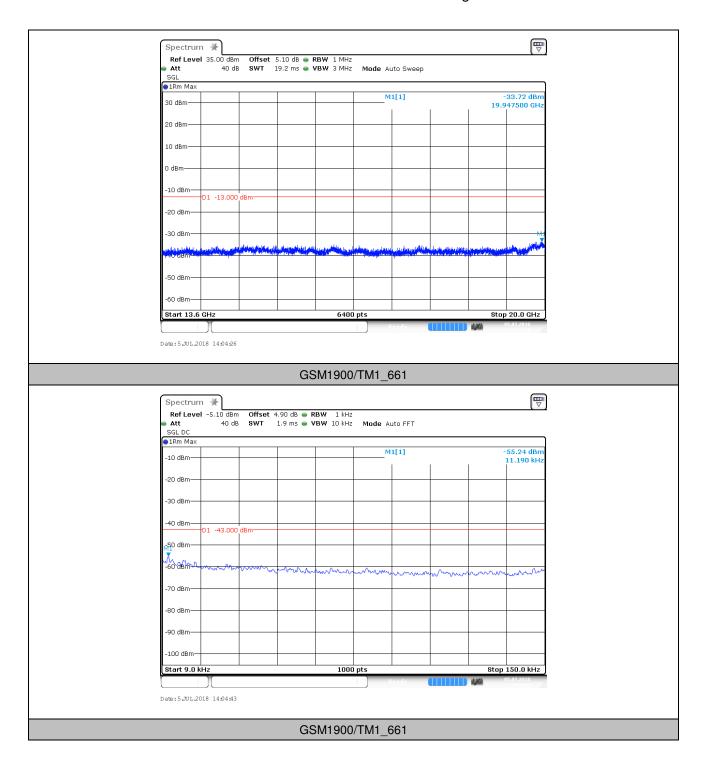
Page: 40 of 62





Report No.: SZEM180500457101

Page: 41 of 62





Report No.: SZEM180500457101

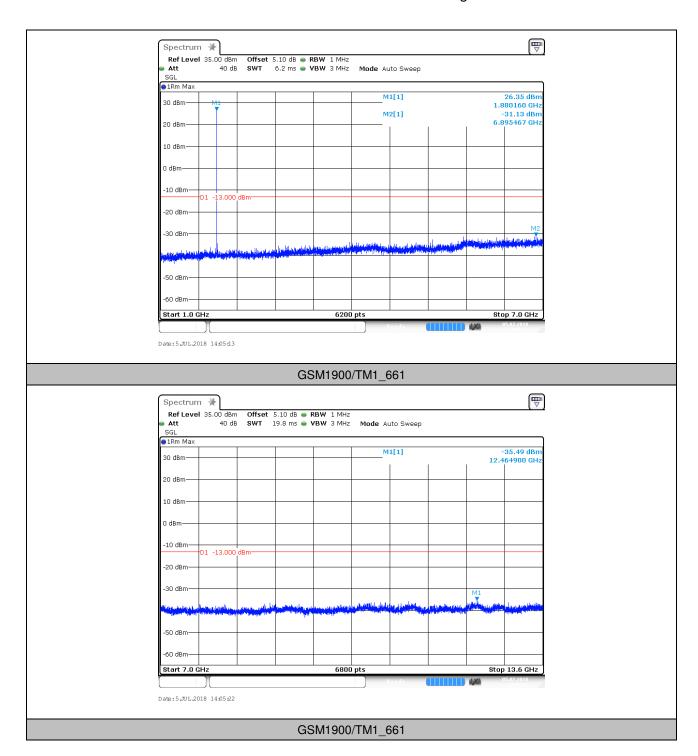
Page: 42 of 62





Report No.: SZEM180500457101

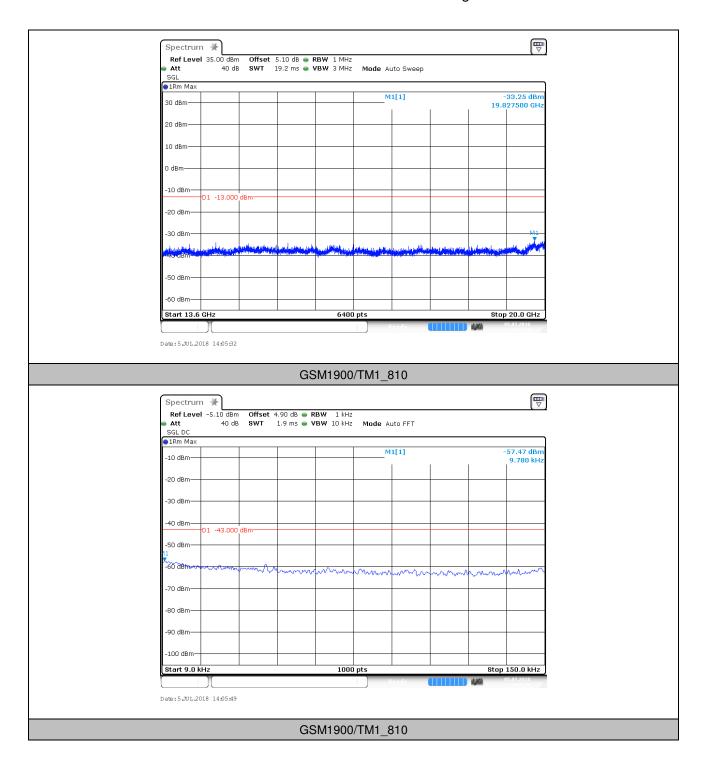
Page: 43 of 62





Report No.: SZEM180500457101

Page: 44 of 62





Report No.: SZEM180500457101

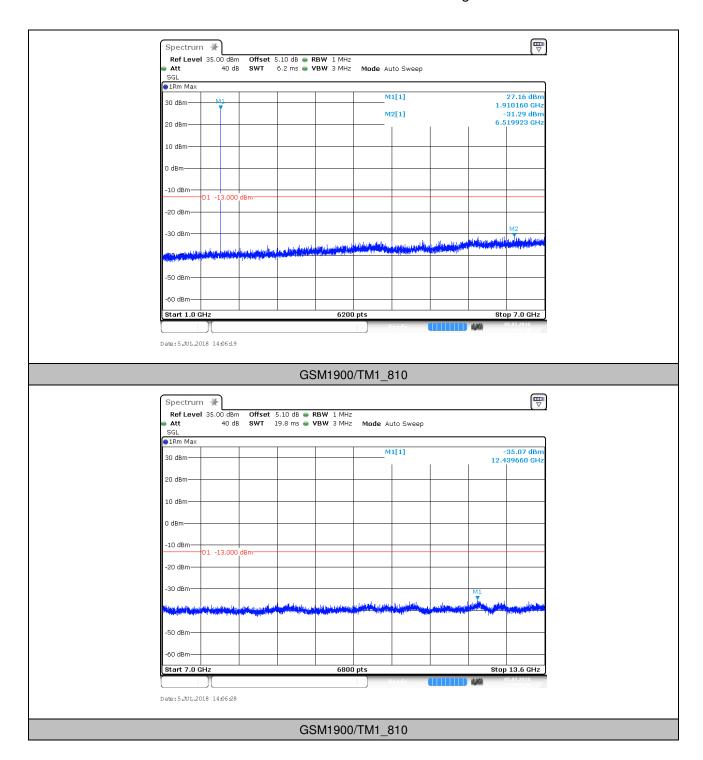
Page: 45 of 62





Report No.: SZEM180500457101

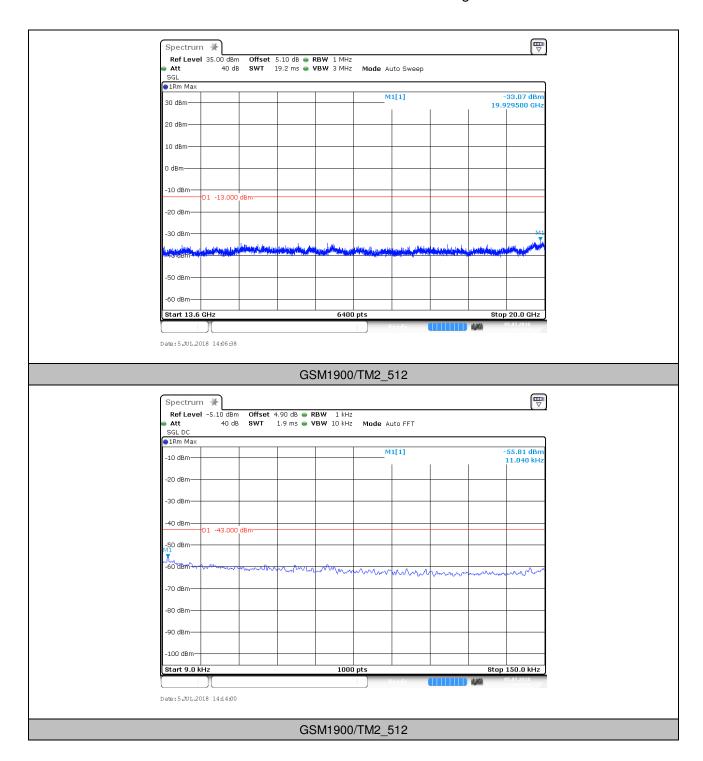
Page: 46 of 62





Report No.: SZEM180500457101

Page: 47 of 62





Report No.: SZEM180500457101

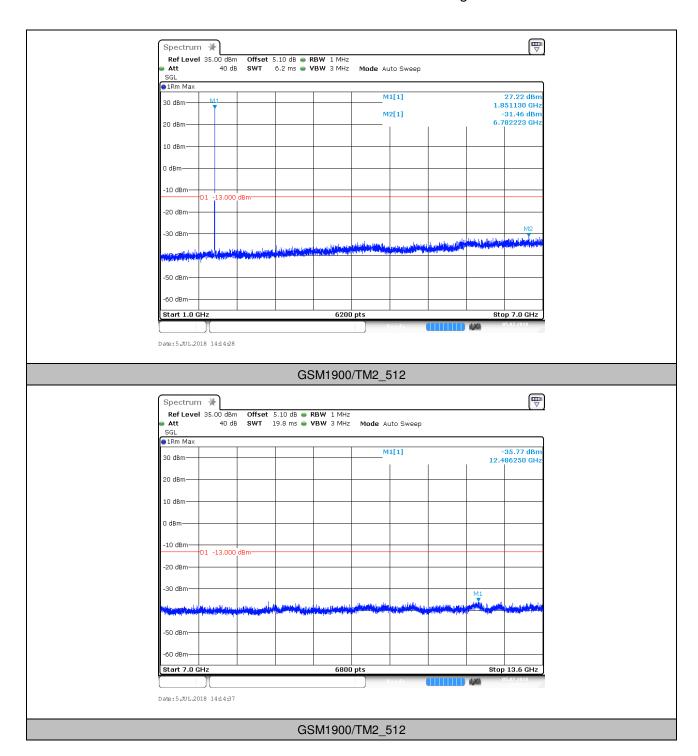
Page: 48 of 62





Report No.: SZEM180500457101

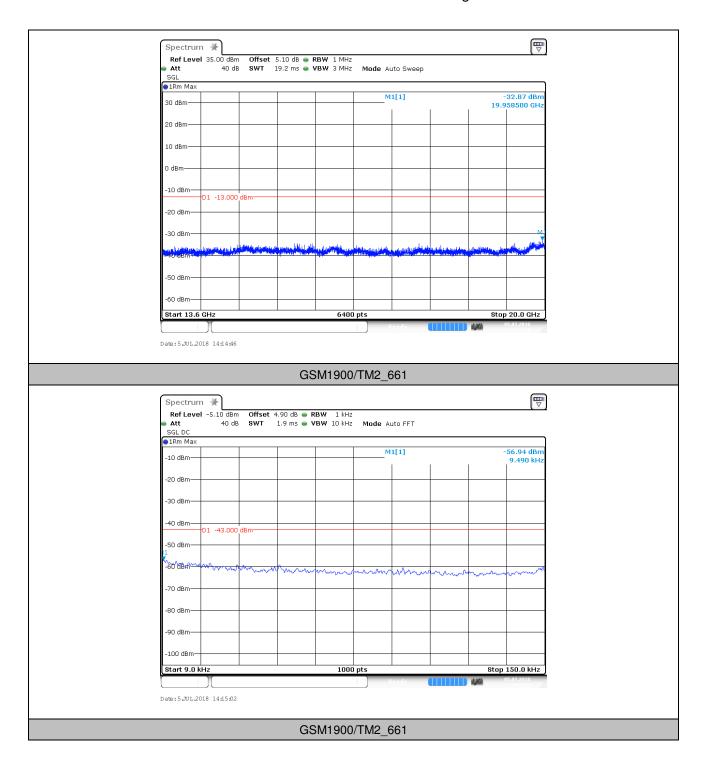
Page: 49 of 62





Report No.: SZEM180500457101

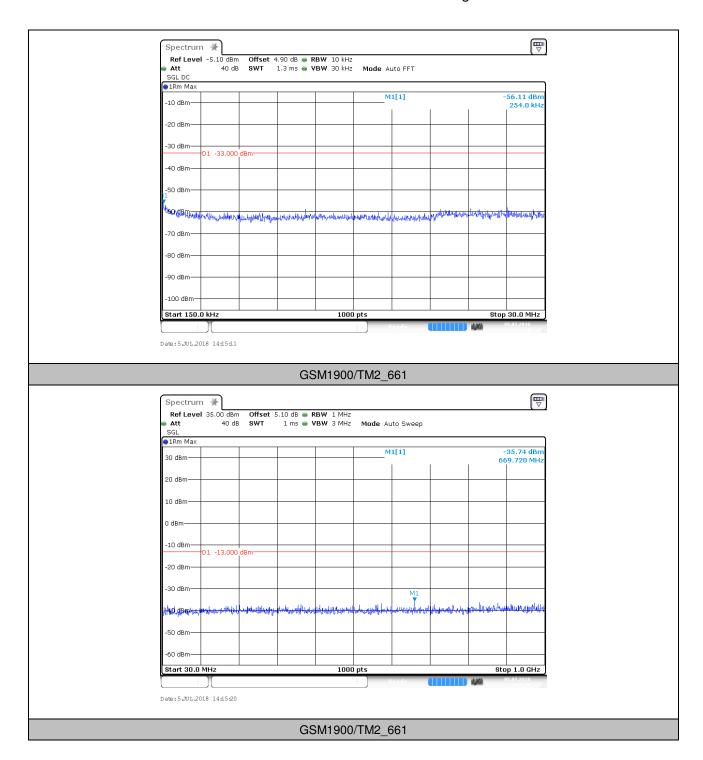
Page: 50 of 62





Report No.: SZEM180500457101

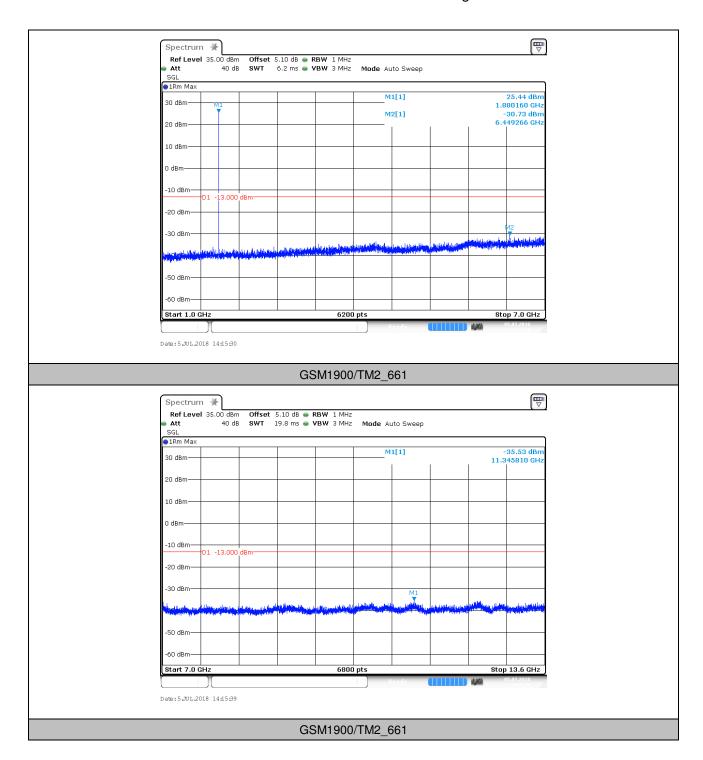
Page: 51 of 62





Report No.: SZEM180500457101

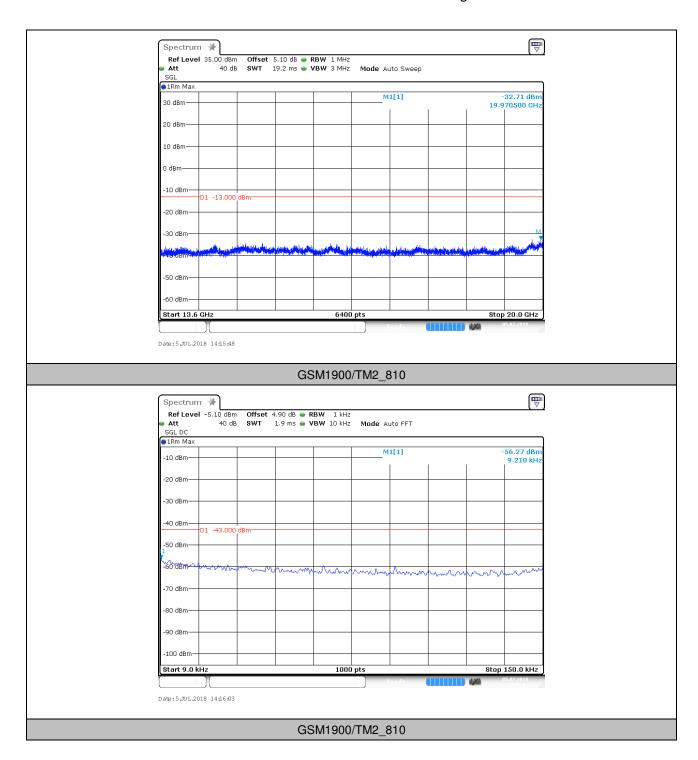
Page: 52 of 62





Report No.: SZEM180500457101

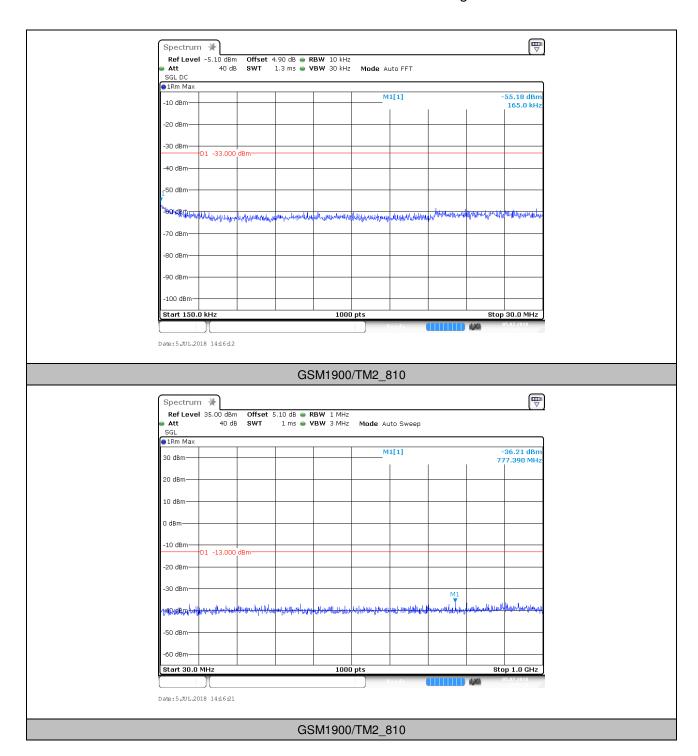
Page: 53 of 62





Report No.: SZEM180500457101

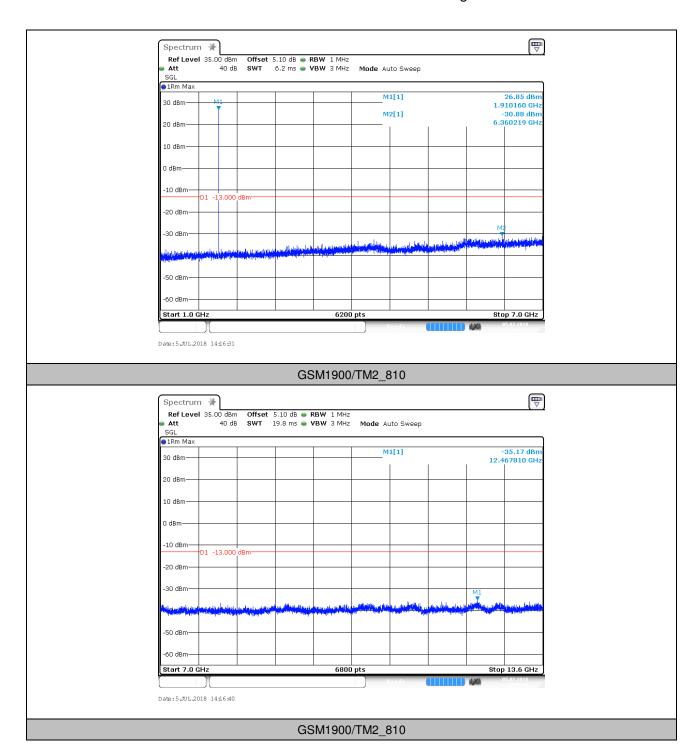
Page: 54 of 62





Report No.: SZEM180500457101

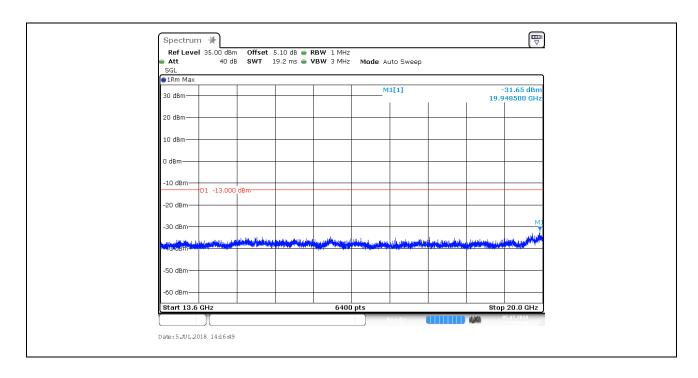
Page: 55 of 62





Report No.: SZEM180500457101

Page: 56 of 62





Report No.: SZEM180500457101

Page: 57 of 62

7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization | |
|-----------------|-------------|------------------|-------------|--------------|--|
| 60.700500 | -68.89 | -13.00 | 55.89 | Vertical | |
| 187.528000 | -64.87 | -13.00 | 51.87 | Vertical | |
| 299.999500 | -63.57 | -13.00 | 50.57 | Vertical | |
| 3700.350000 | -56.39 | -13.00 | 43.39 | Vertical | |
| 5098.950000 | -54.29 | -13.00 | 41.29 | Vertical | |
| 7010.650000 | -53.36 | -13.00 | 40.36 | Vertical | |
| 61.234000 | -61.97 | -13.00 | 48.97 | Horizontal | |
| 187.431000 | -63.56 | -13.00 | 50.56 | Horizontal | |
| 299.999500 | -63.03 | -13.00 | 50.03 | Horizontal | |
| 3700.350000 | -53.37 | -13.00 | 40.37 | Horizontal | |
| 5550.450000 | -50.63 | -13.00 | 37.63 | Horizontal | |
| 7939.200000 | -51.55 | -13.00 | 38.55 | Horizontal | |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization | |
|-----------------|-------------|------------------|-------------|--------------|--|
| 62.786000 | -66.84 | -13.00 | 53.84 | Vertical | |
| 187.479500 | -64.77 | -13.00 | 51.77 | Vertical | |
| 299.999500 | -62.38 | -13.00 | 49.38 | Vertical | |
| 3760.200000 | -55.13 | -13.00 | 42.13 | Vertical | |
| 4876.700000 | -54.96 | -13.00 | 41.96 | Vertical | |
| 6147.200000 | -52.78 | -13.00 | 39.78 | Vertical | |
| 61.476500 | -61.37 | -13.00 | 48.37 | Horizontal | |
| 187.479500 | -61.84 | -13.00 | 48.84 | Horizontal | |
| 299.999500 | -63.95 | -13.00 | 50.95 | Horizontal | |
| 3759.850000 | -53.63 | -13.00 | 40.63 | Horizontal | |
| 5222.500000 | -55.08 | -13.00 | 42.08 | Horizontal | |
| 7806.200000 | -52.74 | -13.00 | 39.74 | Horizontal | |



Report No.: SZEM180500457101

Page: 58 of 62

7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization | |
|-----------------|-------------|------------------|-------------|--------------|--|
| 61.185500 | -67.90 | -13.00 | 54.90 | Vertical | |
| 187.479500 | -64.70 | -13.00 | 51.70 | Vertical | |
| 299.999500 | -63.54 | -13.00 | 50.54 | Vertical | |
| 3819.350000 | -54.09 | -13.00 | 41.09 | Vertical | |
| 5472.750000 | -55.29 | -13.00 | 42.29 | Vertical | |
| 6531.500000 | -53.00 | -13.00 | 40.00 | Vertical | |
| 61.525000 | -59.81 | -13.00 | 46.81 | Horizontal | |
| 187.479500 | -62.21 | -13.00 | 49.21 | Horizontal | |
| 299.999500 | -63.51 | -13.00 | 50.51 | Horizontal | |
| 3819.000000 | -55.10 | -13.00 | 42.10 | Horizontal | |
| 5730.000000 | -46.24 | -13.00 | 33.24 | Horizontal | |
| 7244.450000 | -52.53 | -13.00 | 39.53 | Horizontal | |

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) Margin (dB) | | Polarization | |
|-----------------|-------------|------------------------------|-------|--------------|--|
| 59.973000 | -62.87 | -13.00 | 49.87 | Vertical | |
| 187.479500 | -63.75 | -13.00 | 50.75 | Vertical | |
| 299.999500 | -64.27 | -13.00 | 51.27 | Vertical | |
| 1648.500000 | -52.60 | -13.00 | 39.60 | Vertical | |
| 3796.250000 | -56.55 | -13.00 | 43.55 | Vertical | |
| 5073.750000 | -54.79 | -13.00 | 41.79 | Vertical | |
| 60.458000 | -61.46 | -13.00 | 48.46 | Horizontal | |
| 187.479500 | -61.13 | -13.00 | 48.13 | Horizontal | |
| 412.471000 | -63.91 | -13.00 | 50.91 | Horizontal | |
| 1648.275000 | -50.68 | -13.00 | 37.68 | Horizontal | |
| 3603.750000 | -57.73 | -13.00 | 44.73 | Horizontal | |
| 5459.100000 | -55.29 | -13.00 | 42.29 | Horizontal | |



Report No.: SZEM180500457101

Page: 59 of 62

7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization | |
|-----------------|-------------|------------------|-------------|--------------|--|
| 61.961500 | -67.74 | -13.00 | 54.74 | Vertical | |
| 187.479500 | -64.03 | -13.00 | 51.03 | Vertical | |
| 412.471000 | -64.80 | -13.00 | 51.80 | Vertical | |
| 1674.450000 | -54.18 | -13.00 | 41.18 | Vertical | |
| 3864.150000 | -57.57 | -13.00 | 44.57 | Vertical | |
| 6192.700000 | -54.67 | -13.00 | 41.67 | Vertical | |
| 60.118500 | -62.66 | -13.00 | 49.66 | Horizontal | |
| 187.528000 | -61.36 | -13.00 | 48.36 | Horizontal | |
| 412.471000 | -63.01 | -13.00 | 50.01 | Horizontal | |
| 1673.025000 | -54.68 | -13.00 | 41.68 | Horizontal | |
| 3255.500000 | -57.30 | -13.00 | 44.30 | Horizontal | |
| 4713.950000 | -55.92 | -13.00 | 42.92 | Horizontal | |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization | |
|-----------------|-------------|------------------|-------------|--------------|--|
| 59.973000 | -64.01 | -13.00 | 51.01 | Vertical | |
| 187.479500 | -63.24 | -13.00 | 50.24 | Vertical | |
| 412.471000 | -64.50 | -13.00 | 51.50 | Vertical | |
| 1697.550000 | -52.72 | -13.00 | 39.72 | Vertical | |
| 3767.200000 | -57.28 | -13.00 | 44.28 | Vertical | |
| 5914.100000 | -54.73 | -13.00 | 41.73 | Vertical | |
| 59.730500 | -62.96 | -13.00 | 49.96 | Horizontal | |
| 187.479500 | -61.74 | -13.00 | 48.74 | Horizontal | |
| 412.471000 | -64.04 | -13.00 | 51.04 | Horizontal | |
| 1697.625000 | -51.65 | -13.00 | 38.65 | Horizontal | |
| 3863.800000 | -57.71 | -13.00 | 44.71 | Horizontal | |
| 7888.450000 | -52.18 | -13.00 | 39.18 | Horizontal | |

NOTE:

1) All modes were tested, but the data presented above is the worst case.the disturbance above 12.75GHz 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.

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Report No.: SZEM180500457101

Page: 60 of 62

8. Frequency Stability

8.1. Frequency Error Vs Voltage

| | | | Voltage | | | | |
|-------------|---------|------------------|---------------------|-------------------|-----------------|----------------|---------|
| BAND | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850/TM1 | 128 | VL | TN | 11.85 | 0.014376 | 2.5 | PASS |
| GSM850/TM1 | 128 | VN | TN | 15.56 | 0.018881 | 2.5 | PASS |
| GSM850/TM1 | 128 | VH | TN | 15.11 | 0.018333 | 2.5 | PASS |
| GSM850/TM1 | 190 | VL | TN | 15.63 | 0.018678 | 2.5 | PASS |
| GSM850/TM1 | 190 | VN | TN | 18.44 | 0.022036 | 2.5 | PASS |
| GSM850/TM1 | 190 | VH | TN | 18.37 | 0.021959 | 2.5 | PASS |
| GSM850/TM1 | 251 | VL | TN | 12.01 | 0.014150 | 2.5 | PASS |
| GSM850/TM1 | 251 | VN | TN | 12.82 | 0.015101 | 2.5 | PASS |
| GSM850/TM1 | 251 | VH | TN | 14.69 | 0.017307 | 2.5 | PASS |
| GSM1900/TM1 | 512 | VL | TN | 26.70 | 0.014431 | 2.5 | PASS |
| GSM1900/TM1 | 512 | VN | TN | 34.13 | 0.018445 | 2.5 | PASS |
| GSM1900/TM1 | 512 | VH | TN | 26.51 | 0.014326 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VL | TN | 25.44 | 0.013533 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | TN | 27.80 | 0.014786 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VH | TN | 26.02 | 0.013842 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VL | TN | 26.31 | 0.013778 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | TN | 26.47 | 0.013862 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VH | TN | 27.28 | 0.014285 | 2.5 | PASS |



Report No.: SZEM180500457101

Page: 61 of 62

8.2. Frequency Error Vs Temperature

| GSM850/TM1 128 VN -30 16.11 0.019547 2.5 PASS GSM850/TM1 128 VN -20 16.76 0.020330 2.5 PASS GSM850/TM1 128 VN -10 14.46 0.017549 2.5 PASS GSM850/TM1 128 VN -10 14.46 0.017549 2.5 PASS GSM850/TM1 128 VN -0 14.04 0.017040 2.5 PASS GSM850/TM1 128 VN -0 14.04 0.017040 2.5 PASS GSM850/TM1 128 VN -0 13.04 0.015826 2.5 PASS GSM850/TM1 128 VN -20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN -20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN -30 15.98 0.019390 2.5 PASS GSM850/TM1 128 VN -40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN -50 11.46 0.013906 2.5 PASS GSM850/TM1 128 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN -0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN -0 12.88 0.024969 2.5 PASS GSM850/TM1 190 VN -0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN -0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN -0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN -0 12.89 0.024969 2.5 PASS GSM850/TM1 190 VN -0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN -0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN -0 10.010404 2.5 PASS GSM850/TM1 251 VN -0 10.010404 2.5 PASS GSM1900/TM1 512 VN -0 10.010404 2.5 PASS GSM1900/TM1 512 VN -0 20.015705 | | | | Temperatu | ire | | | |
|--|-------------|---------|----|-----------|-------|----------|-----|---------|
| GSM850/TM1 128 VN -20 16.76 0.020330 2.5 PASS GSM850/TM1 128 VN -10 14.46 0.017549 2.5 PASS GSM850/TM1 128 VN 0 14.04 0.017040 2.5 PASS GSM850/TM1 128 VN 10 13.04 0.015826 2.5 PASS GSM850/TM1 128 VN 20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN 20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN 30 15.98 0.019390 2.5 PASS GSM850/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 251 VN 30 13.66 0.016090 2.5 PASS GSM850/TM1 251 VN 30 13.66 0.016090 2.5 PASS GSM850/TM1 251 VN 10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN 30 16.24 0.019133 2.5 PASS GSM850/TM1 251 VN 30 20 14.46 0.017041 2.5 PASS GSM850/TM1 251 VN 30 20 27.18 0.014885 2.5 PASS GSM1900/TM1 512 VN 30 22.57 4 0.014885 2.5 PASS GSM1900/T | BAND | Channel | | | | | - | Verdict |
| GSM850/TM1 | GSM850/TM1 | 128 | VN | -30 | 16.11 | 0.019547 | 2.5 | PASS |
| GSM850/TM1 128 VN 0 14.04 0.017040 2.5 PASS GSM850/TM1 128 VN 10 13.04 0.015826 2.5 PASS GSM850/TM1 128 VN 20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN 30 15.98 0.019390 2.5 PASS GSM850/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 13.66 0.016090 2.5 PASS GSM850/TM1 251 VN -20 12.11 0.014264 2.5 PASS GSM850/TM1 251 VN -10 10.69 0.012590 2.5 PASS GSM850/TM1 251 VN -10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN -10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN -20 11.446 0.017041 2.5 PASS GSM850/TM1 251 VN -20 11.446 0.017041 2.5 PASS GSM850/TM1 251 VN -20 11.466 0.017041 2.5 PASS GSM1900/TM1 512 VN -20 28.31 0.015304 2.5 PASS GSM1900/TM1 512 VN -20 28.31 0.015304 2.5 PASS GSM1900/TM1 512 VN -20 28.31 0.015304 2.5 PASS GSM1900/TM1 512 VN -20 20.057 0.0 | GSM850/TM1 | 128 | VN | -20 | 16.76 | 0.020330 | 2.5 | PASS |
| GSM850/TM1 128 VN 20 13.33 0.016178 2.5 PASS GSM850/TM1 128 VN 30 15.98 0.019390 2.5 PASS GSM850/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 0 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 13.66 0.016090 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.023425 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.024969 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.024969 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.024969 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.025425 2.5 PASS GSM850/TM1 190 VN 10 10.69 0.012590 2.5 PASS GSM850/TM1 251 VN 10 10.69 0.012590 2.5 PASS GSM850/TM1 251 VN 10 10.69 0.012590 2.5 PASS GSM850/TM1 251 VN 10 10.59 0.012476 2.5 PASS GSM1900/TM1 512 VN 10 20 14.46 0.017041 2.5 PASS GSM1900/TM1 512 VN 10 20 26.31 0.015304 2.5 PASS GSM1900/TM1 512 VN 10 20 26.31 0.015304 2.5 PASS GSM1900/TM1 512 VN 10 20 26.31 0.015304 2.5 PASS GSM1900/TM1 512 VN 10 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 10 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 20 30.57 0.016525 2 | GSM850/TM1 | 128 | VN | -10 | 14.46 | 0.017549 | 2.5 | PASS |
| GSM650/TM1 128 | GSM850/TM1 | 128 | VN | 0 | 14.04 | 0.017040 | 2.5 | PASS |
| GSM650/TM1 128 VN 30 15.98 0.019390 2.5 PASS GSM650/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM650/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM650/TM1 190 VN -30 16.62 0.020106 2.5 PASS GSM650/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM650/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM650/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM650/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM650/TM1 190 VN 10 20.89 0.024969 2.5 PASS GSM650/TM1 190 VN 20 22.86 0.028519 2.5 PASS GSM650/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM650/TM1 190 VN 30 13.66 0.016090 2.5 PASS GSM650/TM1 251 VN -30 13.66 0.016090 2.5 PASS GSM650/TM1 251 VN -20 12.11 0.014264 2.5 PASS GSM650/TM1 251 VN -10 10.69 0.012590 2.5 PASS GSM650/TM1 251 VN 0 13.08 0.015405 2.5 PASS GSM650/TM1 251 VN 0 10.69 0.012590 2.5 PASS GSM650/TM1 251 VN 10 10.59 0.012476 2.5 PASS GSM650/TM1 251 VN 20 14.46 0.017041 2.5 PASS GSM650/TM1 251 VN 30 16.24 0.019133 2.5 PASS GSM650/TM1 251 VN 30 27.18 0.014963 2.5 PASS GSM650/TM1 251 VN 30 27.18 0.014963 2.5 PASS GSM1900/TM1 512 VN 30 27.18 0.014963 2.5 PASS GSM1900/TM1 512 VN 30 27.18 0.014965 2.5 PASS GSM1900/TM1 512 VN 30 27.54 0.015199 2.5 PASS GSM1900/TM1 512 VN 30 28.12 0.015199 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM850/TM1 | 128 | VN | 10 | 13.04 | 0.015826 | 2.5 | PASS |
| GSM850/TM1 128 VN 40 7.01 0.008500 2.5 PASS GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 50 19.60 0.023425 2.5 PASS GSM850/TM1 251 VN -30 13.66 0.016090 2.5 PASS GSM850/TM1 251 VN -20 12.11 0.014264 2.5 PASS GSM850/TM1 251 VN -10 10.69 0.012590 2.5 PASS GSM850/TM1 251 VN 0 13.08 0.015405 2.5 PASS GSM850/TM1 251 VN 0 13.08 0.015405 2.5 PASS GSM850/TM1 251 VN 10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN 0 13.08 0.015405 2.5 PASS GSM850/TM1 251 VN 0 10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN 0 10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN 10 10.59 0.012476 2.5 PASS GSM850/TM1 251 VN 20 14.46 0.017041 2.5 PASS GSM850/TM1 251 VN 30 16.24 0.019133 2.5 PASS GSM850/TM1 251 VN 30 27.18 0.014093 2.5 PASS GSM1900/TM1 512 VN 30 27.18 0.014093 2.5 PASS GSM1900/TM1 512 VN 30 27.18 0.014093 2.5 PASS GSM1900/TM1 512 VN 30 27.54 0.015705 2.5 PASS GSM1900/TM1 512 VN 30 27.54 0.015705 2.5 PASS GSM1900/TM1 512 VN 30 28.12 0.015199 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM850/TM1 | 128 | VN | 20 | 13.33 | 0.016178 | 2.5 | PASS |
| GSM850/TM1 128 VN 50 11.46 0.013906 2.5 PASS GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 50 19.60 0.023425 2.5 PASS GSM850/TM1 | GSM850/TM1 | 128 | VN | 30 | 15.98 | 0.019390 | 2.5 | PASS |
| GSM850/TM1 190 VN -30 16.82 0.020106 2.5 PASS GSM850/TM1 190 VN -20 13.92 0.016633 2.5 PASS GSM850/TM1 190 VN -10 15.01 0.017945 2.5 PASS GSM850/TM1 190 VN 0 16.56 0.019798 2.5 PASS GSM850/TM1 190 VN 10 20.89 0.024969 2.5 PASS GSM850/TM1 190 VN 20 23.86 0.028519 2.5 PASS GSM850/TM1 190 VN 30 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 40 23.25 0.027786 2.5 PASS GSM850/TM1 190 VN 50 19.60 0.023425 2.5 PASS GSM850/TM1 251 VN -30 13.66 0.016090 2.5 PASS GSM850/TM1 | GSM850/TM1 | 128 | VN | 40 | 7.01 | 0.008500 | 2.5 | PASS |
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| GSM850/TM1 251 VN 40 12.56 0.014796 2.5 PASS GSM850/TM1 251 VN 50 11.91 0.014036 2.5 PASS GSM1900/TM1 512 VN -30 27.18 0.014693 2.5 PASS GSM1900/TM1 512 VN -20 28.31 0.015304 2.5 PASS GSM1900/TM1 512 VN -10 29.06 0.015705 2.5 PASS GSM1900/TM1 512 VN 0 27.54 0.014885 2.5 PASS GSM1900/TM1 512 VN 10 28.06 0.015164 2.5 PASS GSM1900/TM1 512 VN 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 30 28.12 0.015199 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM850/TM1 | 251 | VN | 20 | 14.46 | 0.017041 | 2.5 | PASS |
| GSM850/TM1 251 VN 50 11.91 0.014036 2.5 PASS GSM1900/TM1 512 VN -30 27.18 0.014693 2.5 PASS GSM1900/TM1 512 VN -20 28.31 0.015304 2.5 PASS GSM1900/TM1 512 VN -10 29.06 0.015705 2.5 PASS GSM1900/TM1 512 VN 0 27.54 0.014885 2.5 PASS GSM1900/TM1 512 VN 10 28.06 0.015164 2.5 PASS GSM1900/TM1 512 VN 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 30 28.12 0.015199 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM850/TM1 | 251 | VN | 30 | 16.24 | 0.019133 | 2.5 | PASS |
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| GSM1900/TM1 512 VN -10 29.06 0.015705 2.5 PASS GSM1900/TM1 512 VN 0 27.54 0.014885 2.5 PASS GSM1900/TM1 512 VN 10 28.06 0.015164 2.5 PASS GSM1900/TM1 512 VN 20 30.57 0.016525 2.5 PASS GSM1900/TM1 512 VN 30 28.12 0.015199 2.5 PASS GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM1900/TM1 | 512 | VN | -30 | 27.18 | 0.014693 | 2.5 | PASS |
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| GSM1900/TM1 512 VN 40 22.57 0.012197 2.5 PASS | GSM1900/TM1 | 512 | VN | 20 | 30.57 | 0.016525 | 2.5 | PASS |
| | GSM1900/TM1 | 512 | VN | 30 | 28.12 | 0.015199 | 2.5 | PASS |
| GSM1900/TM1 512 V/N 50 21.24 0.011492 2.5 DASS | GSM1900/TM1 | 512 | VN | 40 | 22.57 | 0.012197 | 2.5 | PASS |
| GGW11900/1W1 312 VIV 30 21.24 0.011402 2.5 PASS | GSM1900/TM1 | 512 | VN | 50 | 21.24 | 0.011482 | 2.5 | PASS |

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Report No.: SZEM180500457101

Page: 62 of 62

| GSM1900/TM1 | 661 | VN | -30 | 25.51 | 0.013567 | 2.5 | PASS |
|-------------|-----|----|-----|-------|----------|-----|------|
| GSM1900/TM1 | 661 | VN | -20 | 28.99 | 0.015422 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | -10 | 20.08 | 0.010682 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 0 | 29.67 | 0.015782 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 10 | 44.91 | 0.023888 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 20 | 48.98 | 0.026052 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 30 | 41.46 | 0.022051 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 40 | 51.33 | 0.027306 | 2.5 | PASS |
| GSM1900/TM1 | 661 | VN | 50 | 55.05 | 0.029281 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | -30 | 25.02 | 0.013102 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | -20 | 25.05 | 0.013119 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | -10 | 26.38 | 0.013812 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 0 | 22.83 | 0.011952 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 10 | 28.15 | 0.014741 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 20 | 35.09 | 0.018376 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 30 | 34.03 | 0.017818 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 40 | 34.77 | 0.018207 | 2.5 | PASS |
| GSM1900/TM1 | 810 | VN | 50 | 36.29 | 0.019002 | 2.5 | PASS |

The End