

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)
 LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
 LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)
 LTE Band 12: FCC 47 CFR Part 27.53(g)
 LTE Band 13: FCC 47 CFR Part 27.53
 LTE Band 26: FCC 47 CFR Part 90.691
 LTE Band 2 & LTE Band 25: RSS-133 Issue 6, Section 6.5
 LTE Band 4 & LTE Band 66: RSS-139 Issue 3, Section 6.6
 LTE Band 5: RSS-132 Issue 3, Section 5.5
 LTE Band 12 & LTE Band 13 : RSS-130 Issue 2, Section 4.7

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

RSS-132 Issue 3, Section 5.5, RSS-133 Issue 6, Section 6.6, RSS-139 Issue 3, Section 6.5, RSS-130 Issue 2, Section 4.7:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

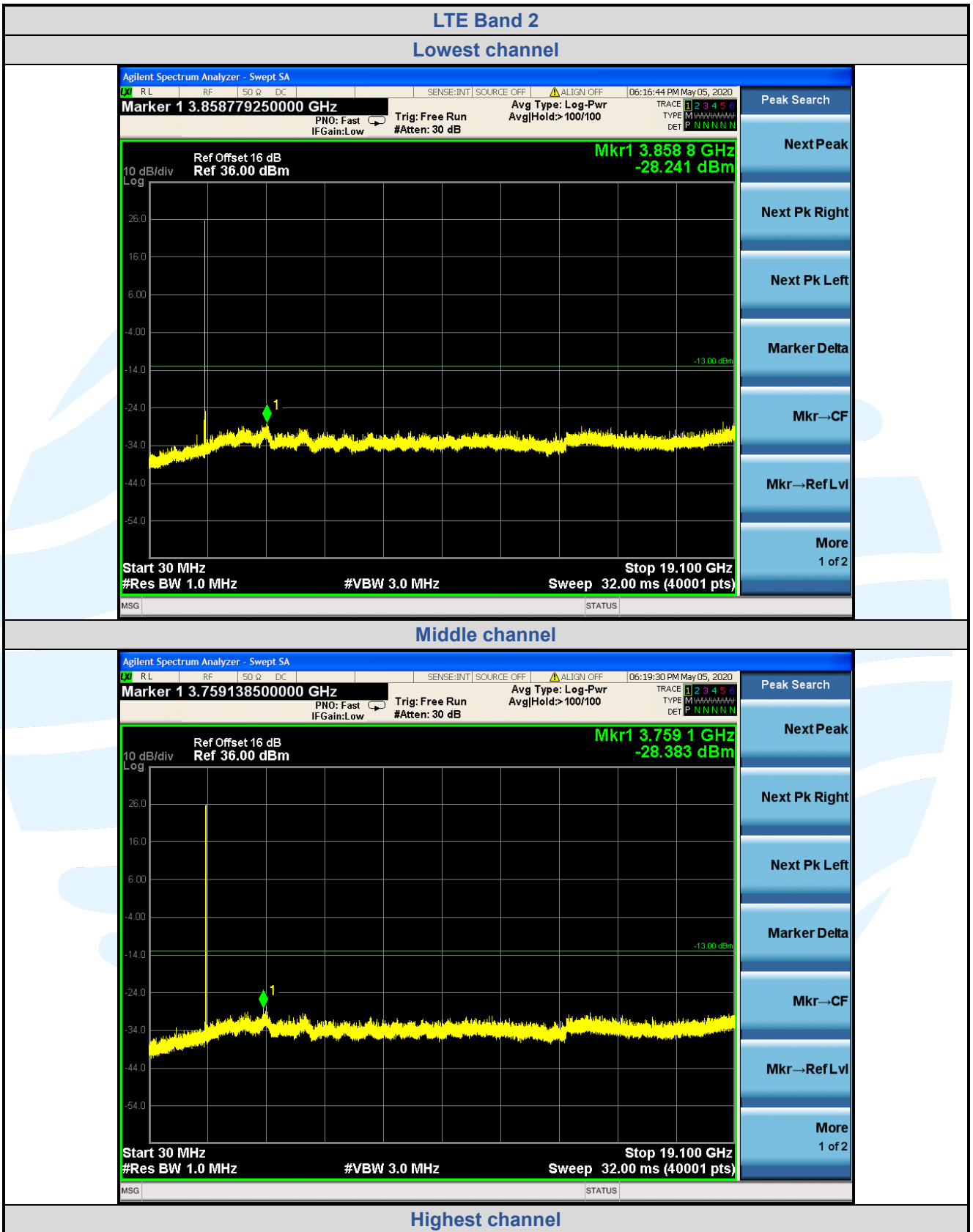
Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

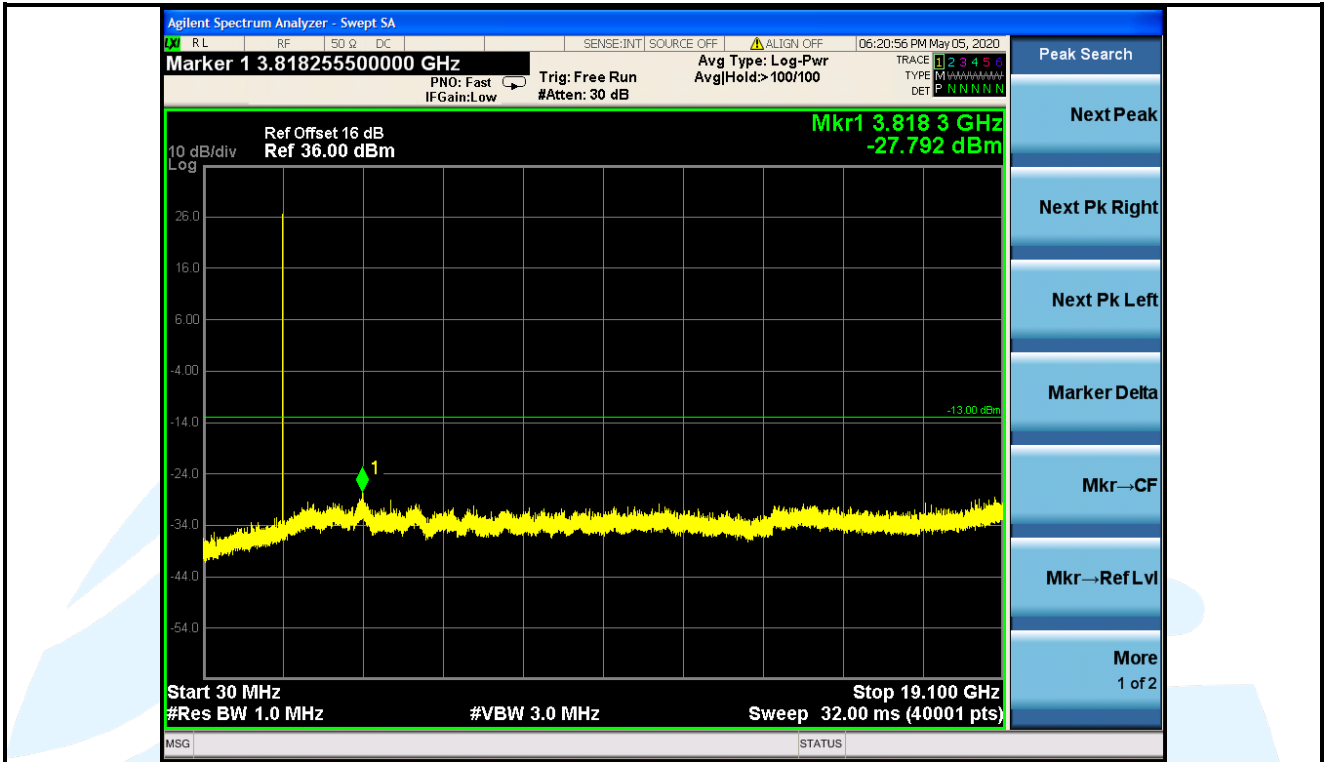
Test Mode: Link mode

Test Results: Pass

5.7.1 LTE Band 2



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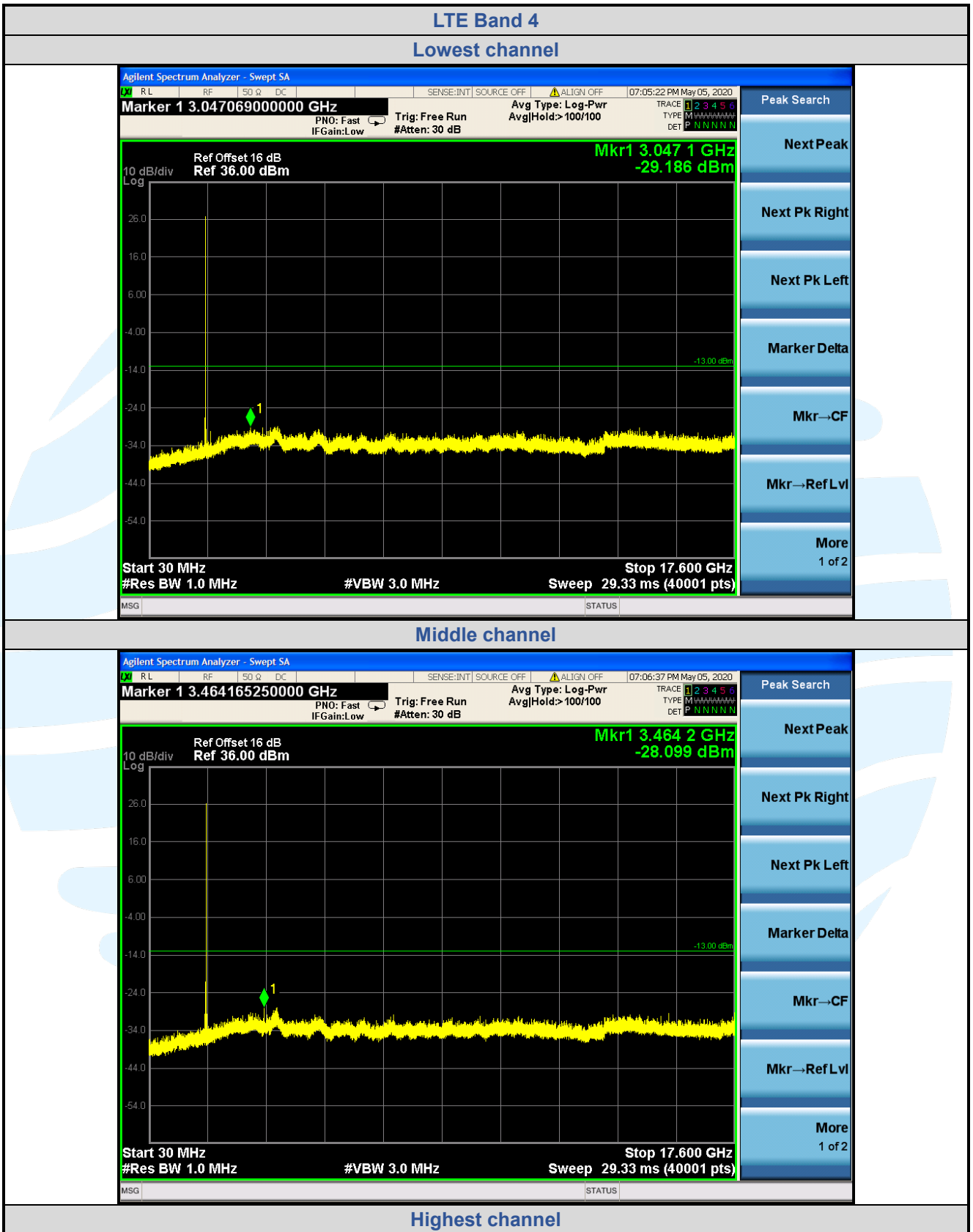
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5.7.2 LTE Band 4



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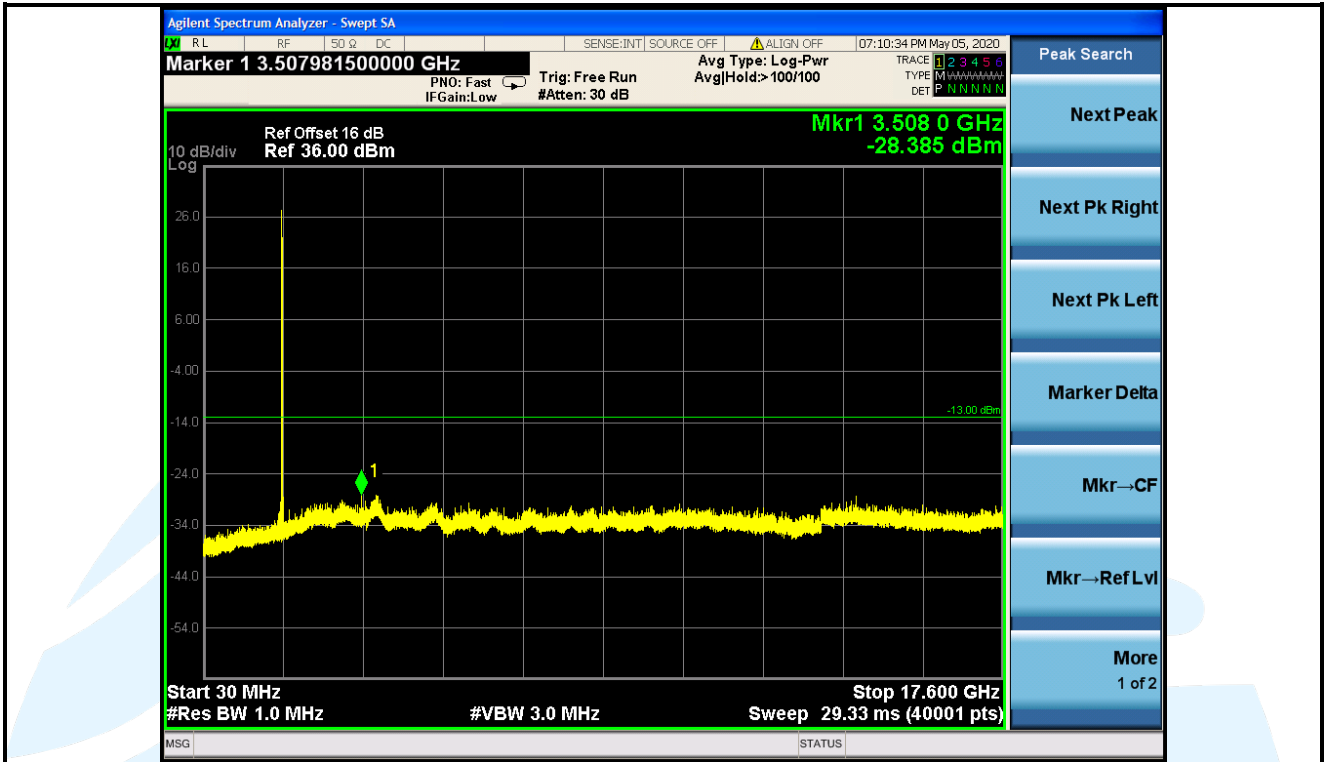
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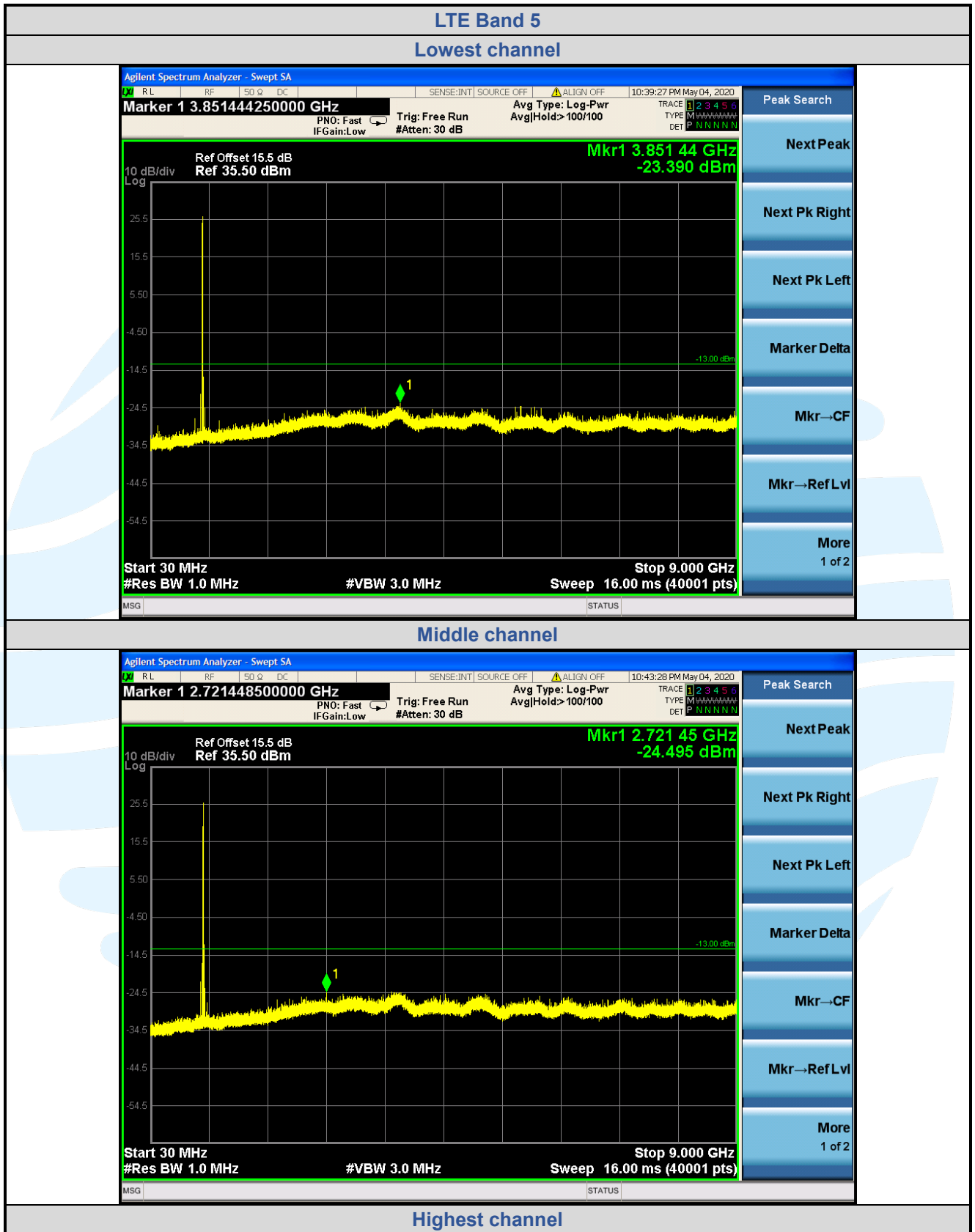
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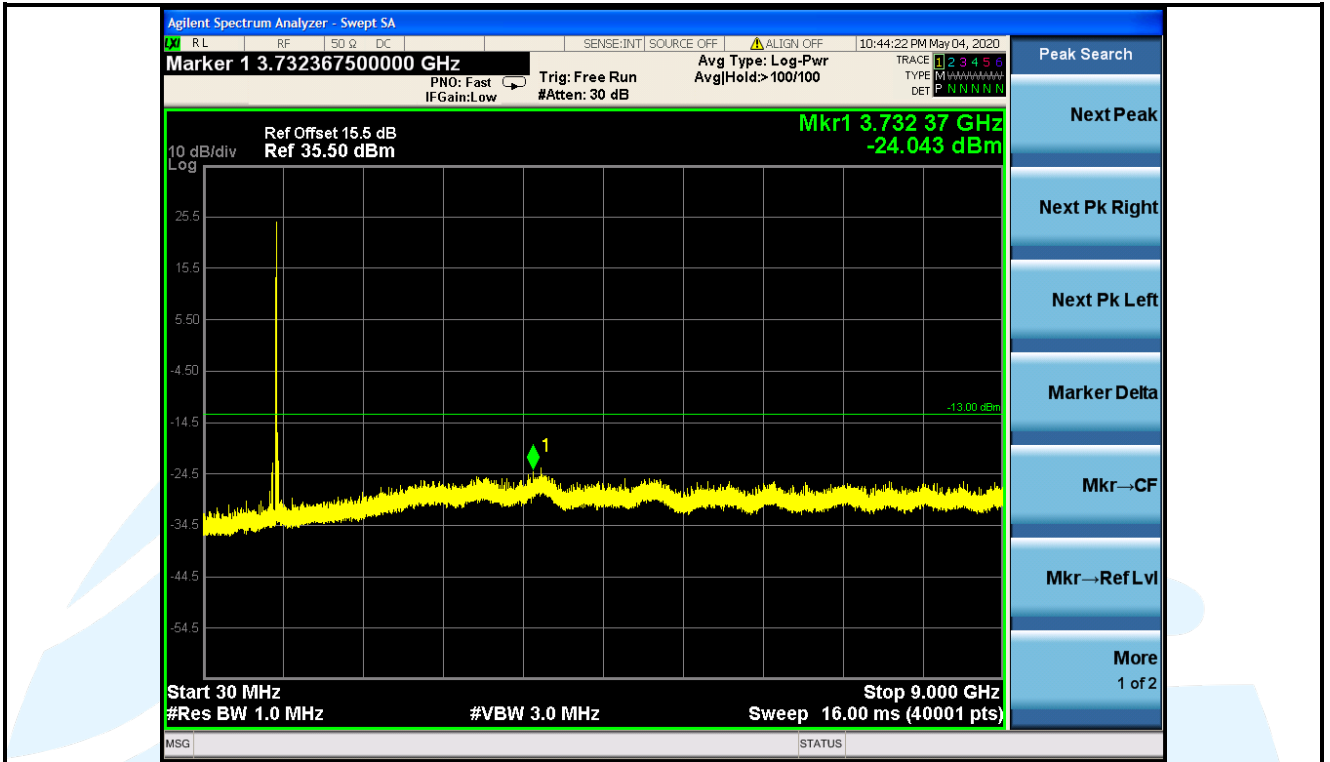
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5.7.3 LTE Band 5





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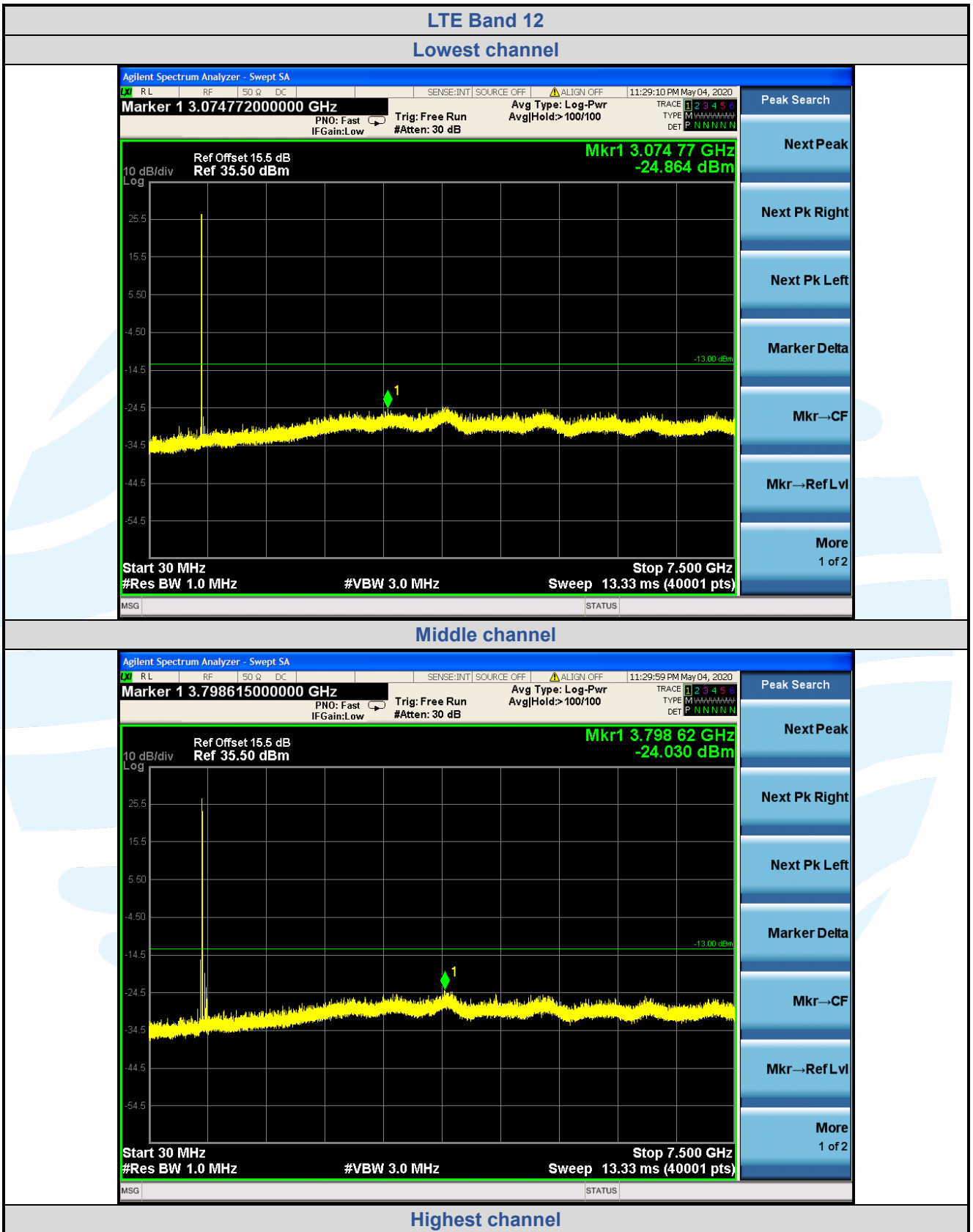
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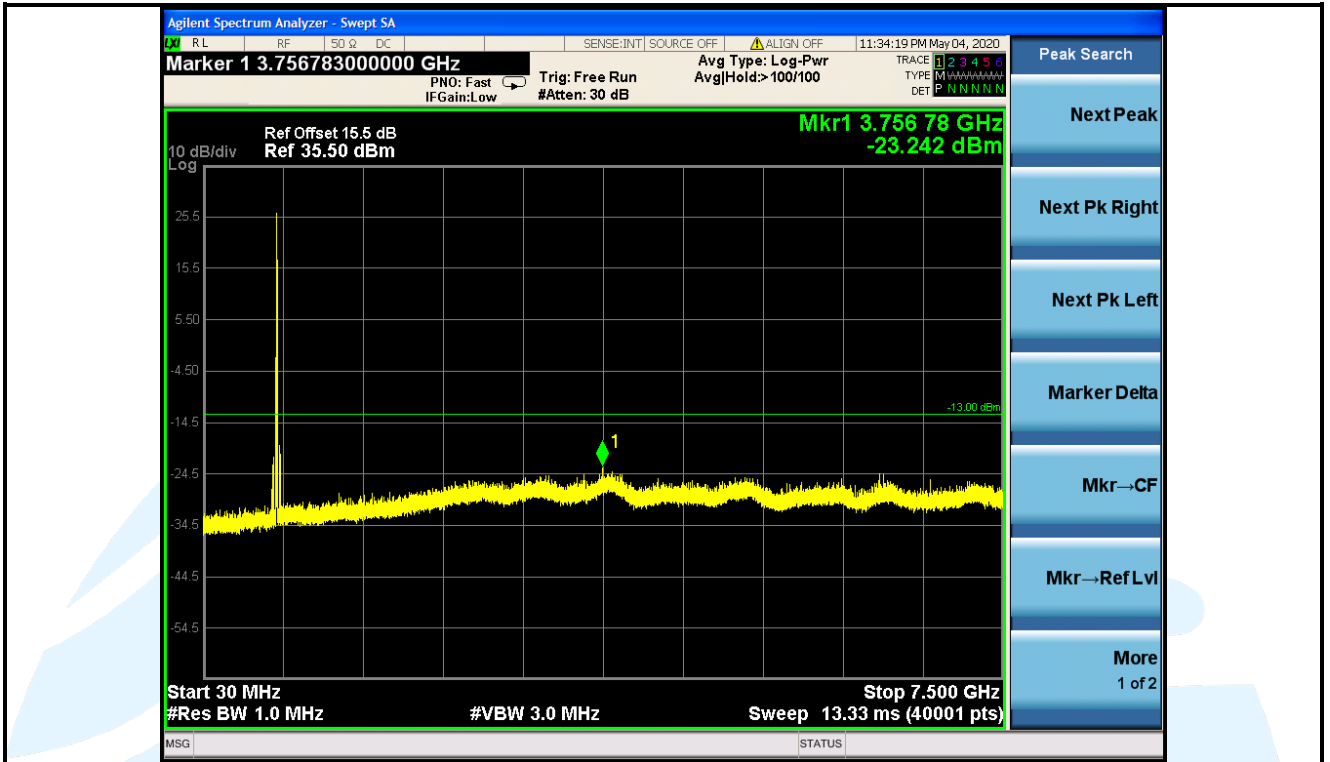
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5.7.4 LTE Band 12





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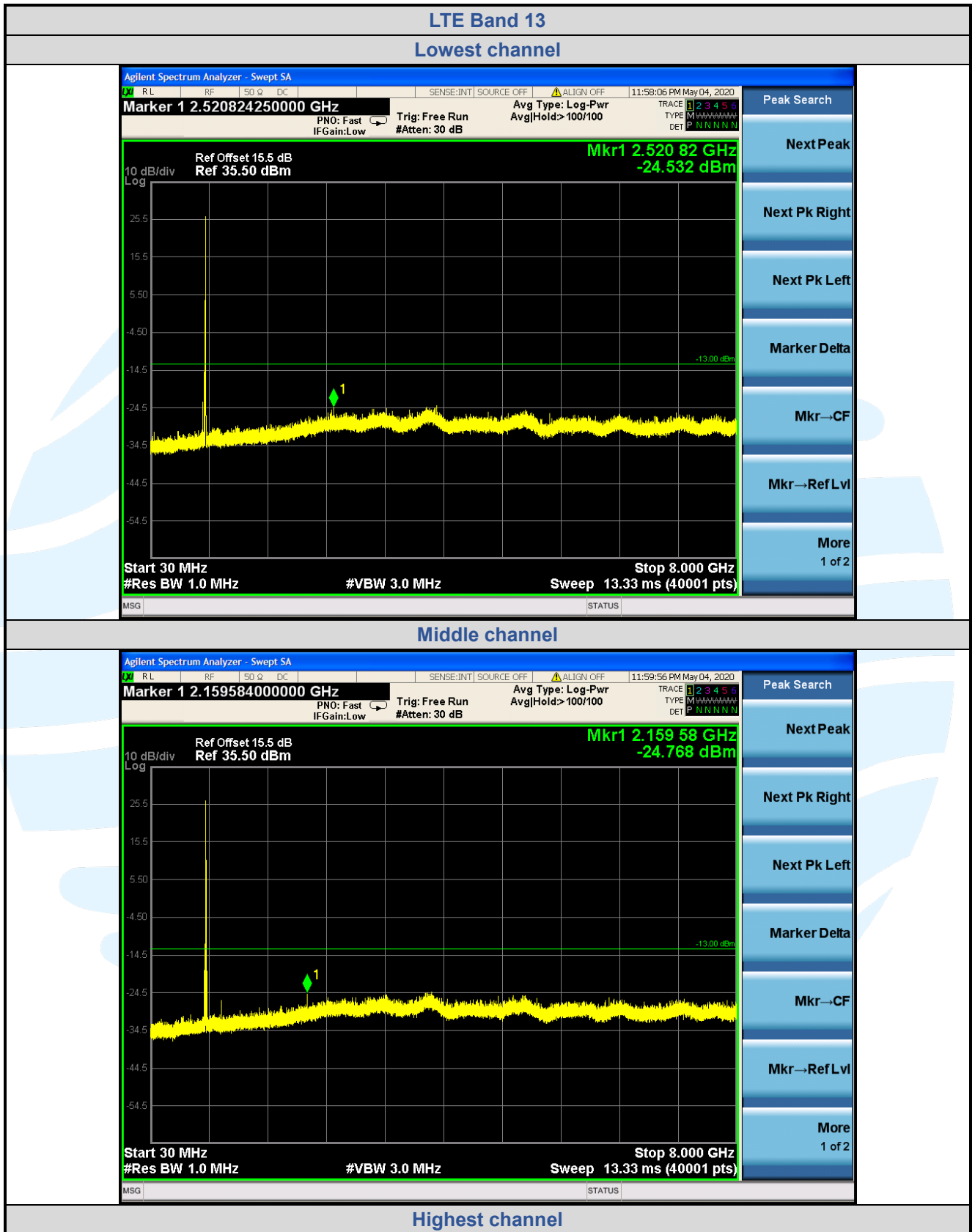
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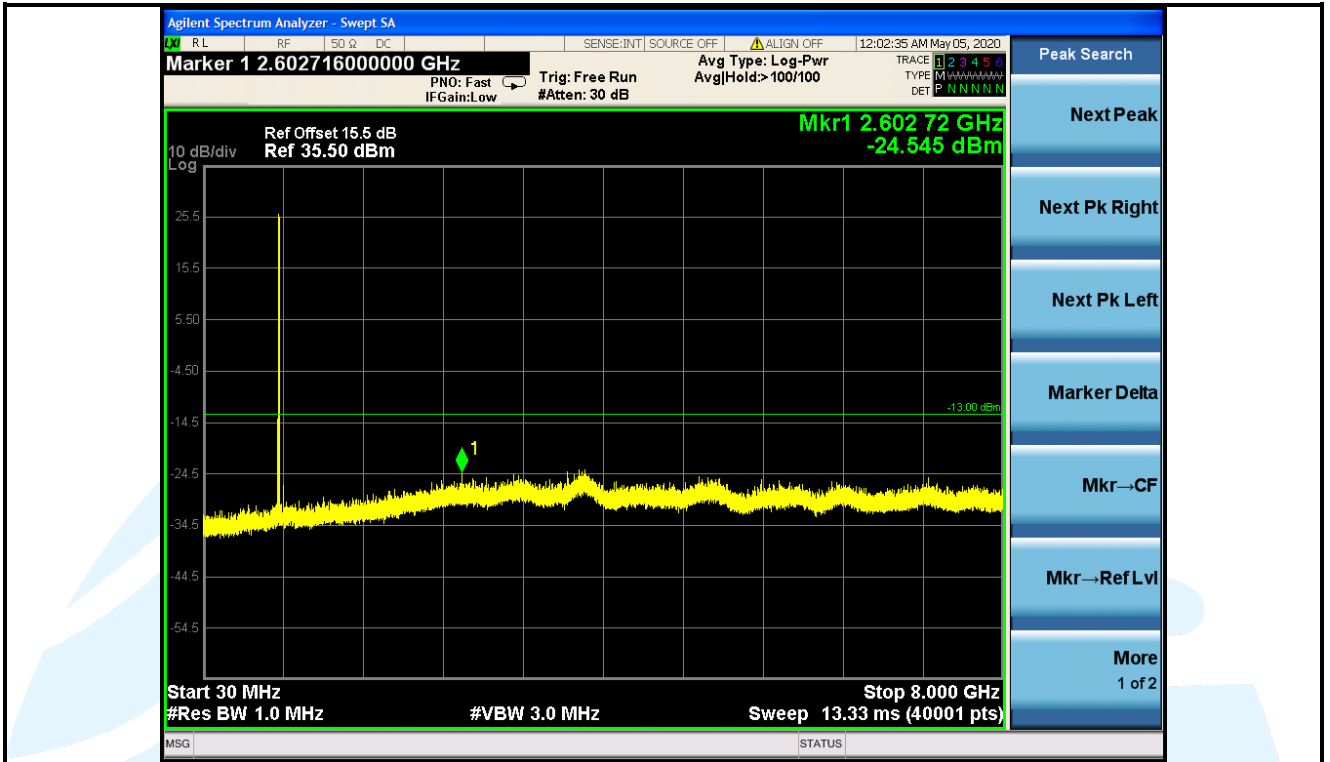
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5.7.5 LTE Band 13

**Highest channel**



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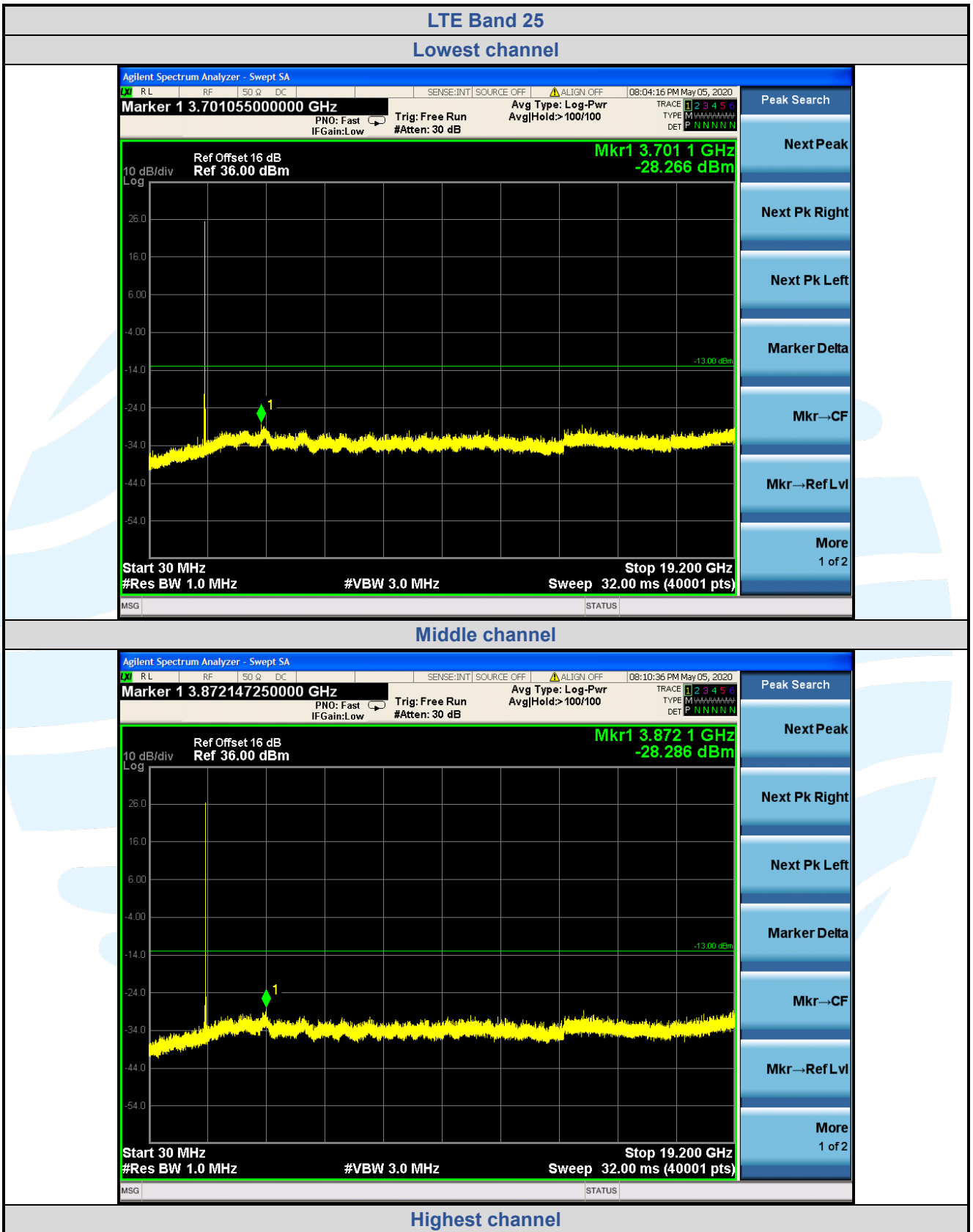
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5.7.6 LTE Band 25



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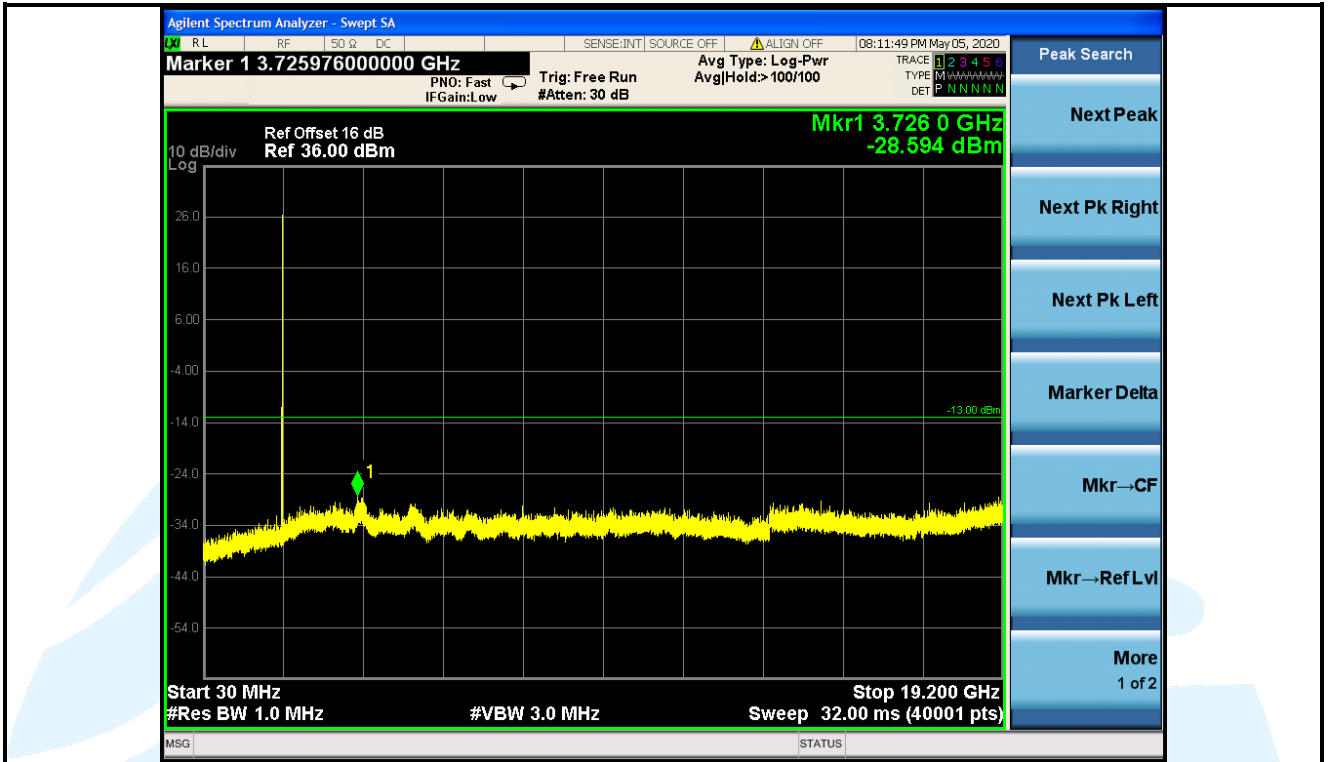
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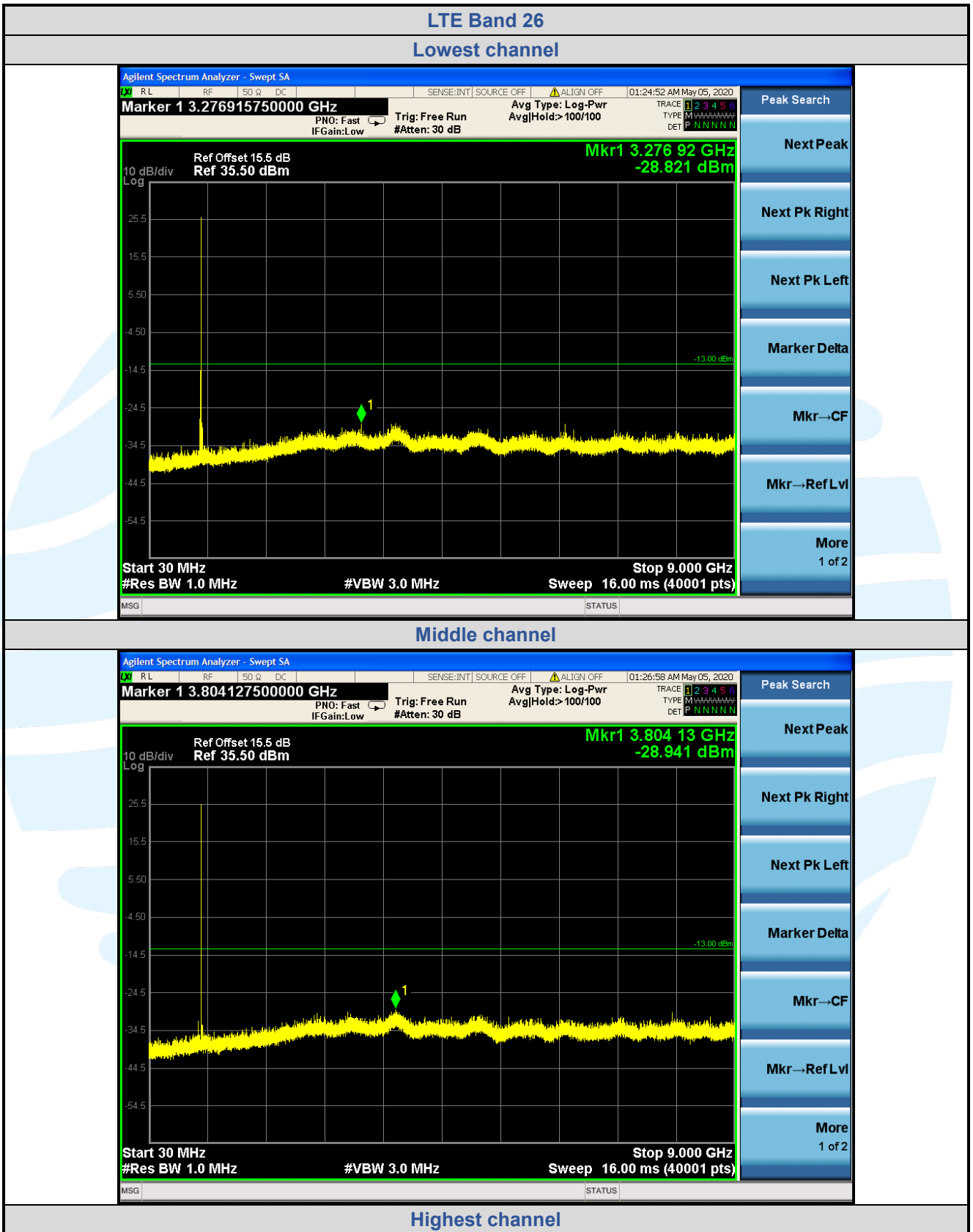
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5.7.7 LTE Band 26



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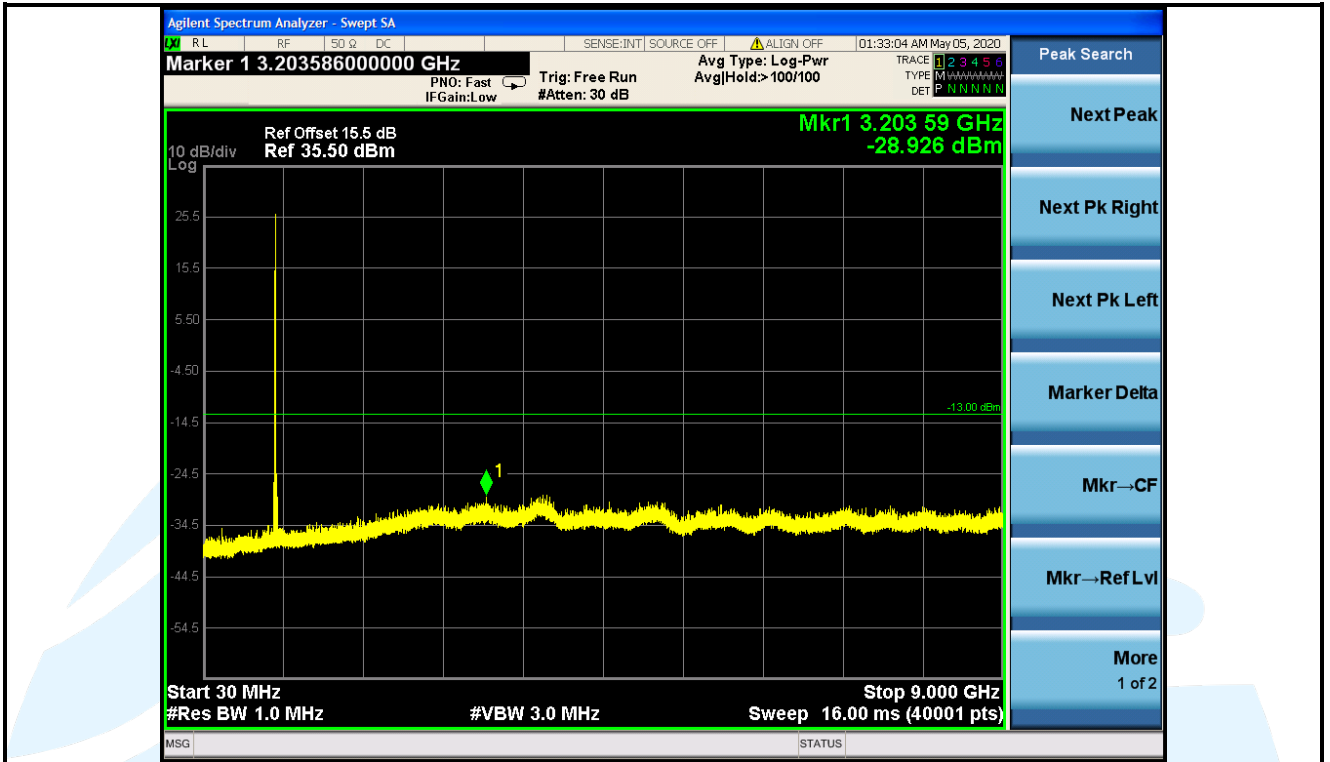
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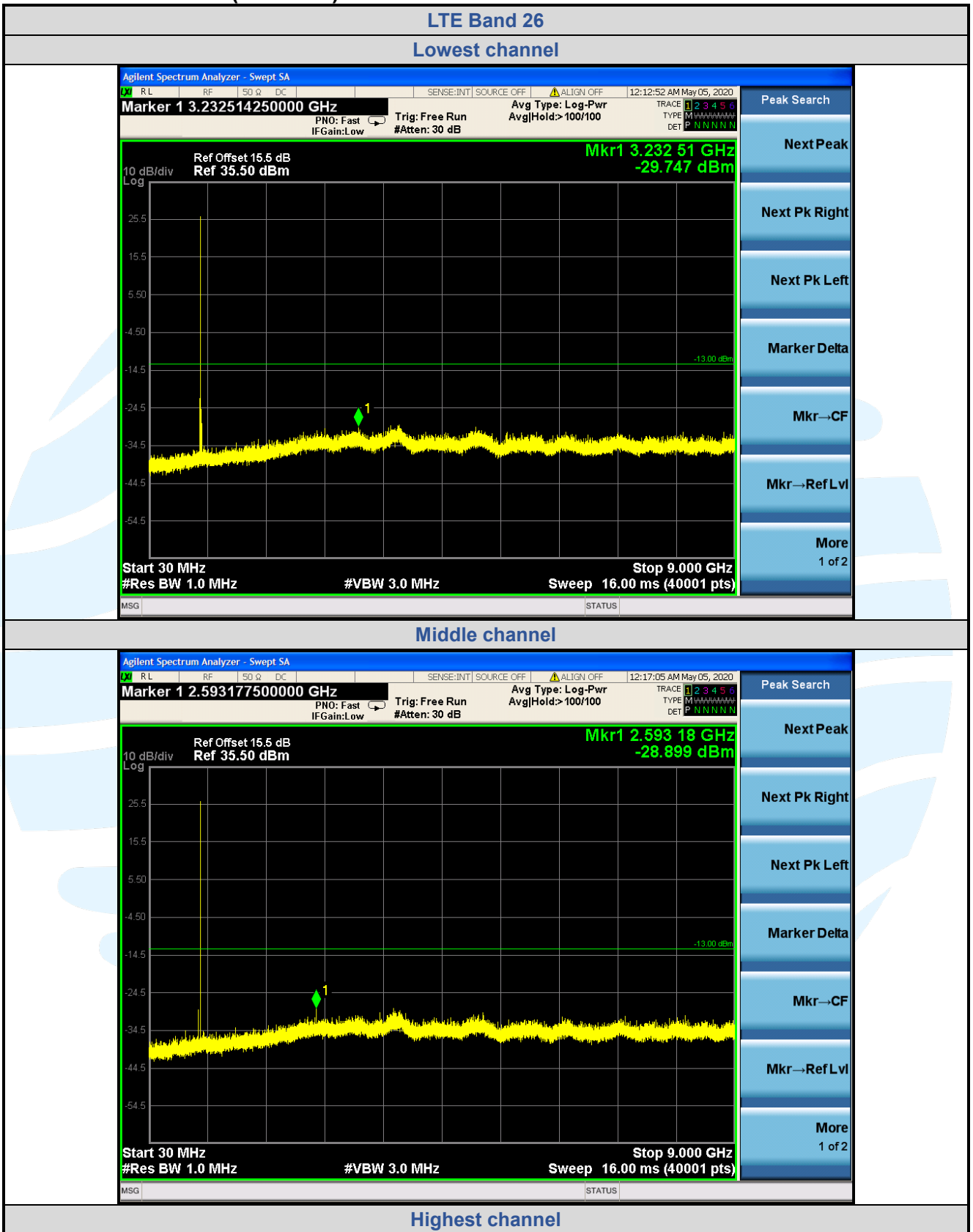
Fax: +86-755-28230886

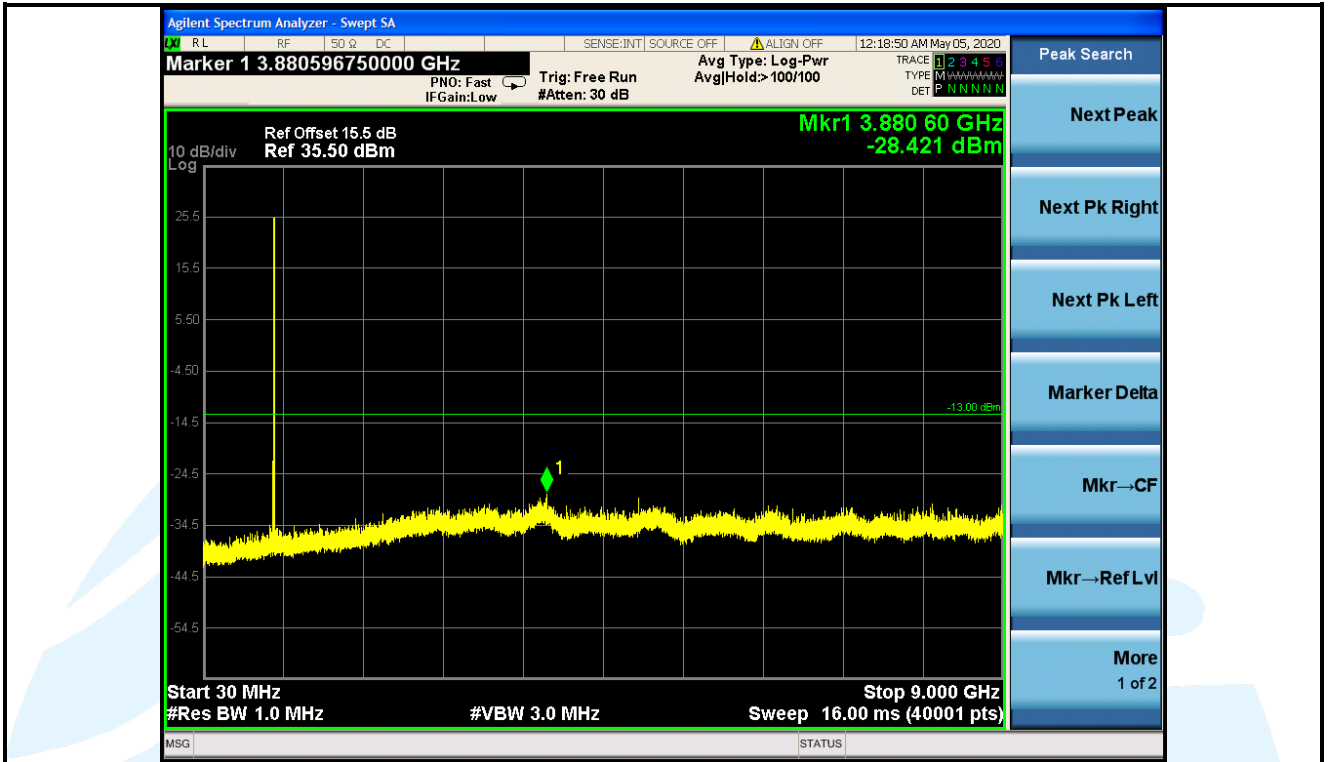
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5.7.8 LTE Band 26 (Part 90S)





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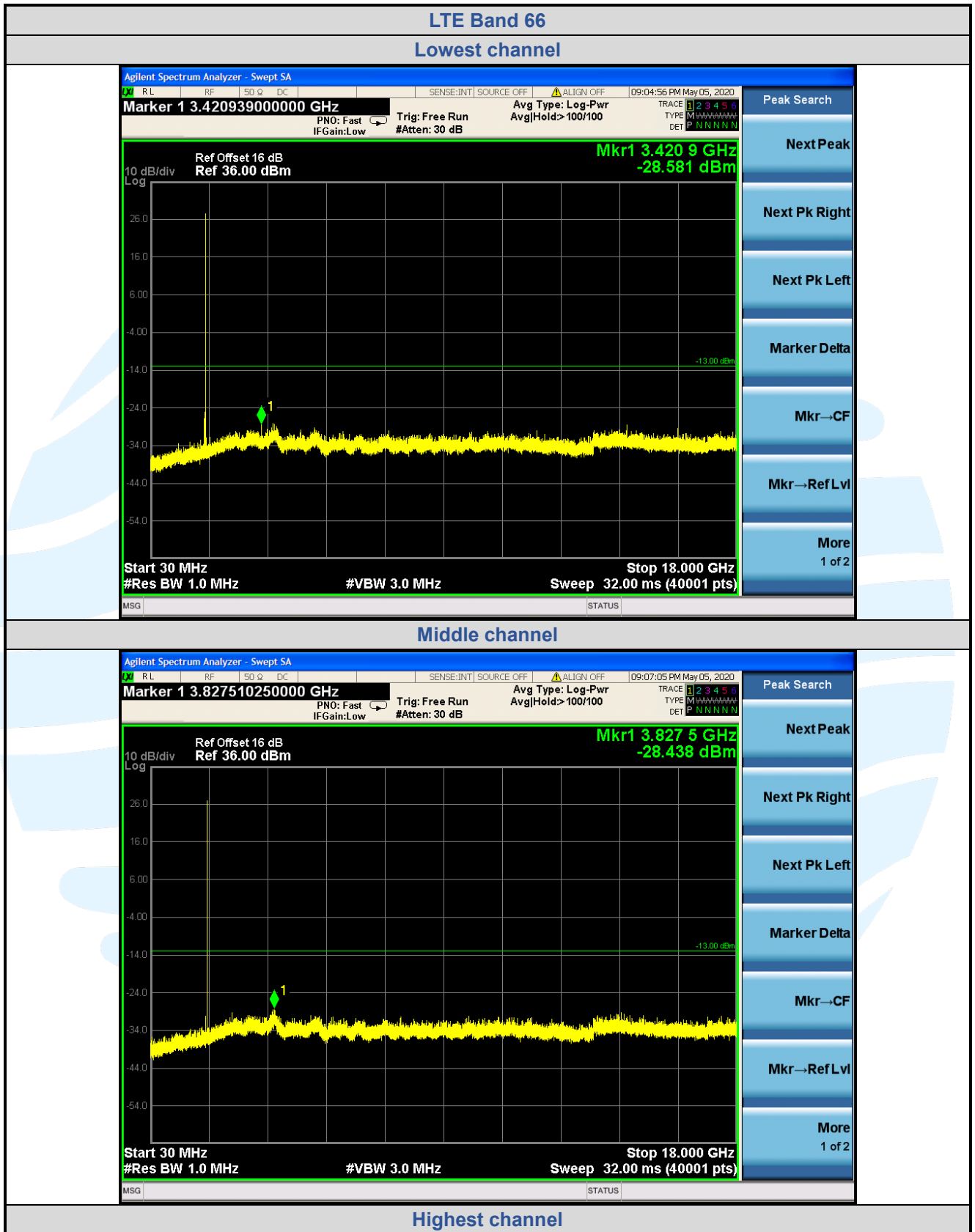
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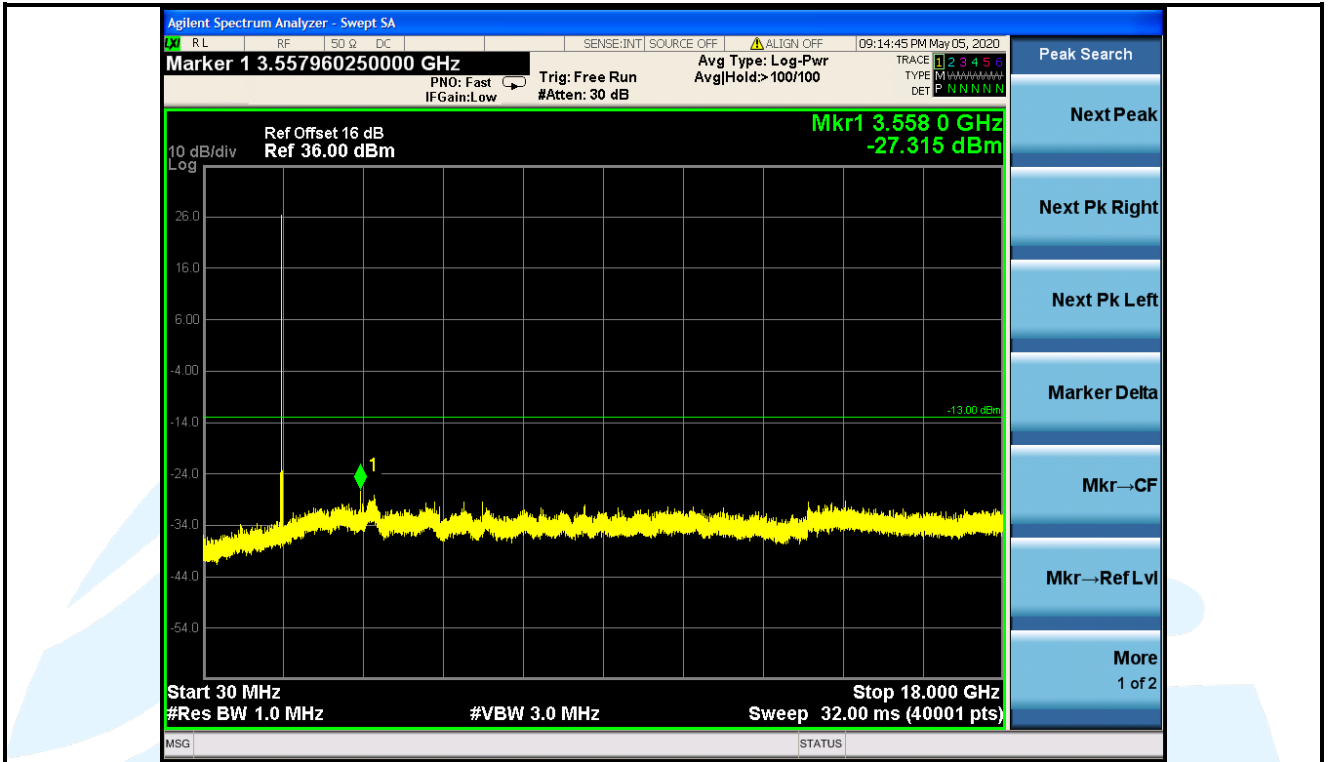
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5.7.9 LTE Band 66



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5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)
 LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
 LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)
 LTE Band 12 : FCC 47 CFR Part 27.53(g)
 LTE Band 13: FCC 47 CFR Part 27.53
 LTE Band 26: FCC 47 CFR Part 90.691
 LTE Band 2 & LTE Band 25: RSS-133 Issue 6, Section 6.5
 LTE Band 4 & LTE Band 66: RSS-139 Issue 3, Section 6.6
 LTE Band 5: RSS-132 Issue 3, Section 5.5
 LTE Band 12 & LTE Band 13: RSS-130 Issue 2, Section 4.7

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Receiver Setup:

| Frequency | Detector | RBW | VBW | Remark |
|------------------|------------|---------|---------|--------|
| 0.009 MHz-30 MHz | Peak | 10 kHz | 30 KHz | Peak |
| 30 MHz-1 GHz | Quasi-peak | 100 kHz | 300 KHz | Peak |
| Above 1 GHz | Peak | 1 MHz | 3 MHz | Peak |

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g), 27.53(c)(2), 90.691:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53:

(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

RSS-132 Issue 3, Section 5.5, RSS-133 Issue 6, Section 6.6, RSS-139 Issue 3, Section 6.5, RSS-130 Issue 2, Section 4.7:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

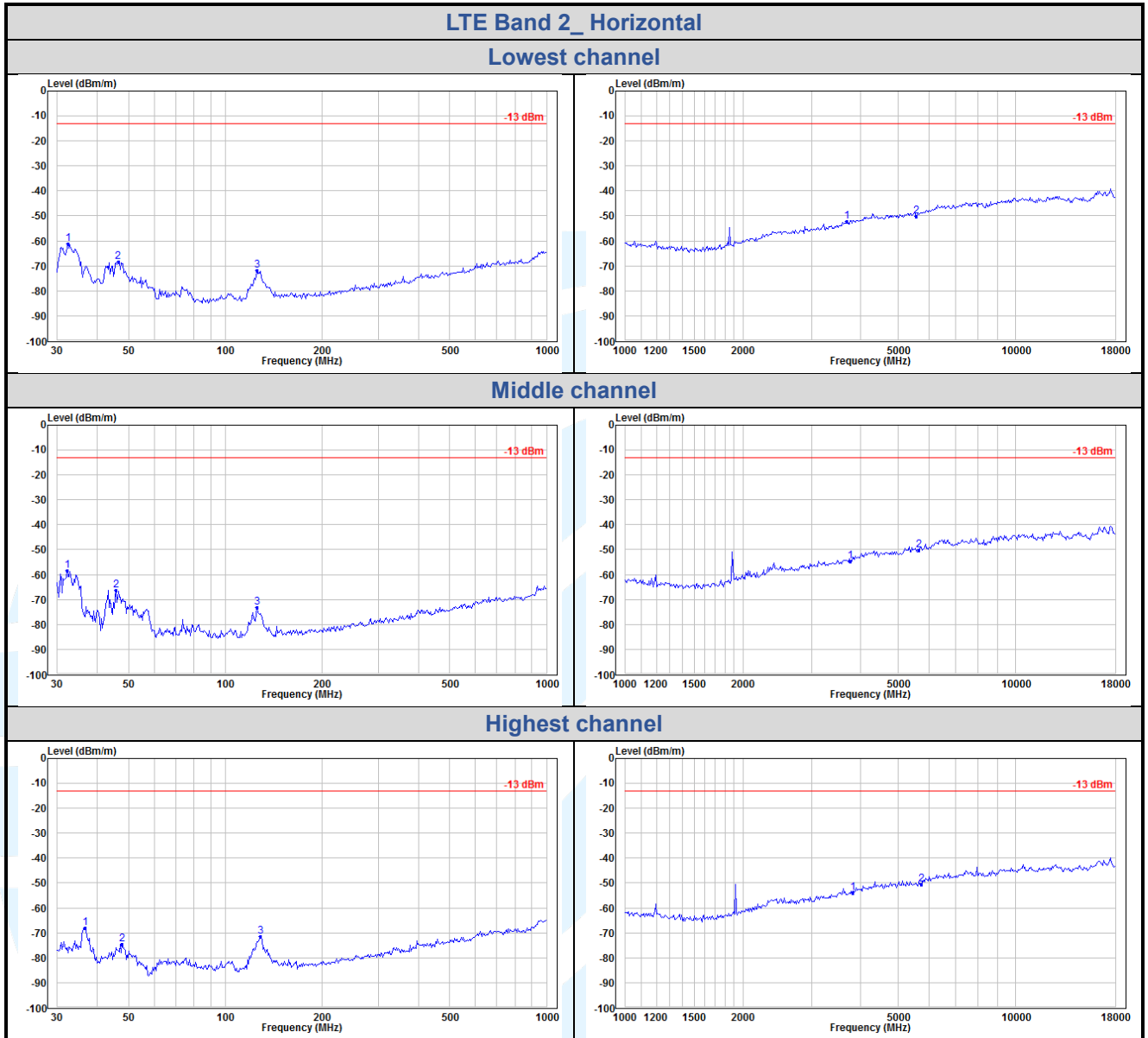
Equipment Used: Refer to section 3 for details.

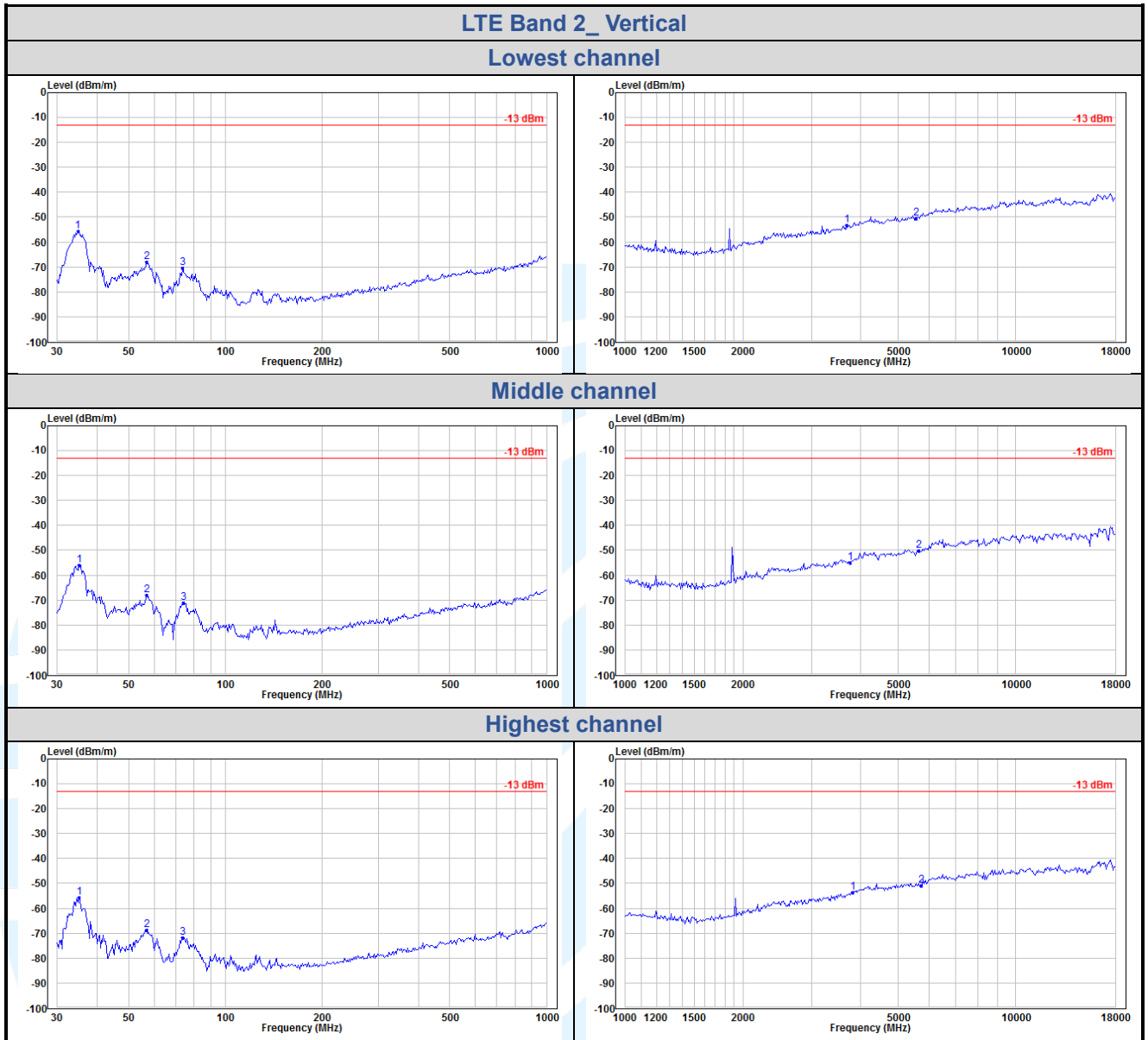
Test Result: Pass

The measurement data as follows:

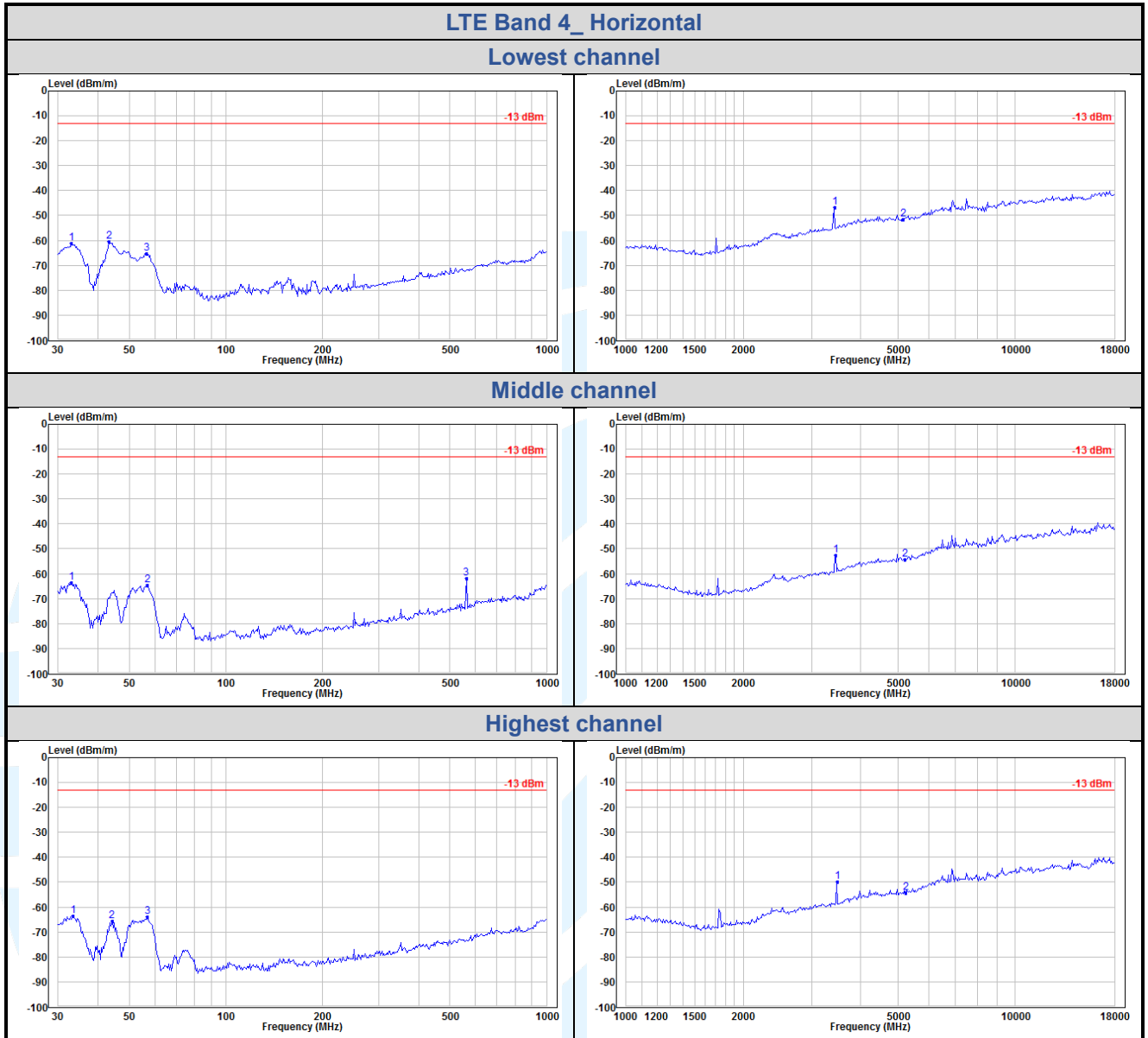
All bands emission had tested and emission margin more than 20dB

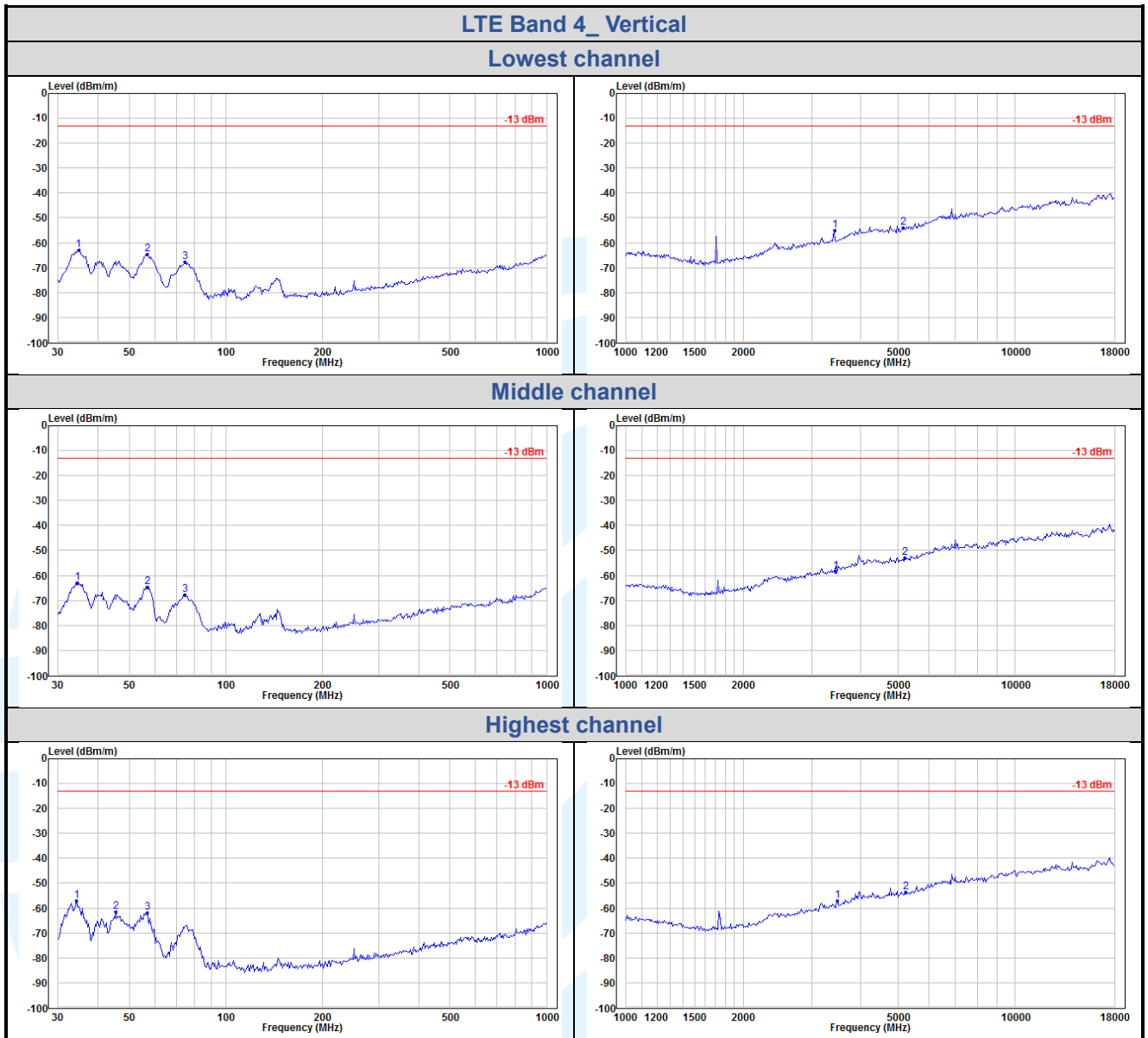
5.8.1 LTE Band 2



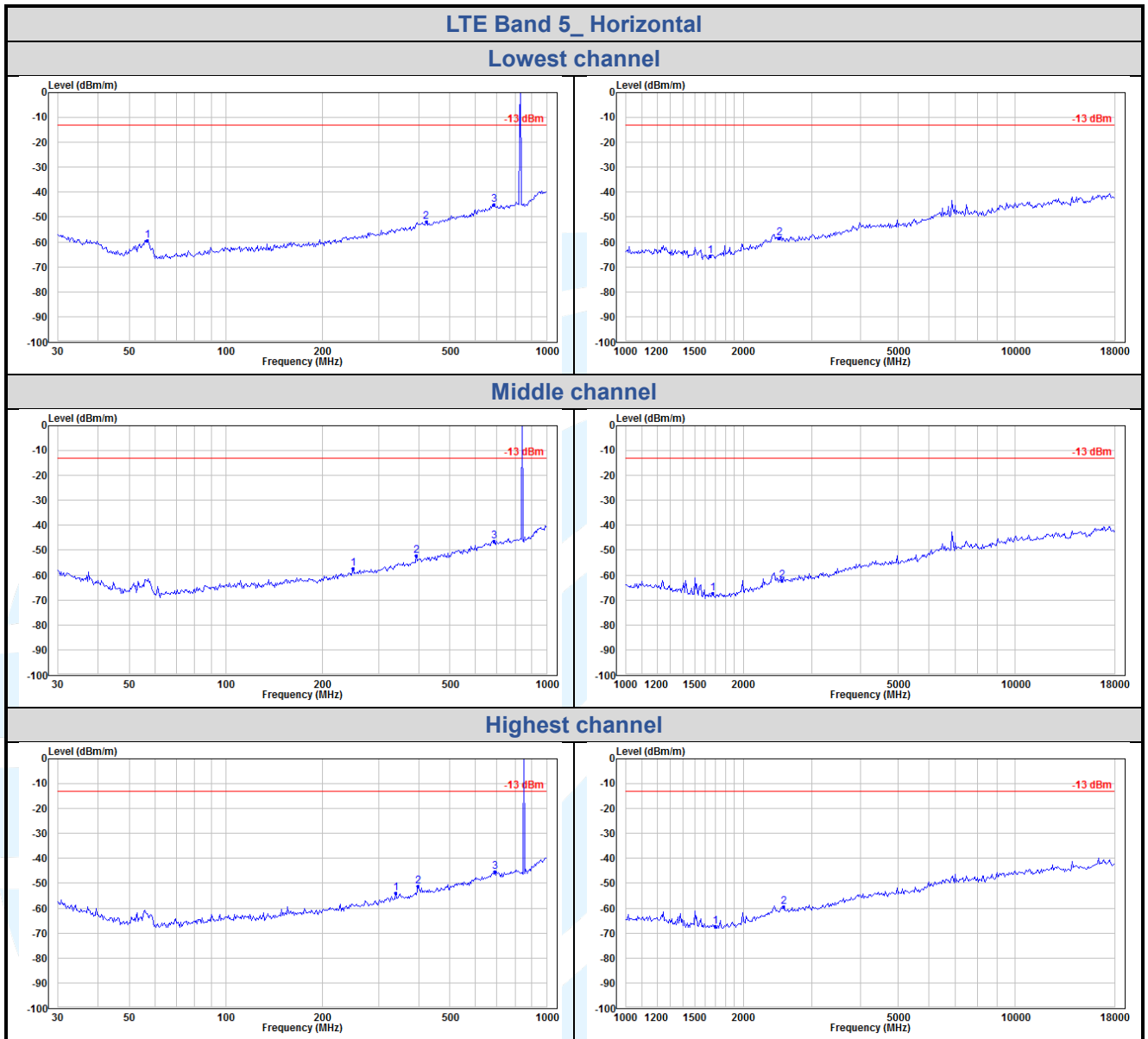


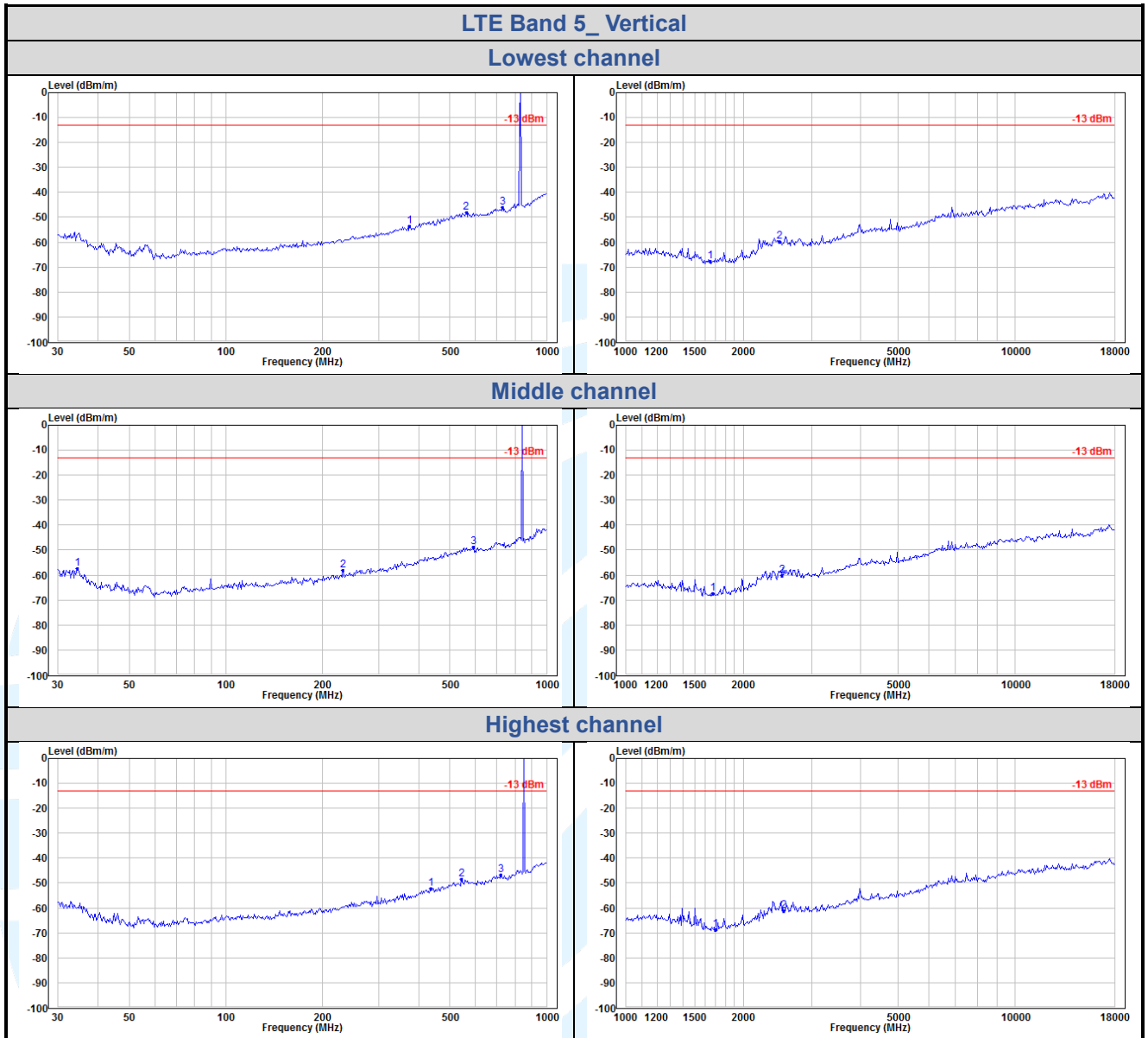
5.8.2 LTE Band 4



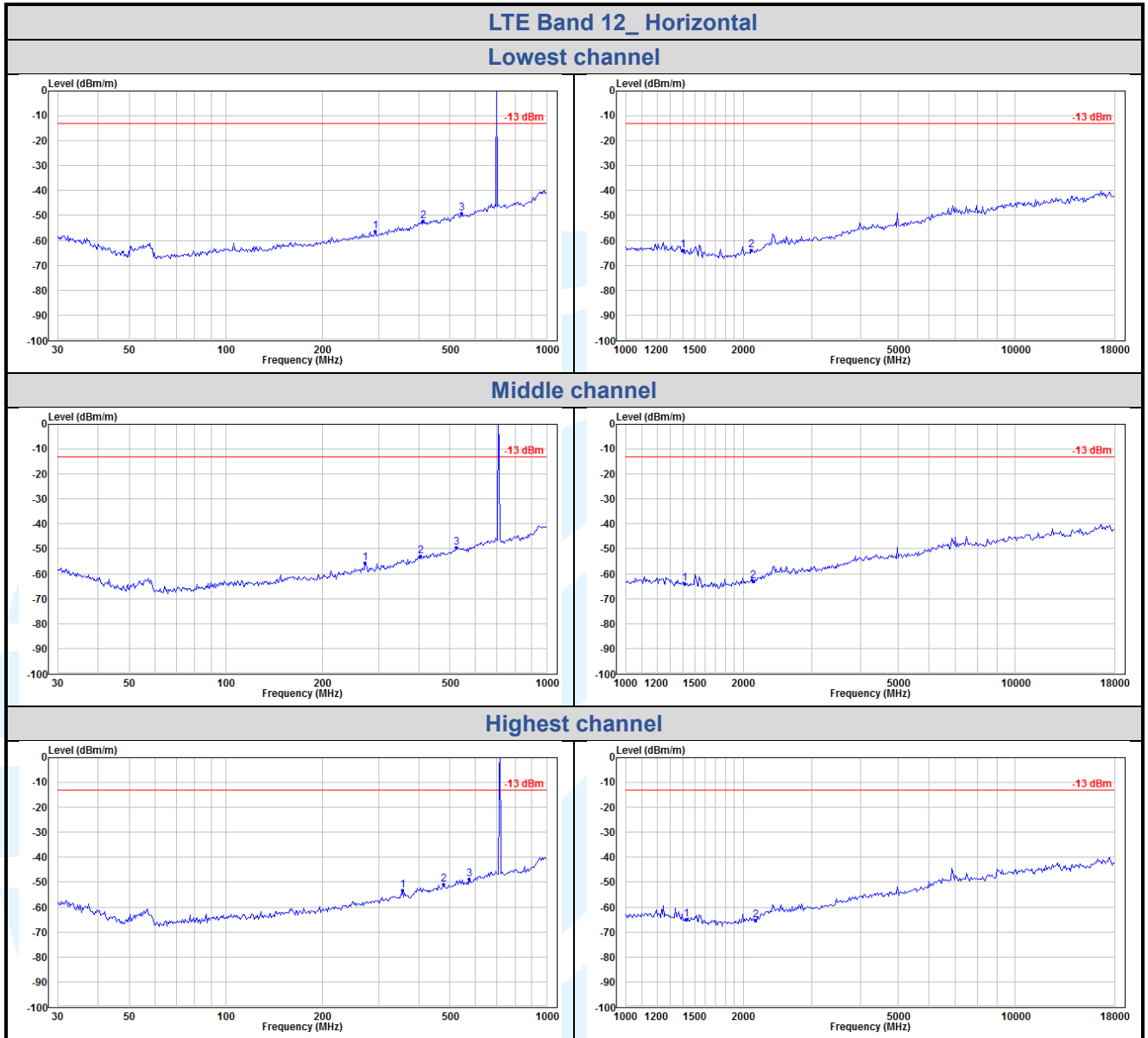


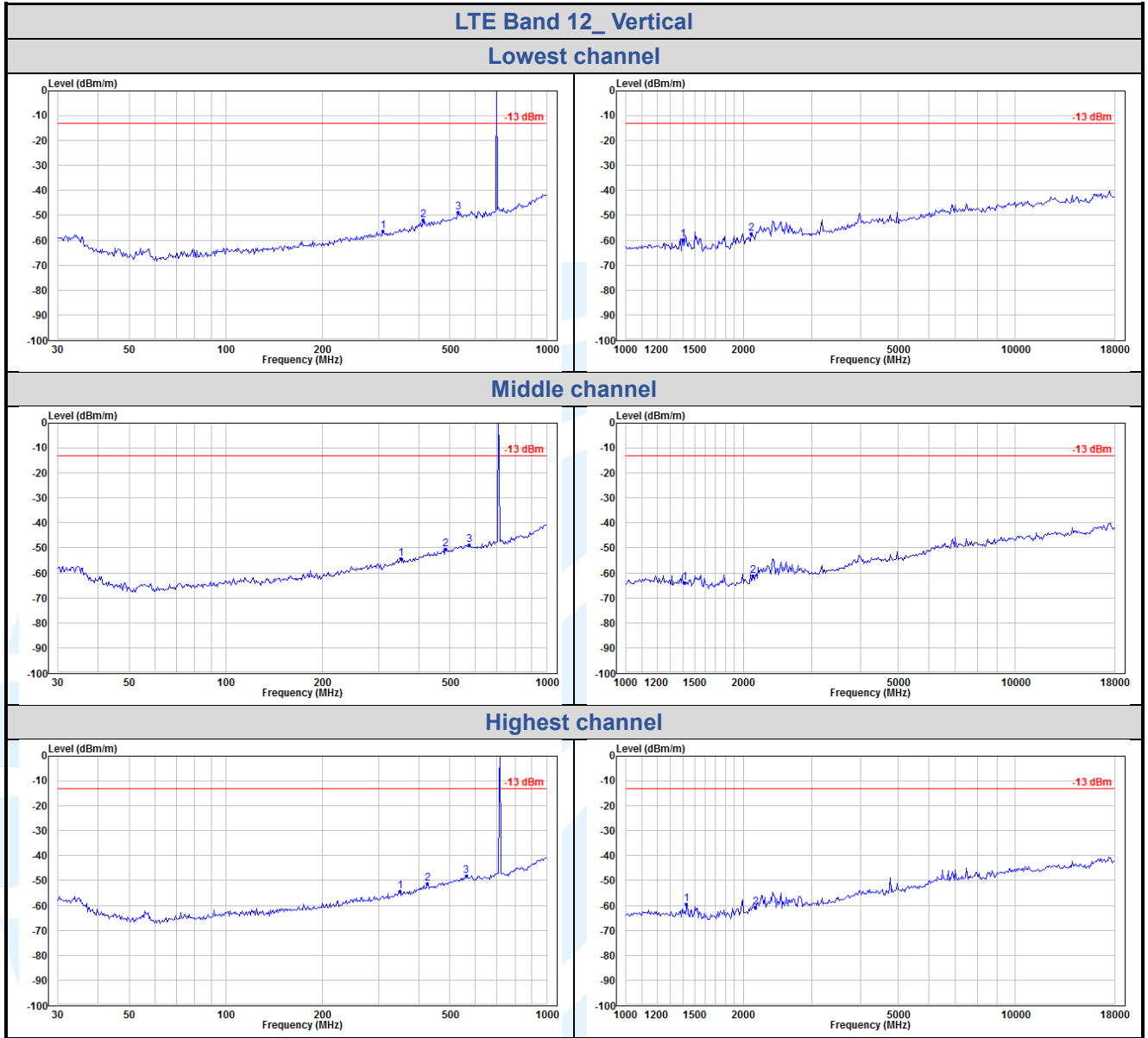
5.8.3 LTE Band 5



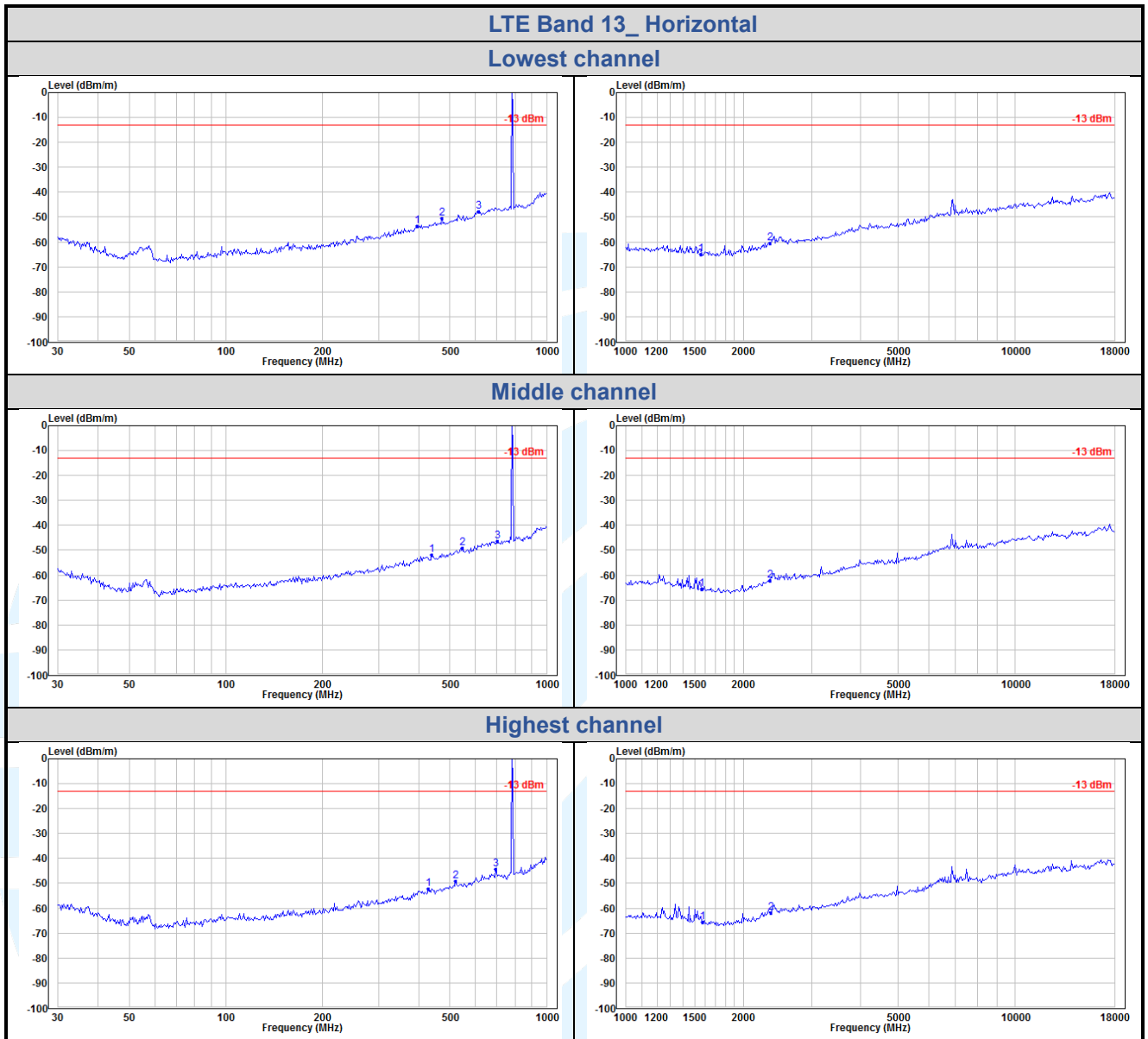


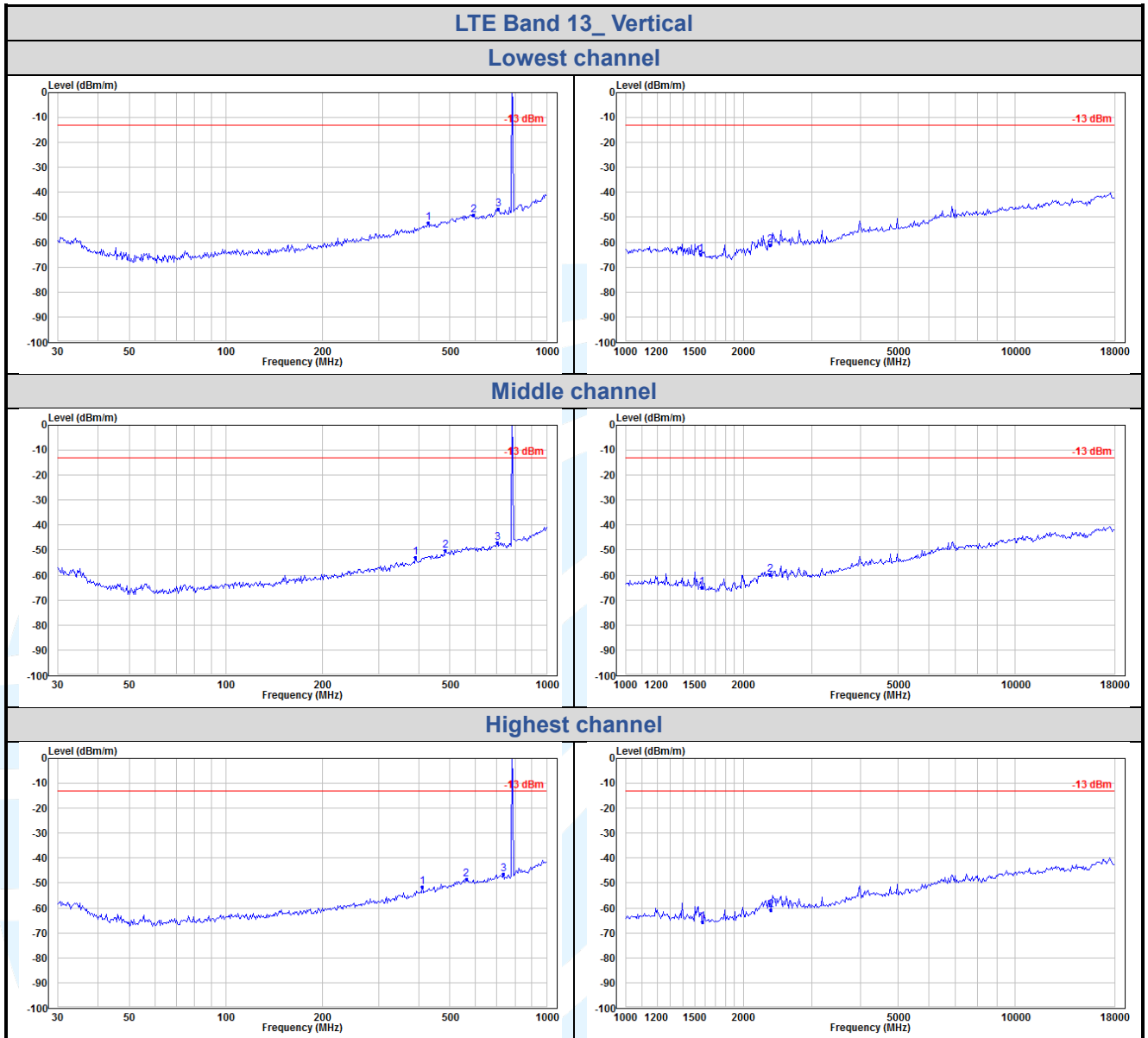
5.8.4 LTE Band 12



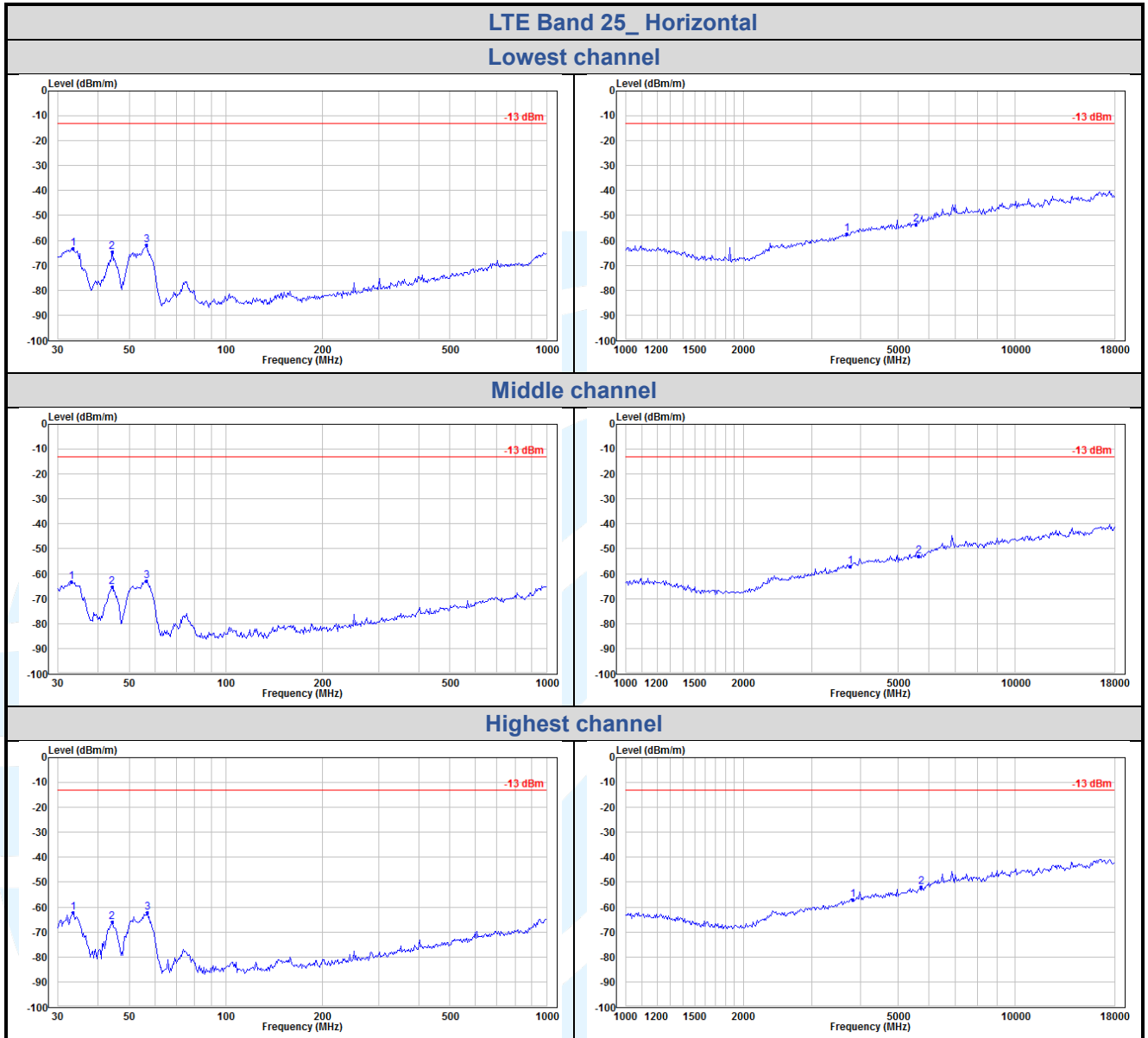


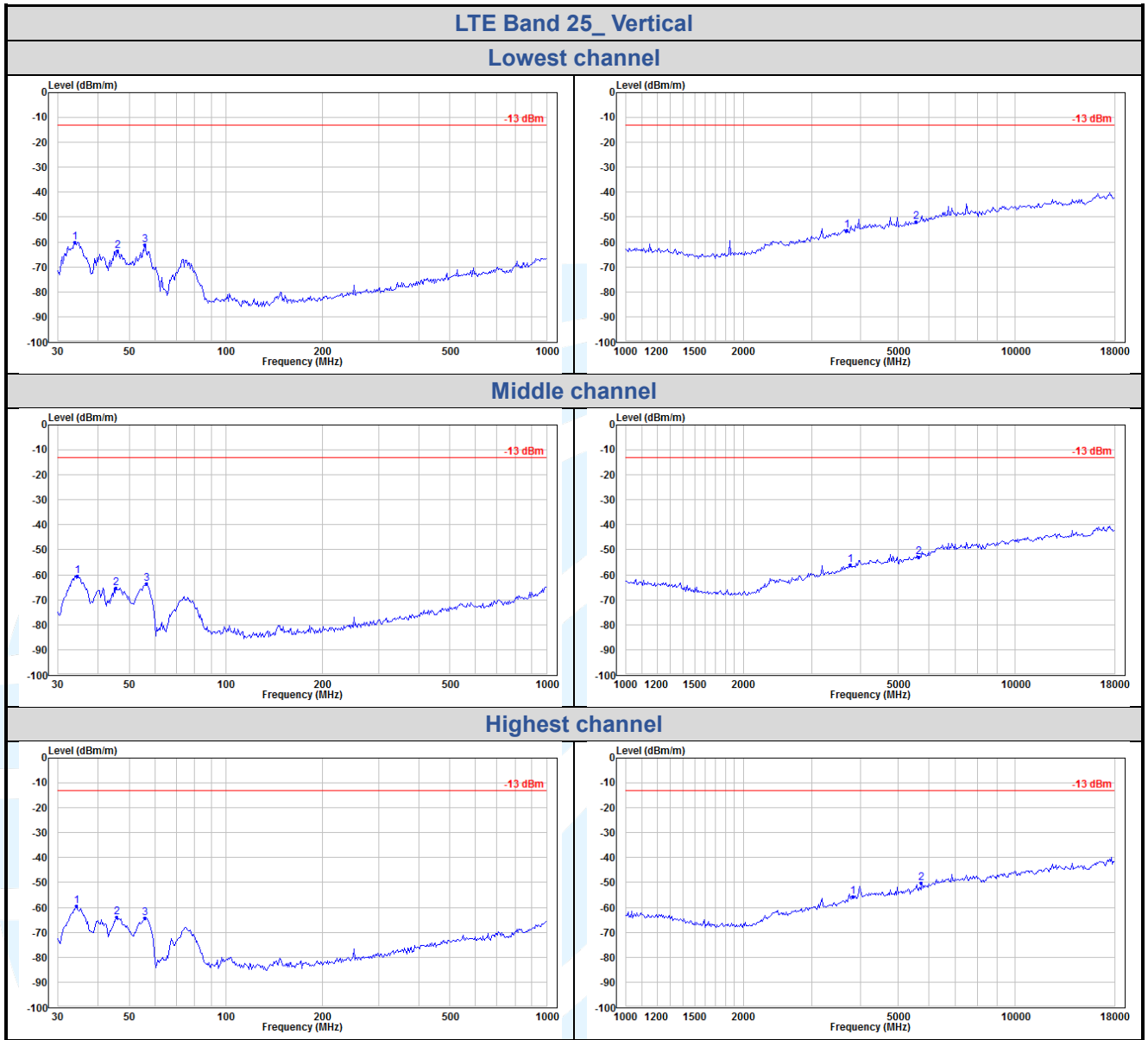
5.8.5 LTE Band 13



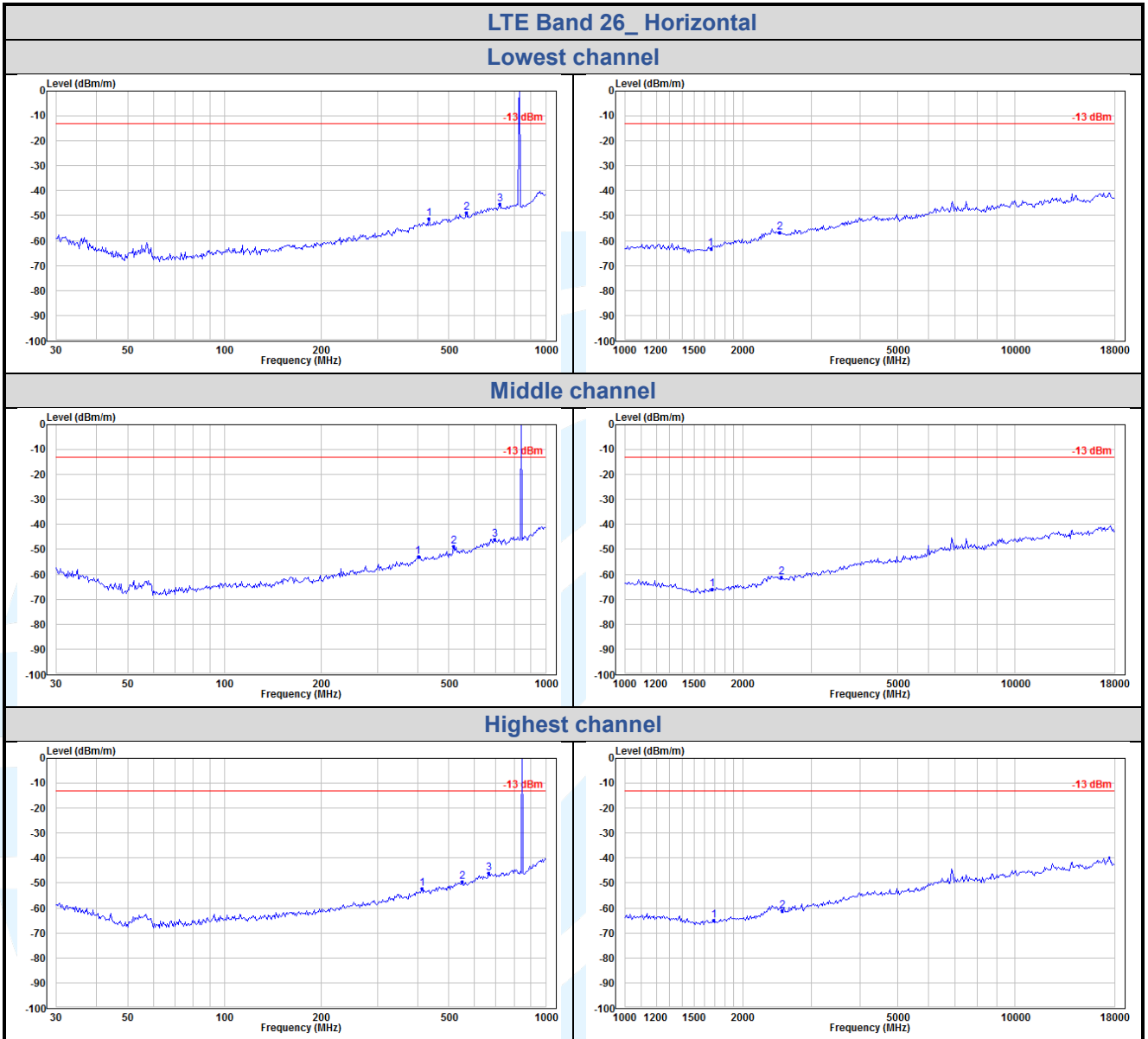


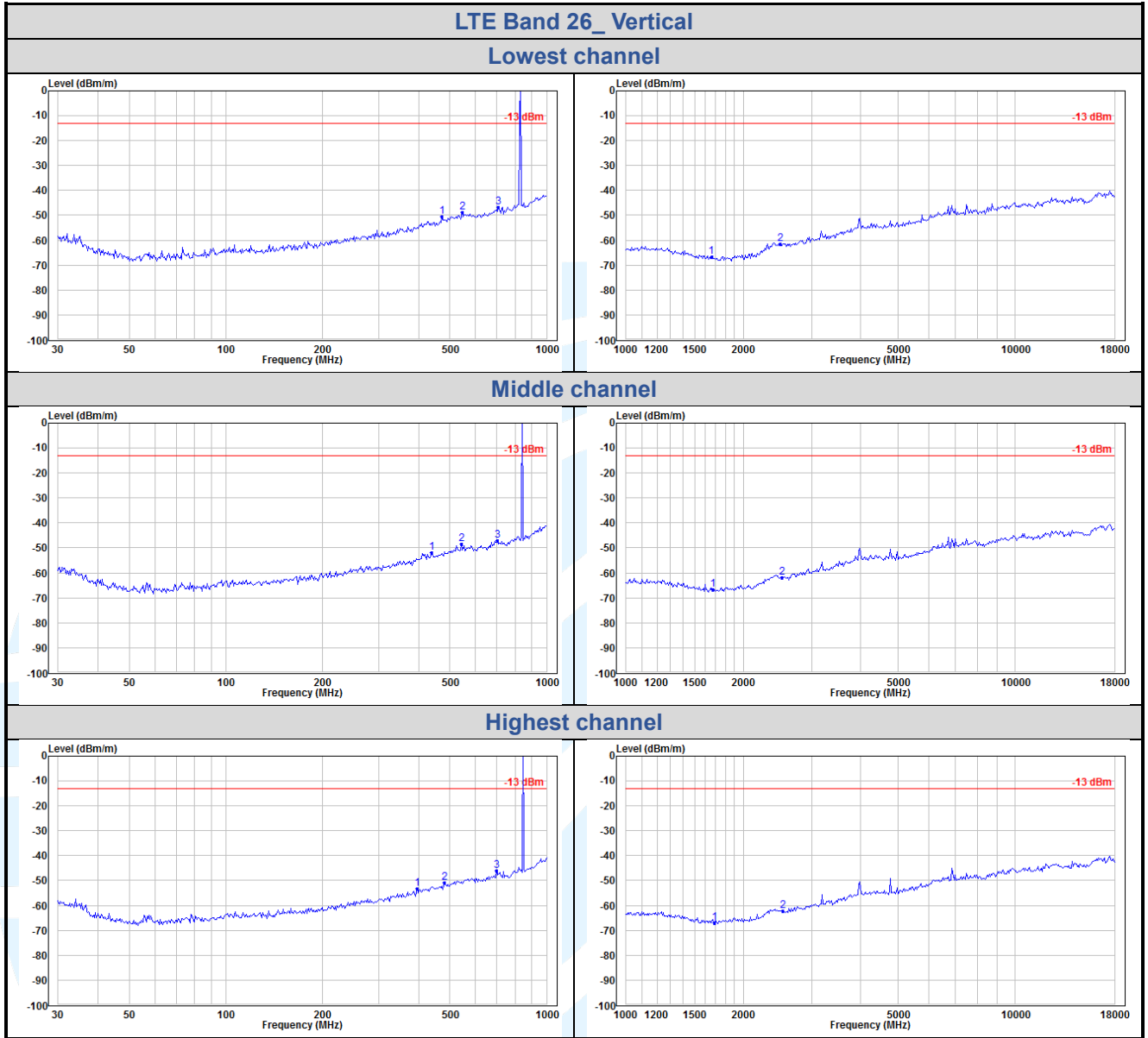
5.8.6 LTE Band 25



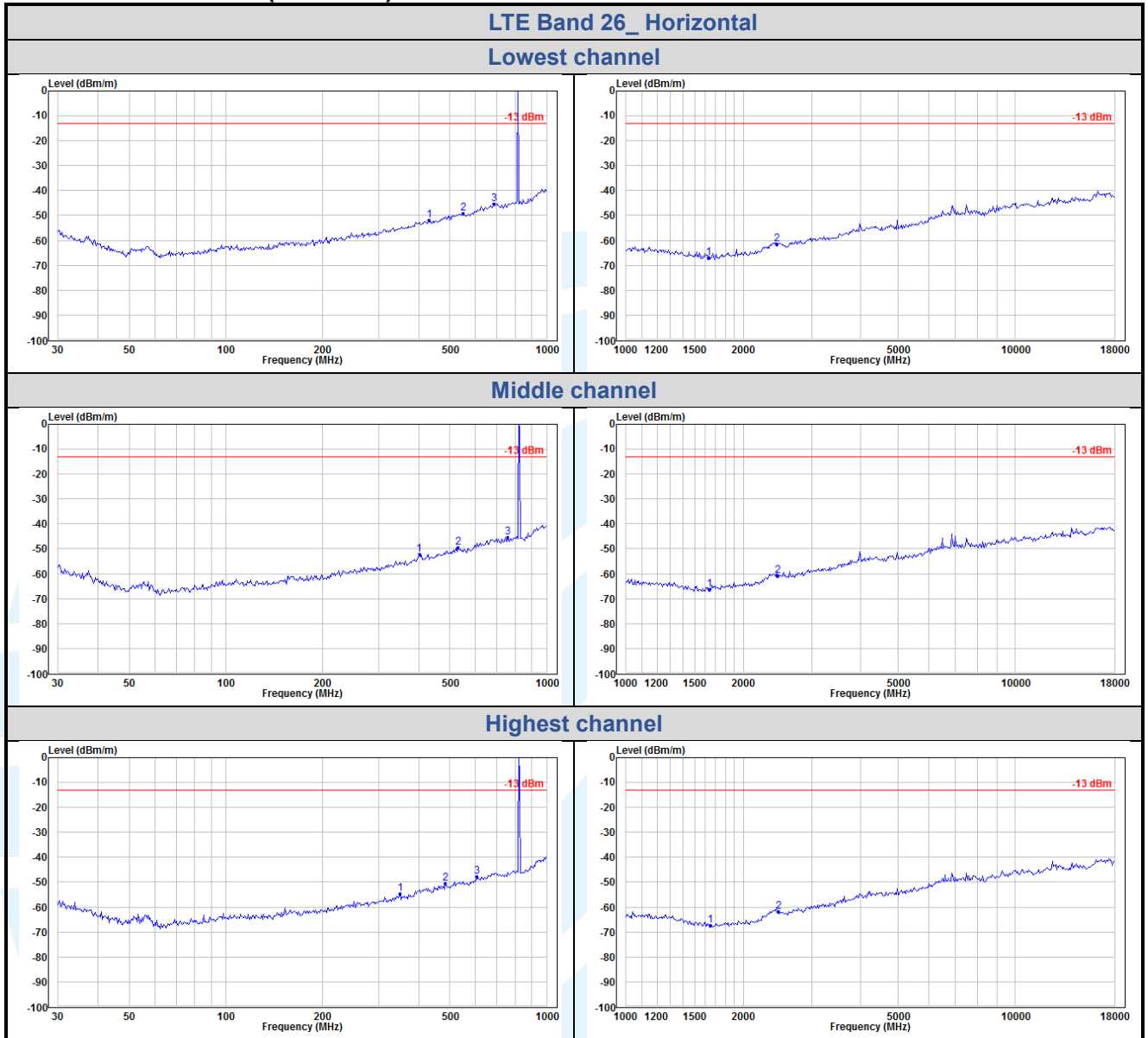


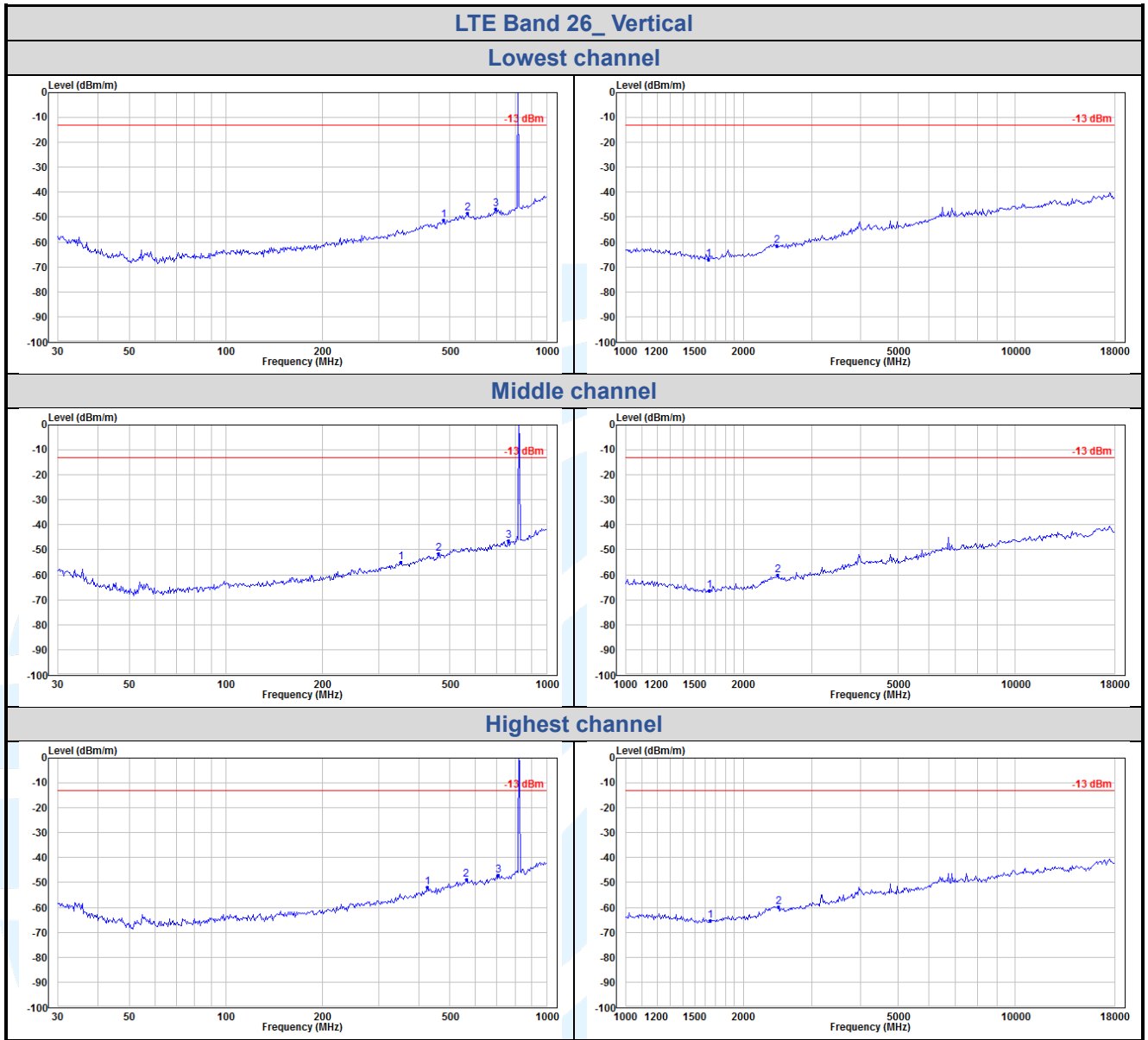
5.8.7 LTE Band 26



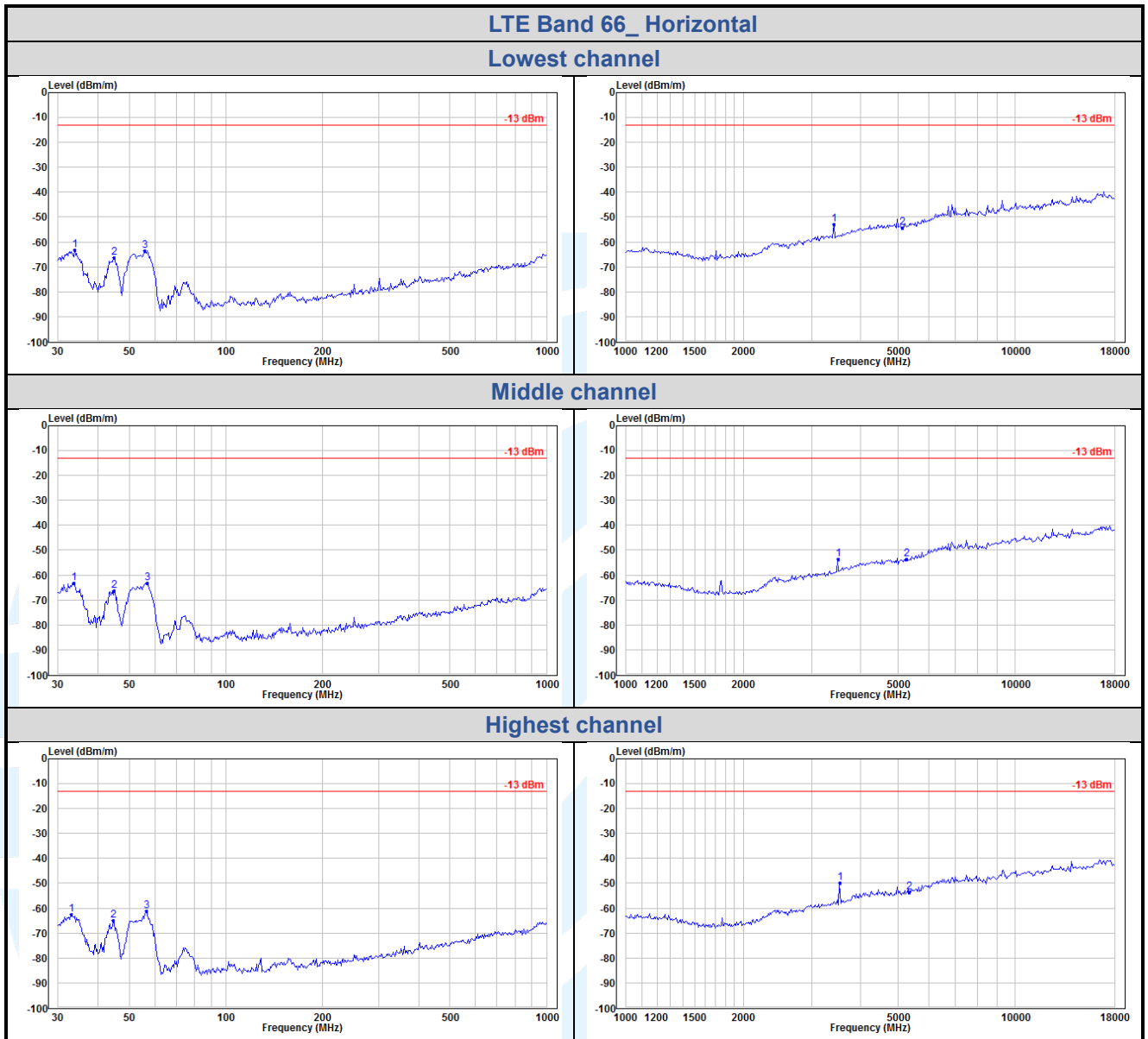


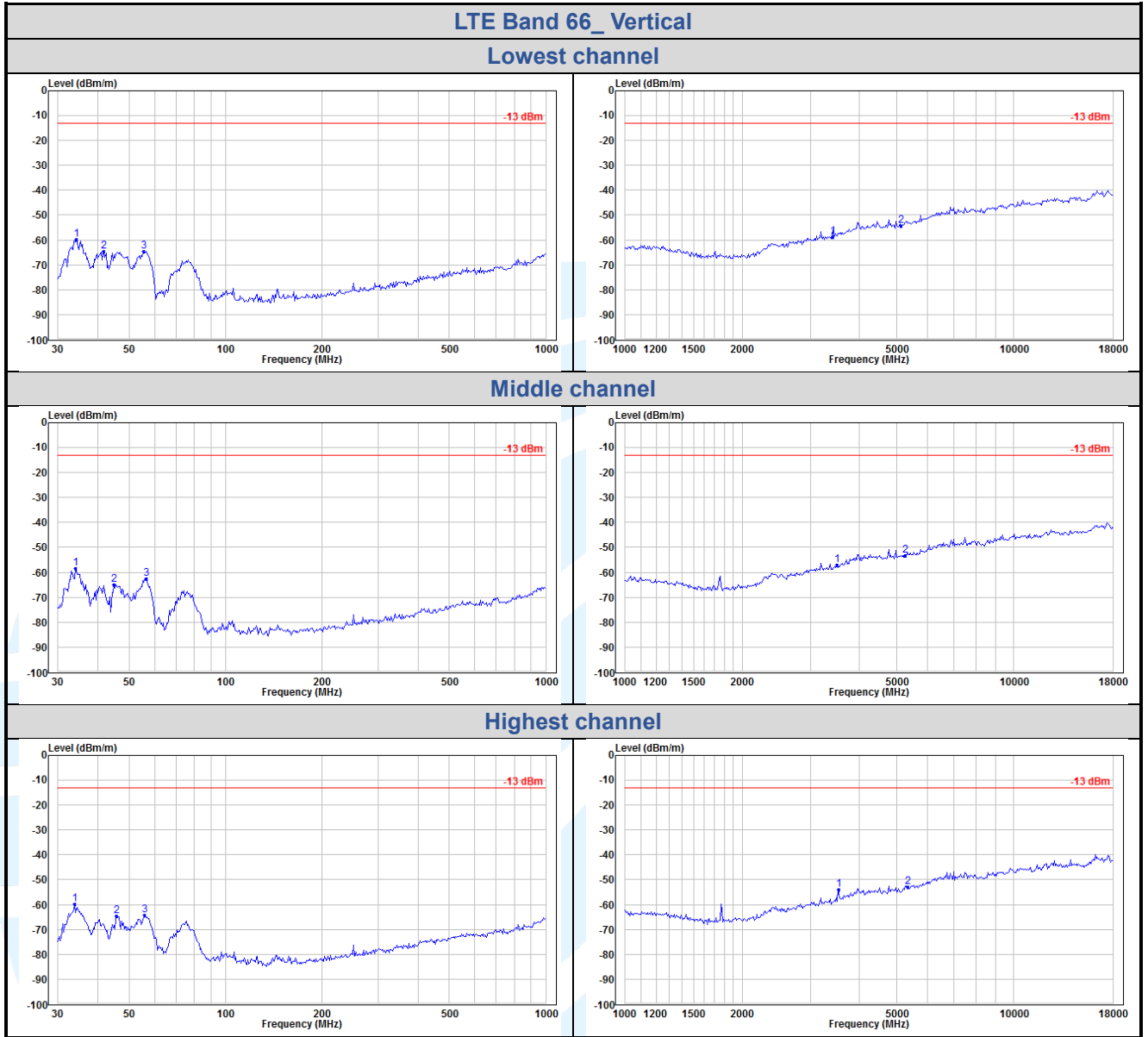
5.8.8 LTE Band 26(Part 90S)





5.8.9 LTE Band 66





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5.9 FREQUENCY STABILITY

FCC 47 CFR Part 2.1055 &
 FCC 47 CFR Part 22.355 &
 FCC 47 CFR Part 24.235 &
 FCC 47 CFR Part 27.54,

Test Requirement:

LTE Band 2 & LTE Band 25: RSS-133 Issue 6, Section 6.3
LTE Band 4 & LTE Band 66: RSS-139 Issue 3, Section 6.4
LTE Band 5: RSS-132 Issue 3, Section 5.3
LTE Band 12 & LTE Band 13: RSS-130 Issue 2, Section 4.5

Test Method:

ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Par 90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS-132 Issue 3, Section 5.3:

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations

RSS-133 Issue 6, Section 6.3:

The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

RSS-139 Issue 3, Section 6.4, RSS-130 Issue 2, Section 4.5:

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

- 1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.
 - a) Temp. = -30° to $+50^{\circ}\text{C}$
 - b) Voltage = low voltage, 2.55 Vdc, Normal, 3.8 Vdc and High voltage, 4.6Vdc.
- 2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

- 3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

5.9.1 LTE Band 2

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature | Deviation | Deviation | Limit | Pass/ Fail |
|-------------------------------------|--------------------------------|---------|-------------|-----------|-----------|-------|------------|
| | | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | |
| LTE Band 2 / 20MHz / Full RB | | | | | | | |
| QPSK | 18900 / 1880.0 | VL | TN | 4.21 | 0.0022 | N/A | Pass |
| | | VN | | 5.74 | 0.0031 | | Pass |
| | | VH | | 4.33 | 0.0023 | | Pass |
| | | VN | 50 | 6.45 | 0.0034 | | Pass |
| | | | 40 | 5.86 | 0.0031 | | Pass |
| | | | 30 | 5.68 | 0.0030 | | Pass |
| | | | 20 | 5.21 | 0.0028 | | Pass |
| | | | 10 | 4.54 | 0.0024 | | Pass |
| | | | 0 | 4.32 | 0.0023 | | Pass |
| | | | -10 | -1.23 | -0.0007 | | Pass |
| | | | -20 | -2.34 | -0.0012 | | Pass |
| | | | -30 | -3.43 | -0.0018 | | Pass |

5.9.2 LTE Band 4

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Pass/ Fail |
|-------------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|------------|
| | | | | | | | |
| LTE Band 4 / 20MHz / Full RB | | | | | | | |
| QPSK | 20175 / 1732.5 | VL | TN | -5.66 | -0.0033 | N/A | Pass |
| | | VN | | -4.53 | -0.0026 | | Pass |
| | | VH | | -5.43 | -0.0031 | | Pass |
| | | VN | 50 | -10.22 | -0.0059 | | Pass |
| | | | 40 | -8.43 | -0.0049 | | Pass |
| | | | 30 | -5.21 | -0.0030 | | Pass |
| | | | 20 | -6.35 | -0.0037 | | Pass |
| | | | 10 | -6.76 | -0.0039 | | Pass |
| | | | 0 | -7.43 | -0.0043 | | Pass |
| | | | -10 | -7.86 | -0.0045 | | Pass |
| | | | -20 | -8.90 | -0.0051 | | Pass |
| | | | -30 | -9.65 | -0.0056 | | Pass |

5.9.3 LTE Band 5

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|-------------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| | | | | | | | |
| LTE Band 5 / 10MHz / Full RB | | | | | | | |
| QPSK | 20525 / 836.5 | VL | TN | 7.48 | 0.0089 | ± 2.5 | Pass |
| | | VN | | 5.85 | 0.0070 | ± 2.5 | Pass |
| | | VH | | 5.96 | 0.0071 | ± 2.5 | Pass |
| | | VN | 50 | 7.43 | 0.0089 | ± 2.5 | Pass |
| | | | 40 | 6.52 | 0.0078 | ± 2.5 | Pass |
| | | | 30 | 5.79 | 0.0069 | ± 2.5 | Pass |
| | | | 20 | 4.32 | 0.0052 | ± 2.5 | Pass |
| | | | 10 | 3.98 | 0.0048 | ± 2.5 | Pass |
| | | | 0 | -2.01 | -0.0024 | ± 2.5 | Pass |
| | | | -10 | -2.58 | -0.0031 | ± 2.5 | Pass |
| | | | -20 | -3.41 | -0.0041 | ± 2.5 | Pass |
| | | | -30 | 1.60 | 0.0019 | ± 2.5 | Pass |

5.9.4 LTE Band 12

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|--------------------------------------|--------------------------------|---------|-------------|-----------|-----------|-------|--------|
| | | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | |
| LTE Band 12 / 10MHz / Full RB | | | | | | | |
| QPSK | 23095 / 707.5 | VL | TN | -4.64 | -0.0066 | N/A | Pass |
| | | VN | | -4.19 | -0.0059 | | Pass |
| | | VH | | -3.98 | -0.0056 | | Pass |
| | | VN | 50 | -6.45 | -0.0091 | | Pass |
| | | | 40 | -3.65 | -0.0052 | | Pass |
| | | | 30 | -4.18 | -0.0059 | | Pass |
| | | | 20 | -3.78 | -0.0053 | | Pass |
| | | | 10 | -5.43 | -0.0077 | | Pass |
| | | | 0 | -3.88 | -0.0055 | | Pass |
| | | | -10 | -5.45 | -0.0077 | | Pass |
| | | | -20 | -5.67 | -0.0080 | | Pass |
| | | | -30 | -1.83 | -0.0026 | | Pass |

5.9.5 LTE Band 13

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|--------------------------------------|--------------------------------|---------|-------------|-----------|-----------|-------|--------|
| | | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | |
| LTE Band 13 / 10MHz / Full RB | | | | | | | |
| QPSK | 23230 / 782 | VL | TN | -3.22 | -0.0041 | N/A | Pass |
| | | VN | | -5.12 | -0.0065 | | Pass |
| | | VH | | -5.43 | -0.0069 | | Pass |
| | | VN | 50 | -3.54 | -0.0045 | | Pass |
| | | | 40 | -2.31 | -0.0030 | | Pass |
| | | | 30 | -4.98 | -0.0064 | | Pass |
| | | | 20 | -2.67 | -0.0034 | | Pass |
| | | | 10 | -4.75 | -0.0061 | | Pass |
| | | | 0 | -3.01 | -0.0038 | | Pass |
| | | | -10 | -3.18 | -0.0041 | | Pass |
| | | | -20 | -4.52 | -0.0058 | | Pass |
| | | | -30 | -5.02 | -0.0064 | | Pass |

5.9.6 LTE Band 25

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|--------------------------------------|--------------------------------|---------|-------------|-----------|-----------|-------|--------|
| | | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | |
| LTE Band 25 / 20MHz / Full RB | | | | | | | |
| QPSK | 26340 / 1880.0 | VL | TN | 4.55 | 0.0024 | N/A | Pass |
| | | VN | | 5.76 | 0.0031 | | Pass |
| | | VH | | 5.55 | 0.0030 | | Pass |
| | | VN | 50 | 6.43 | 0.0034 | | Pass |
| | | | 40 | 6.01 | 0.0032 | | Pass |
| | | | 30 | 5.67 | 0.0030 | | Pass |
| | | | 20 | 5.56 | 0.0030 | | Pass |
| | | | 10 | 4.09 | 0.0022 | | Pass |
| | | | 0 | 3.12 | 0.0017 | | Pass |
| | | | -10 | -1.32 | -0.0007 | | Pass |
| | | | -20 | -1.56 | -0.0008 | | Pass |
| | | | -30 | 3.76 | 0.0020 | | Pass |

5.9.7 LTE Band 26

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|--------------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| | | | | | | | |
| LTE Band 26 / 15MHz / Full RB | | | | | | | |
| QPSK | 26915 / 836.5 | VL | TN | -8.67 | -0.0104 | ± 2.5 | Pass |
| | | VN | | -8.21 | -0.0098 | ± 2.5 | Pass |
| | | VH | | -8.08 | -0.0097 | ± 2.5 | Pass |
| | | VN | 50 | -5.49 | -0.0066 | ± 2.5 | Pass |
| | | | 40 | -6.38 | -0.0076 | ± 2.5 | Pass |
| | | | 30 | -8.11 | -0.0097 | ± 2.5 | Pass |
| | | | 20 | -10.32 | -0.0123 | ± 2.5 | Pass |
| | | | 10 | -9.42 | -0.0113 | ± 2.5 | Pass |
| | | | 0 | -10.54 | -0.0126 | ± 2.5 | Pass |
| | | | -10 | -10.76 | -0.0129 | ± 2.5 | Pass |
| | | | -20 | -12.30 | -0.0147 | ± 2.5 | Pass |
| | | | -30 | -2.23 | -0.0027 | ± 2.5 | Pass |

5.9.8 LTE Band 26 (Part 90S)

| Modulation | Channel/ Frequency (MHz) | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
|--------------------------------------|--------------------------------|------------------|---------------------|-------------------|--------------------|----------------|--------|
| | | | | | | | |
| LTE Band 26 / 10MHz / Full RB | | | | | | | |
| QPSK | 26740 / 819 | VL | TN | -10.12 | -0.0124 | ± 2.5 | Pass |
| | | VN | | -8.67 | -0.0106 | ± 2.5 | Pass |
| | | VH | | -9.32 | -0.0114 | ± 2.5 | Pass |
| | | VN | 50 | -5.43 | -0.0066 | ± 2.5 | Pass |
| | | | 40 | -7.39 | -0.0090 | ± 2.5 | Pass |
| | | | 30 | -8.43 | -0.0103 | ± 2.5 | Pass |
| | | | 20 | -9.01 | -0.0110 | ± 2.5 | Pass |
| | | | 10 | -9.43 | -0.0115 | ± 2.5 | Pass |
| | | | 0 | -10.21 | -0.0125 | ± 2.5 | Pass |
| | | | -10 | -11.32 | -0.0138 | ± 2.5 | Pass |
| | | | -20 | -12.39 | -0.0151 | ± 2.5 | Pass |
| | | | -30 | -11.34 | -0.0138 | ± 2.5 | Pass |

5.9.9 LTE Band 66

| Modulation | Channel/ Frequency (MHz) | Voltage | Temperature | Deviation | Deviation | Limit | Result |
|--------------------------------------|--------------------------------|---------|-------------|-----------|-----------|-------|--------|
| | | (Vdc) | (°C) | (Hz) | (ppm) | (ppm) | |
| LTE Band 66 / 20MHz / Full RB | | | | | | | |
| QPSK | 132322 / 1745 | VL | TN | 13.21 | 0.0076 | N/A | Pass |
| | | VN | | 11.65 | 0.0067 | | Pass |
| | | VH | | 12.43 | 0.0071 | | Pass |
| | | VN | 50 | 14.53 | 0.0083 | | Pass |
| | | | 40 | 12.89 | 0.0074 | | Pass |
| | | | 30 | 11.62 | 0.0067 | | Pass |
| | | | 20 | 8.90 | 0.0051 | | Pass |
| | | | 10 | 5.47 | 0.0031 | | Pass |
| | | | 0 | 0.93 | 0.0005 | | Pass |
| | | | -10 | -2.14 | -0.0012 | | Pass |
| | | | -20 | -3.55 | -0.0020 | | Pass |
| | | | -30 | -4.37 | -0.0025 | | Pass |

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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