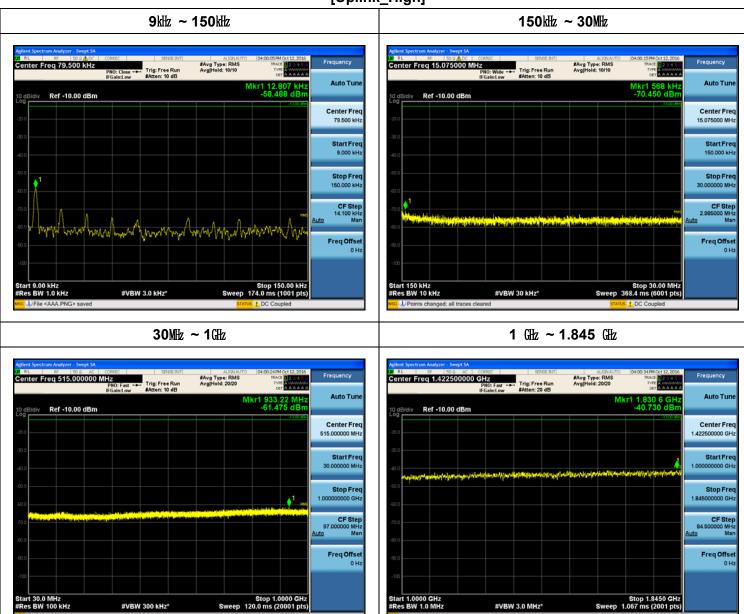
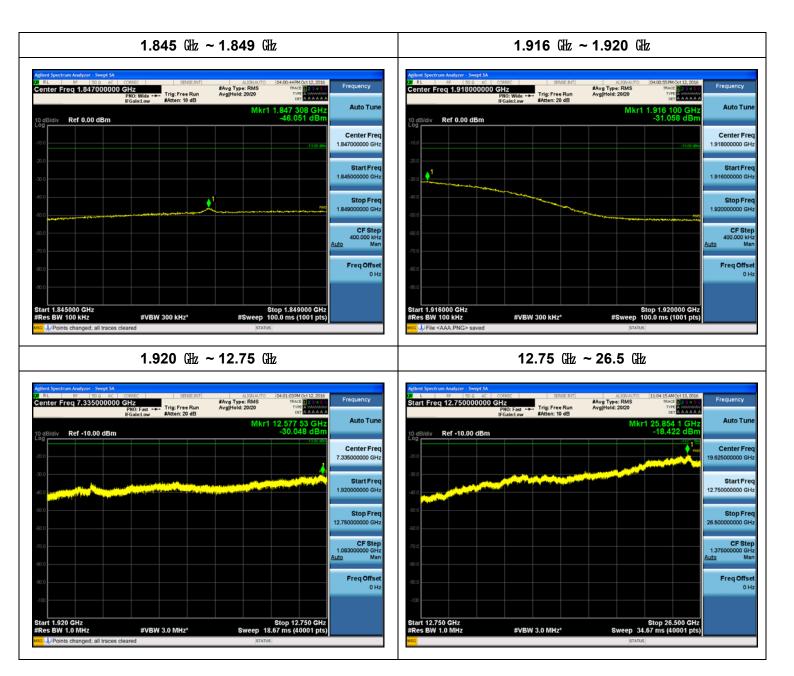


[Uplink_High]





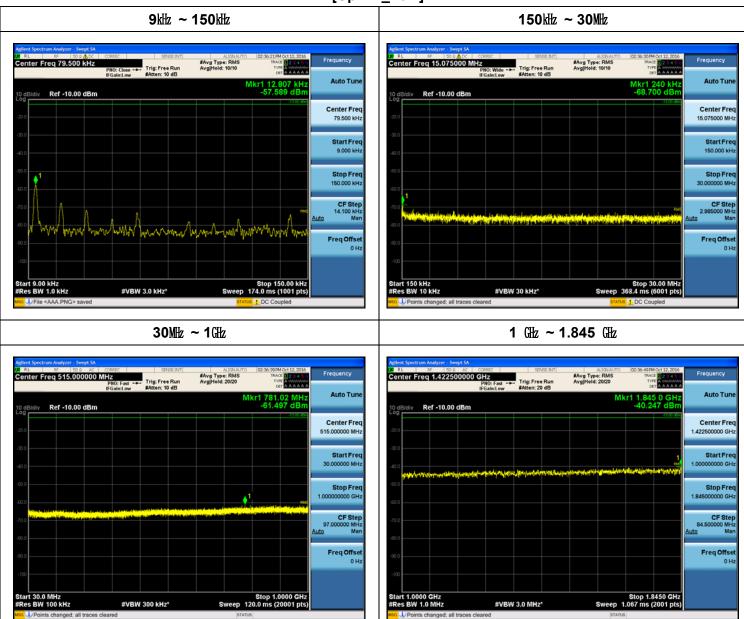




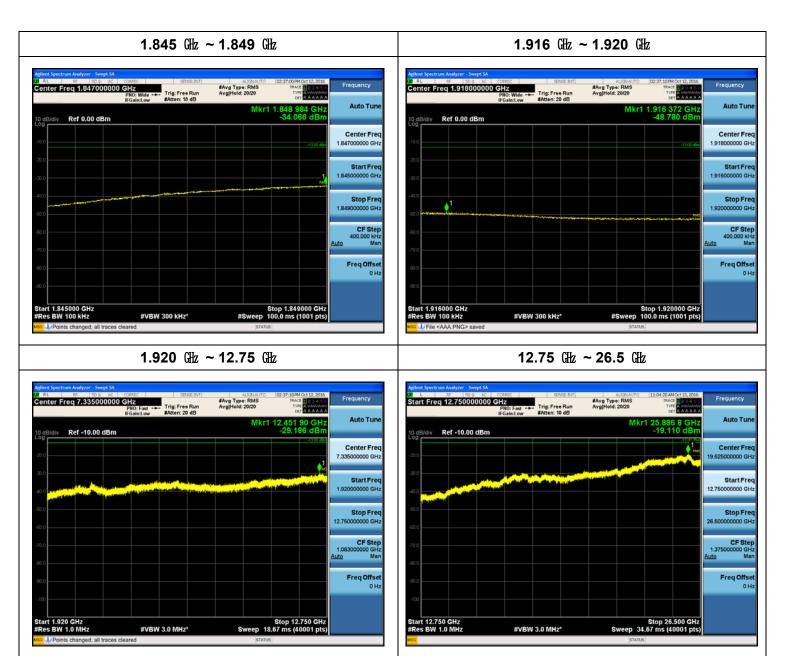
LTE 10 MHz

Report No.: HCT-R-1611-F007-2

[Uplink_Low]

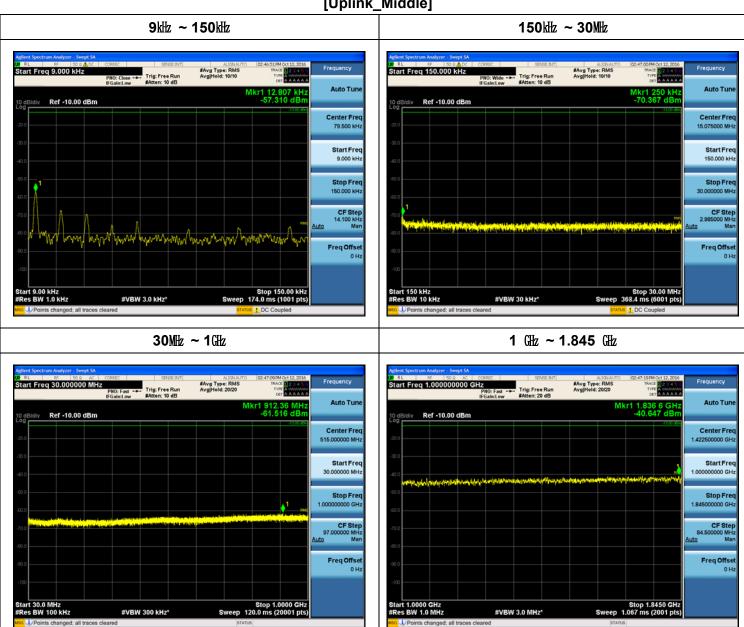




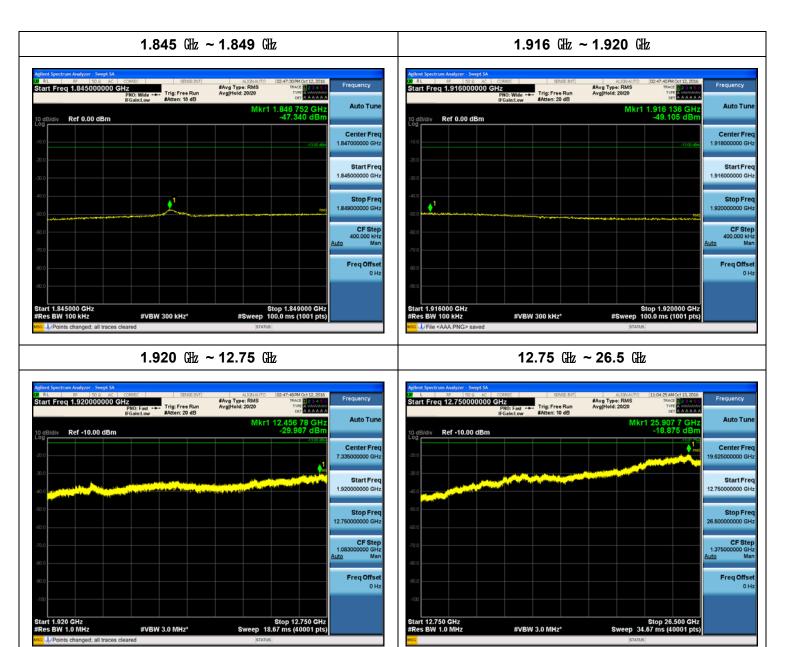




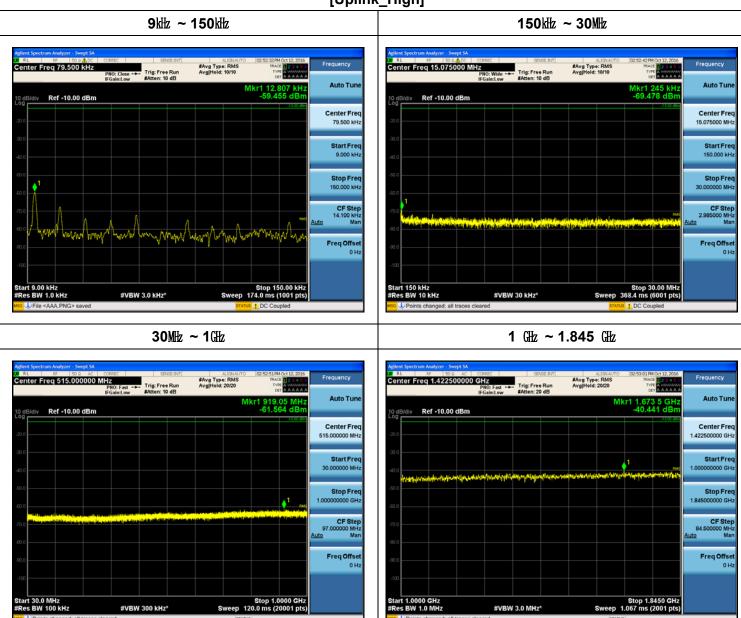
[Uplink_Middle]







[Uplink_High]



1.845 础 ~ 1.849 础 1.916 础 ~ 1.920 础 #Avg Type: RMS Avg|Hold: 20/20 #Avg Type: RMS Avg|Hold: 20/20 Wide -- Trig: Free Run Ref 0.00 dBm Ref 0.00 dBm Center Freq 1.847000000 GHz Center Freq 1.918000000 GHz CF Step 400.000 kH Mar CF Step 400.000 kHz Freq Offset Stop 1.849000 GHz #Sweep 100.0 ms (1001 pts) Stop 1.920000 GHz #Sweep 100.0 ms (1001 pts) Start 1.916000 GHz #Res BW 100 kHz 1.920 强 ~ 12.75 强 12.75 础 ~ 26.5 础 Center Freq 7.335000000 GHz #Avg Type: RMS Avg|Hold: 20/20 #Avg Type: RMS Avg[Hold; 20/20 Start Freq 12.750000000 GHz Trig: Free Run Trig: Free Run Auto Tune Auto Tun Ref -10.00 dBm Ref -10.00 dBm

Frequency

Frequency

Auto Tune

MKr1 12.751 88 G GHz

Auto Tune

MKr2 29.243 dBm

Center Freq
7.335000000 GHz

MKr1 27.5000000 GHz

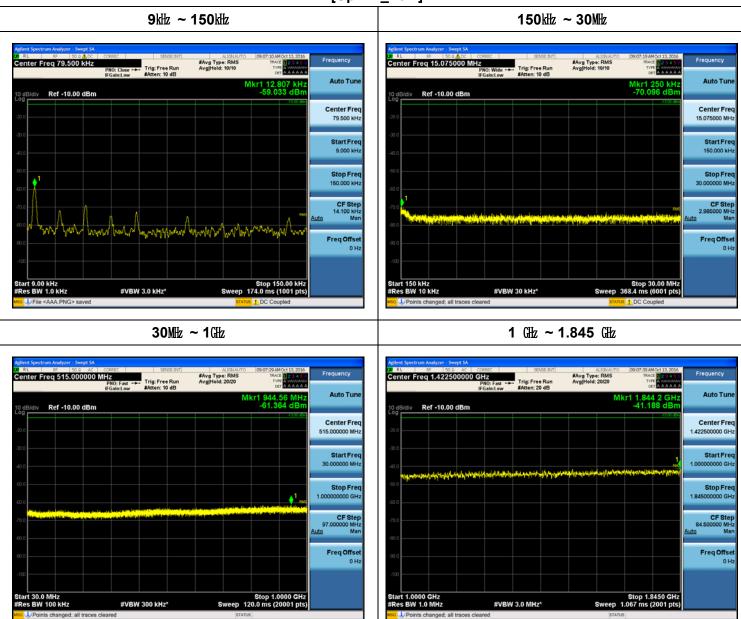
Start Freq
19.2000000 G



CDMA

[Uplink_Low]

Model: GST-IC-ELITE-1943

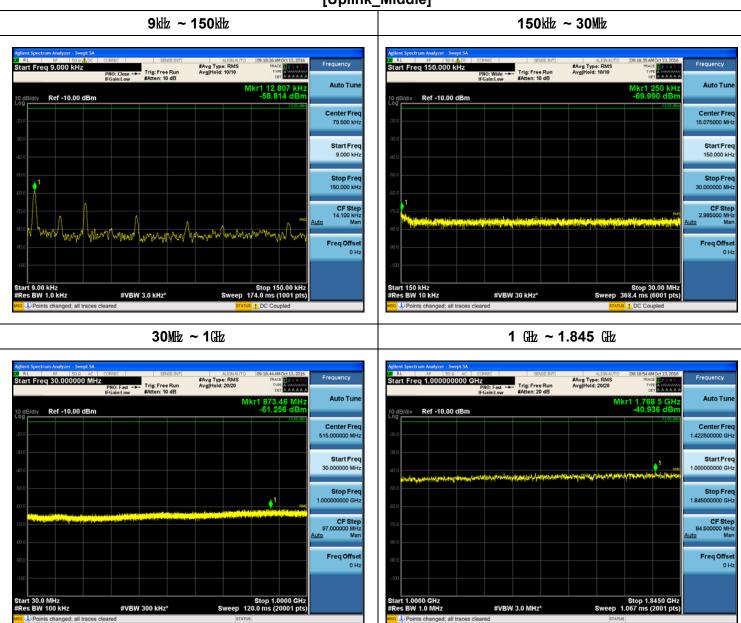


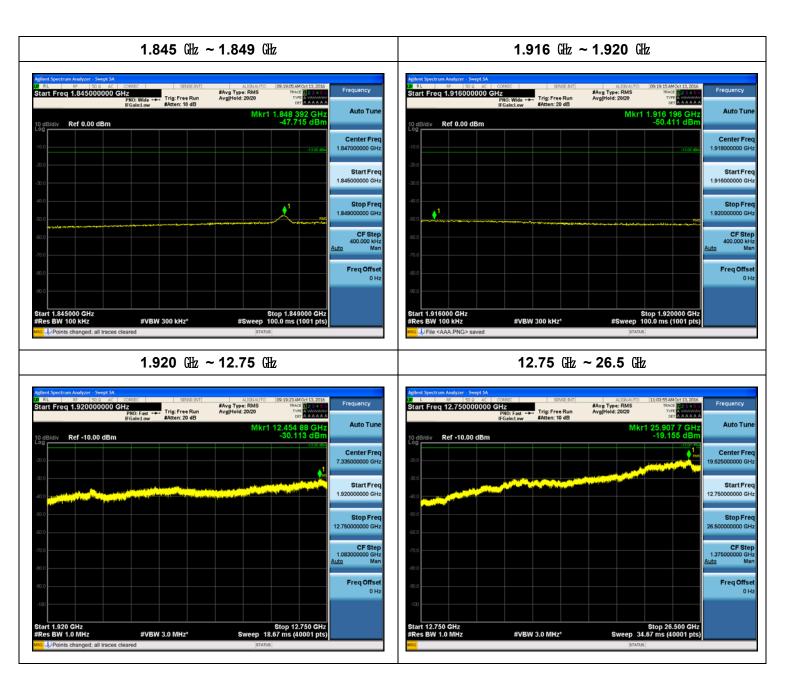
Report No.: HCT-R-1611-F007-2 Model: GST-IC-ELITE-1943 Page 106 of 125

1.845 础 ~ 1.849 础 1.916 础 ~ 1.920 础 Apidman Apidma #Avg Type: RMS Avg|Hold: 20/20 #Avg Type: RMS Avg|Hold: 20/20 Wide → Trig: Free Run Ref 0.00 dBm Center Freq 1.847000000 GHz Center Freq 1.918000000 GHz CF Step 400.000 kH Mar CF Step 400.000 kHz Freq Offset Stop 1.849000 GHz #Sweep 100.0 ms (1001 pts) Stop 1.920000 GHz #Sweep 100.0 ms (1001 pts) Start 1.916000 GHz #Res BW 100 kHz 1.920 强 ~ 12.75 强 12.75 础 ~ 26.5 础 #Avg Type: RMS Avg|Hold: 20/20 Center Freq 7.335000000 GHz #Avg Type: RMS Avg|Hold: 20/20 Start Freq 12.750000000 GHz Trig: Free Run Trig: Free Run Auto Tune Auto Tun Ref -10.00 dBm Ref -10.00 dBm Start Fred 12.750000000 GH: Stop Freq 12.750000000 GHz Stop Free 26.500000000 GH #VBW 3.0 MHz* #VBW 3.0 MHz*

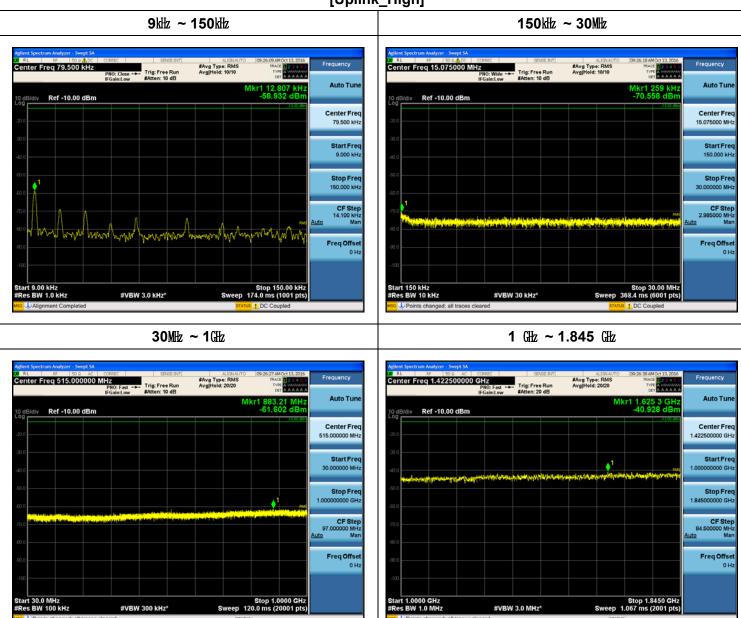


[Uplink_Middle]

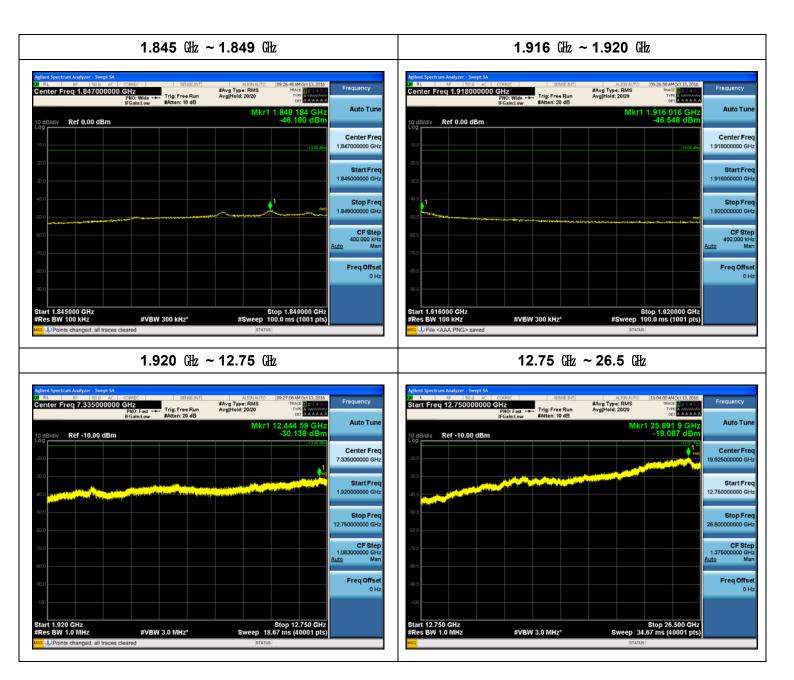




[Uplink_High]









Intermodulation Spurious Emissions for FCC LTE 5 MHz

[Downlink Low]



[Downlink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943

HCT CO.,LTD



LTE 10 MHz

Report No.: HCT-R-1611-F007-2

[Downlink Low]



[Downlink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



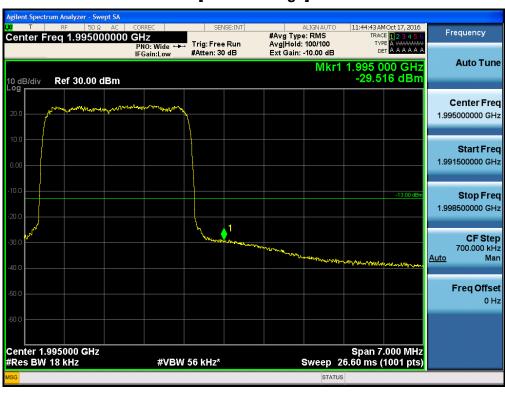
CDMA

Report No.: HCT-R-1611-F007-2

[Downlink Low]



[Downlink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



LTE 5 MHz

Report No.: HCT-R-1611-F007-2

[Uplink Low]



[Uplink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



LTE 10 MHz

Report No.: HCT-R-1611-F007-2

[Uplink Low]



[Uplink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



CDMA

Report No.: HCT-R-1611-F007-2

[Uplink Low]



[Uplink High]



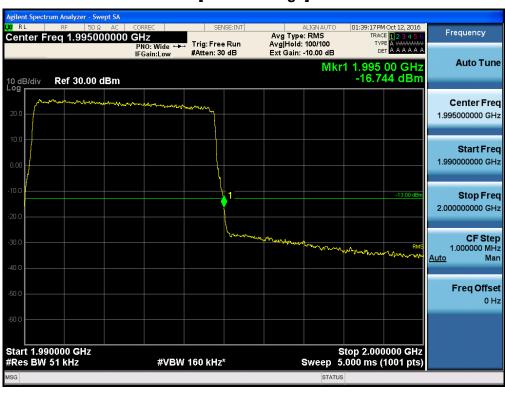
F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943 Report No.: HCT-R-1611-F007-2 Model: GST-IC-ELITE-1943

Single channel Enhancer Band Edge LTE 5 MHz

[Downlink Low]



[Downlink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943

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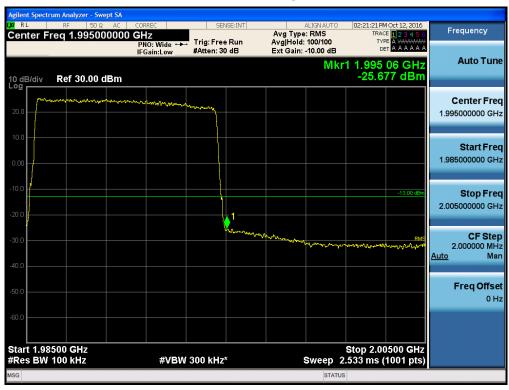
LTE 10 MHz

Report No.: HCT-R-1611-F007-2

[Downlink Low]



[Downlink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



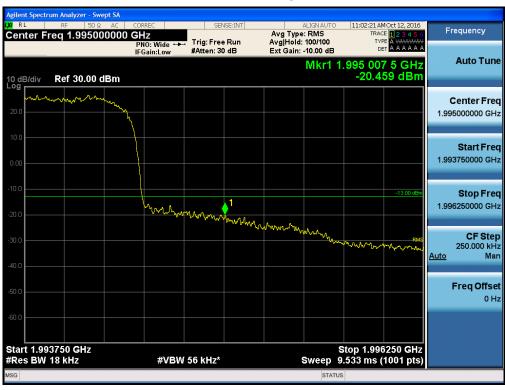
CDMA

Report No.: HCT-R-1611-F007-2

[Downlink Low]



[Downlink High]



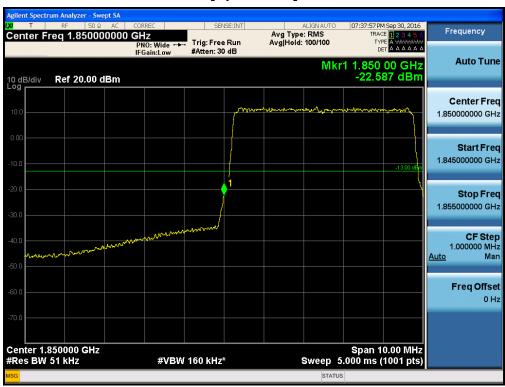
F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



LTE 5 MHz

Report No.: HCT-R-1611-F007-2

[Uplink Low]



[Uplink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



LTE 10 MHz

Report No.: HCT-R-1611-F007-2

[Uplink Low]



[Uplink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943

HCT CO.,LTD

CDMA

[Uplink Low]



[Uplink High]



F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943

122 / 125 **HCT (**



Report No.: HCT-R-1611-F007-2 Model: GST-IC-ELITE-1943 Page 123 of 125

10. RADIATED SPURIOUS EMISSIONS

Test Requirement(s):

§ 2.1053 Measurements required: Field strength of spurious radiation.

- (a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.
- (b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:
 - (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
 - (2) All equipment operating on frequencies higher than 25 MHz.
 - (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.

(4) Other types of equipment as required, when deemed necessary by the Commission.

F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943

HCT CO.,LTD

Report No.: HCT-R-1611-F007-2 Model: GST-IC-ELITE-1943 Page 124 of 125

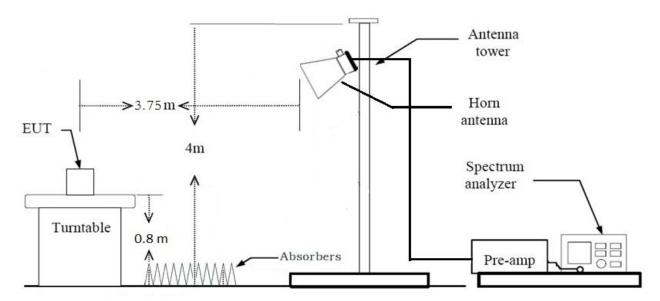
Test Procedures:

As required by 47 CFR 2.1053, *field strength of radiated spurious measurements* were made in accordance with the procedures of ANSI/TIA-603-C-2004 "Land Mobile FM or PM Communications Equipment Measurement and Performance Standards".

Radiated emission measurements were performed inside a 3 meter semi-anechoic chamber.

The EUT was set at a distance of 3m from the receiving antenna. The EUT's RF ports were terminated to 50ohm load. The EUT was set to transmit at the low, mid and high channels of the transmitter frequency range at its maximum power level. The EUT was rotated about 360and the receiving antenna scanned from 1-3m in order to capture the maximum emission. A calibrated antenna source was positioned in place of the EUT and the previously recorded signal was duplicated. The maximum EIRP of the emission was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried, out with the receiving antenna in both vertical and horizontal polarization. Harmonic emissions up to the 10th or 40GHz, whichever was the lesser, were investigated.

Radiated Spurious Emissions Test Setup



Note:

- 1. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor (reference distance: 3 m).
- 2. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943



Report No.: HCT-R-1611-F007-2 Model: GST-IC-ELITE-1943 Page 125 of 125

Test Result:

[CDMA]

| Ch. | Freq.(MHz) | Measured Level | Measured Power | Ant. Factor | C.L | A.G. | H.P.F | D.F. | Pol. | Result |
|------|------------|-------------------|-------------------|-------------|------|-------|-------|------|------|---------|
| | | [dBuV/m] | [dBm] | [dB/m] | [dB] | [dB] | [dB] | [dB] | | [dBm] |
| Low | 3,862.50 | 64.10 | -31.10 | 29.633 | 4.09 | 44.57 | 0.21 | 1.96 | V | -39.775 |
| Mid. | 3,925.00 | 58.44 | -36.76 | 29.730 | 3.96 | 44.99 | -0.19 | 1.96 | V | -46.290 |
| High | 3,987.50 | 61.89 | -33.31 | 29.750 | 4.08 | 44.76 | 0.04 | 1.96 | V | -42.243 |

^{*} C.L.: Cable Loss / A.G.: Amp. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

[LTE 5 MHz]

| Ch. | Freq.(MHz) | Measured Level | Measured Power | Ant. Factor | C.L | A.G. | H.P.F | D.F. | Pol. | Result |
|------|------------|-------------------|-------------------|-------------|------|-------|-------|------|------|---------|
| | | [dBuV/m] | [dBm] | [dB/m] | [dB] | [dB] | [dB] | [dB] | | [dBm] |
| Low | 3,865.00 | 58.45 | -36.75 | 29.637 | 4.09 | 44.60 | 0.19 | 1.96 | V | -45.478 |
| Mid. | 3,925.00 | 61.52 | -33.68 | 29.730 | 3.96 | 44.99 | -0.19 | 1.96 | V | -43.210 |
| High | 3,985.00 | 64.73 | -30.47 | 29.750 | 4.10 | 44.74 | 0.00 | 1.96 | V | -39.405 |

^{*} C.L.: Cable Loss / A.G.: Amp. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

[LTE 10 MHz]

| Ch. | Freq.(MHz) | Measured Level | Measured Power | Ant. Factor | C.L | A.G. | H.P.F | D.F. | Pol. | Result |
|------|------------|-------------------|-------------------|-------------|------|-------|-------|------|------|---------|
| | | [dBuV/m] | [dBm] | [dB/m] | [dB] | [dB] | [dB] | [dB] | | [dBm] |
| Low | 3,870.00 | 57.44 | -37.76 | 29.646 | 4.08 | 44.67 | 0.15 | 1.96 | V | -46.594 |
| Mid. | 3,925.00 | 59.61 | -35.59 | 29.730 | 3.96 | 44.99 | -0.19 | 1.96 | V | -45.120 |
| High | 3,980.00 | 62.82 | -32.38 | 29.750 | 4.12 | 44.70 | 0.07 | 1.96 | V | -41.180 |

^{*} C.L.: Cable Loss / A.G.: Amp. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

Notes:

- 1. Test datas were only the worst case.
- 2. We have done horizontal and vertical polarization in detecting antenna.

F-TP22-03 (Rev.00) FCC ID: U88GSTICELITE1943