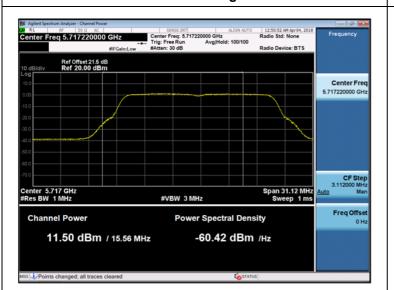


FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11a/n_HT20_Ant 0

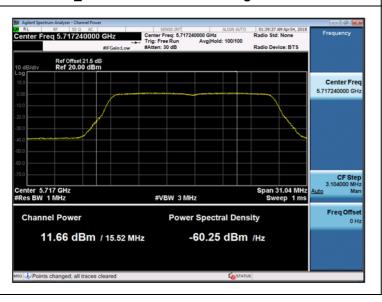
802.11a UNII 2C Band Average Power CH.144



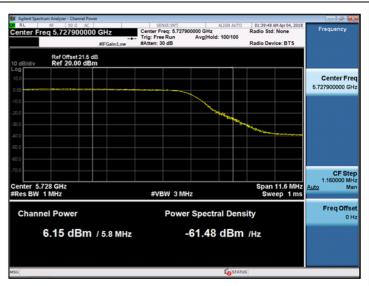
802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144



802.11n_HT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 1 / 495 **HCT CO.,LTD.**



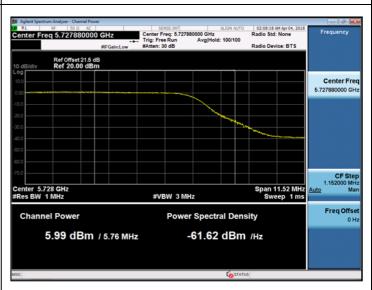
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11ac_VHT20_Ant 0

802.11ac_VHT20 UNII 2C Band Average Power CH.144

Space | Spectrum Analyser - Channel Power | Space | Miles |

802.11ac_VHT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 2 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 1

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 12.62 | 0.222 | 12.85 | 22.63 |
| 802.11n | 5720 | 144 | 12.10 | 0.218 | 12.32 | 22.63 |
| 802.11ac | | | 12.11 | 0.065 | 12.18 | 22.60 |

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 6.64 | 0.222 | 6.86 | 24.28 |
| 802.11n | 5720 | 144 | 6.53 | 0.218 | 6.75 | 24.26 |
| 802.11ac | | | 6.66 | 0.065 | 6.72 | 24.34 |

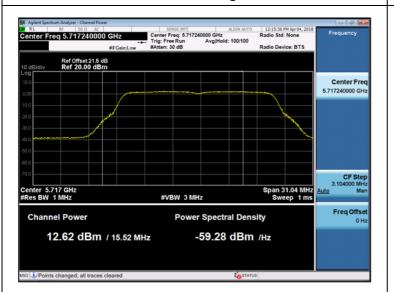
F-TP22-03 (Rev.00) 2 3 3 / 495 **HCT CO.,LTD.**



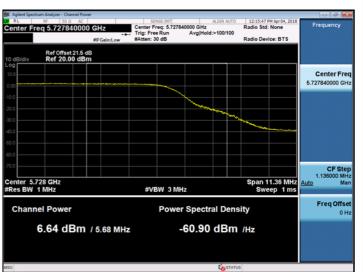
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11a/n_HT20_Ant 1

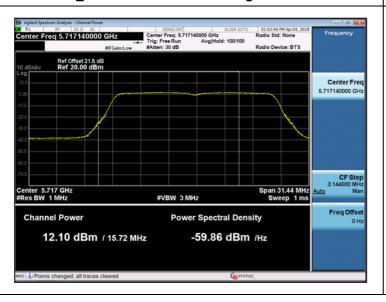
802.11a UNII 2C Band Average Power CH.144



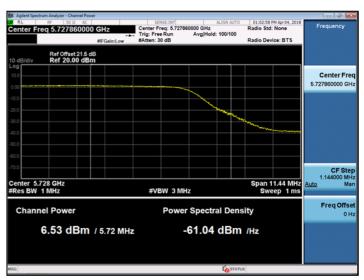
802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144



802.11n_HT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 4 / 495 **HCT CO.,LTD.**



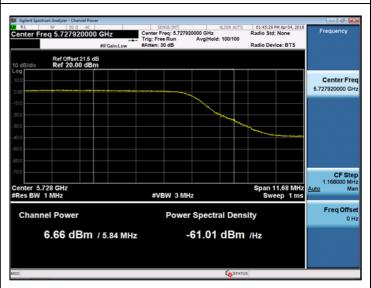
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11ac_VHT20_Ant 1

802.11ac_VHT20 UNII 2C Band Average Power CH.144

| Sale | Spectrum Analyter - Channel Power | Short Int | Short Int

802.11ac_VHT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 5 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 2

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 11.51 | 0.222 | 11.74 | 22.63 |
| 802.11n | 5720 | 144 | 11.34 | 0.218 | 11.56 | 22.62 |
| 802.11ac | | | 11.52 | 0.065 | 11.58 | 22.61 |

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 5.62 | 0.222 | 5.84 | 24.27 |
| 802.11n | 5720 | 144 | 5.90 | 0.218 | 6.12 | 24.28 |
| 802.11ac | | | 6.08 | 0.065 | 6.14 | 24.33 |

F-TP22-03 (Rev.00) 2 3 6 / 495 **HCT CO.,LTD.**



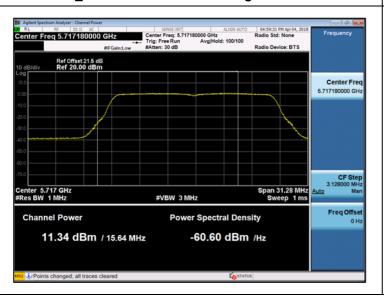
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11a/n_HT20_Ant 2

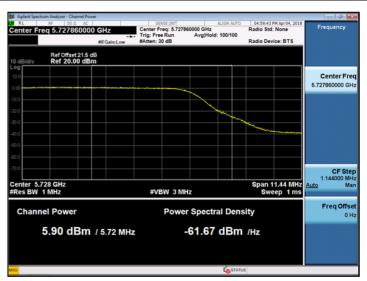
802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144



802.11n_HT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 7 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11ac_VHT20_Ant 2

802.11ac_VHT20 UNII 2C Band Average Power CH.144

| State | Spectrum Analyses - Channel Power | Spectrum Analyses -

802.11ac_VHT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 3 8 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 3

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 11.54 | 0.222 | 11.76 | 22.60 |
| 802.11n | 5720 | 144 | 11.66 | 0.218 | 11.88 | 22.62 |
| 802.11ac | | | 11.66 | 0.065 | 11.72 | 22.56 |

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11a | | | 5.57 | 0.222 | 5.79 | 24.35 |
| 802.11n | 5720 | 144 | 6.24 | 0.218 | 6.46 | 24.29 |
| 802.11ac | | | 6.15 | 0.065 | 6.21 | 24.44 |

F-TP22-03 (Rev.00) 2 3 9 / 495 **HCT CO.,LTD.**



Channel Power

11.54 dBm / 15.52 MHz

Report No.: HCT-RF-1804-FC050-R3

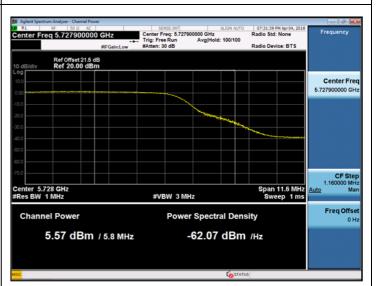
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11a/n_HT20_Ant 3

Power Spectral Density

-60.37 dBm /Hz

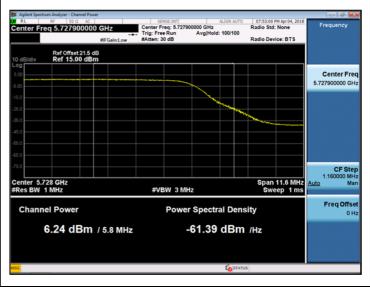
802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144



802.11n_HT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 4 0 / 495 **HCT CO.,LTD.**



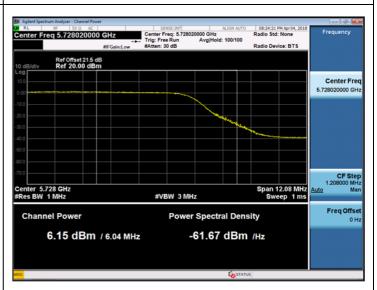
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11ac_VHT20_Ant 3

802.11ac_VHT20 UNII 2C Band Average Power CH.144

| Ref Offset 21.5 dB | Ref 20.00 dBm | Ref 21.5 dB | Ref 20.00 dBm | Ref 20.00

802.11ac_VHT20 UNII 3 Band Average Power CH.144



F-TP22-03 (Rev.00) 2 4 1 / 495 **HCT CO.,LTD.**



■ Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3 Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|----------------|--------------------|----------------|--------------------------------------|----------------|
| 802.11a | | | 18.05 | 22.60 |
| 802.11n | 5720 | 144 | 17.94 | 22.60 |
| 802.11ac | | | 17.80 | 22.56 |

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|----------------|--------------------|----------------|--------------------------------------|----------------|
| 802.11a | | | 12.09 | 24.27 |
| 802.11n | 5720 | 144 | 12.45 | 24.26 |
| 802.11ac | | | 12.31 | 24.29 |

Note: The limit on maximum conducted output power in each U-NII band is computed based on the portion of the emission bandwidth contained within that band.

F-TP22-03 (Rev.00) 2 4 2 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 0

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5740 | 442 | 12.78 | 0.433 | 13.22 | 23.39 |
| 802.11ac | 5710 | 142 | 12.97 | 0.130 | 13.10 | 23.39 |

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | E740 | 142 | 2.67 | 0.433 | 3.10 | 21.05 |
| 802.11ac | 5710 | 142 | 2.84 | 0.130 | 2.97 | 21.06 |

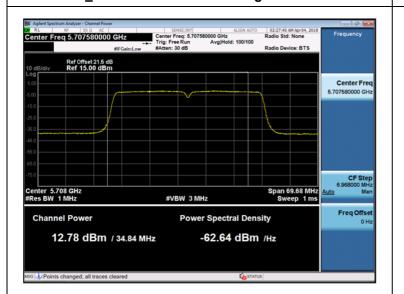
F-TP22-03 (Rev.00) 2 4 3 / 495 **HCT CO.,LTD.**



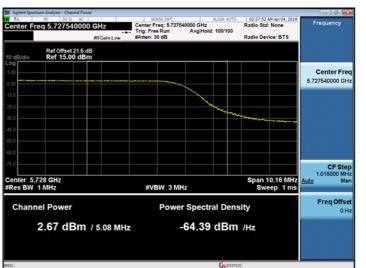
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 0

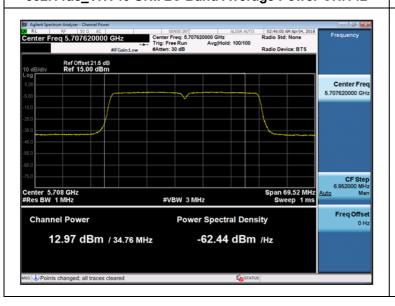
802.11n_HT40 UNII 2C Band Average Power CH.142



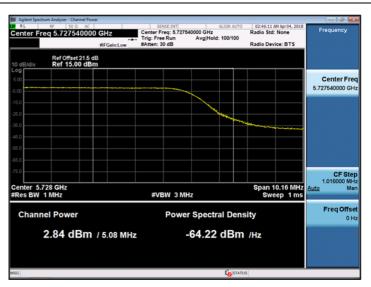
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



F-TP22-03 (Rev.00) 2 4 4 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 1

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 142 | 13.56 | 0.433 | 13.99 | 23.38 |
| 802.11ac | | | 13.54 | 0.130 | 13.67 | 23.38 |

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 142 | 3.49 | 0.433 | 3.92 | 21.11 |
| 802.11ac | 5/10 | 142 | 3.39 | 0.130 | 3.52 | 21.11 |

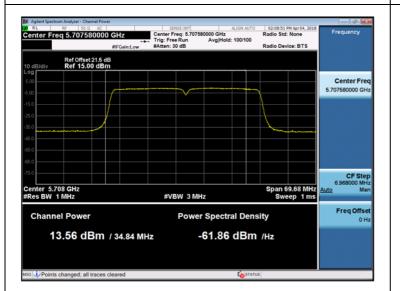
F-TP22-03 (Rev.00) 2 4 5 / 495 **HCT CO.,LTD.**



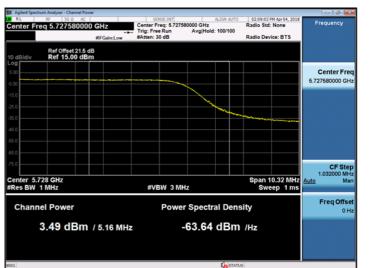
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 1

802.11n_HT40 UNII 2C Band Average Power CH.142



802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



F-TP22-03 (Rev.00) 2 4 6 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 2

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 440 | 12.66 | 0.433 | 13.09 | 23.38 |
| 802.11ac | | 142 | 13.02 | 0.130 | 13.15 | 23.38 |

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 142 | 2.69 | 0.433 | 3.12 | 21.12 |
| 802.11ac | | 142 | 2.93 | 0.130 | 3.06 | 21.10 |

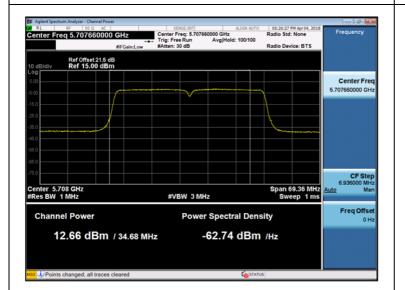
F-TP22-03 (Rev.00) 2 4 7 / 495 **HCT CO.,LTD.**



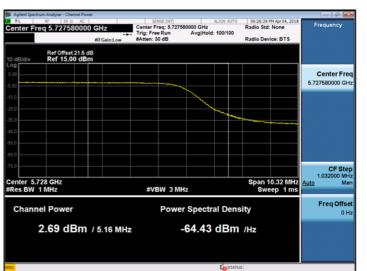
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 2

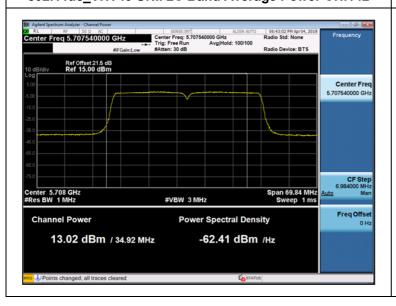
802.11n_HT40 UNII 2C Band Average Power CH.142



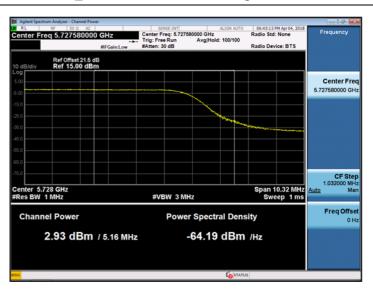
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



F-TP22-03 (Rev.00) 2 4 8 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_Ant 3

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 440 | 13.05 | 0.433 | 13.48 | 23.39 |
| 802.11ac | | 142 | 13.18 | 0.130 | 13.31 | 23.38 |

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

| Mode | Frequency [MHz] | Channel No. | Measured Power (dBm) | Duty Cycle Factor (dB) | Measured Power(dBm) + Duty Cycle Factor(dB) | Limit (dBm) |
|----------|--------------------|----------------|----------------------------|---------------------------------|---------------------------------------------|----------------|
| 802.11n | 5710 | 142 | 3.88 | 0.433 | 4.31 | 21.06 |
| 802.11ac | | | 3.09 | 0.130 | 3.23 | 21.10 |

F-TP22-03 (Rev.00) 2 4 9 / 495 **HCT CO.,LTD.**



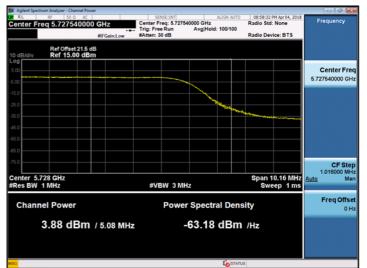
FCC ID: WQTVM3000G

■Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 3

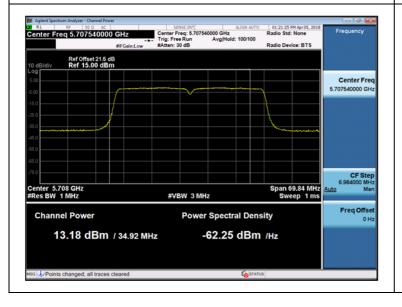
802.11n_HT40 UNII 2C Band Average Power CH.142



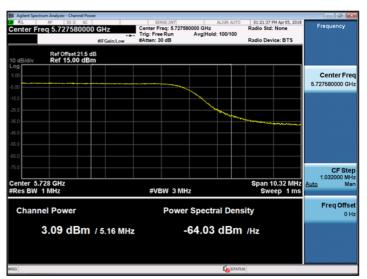
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



F-TP22-03 (Rev.00) 2 5 0 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

■Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3 Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 & 2 & 3 | Limit (dBm) |
|----------------|--------------------|----------------|--------------------------------------|----------------|
| 802.11n | 5740 | 442 | 19.47 | 23.38 |
| 802.11ac | 5710 | 142 | 19.33 | 23.38 |

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

| Mode (MIMO) | Frequency [MHz] | Channel No. | Sum Power of Ant.0 & 1 | Limit (dBm) |
|----------------|--------------------|----------------|---------------------------|----------------|
| 802.11n | E740 | 142 | 9.65 | 21.05 |
| 802.11ac | 5710 | 142 | 9.22 | 21.06 |

Note: The limit on maximum conducted output power in each U-NII band is computed based on the portion of the emission bandwidth contained within that band.

F-TP22-03 (Rev.00) 2 5 1 / 495 **HCT CO.,LTD.**