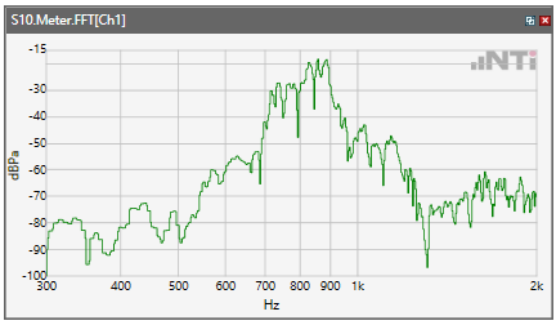
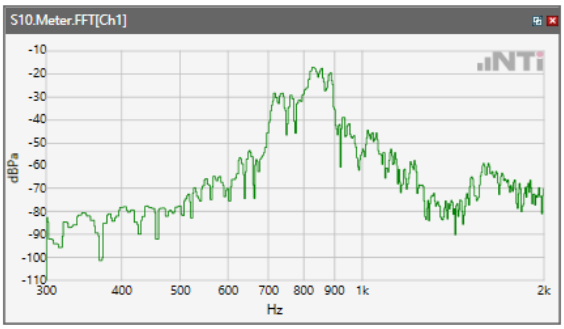
Receive path - distortion and noise 800Hz WB&NB

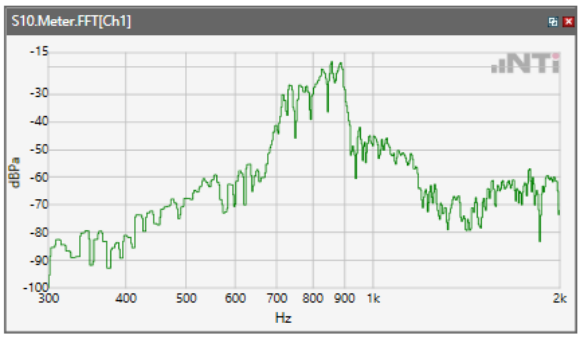
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



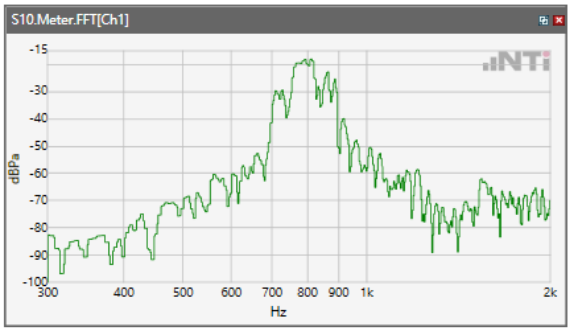
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



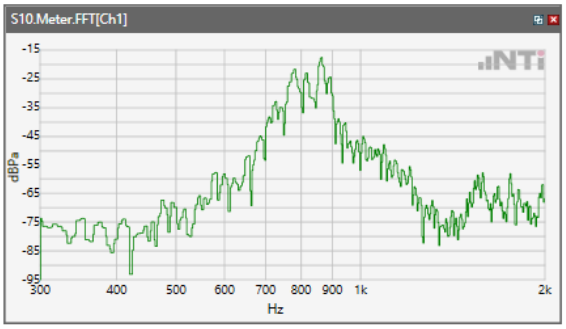
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



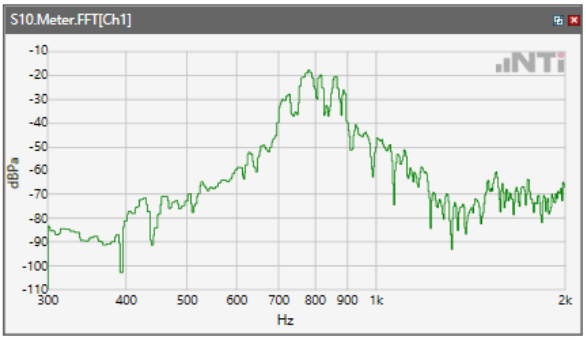
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



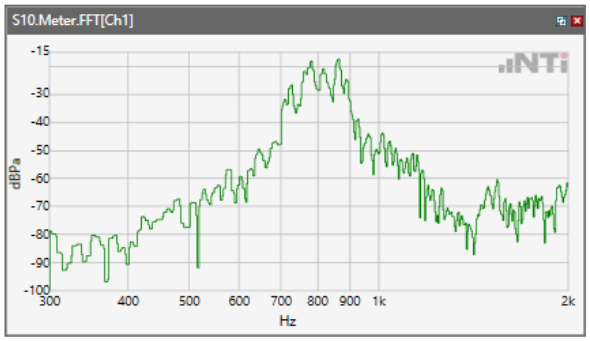
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



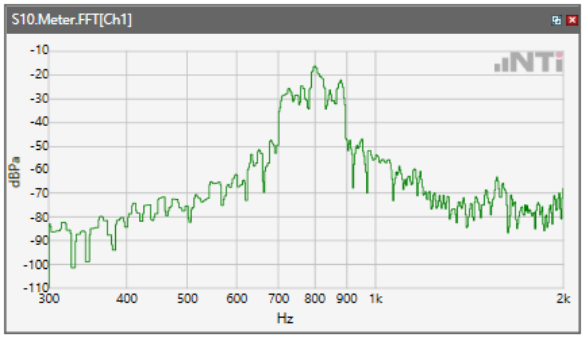
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



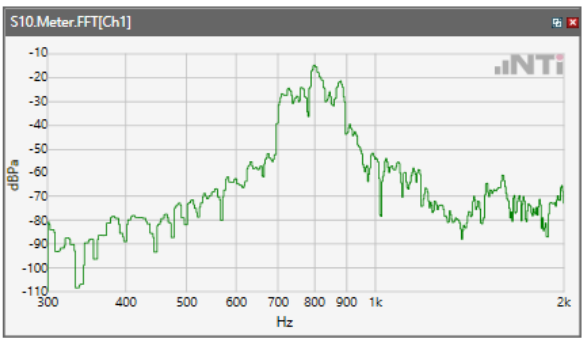
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25.



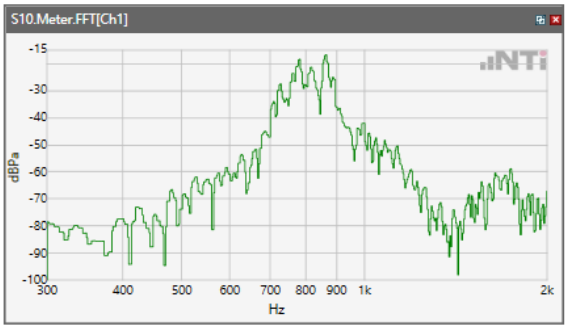
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



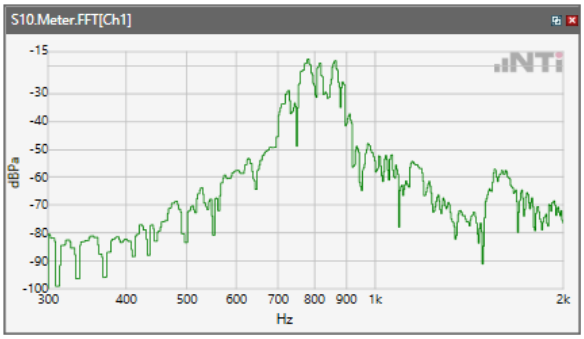
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



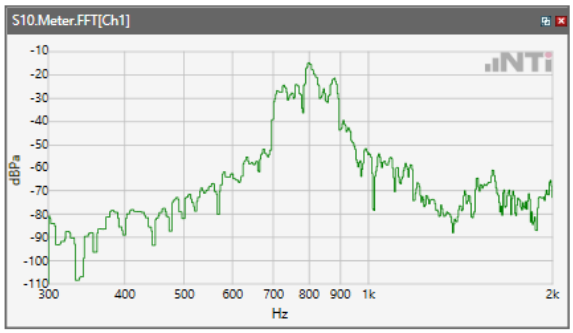
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

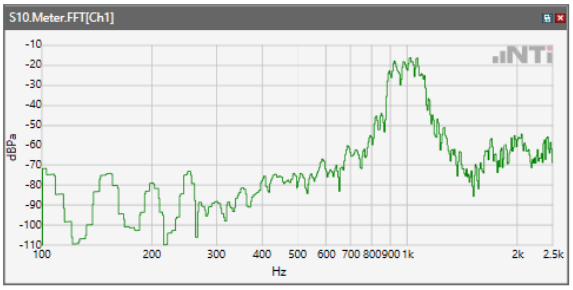


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

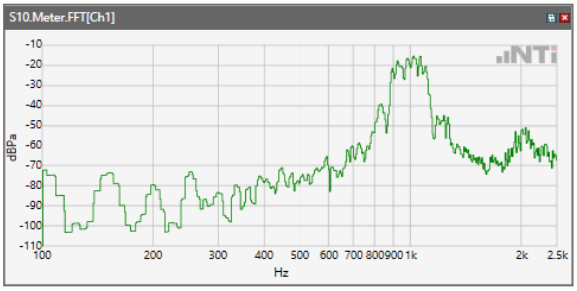


Receive path - distortion and noise 1000Hz WB&NB

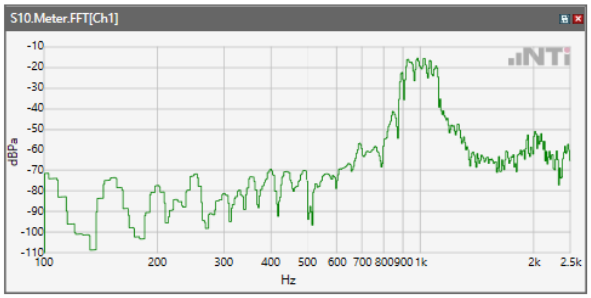
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



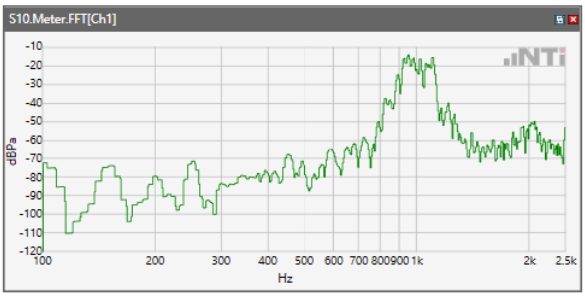
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



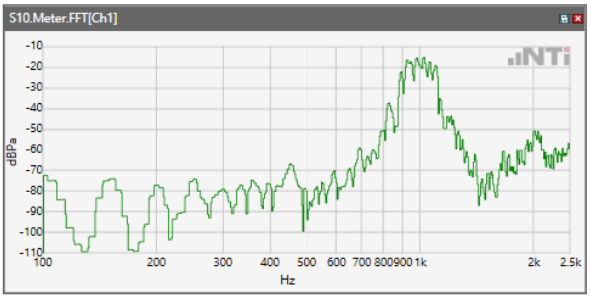
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



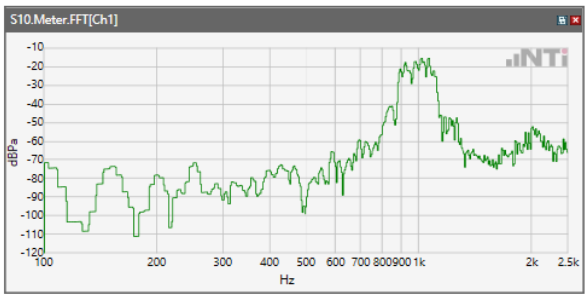
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



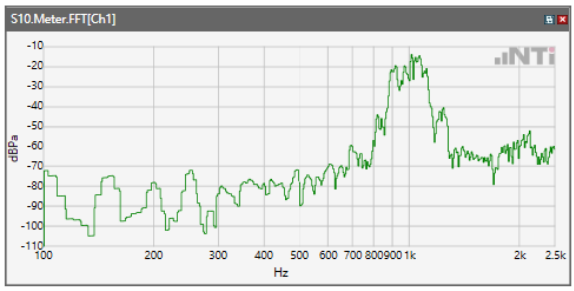
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



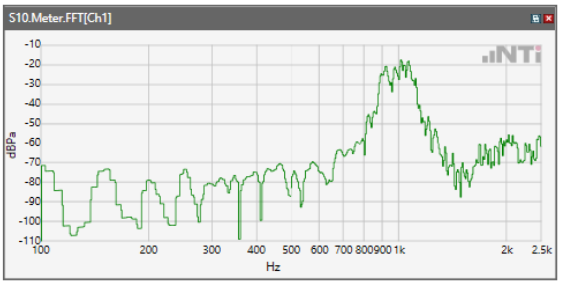
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



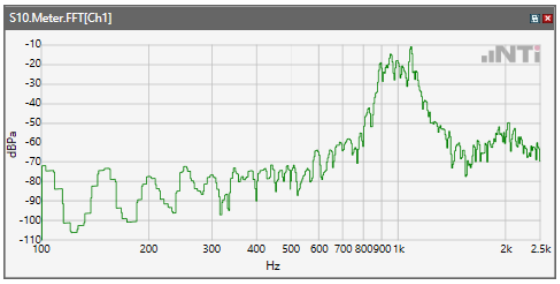
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



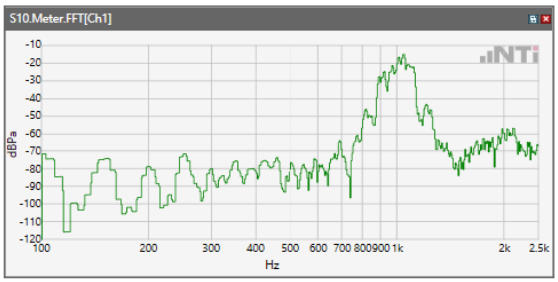
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



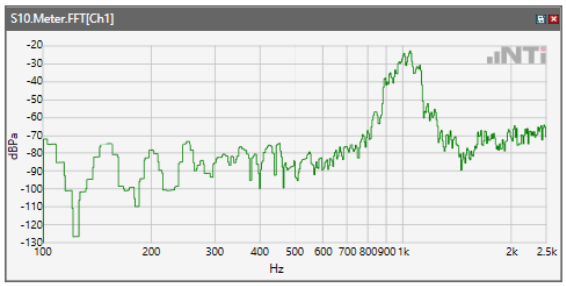
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



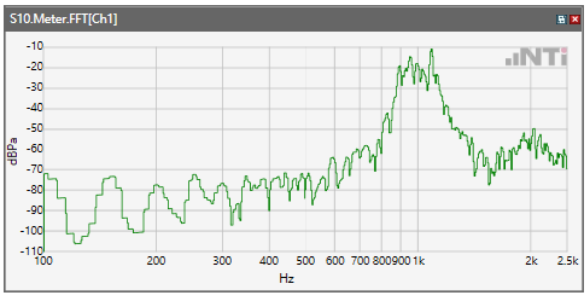
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

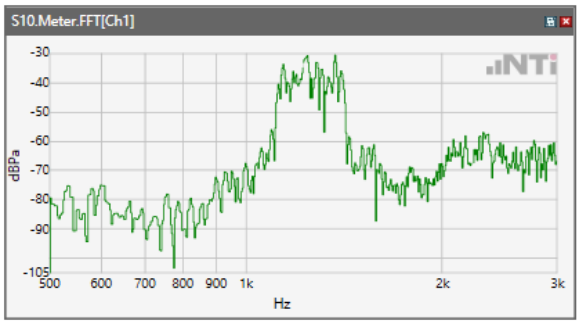


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

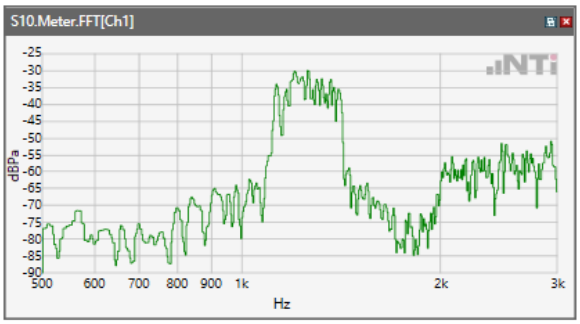


Receive path - distortion and noise 1250Hz WB&NB

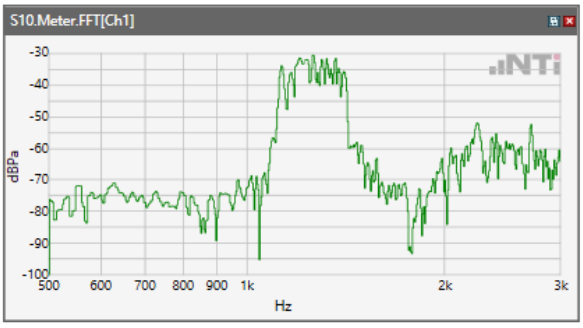
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



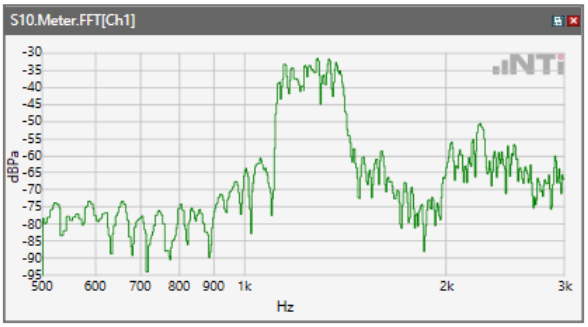
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



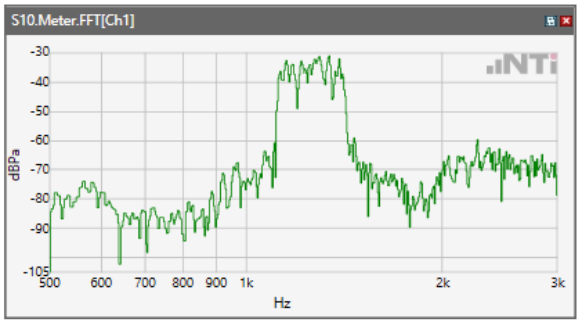
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



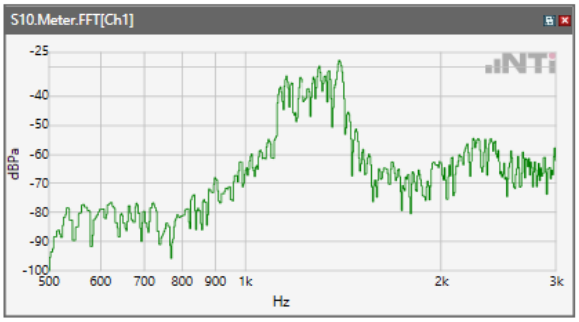
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



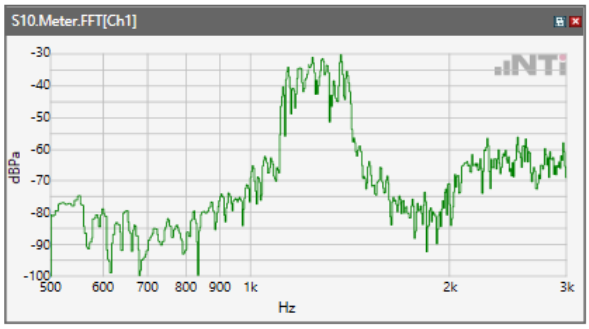
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



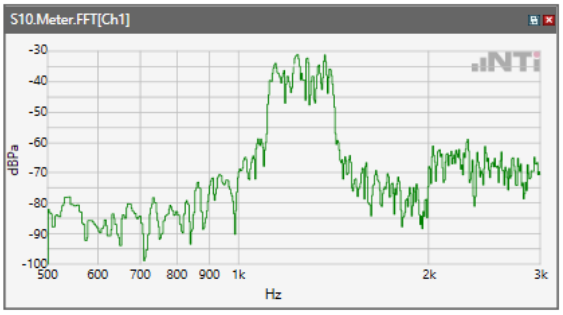
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



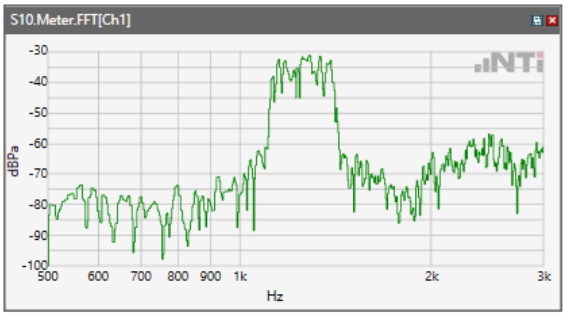
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25..



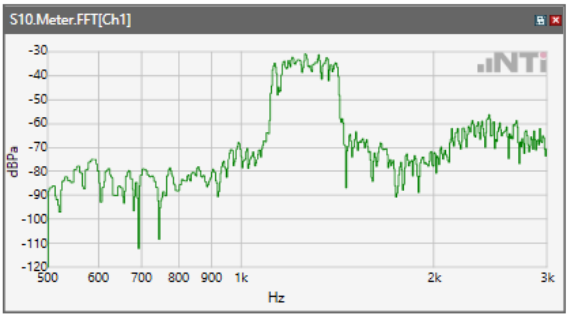
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



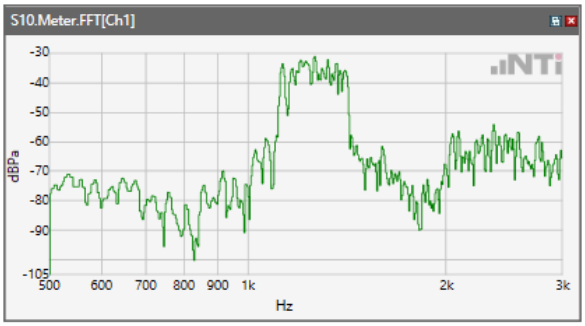
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



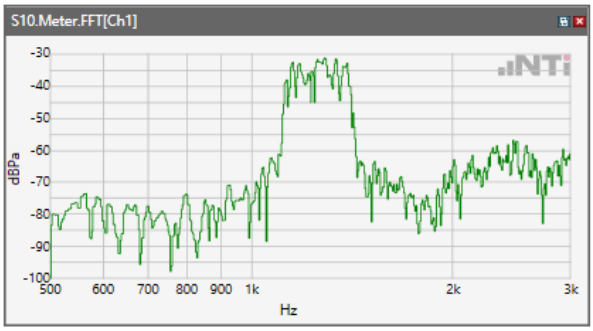
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

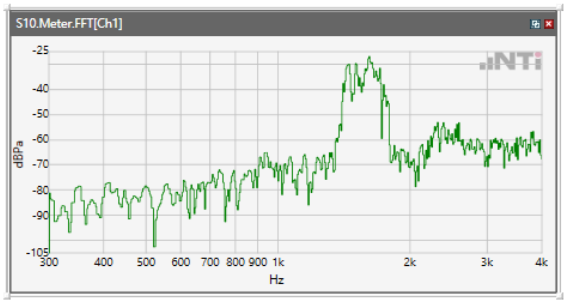


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

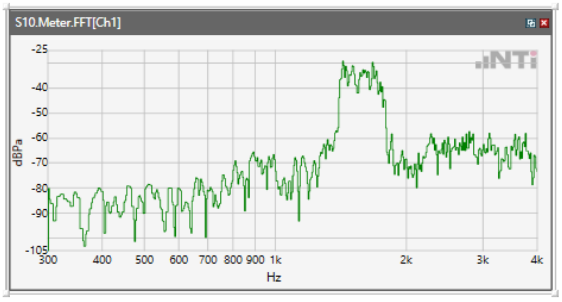


Receive path - distortion and noise 1600Hz WB&NB

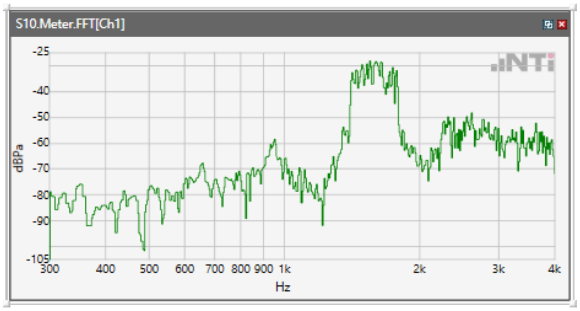
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



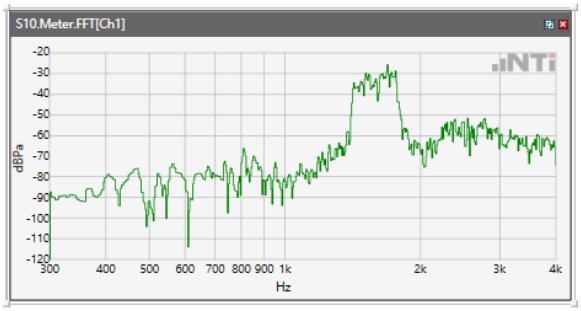
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



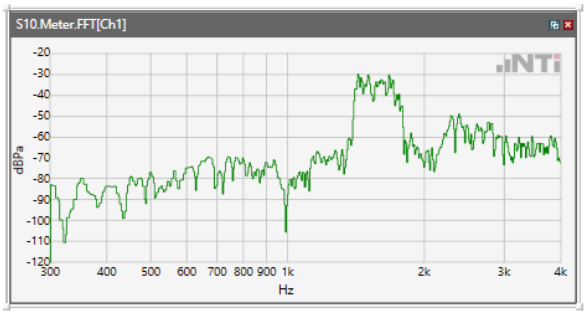
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



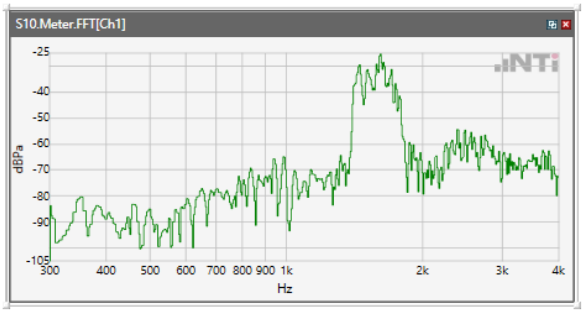
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



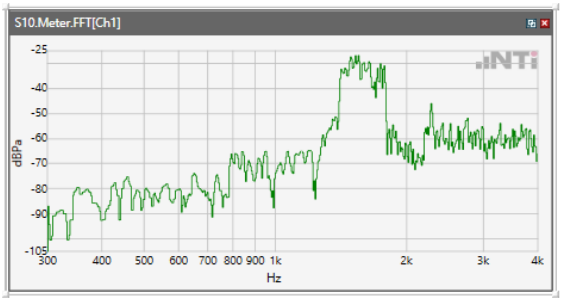
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



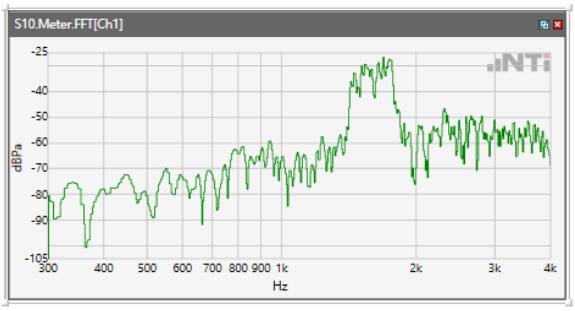
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



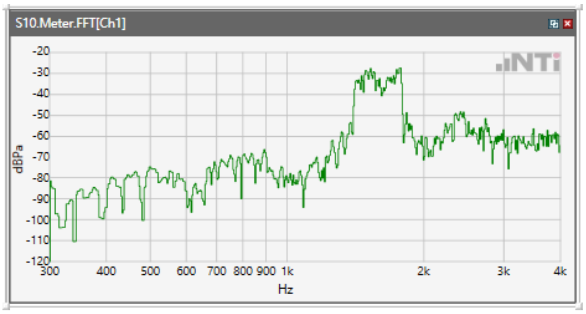
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25.



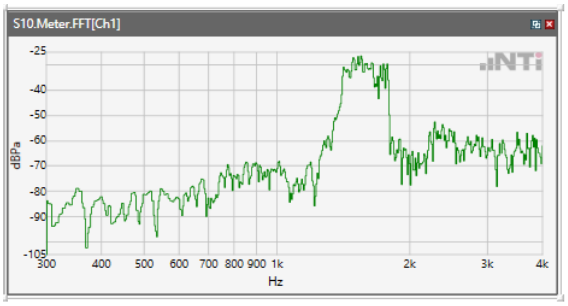
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



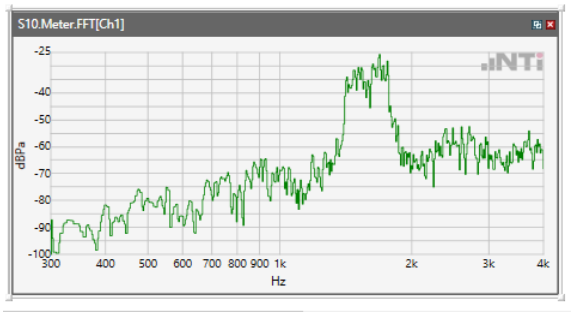
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



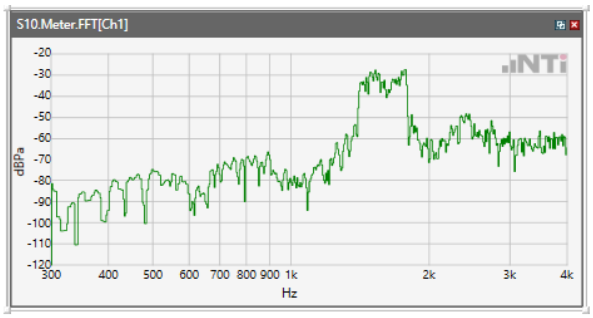
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

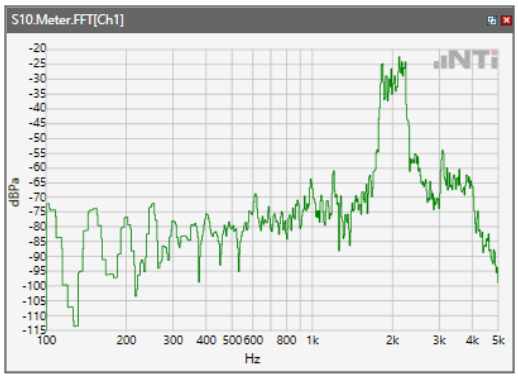


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

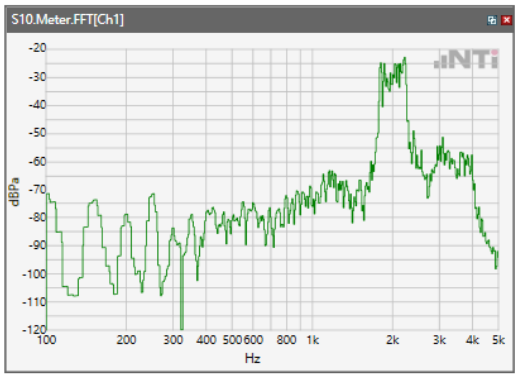


Receive path - distortion and noise 2000Hz WB&NB

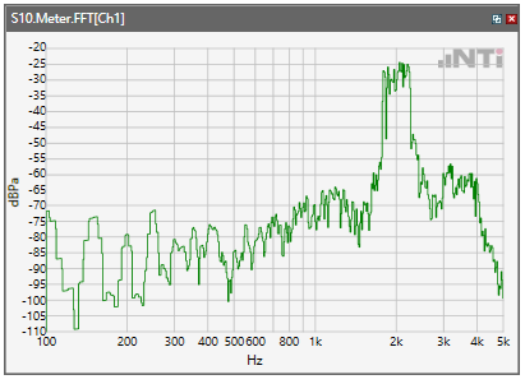
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



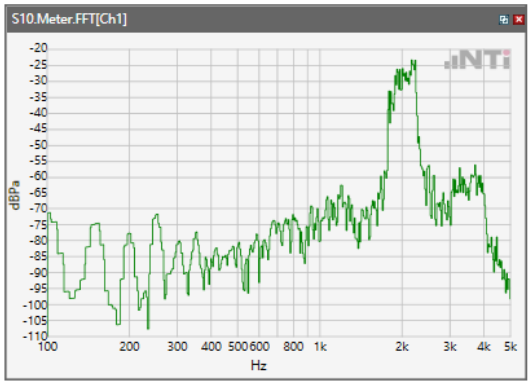
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



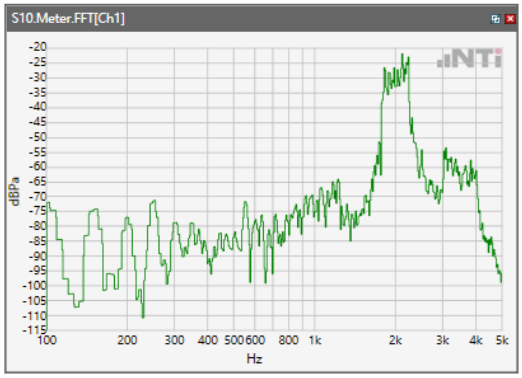
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



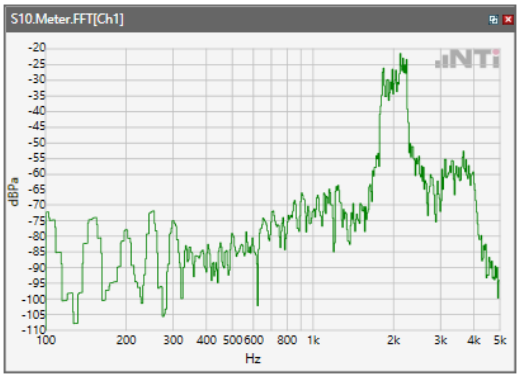
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



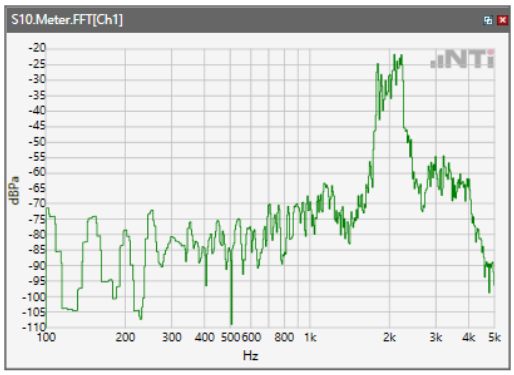
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



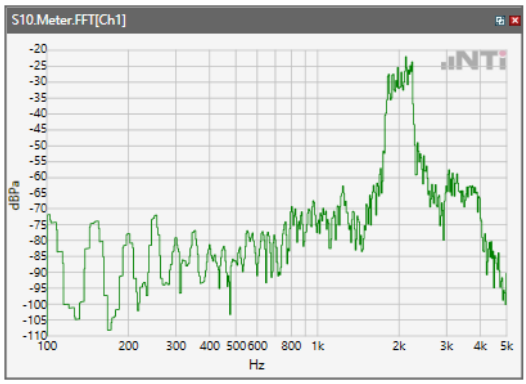
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



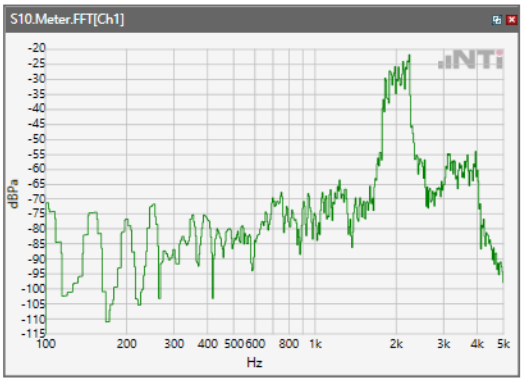
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



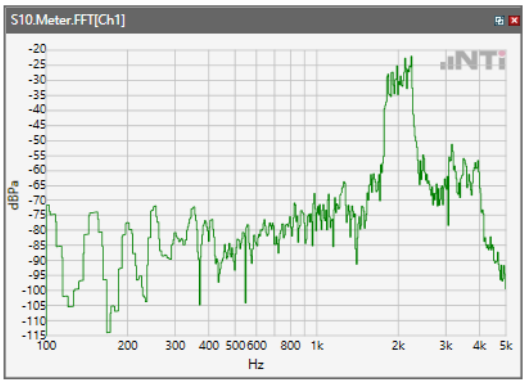
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



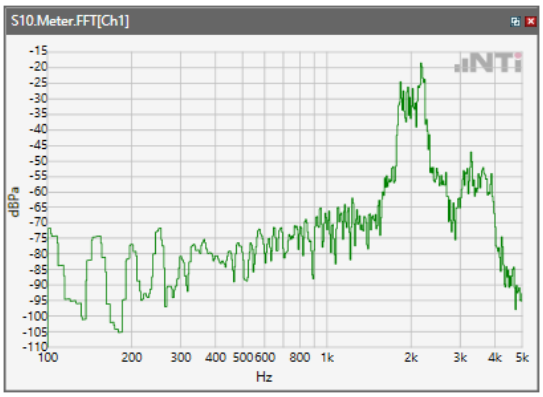
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



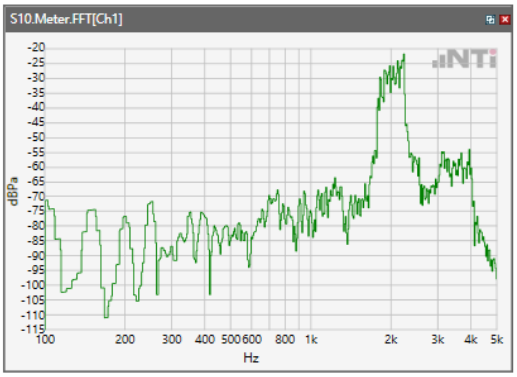
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

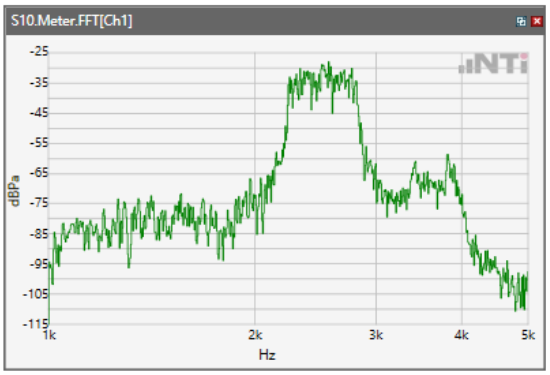


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

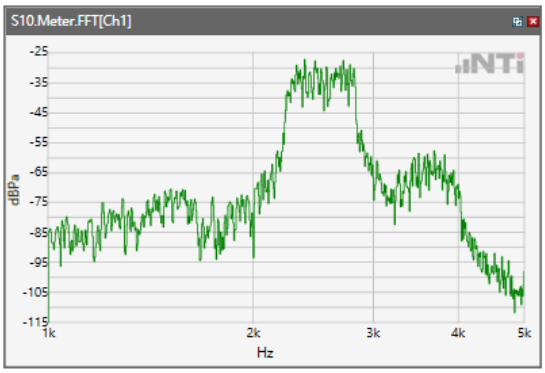


Receive path - distortion and noise 2500Hz WB&NB

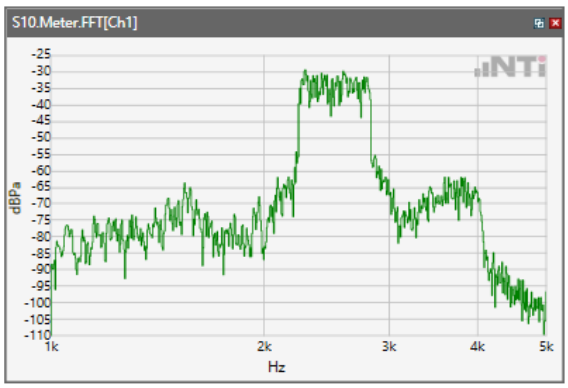
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



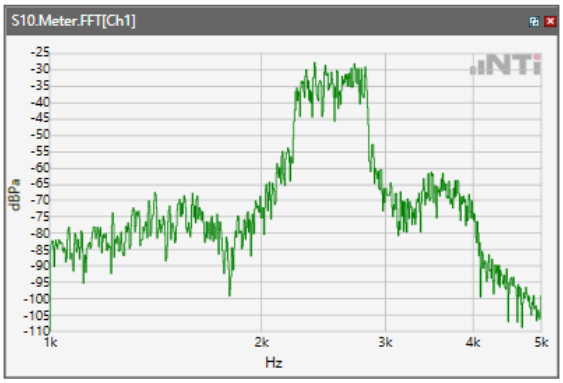
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



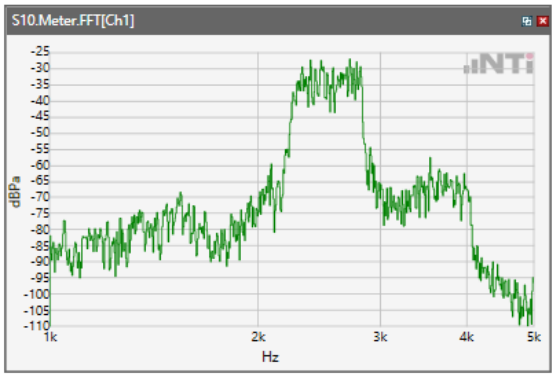
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



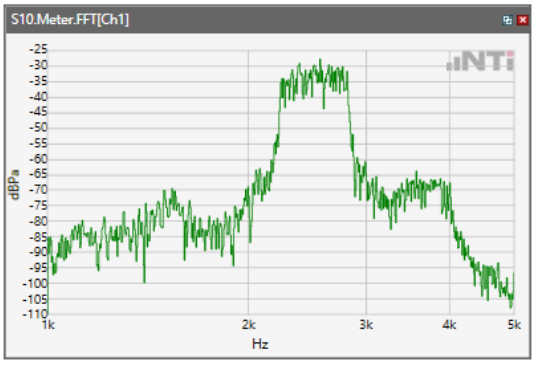
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



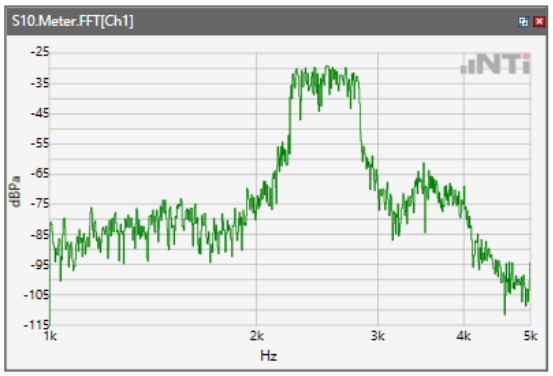
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



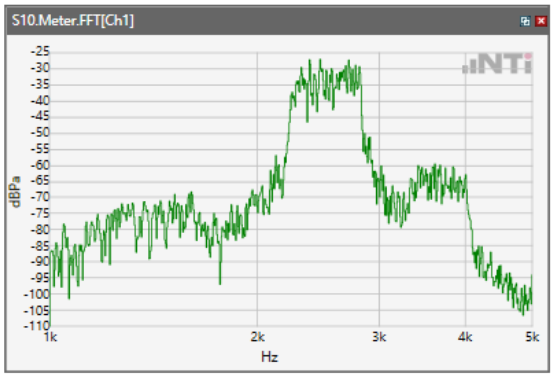
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12.



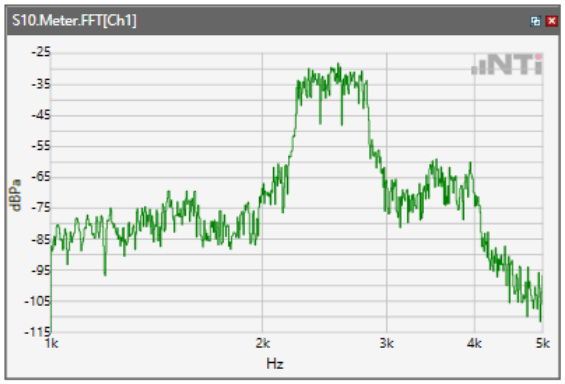
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25..



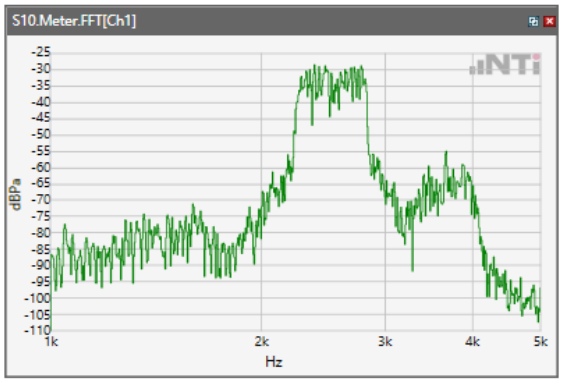
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



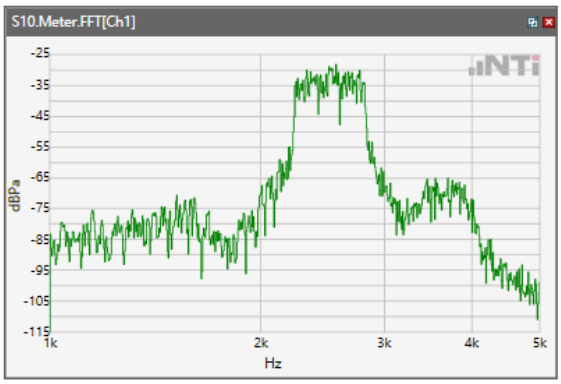
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



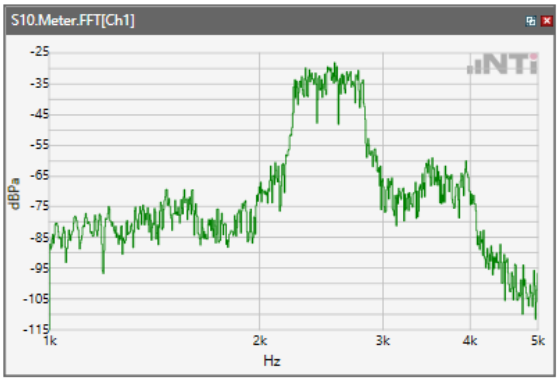
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

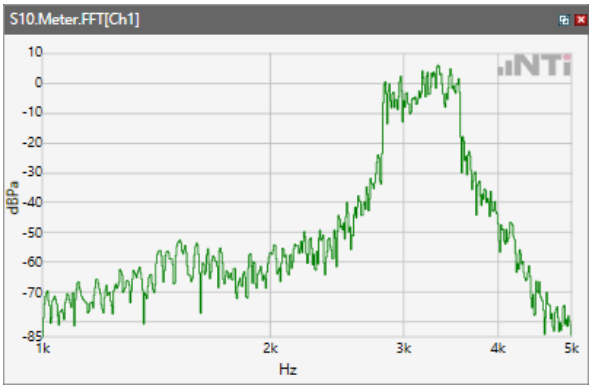


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

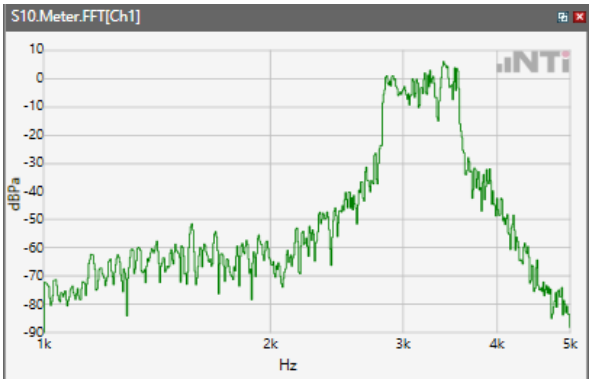


Receive path - distortion and noise 3150Hz WB&NB

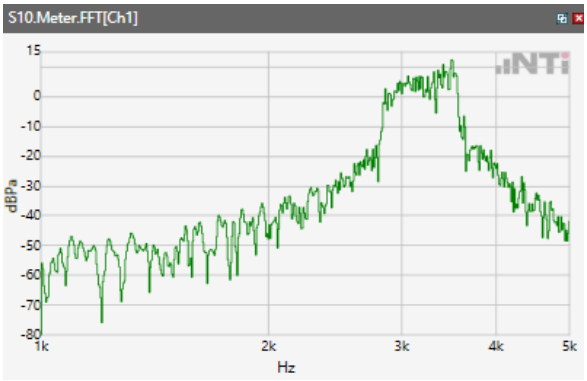
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



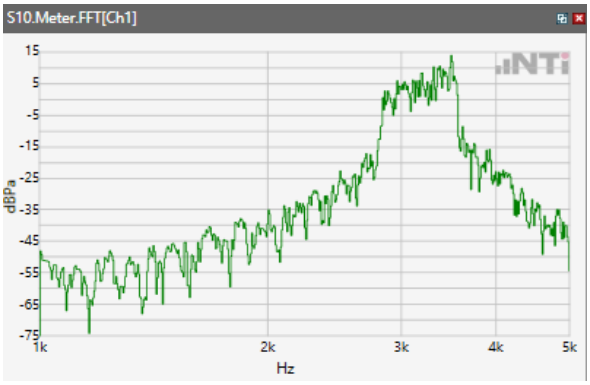
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



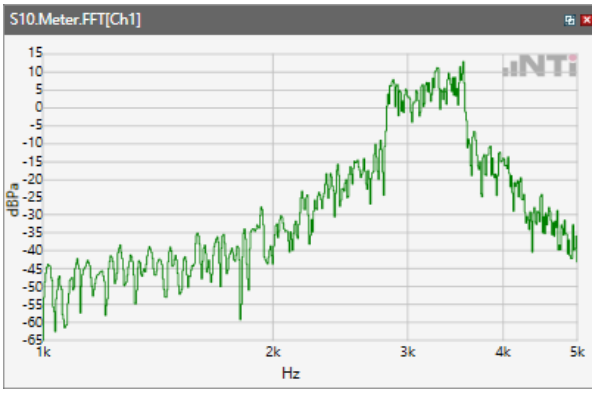
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



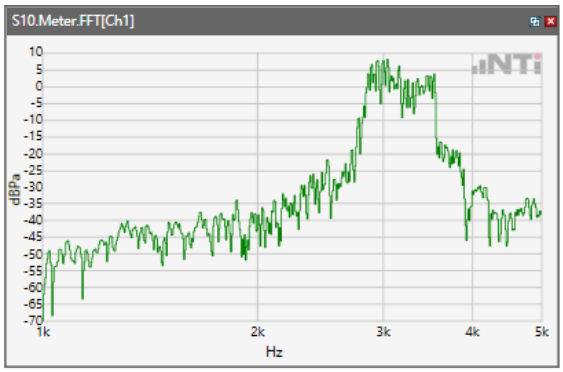
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



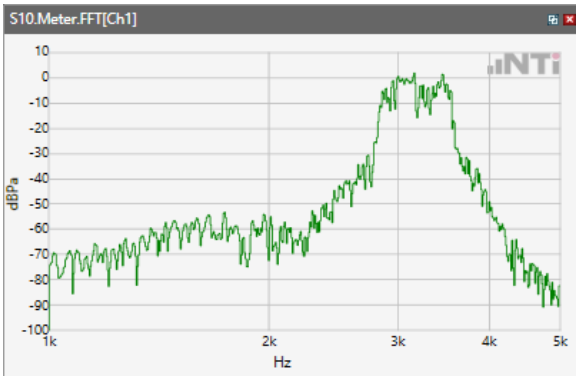
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



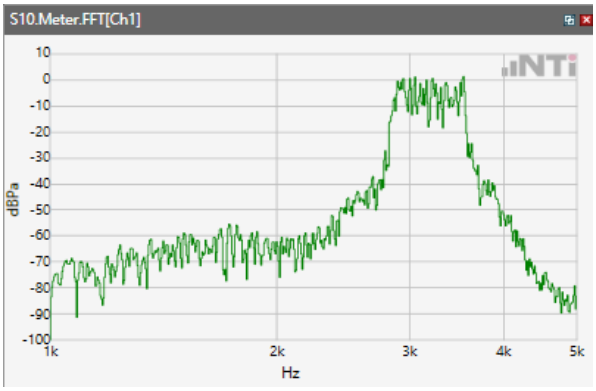
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



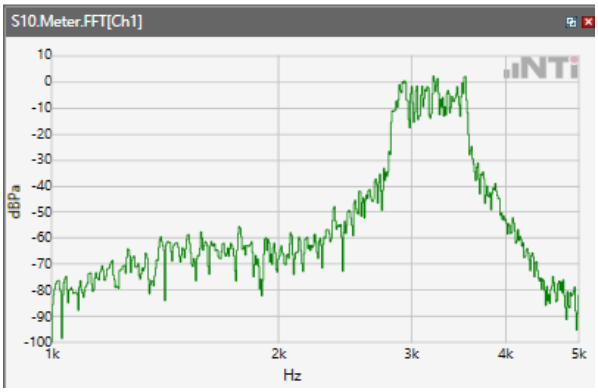
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



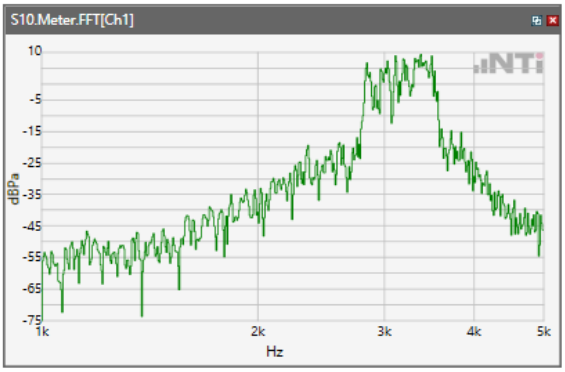
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 26..



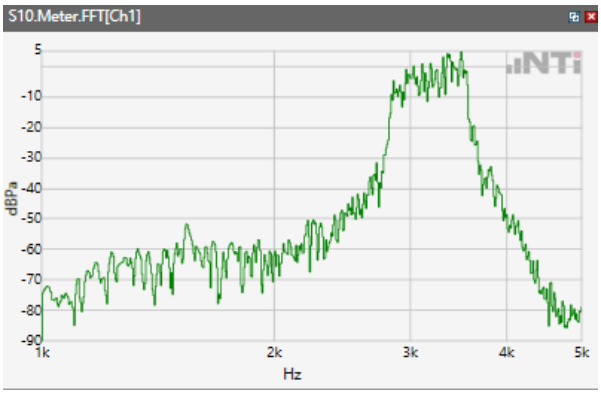
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 41.



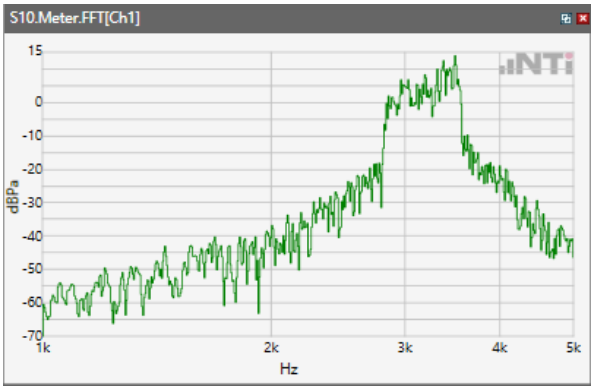
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

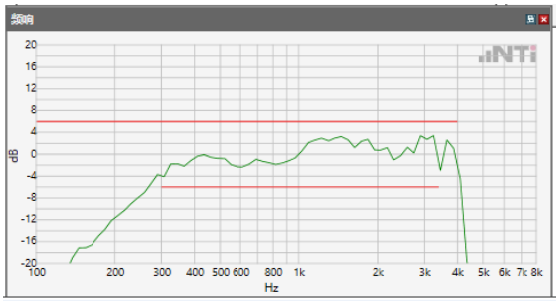


5.2 Receive path – distortion and noise

The distortion and noise test results data are referred to Annex C.

5.3 Receive Acoustic Frequency response Performance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \GSM 850



Absolute minimal distance

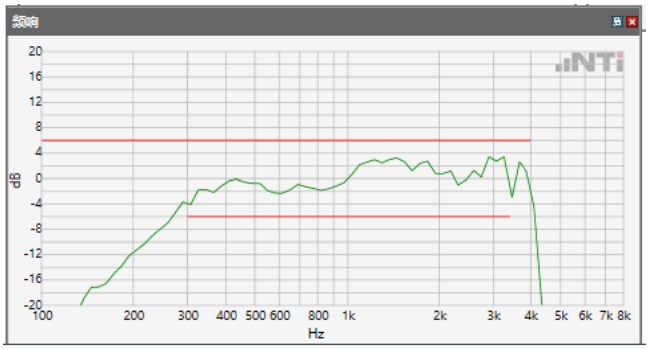
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \GSM 1900



Absolute minimal distance

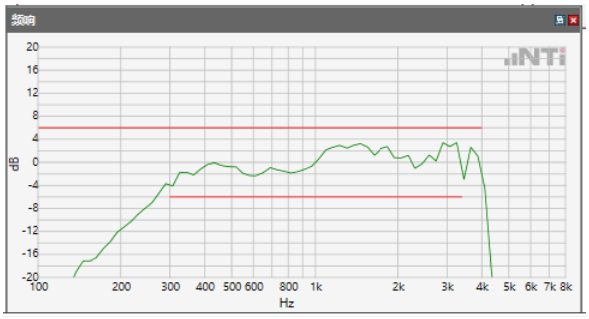
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \WCDMA Band II



Absolute minimal distance

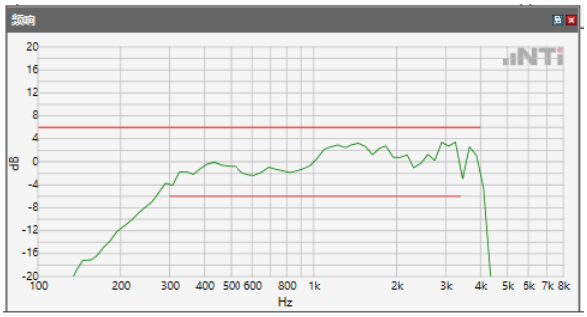
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \ WCDMA Band IV



Absolute minimal distance

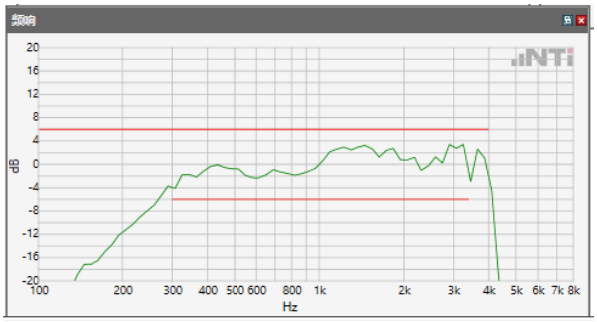
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \ WCDMA Band V



Absolute minimal distance

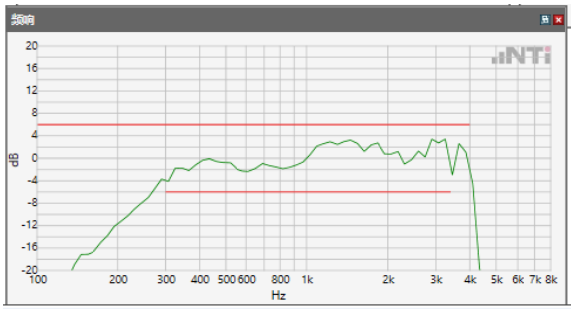
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 12



Absolute minimal distance

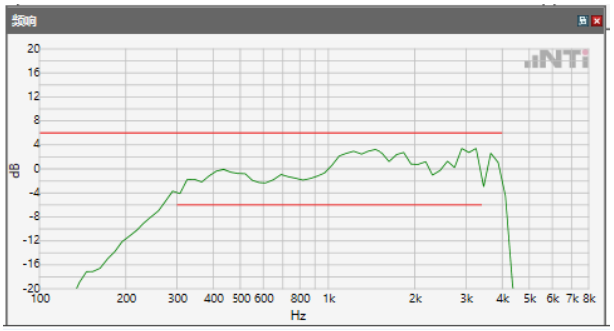
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 25



Absolute minimal distance

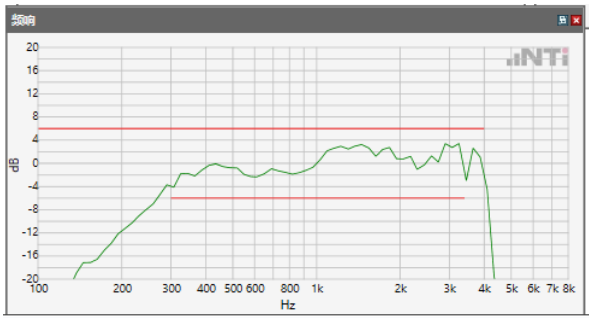
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \ LTE Band 26



Absolute minimal distance

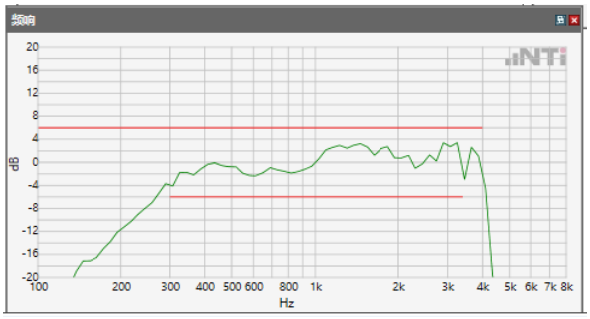
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 41



Absolute minimal distance

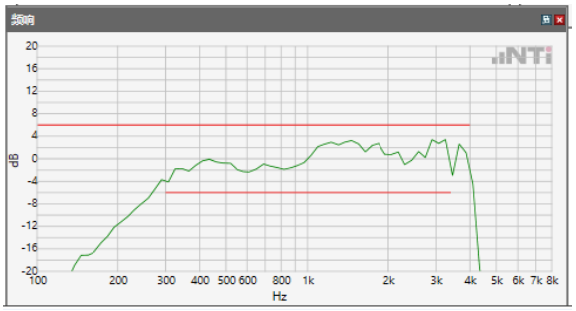
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \ LTE Band 66



Absolute minimal distance

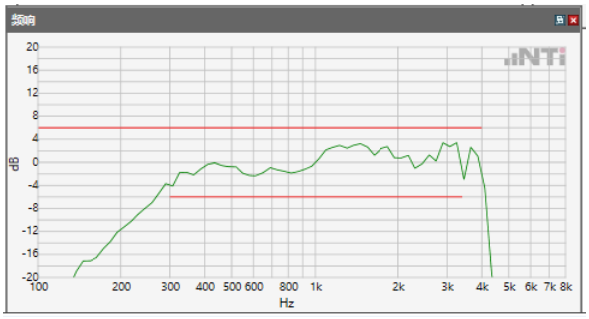
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 71



Absolute minimal distance

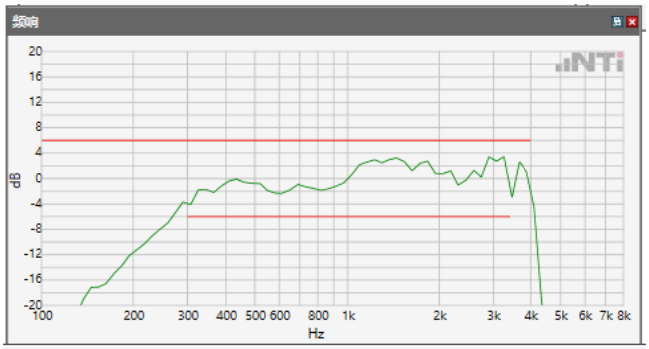
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \WLAN 2.4GHz



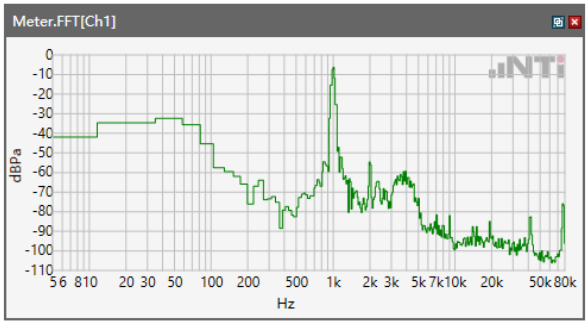
Absolute minimal distance

OK

OK

5.1 Receive Volume Control Performance 2N---WB

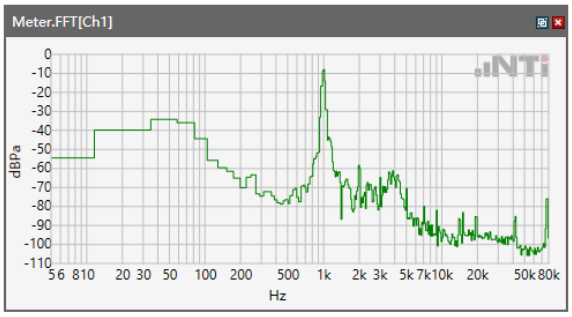
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\GSM 850



Speech Level RCV: 84.65 dB[SPL]

Calculated Value: 14.65 dB Ok

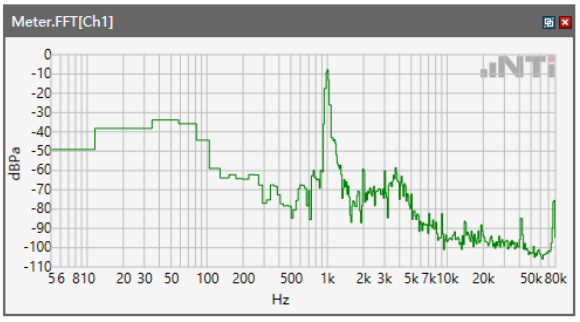
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\GSM 1900



Speech Level RCV: 84.74 dB[SPL]

Calculated Value: 14.74 dB Ok

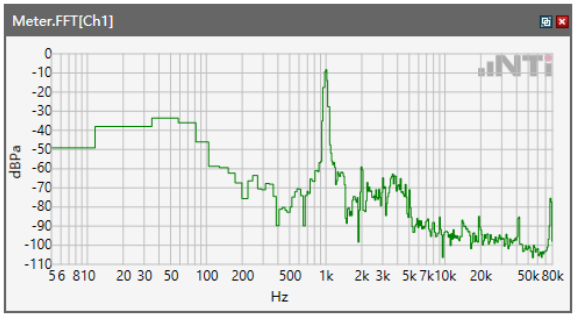
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\WCDMA Band II



Speech Level RCV: 87.12 dB[SPL]

Calculated Value: 17.12 dB Ok

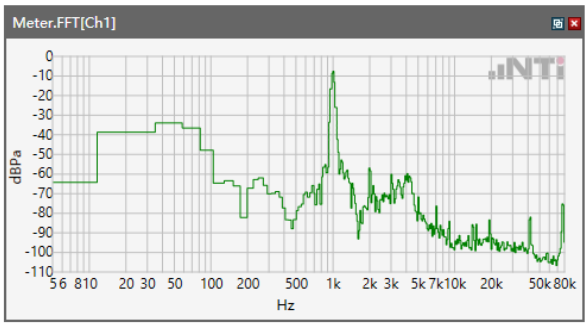
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\WCDMA Band IV



Speech Level RCV: 87.08 dB[SPL]

Calculated Value: 17.08 dB Ok

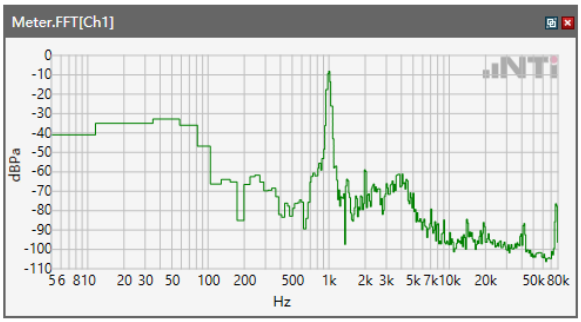
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\WCDMA Band V



Speech Level RCV: 86.93 dB[SPL]

Calculated Value: 16.93 dB Ok

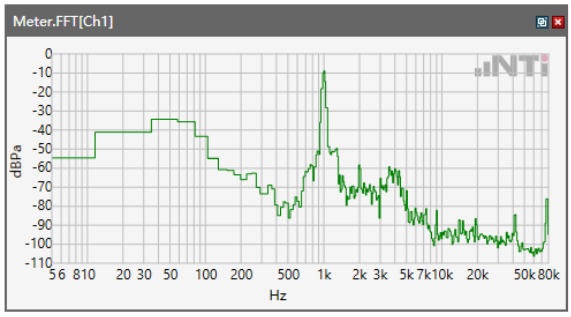
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 12



Speech Level RCV: 83.85 dB[SPL]

Calculated Value: 13.85 dB Ok

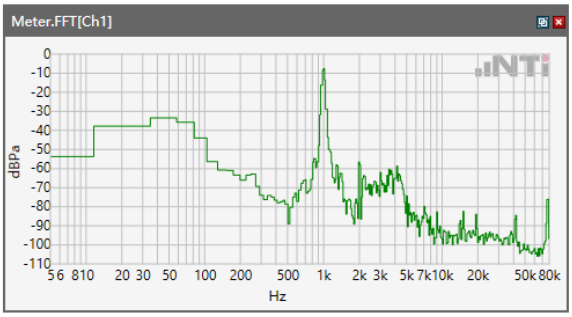
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 25



Speech Level RCV: 86.61 dB[SPL]

Calculated Value: 16.61 dB Ok

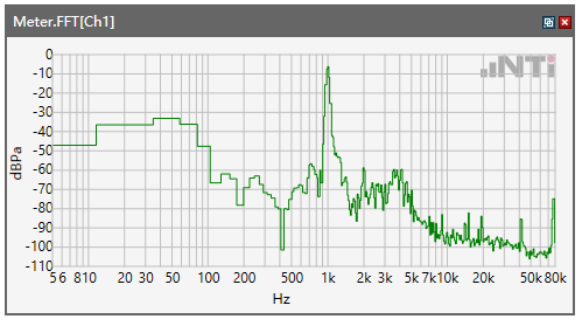
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ LTE Band 26



Speech Level RCV: 83.88 dB[SPL]

Calculated Value: 13.88 dB Ok

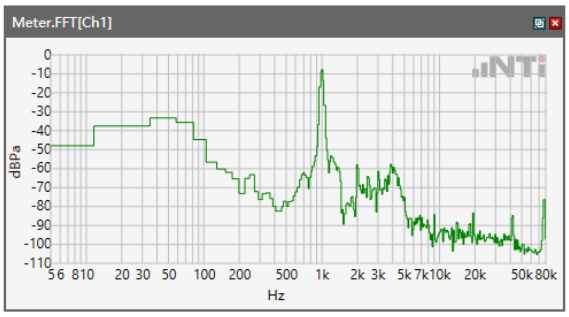
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ LTE Band 41



Speech Level RCV: 85.90 dB[SPL]

Calculated Value: 85.90 dB Ok

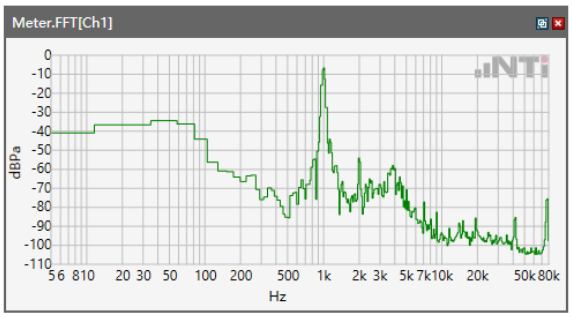
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ LTE Band 66



Speech Level RCV: 86.05 dB[SPL]

Calculated Value: 16.05 dB Ok

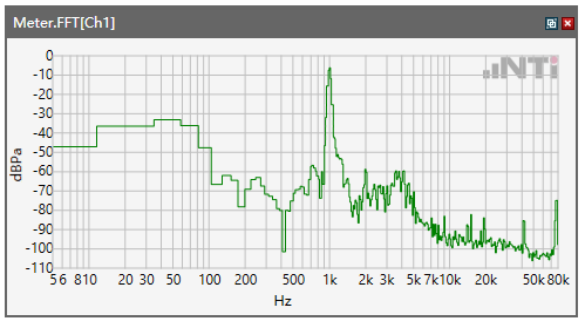
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ LTE Band 71



Speech Level RCV: 84.95 dB[SPL]

Calculated Value: 14.95 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\WLAN 2.4GHz

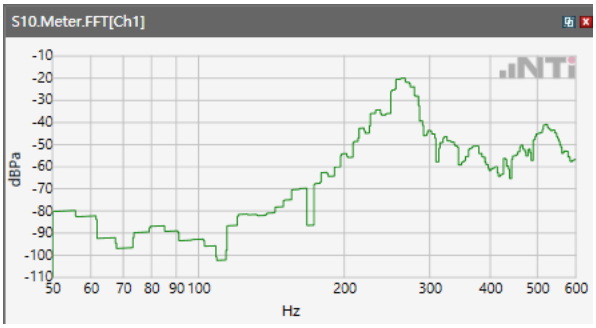


Speech Level RCV: 86.25 dB[SPL]

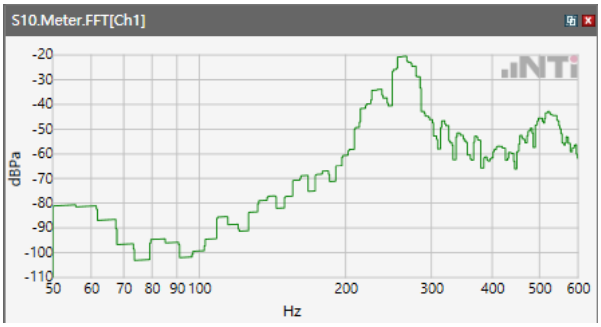
Calculated Value: 16.25 dB Ok

Receive path - distortion and noise 250 WB only

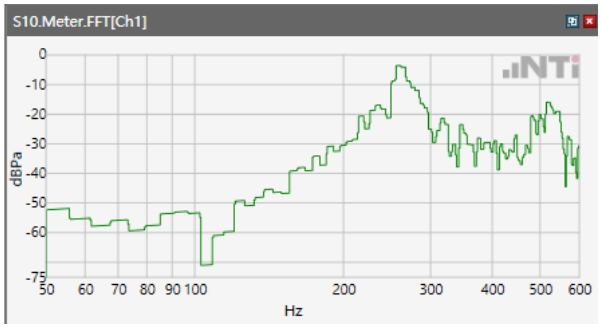
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



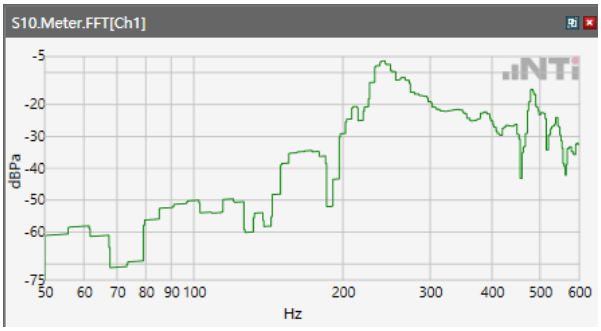
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



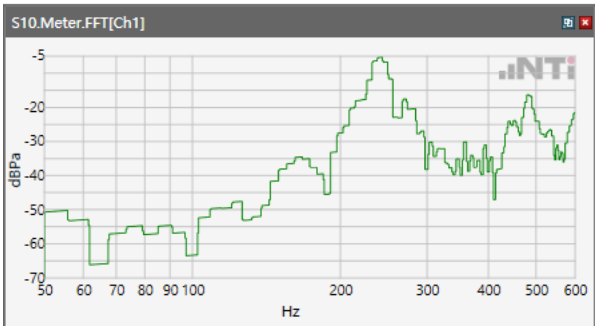
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



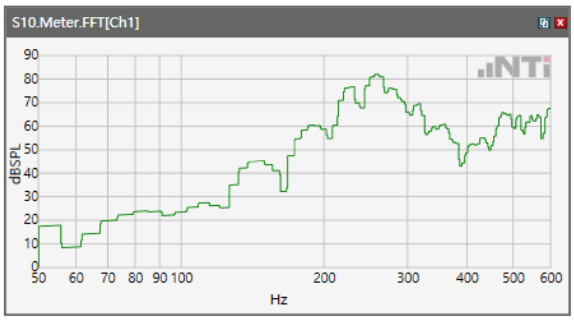
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



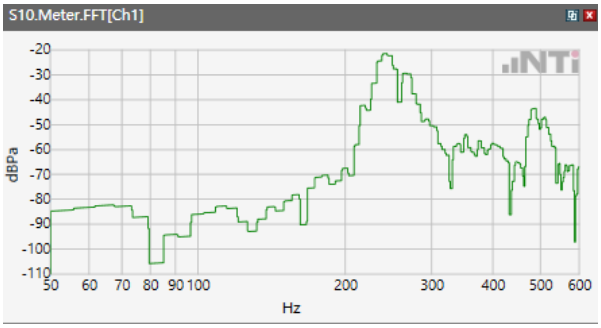
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



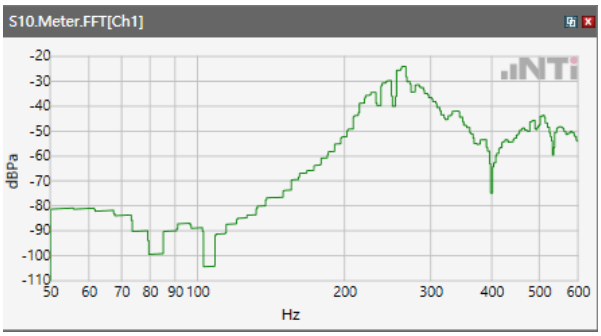
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



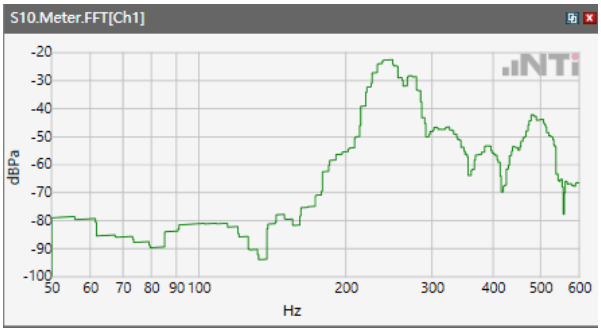
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



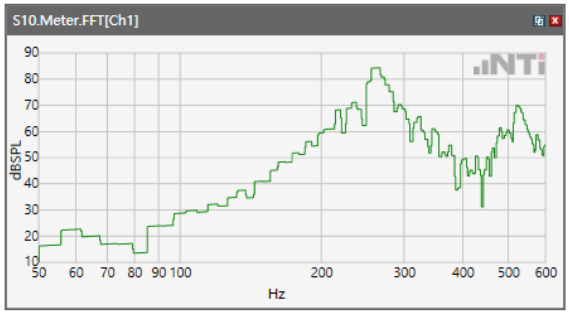
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



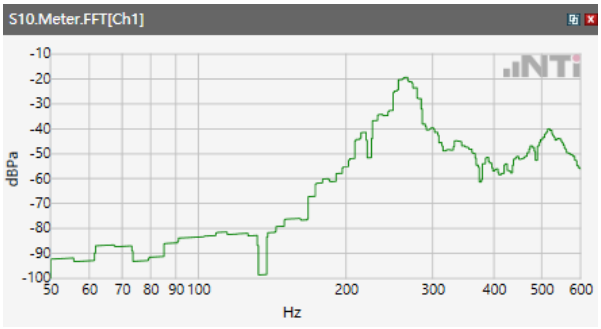
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



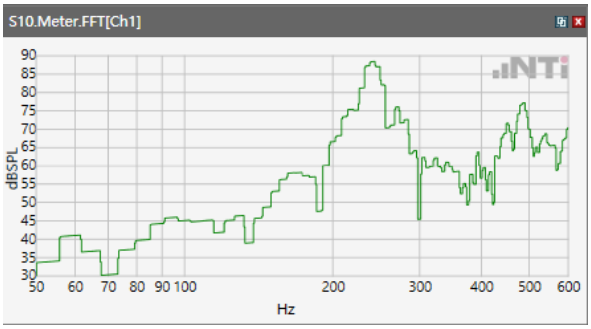
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

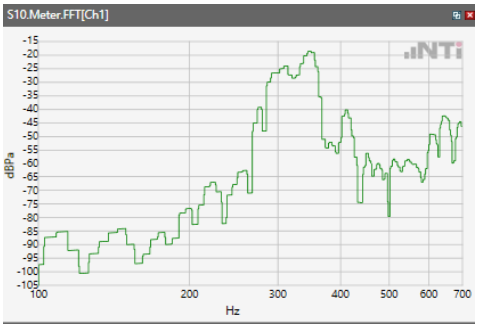


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

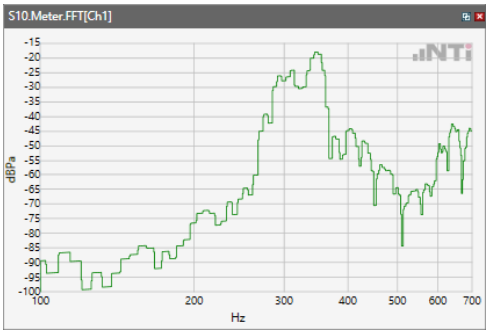


Receive path - distortion and noise 315Hz WB only

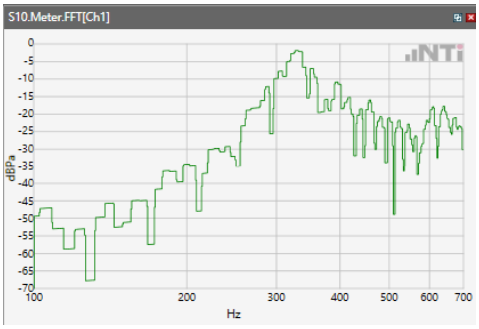
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



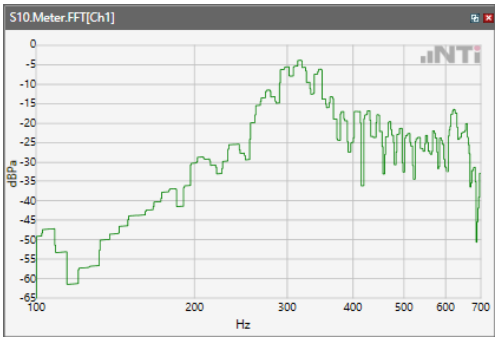
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



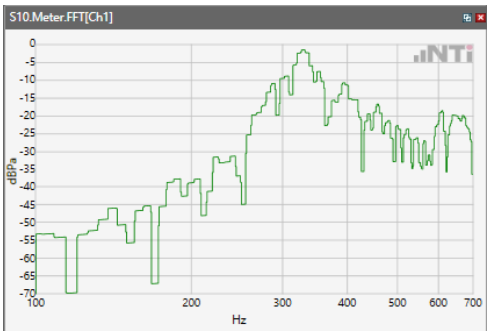
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



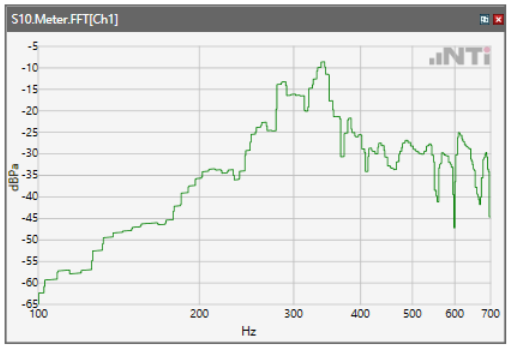
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



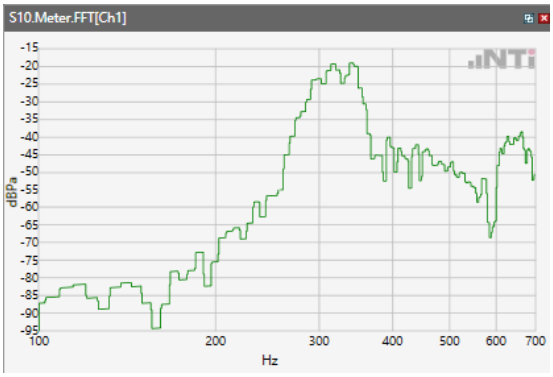
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



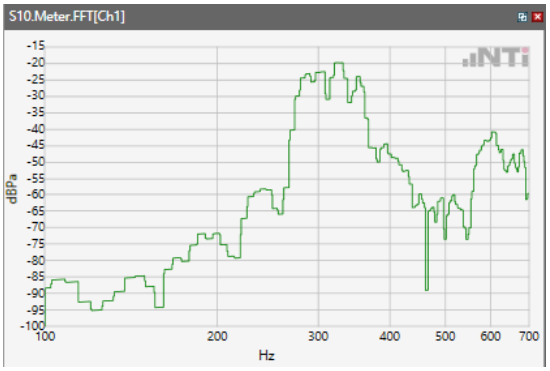
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



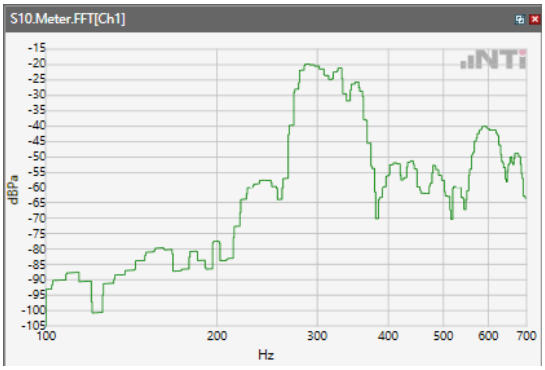
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



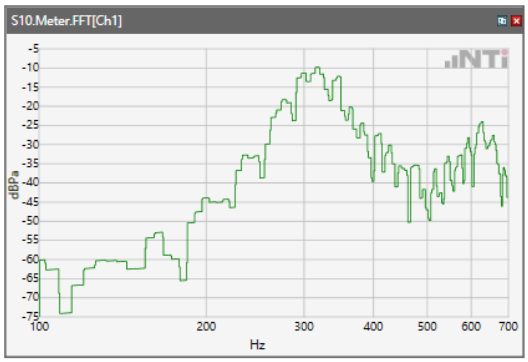
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



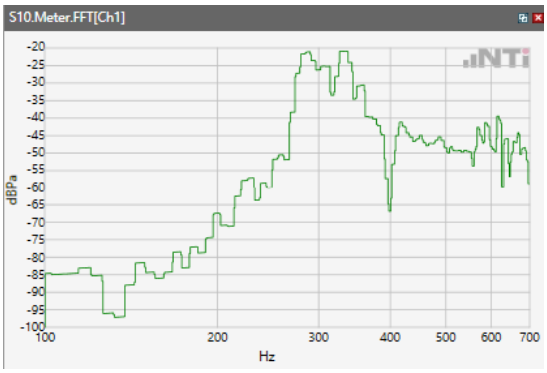
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



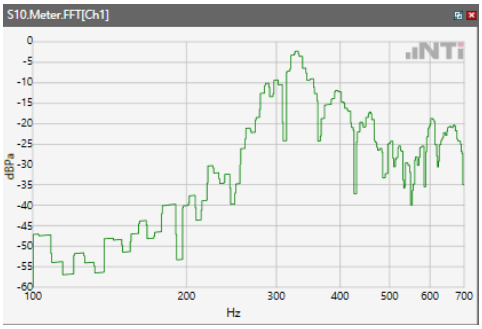
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

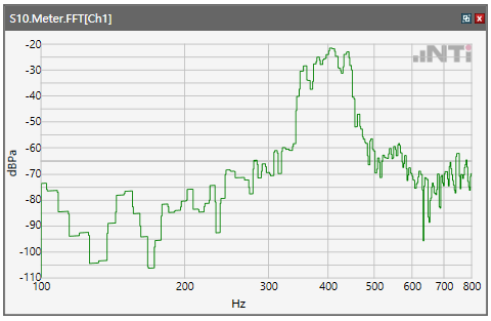


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

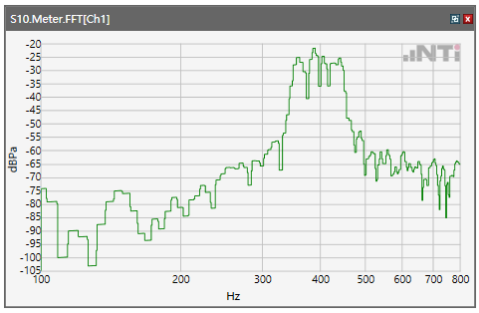


Receive path - distortion and noise 400Hz WB&NB

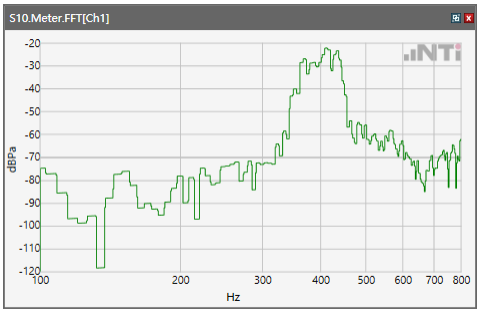
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



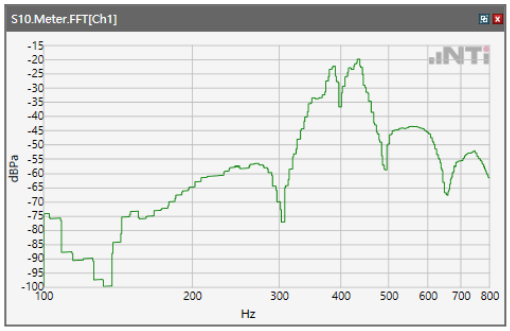
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



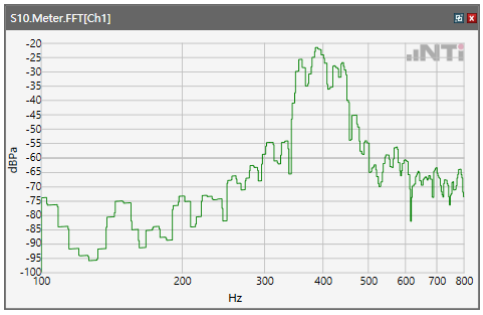
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



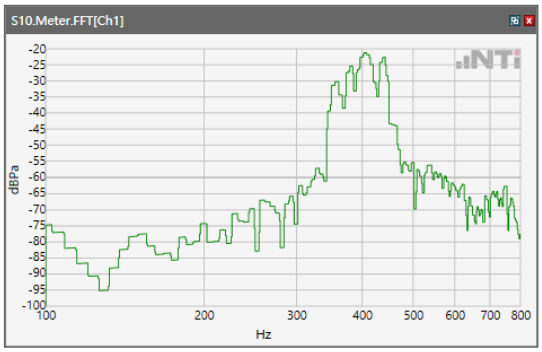
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



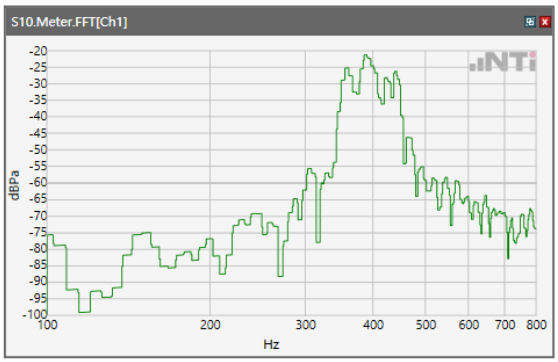
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



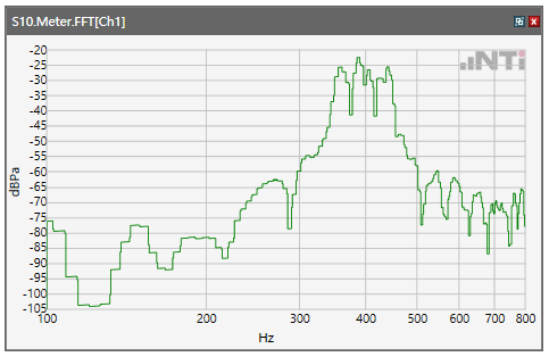
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



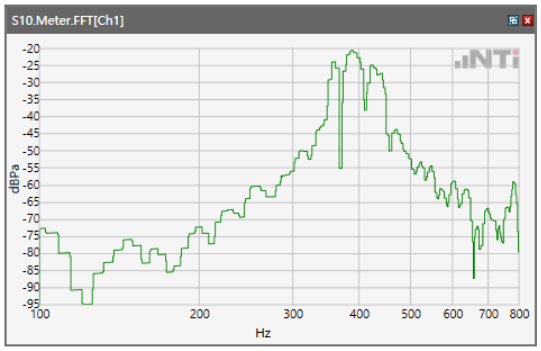
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



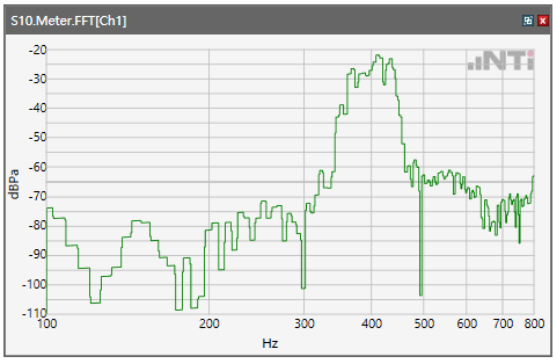
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



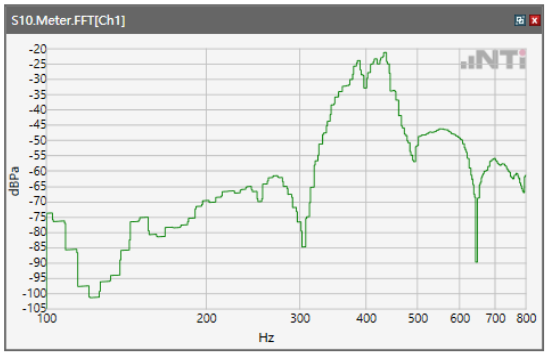
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



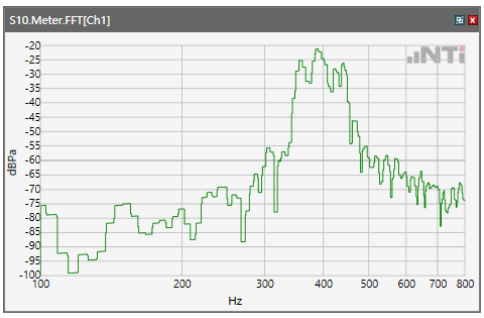
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

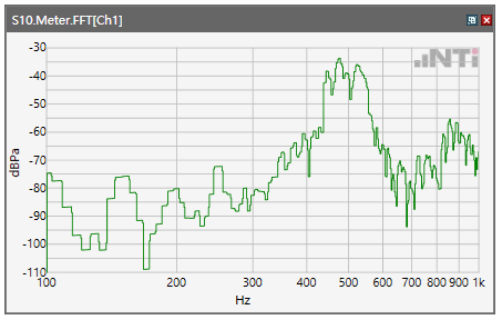


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

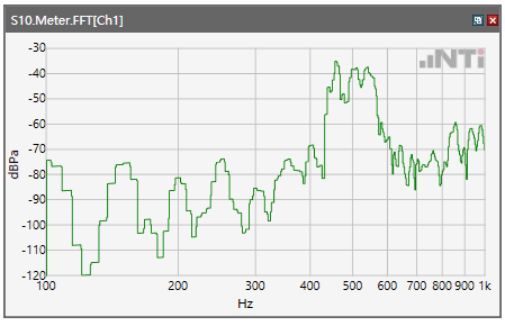


Receive path - distortion and noise 500Hz WB&NB

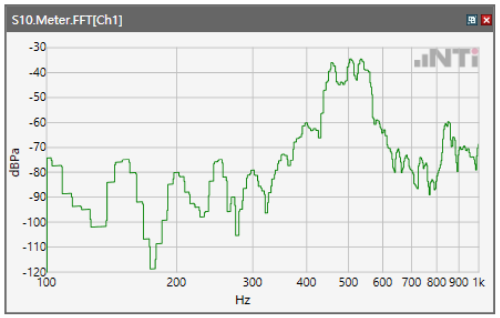
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



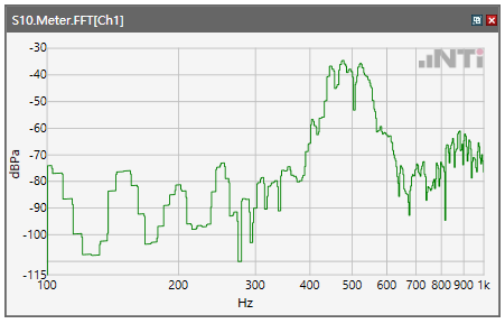
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



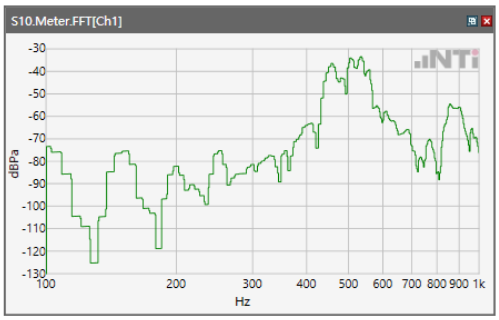
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



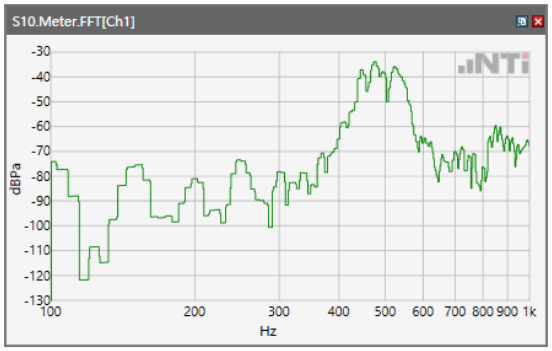
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



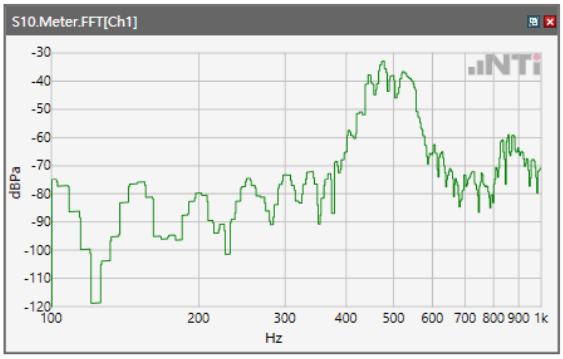
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



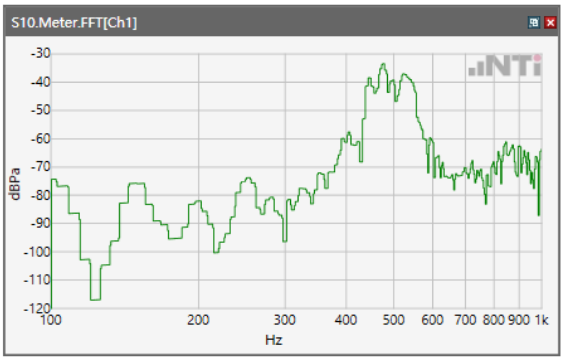
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



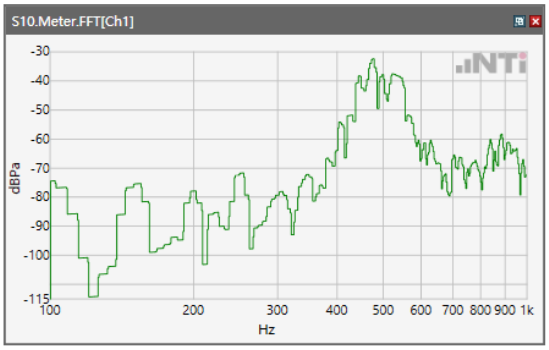
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



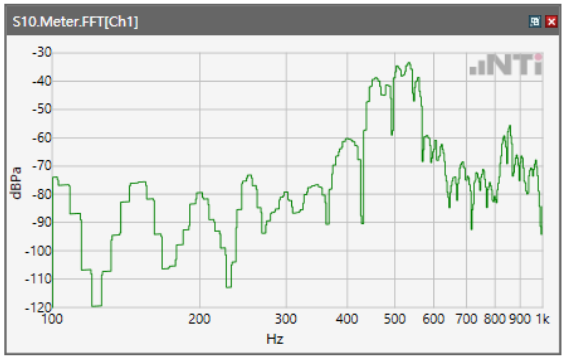
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



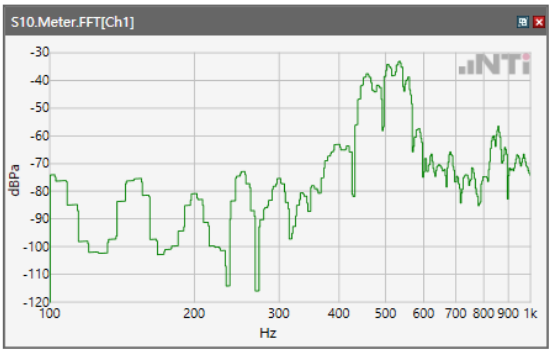
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



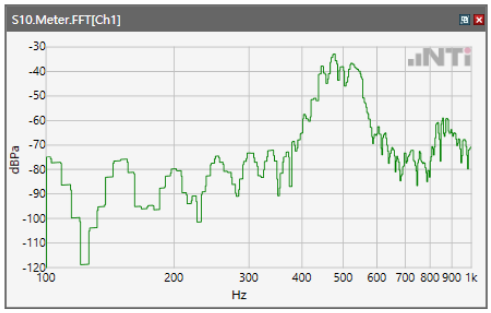
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

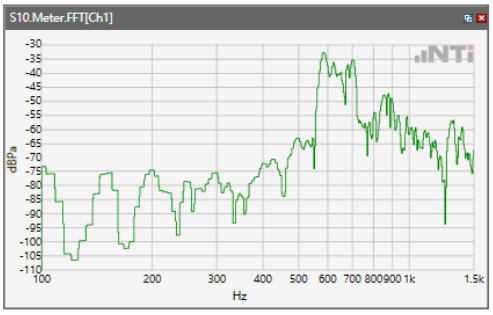


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

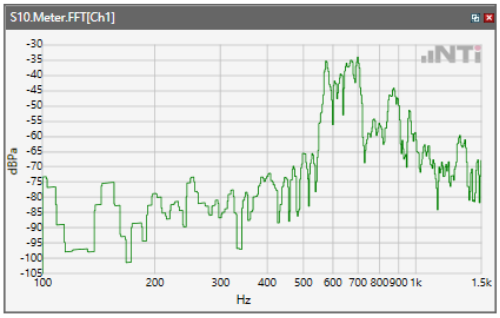


Receive path - distortion and noise 630Hz WB&NB

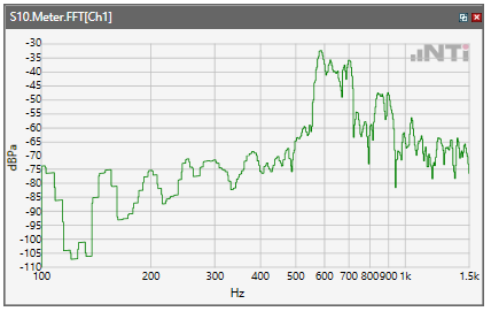
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



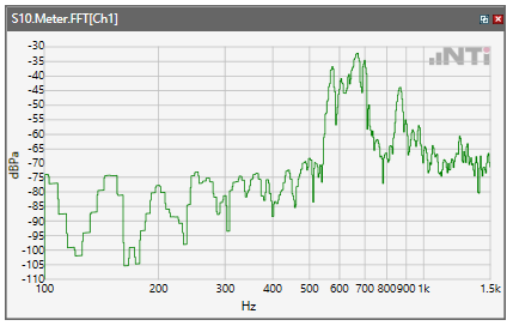
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



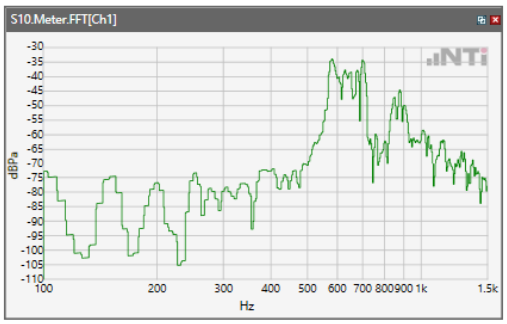
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



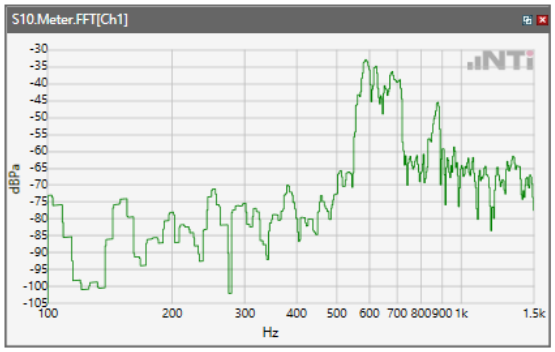
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



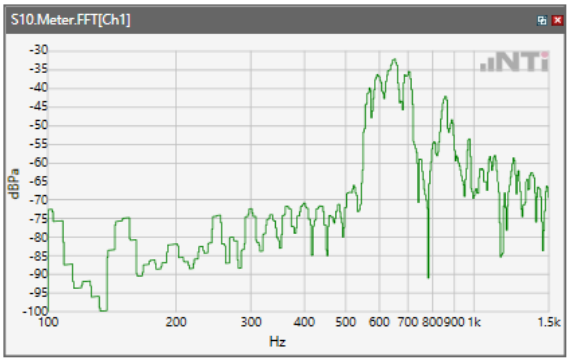
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



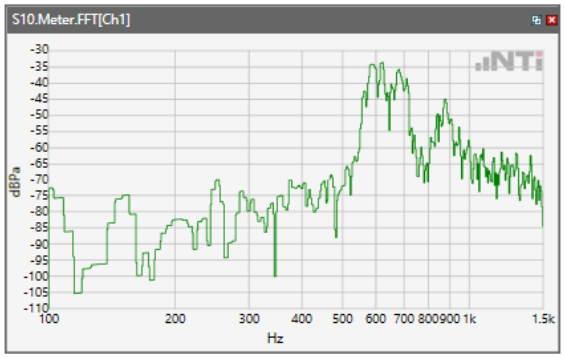
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



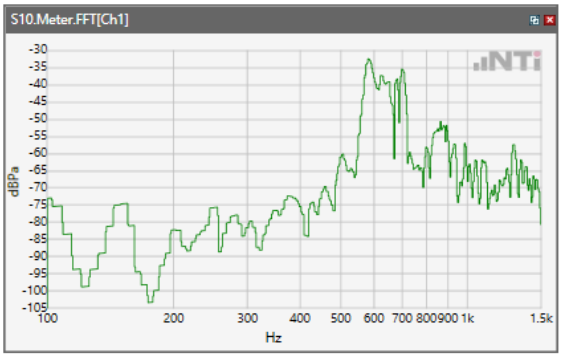
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



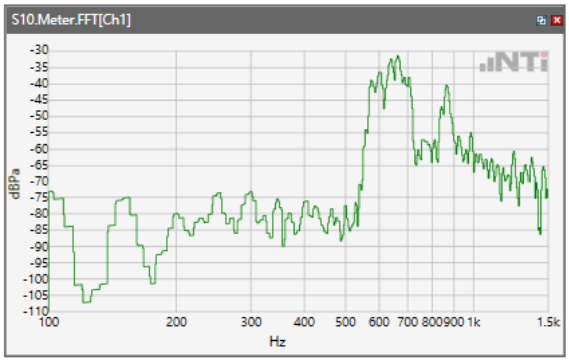
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



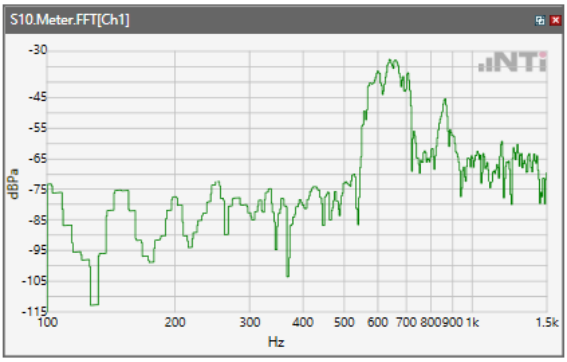
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



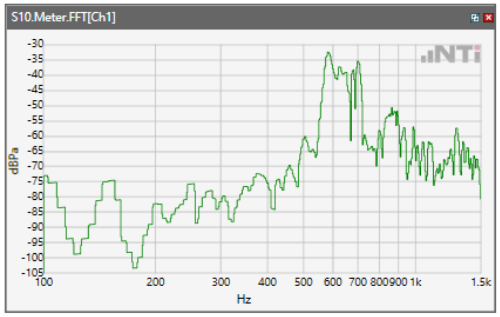
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

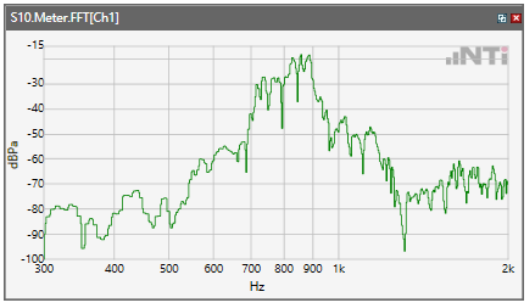


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

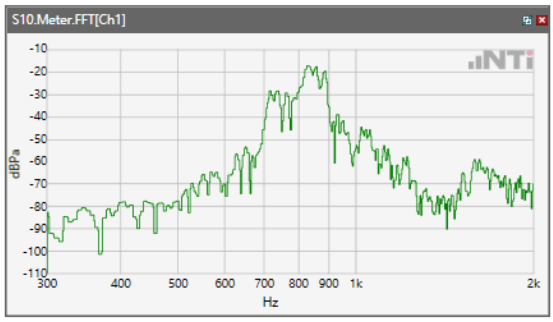


Receive path - distortion and noise 800Hz WB&NB

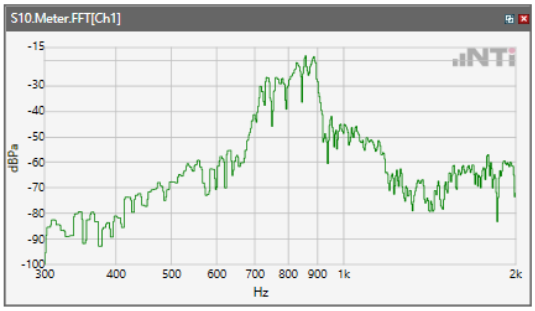
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



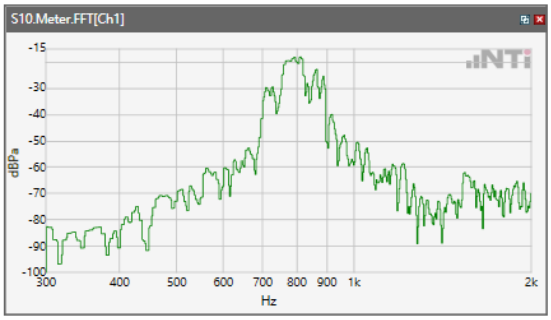
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



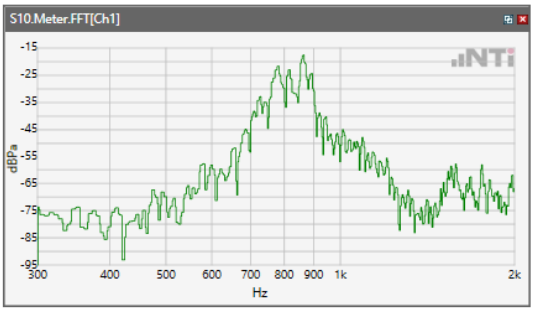
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



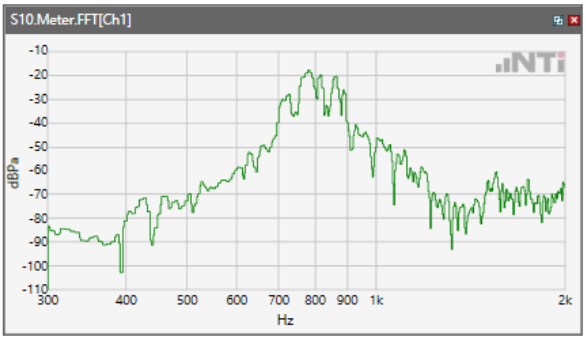
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



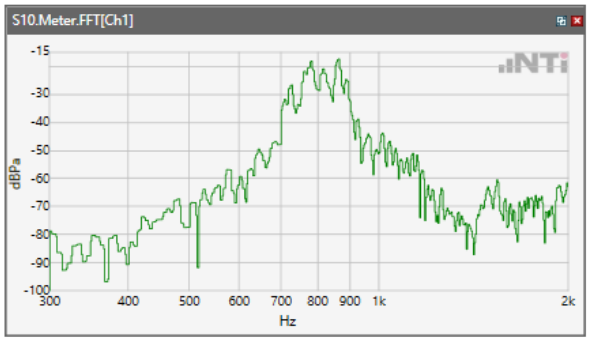
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



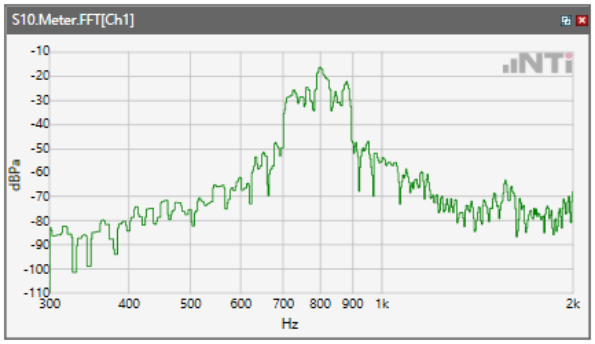
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



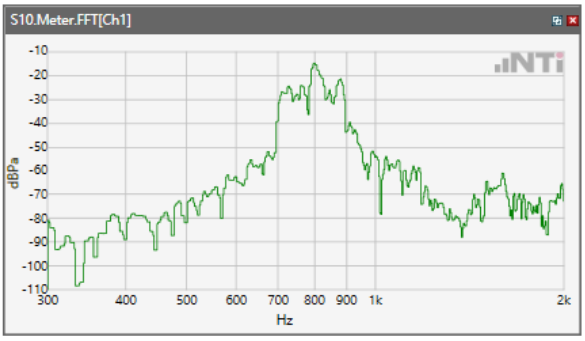
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



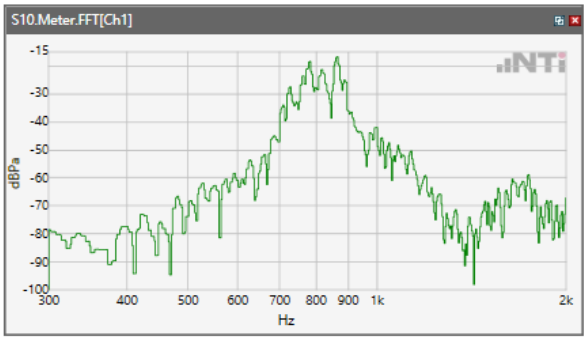
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



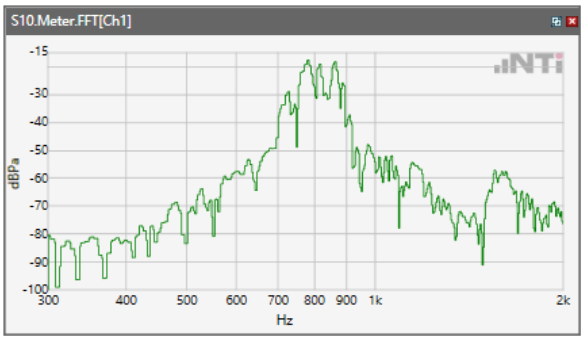
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



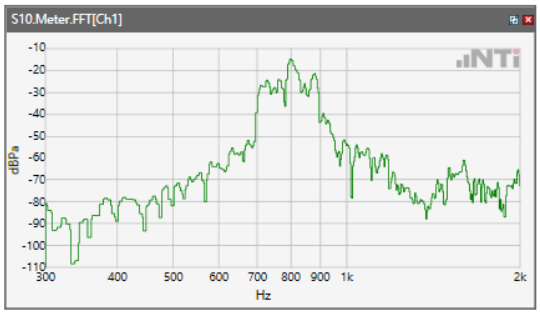
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

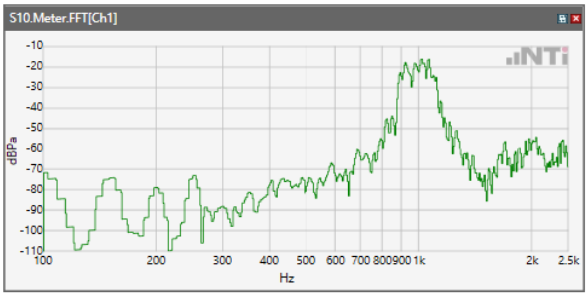


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

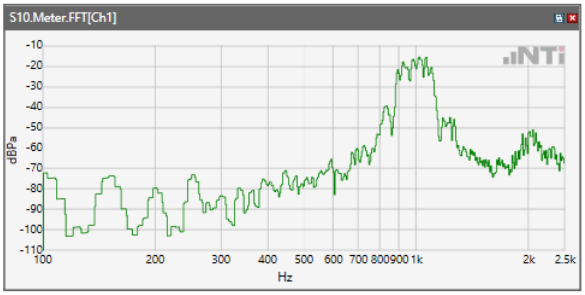


Receive path - distortion and noise 1000Hz WB&NB

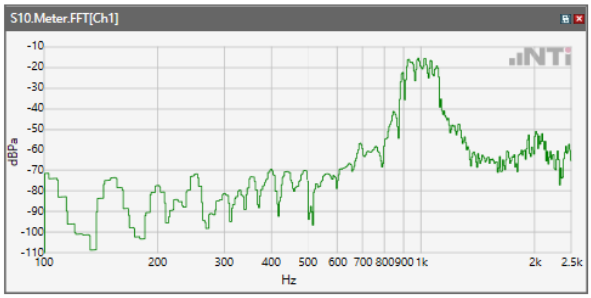
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



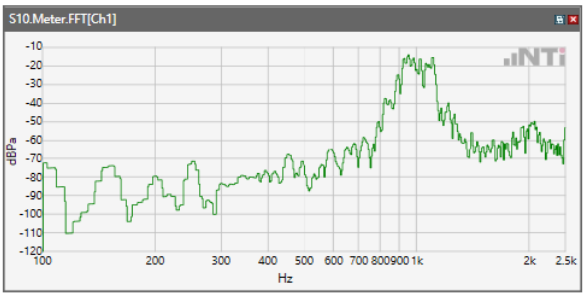
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



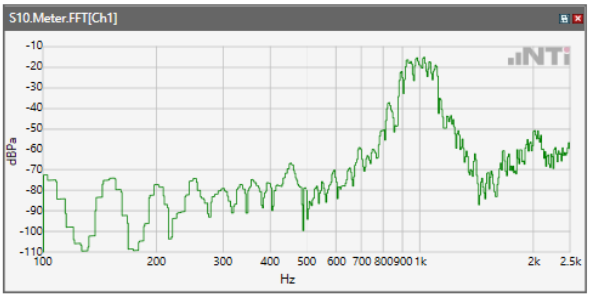
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



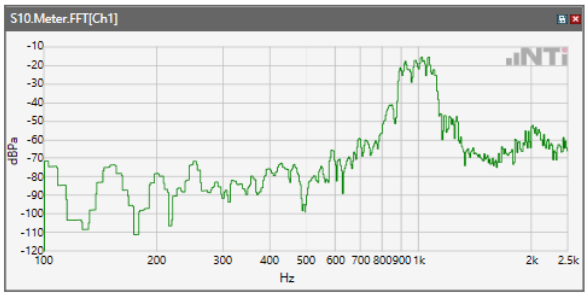
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



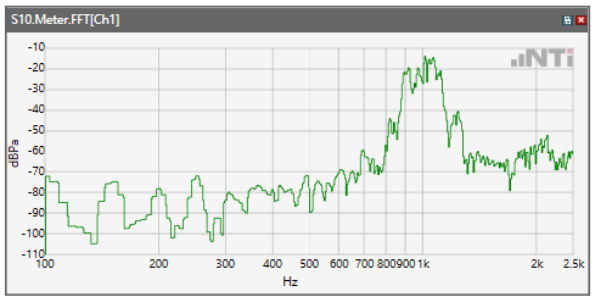
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



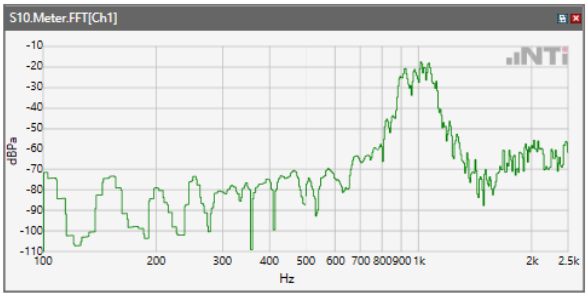
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



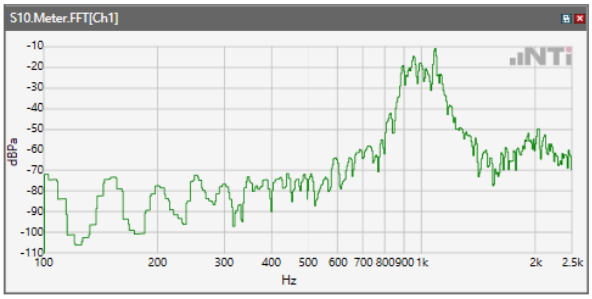
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



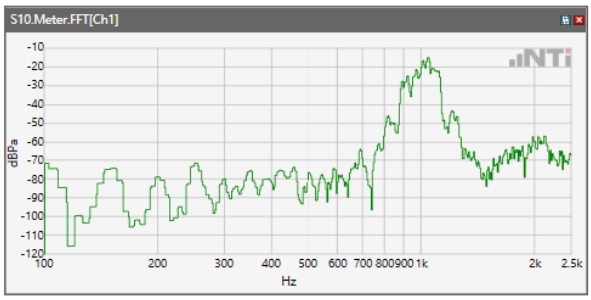
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



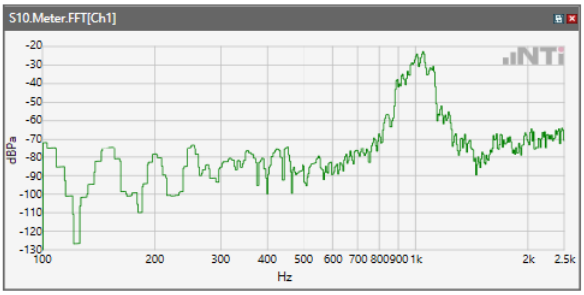
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



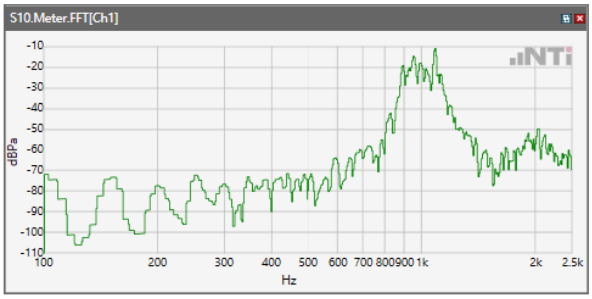
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

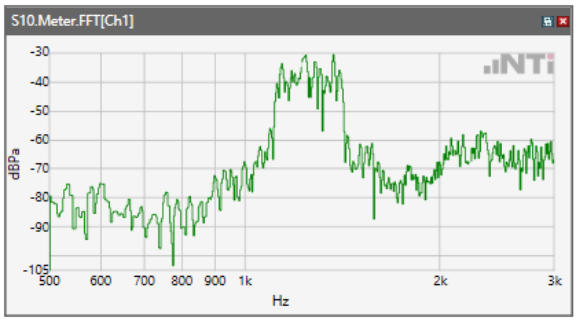


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

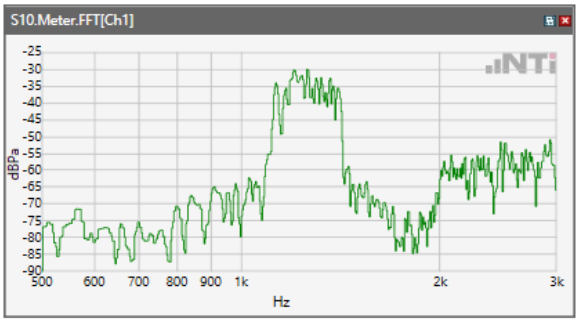


Receive path - distortion and noise 1250Hz WB&NB

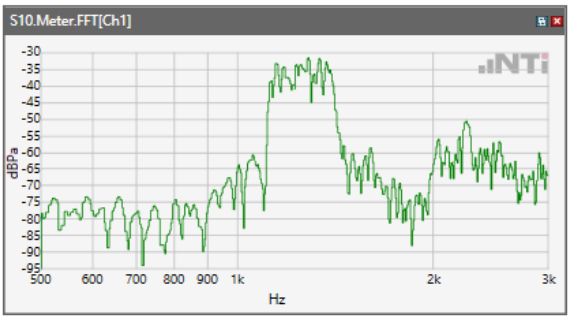
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



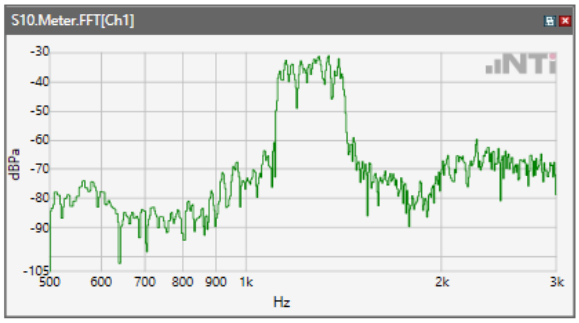
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



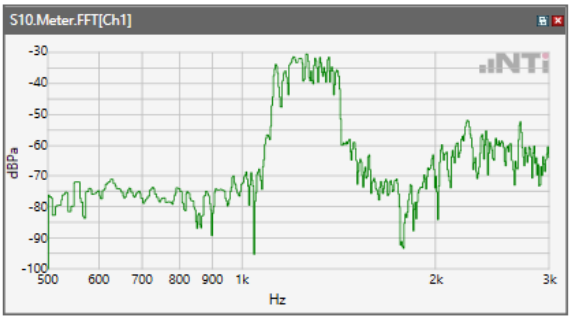
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



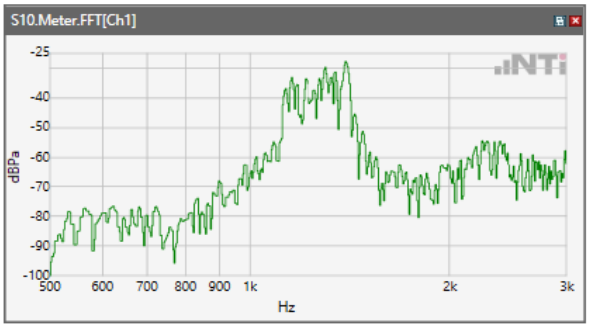
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



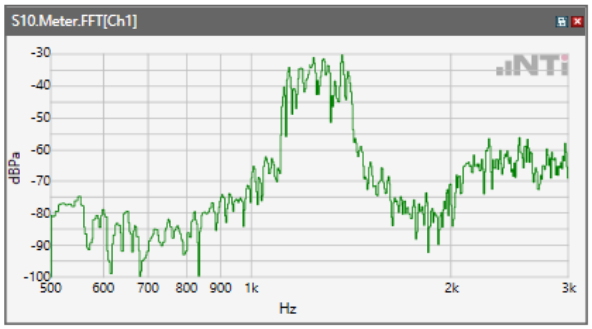
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



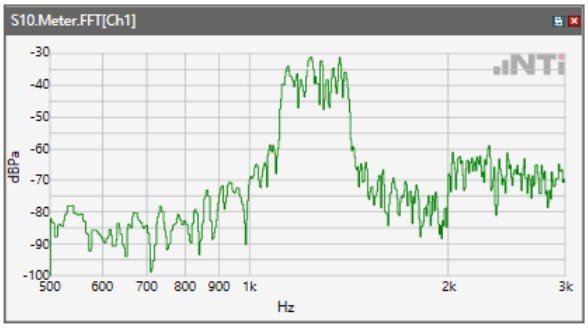
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



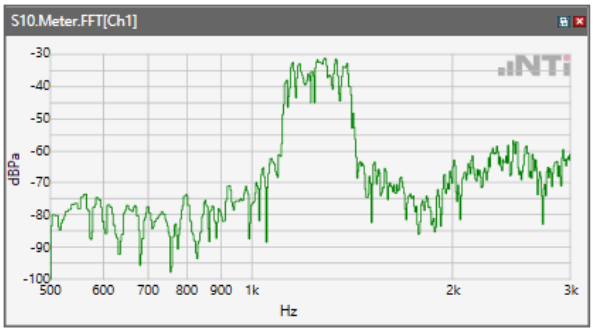
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



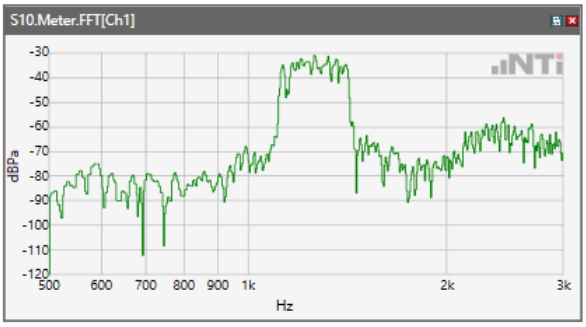
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



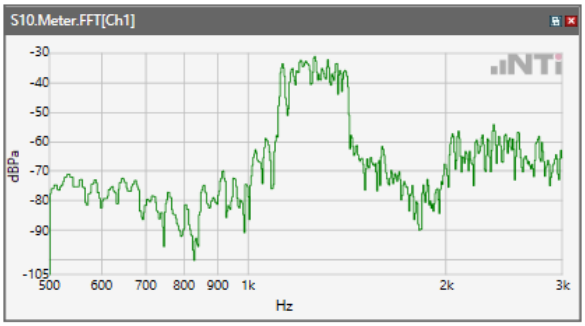
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



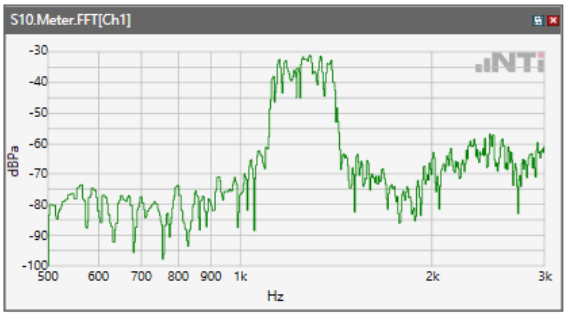
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

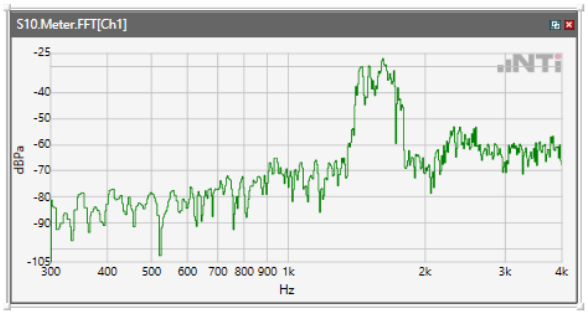


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

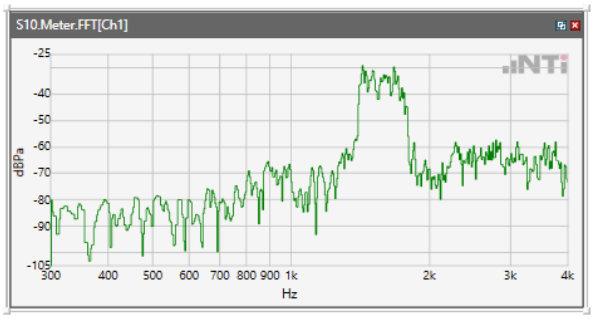


Receive path - distortion and noise 1600Hz WB&NB

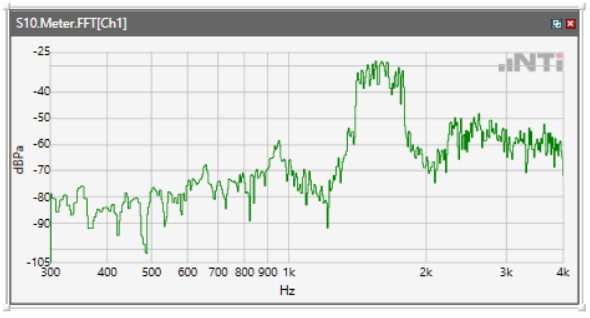
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



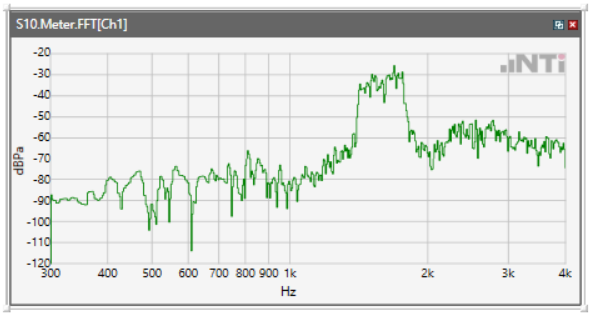
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



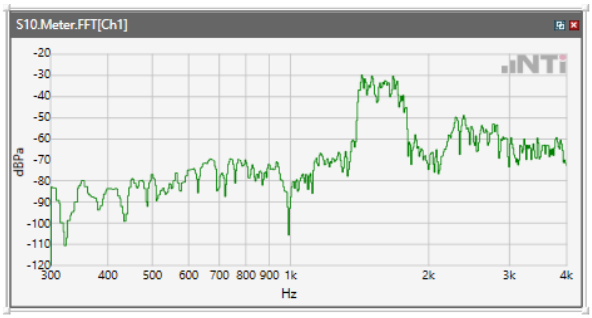
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



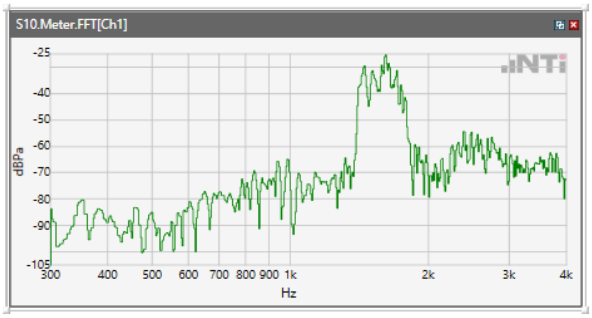
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



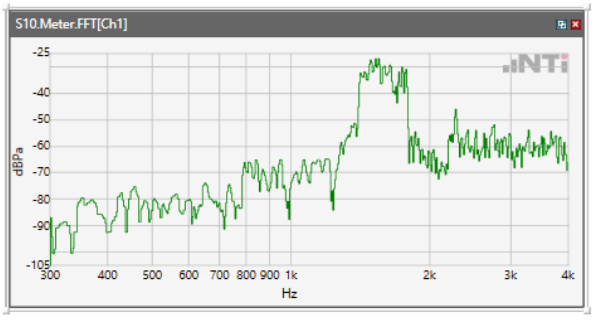
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



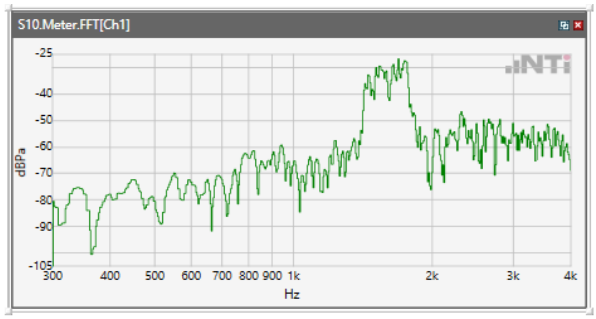
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



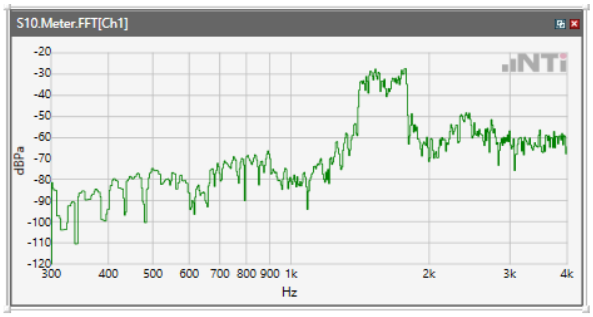
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



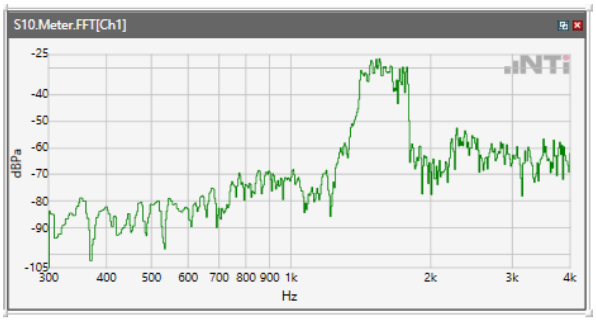
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



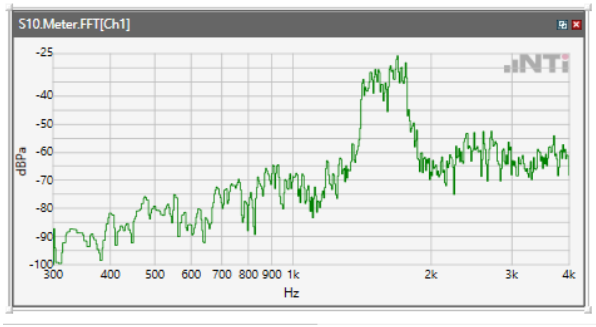
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



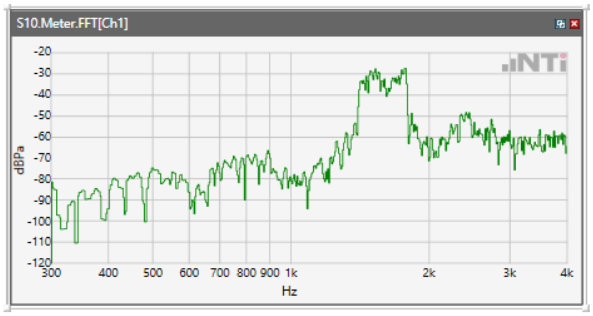
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

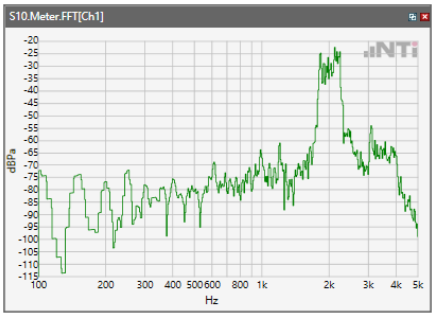


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

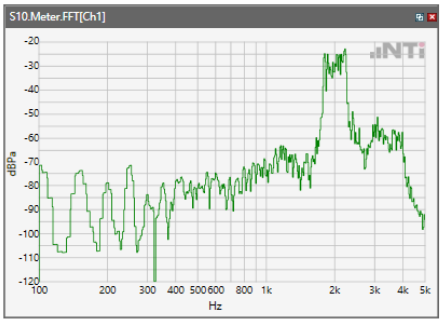


Receive path - distortion and noise 2000Hz WB&NB

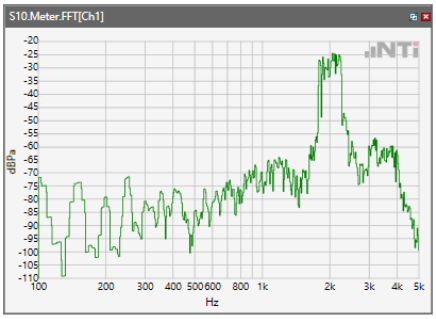
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



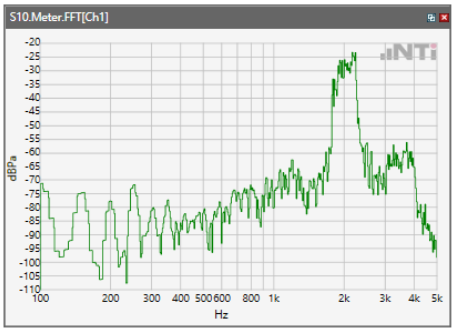
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



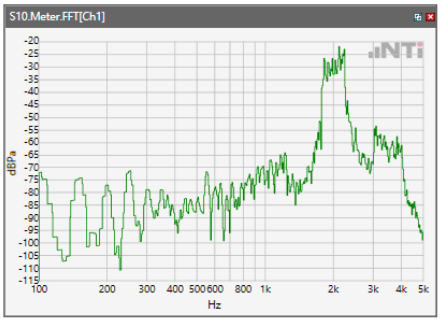
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



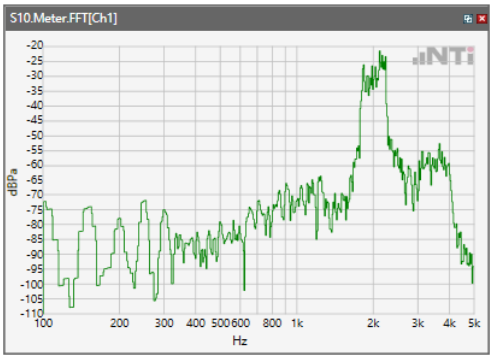
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



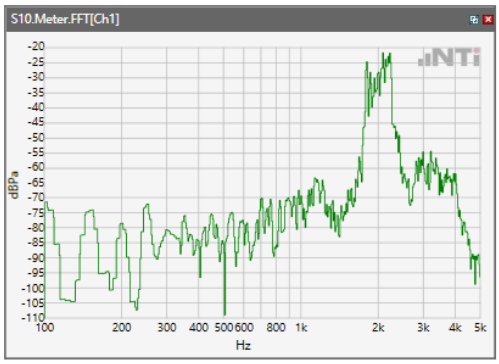
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



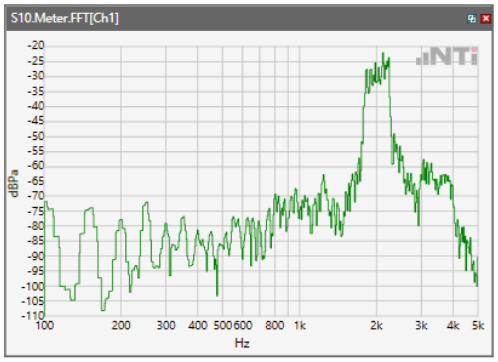
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



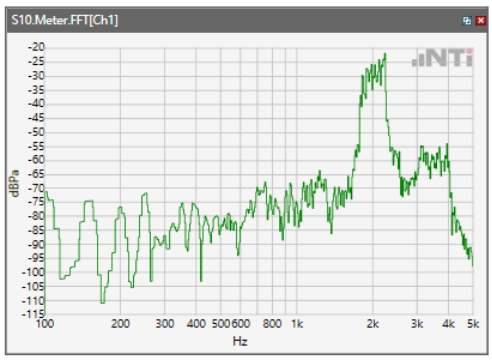
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



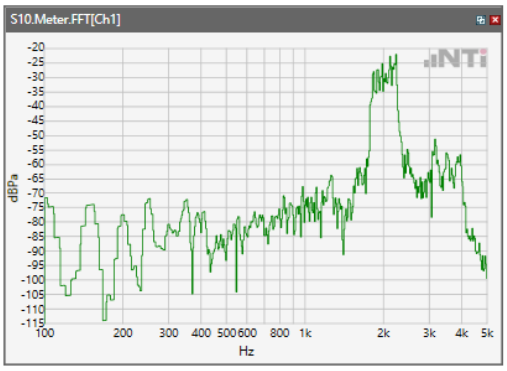
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



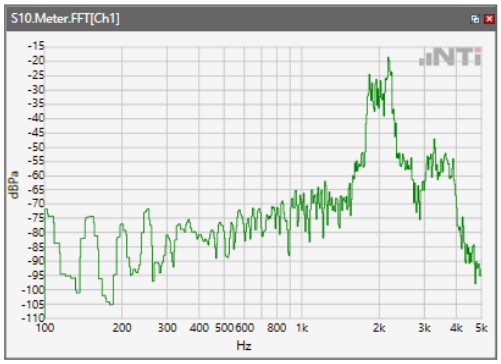
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



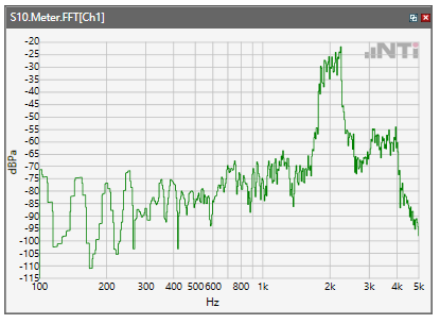
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

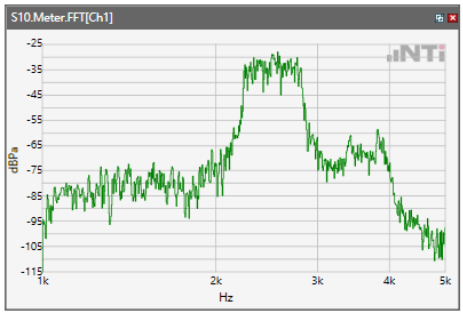


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

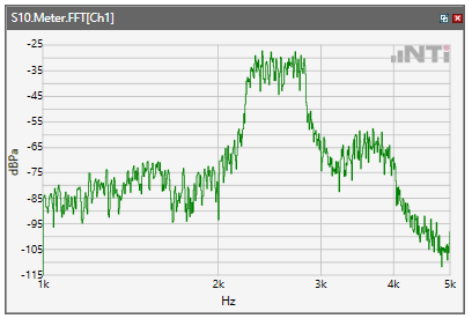


Receive path - distortion and noise 2500Hz WB&NB

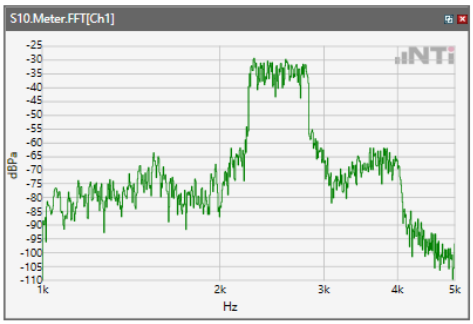
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



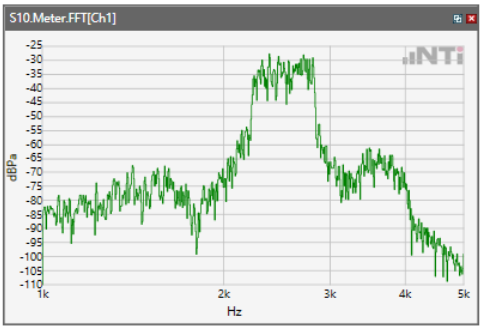
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



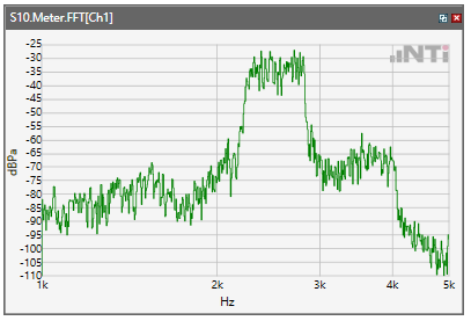
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



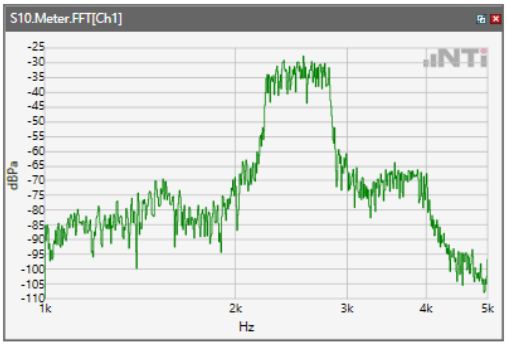
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



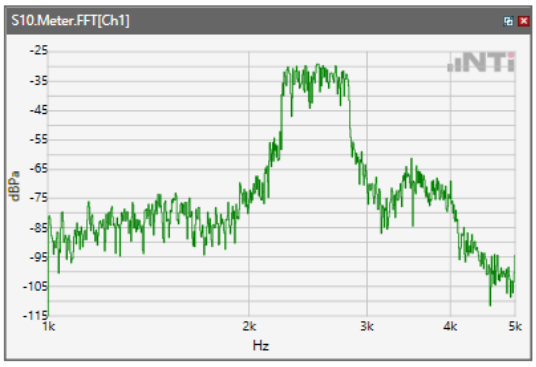
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



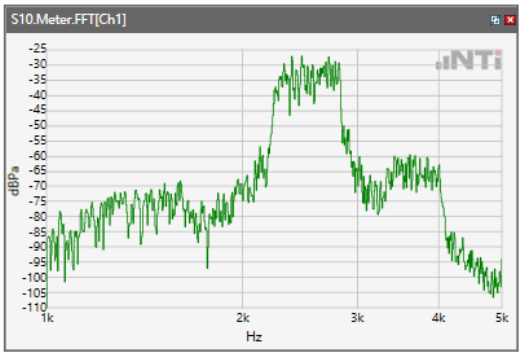
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



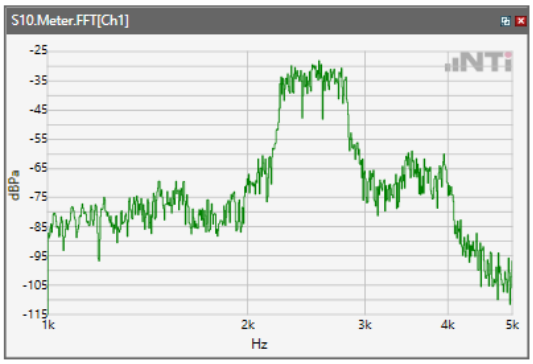
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



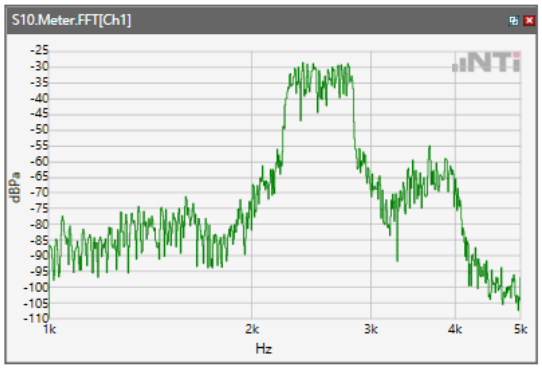
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



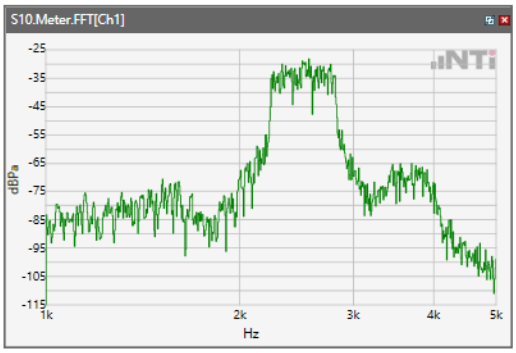
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



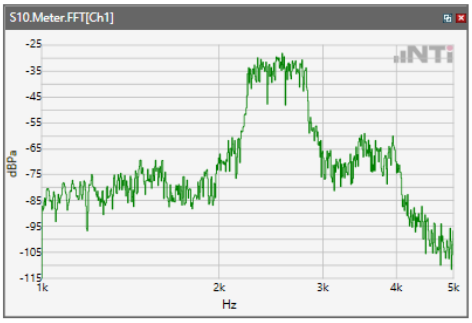
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

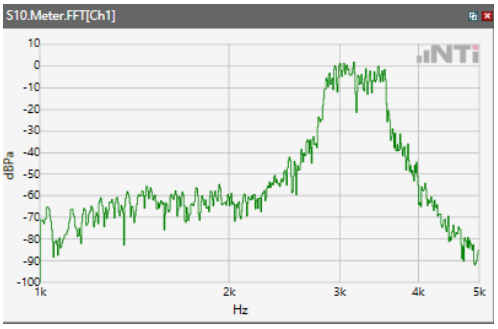


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

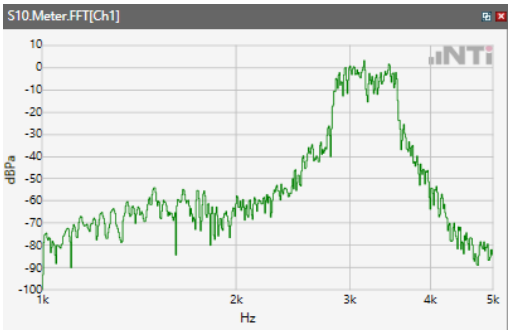


Receive path - distortion and noise 3150Hz WB&NB

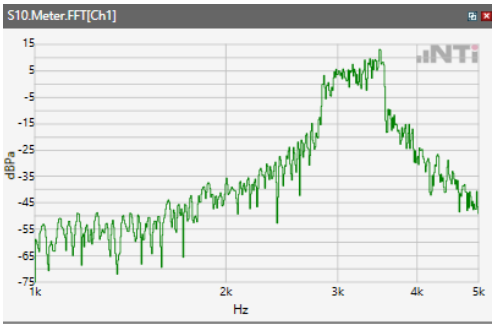
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



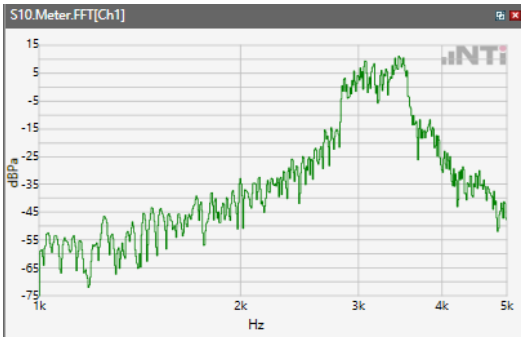
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



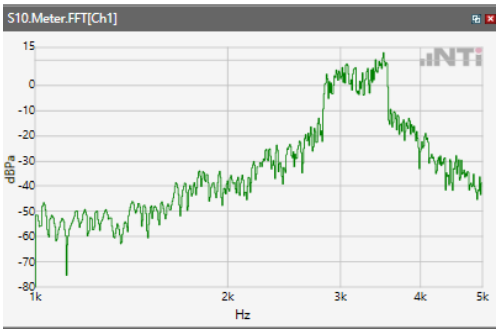
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



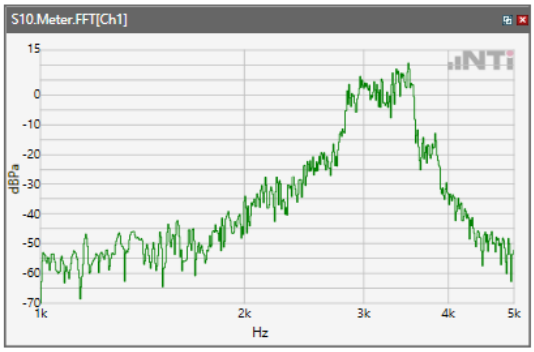
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



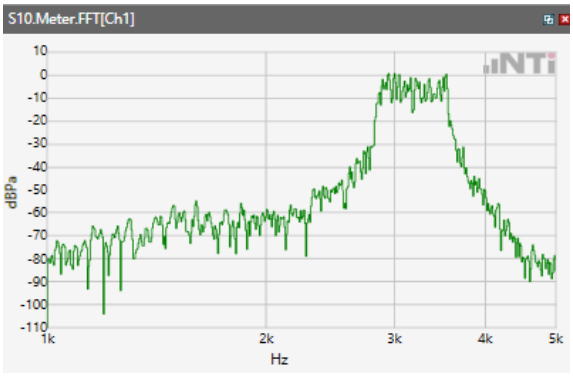
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



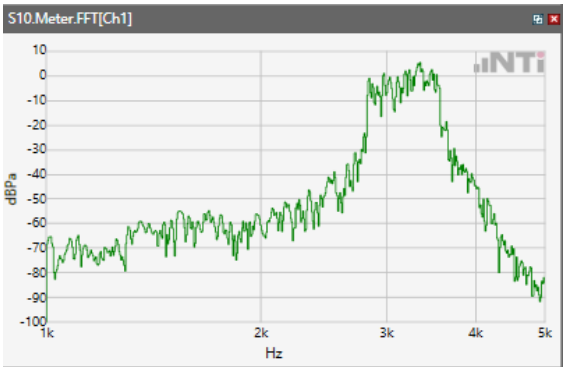
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



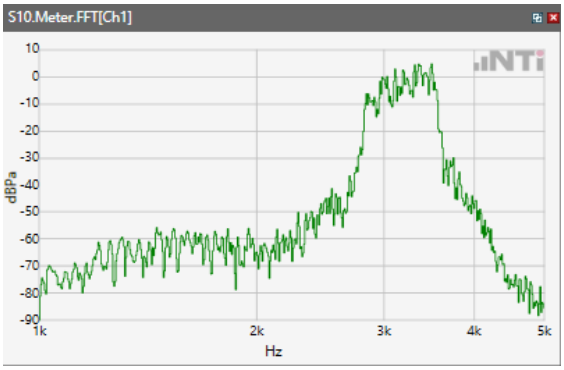
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



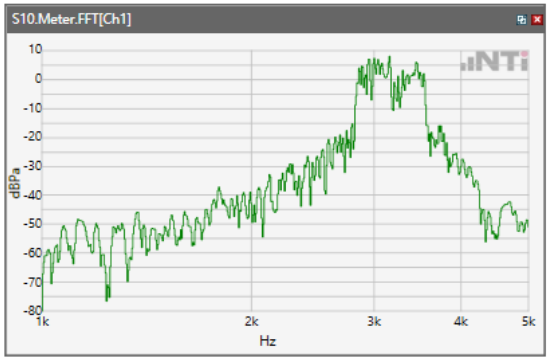
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



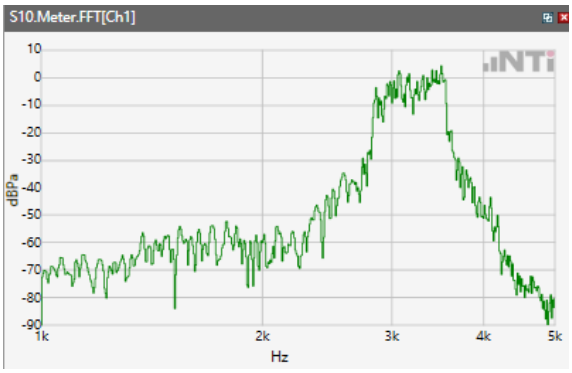
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



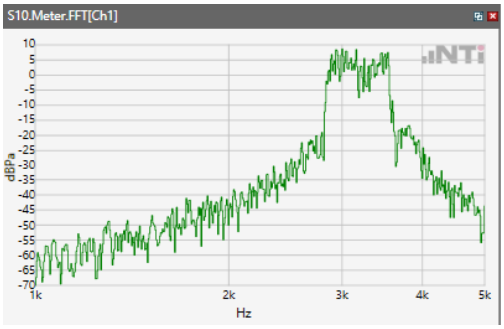
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

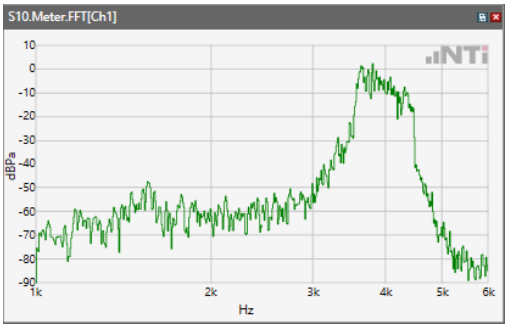


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

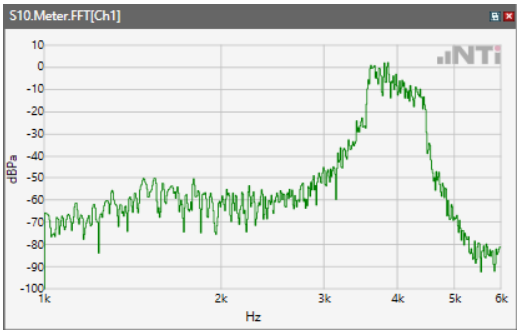


Receive path - distortion and noise 4000Hz WB only

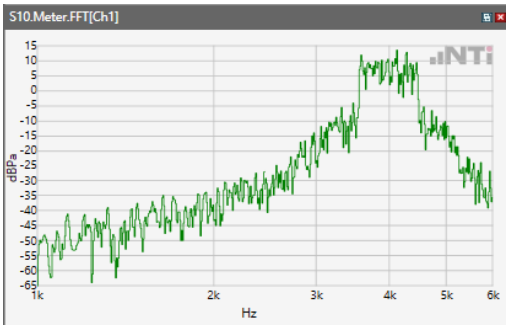
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



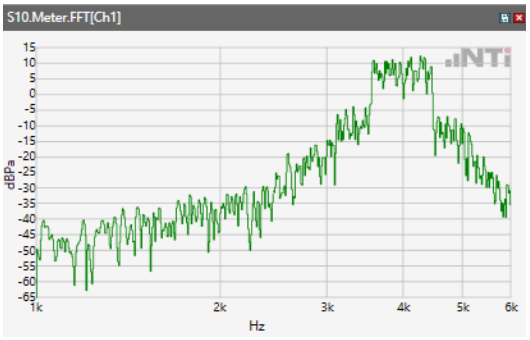
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



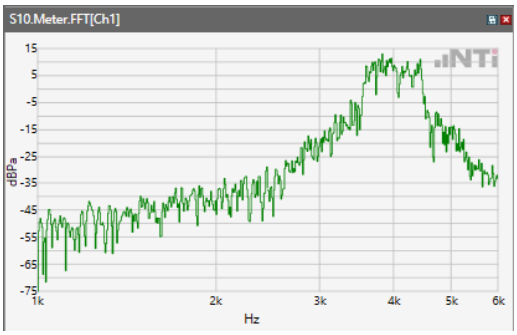
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



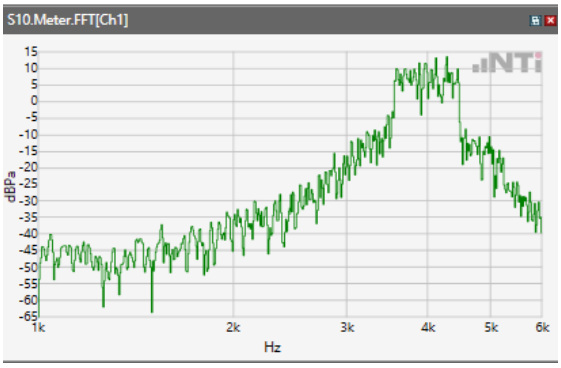
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



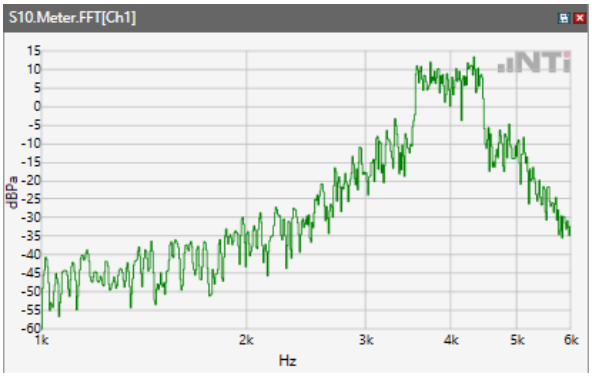
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



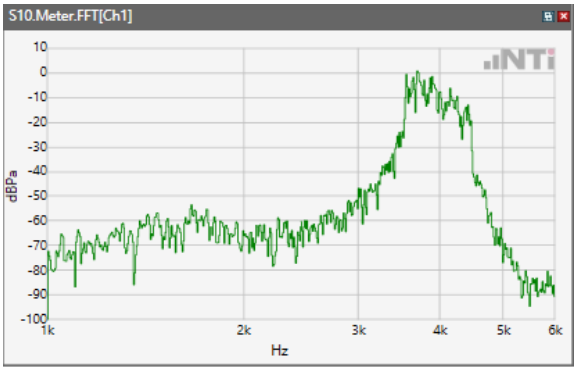
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



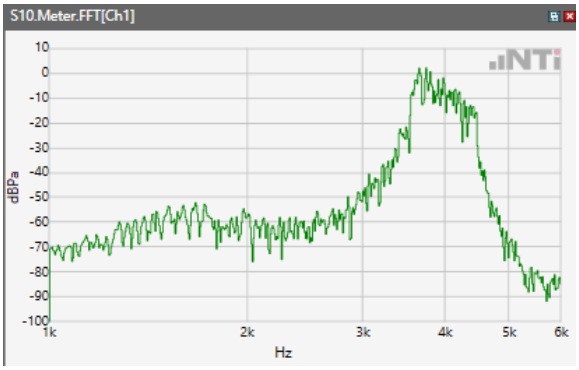
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



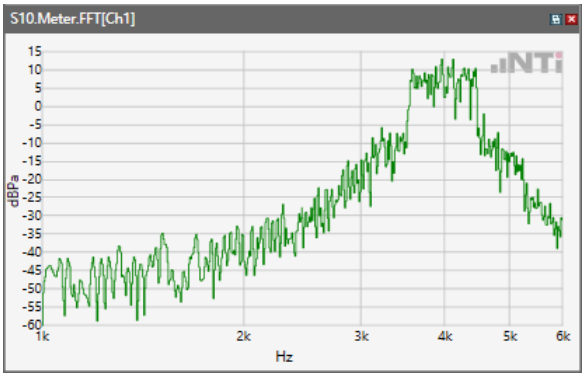
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



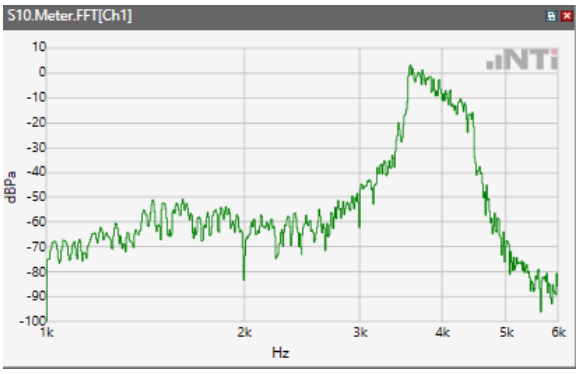
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



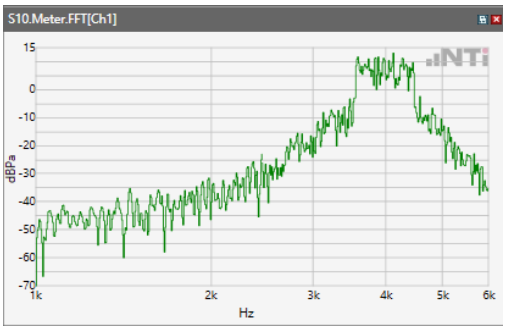
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

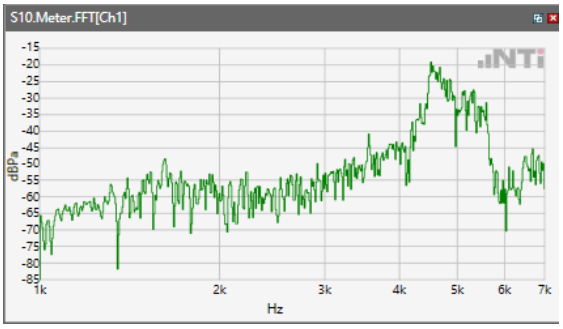


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

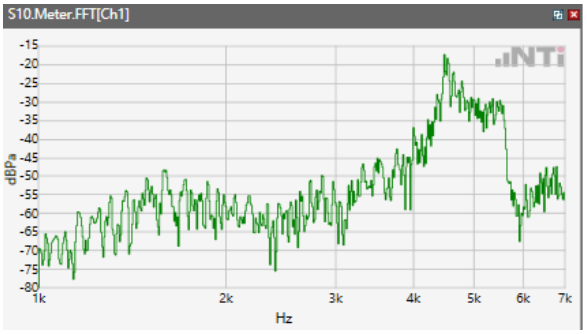


Receive path - distortion and noise 5000Hz WB only

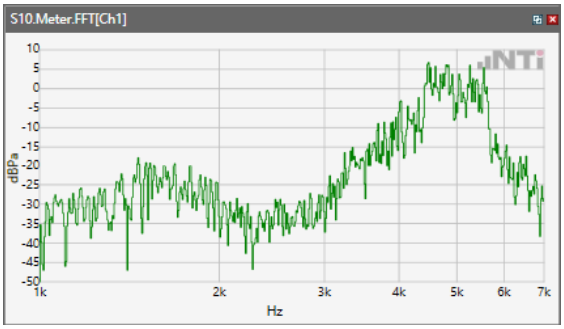
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



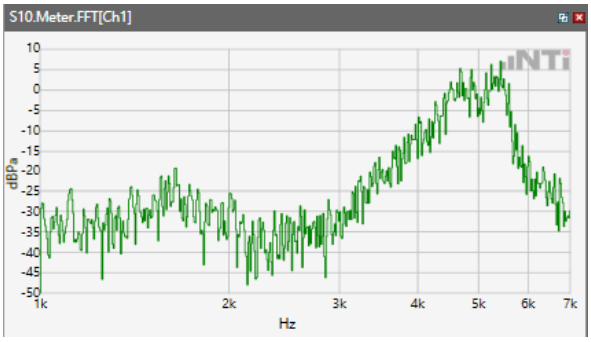
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



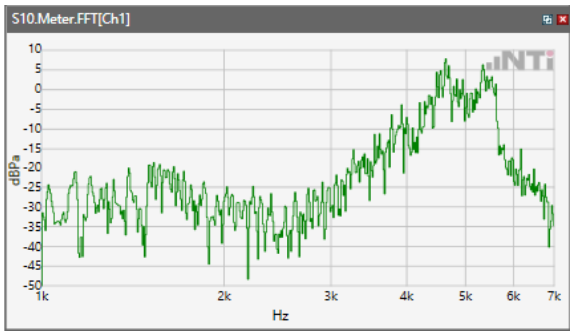
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



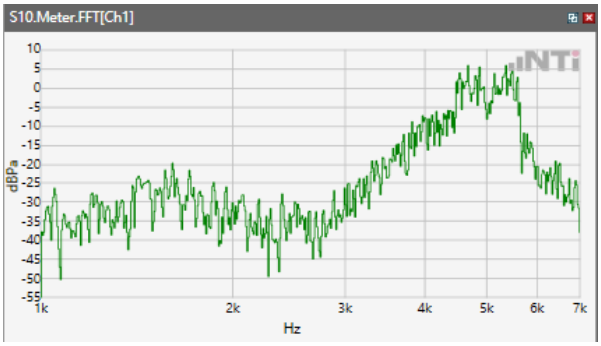
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



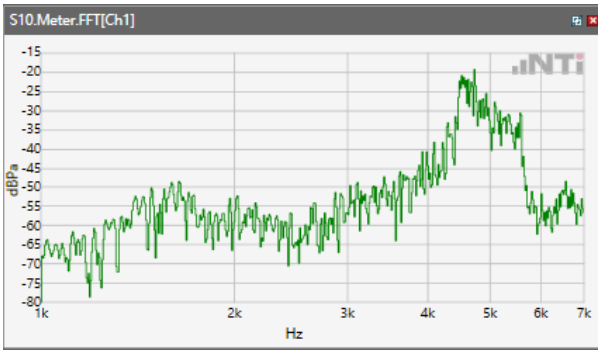
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



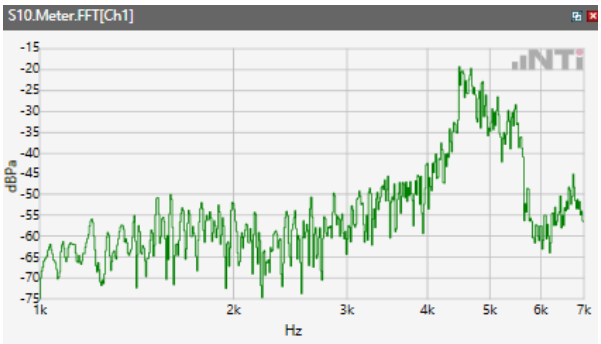
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



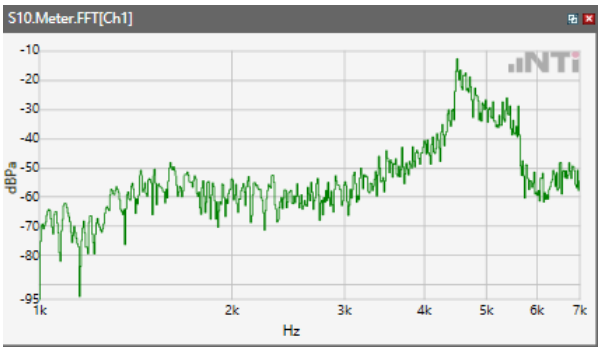
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



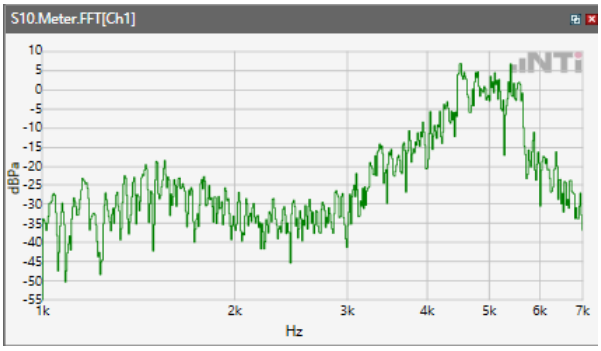
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 26



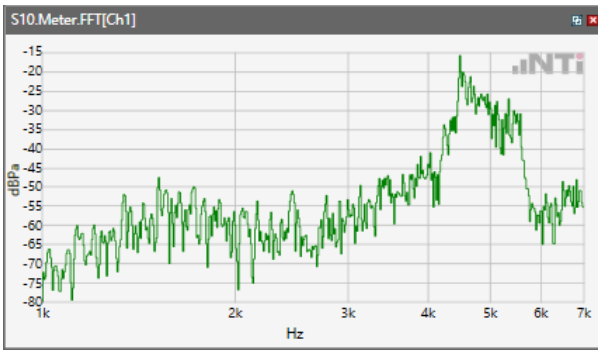
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 41



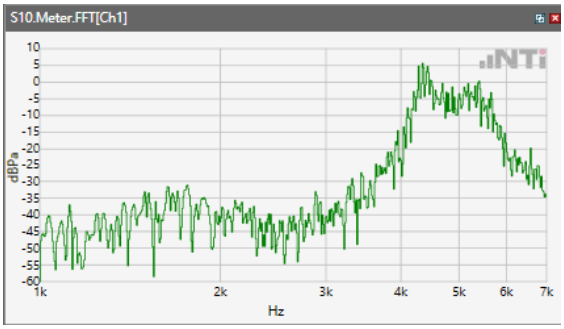
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

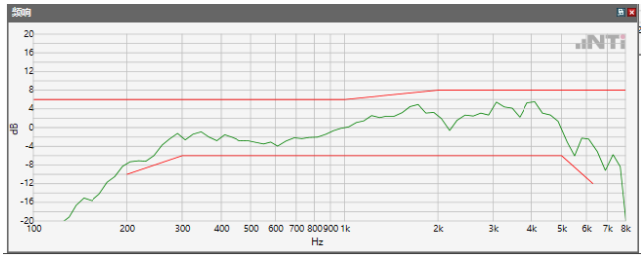


5.2 Receive path – distortion and noise

The distortion and noise test results data are referred to Annex C.

5.3 Receive Acoustic Frequency response Performance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \GSM 850



Absolute minimal distance

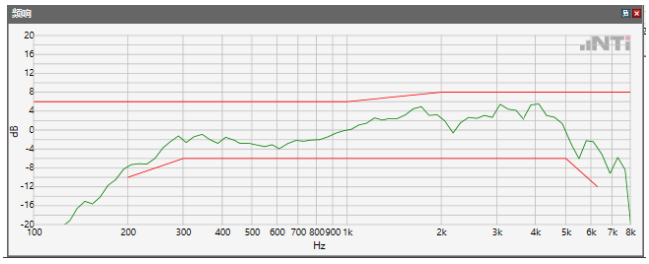
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \GSM 1900



Absolute minimal distance

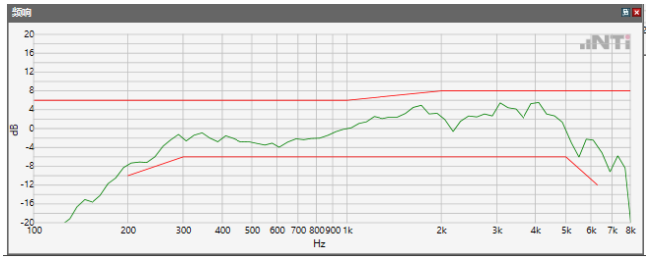
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \WCDMA Band II



Absolute minimal distance

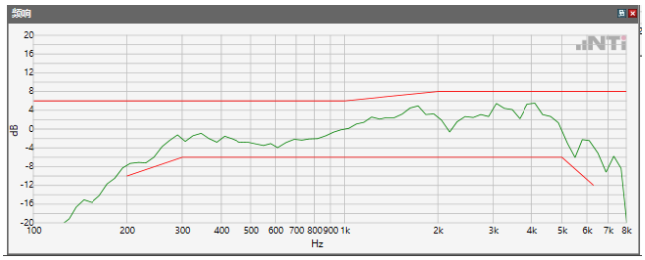
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ WCDMA Band IV



Absolute minimal distance

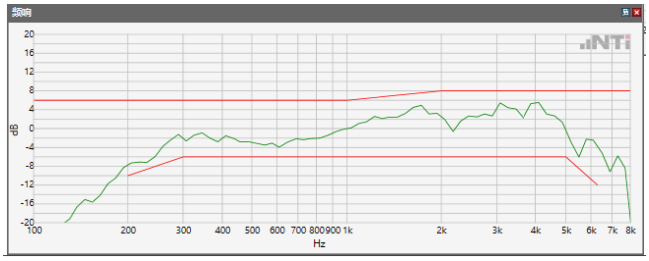
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ WCDMA Band V



Absolute minimal distance

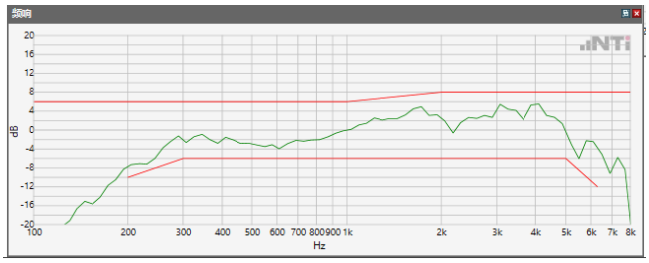
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \LTE Band 12



Absolute minimal distance

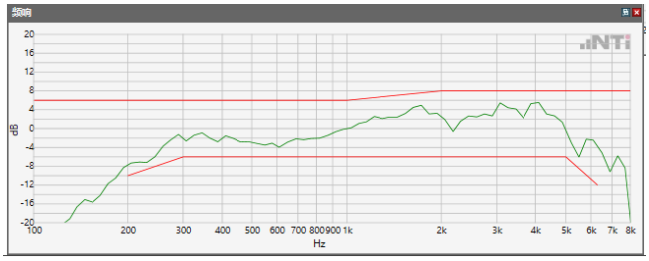
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ LTE Band 25



Absolute minimal distance

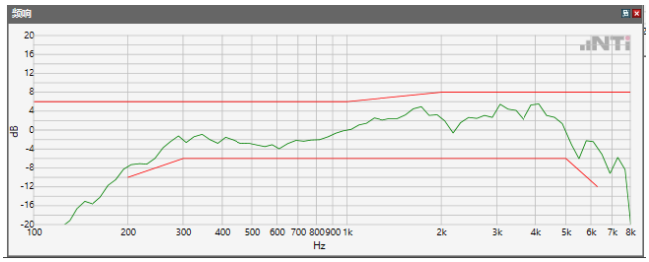
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ LTE Band 26



Absolute minimal distance

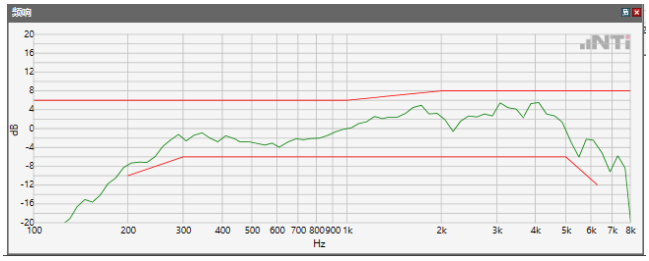
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ LTE Band 41



Absolute minimal distance

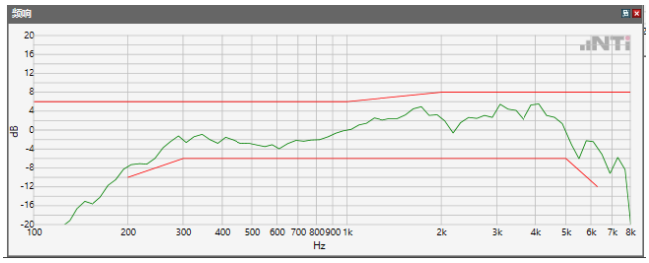
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ LTE Band 66



Absolute minimal distance

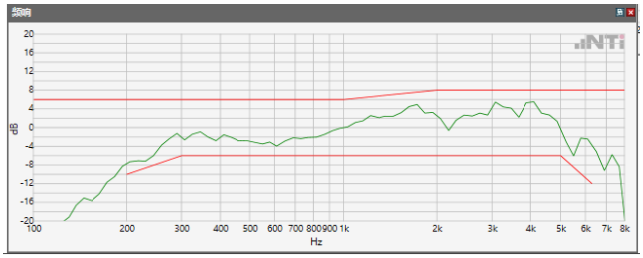
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \ LTE Band 71



Absolute minimal distance

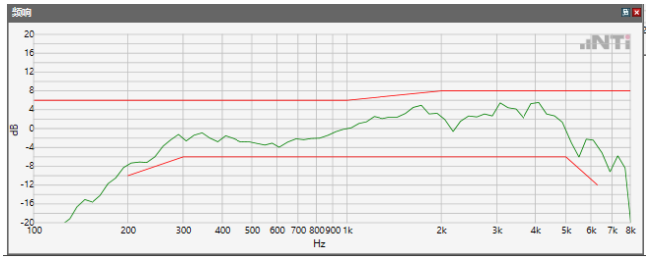
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85 kbps \WLAN 2.4GHz



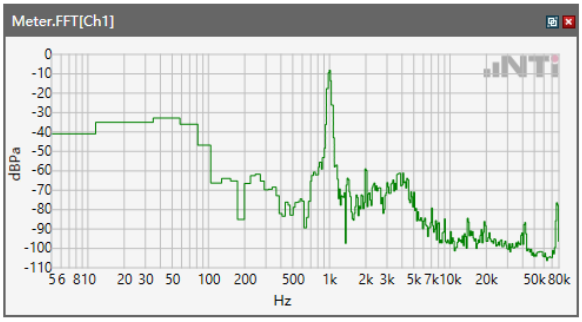
Absolute minimal distance

OK

OK

5.1 Receive Volume Control Performance 2N---EVS WB

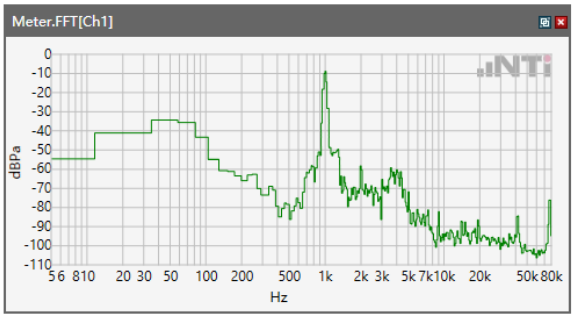
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\LTE Band 12



Speech Level RCV: 83.78 dB[SPL]

Calculated Value: 13.78 dB Ok

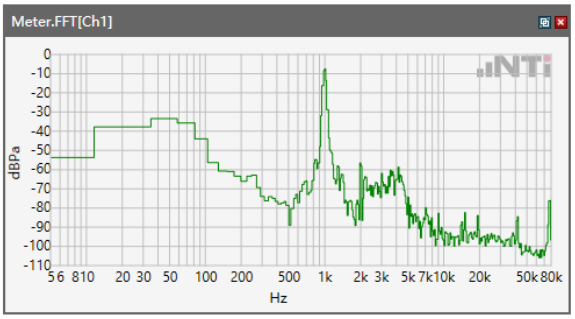
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\ LTE Band 25



Speech Level RCV: 86.54 dB[SPL]

Calculated Value: 16.54 dB Ok

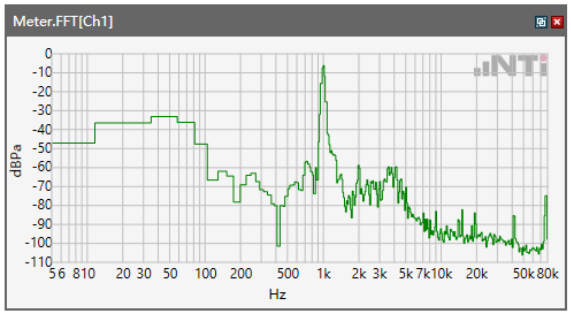
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\LTE Band 26



Speech Level RCV: 83.85 dB[SPL]

Calculated Value: 13.85 dB Ok

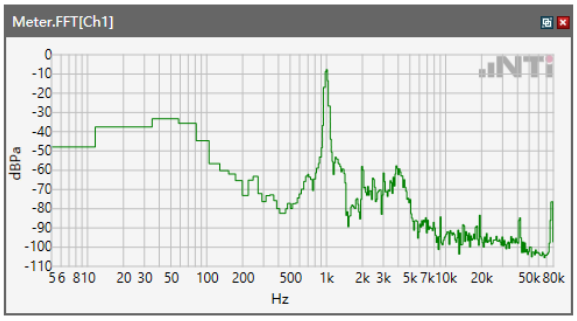
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\LTE Band 41



Speech Level RCV: 85.95 dB[SPL]

Calculated Value: 15.95 dB Ok

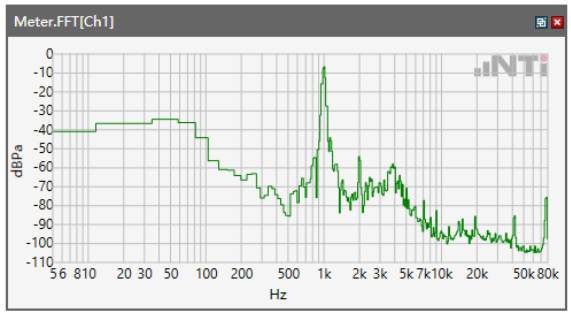
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\ LTE Band 66



Speech Level RCV: 85.76 dB[SPL]

Calculated Value: 15.76 dB Ok

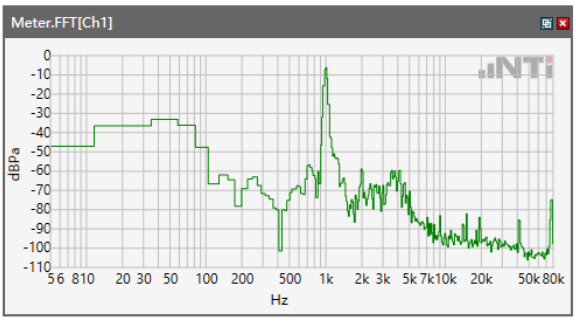
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\LTE Band 71



Speech Level RCV: 84.66 dB[SPL]

Calculated Value: 14.66 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 13.2 kbps\WLAN 2.4GHz



Speech Level RCV: 85.96 dB[SPL]

Calculated Value: 15.96 dB Ok