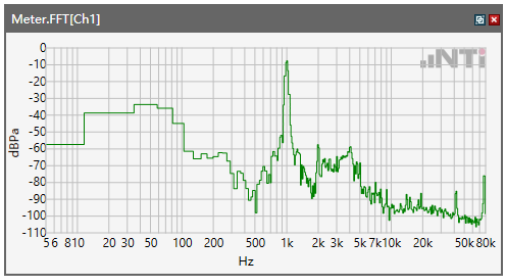
Annex D Test Results of Volume Control

Measurement Protocol

Project	SZ24040390S02

5.1 Receive Volume Control Performance 8N---NB

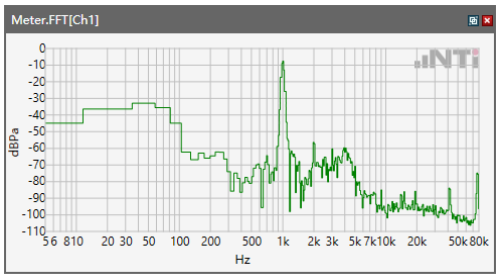
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\GSM 850



Speech Level RCV: 91.32 dB[SPL]

Calculated Value: 21.32 dB Ok

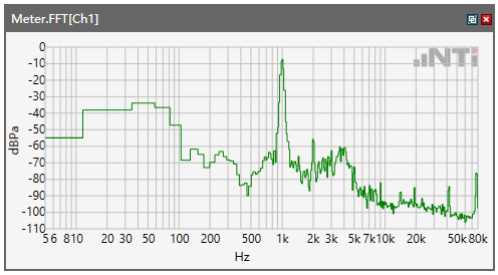
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\GSM 1900



Speech Level RCV: 91.99 dB[SPL]

Calculated Value: 21.99 dB Ok

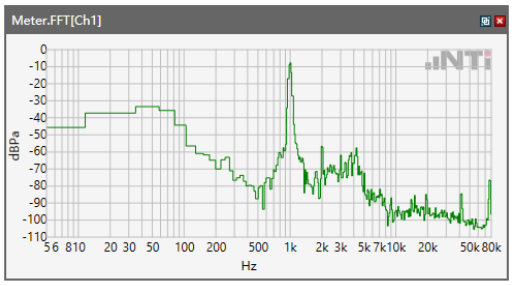
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WCDMA Band II



Speech Level RCV: 91.38 dB[SPL]

Calculated Value: 21.38 dB Ok

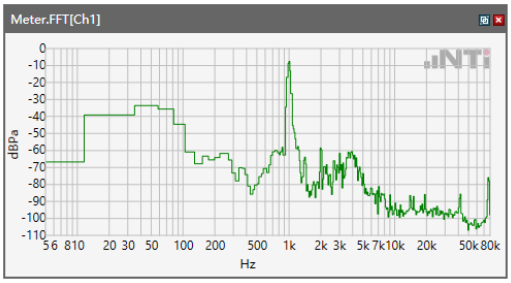
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WCDMA Band IV



Speech Level RCV: 92.04 dB[SPL]

Calculated Value: 22.04 dB Ok

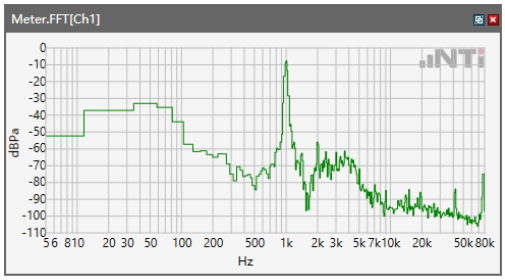
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WCDMA Band V



Speech Level RCV: 90.85 dB[SPL]

Calculated Value: 20.85 dB Ok

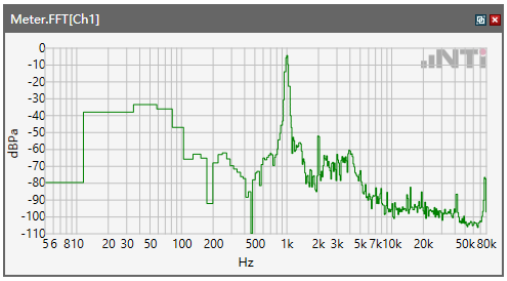
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 2



Speech Level RCV: 91.82 dB[SPL]

Calculated Value: 21.82 dB Ok

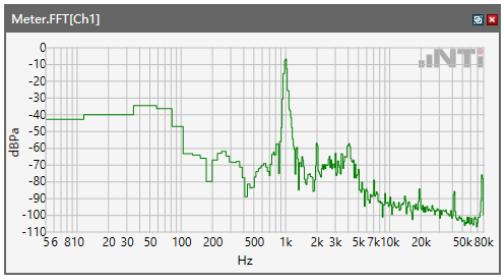
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 5



Speech Level RCV: 92.42 dB[SPL]

Calculated Value: 22.42 dB Ok

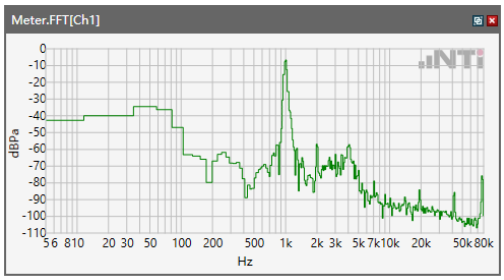
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \LTE Band 7



Speech Level RCV: 90.63 dB[SPL]

Calculated Value: 20.63 dB Ok

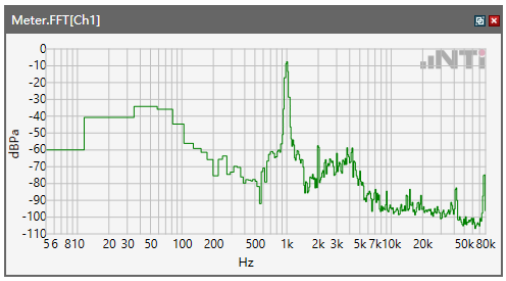
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \LTE Band 12



Speech Level RCV: 90.86 dB[SPL]

Calculated Value: 20.86 dB Ok

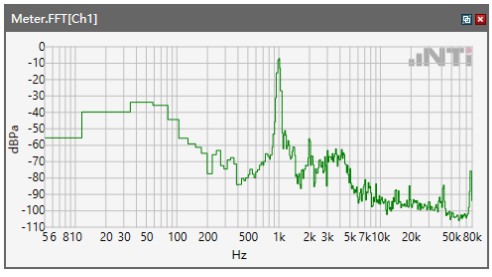
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 66



Speech Level RCV: 91.62 dB[SPL]

Calculated Value: 21.62 dB Ok

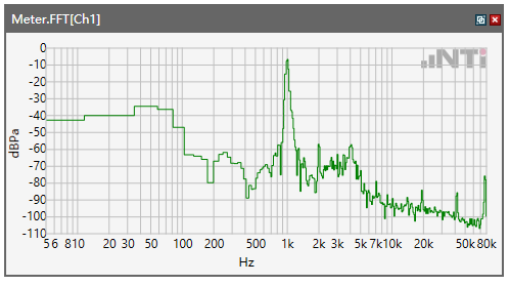
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 71



Speech Level RCV: 89.93 dB[SPL]

Calculated Value: 19.93 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 2.4GHz

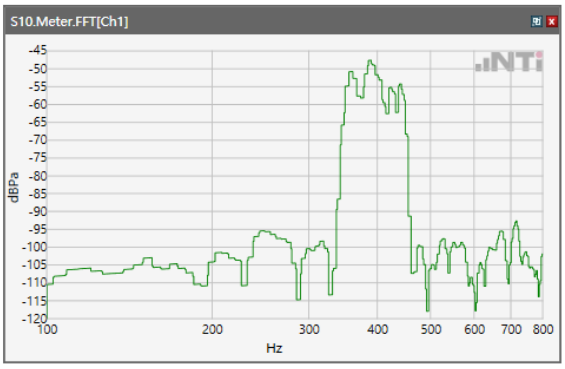


Speech Level RCV: 95.87 dB[SPL]

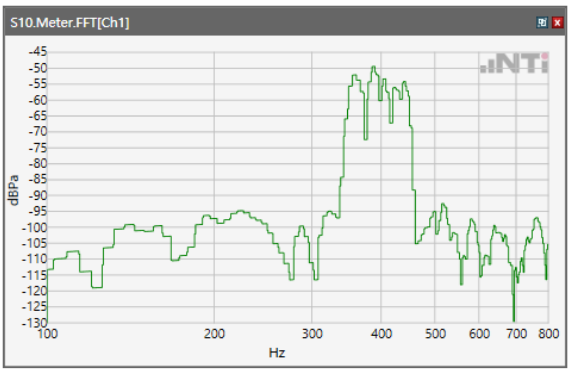
Calculated Value: 25.87 dB Ok

Receive path - distortion and noise 400Hz WB&NB

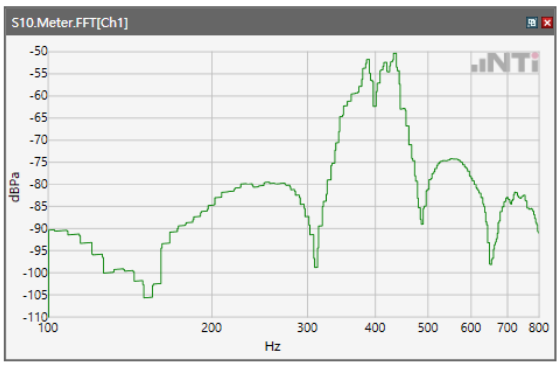
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



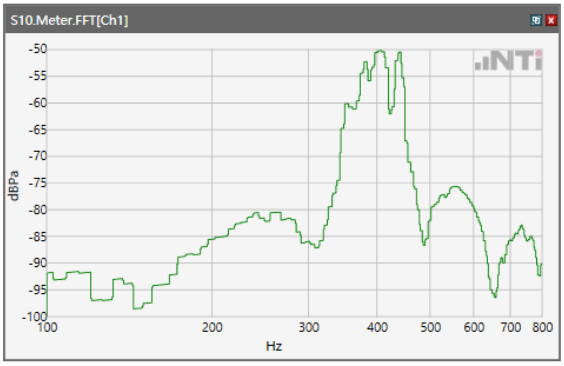
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



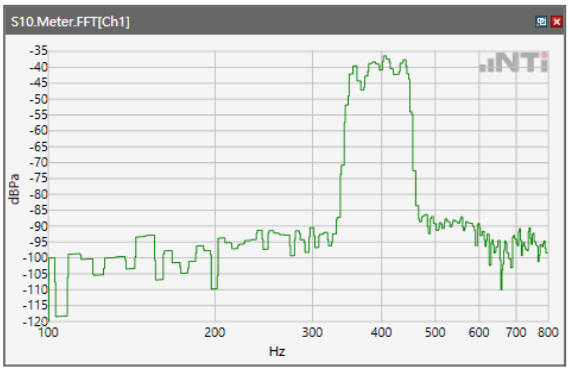
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



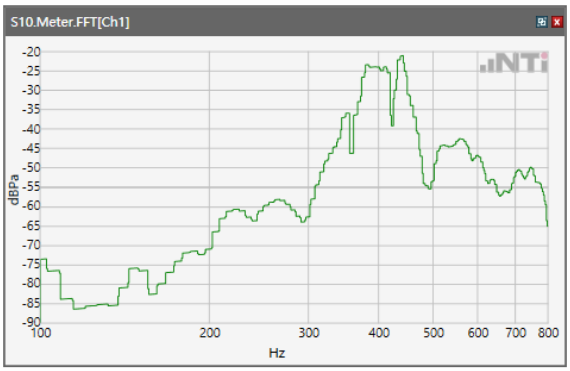
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



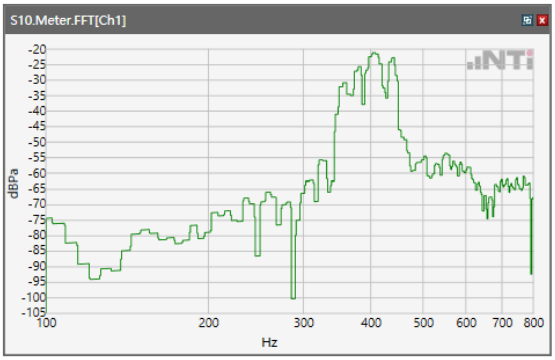
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



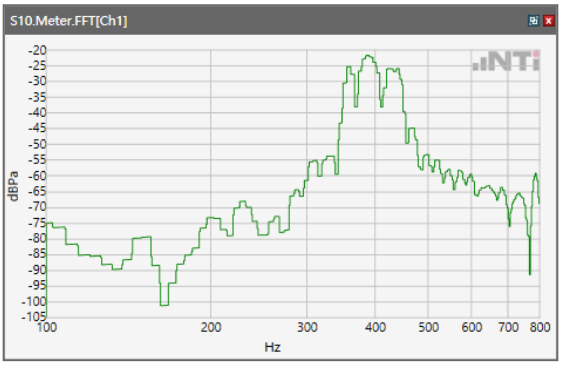
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



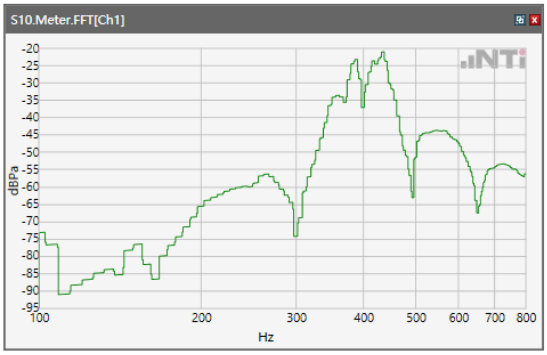
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



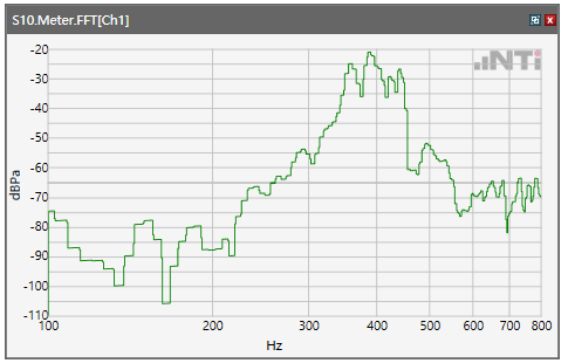
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



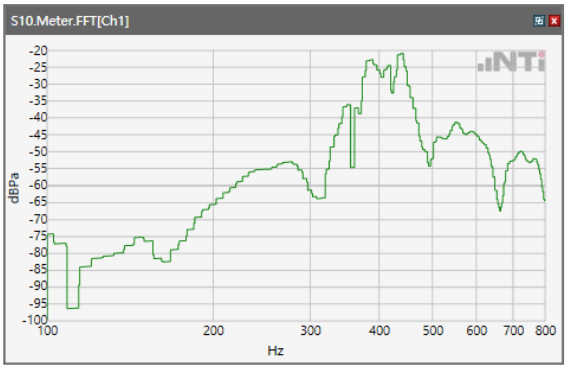
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



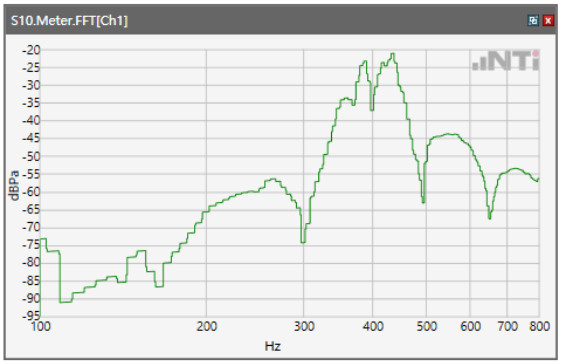
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

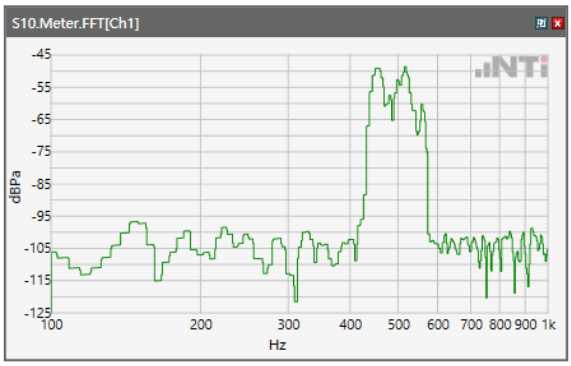


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

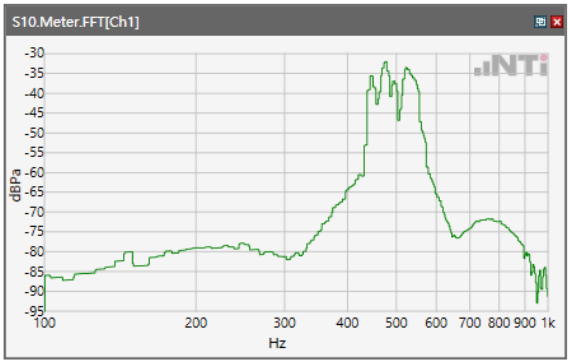


Receive path - distortion and noise 500Hz WB&NB

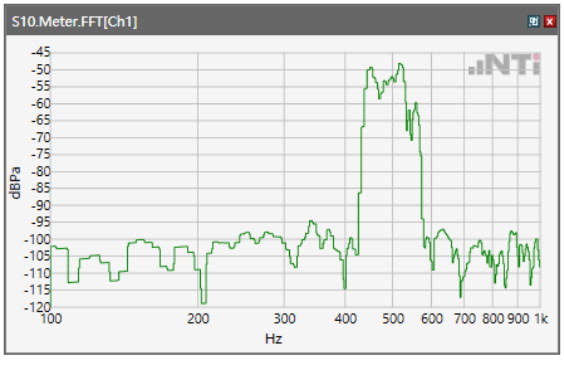
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



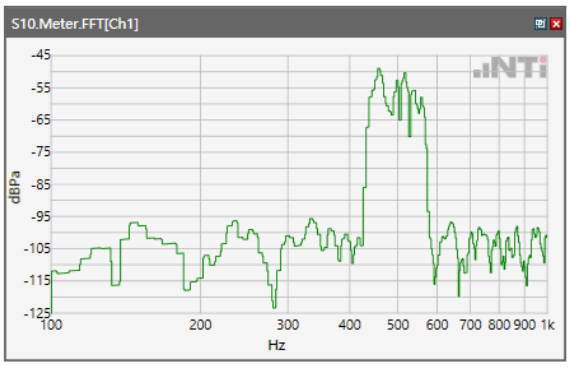
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



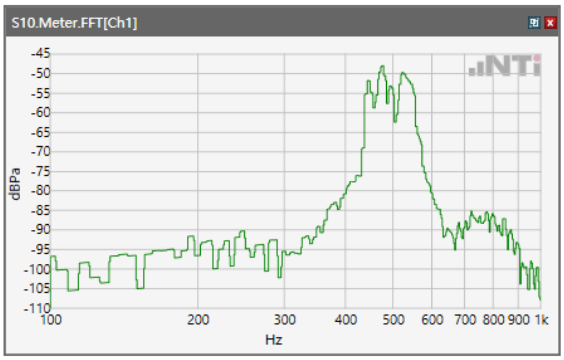
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



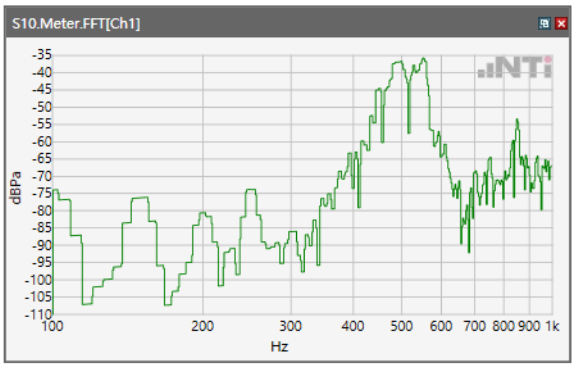
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



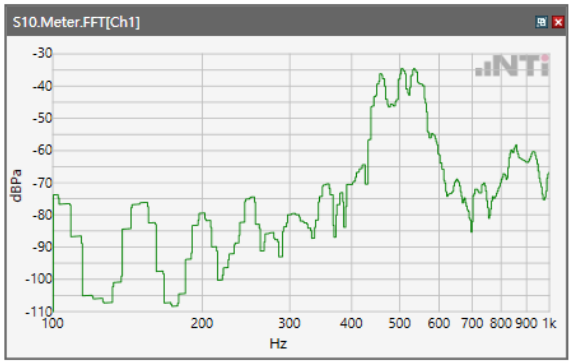
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



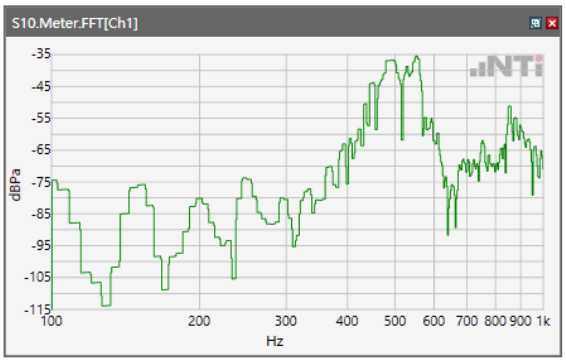
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



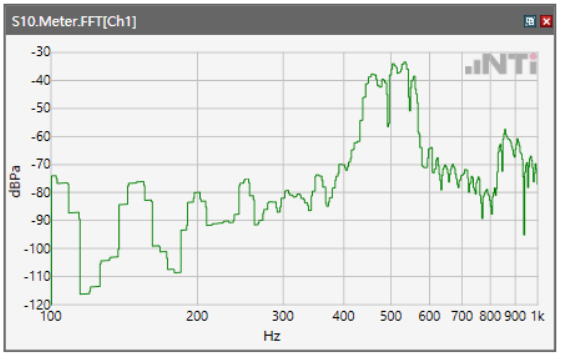
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



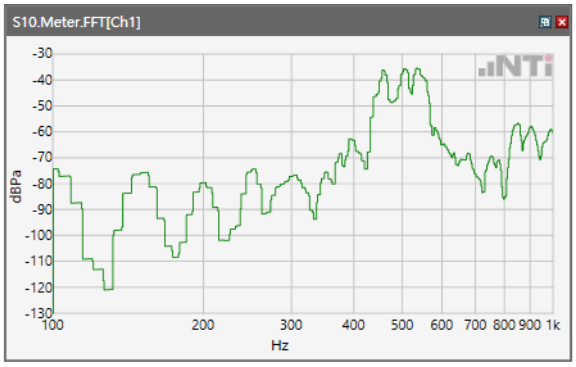
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



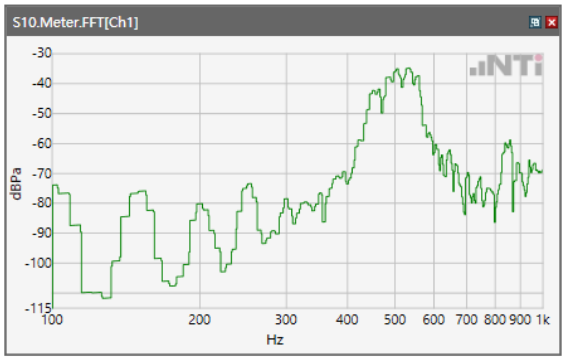
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



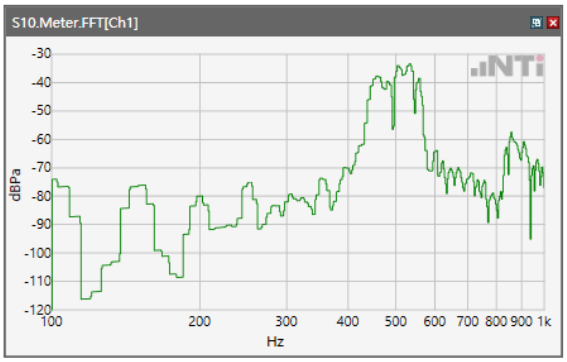
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

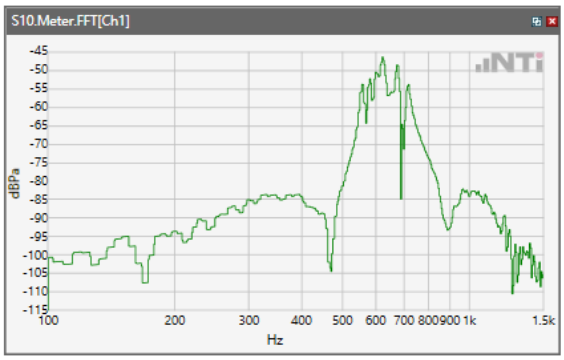


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

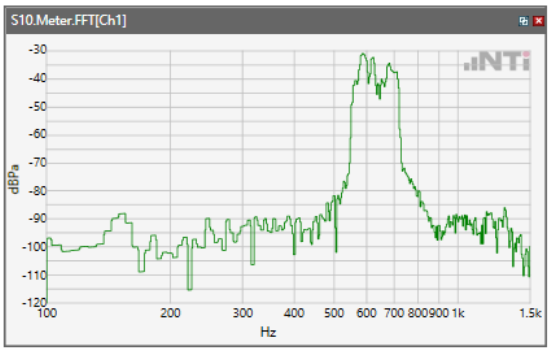


Receive path - distortion and noise 630Hz WB&NB

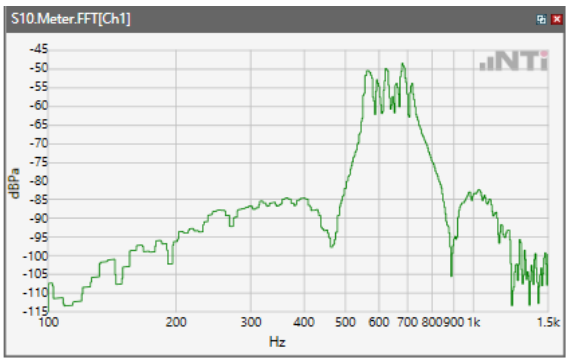
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



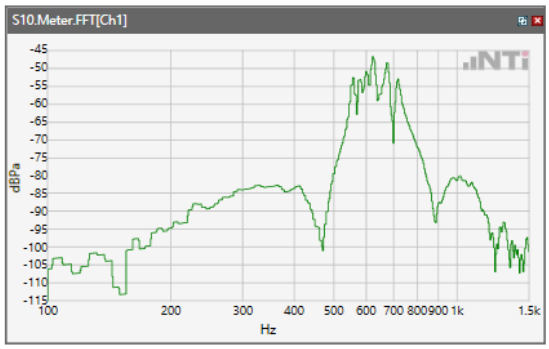
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



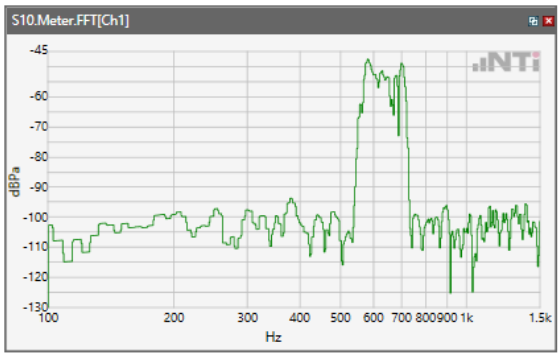
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



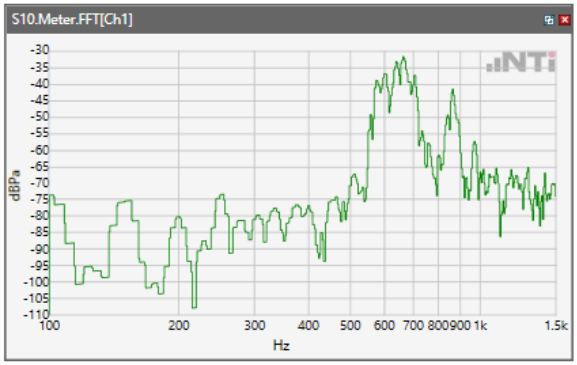
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



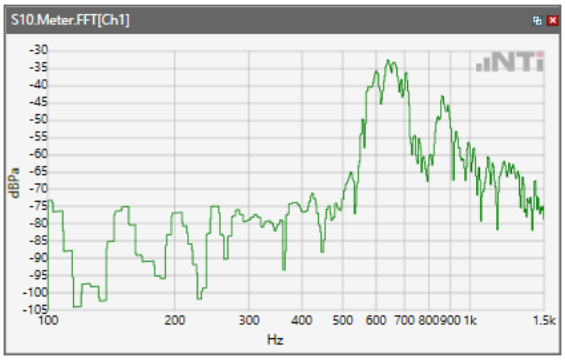
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



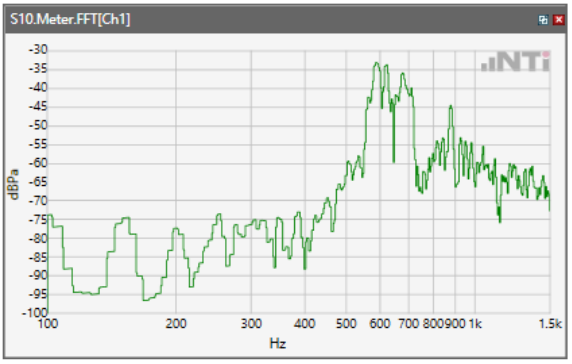
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



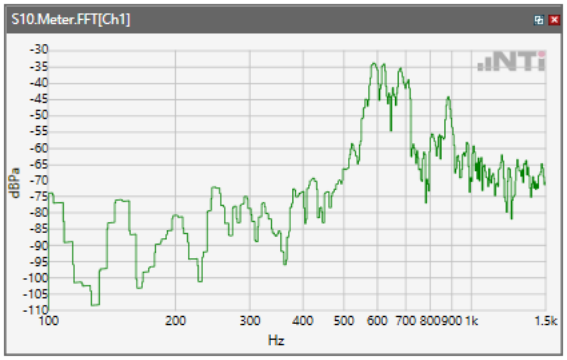
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



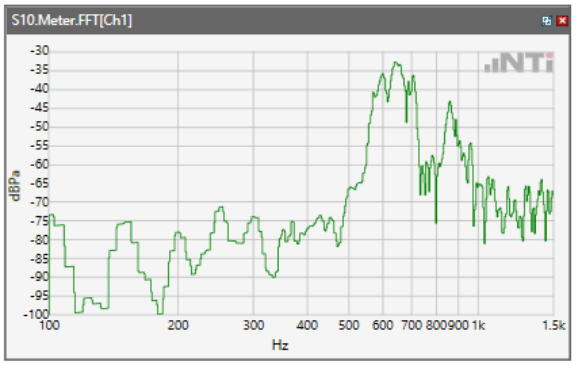
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



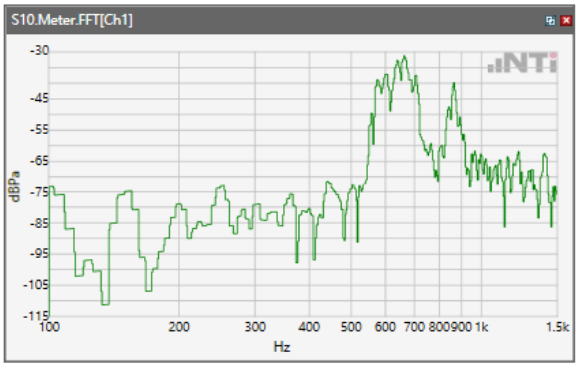
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



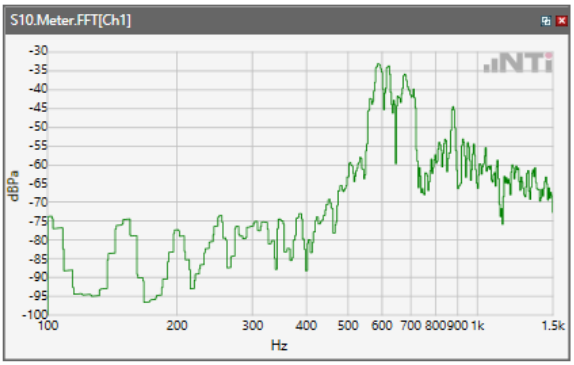
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

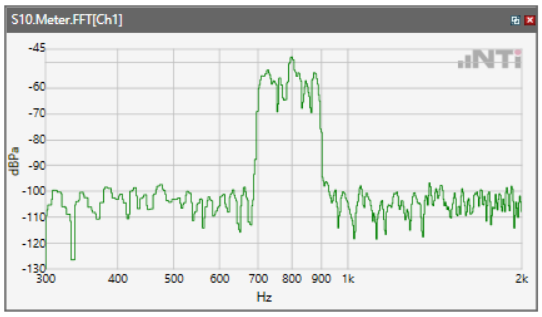


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

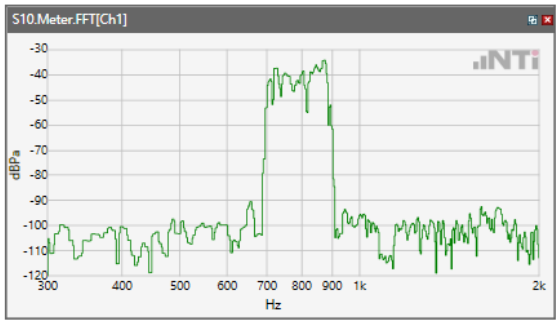


Receive path - distortion and noise 800Hz WB&NB

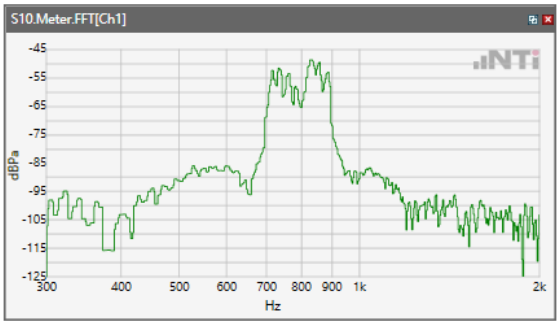
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



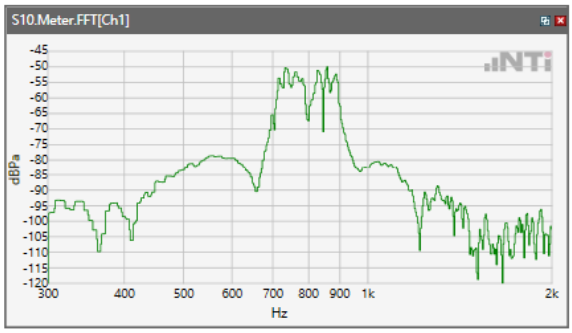
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



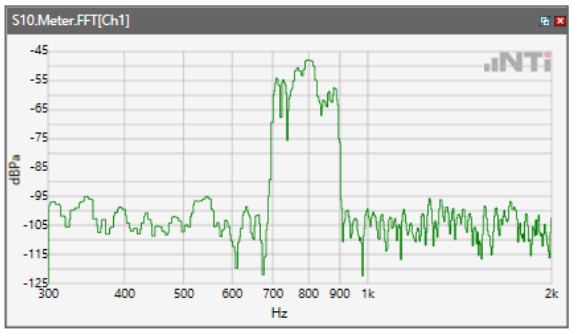
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



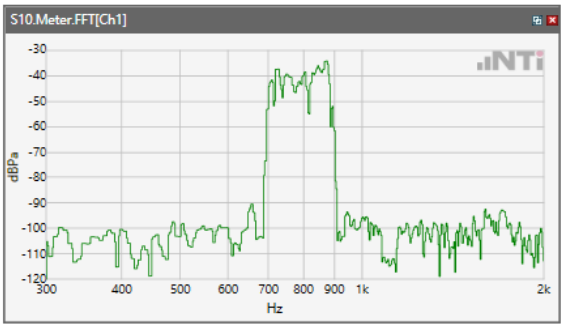
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



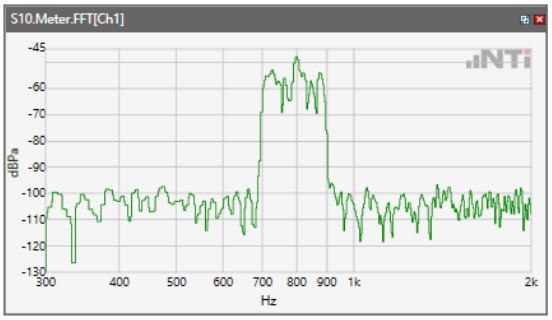
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



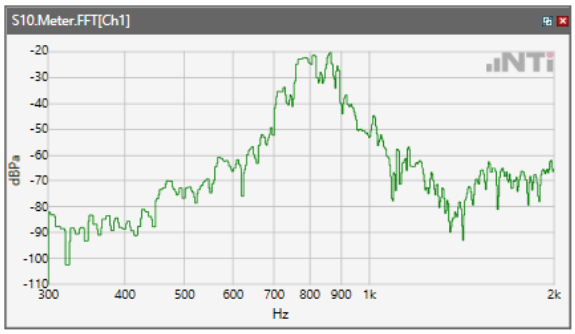
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



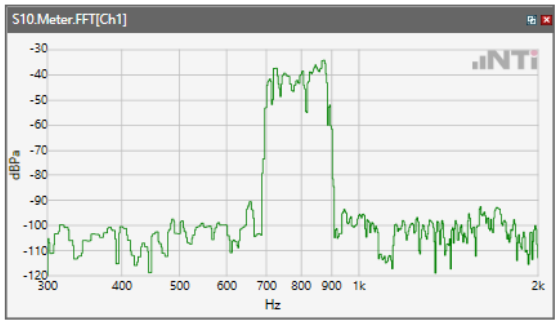
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



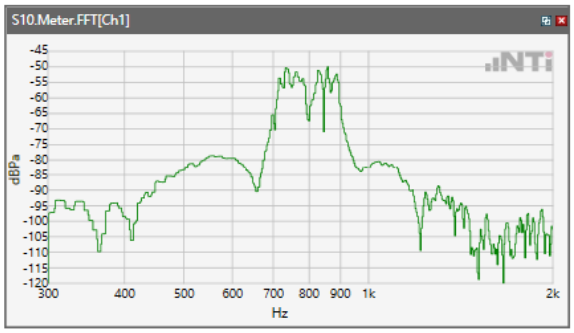
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



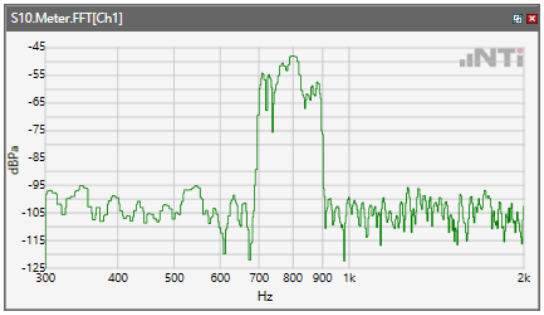
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



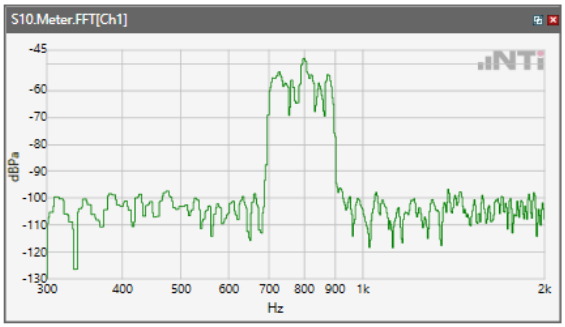
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

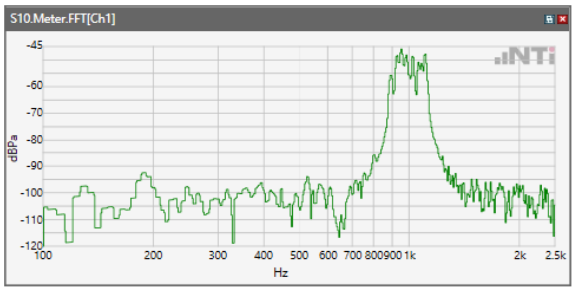


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

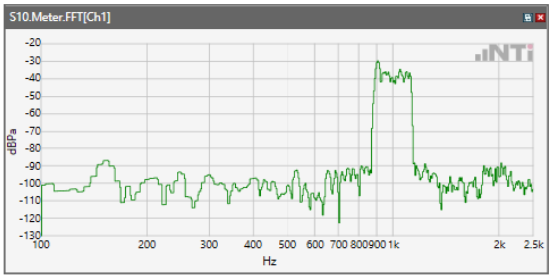


Receive path - distortion and noise 1000Hz WB&NB

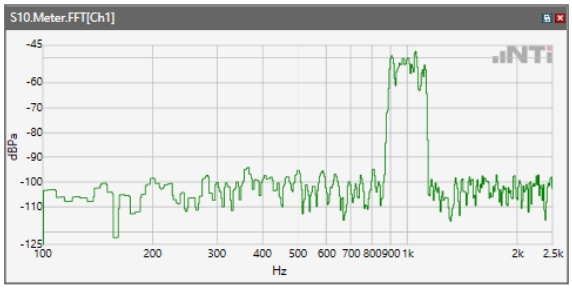
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



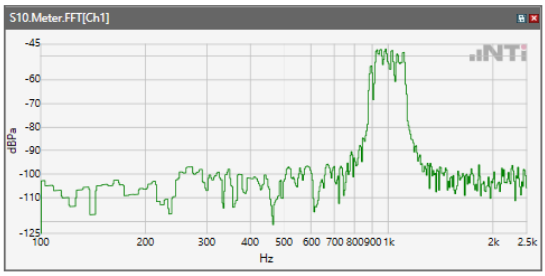
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



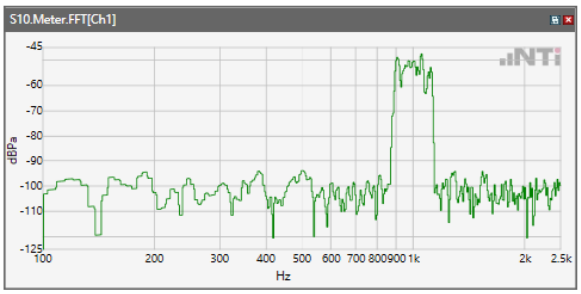
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



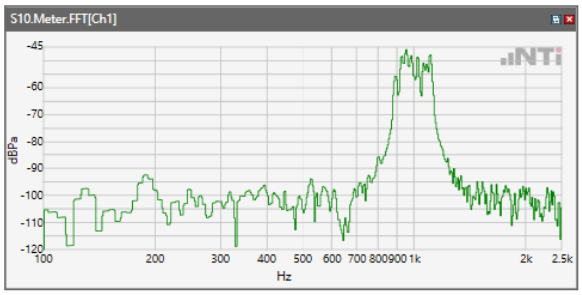
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



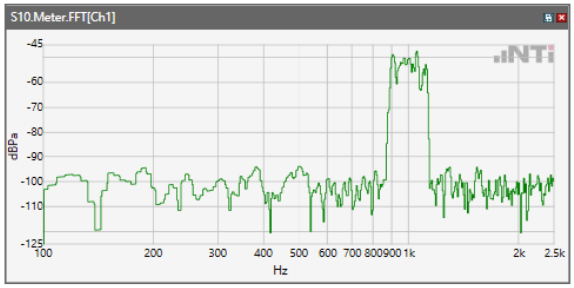
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



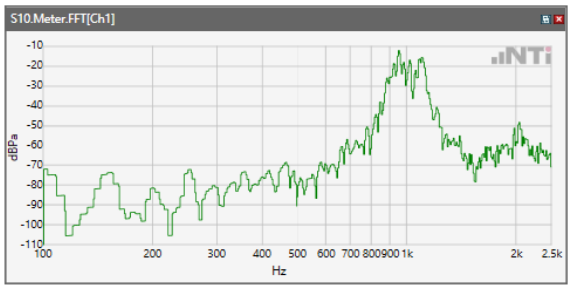
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



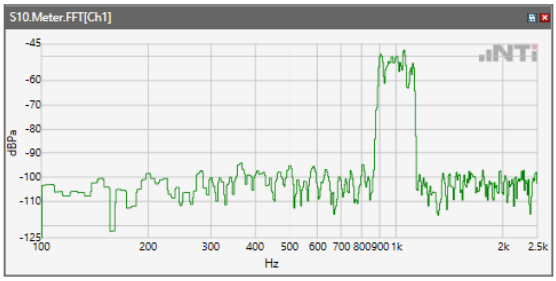
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



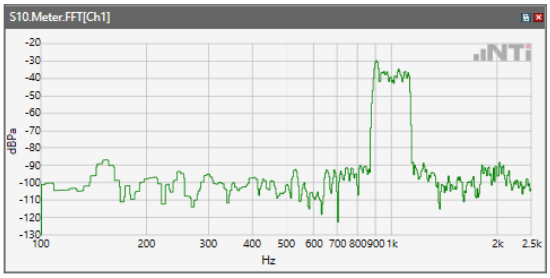
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



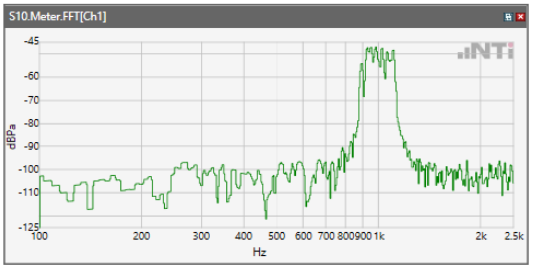
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



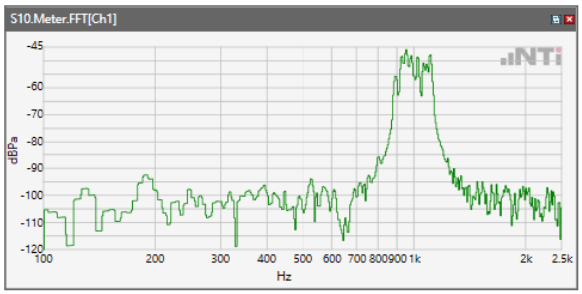
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

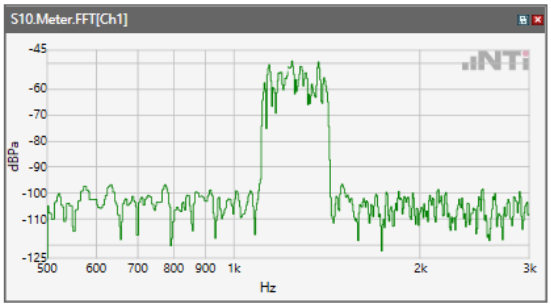


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

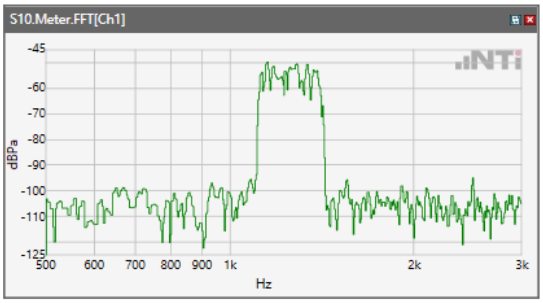


Receive path - distortion and noise 1250Hz WB&NB

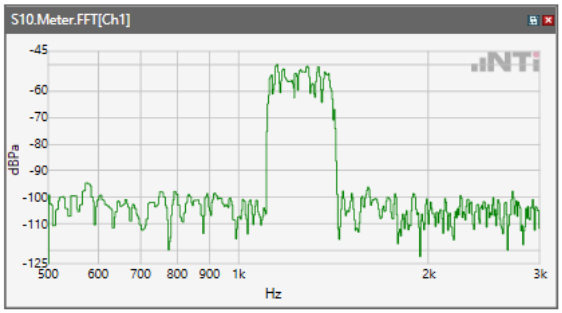
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



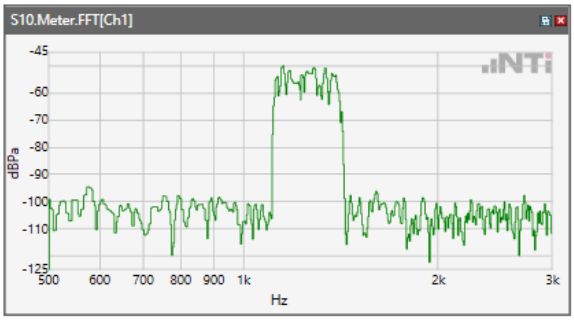
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



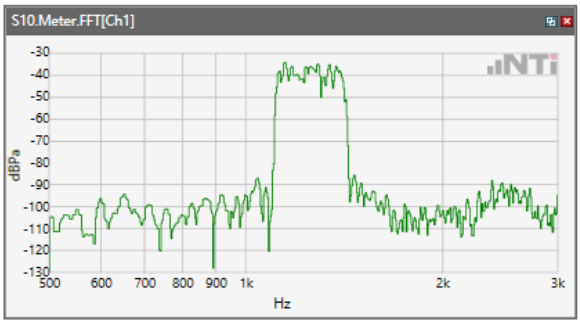
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



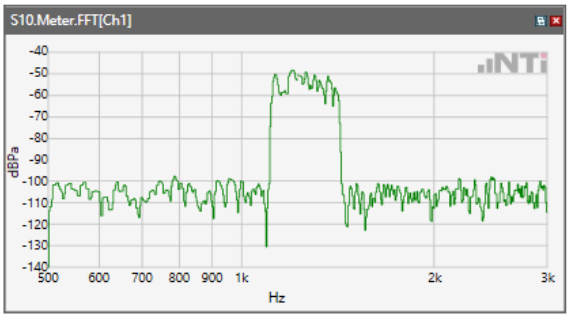
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



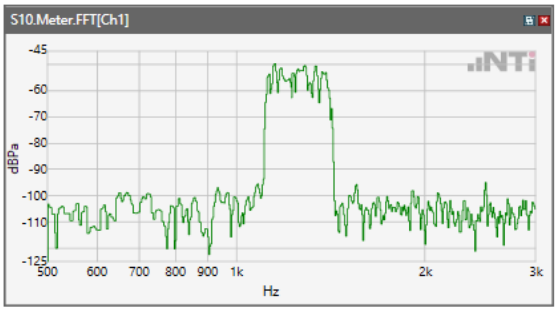
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



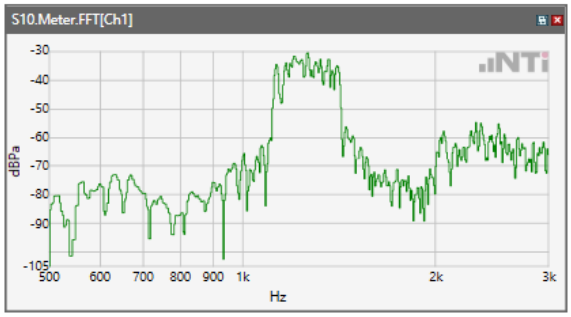
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



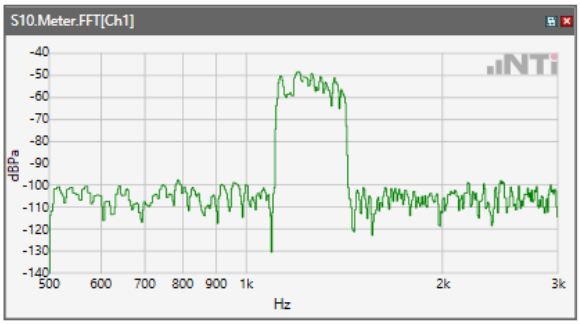
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



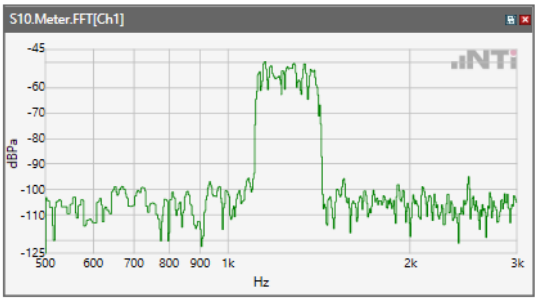
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



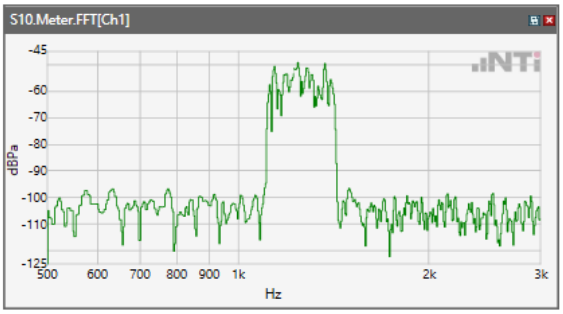
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



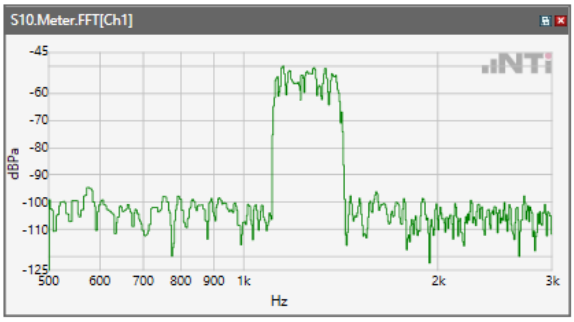
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

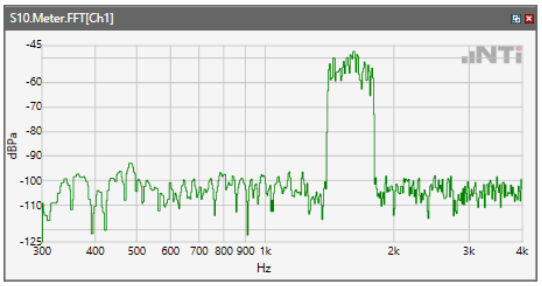


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

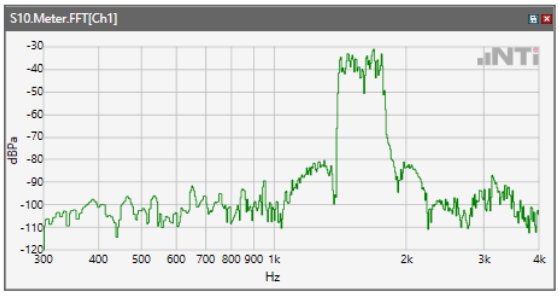


Receive path - distortion and noise 1600Hz WB&NB

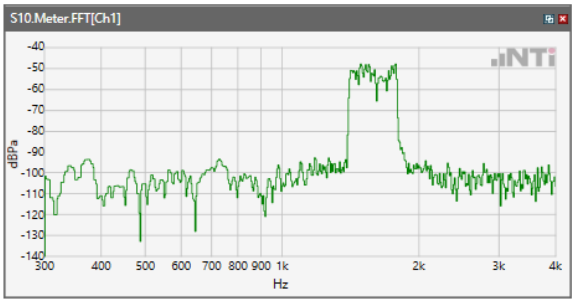
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



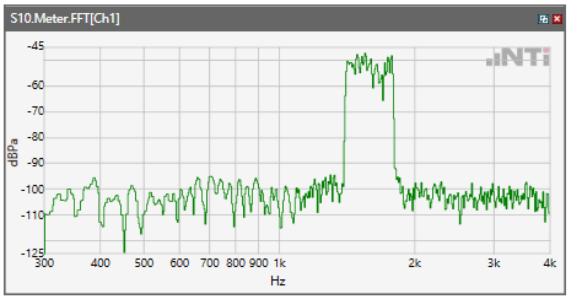
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



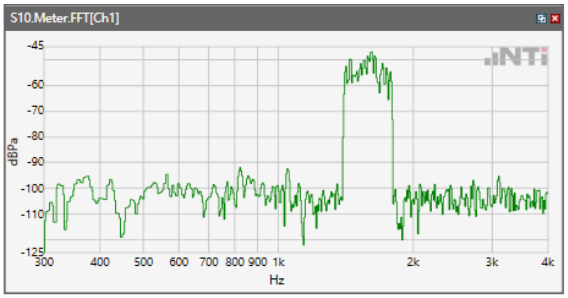
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



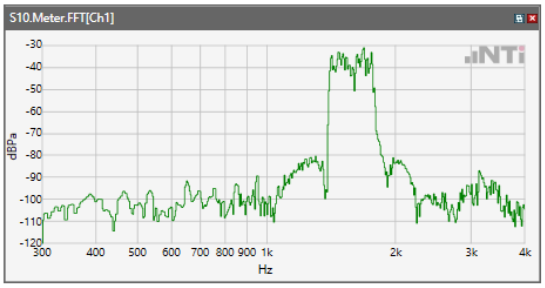
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



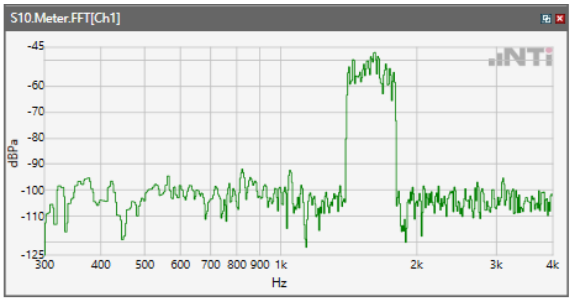
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



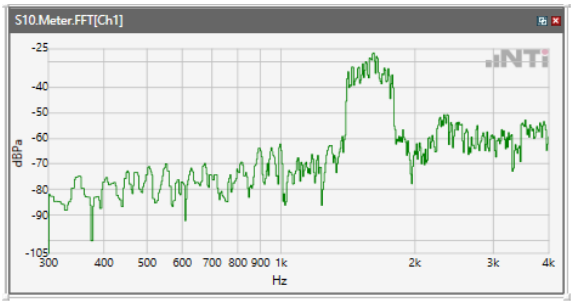
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



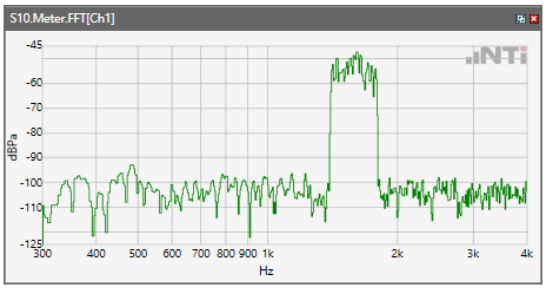
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



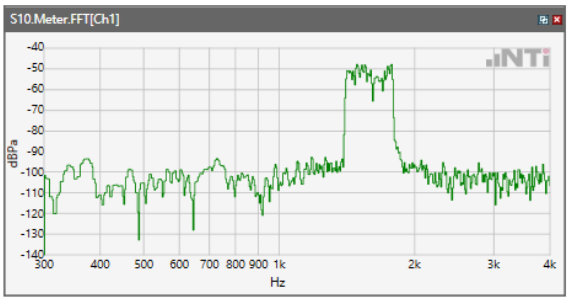
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



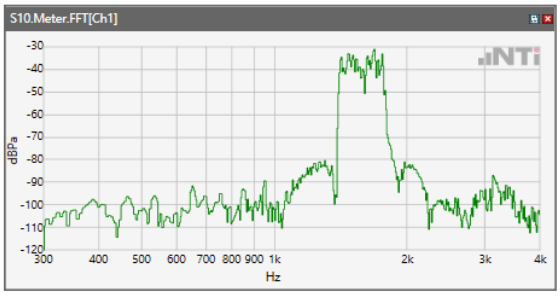
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



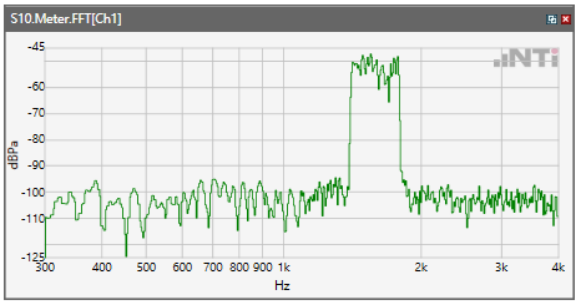
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

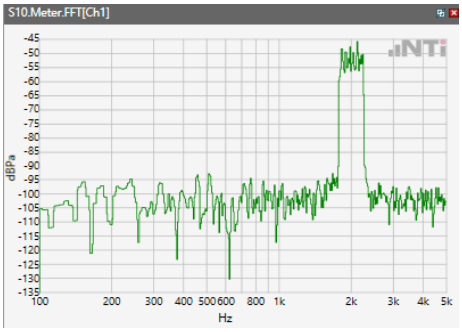


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

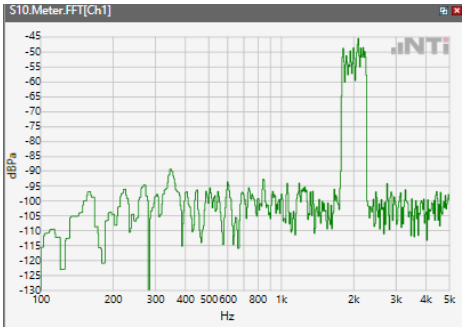


Receive path - distortion and noise 2000Hz WB&NB

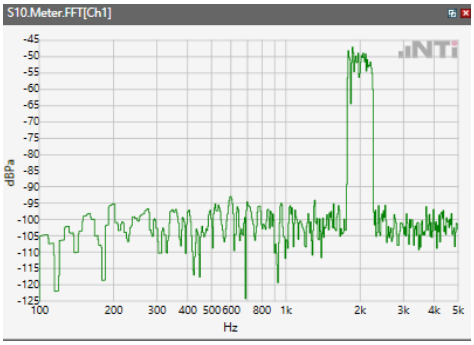
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



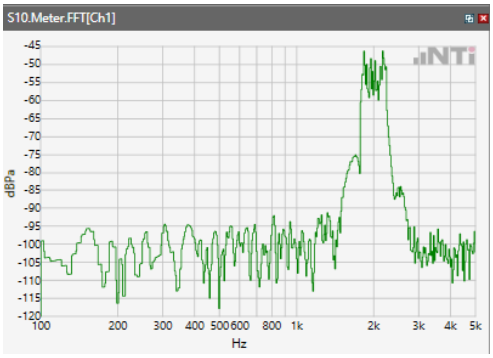
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



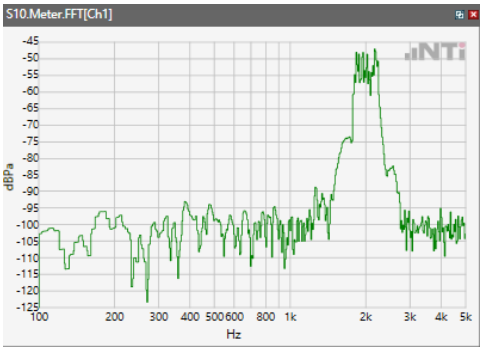
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



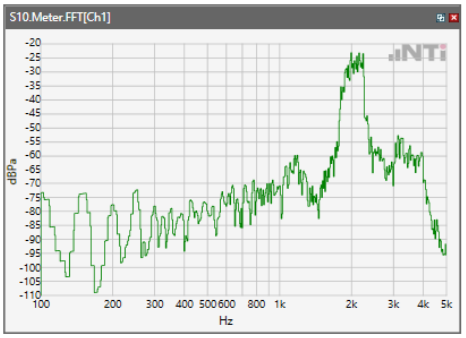
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



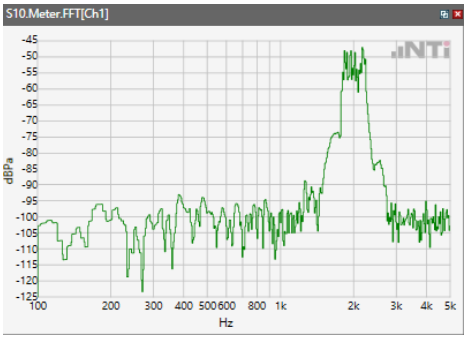
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



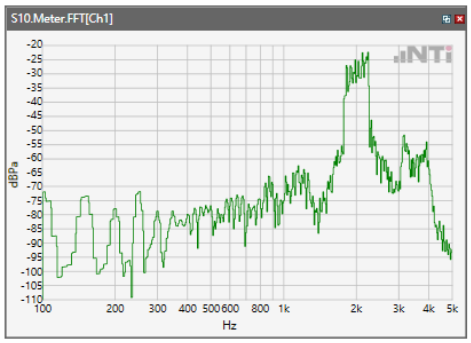
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



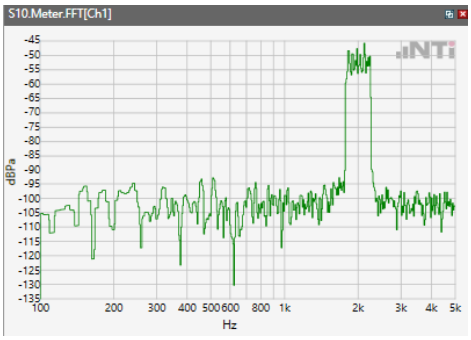
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



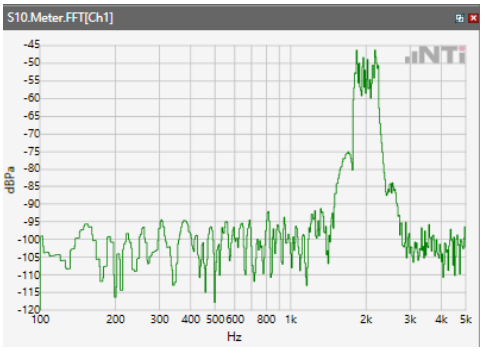
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



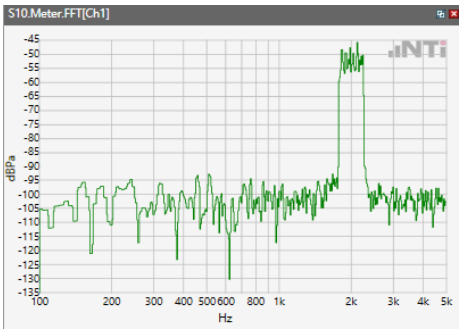
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



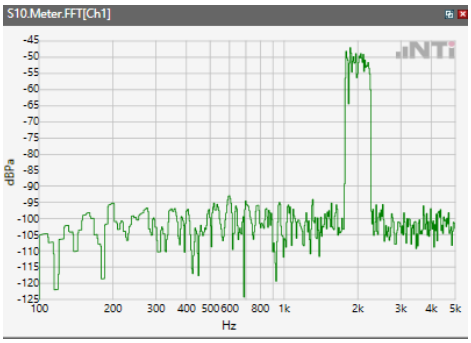
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

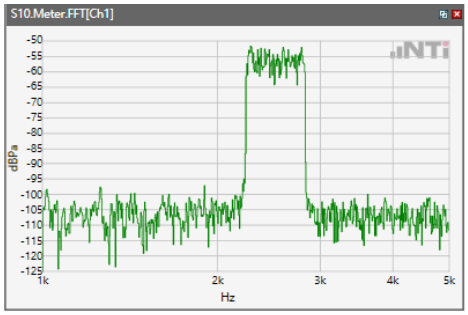


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

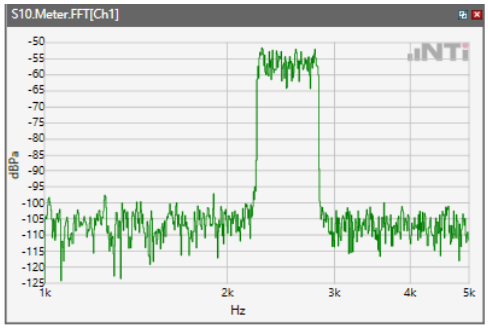


Receive path - distortion and noise 2500Hz WB&NB

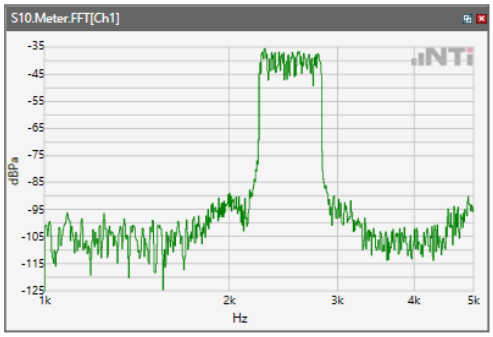
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



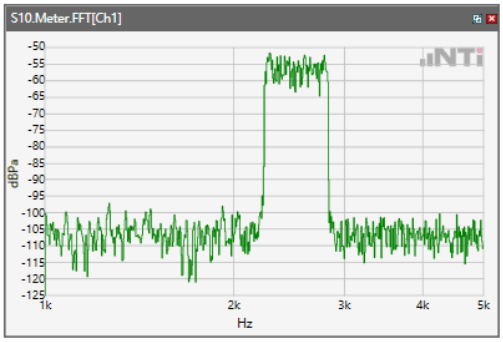
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



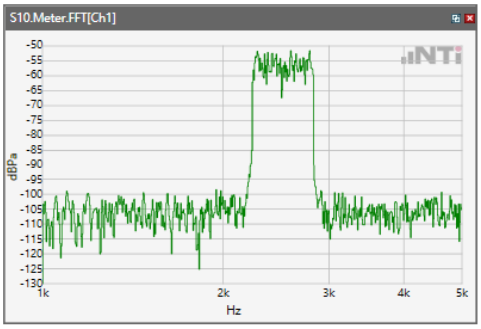
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



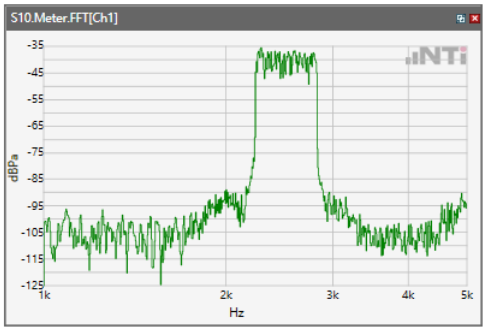
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



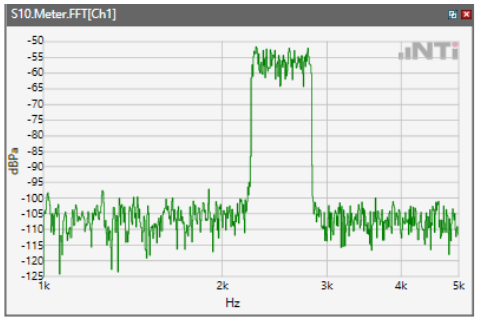
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



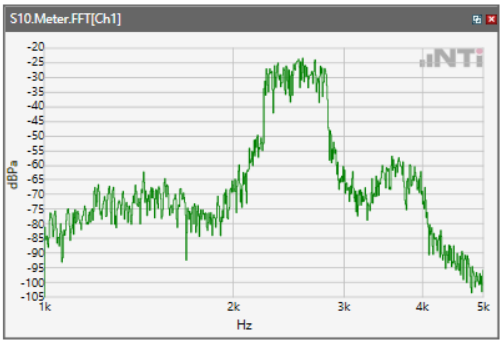
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



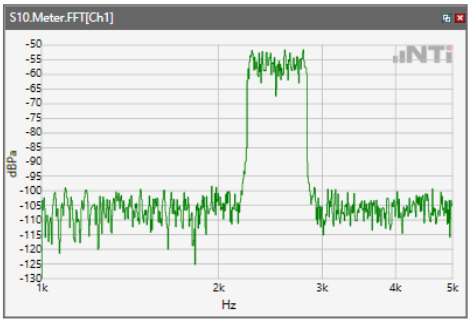
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



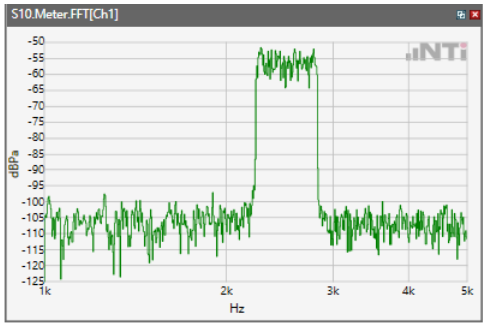
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



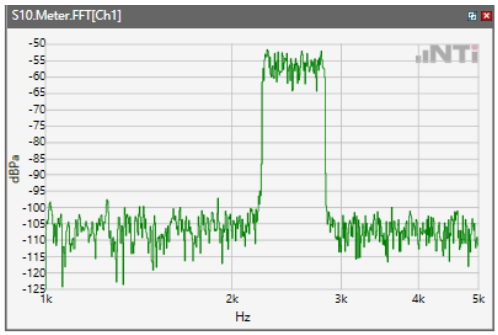
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



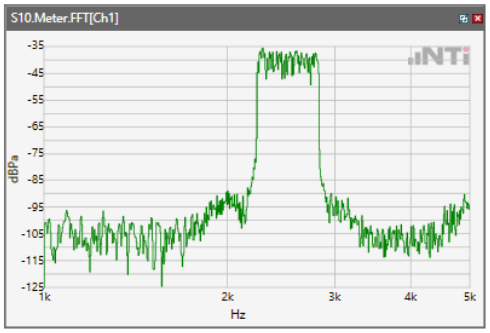
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71

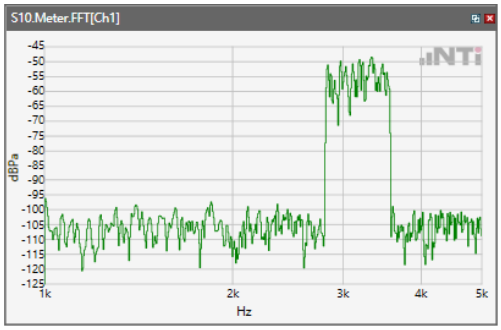


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

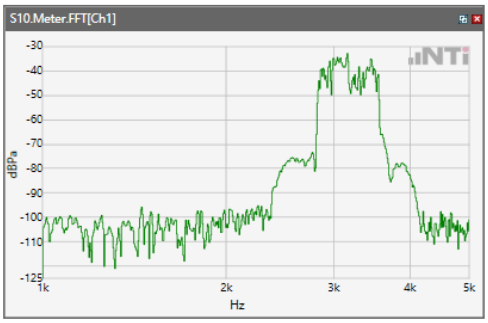


Receive path - distortion and noise 3150Hz WB&NB

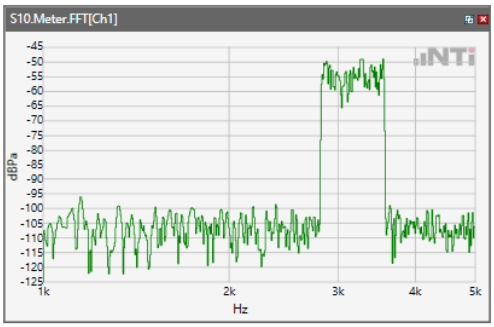
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



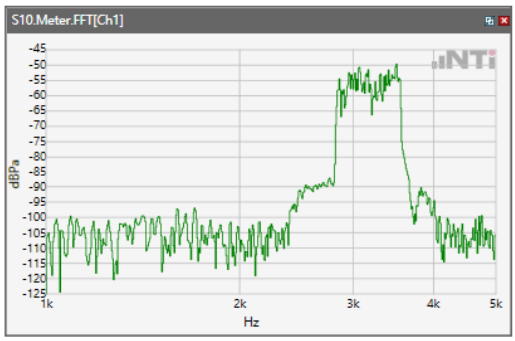
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



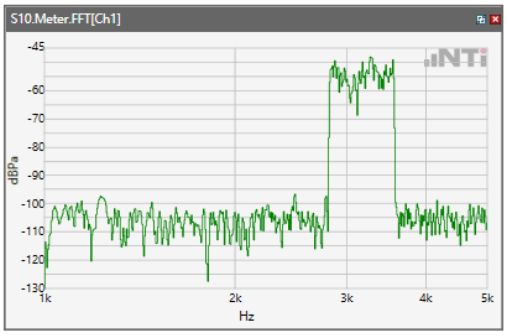
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



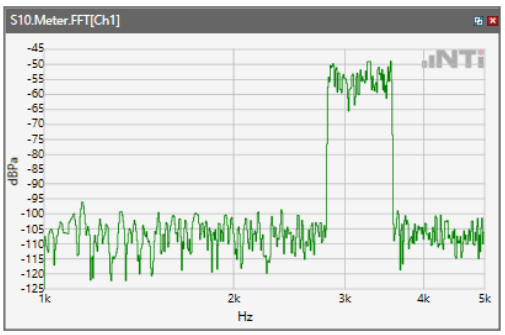
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



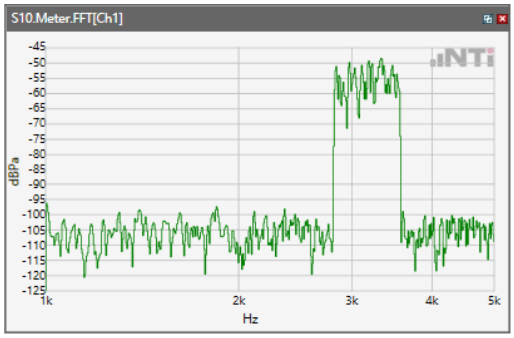
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



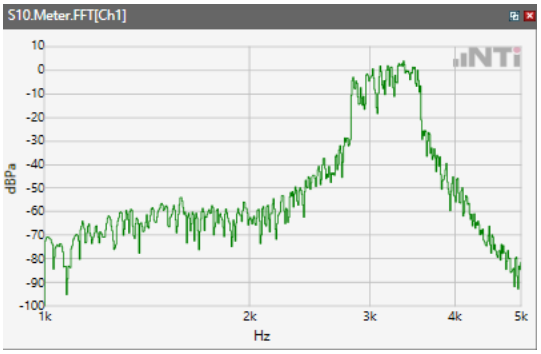
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



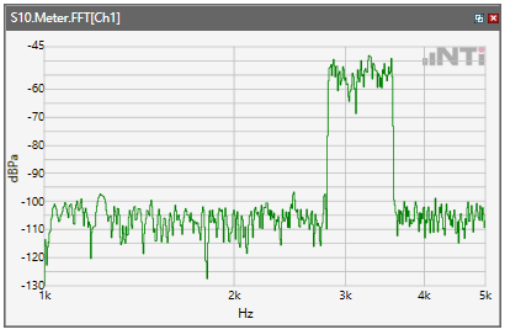
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



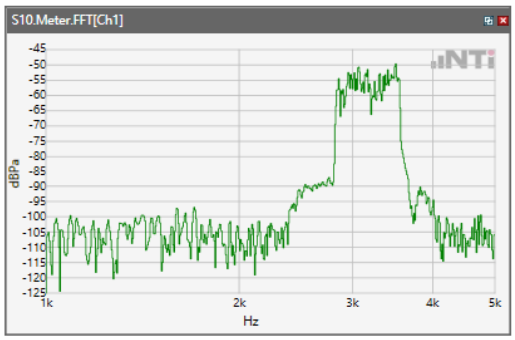
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



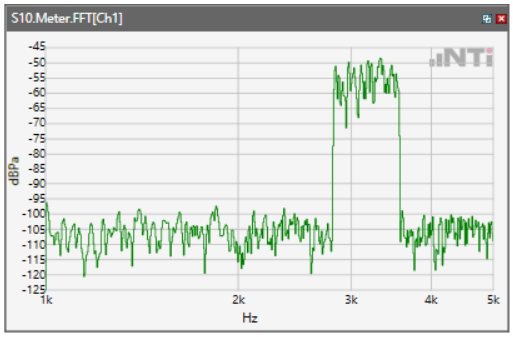
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



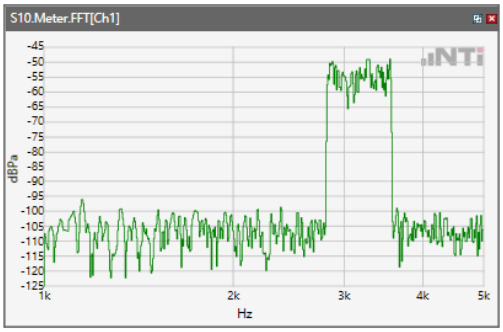
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 71



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



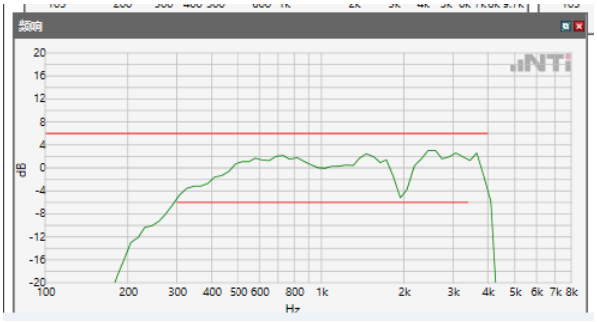
5.2 Receive path – distortion and noise

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

5.3 Receive Acoustic Frequency response Performance

Eg:

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\GSM 850



Absolute minimal distance

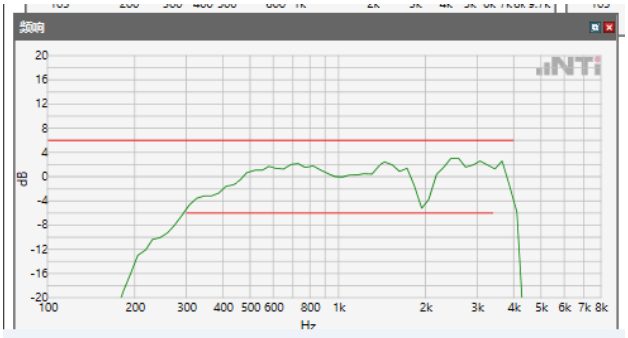
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\GSM 1900



Absolute minimal distance

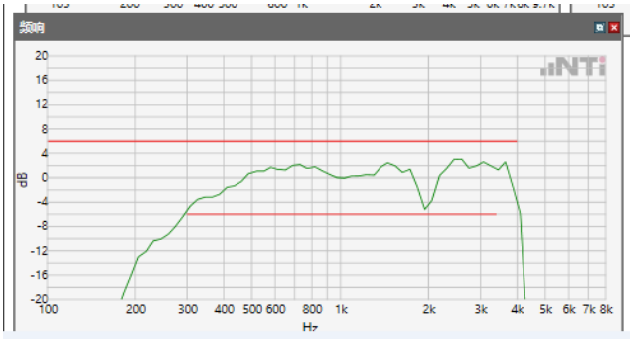
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WCDMA Band II



Absolute minimal distance

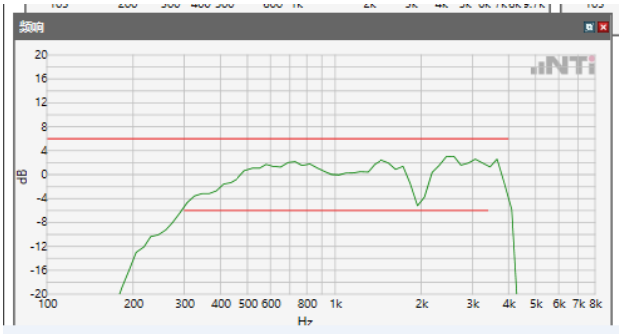
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ WCDMA Band IV



Absolute minimal distance

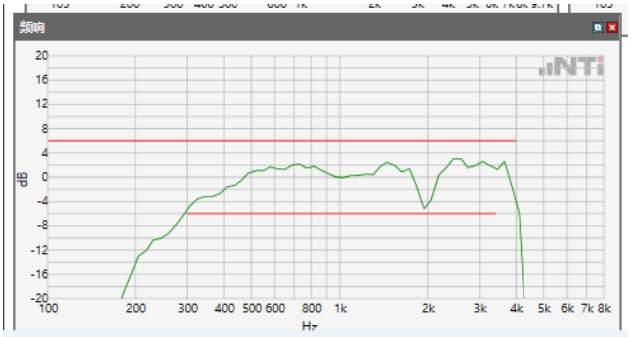
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ WCDMA Band V



Absolute minimal distance

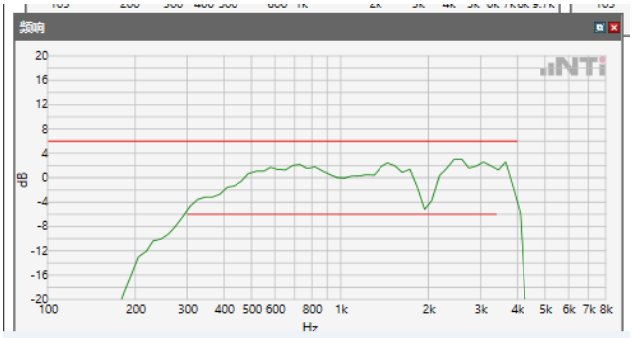
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 2



Absolute minimal distance

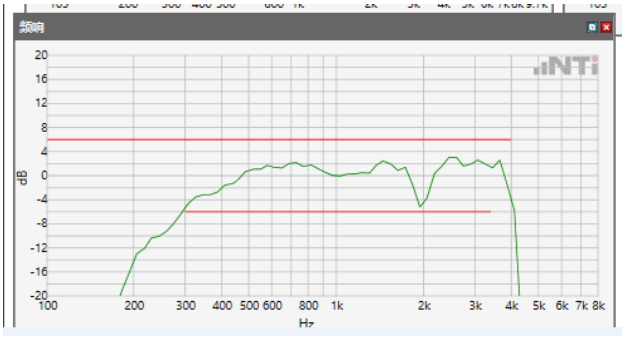
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 5



Absolute minimal distance

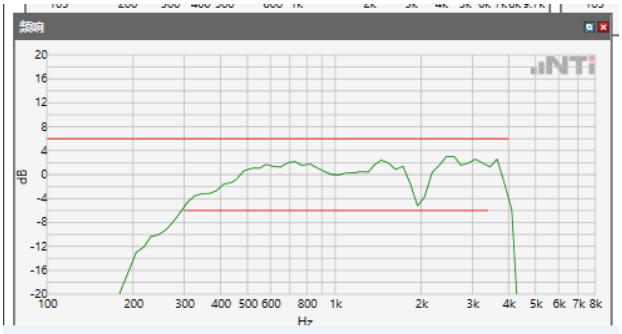
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 7



Absolute minimal distance

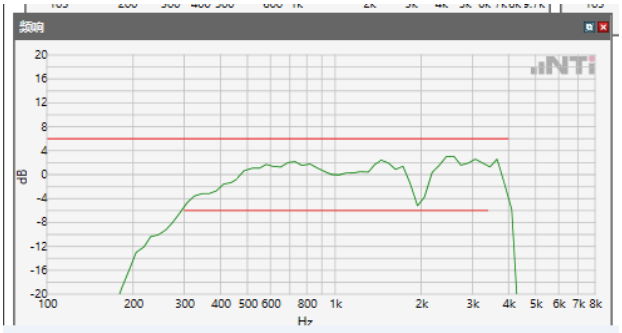
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 12



Absolute minimal distance

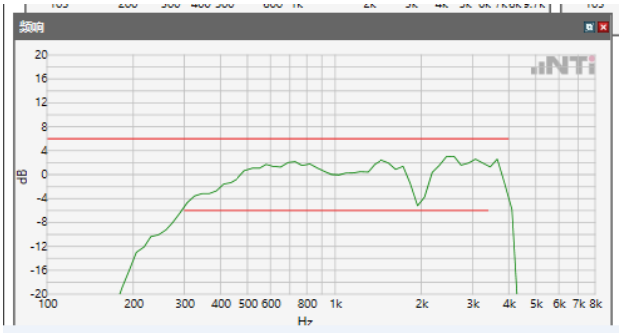
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 66



Absolute minimal distance

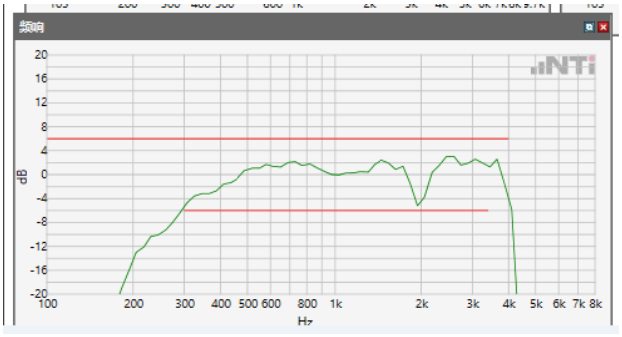
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 71



Absolute minimal distance

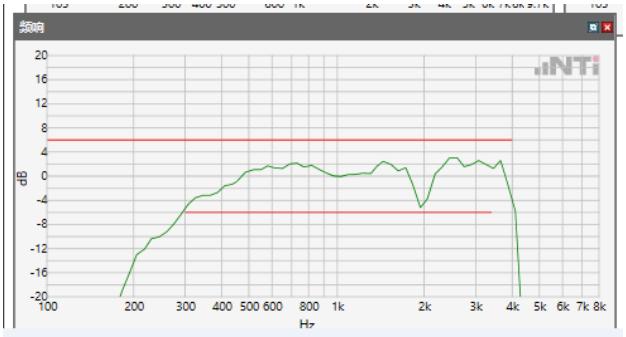
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 2.4GHz



Absolute minimal distance

OK

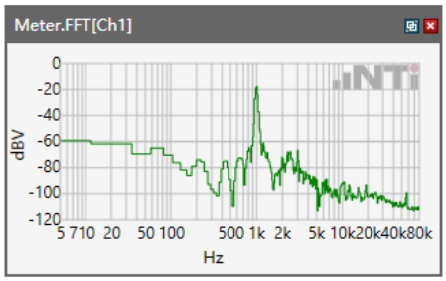
OK

Limits

	lower
Run 1	Fit into tolerance

5.1 Receive Volume Control Performance 8N---WB

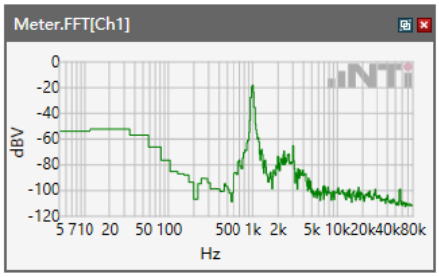
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \GSM 850



Speech Level RCV:88.68 dB[SPL]

Calculated Value: 18.68 dB Ok

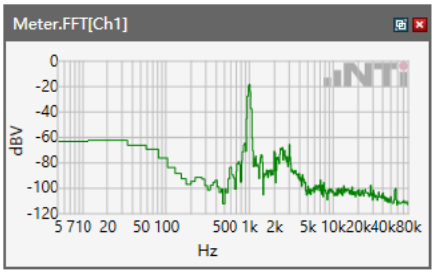
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \GSM 1900



Speech Level RCV: 91.03 dB[SPL]

Calculated Value: 21.03 dB Ok

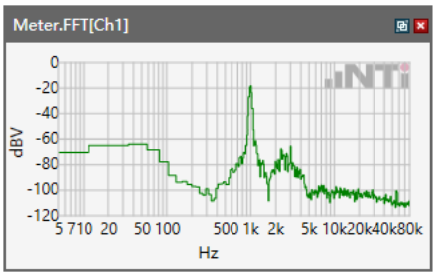
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WCDMA Band II



Speech Level RCV: 88.72 dB[SPL]

Calculated Value: 18.72 dB Ok

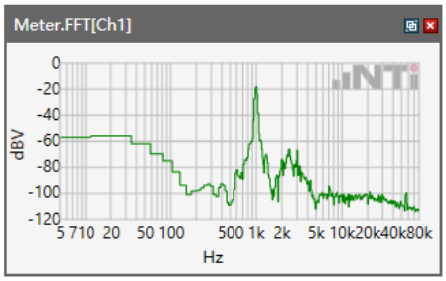
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WCDMA Band IV



Speech Level RCV: 89.76 dB[SPL]

Calculated Value: 19.76 dB Ok

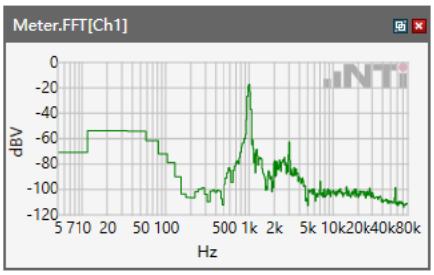
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WCDMA Band V



Speech Level RCV: 90.11 dB[SPL]

Calculated Value: 20.11 dB Ok

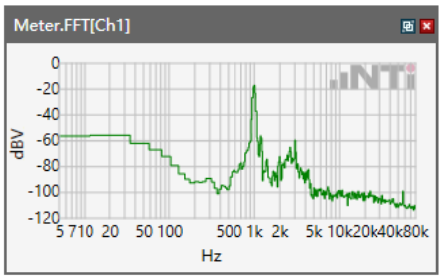
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 2



Speech Level RCV: 90.81 dB[SPL]

Calculated Value: 20.81 dB Ok

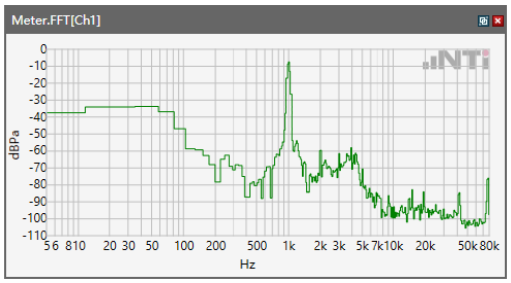
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 5



Speech Level RCV: 91.47 dB[SPL]

Calculated Value: 21.47 dB Ok

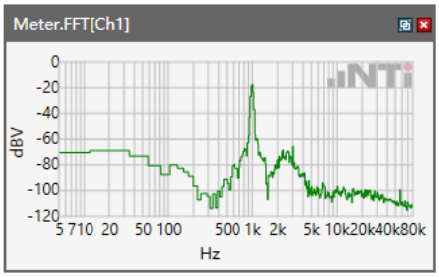
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 7



Speech Level RCV: 89.62 dB[SPL]

Calculated Value: 19.62 dB Ok

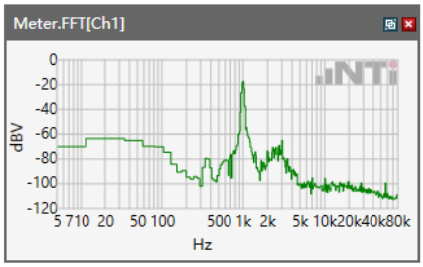
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 12



Speech Level RCV: 89.77 dB[SPL]

Calculated Value: 19.77 dB Ok

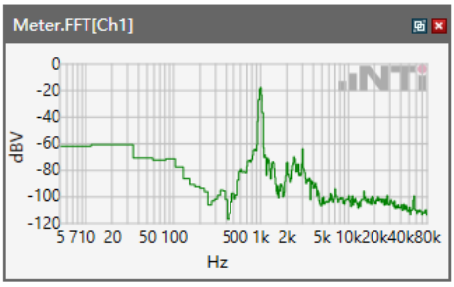
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 66



Speech Level RCV: 90.9 dB[SPL]

Calculated Value: 20.9 dB Ok

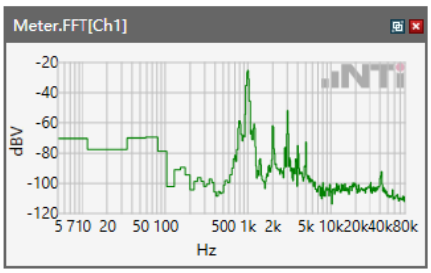
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 71



Speech Level RCV: 89.23 dB[SPL]

Calculated Value: 19.23 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WLAN 2.4GHz

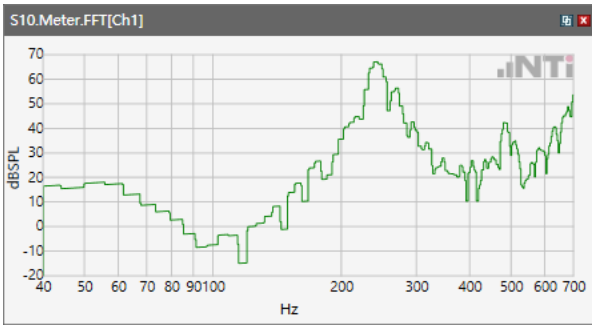


Speech Level RCV: 94.47 dB[SPL]

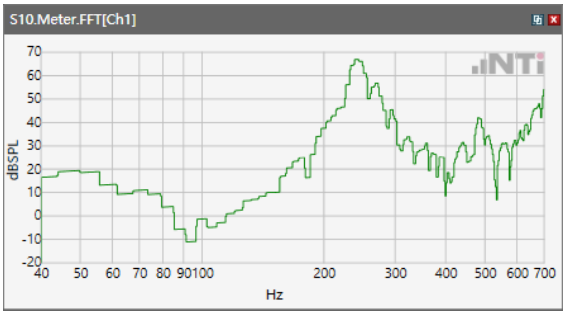
Calculated Value: 24.47 dB Ok

Receive path - distortion and noise 250 WB only

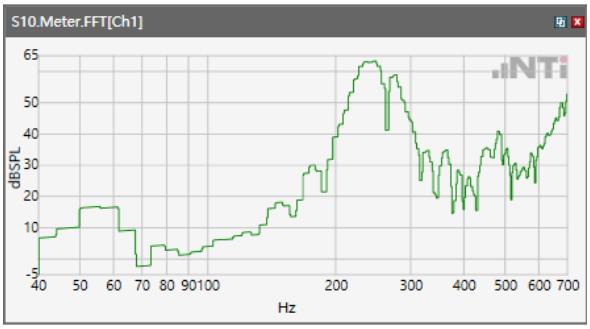
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



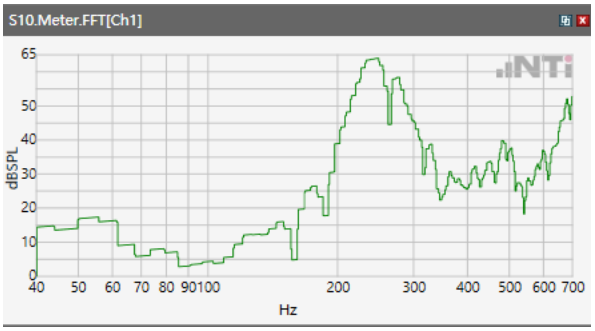
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



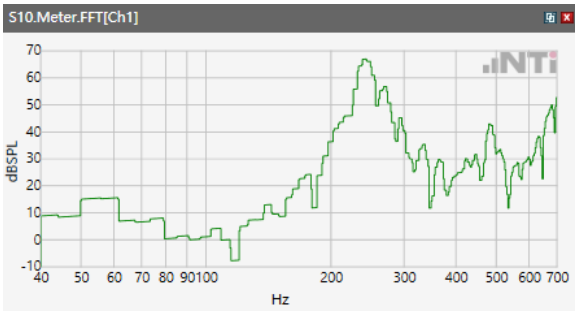
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



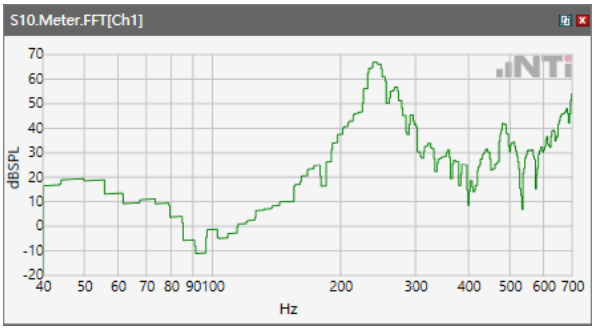
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



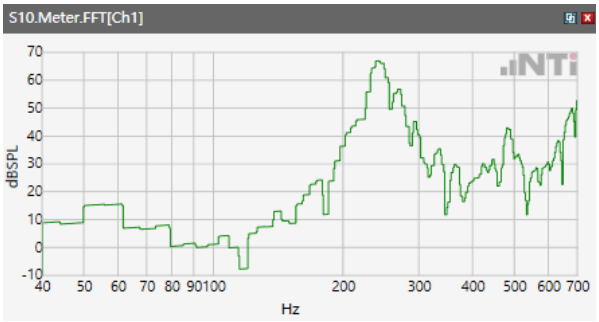
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



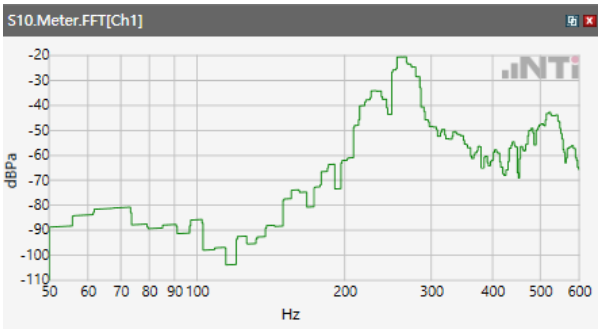
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



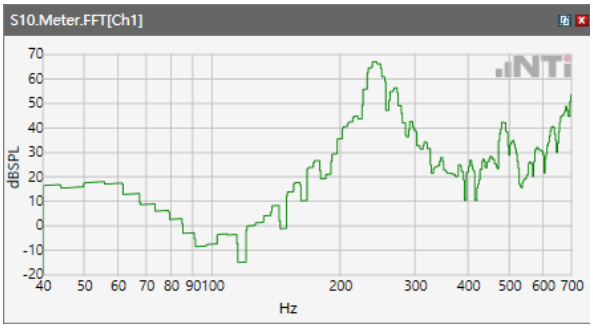
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



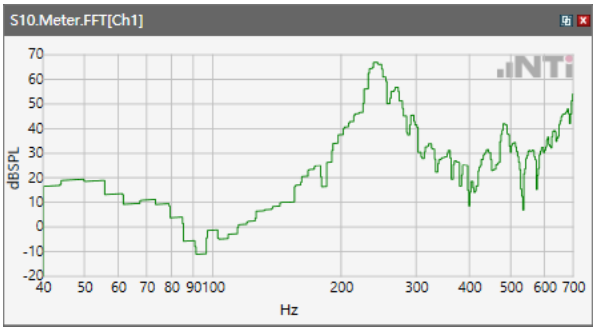
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



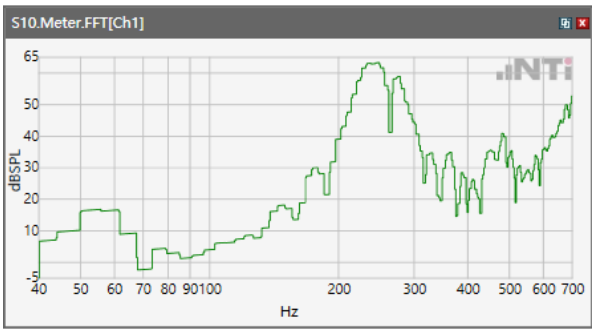
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



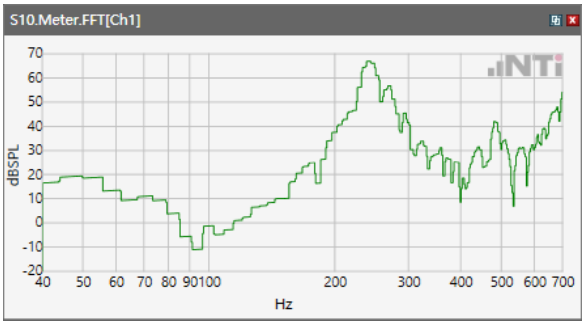
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

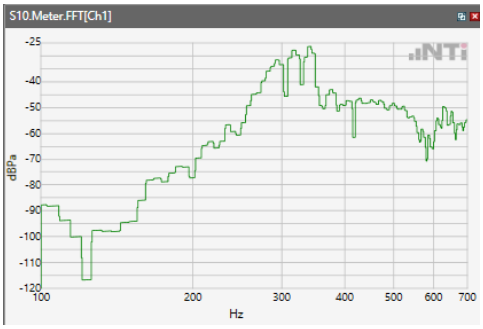


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

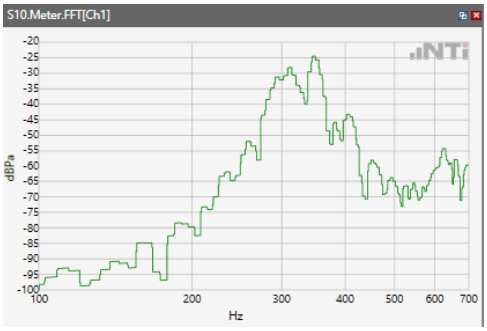


Receive path - distortion and noise 315Hz WB only

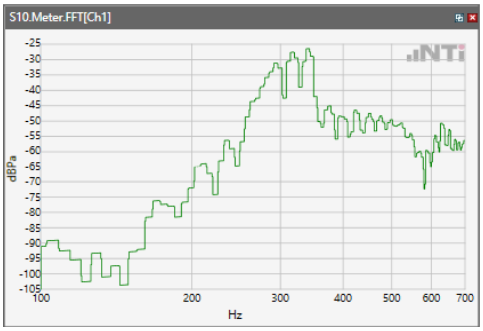
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



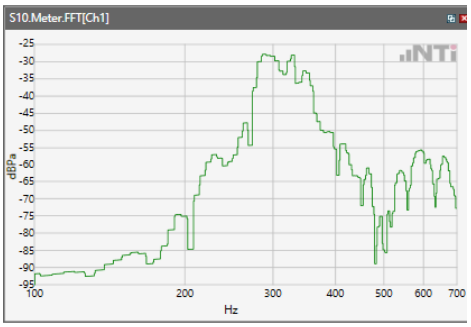
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



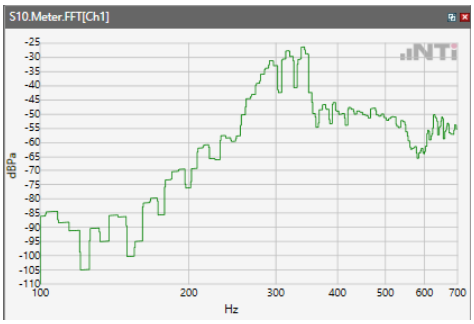
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



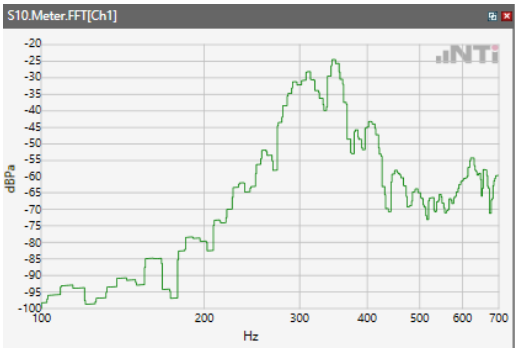
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



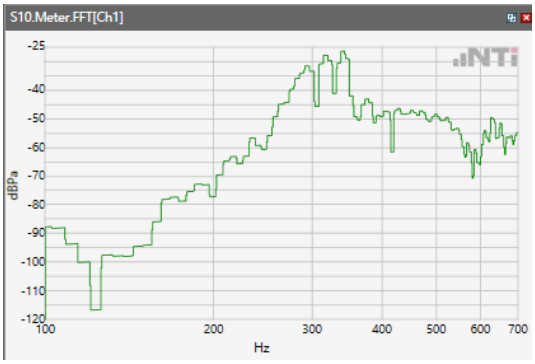
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



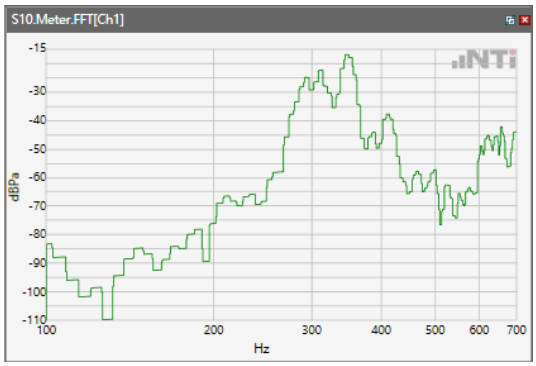
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



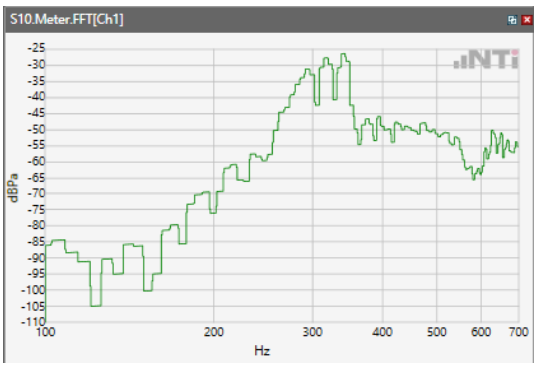
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



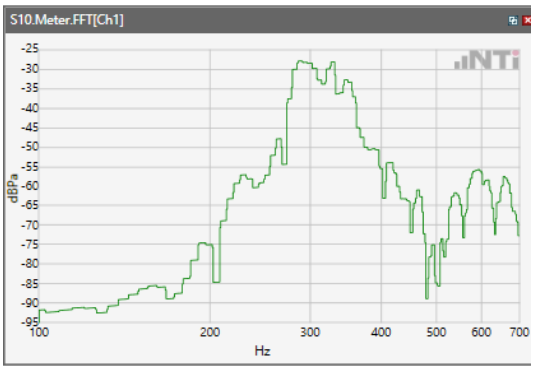
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



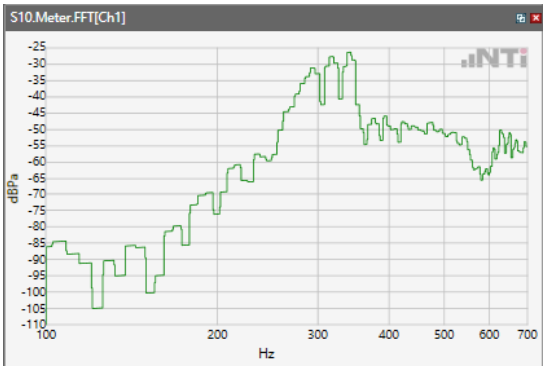
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



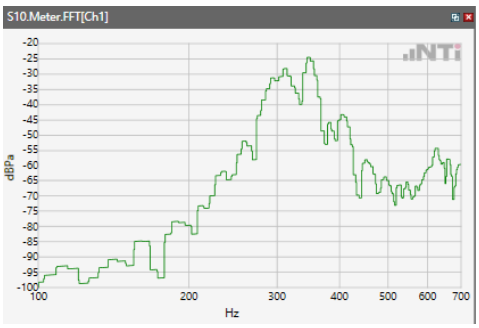
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

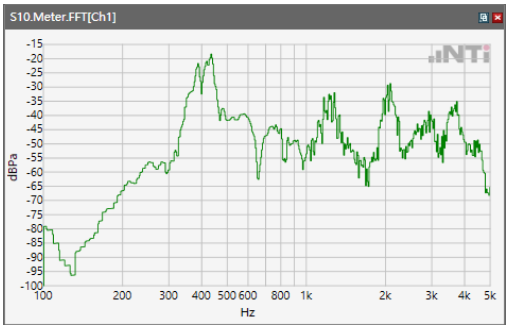


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

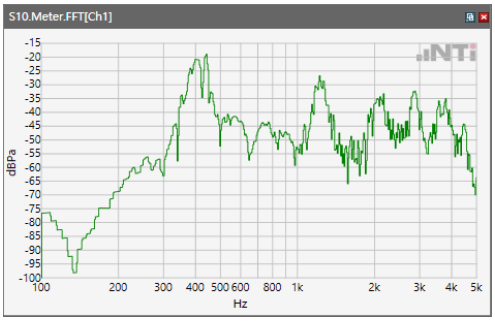


Receive path - distortion and noise 400Hz WB&NB

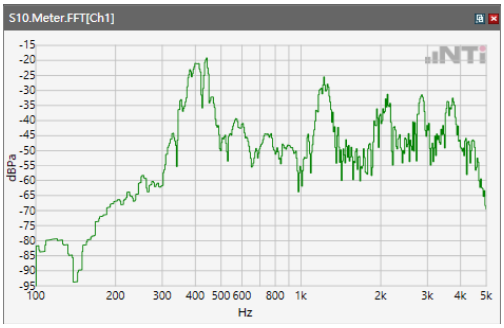
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



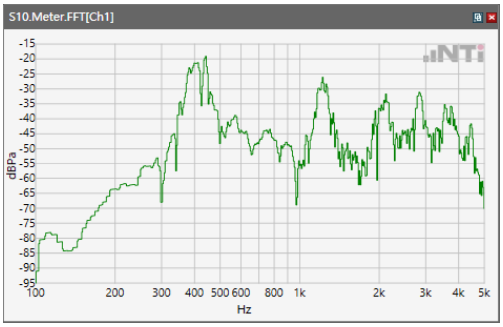
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



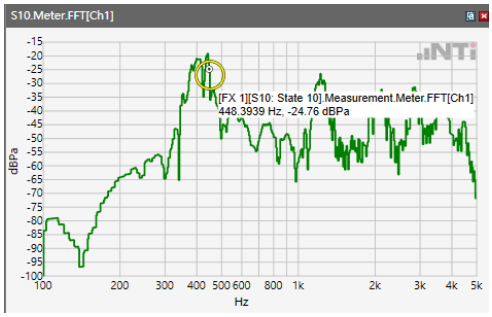
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



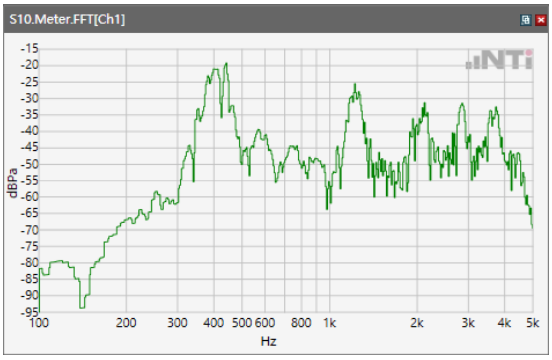
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



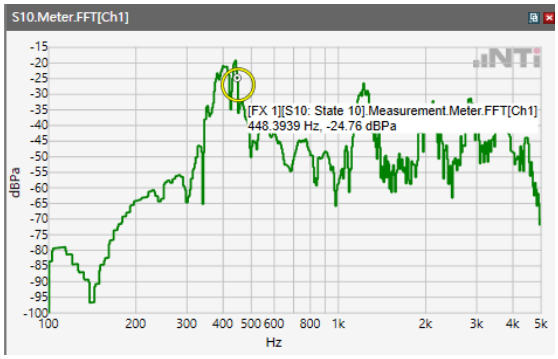
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



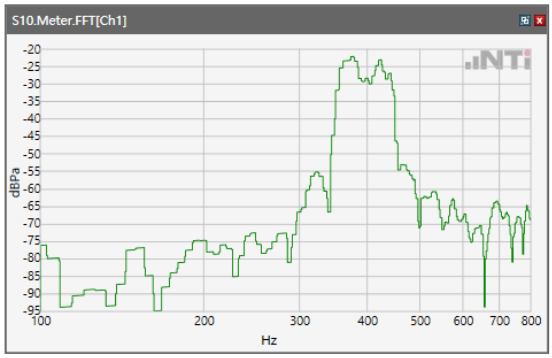
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



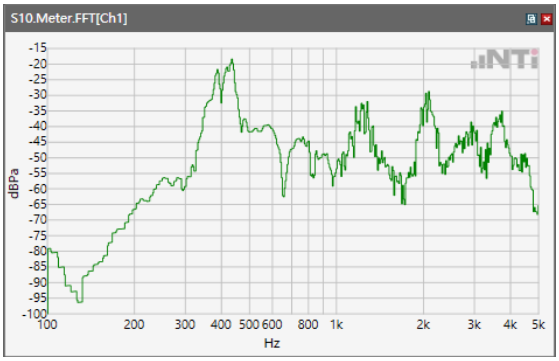
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



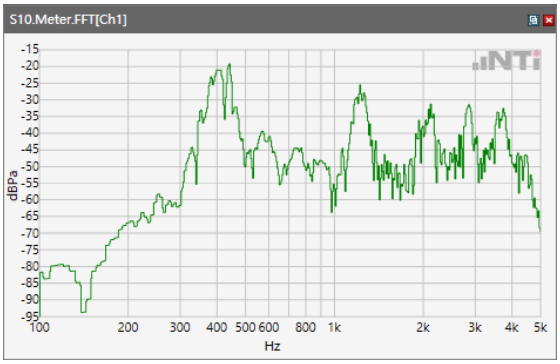
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



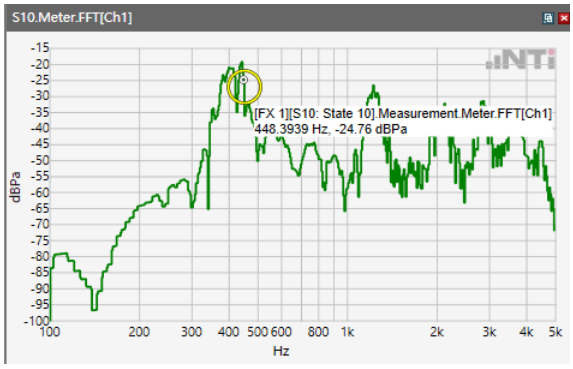
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



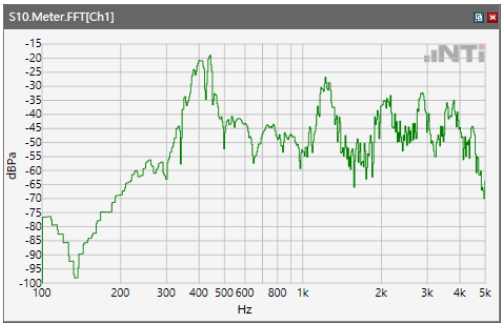
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

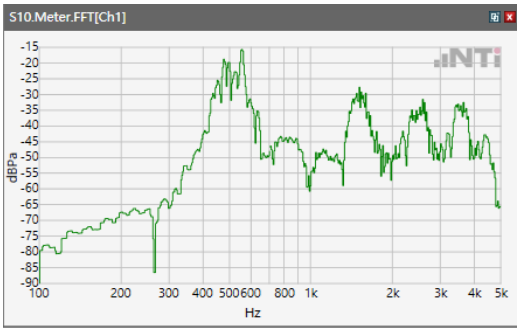


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

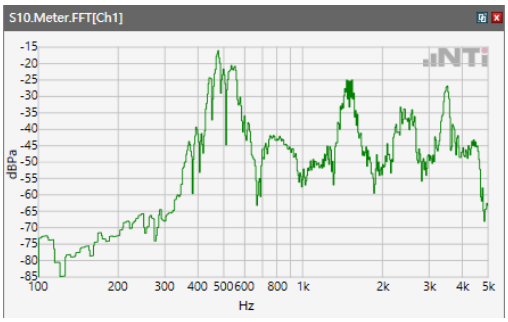


Receive path - distortion and noise 500Hz WB&NB

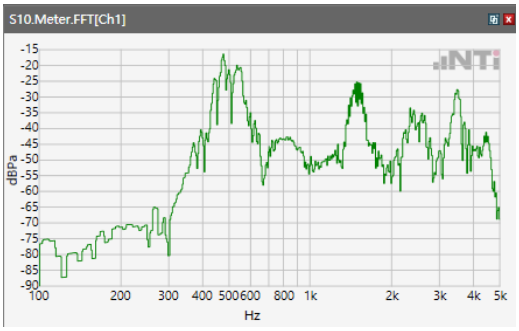
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



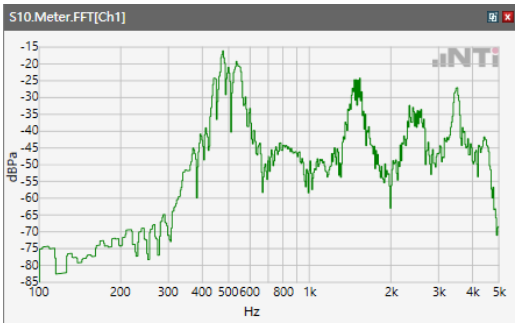
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



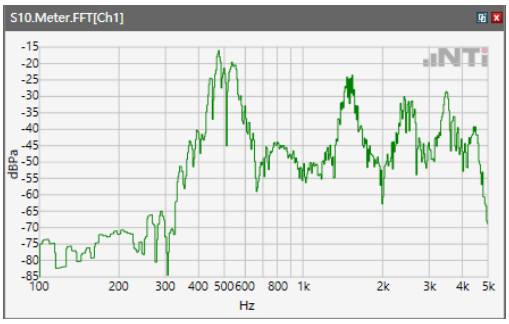
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



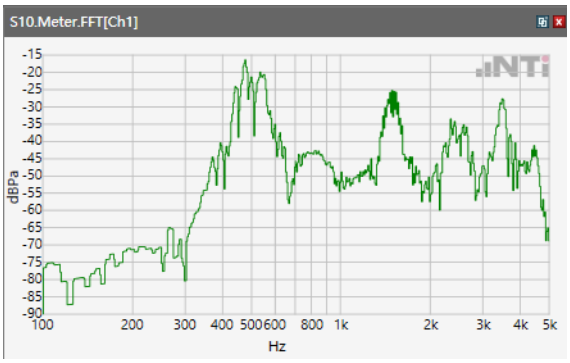
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



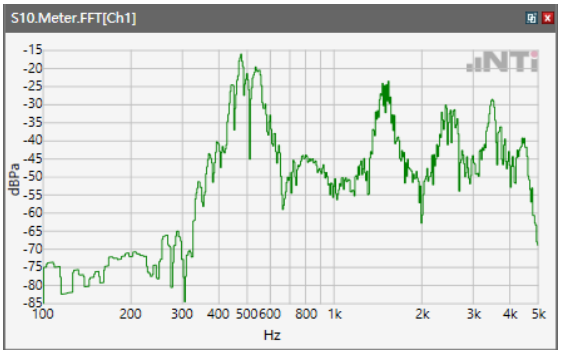
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



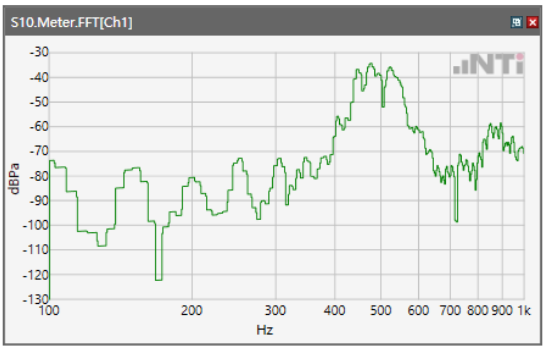
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



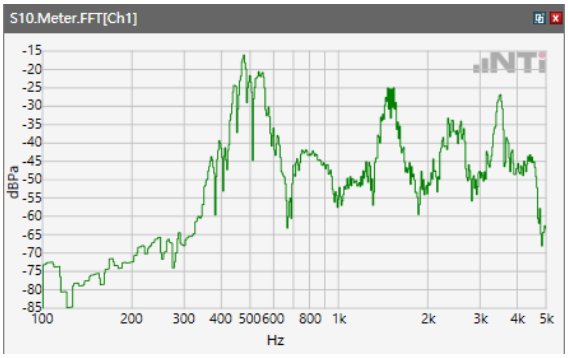
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



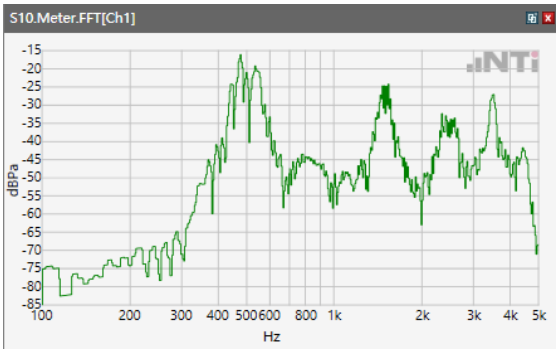
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



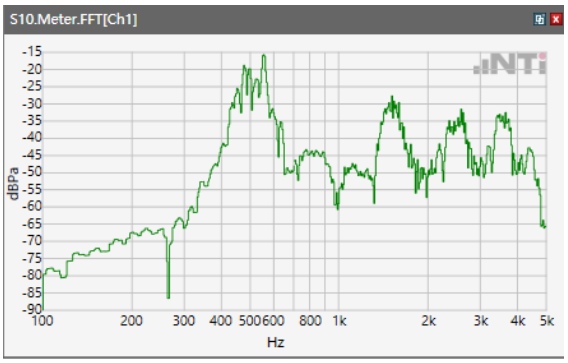
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



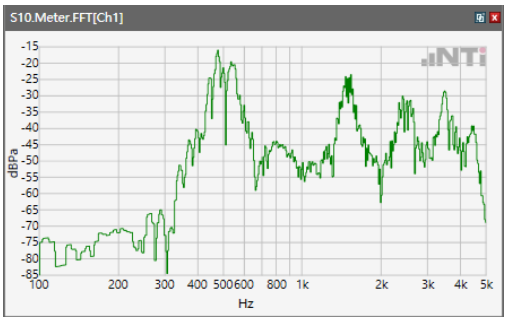
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

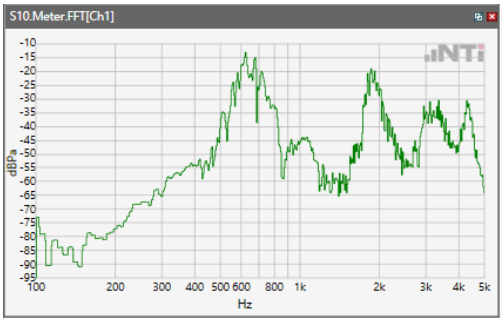


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

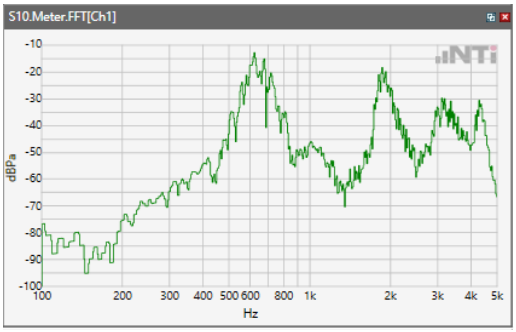


Receive path - distortion and noise 630Hz WB&NB

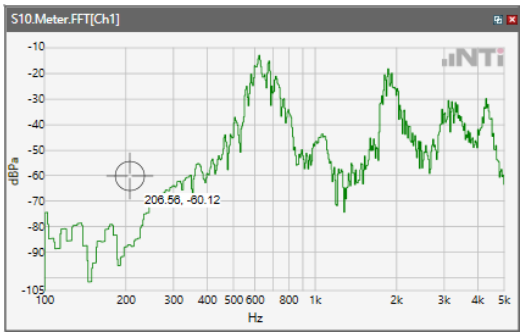
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



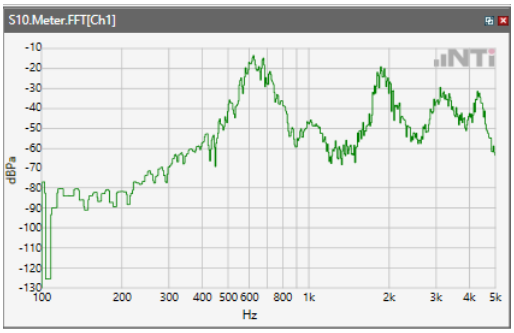
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



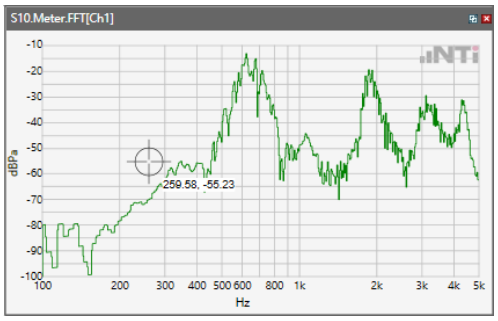
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



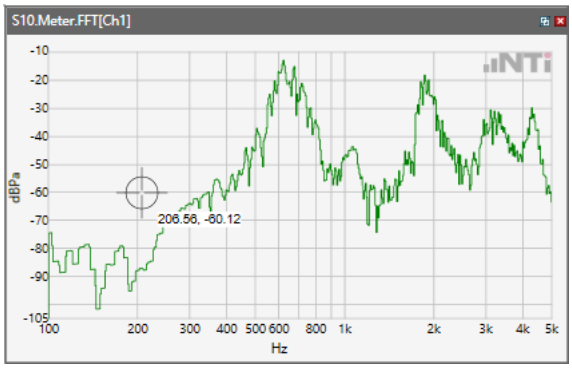
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



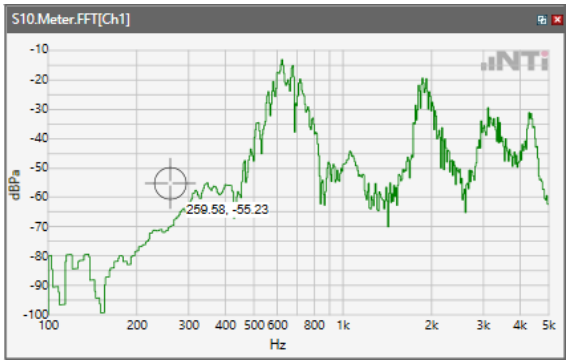
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



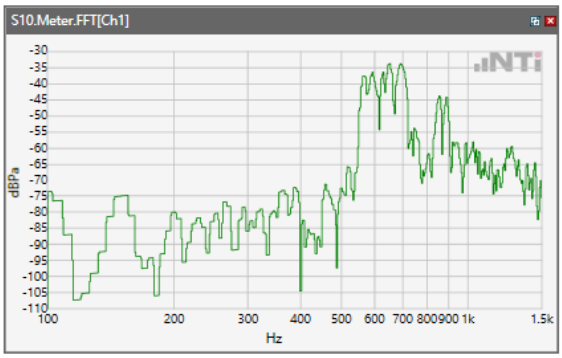
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



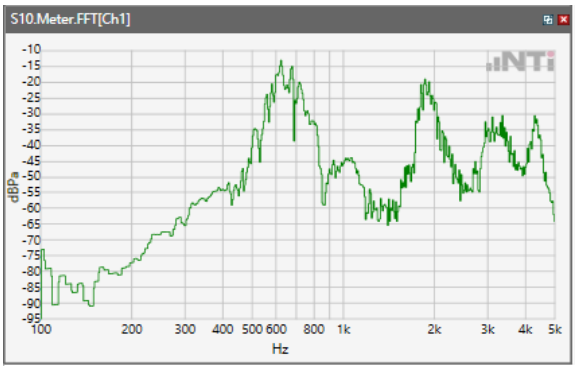
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



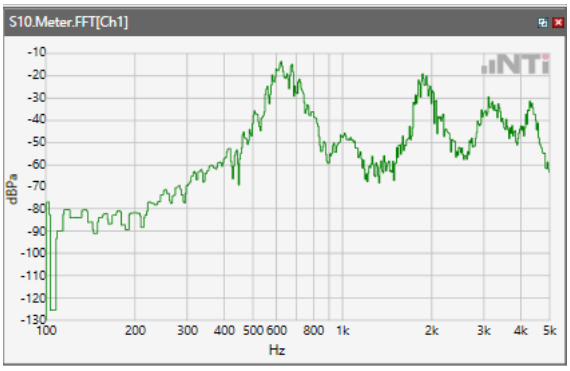
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



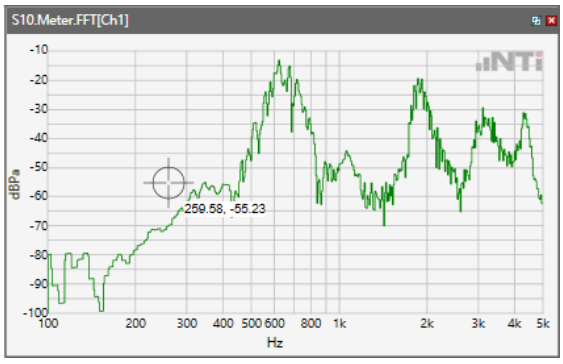
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



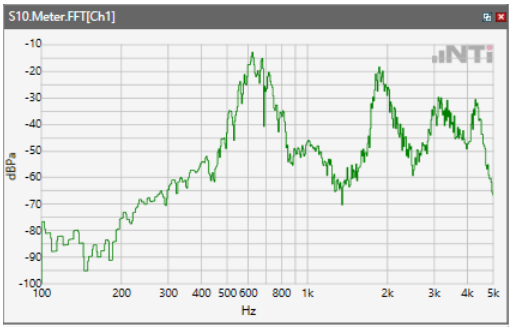
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

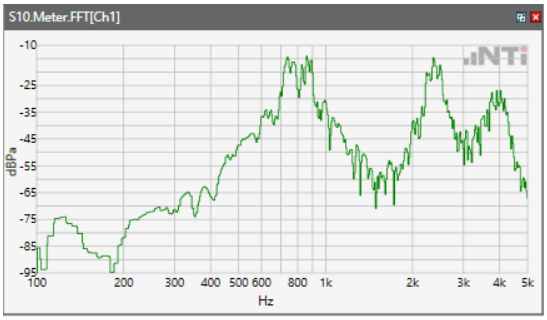


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

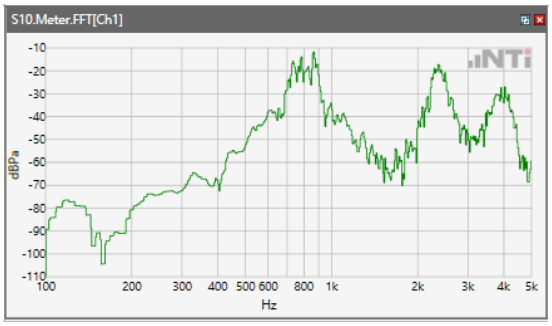


Receive path - distortion and noise 800Hz WB&NB

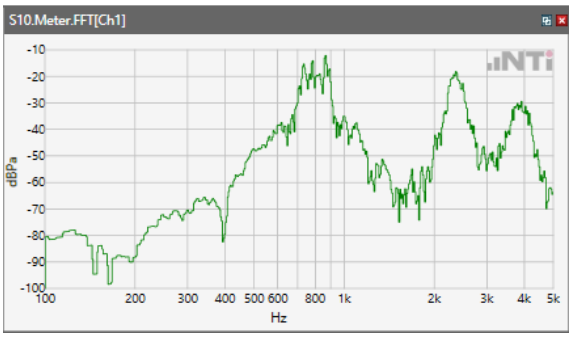
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



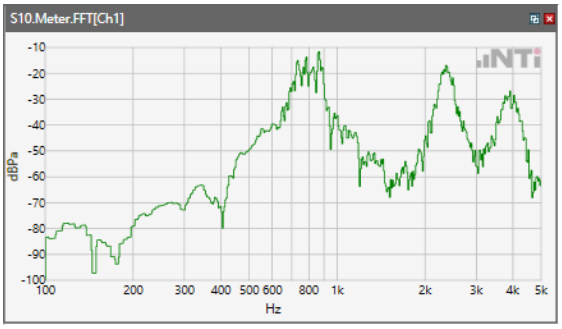
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



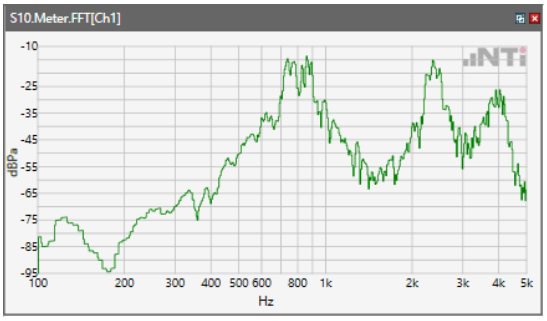
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



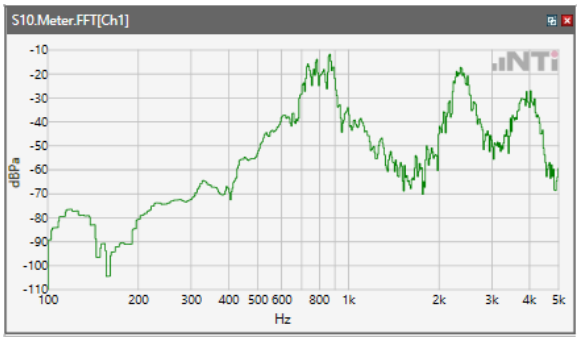
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



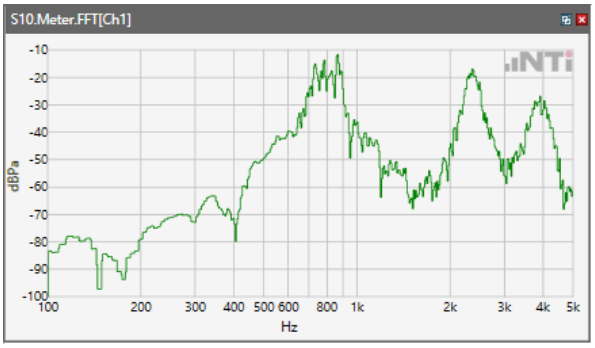
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



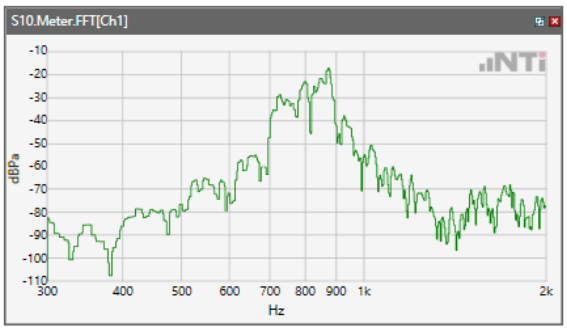
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



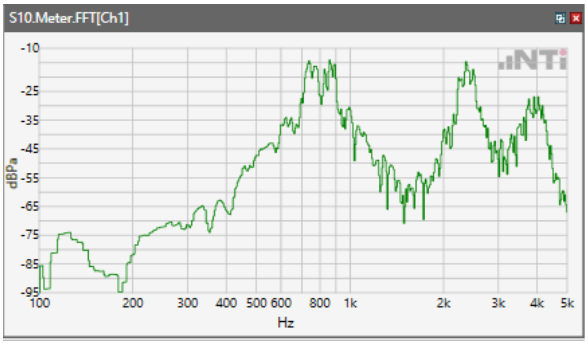
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



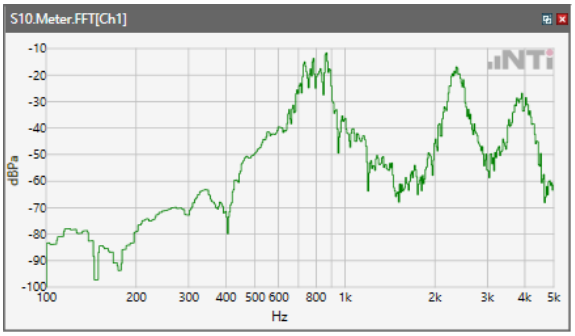
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



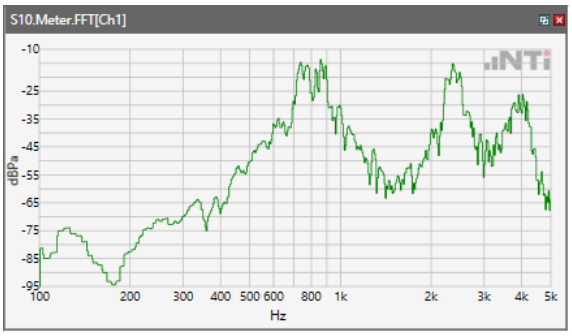
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



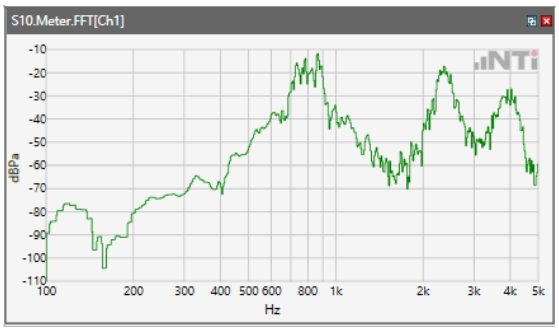
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

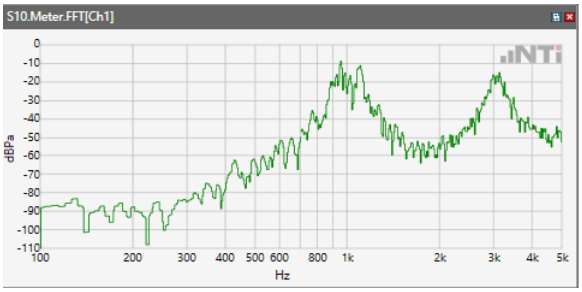


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

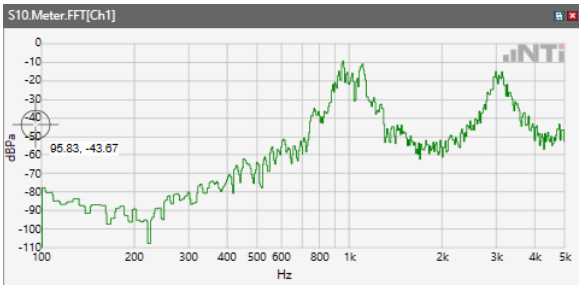


Receive path - distortion and noise 1000Hz WB&NB

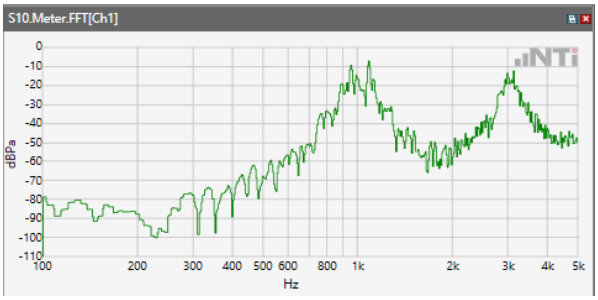
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



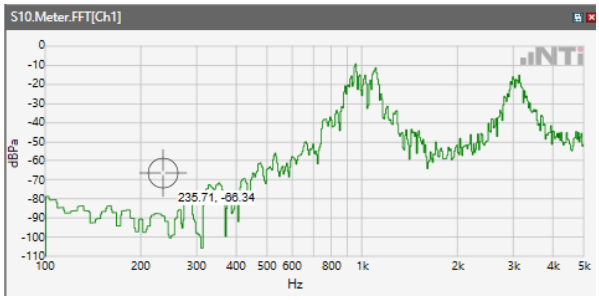
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



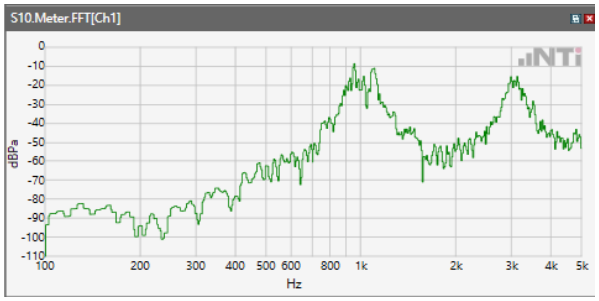
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



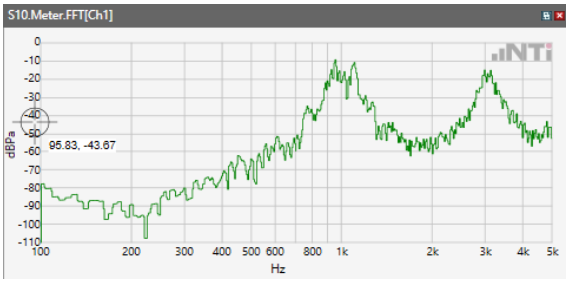
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



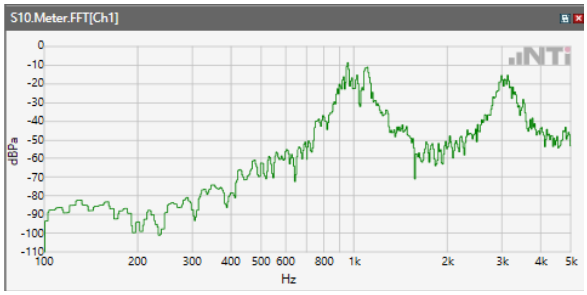
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



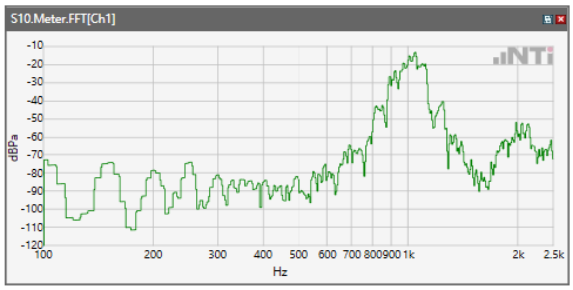
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



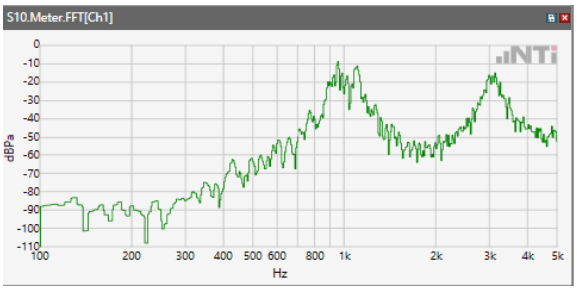
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



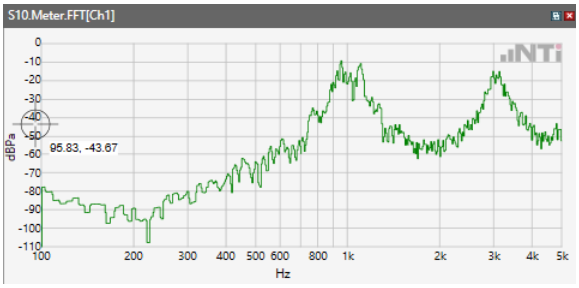
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



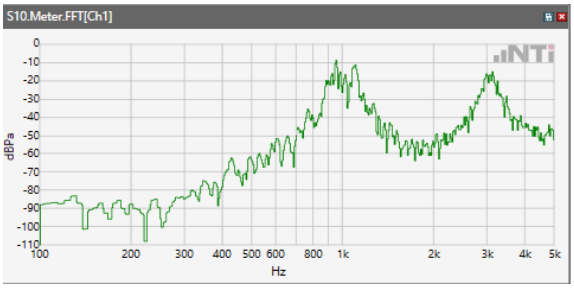
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



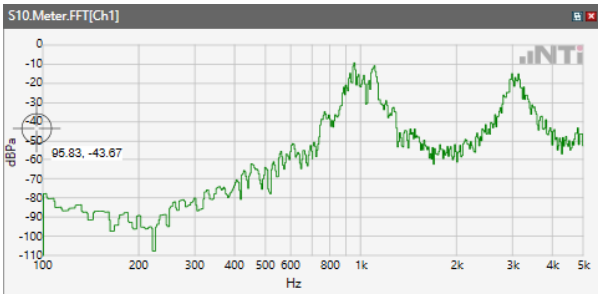
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



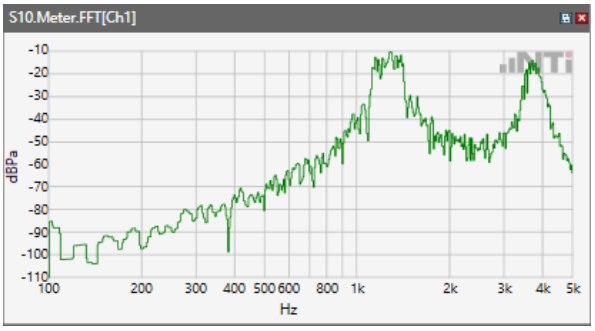
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



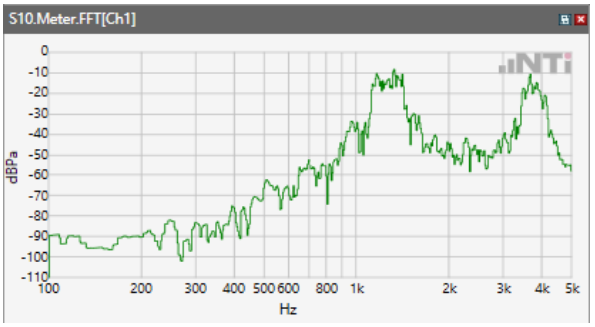
Receive path - distortion and noise 1250Hz WB&NB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850

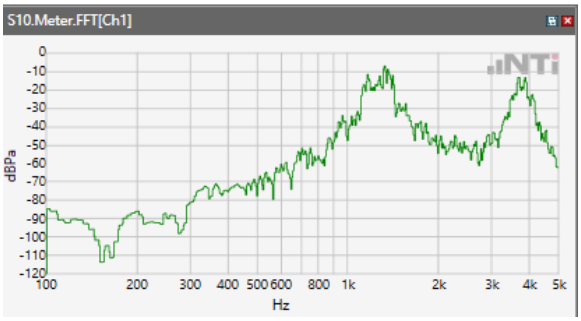
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



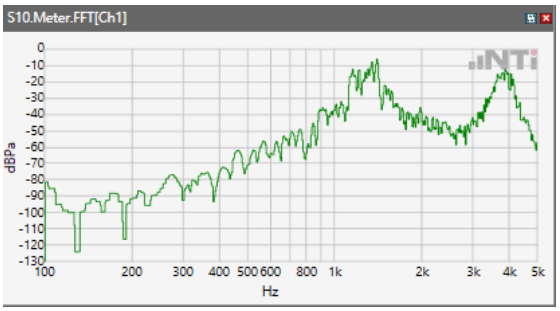
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



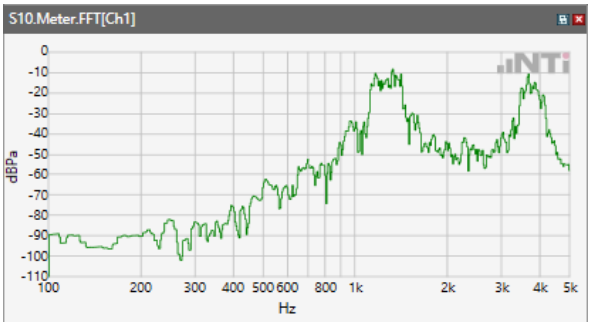
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



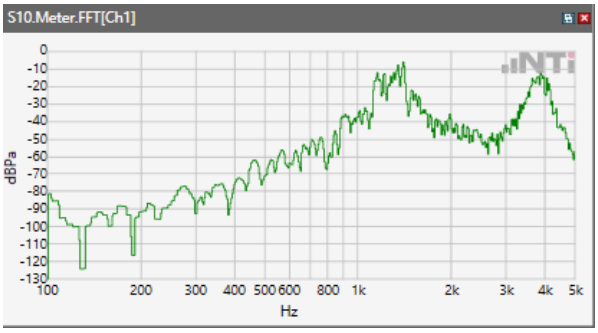
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



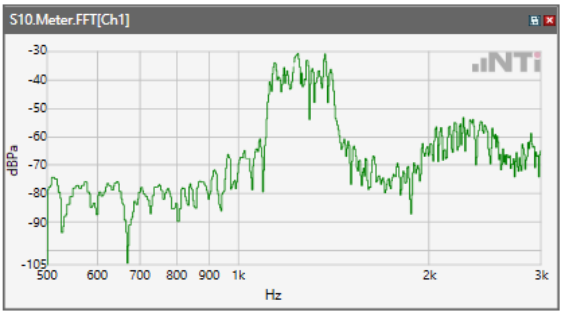
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5

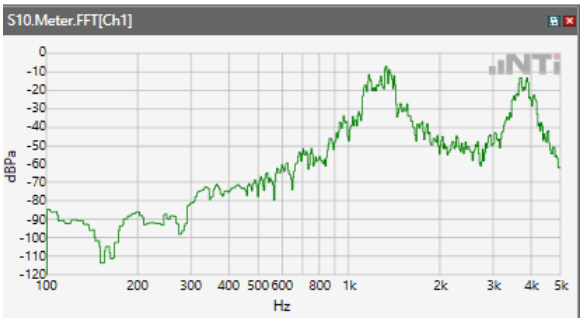


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7

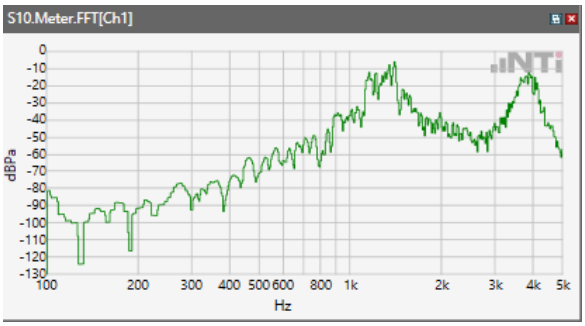


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12

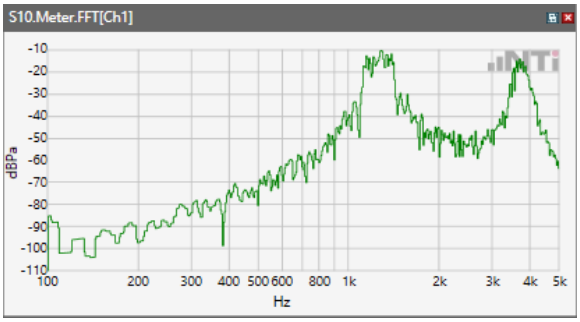
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

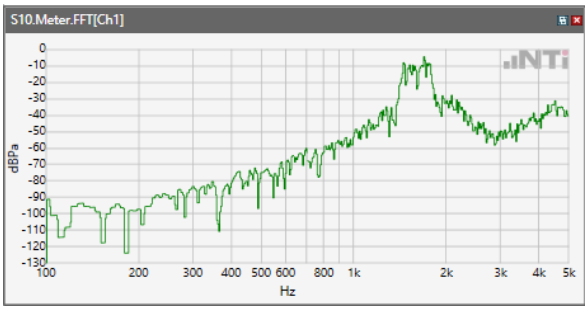


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

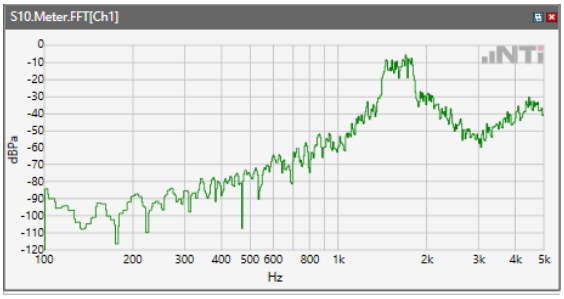


Receive path - distortion and noise 1600Hz WB&NB

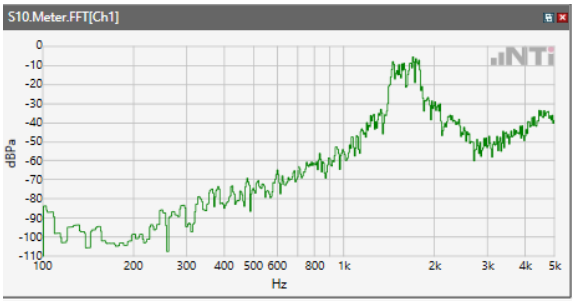
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



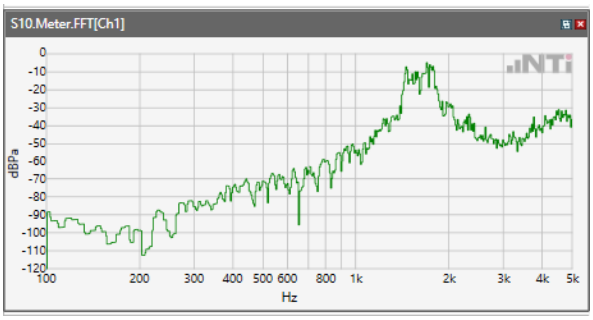
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



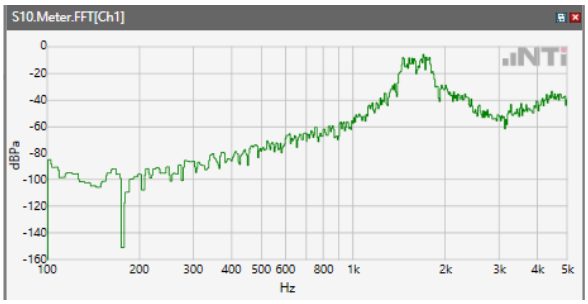
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



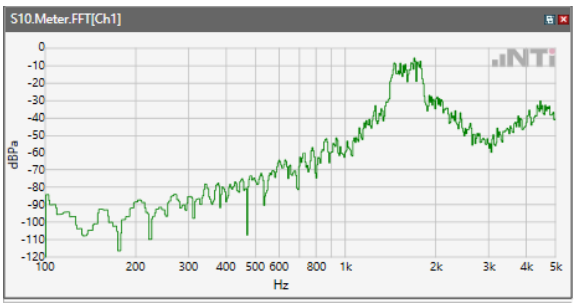
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



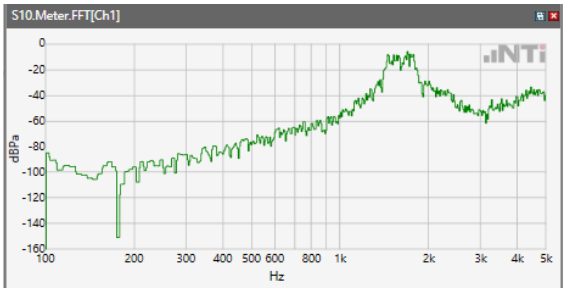
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



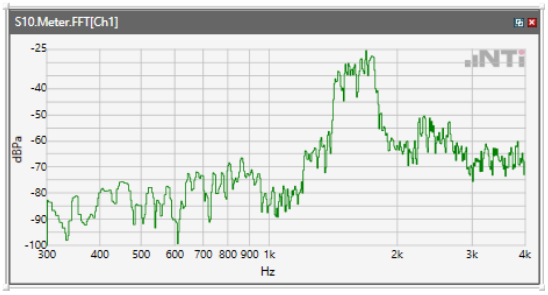
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



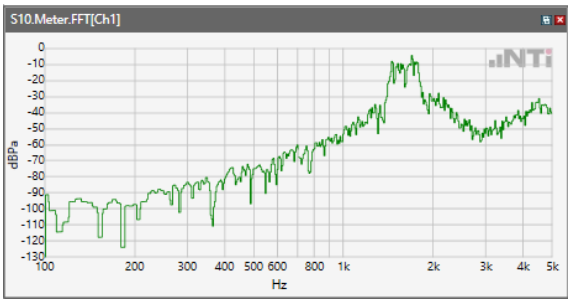
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



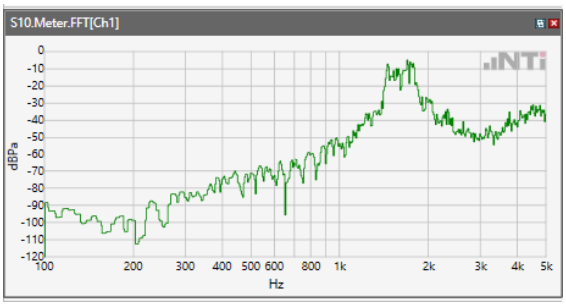
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



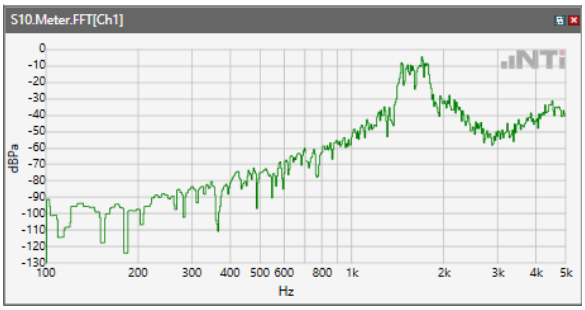
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



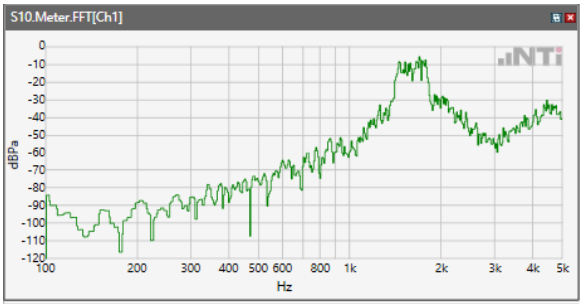
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

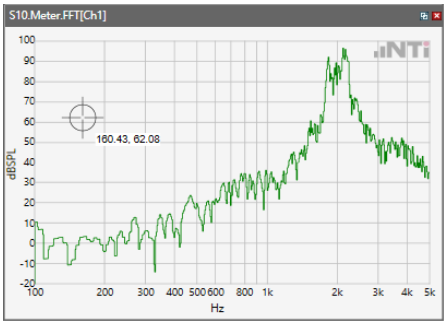


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

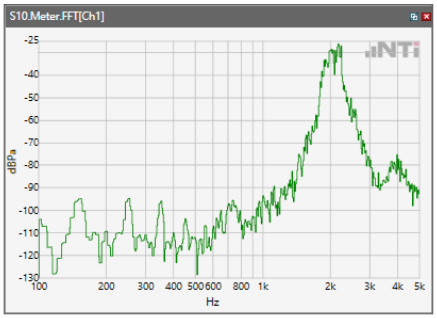


Receive path - distortion and noise 2000Hz WB&NB

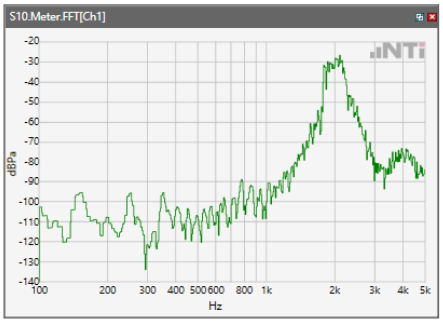
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



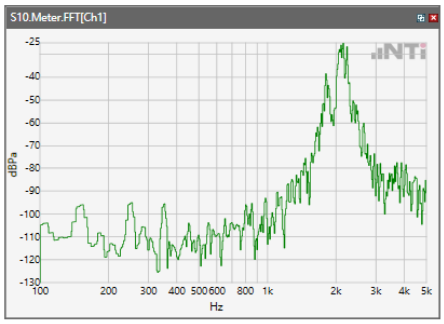
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



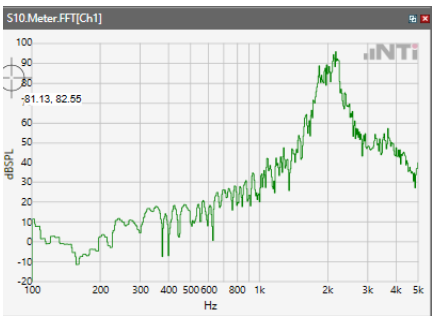
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



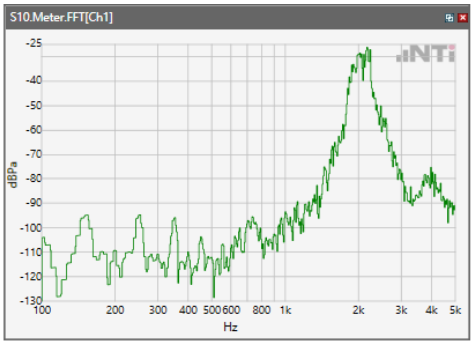
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



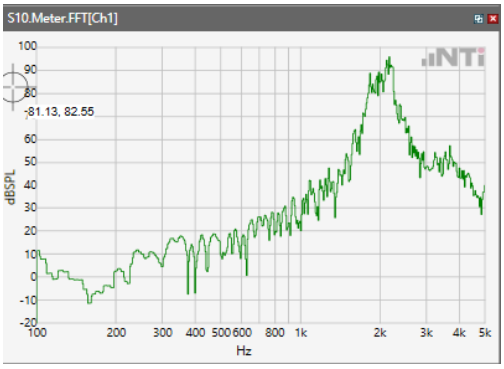
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



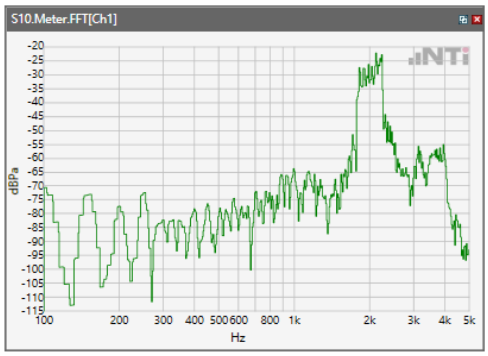
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



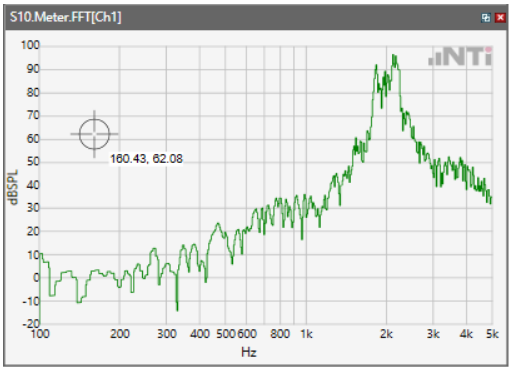
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



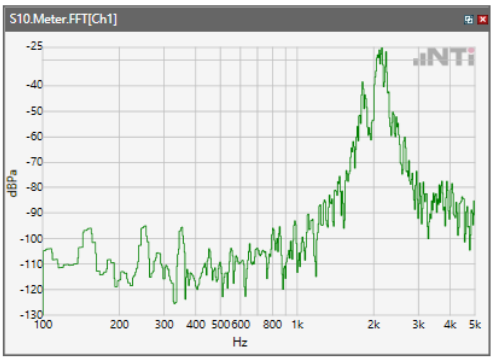
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



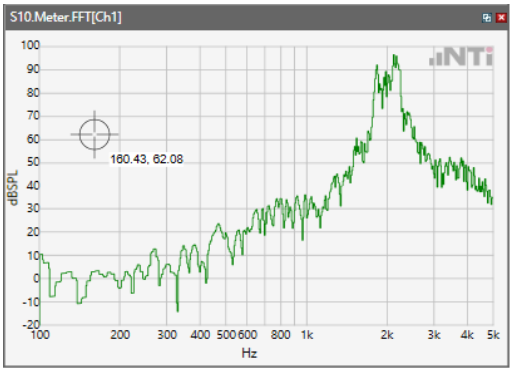
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



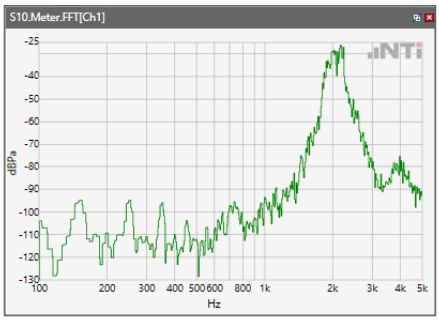
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

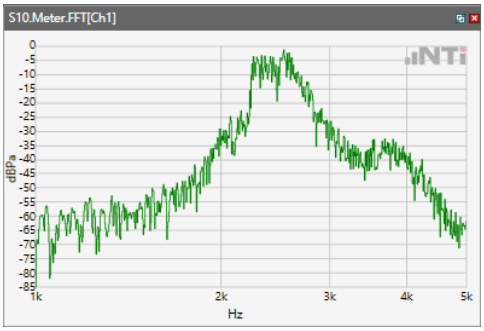


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

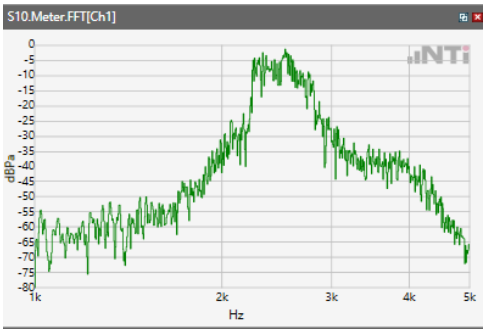


Receive path - distortion and noise 2500Hz WB&NB

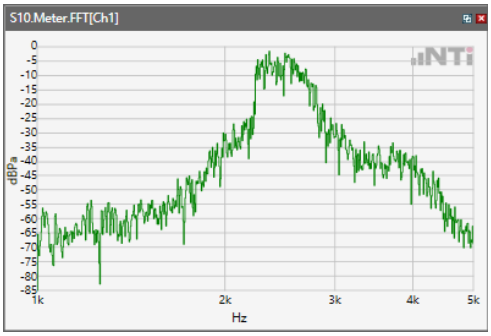
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



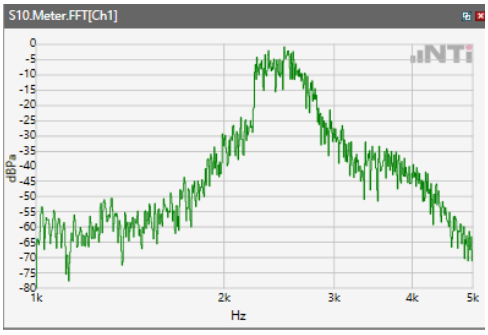
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



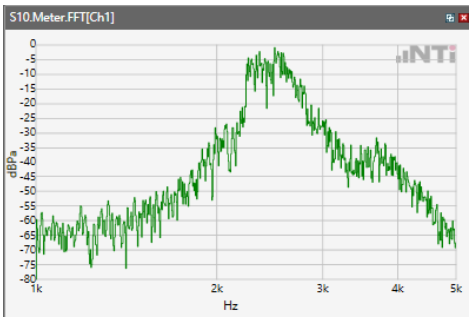
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



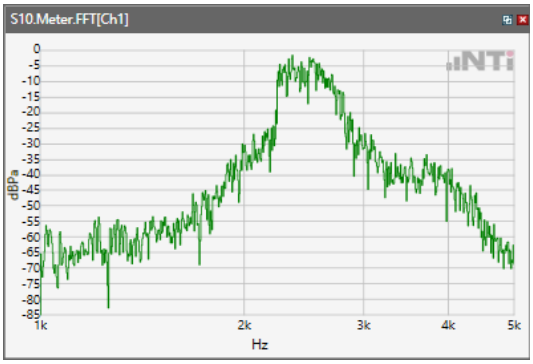
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



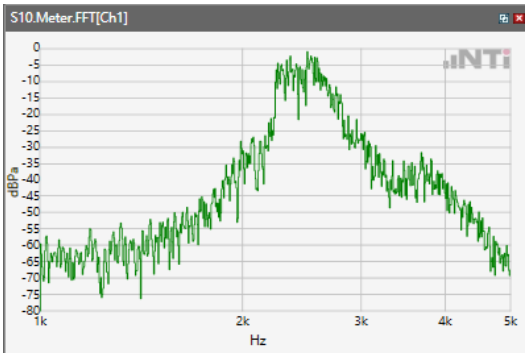
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



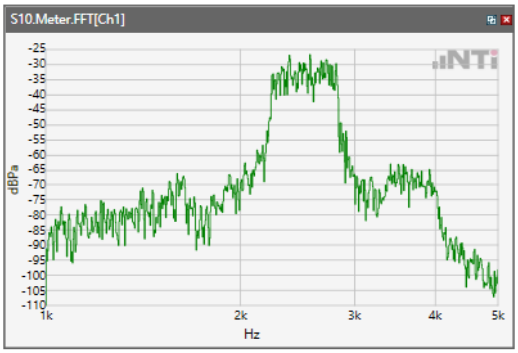
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



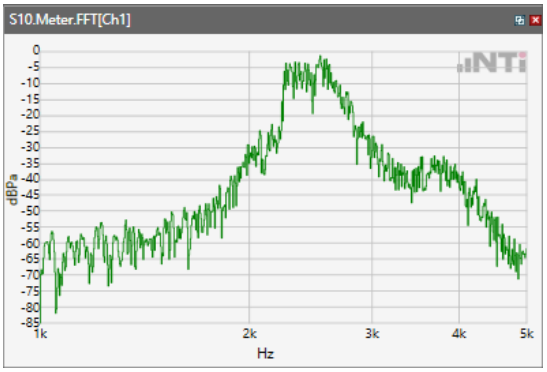
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



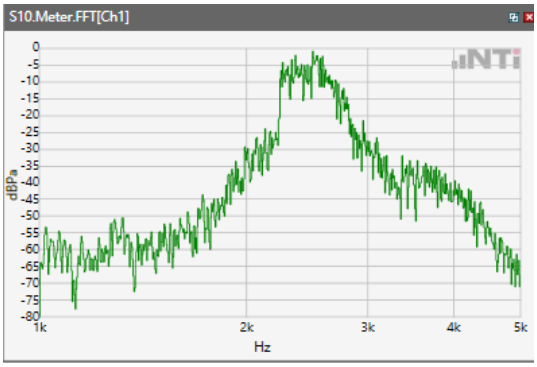
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



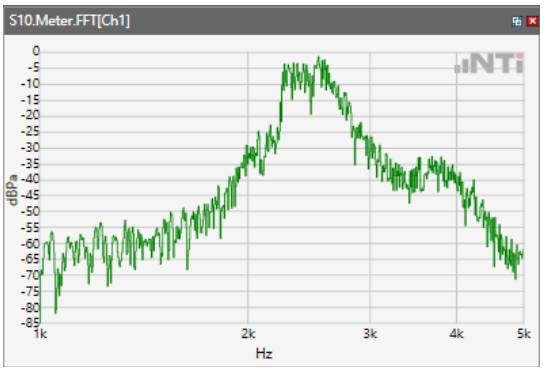
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



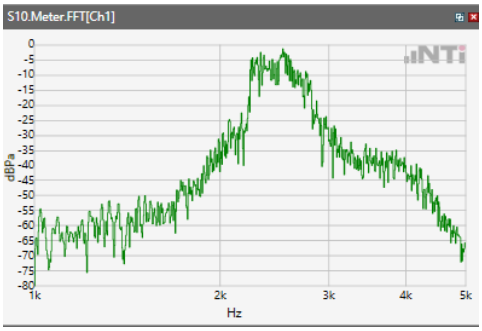
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

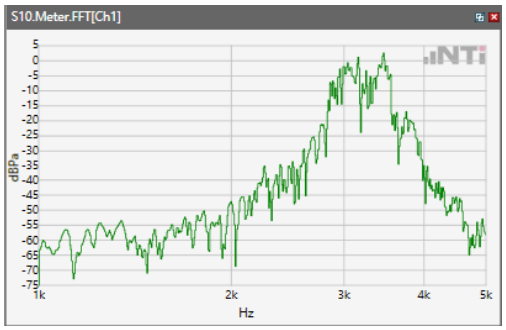


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

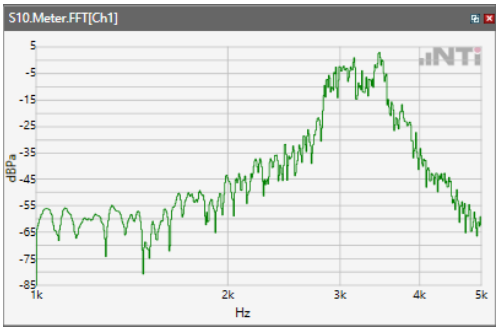


Receive path - distortion and noise 3150Hz WB&NB

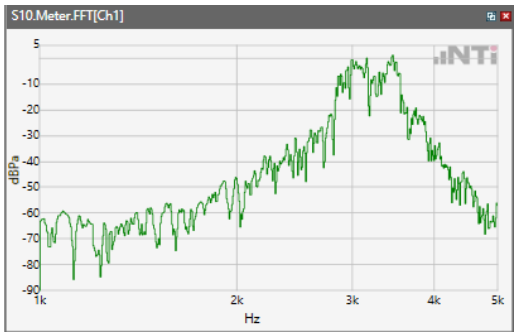
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



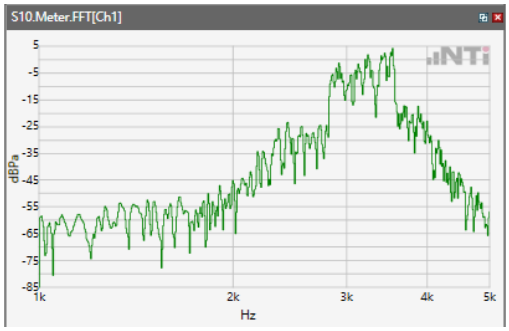
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



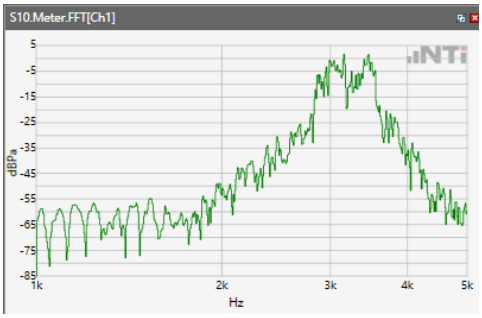
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



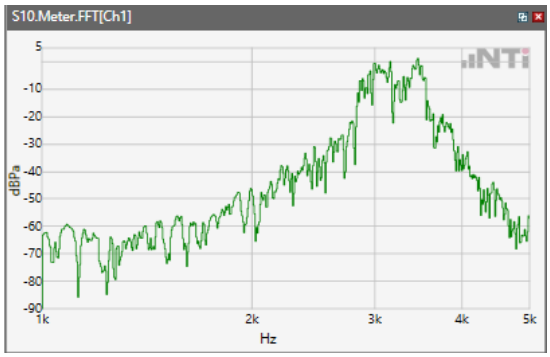
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



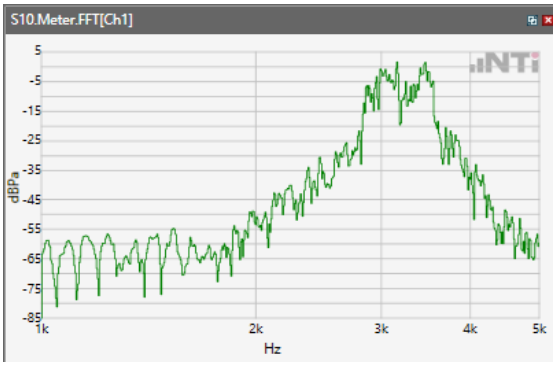
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



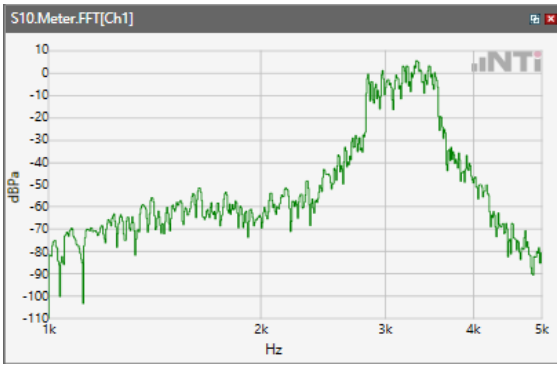
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



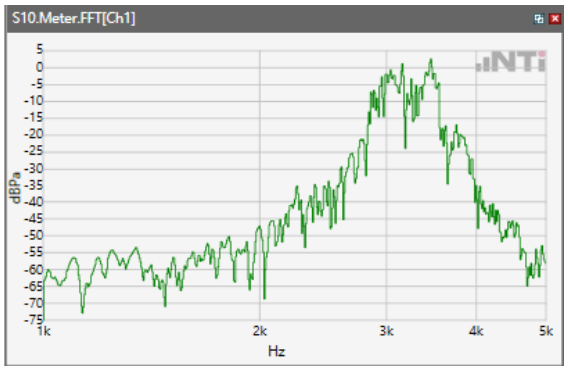
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



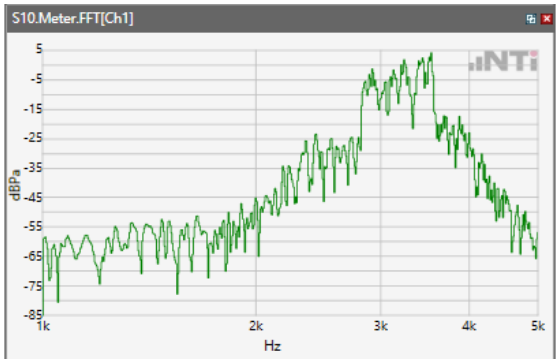
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



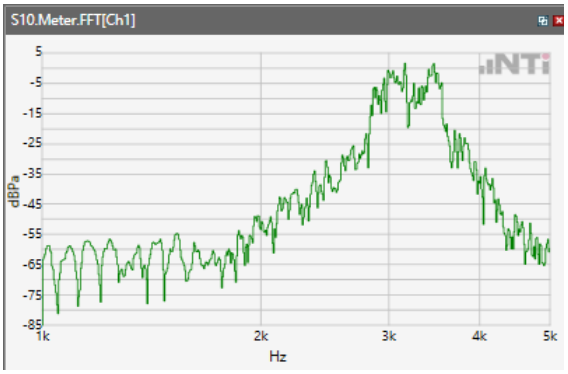
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



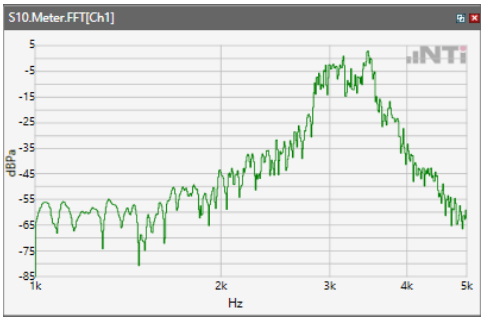
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

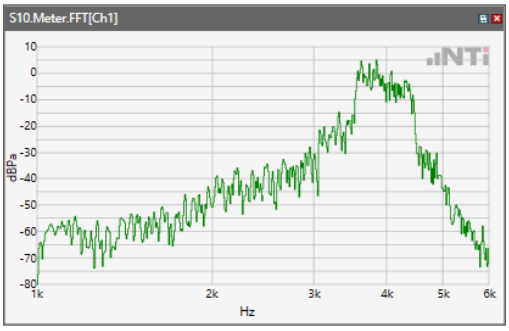


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

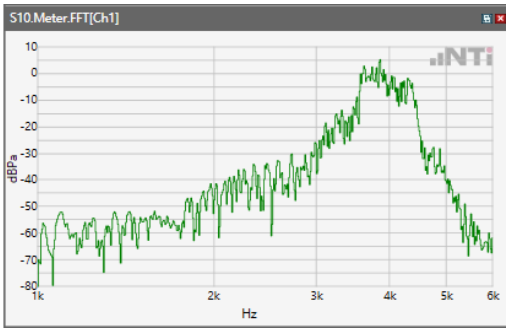


Receive path - distortion and noise 4000Hz WB only

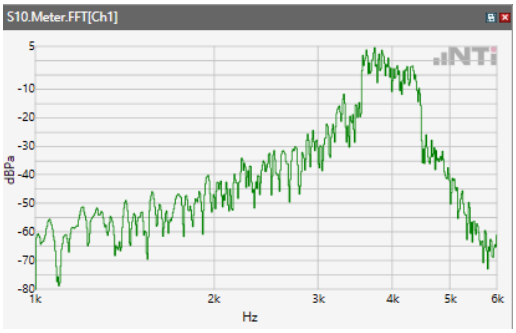
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



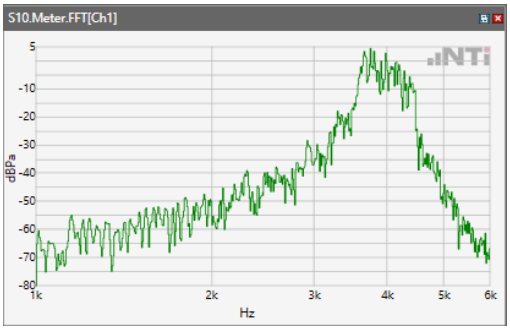
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



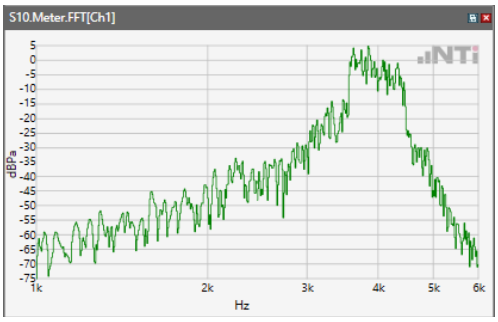
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



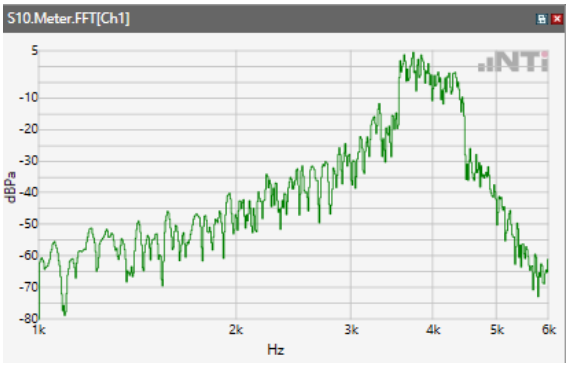
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



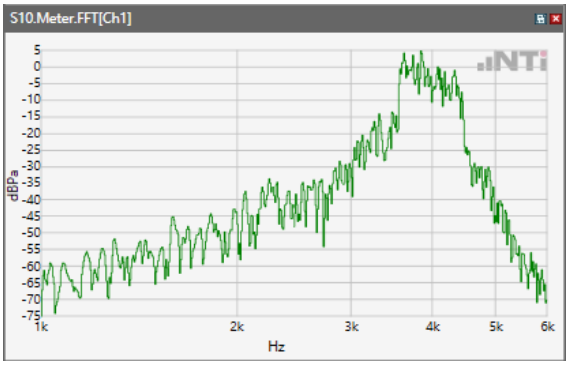
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



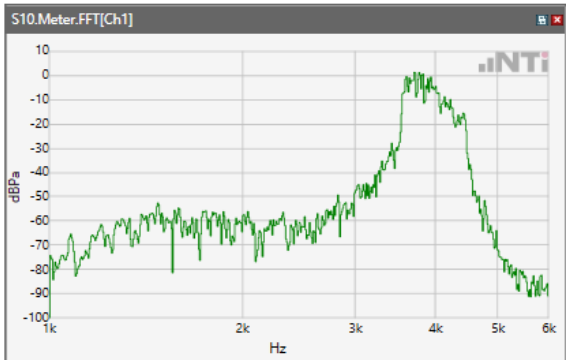
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



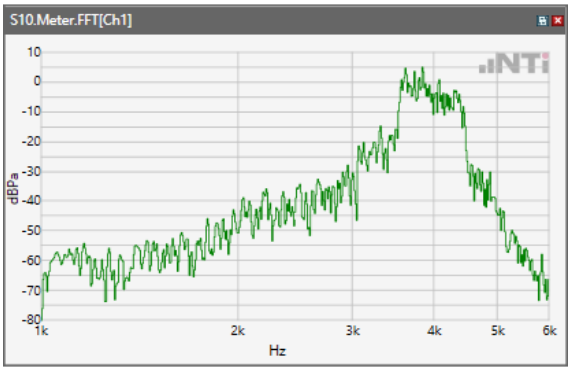
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



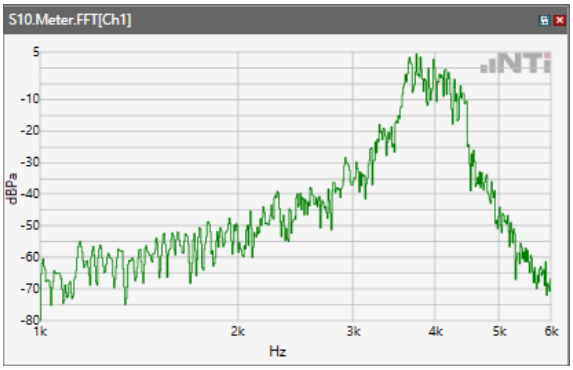
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



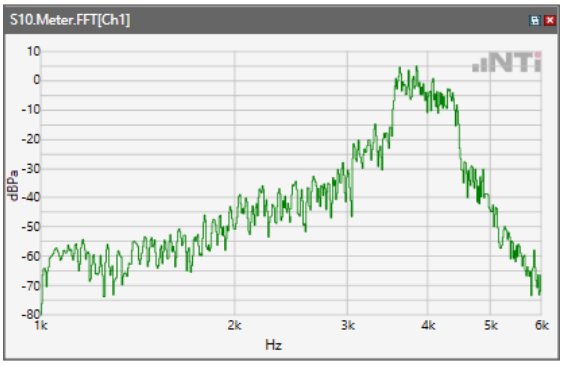
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



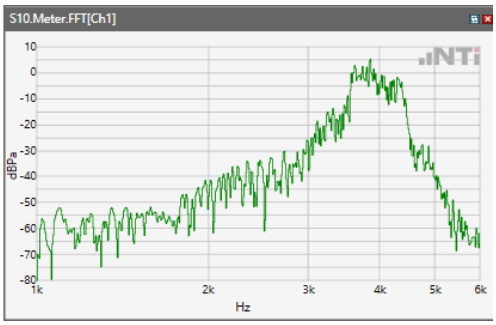
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

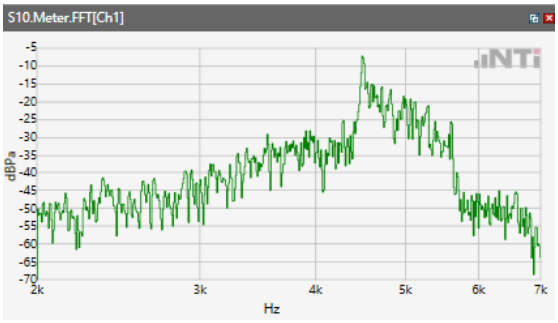


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

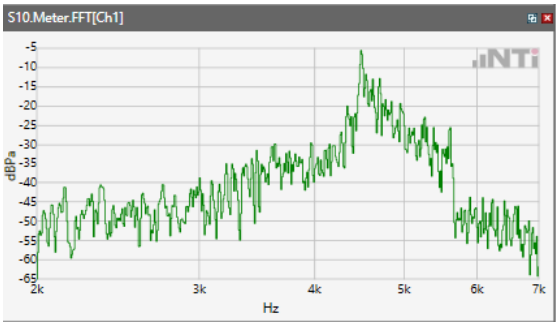


Receive path - distortion and noise 5000Hz WB only

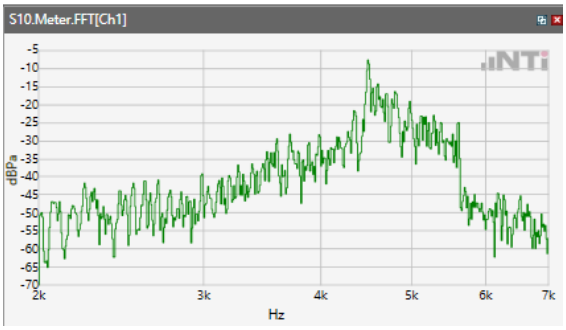
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 850



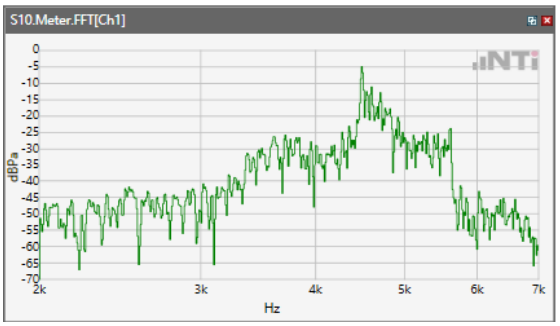
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



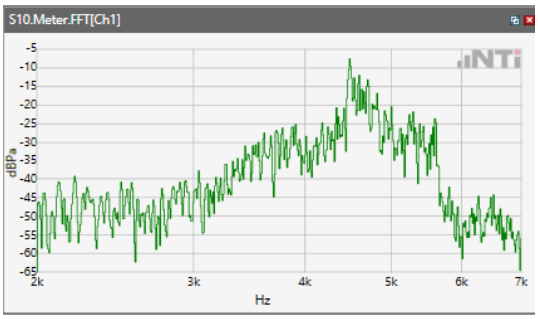
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



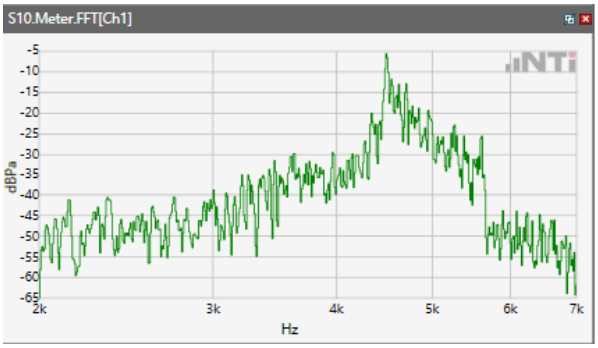
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



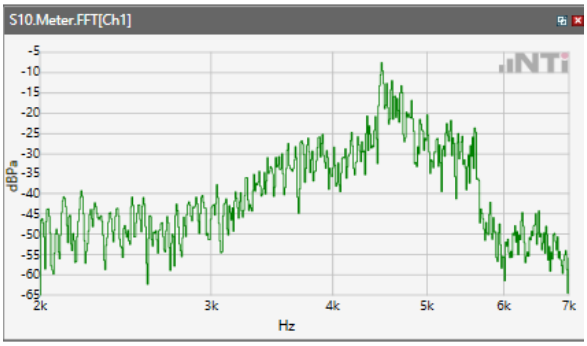
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



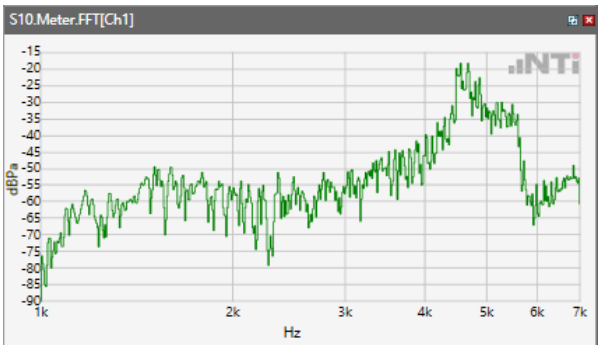
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



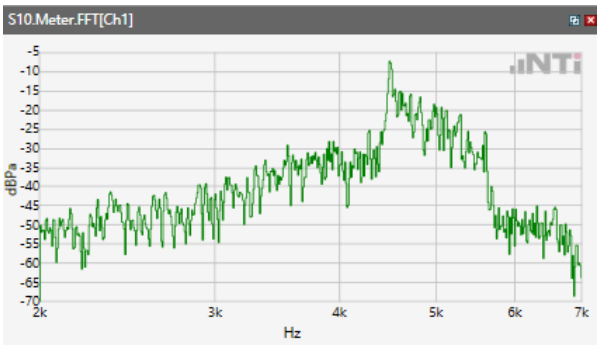
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



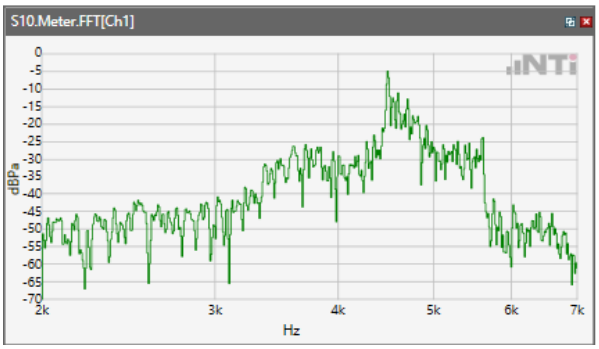
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



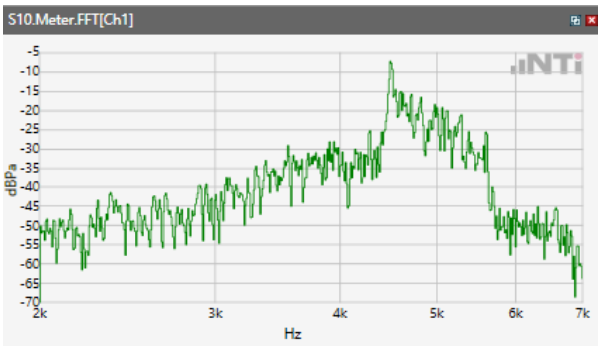
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



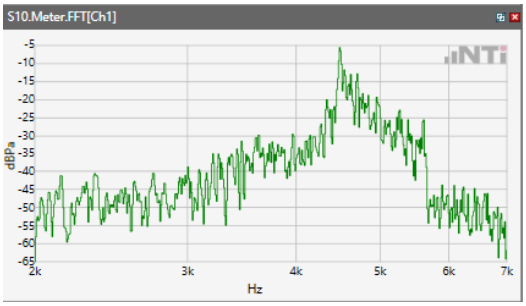
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

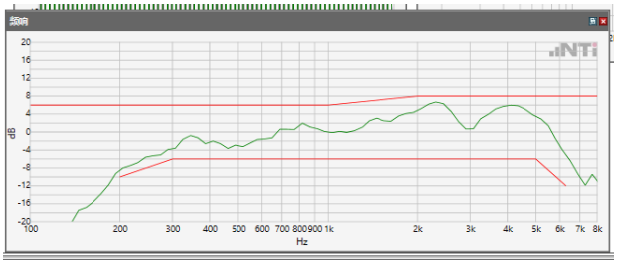


5.2 Receive path – distortion and noise

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

5.3 Receive Acoustic Frequency response Performance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \GSM 850



Absolute minimal distance

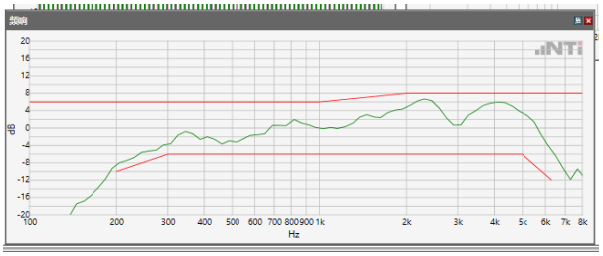
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \GSM 1900



Absolute minimal distance

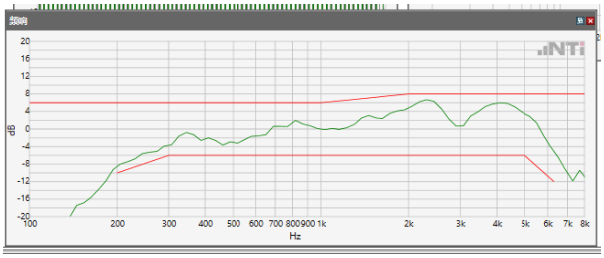
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WCDMA Band II



Absolute minimal distance

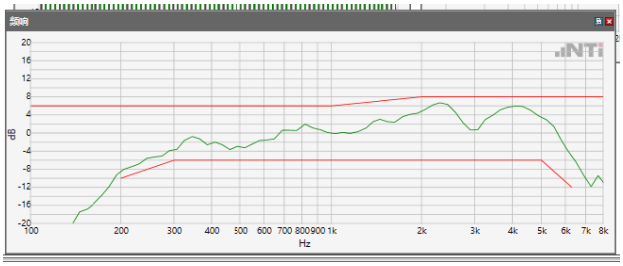
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ WCDMA Band IV



Absolute minimal distance

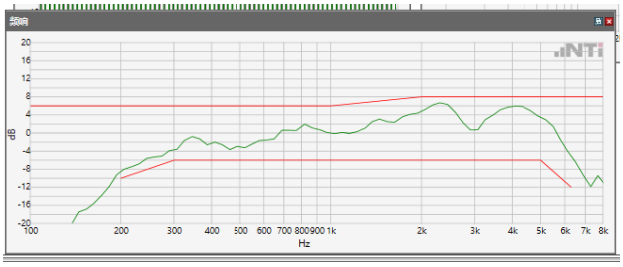
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ WCDMA Band V



Absolute minimal distance

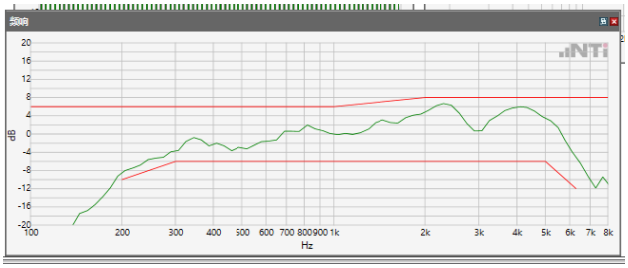
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 2



Absolute minimal distance

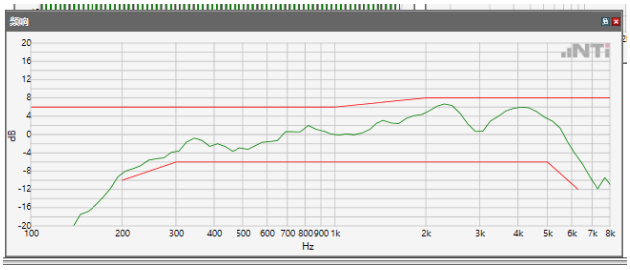
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 5



Absolute minimal distance

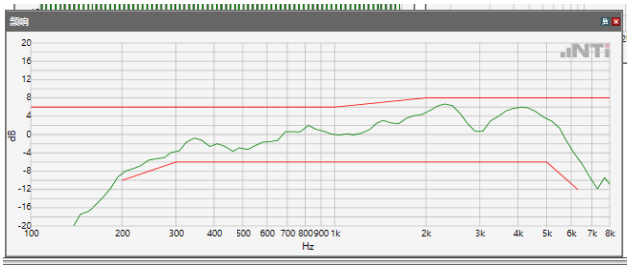
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 7



Absolute minimal distance

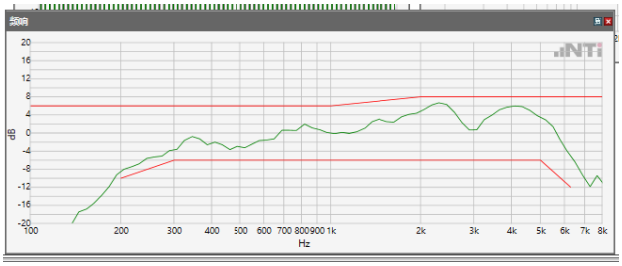
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 12



Absolute minimal distance

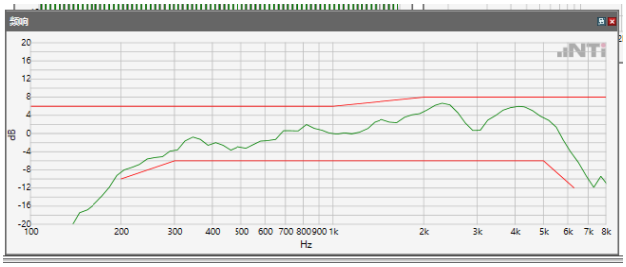
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \LTE Band 66



Absolute minimal distance

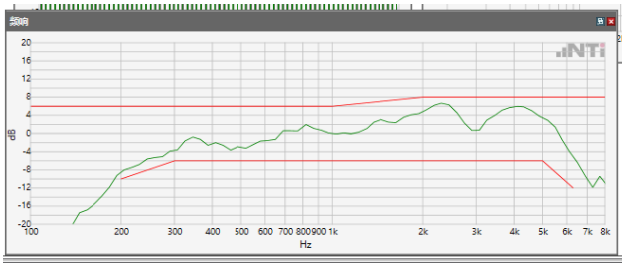
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \ LTE Band 71



Absolute minimal distance

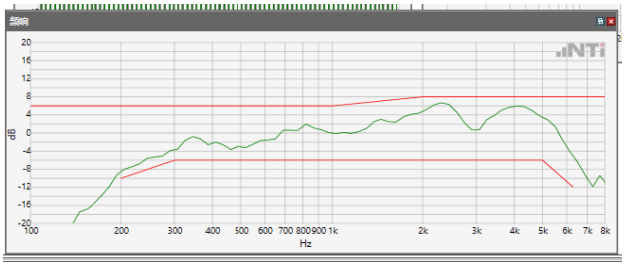
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 23.85 kbps \WLAN 2.4GHz



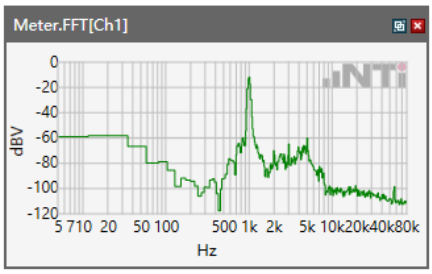
Absolute minimal distance

OK

OK

5.1 Receive Volume Control Performance 8N---EVS NB

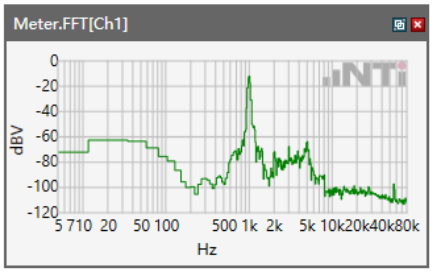
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \LTE Band 2



Speech Level RCV: 91.66 dB[SPL]

Calculated Value: 21.66 dB Ok

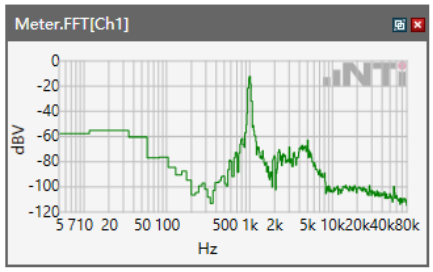
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \LTE Band 5



Speech Level RCV: 92.06 dB[SPL]

Calculated Value: 22.06 dB Ok

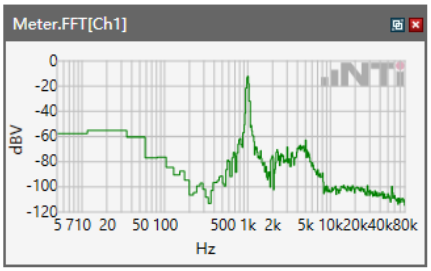
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \ LTE Band 7



Speech Level RCV: 90.47 dB[SPL]

Calculated Value: 20.47 dB Ok

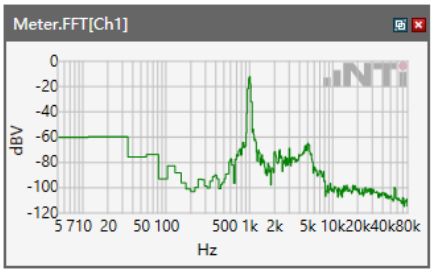
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \ LTE Band 12



Speech Level RCV: 90.42 dB[SPL]

Calculated Value: 20.42 dB Ok

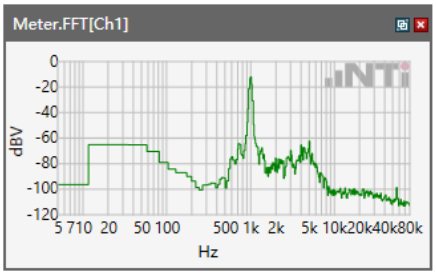
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \ LTE Band 66



Speech Level RCV: 91.18 dB[SPL]

Calculated Value: 21.18 dB Ok

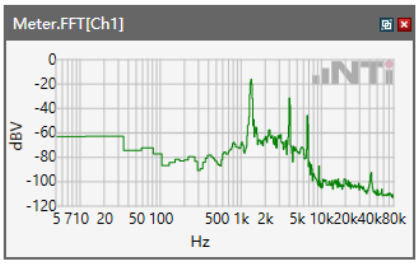
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \ LTE Band 71



Speech Level RCV: 88.99 dB[SPL]

Calculated Value: 18.99 dB Ok

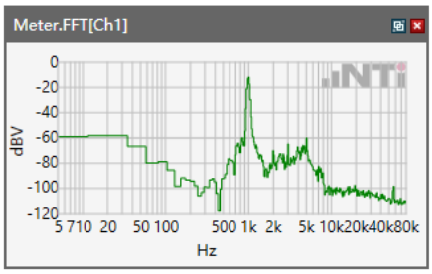
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS NB 24.4 kbps \WLAN 2.4GHz



Speech Level RCV: 95.17 dB[SPL]
Calculated Value: 25.17 dB Ok

5.1 Receive Volume Control Performance 8N---EVS WB

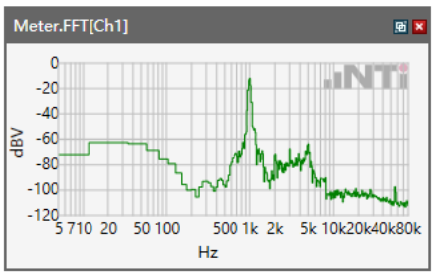
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \LTE Band 2



Speech Level RCV: 90.25 dB[SPL]

Calculated Value: 20.25 dB Ok

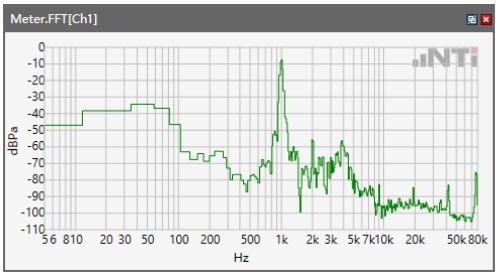
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \LTE Band 5



Speech Level RCV: 90.5 dB[SPL]

Calculated Value: 20.5 dB Ok

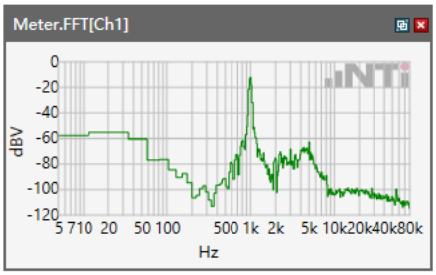
ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \ LTE Band 7



Speech Level RCV: 89.06 dB[SPL]

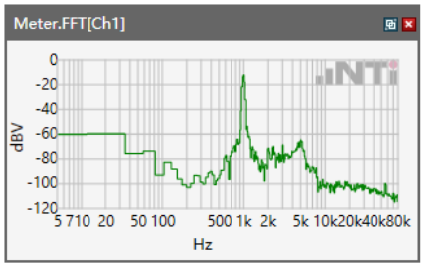
Calculated Value: 19.06 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \ LTE Band 12



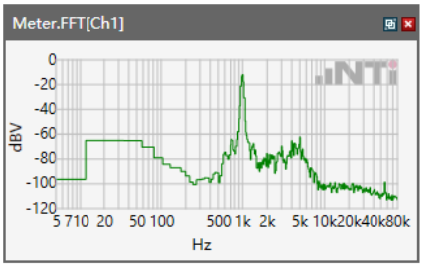
Speech Level RCV: 88.94 dB[SPL]
Calculated Value: 18.94 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \ LTE Band 66



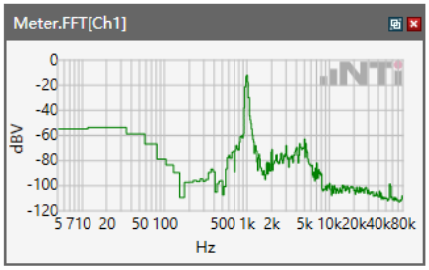
Speech Level RCV: 91.69 dB[SPL]
Calculated Value: 21.69 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \ LTE Band 71



Speech Level RCV: 89.36 dB[SPL]
Calculated Value: 19.36 dB Ok

ANSI/TIA 5050-2018 \ 8N HAC OFF \ EVS WB 24.4 kbps \WLAN 2.4GHz

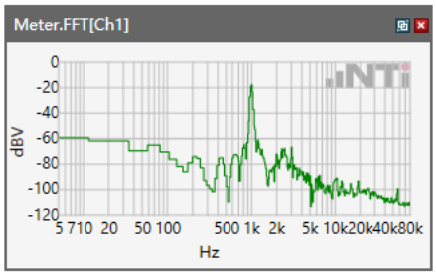


Speech Level RCV: 94.37 dB[SPL]

Calculated Value: 24.37 dB Ok

5.1 Receive Volume Control Performance 2N---NB

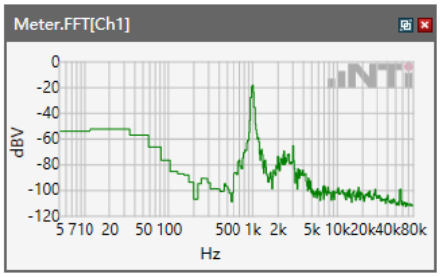
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\GSM 850



Speech Level RCV: 85.96 dB[SPL]

Calculated Value: 15.96 dB Ok

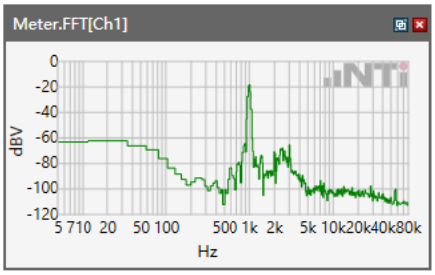
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\GSM 1900



Speech Level RCV: 86.19 dB[SPL]

Calculated Value: 16.19 dB Ok

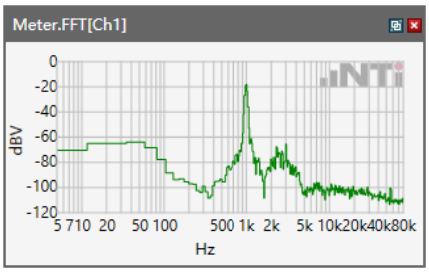
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\WCDMA Band II



Speech Level RCV: 86.19 dB[SPL]

Calculated Value: 16.19 dB Ok

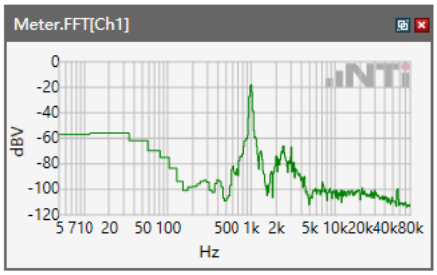
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\WCDMA Band IV



Speech Level RCV: 86.12 dB[SPL]

Calculated Value: 16.12 dB Ok

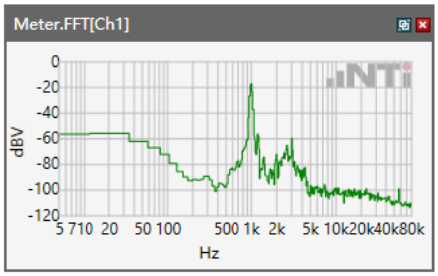
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\WCDMA Band V



Speech Level RCV: 85.96 dB[SPL]

Calculated Value: 15.96 dB Ok

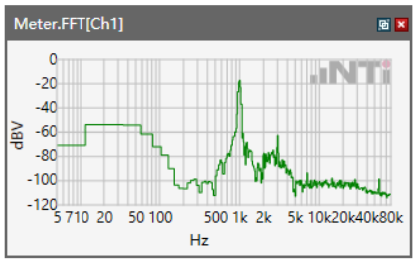
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\LTE Band 2.



Speech Level RCV: 86.19 dB[SPL]

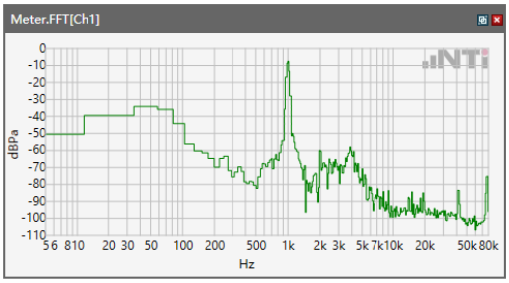
Calculated Value: 16.19 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\LTE Band 5



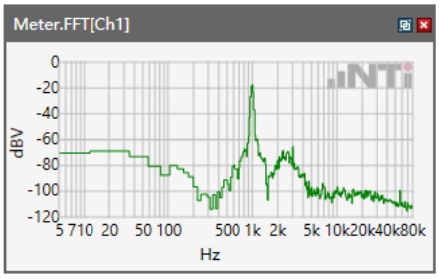
Speech Level RCV: 85.83 dB[SPL]
Calculated Value: 15.83 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\LTE Band 7



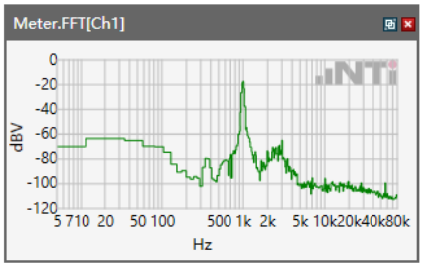
Speech Level RCV: 85 dB[SPL]
Calculated Value: 15 dB Ok

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



Speech Level RCV: 86.95 dB[SPL]
Calculated Value: 16.95 dB Ok

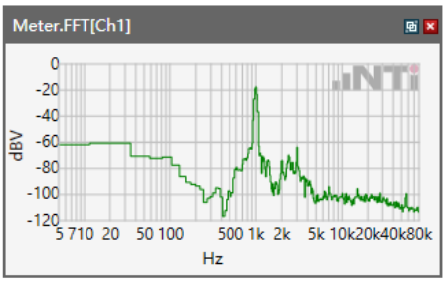
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\LTE Band 66



Speech Level RCV: 87.44 dB[SPL]

Calculated Value: 17.44 dB Ok

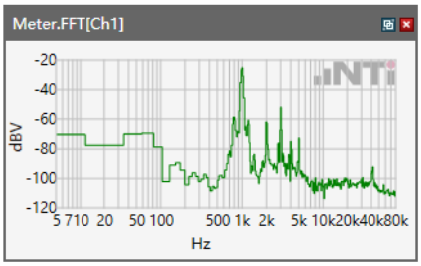
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\LTE Band 71



Speech Level RCV: 86.92 dB[SPL]

Calculated Value: 16.92 dB Ok

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

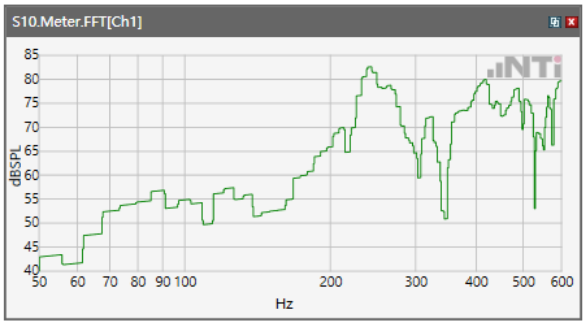


Speech Level RCV: 88.01 dB[SPL]

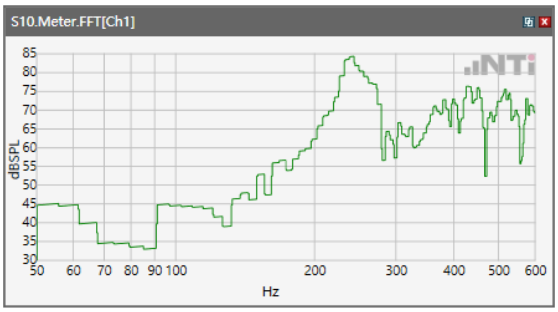
Calculated Value: 18.01 dB Ok

Receive path - distortion and noise 400Hz WB&NB

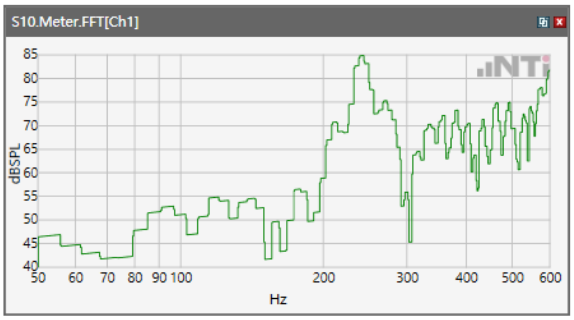
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



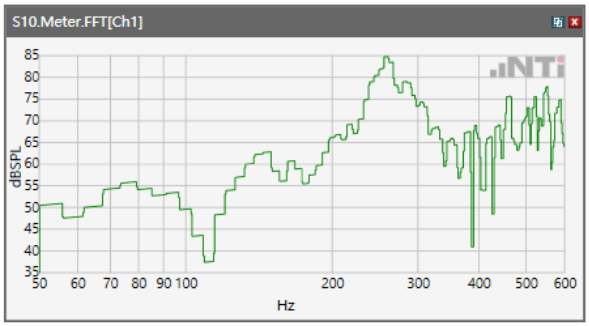
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



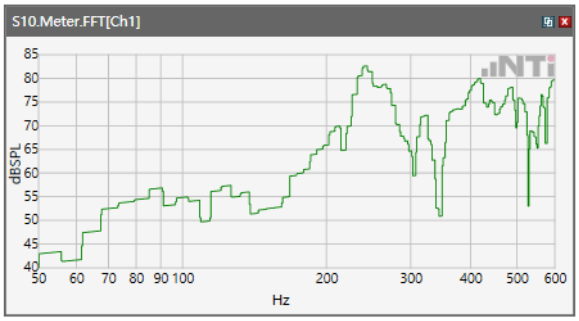
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



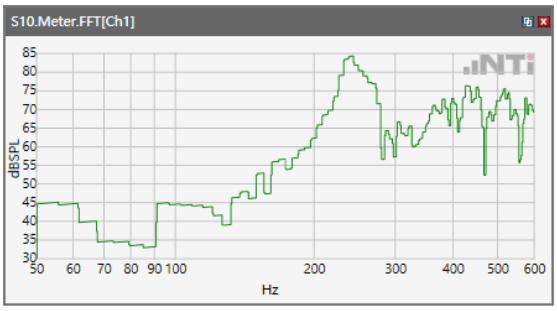
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



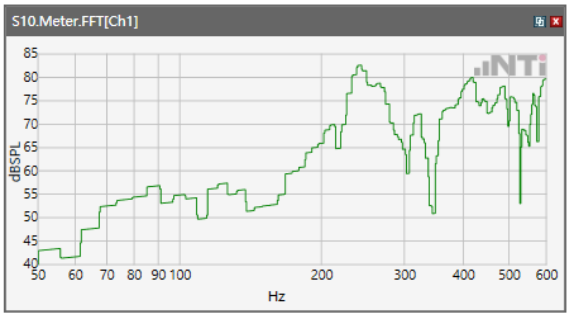
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



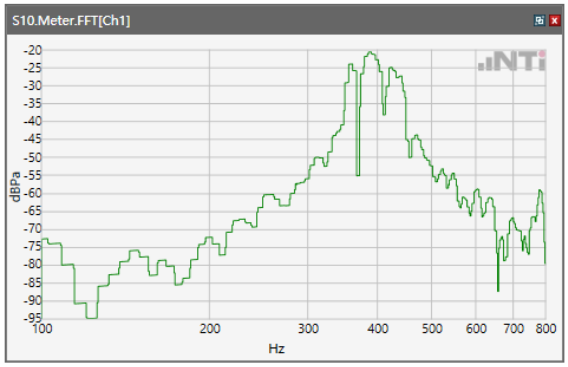
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



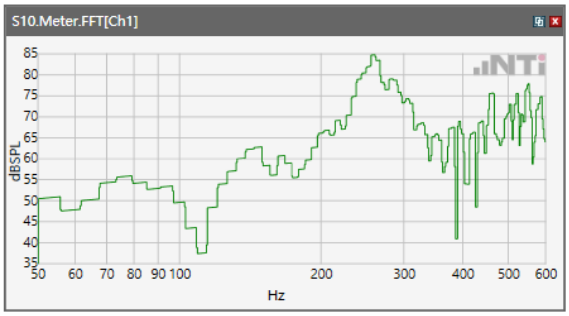
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



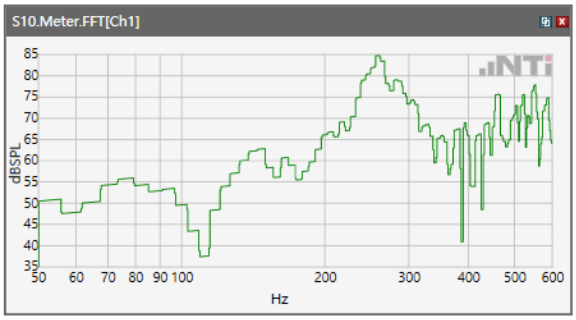
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



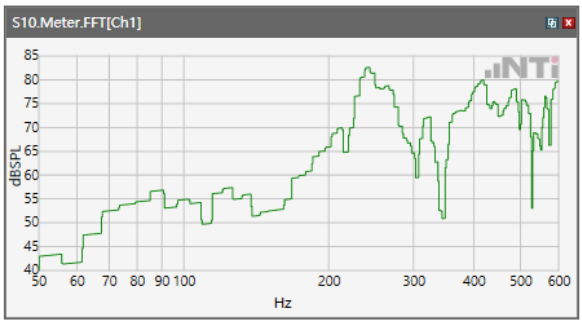
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



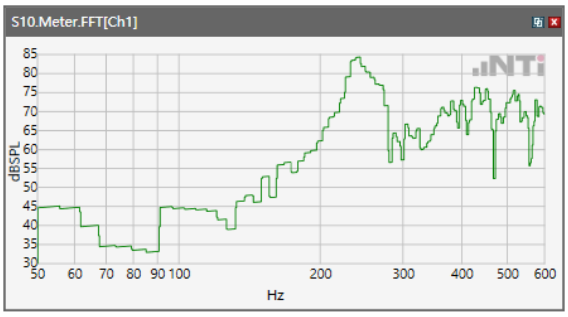
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

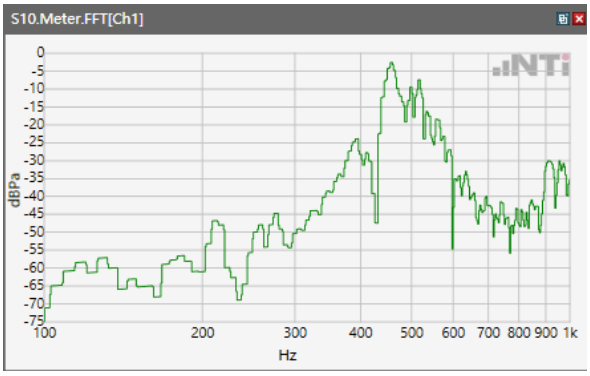


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

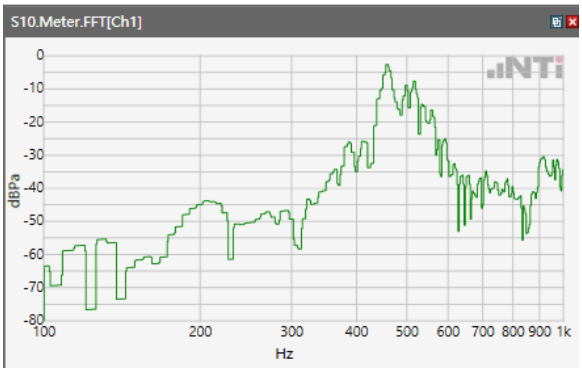


Receive path - distortion and noise 500Hz WB&NB

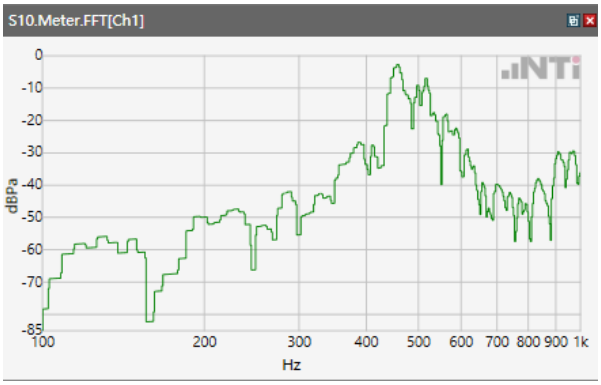
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



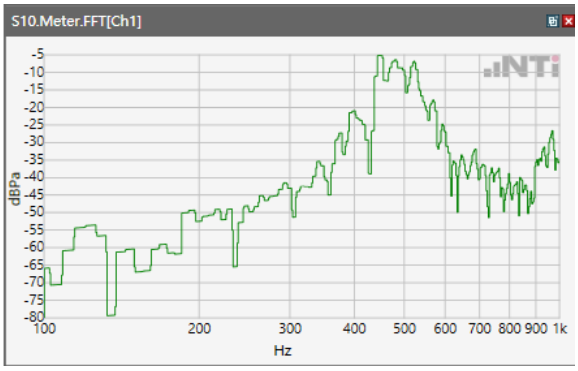
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



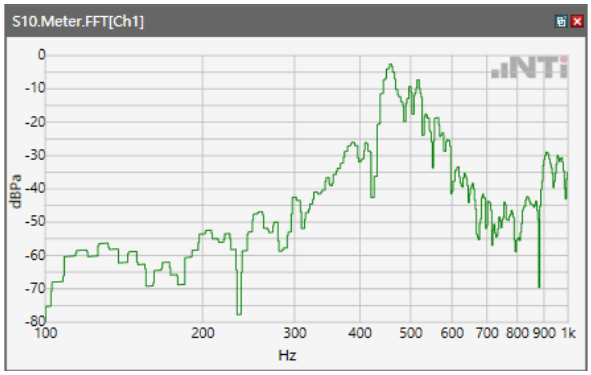
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



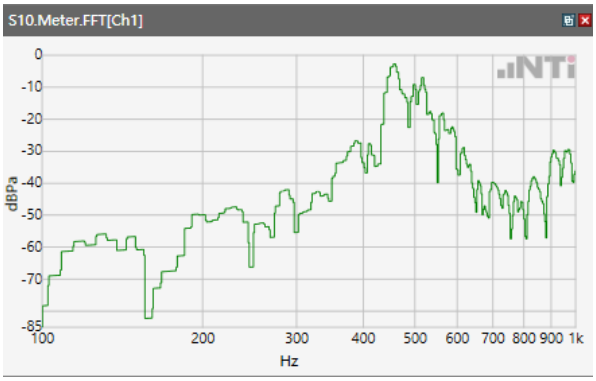
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



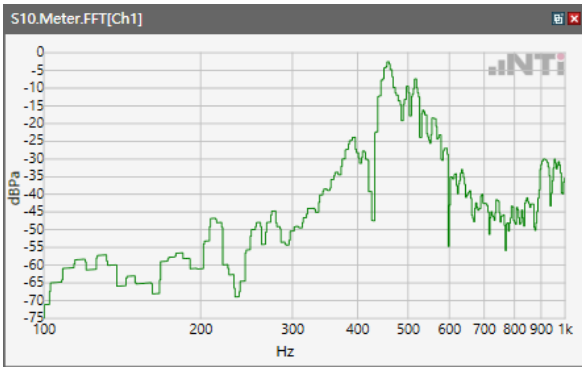
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



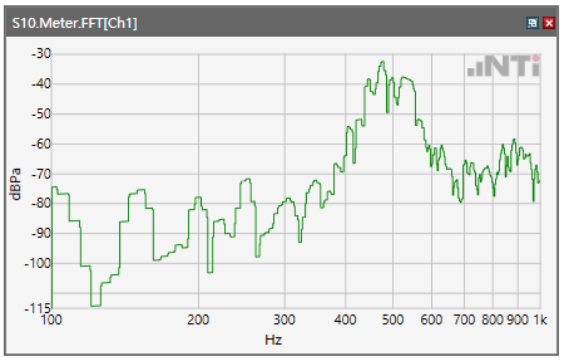
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



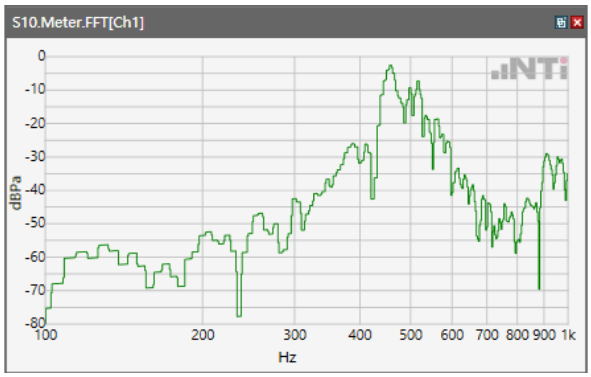
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5.



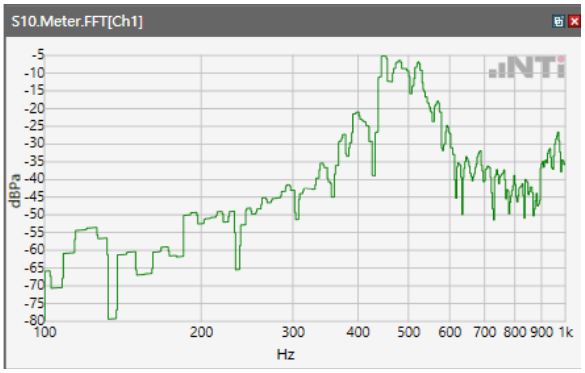
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



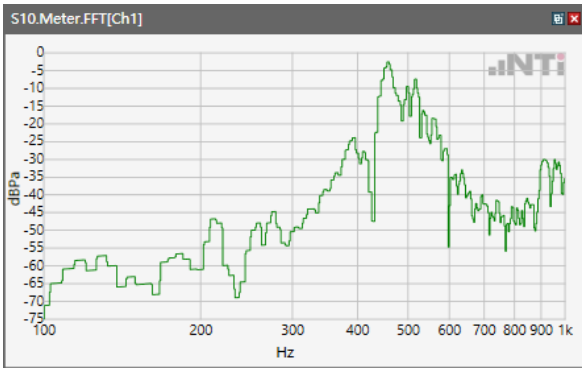
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12.



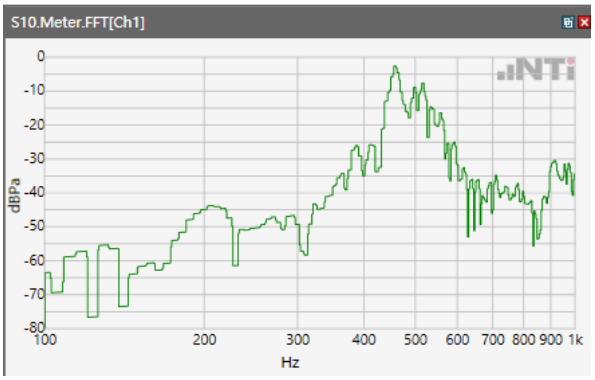
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

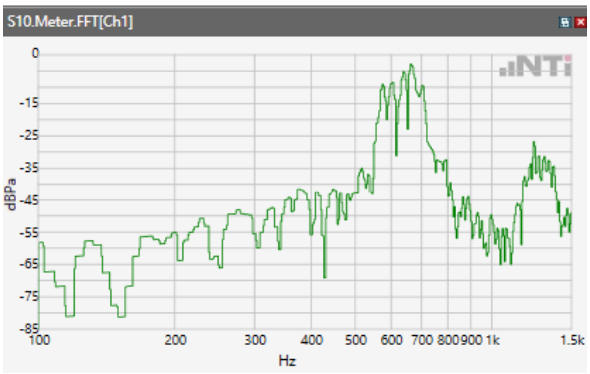


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

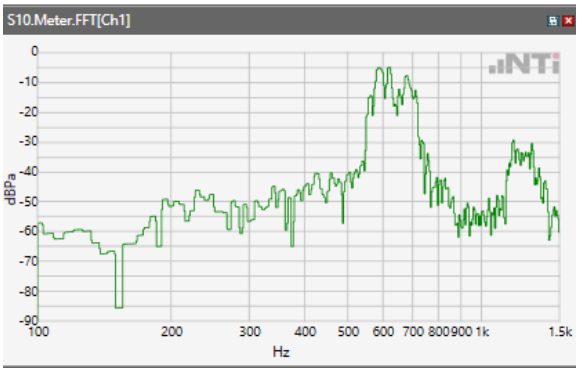


Receive path - distortion and noise 630Hz WB&NB

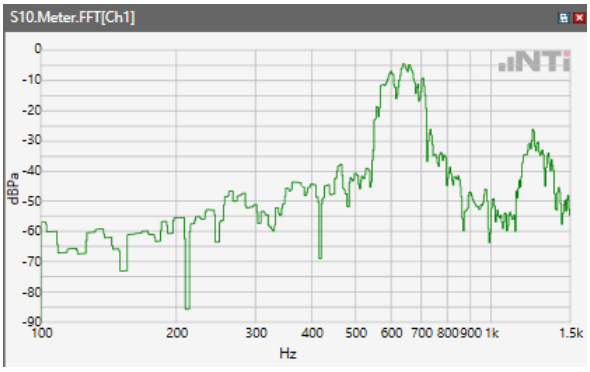
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



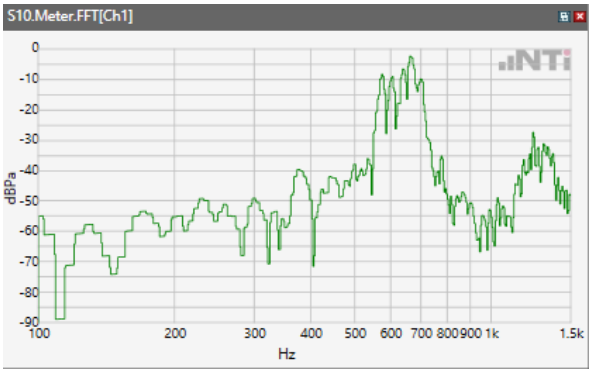
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



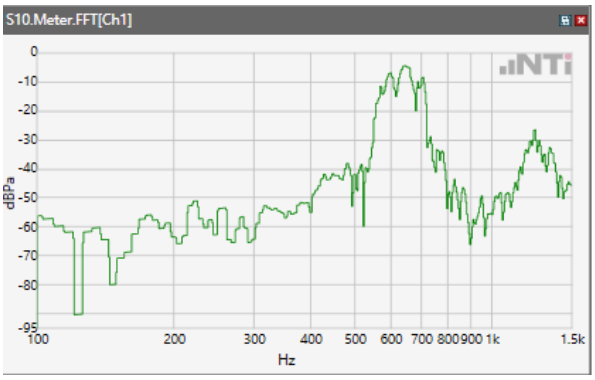
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



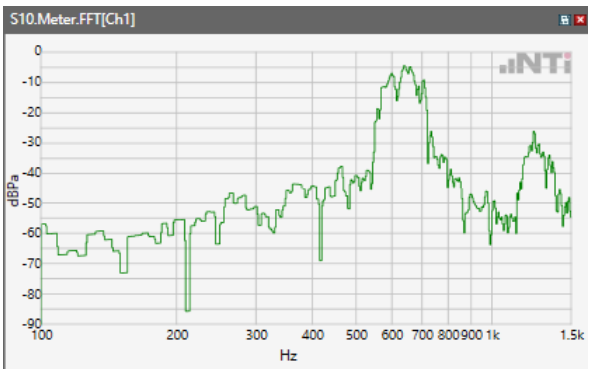
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



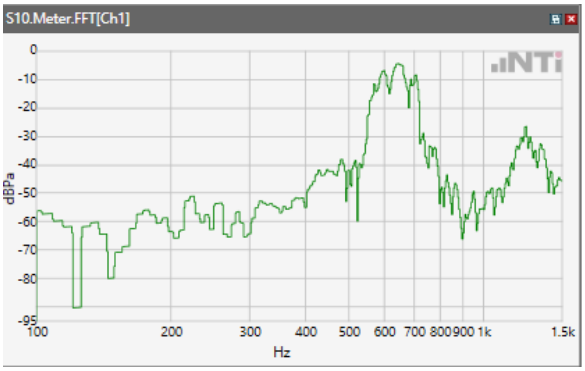
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



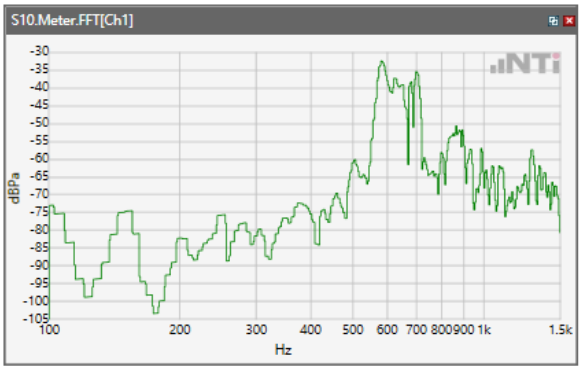
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



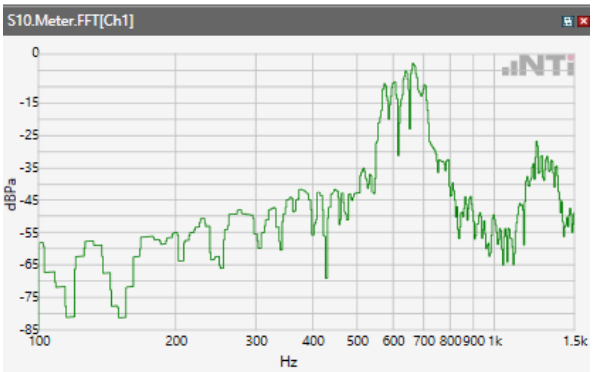
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



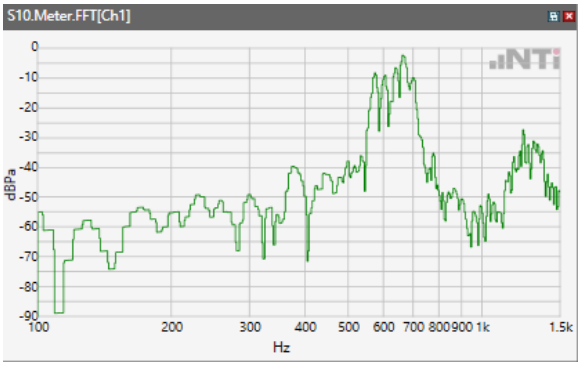
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



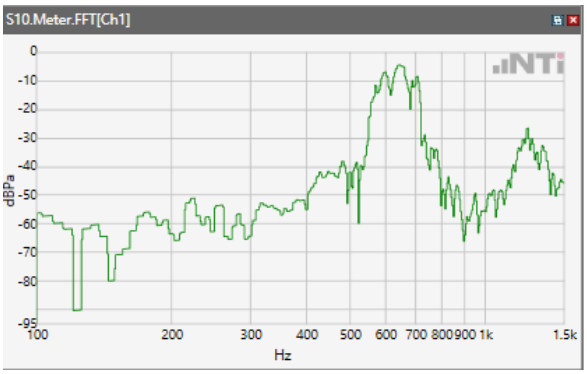
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



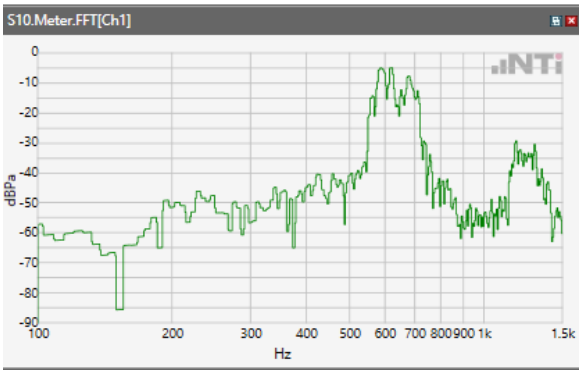
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

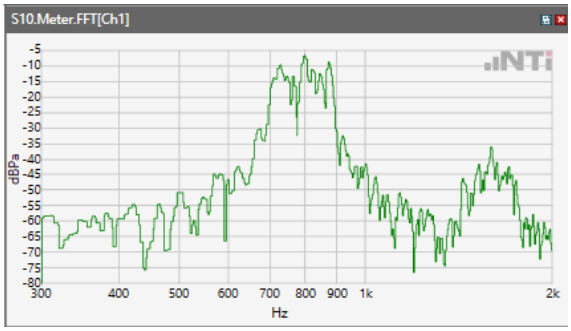


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

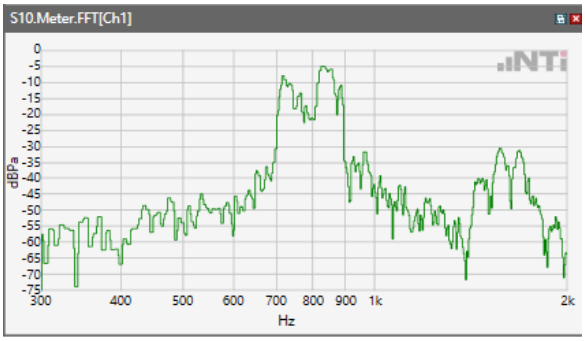


Receive path - distortion and noise 800Hz WB&NB

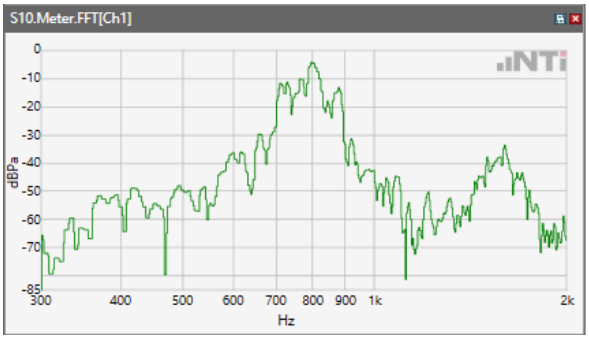
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



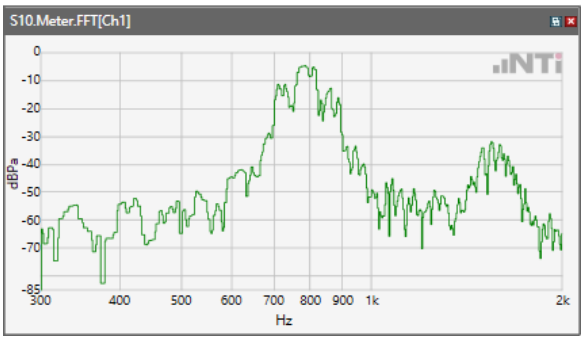
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



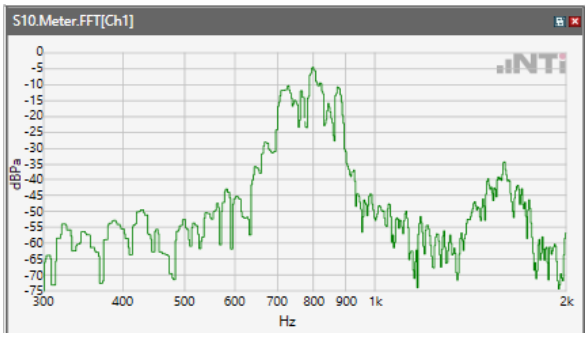
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



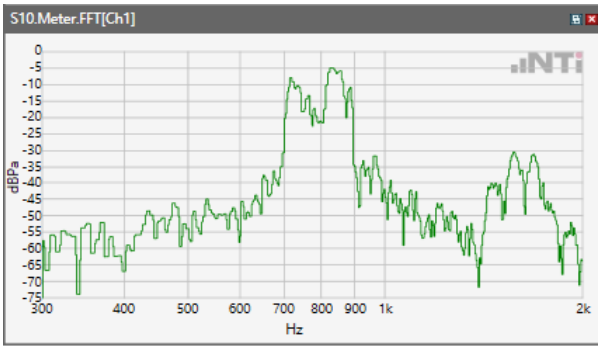
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



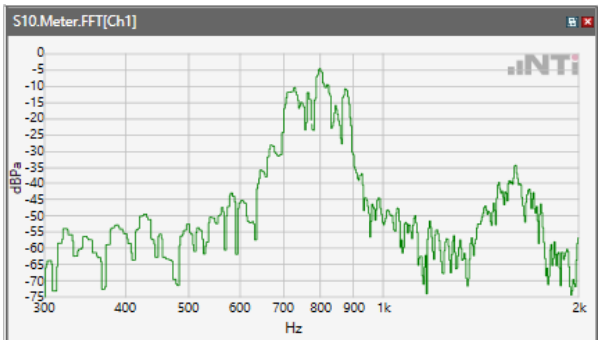
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



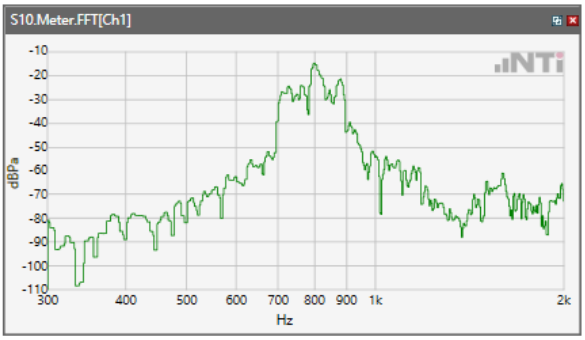
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



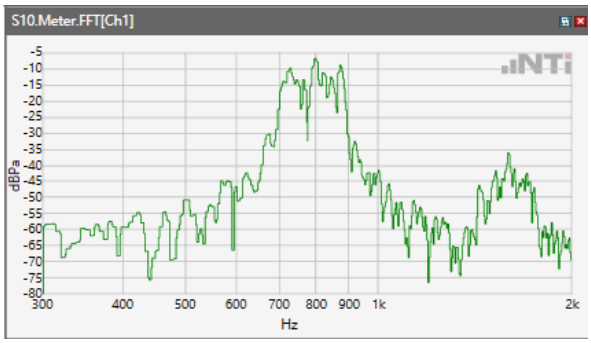
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5.



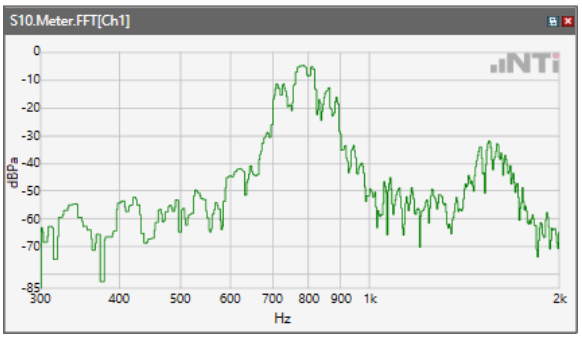
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



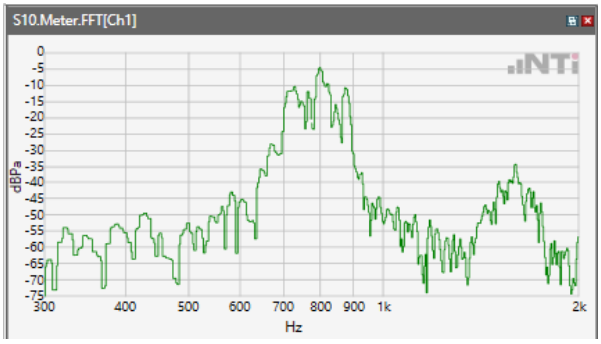
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



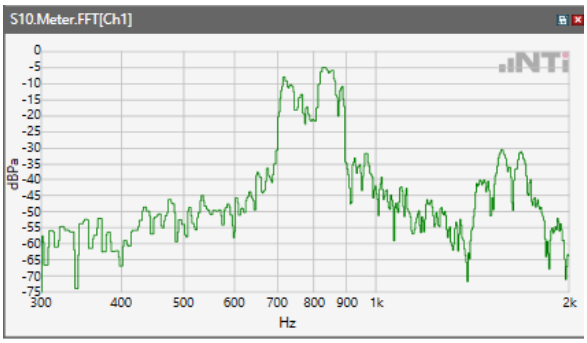
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

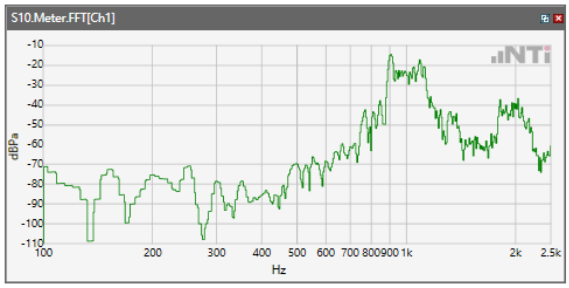


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

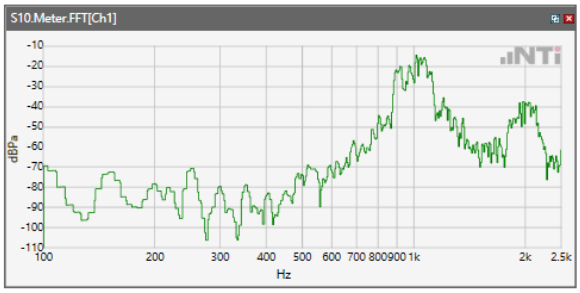


Receive path - distortion and noise 1000Hz WB&NB

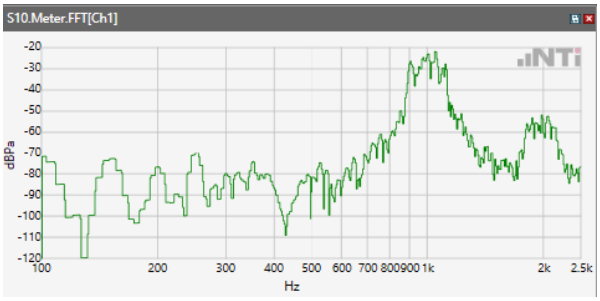
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



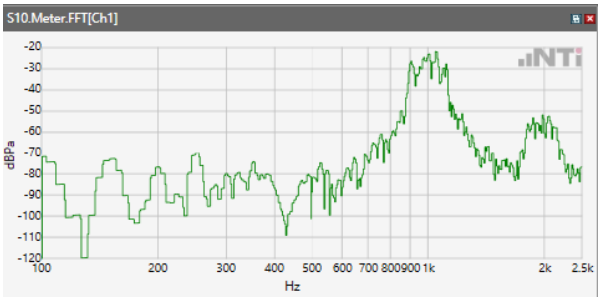
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



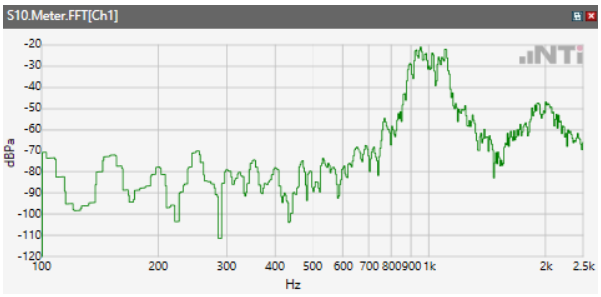
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



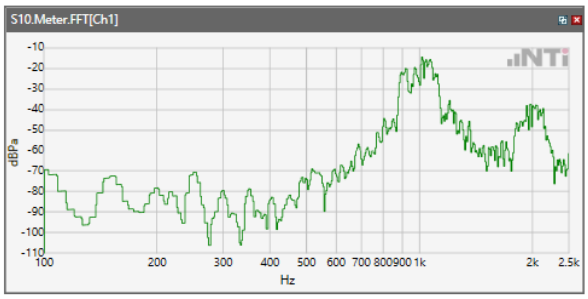
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



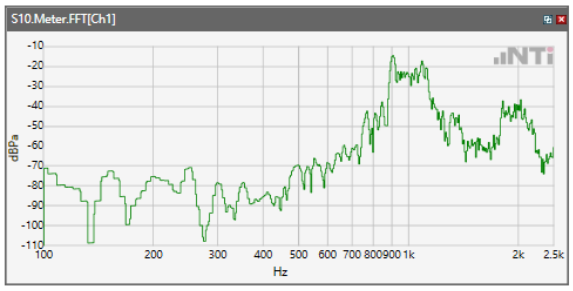
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



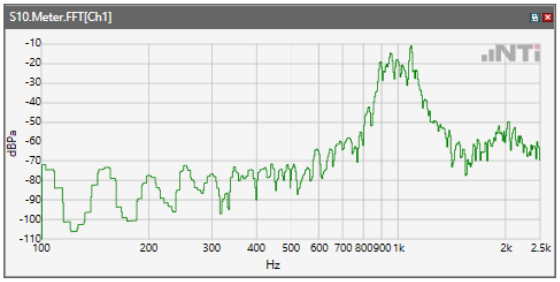
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



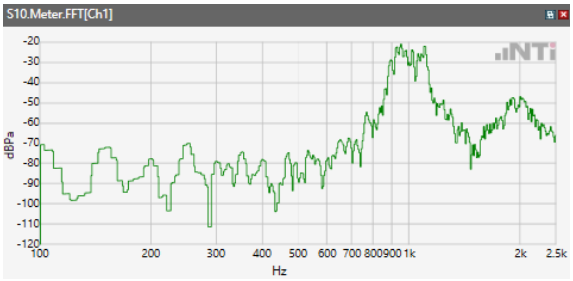
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



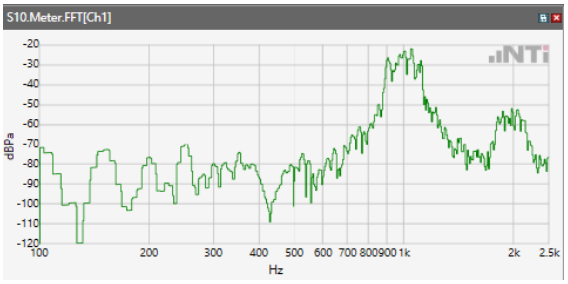
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



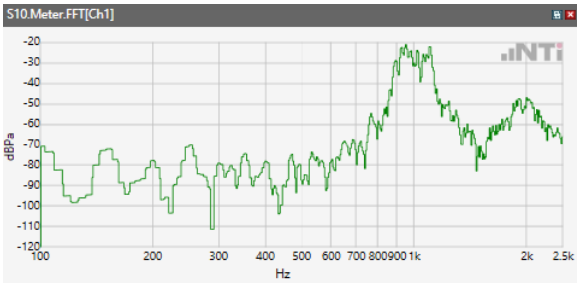
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



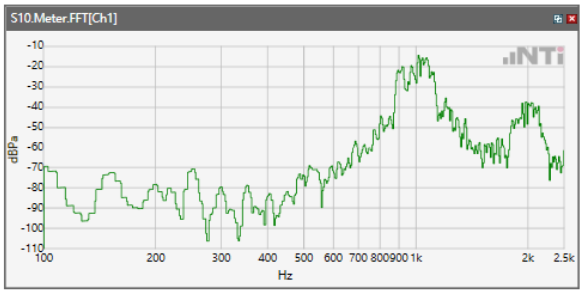
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

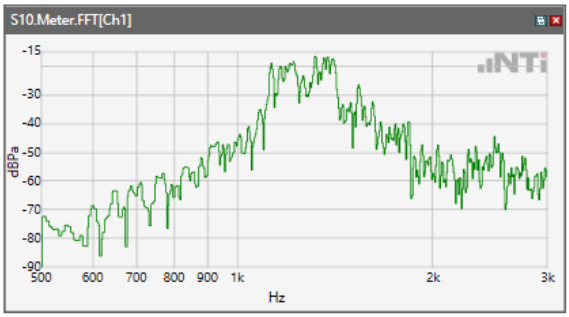


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

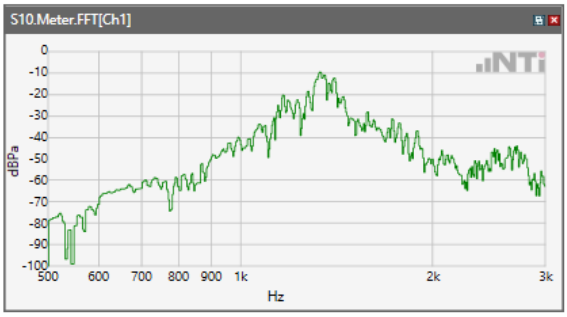


Receive path - distortion and noise 1250Hz WB&NB

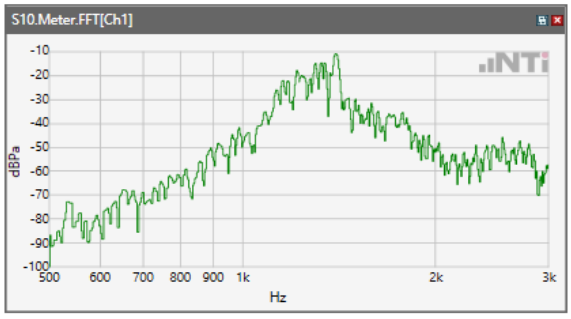
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



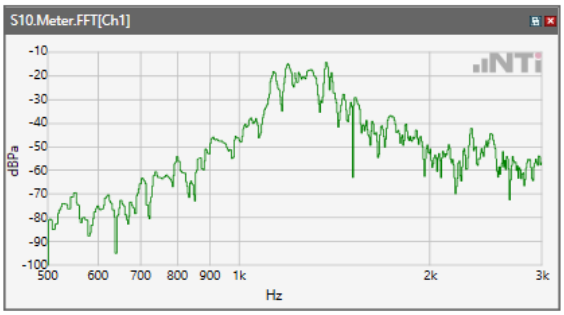
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



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

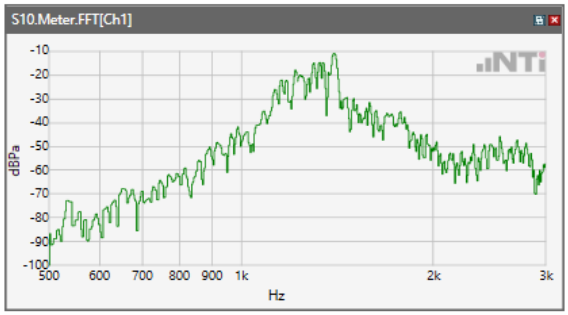


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



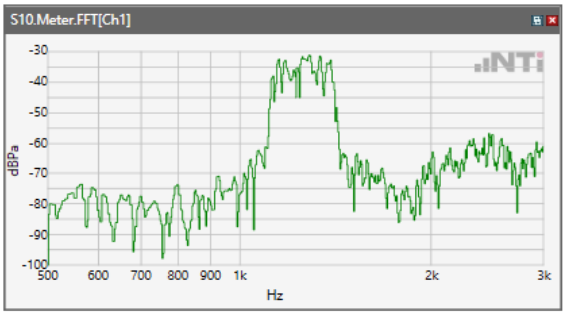
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V

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

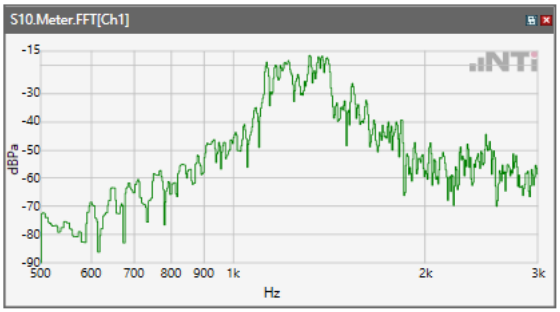


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5..

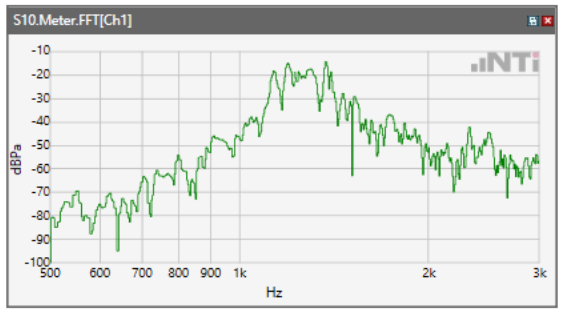
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



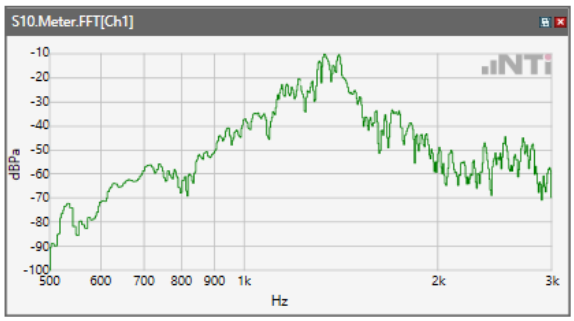
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



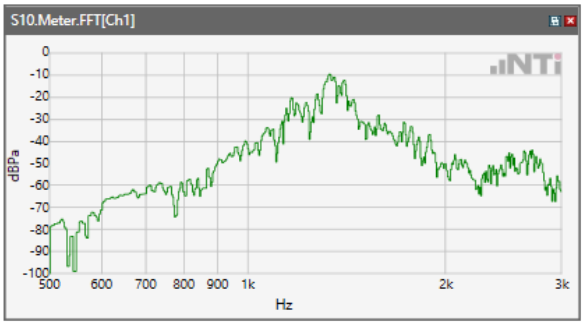
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

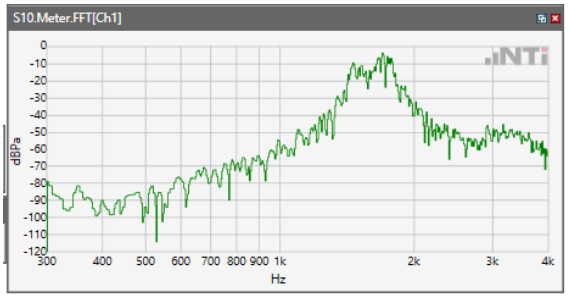


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

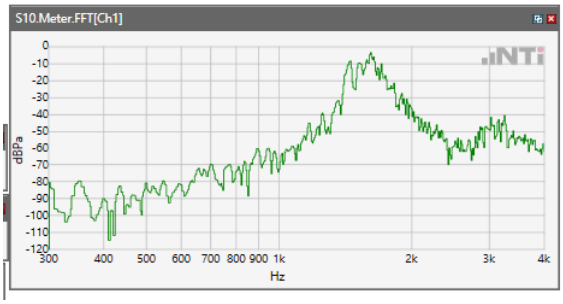


Receive path - distortion and noise 1600Hz WB&NB

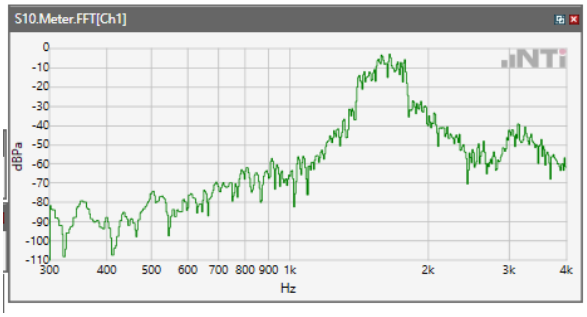
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



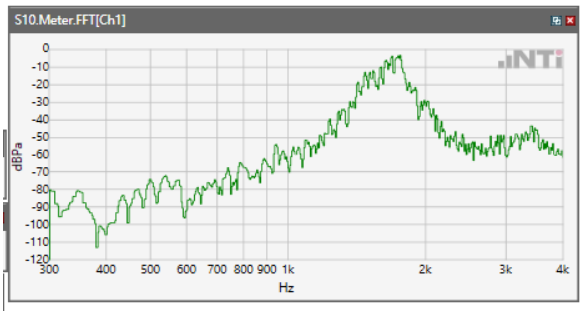
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



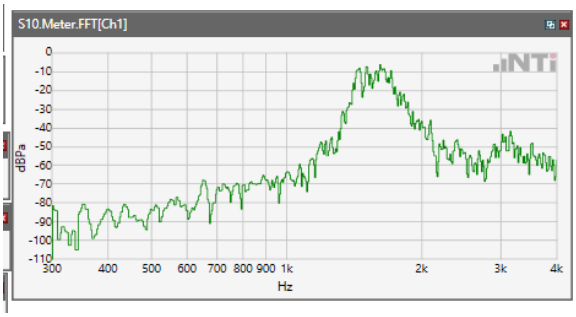
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



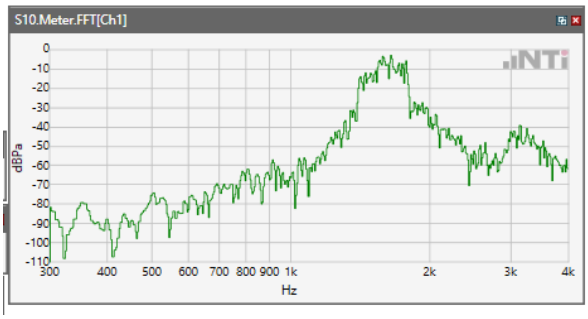
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



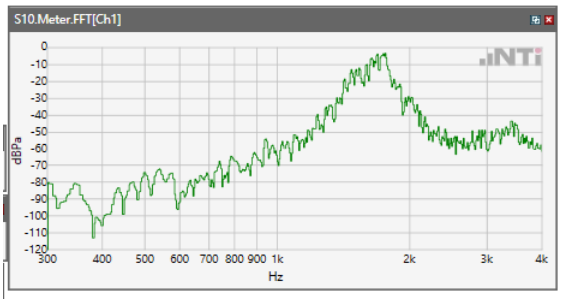
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



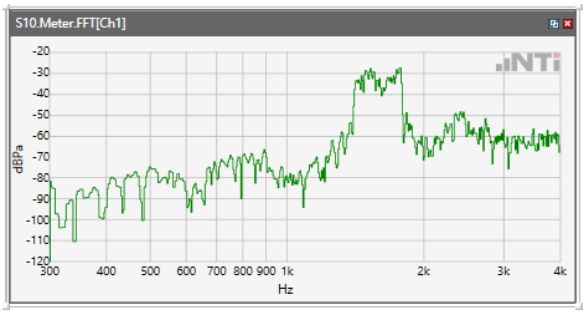
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



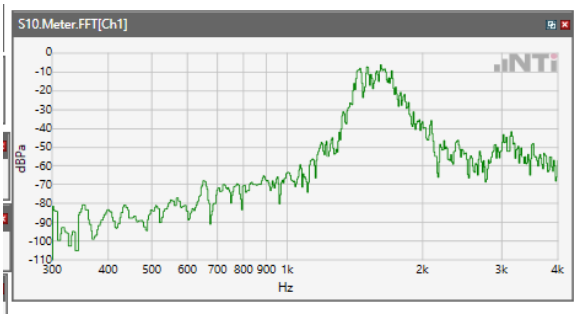
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5.



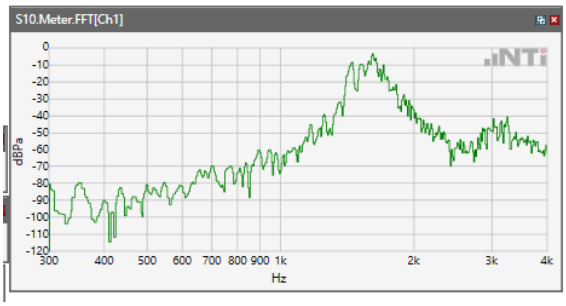
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



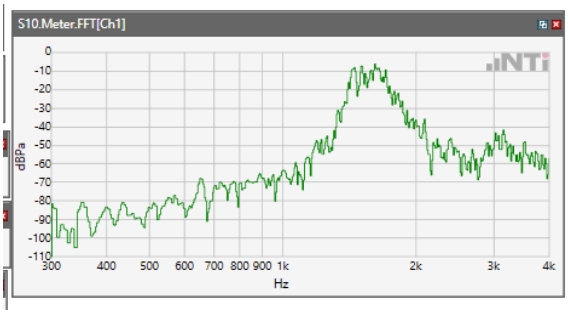
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



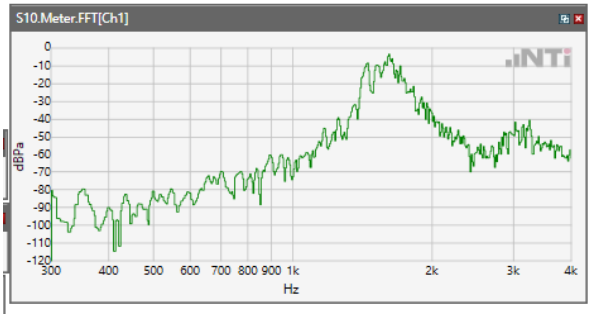
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

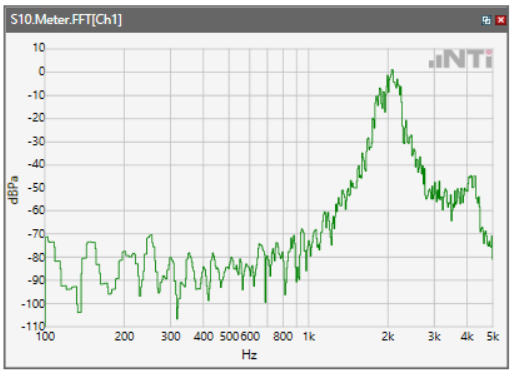


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

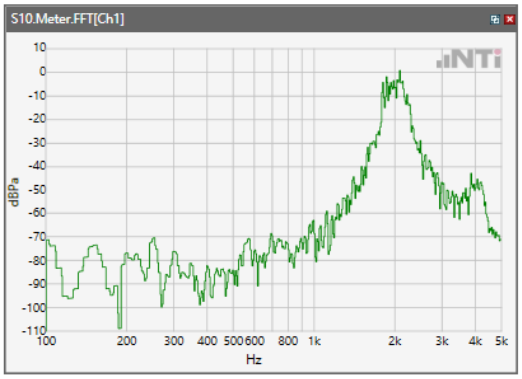


Receive path - distortion and noise 2000Hz WB&NB

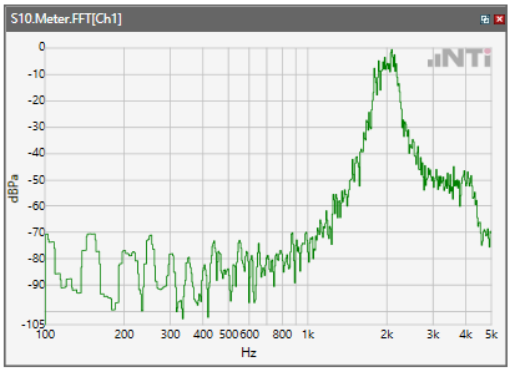
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



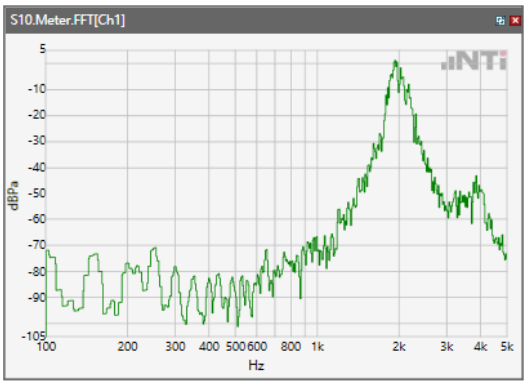
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



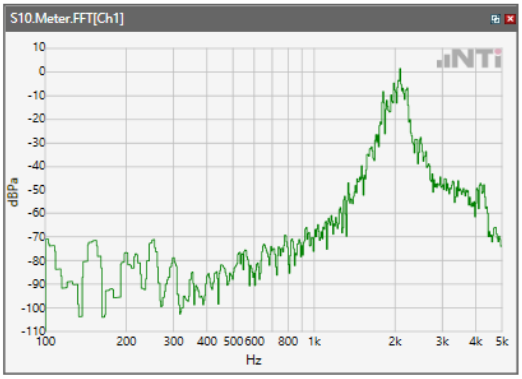
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



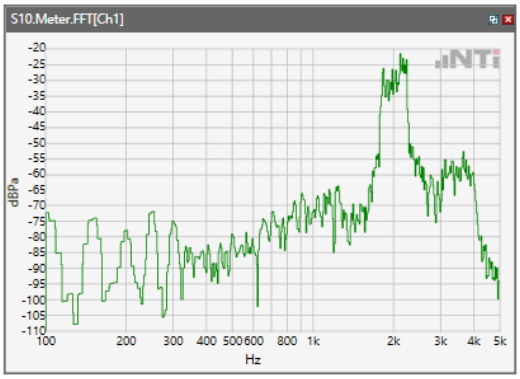
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



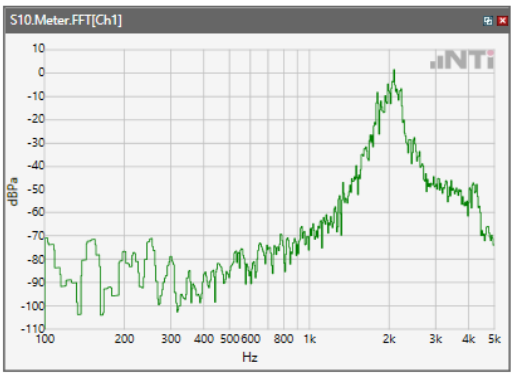
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



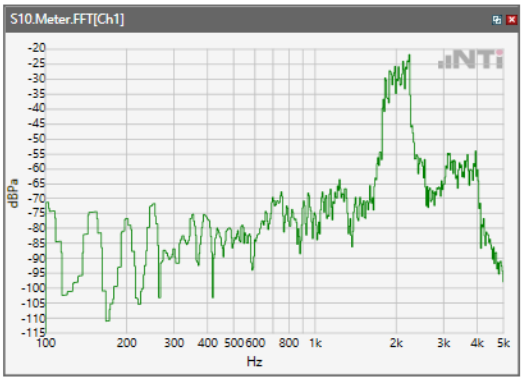
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



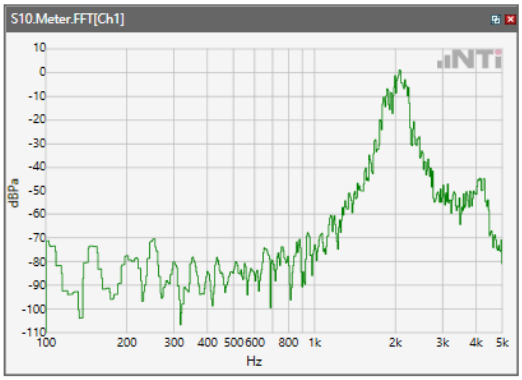
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



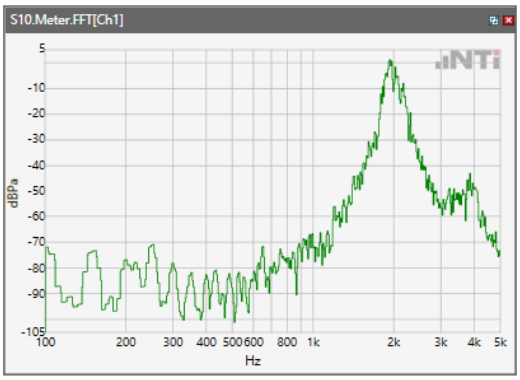
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



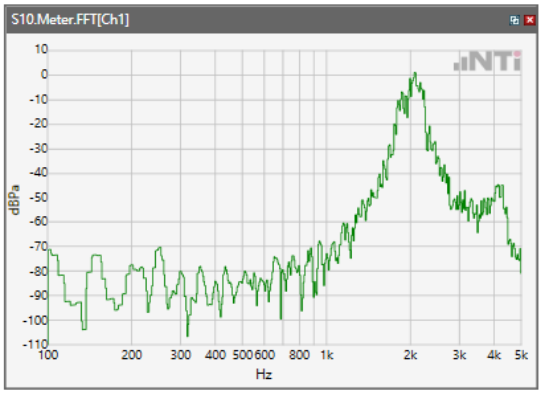
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



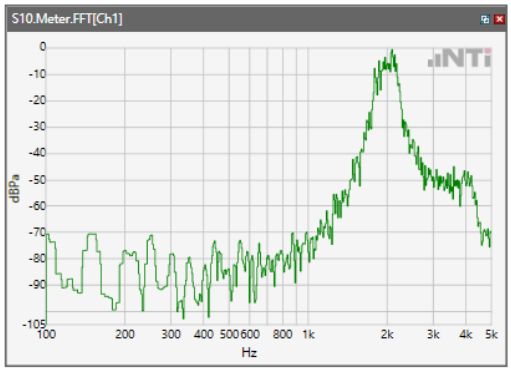
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

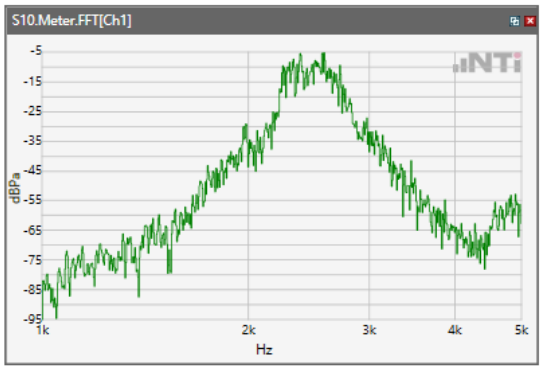


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

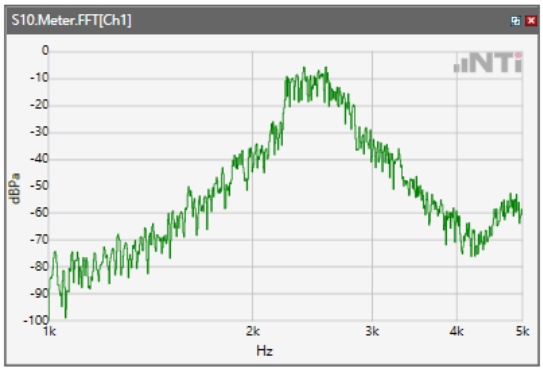


Receive path - distortion and noise 2500Hz WB&NB

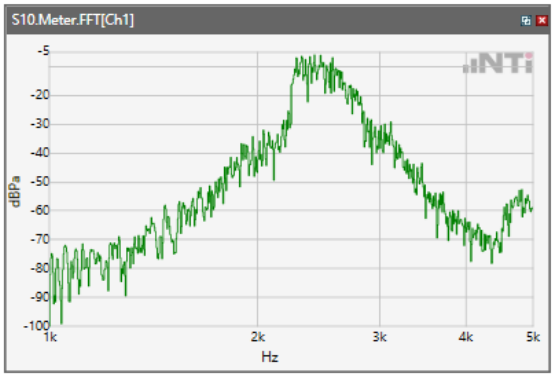
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



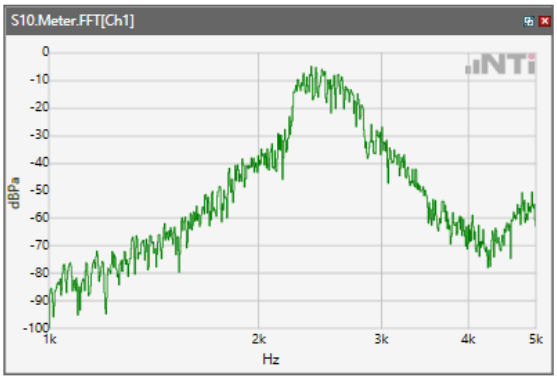
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



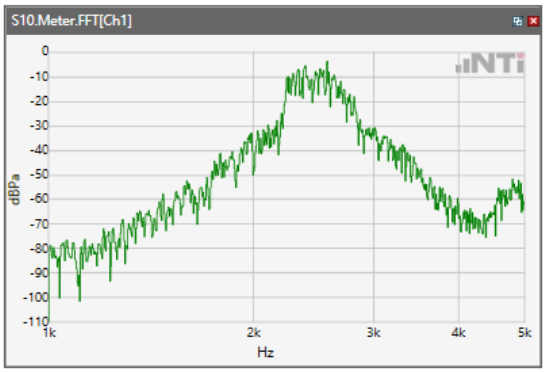
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



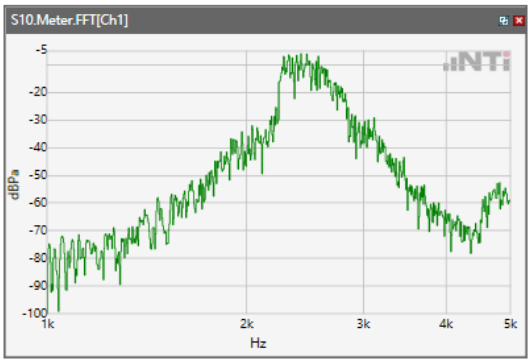
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



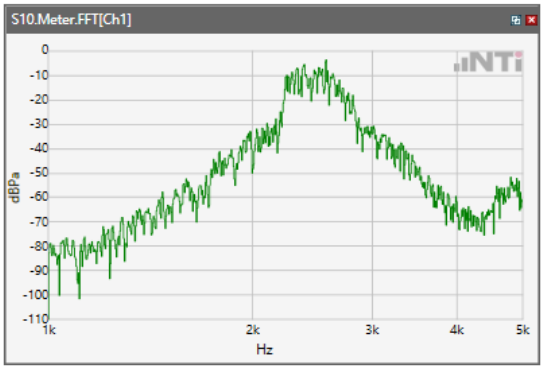
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



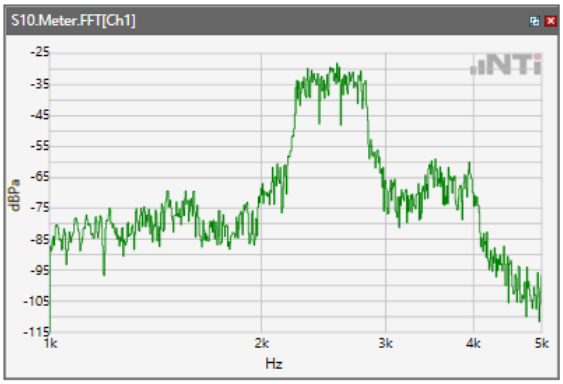
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2.



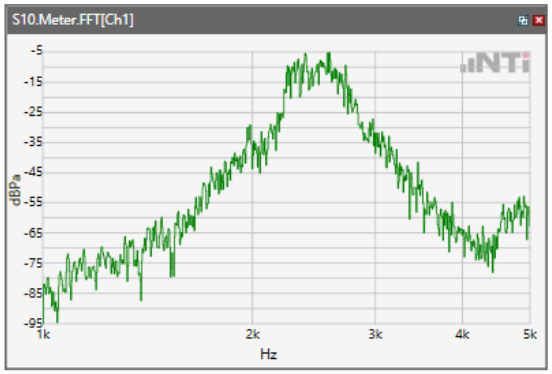
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5..



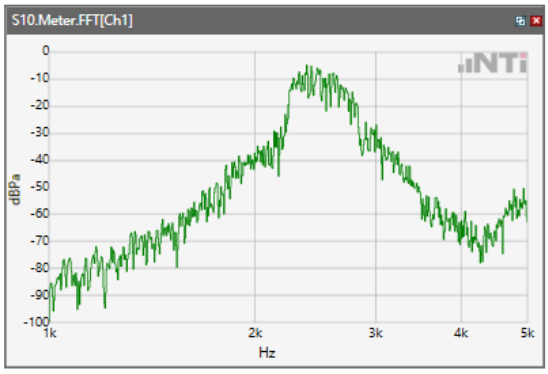
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



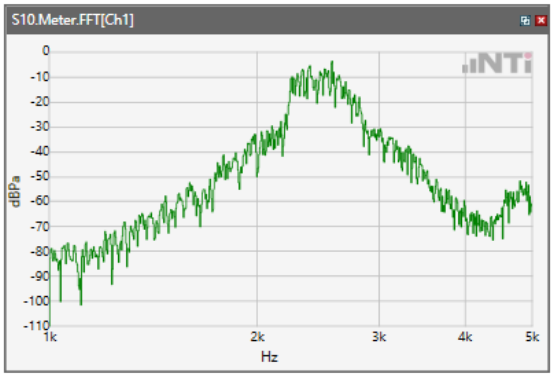
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



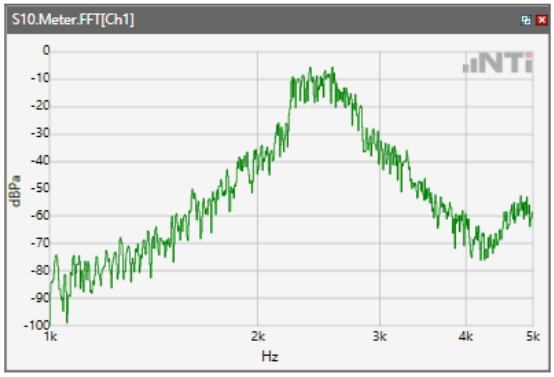
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

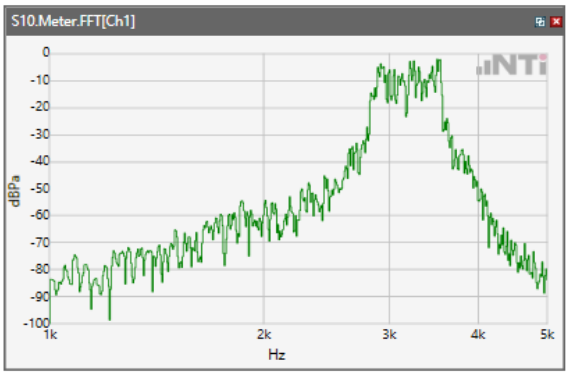


ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

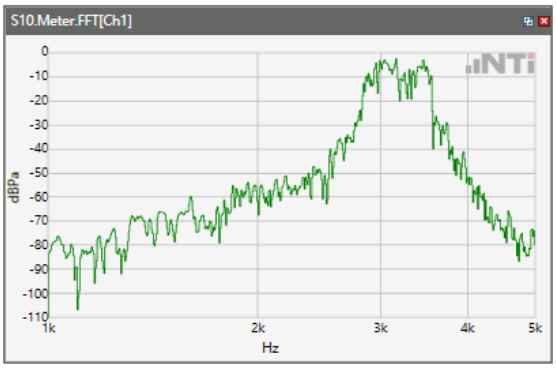


Receive path - distortion and noise 3150Hz WB&NB

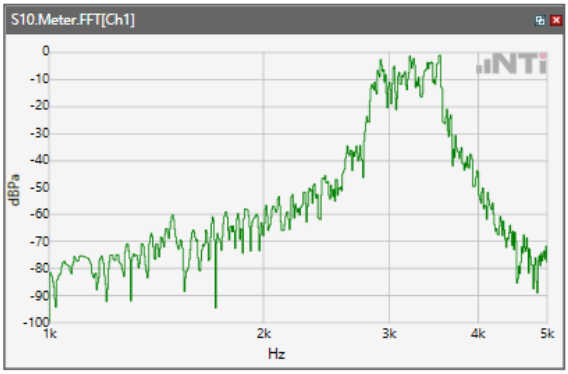
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



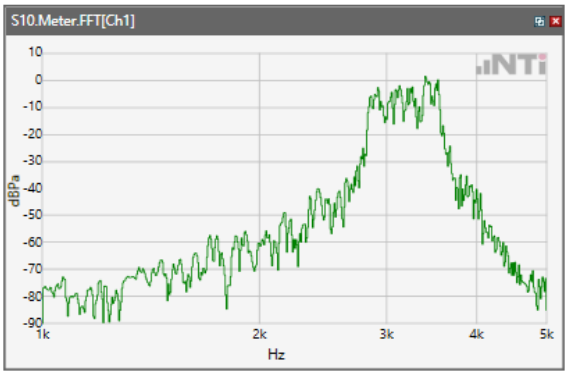
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



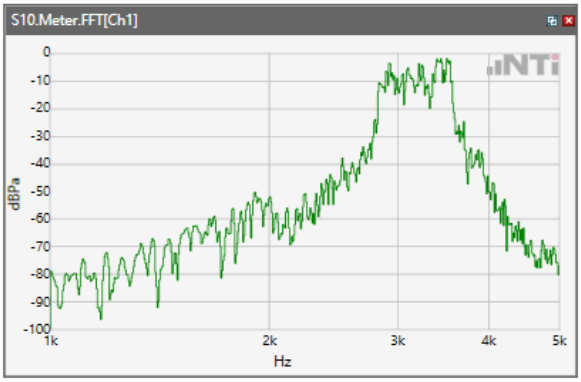
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



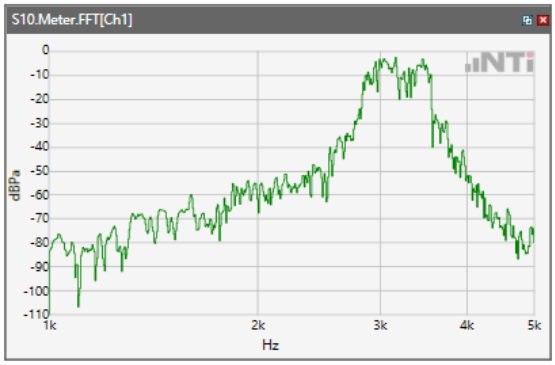
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



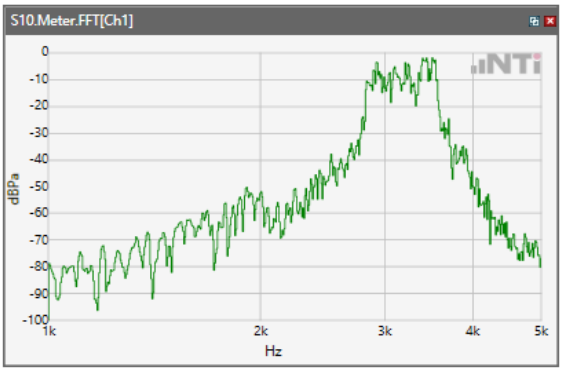
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



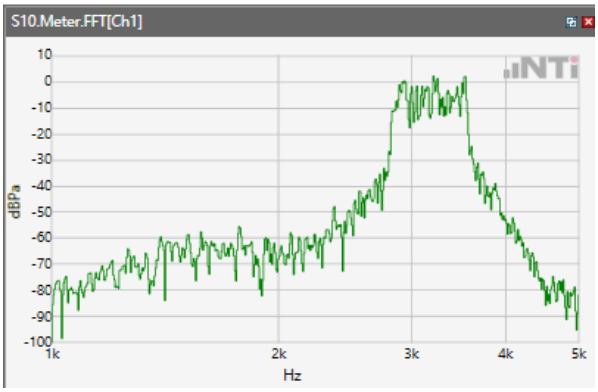
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



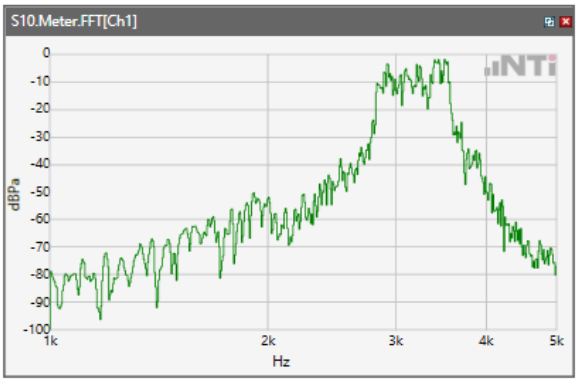
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



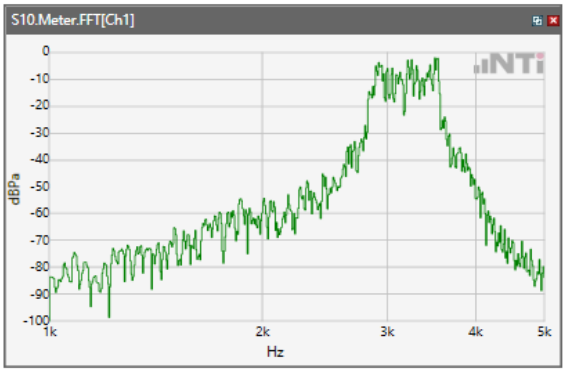
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7.



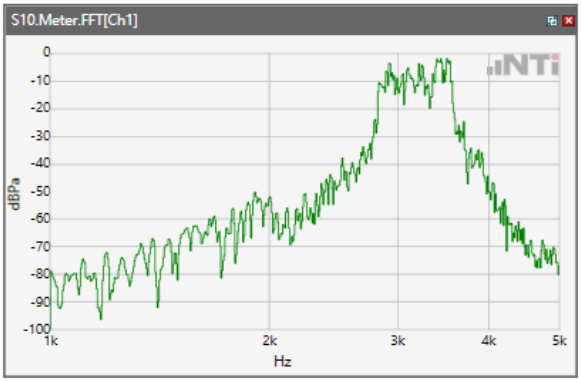
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12..



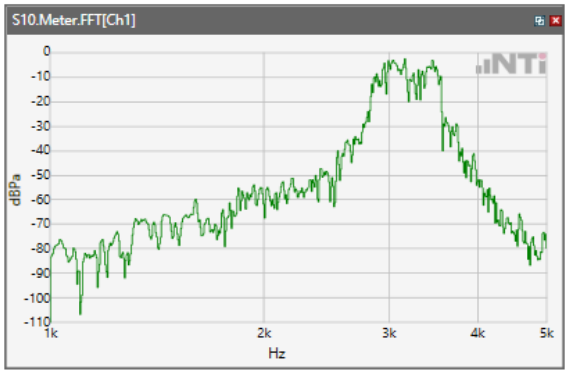
ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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

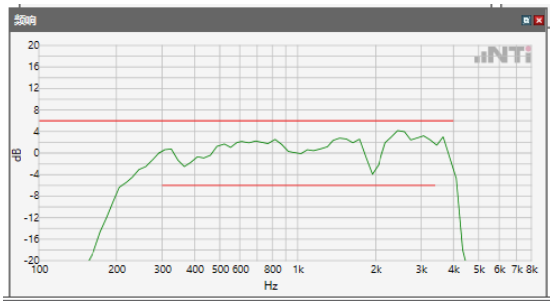


5.2 Receive path – distortion and noise

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

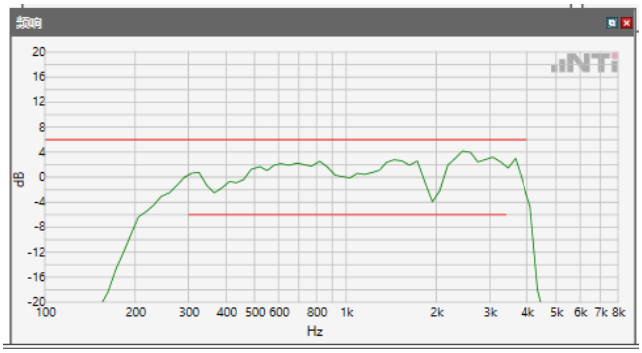
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

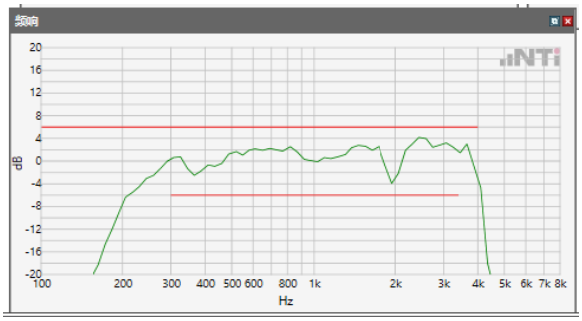
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

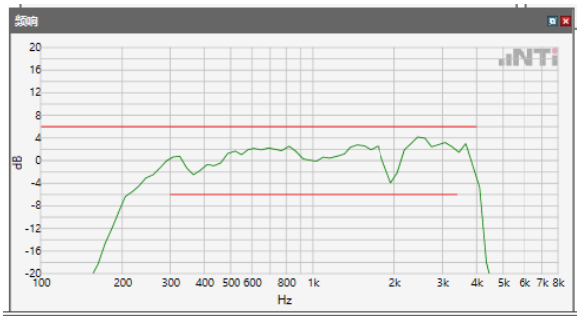
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

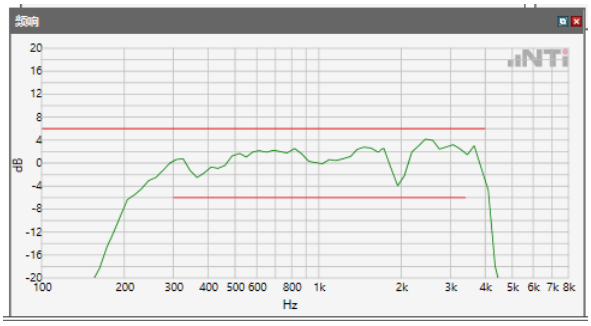
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

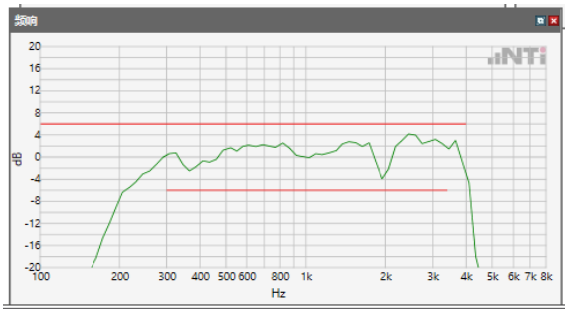
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

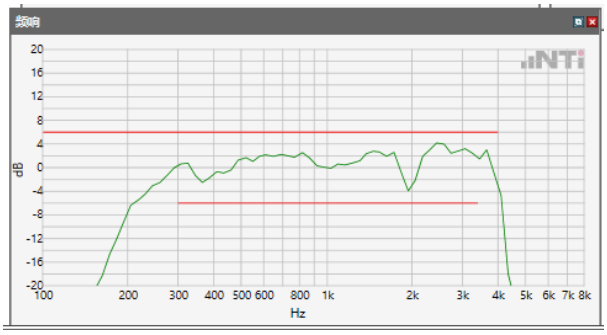
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 5



Absolute minimal distance

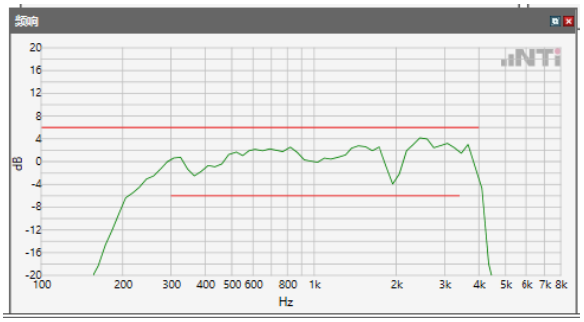
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ NB 12.2kbps \LTE Band 7



Absolute minimal distance

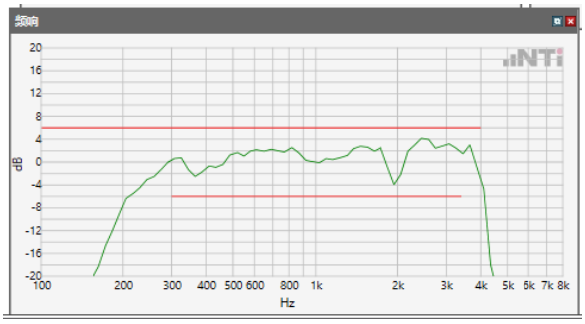
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

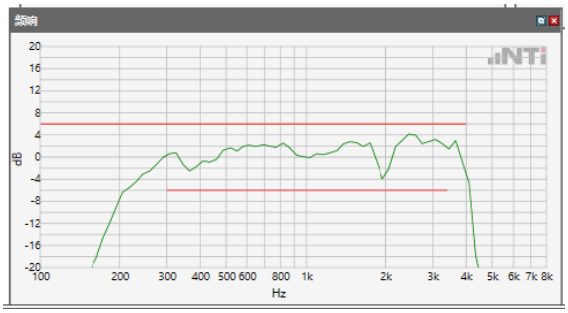
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

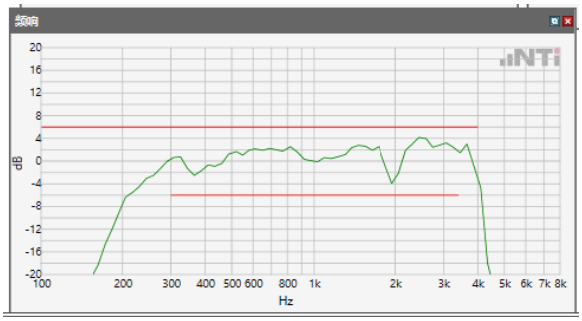
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

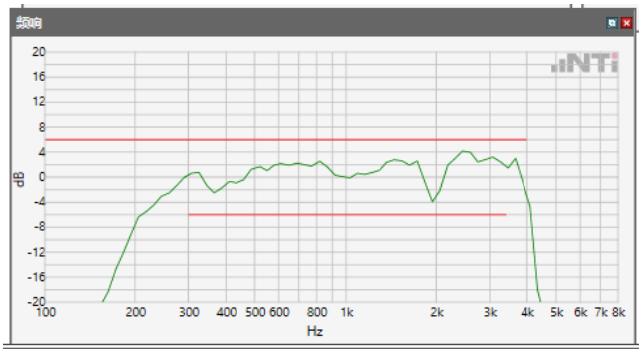
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



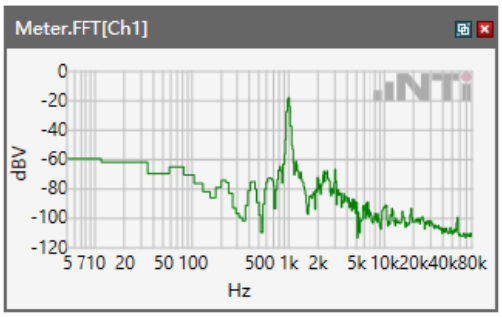
Absolute minimal distance

OK

OK

5.1 Receive Volume Control Performance 2N---WB

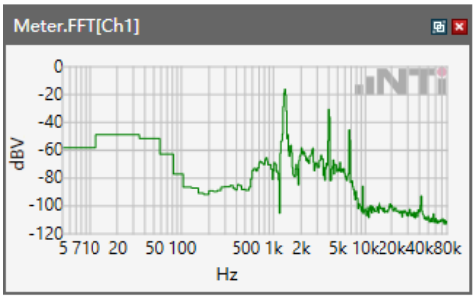
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\GSM 850



Speech Level RCV: 85.34 dB[SPL]

Calculated Value: 15.34 dB Ok

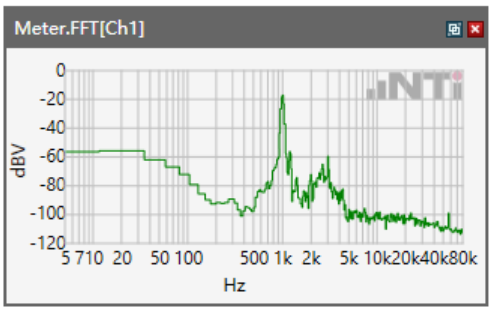
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\GSM 1900



Speech Level RCV: 84.78 dB[SPL]

Calculated Value: 14.78 dB Ok

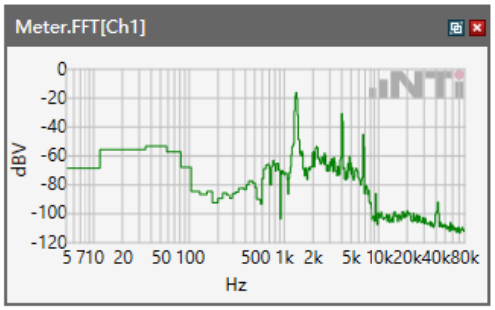
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\WCDMA Band II



Speech Level RCV: 83.85 dB[SPL]

Calculated Value: 13.85 dB Ok

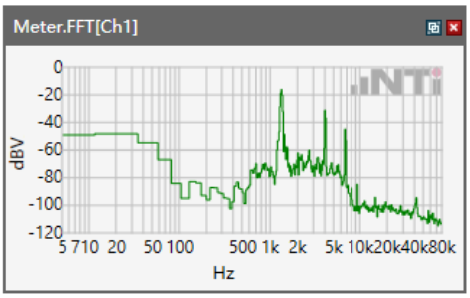
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\WCDMA Band IV



Speech Level RCV: 84.71 dB[SPL]

Calculated Value: 14.71 dB Ok

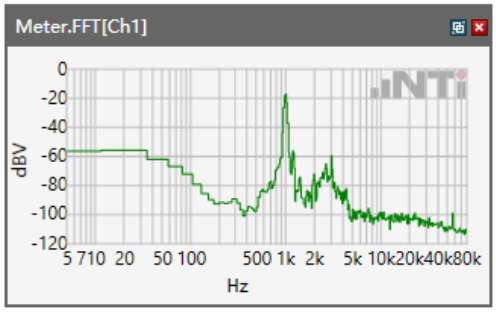
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\WCDMA Band V



Speech Level RCV: 85.34 dB[SPL]

Calculated Value: 15.34 dB Ok

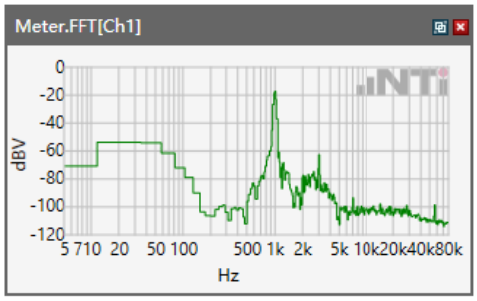
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps \LTE Band 2



Speech Level RCV: 84.78 dB[SPL]

Calculated Value: 14.78 dB Ok

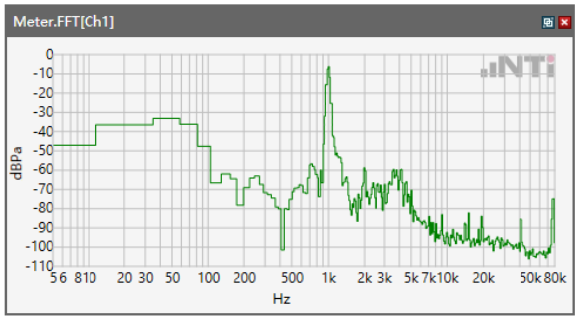
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps \LTE Band 5



Speech Level RCV: 85.39 dB[SPL]

Calculated Value: 15.39 dB Ok

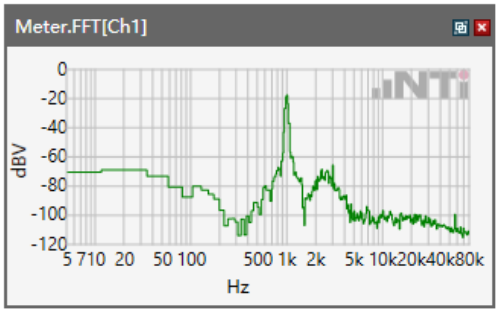
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ LTE Band 7



Speech Level RCV: 83.89 dB[SPL]

Calculated Value: 13.89 dB Ok

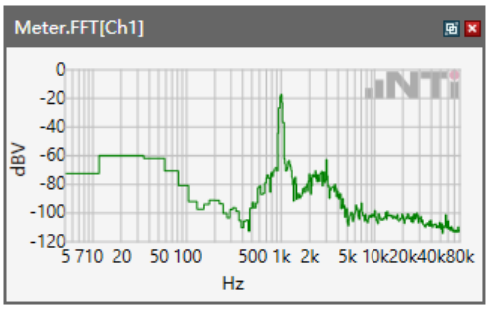
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ LTE Band 12



Speech Level RCV: 86.12 dB[SPL]

Calculated Value: 16.12 dB Ok

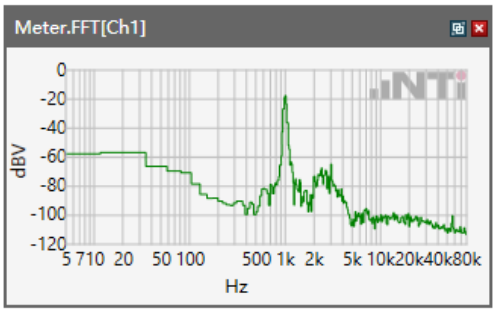
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ LTE Band 66



Speech Level RCV: 87.16 dB[SPL]

Calculated Value: 17.16 dB Ok

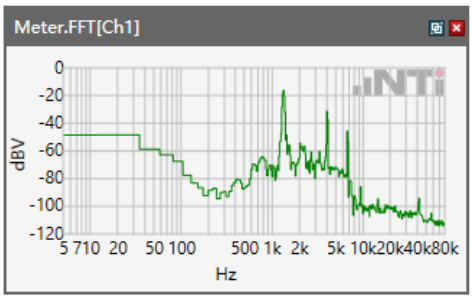
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ LTE Band 71



Speech Level RCV: 86.29 dB[SPL]

Calculated Value: 16.29 dB Ok

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

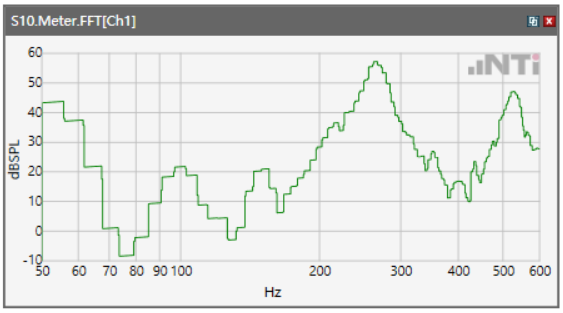


Speech Level RCV: 86.83 dB[SPL]

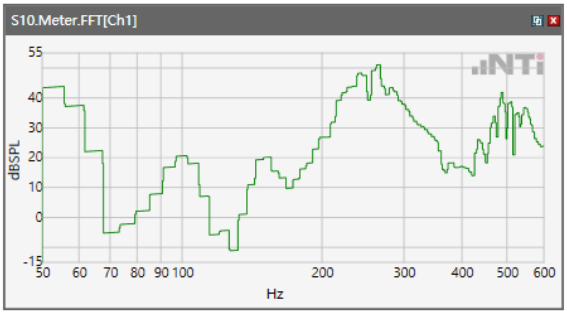
Calculated Value: 16.83 dB Ok

Receive path - distortion and noise 250 WB only

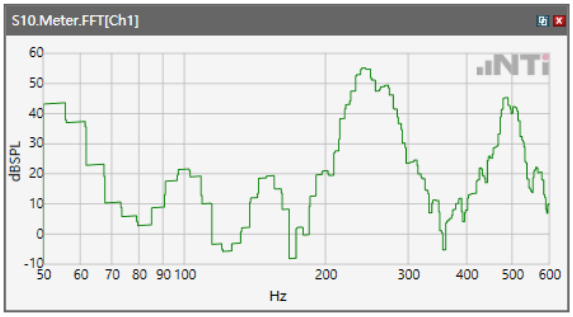
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



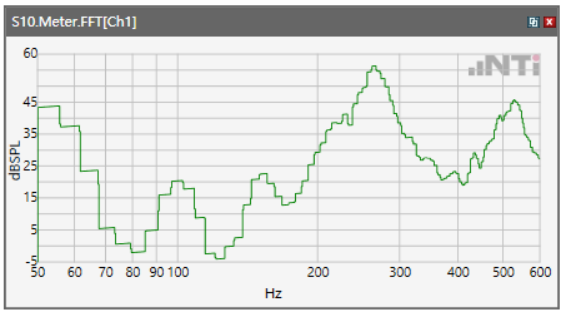
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



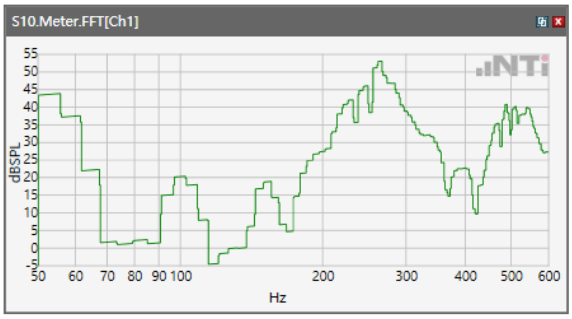
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



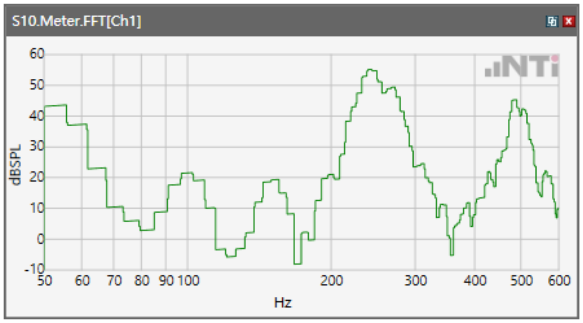
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



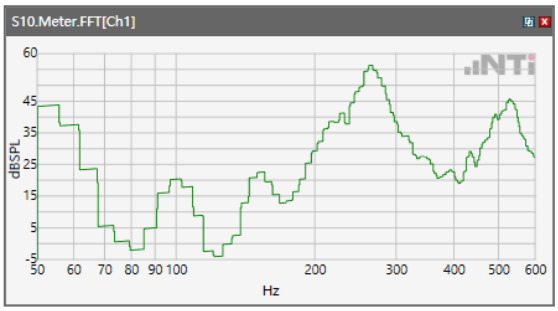
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



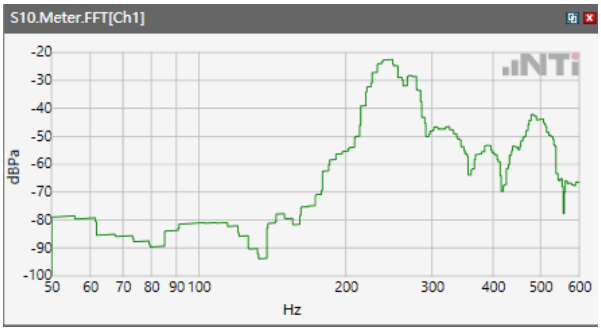
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



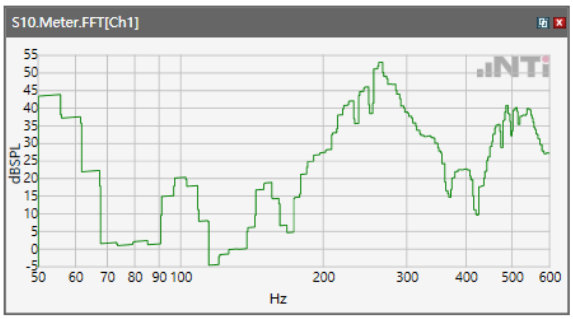
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



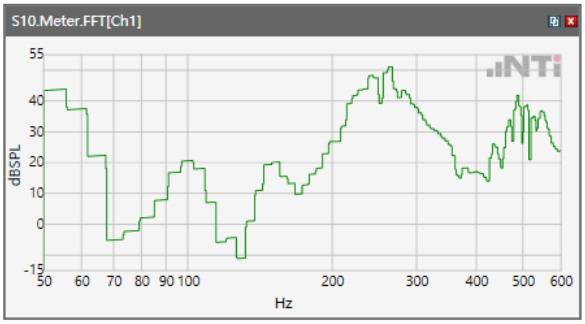
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



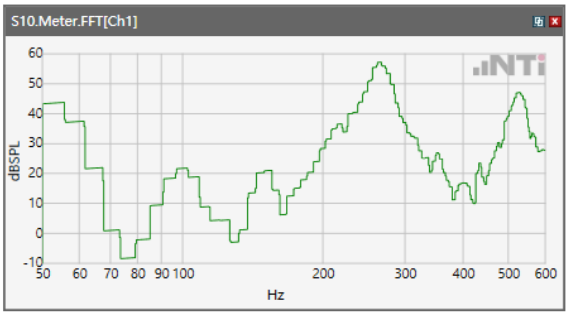
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



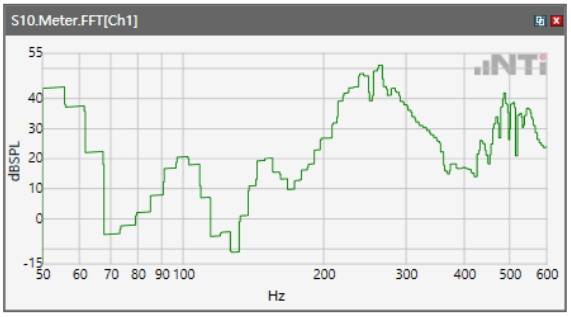
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

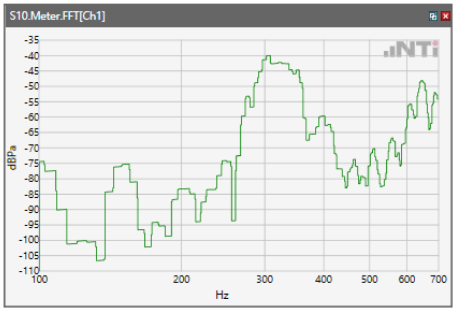


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

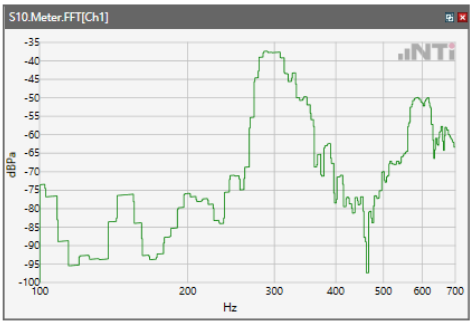


Receive path - distortion and noise 315Hz WB only

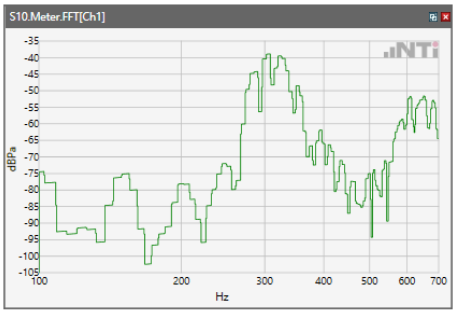
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



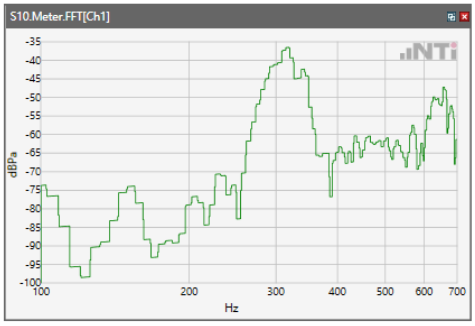
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



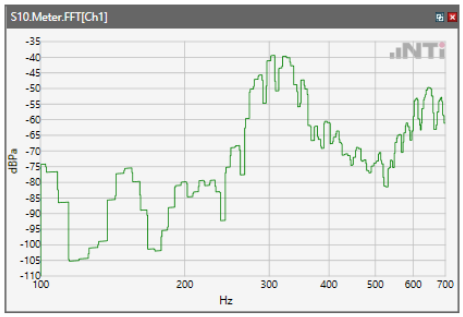
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



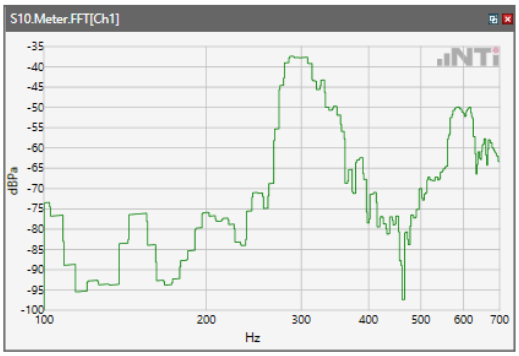
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



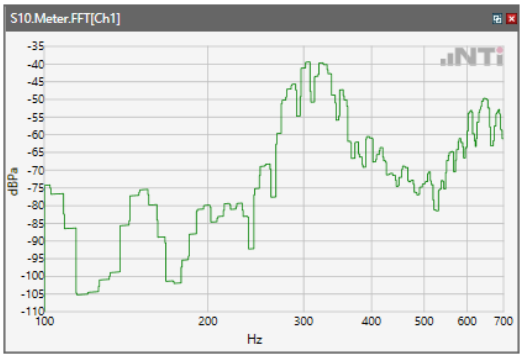
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



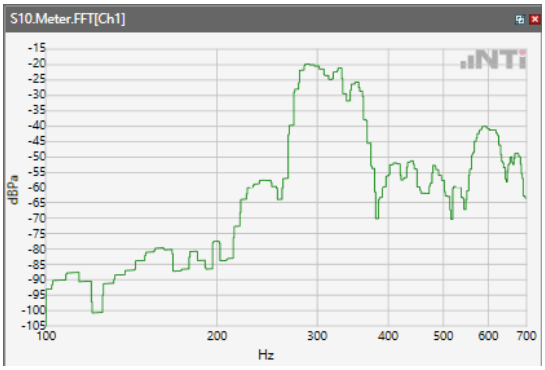
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



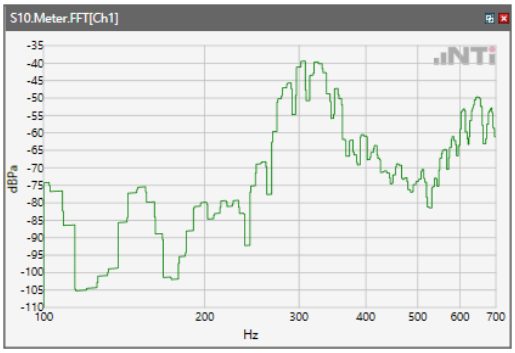
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



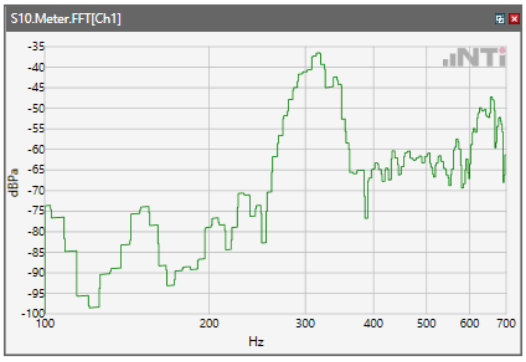
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



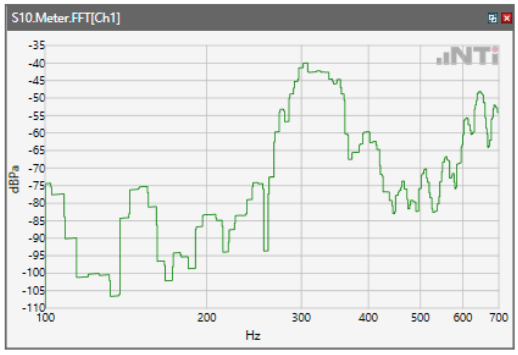
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



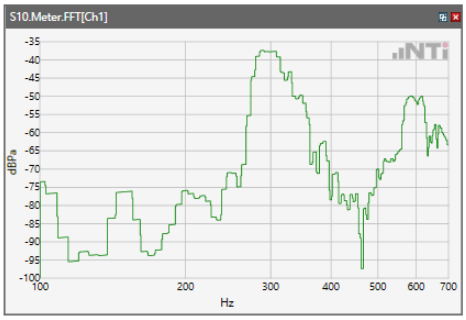
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

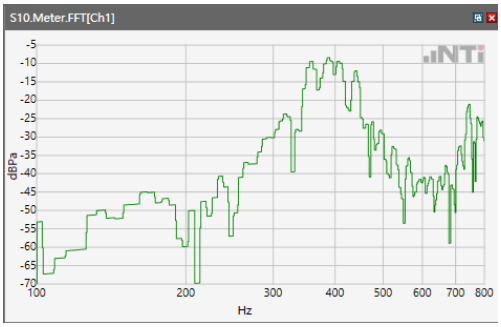


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

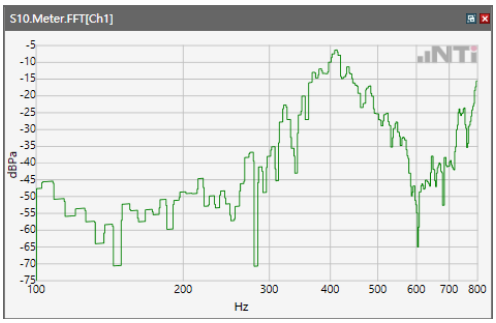


Receive path - distortion and noise 400Hz WB&NB

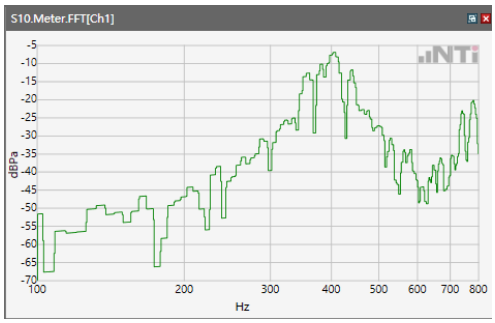
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



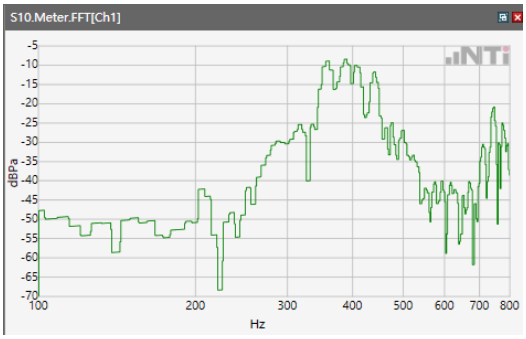
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



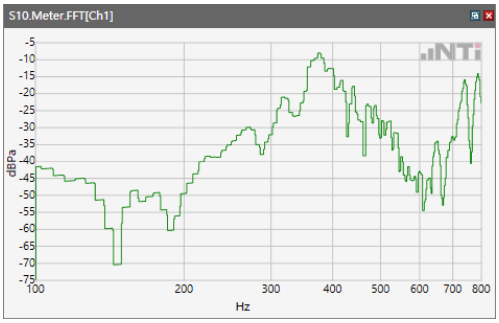
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



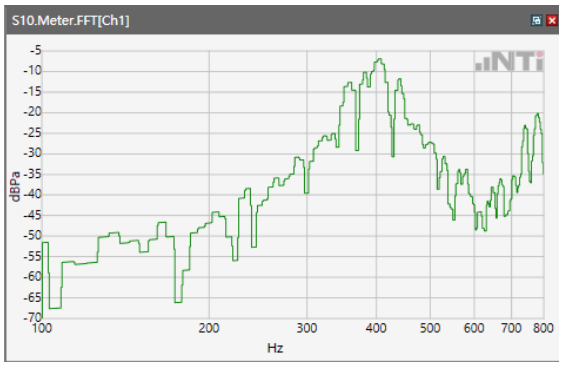
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



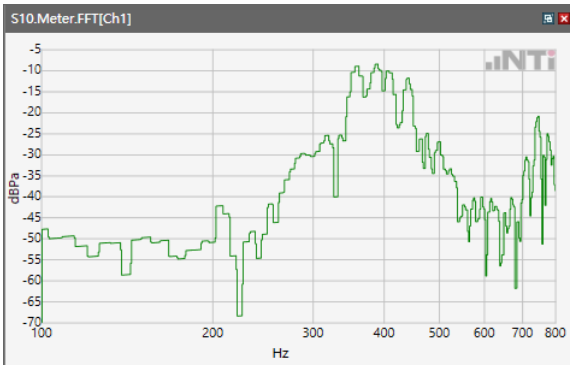
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



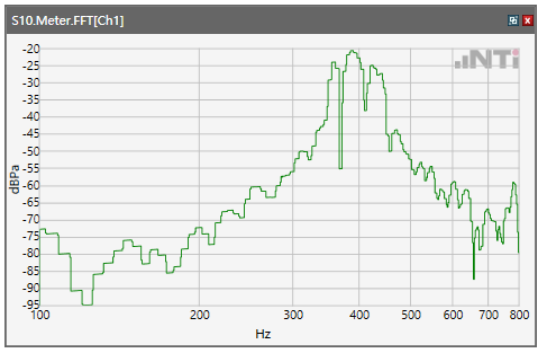
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



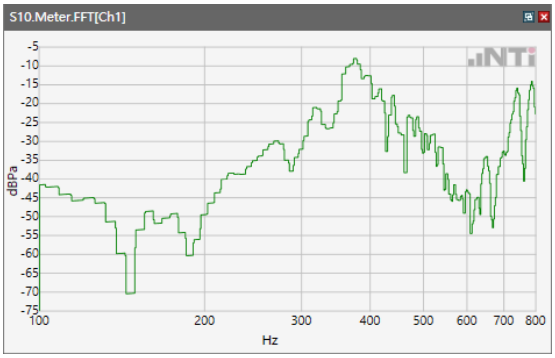
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



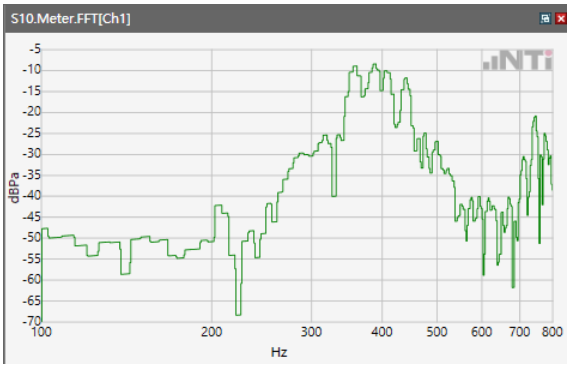
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



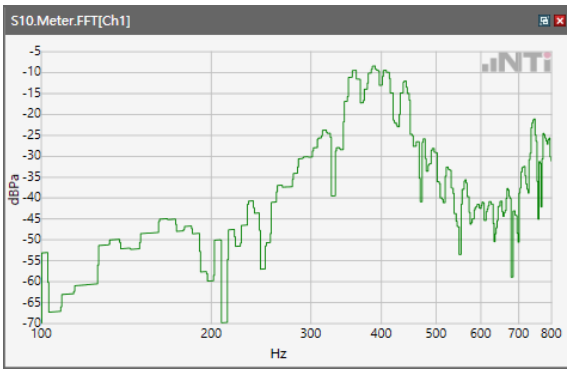
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



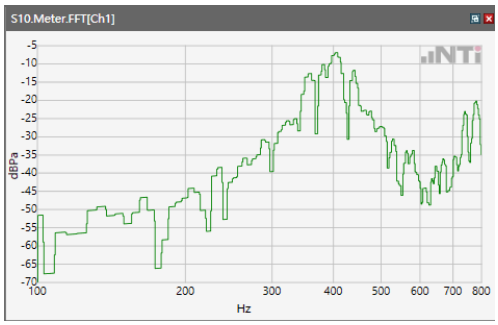
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

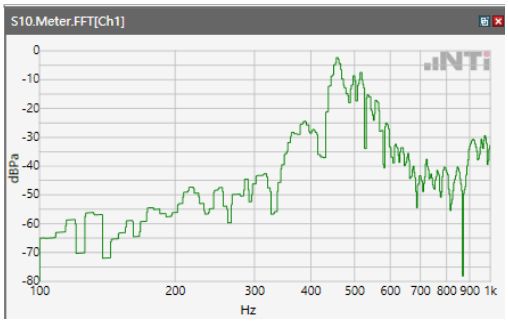


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

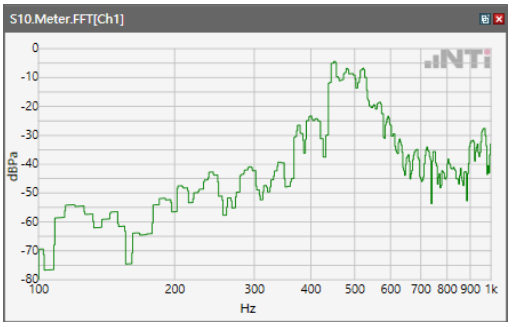


Receive path - distortion and noise 500Hz WB&NB

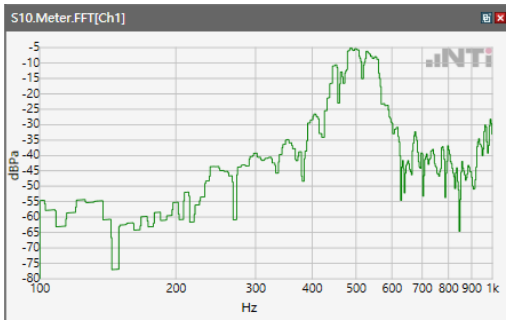
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



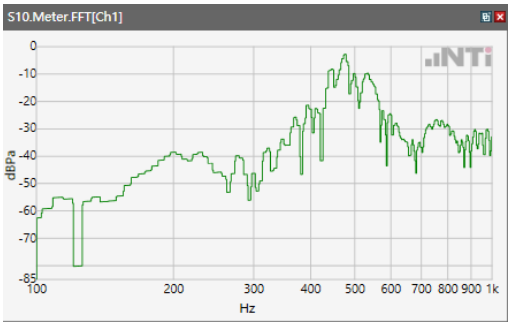
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



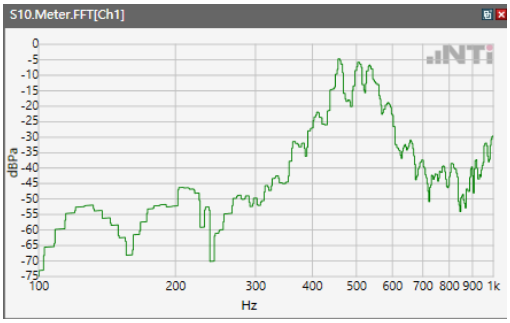
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



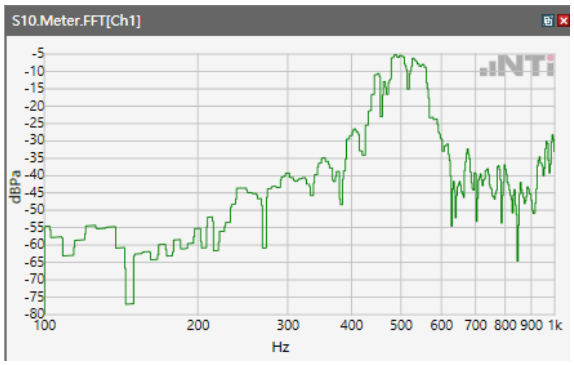
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



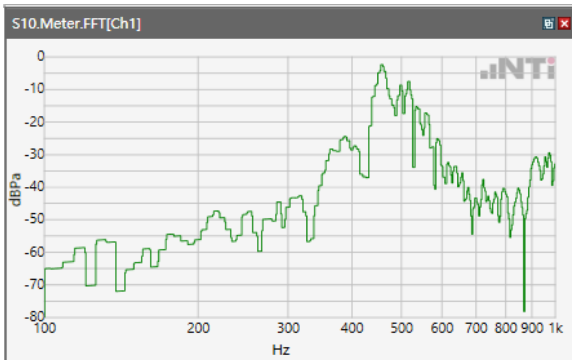
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



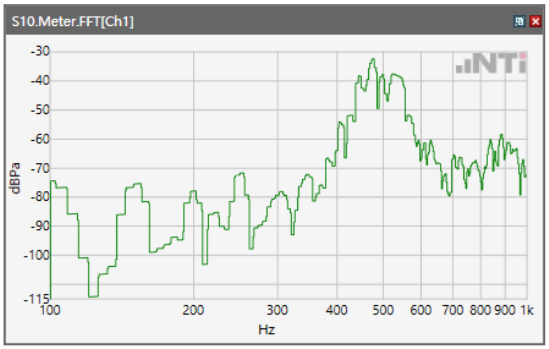
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



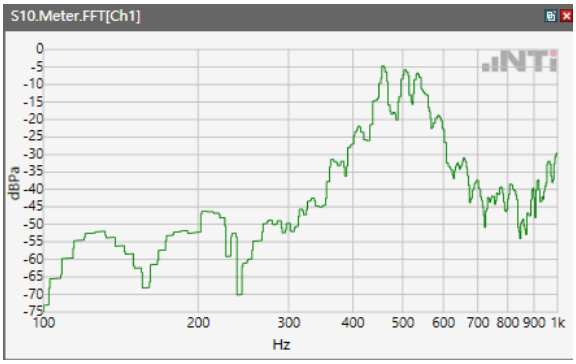
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



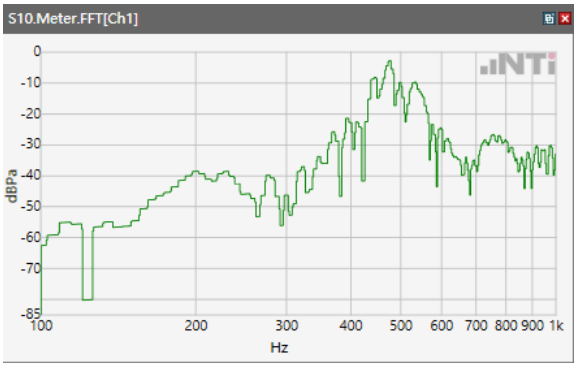
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



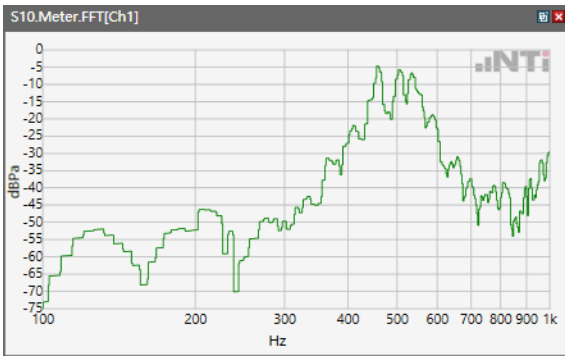
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



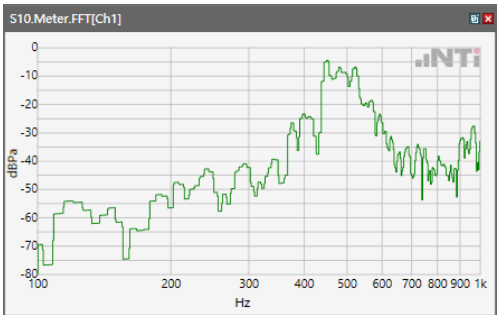
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

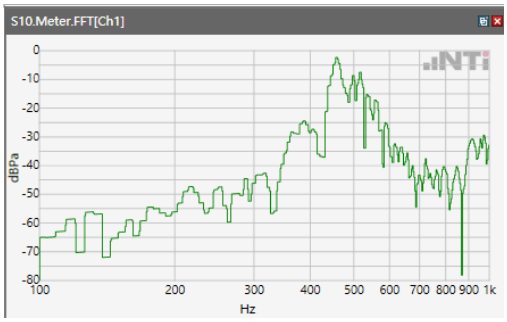


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

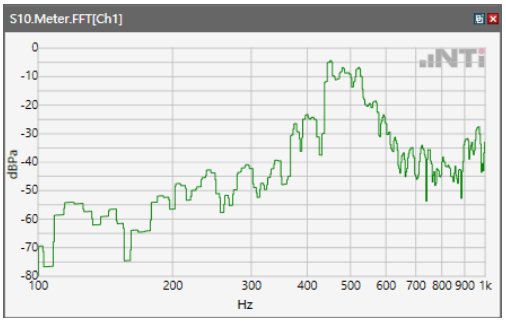


Receive path - distortion and noise 630Hz WB&NB

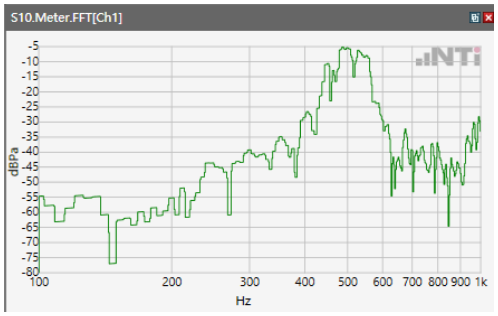
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



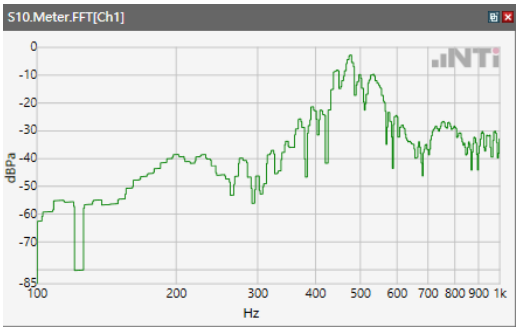
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



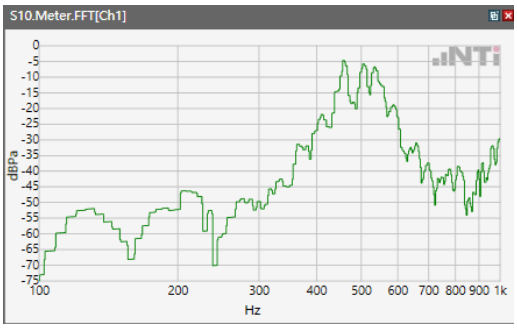
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



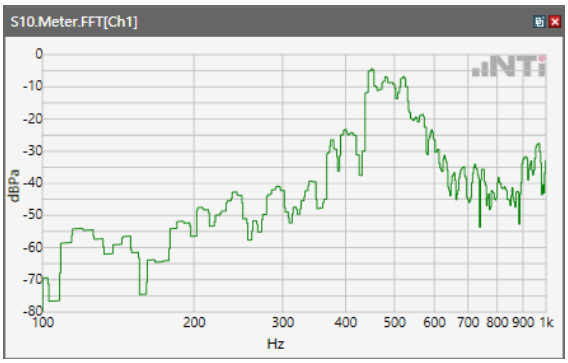
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



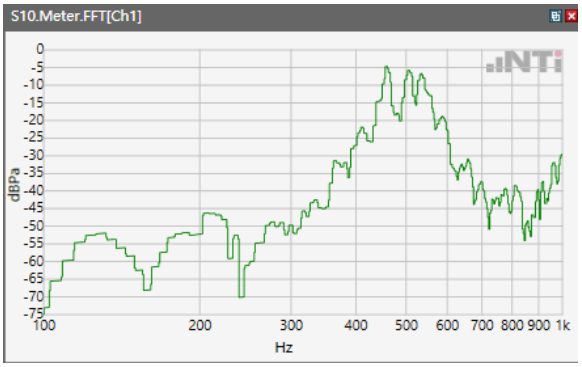
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



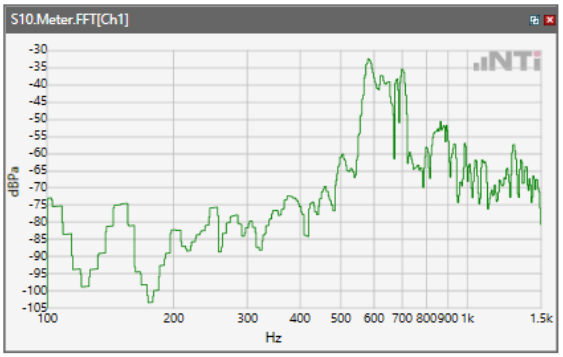
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



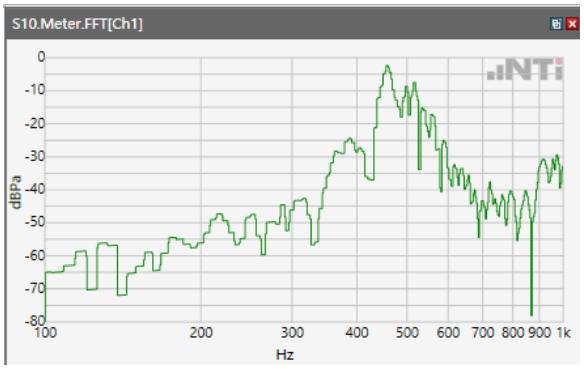
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



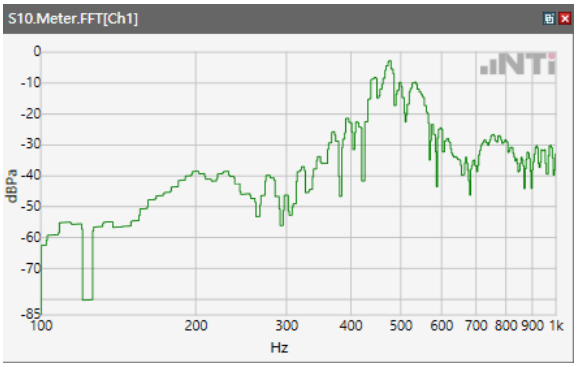
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



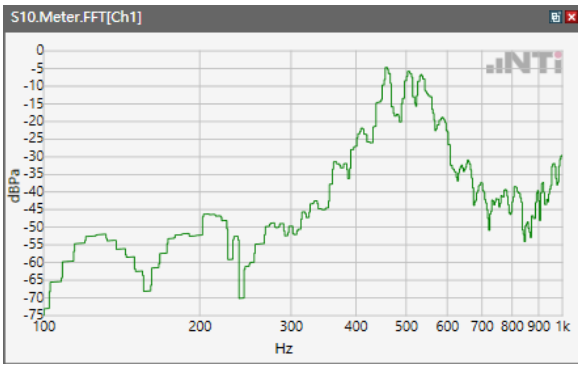
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



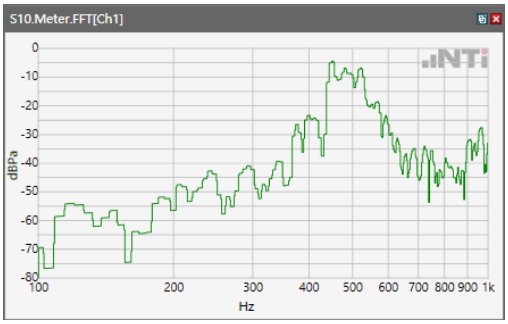
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

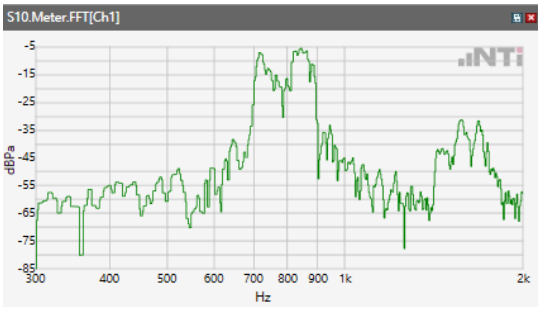


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

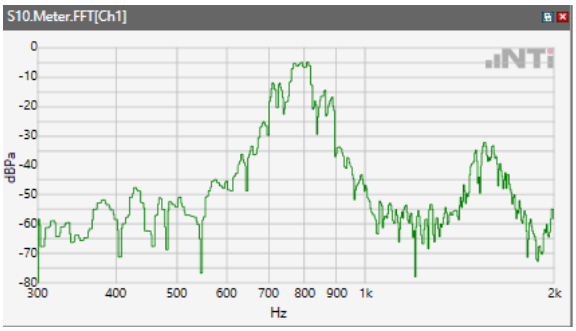


Receive path - distortion and noise 800Hz WB&NB

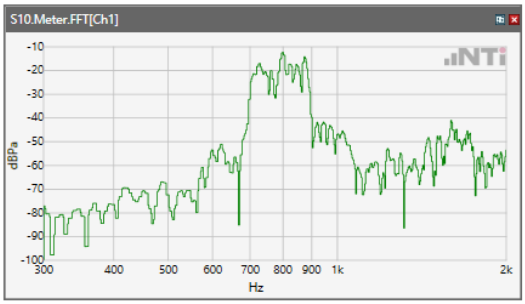
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



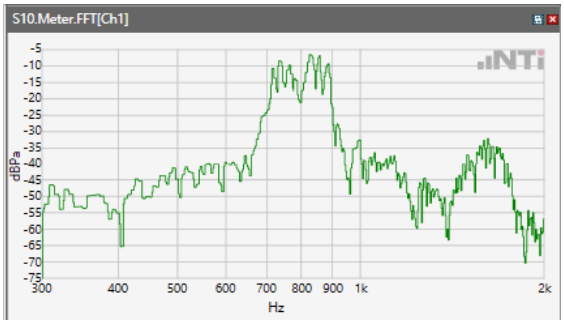
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



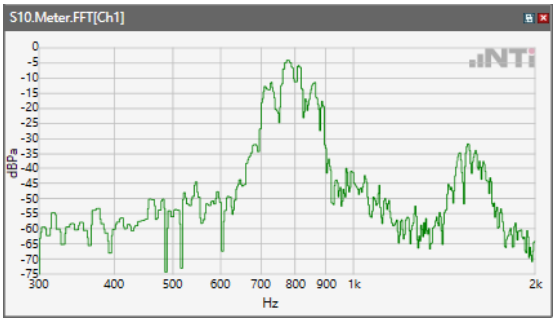
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



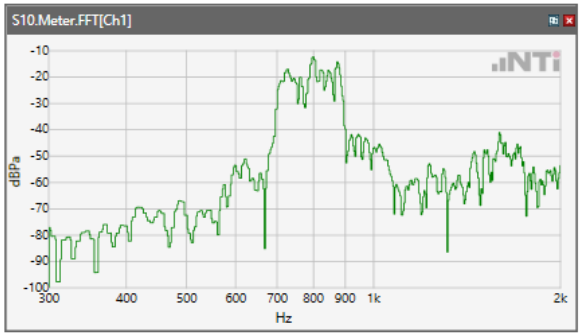
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



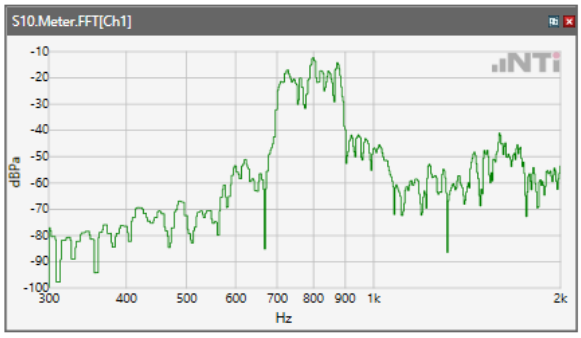
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



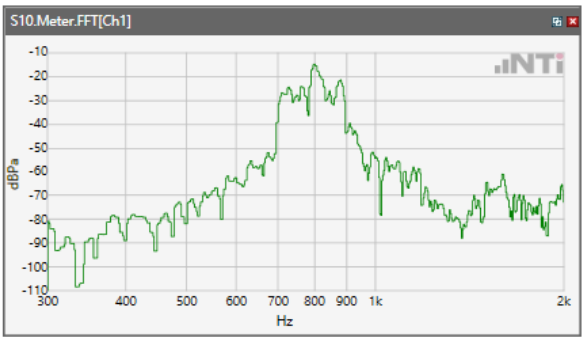
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



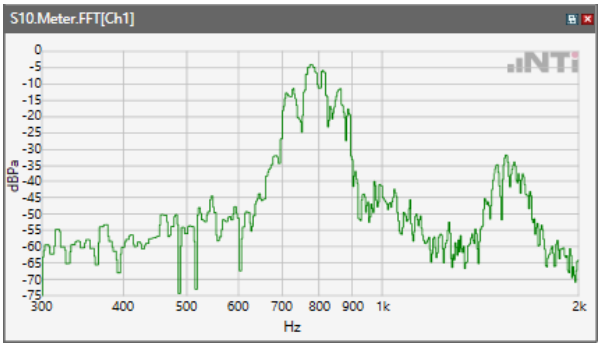
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



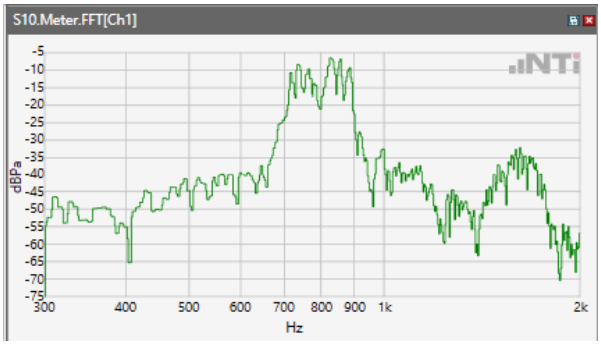
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



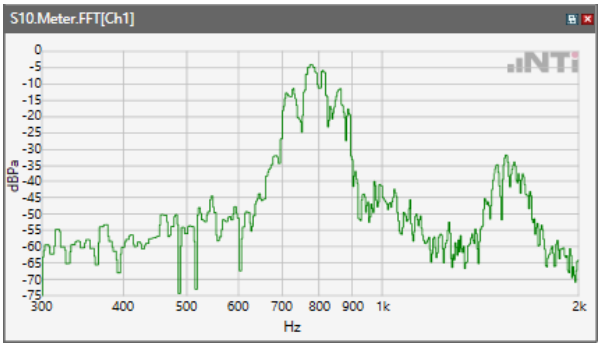
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



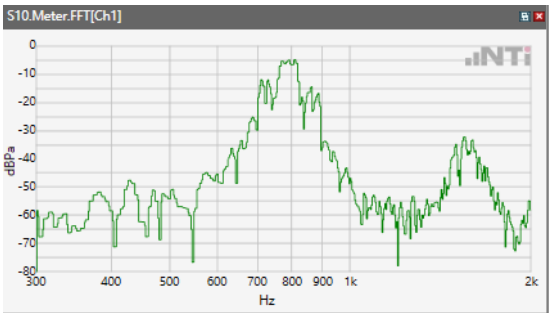
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

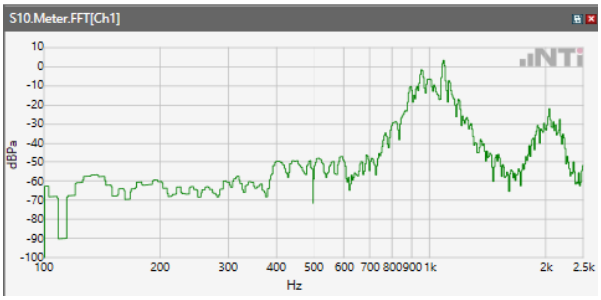


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

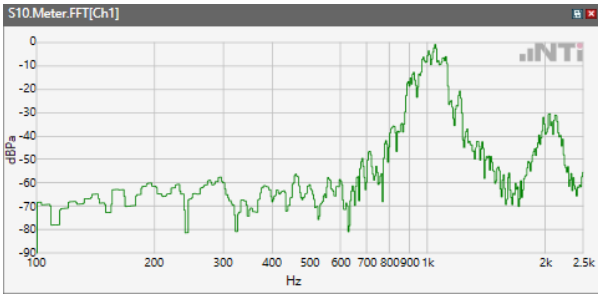


Receive path - distortion and noise 1000Hz WB&NB

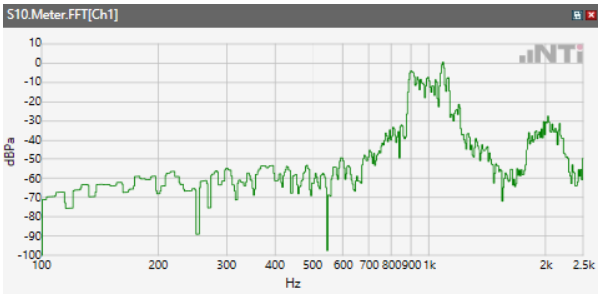
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



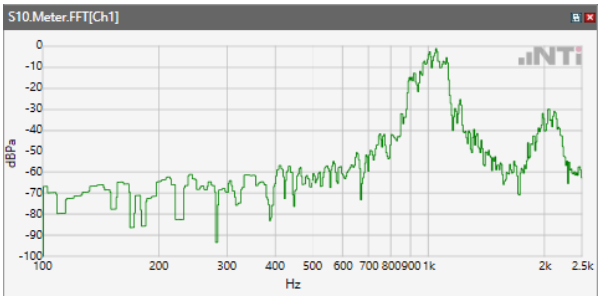
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



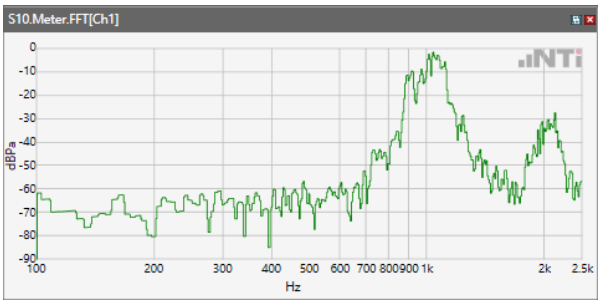
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



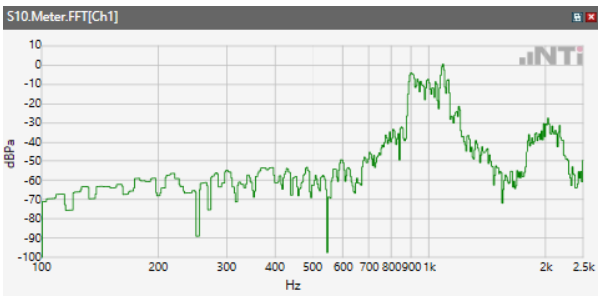
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



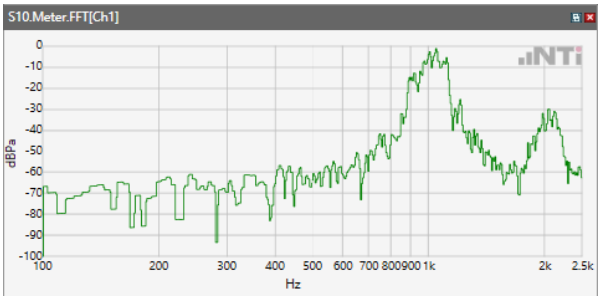
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



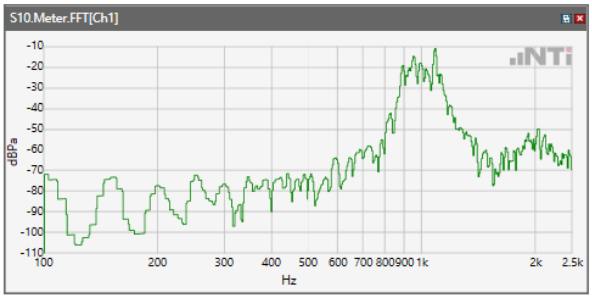
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



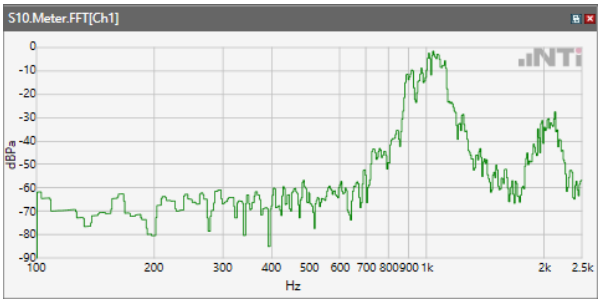
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



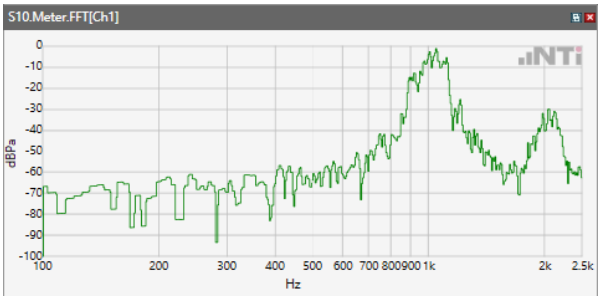
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



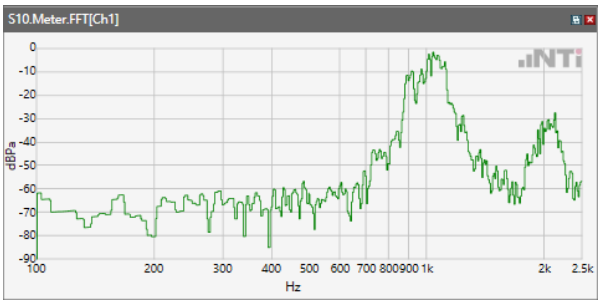
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



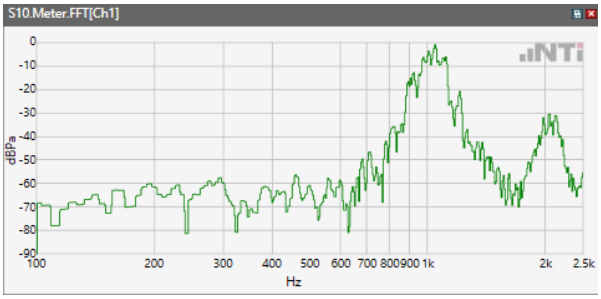
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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



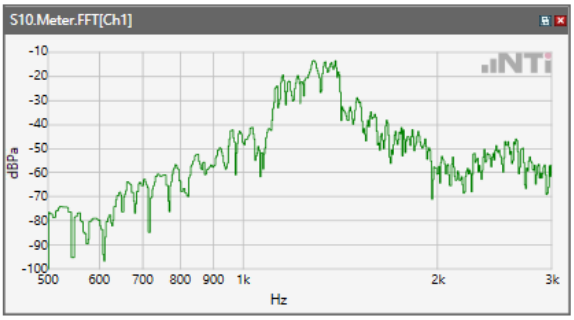
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



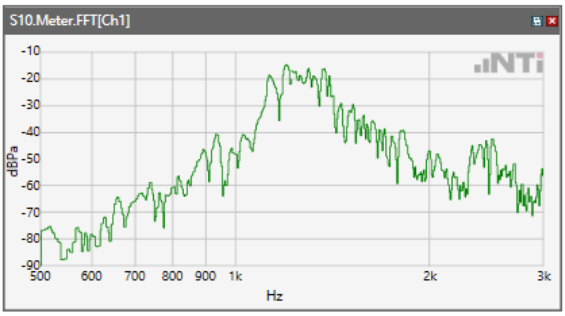
Receive path - distortion and noise 1250Hz WB&NB

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

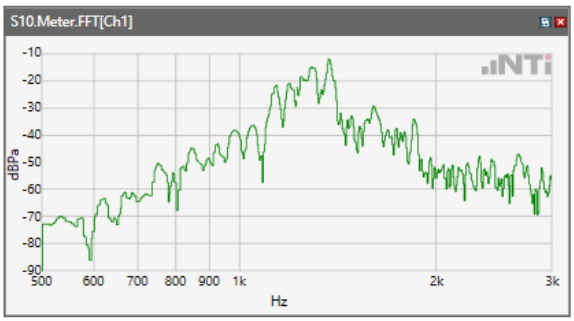
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



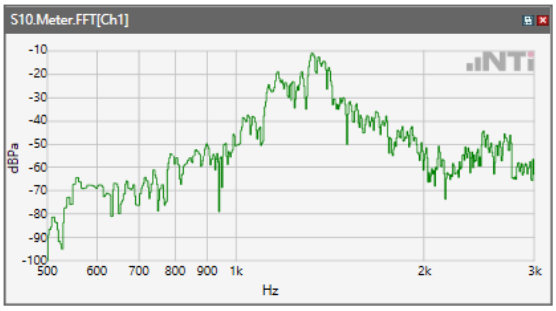
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



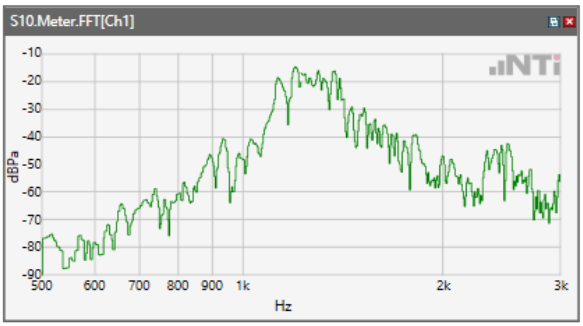
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



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

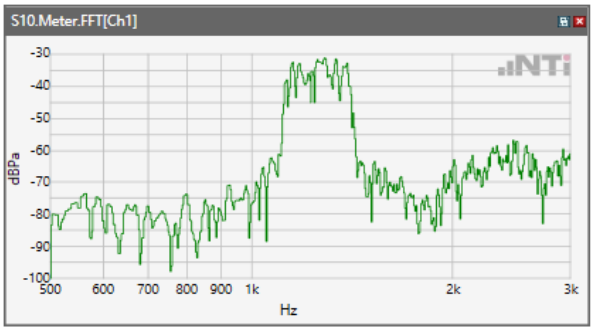


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2

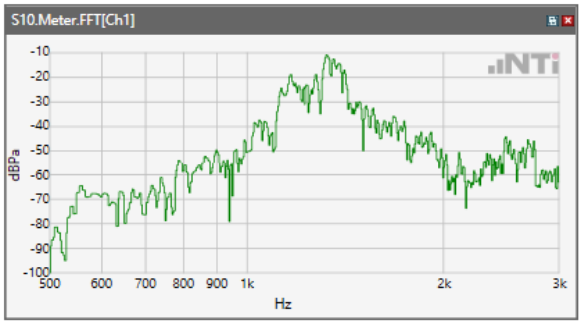


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5

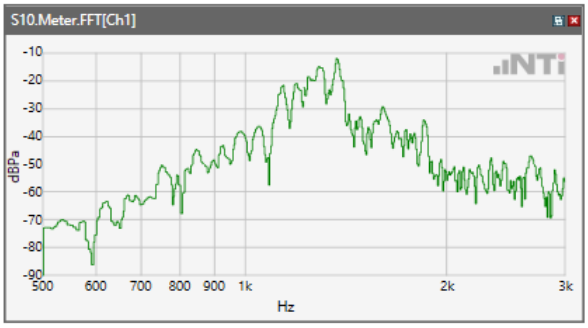
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



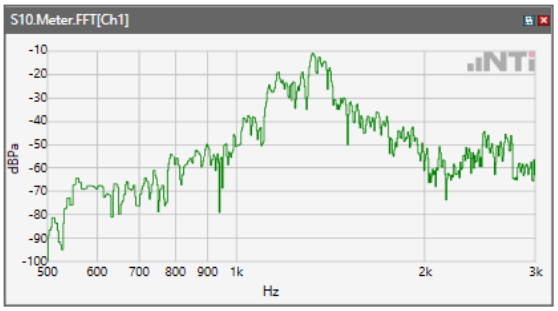
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



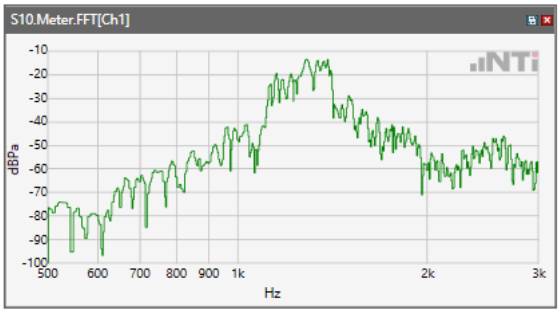
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

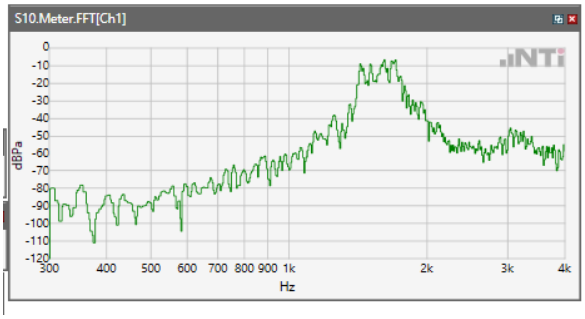


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

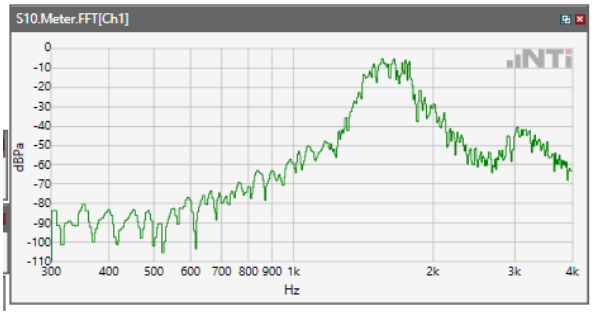


Receive path - distortion and noise 1600Hz WB&NB

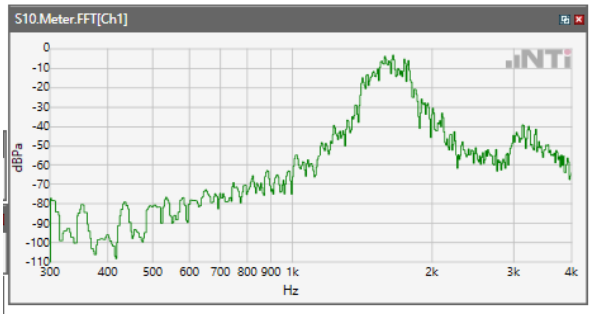
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



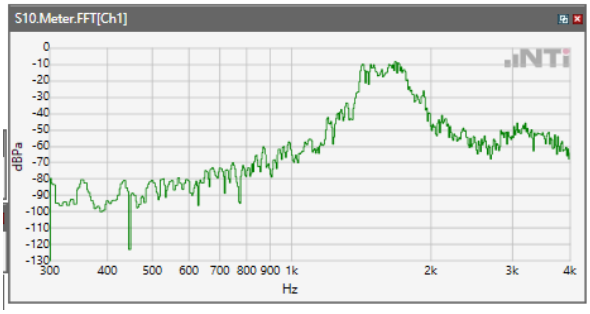
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



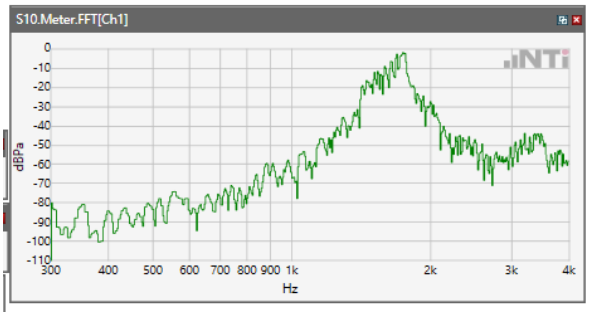
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



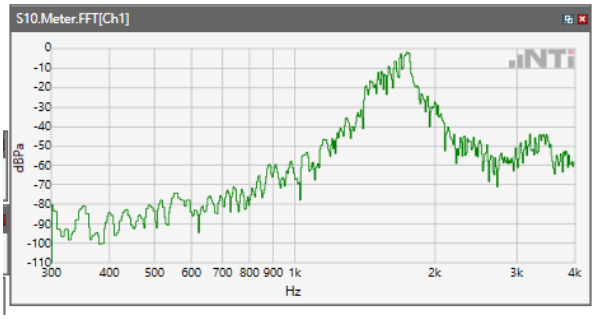
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



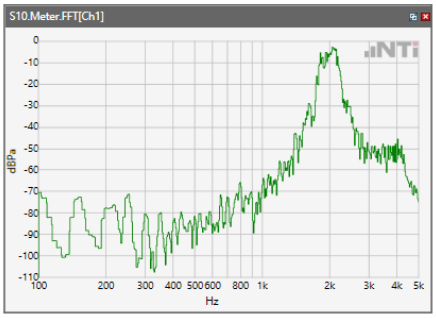
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



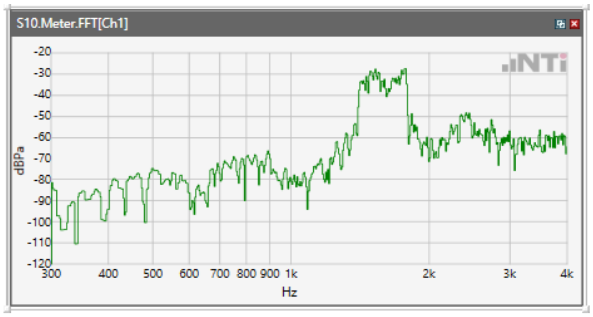
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



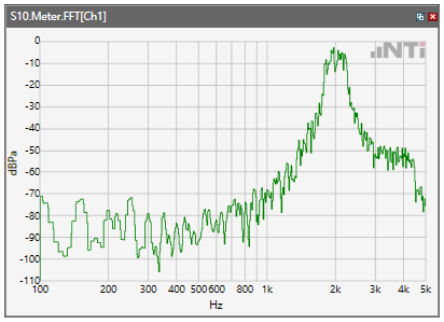
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



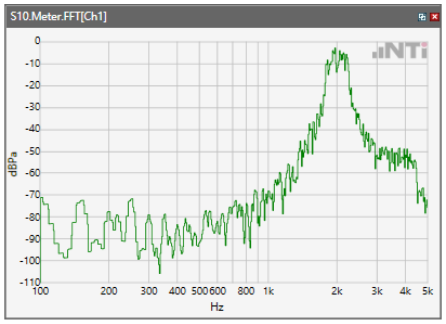
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



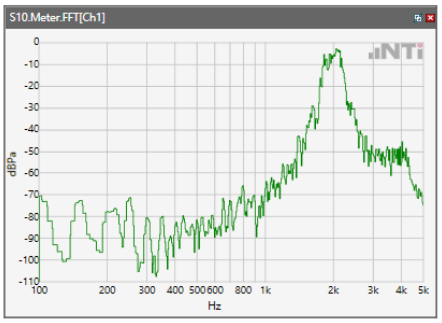
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



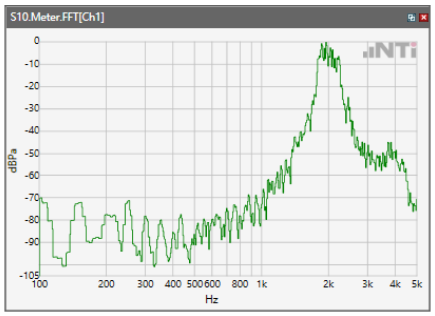
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

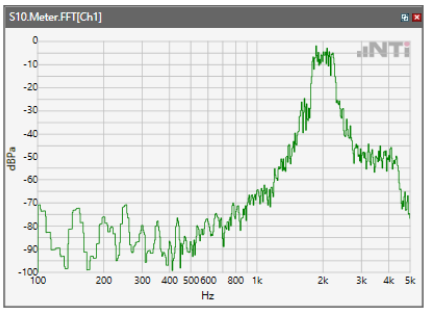


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

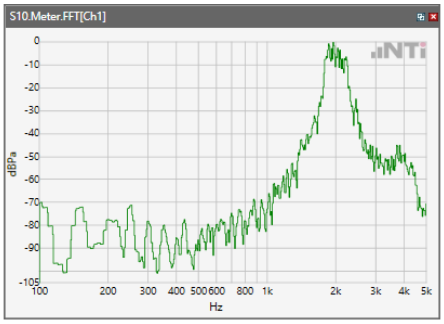


Receive path - distortion and noise 2000Hz WB&NB

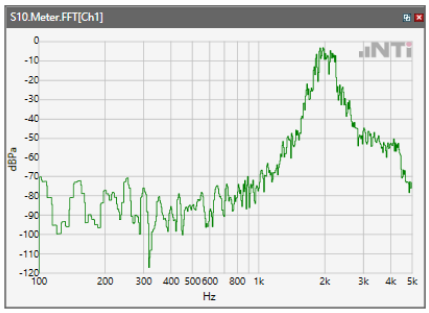
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



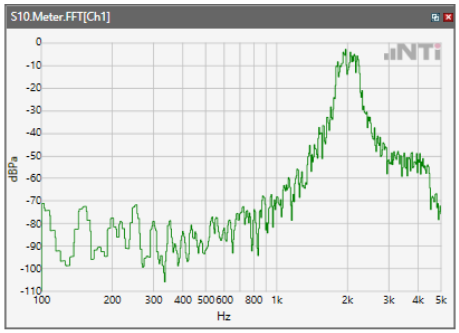
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



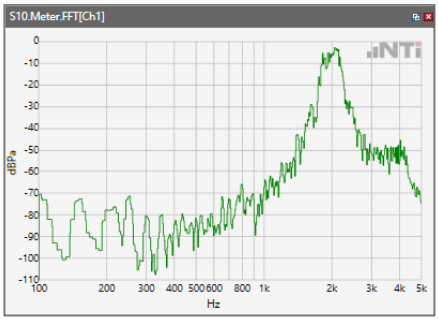
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



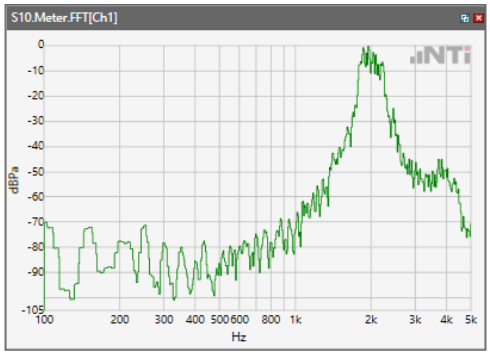
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



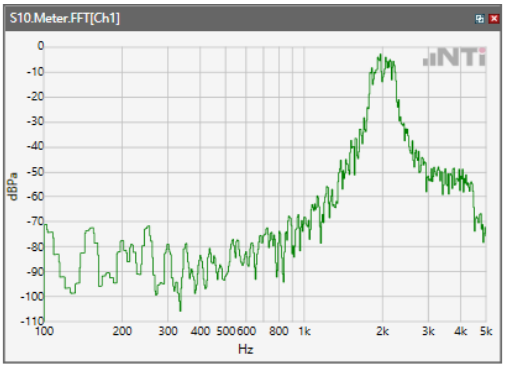
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



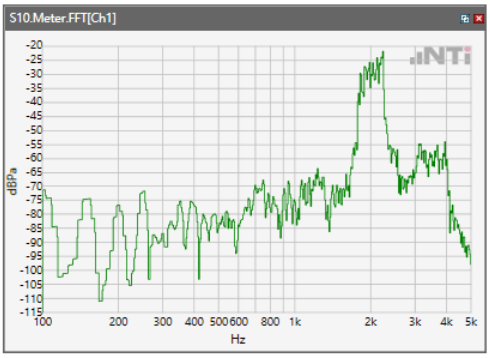
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



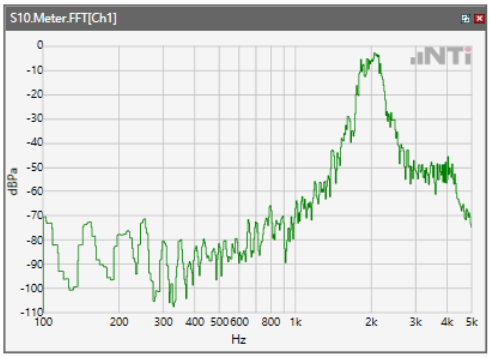
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



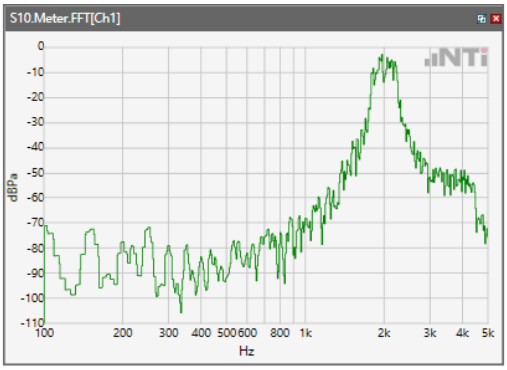
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



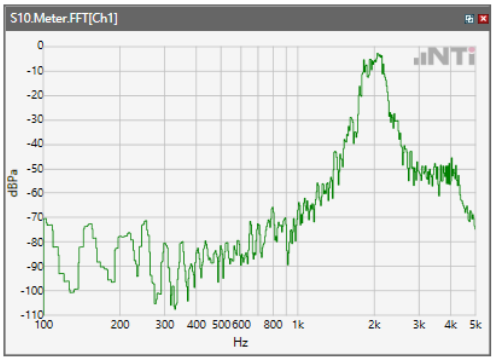
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



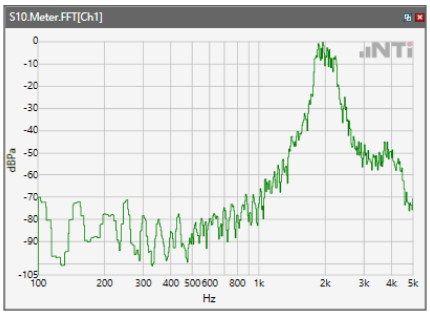
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

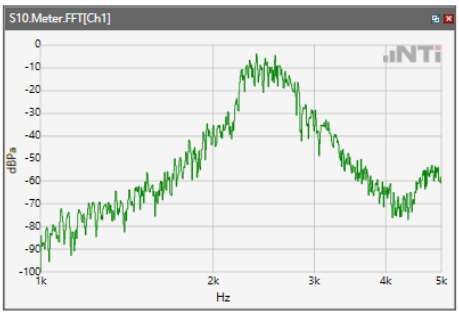


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

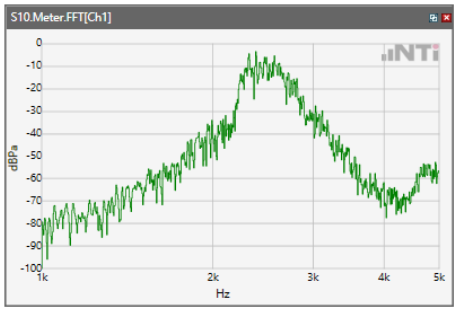


Receive path - distortion and noise 2500Hz WB&NB

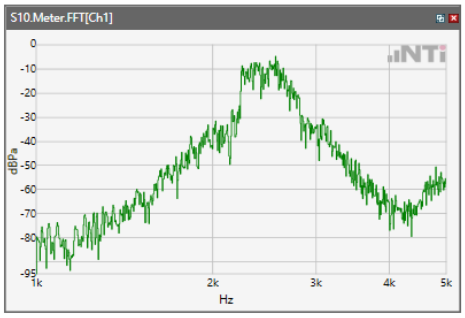
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



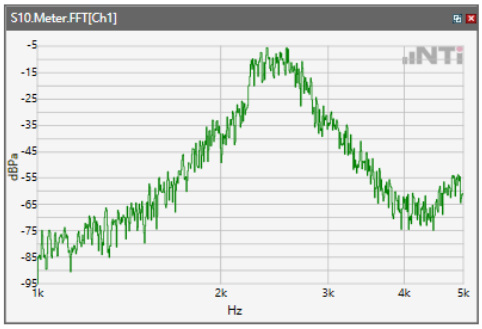
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



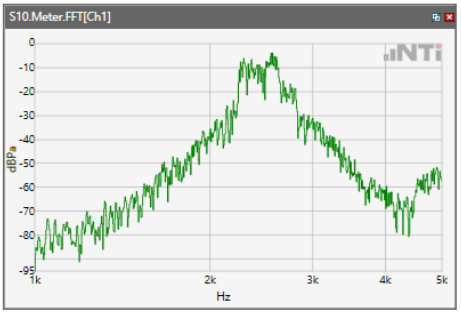
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



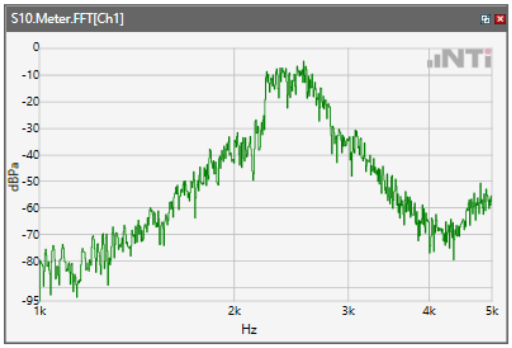
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



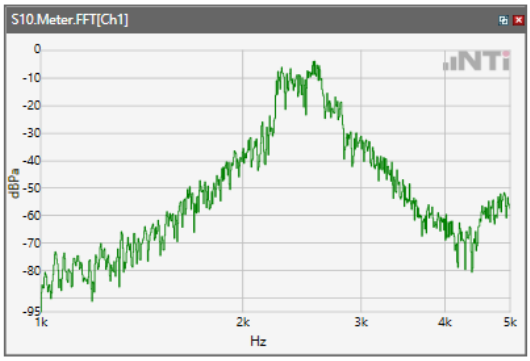
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



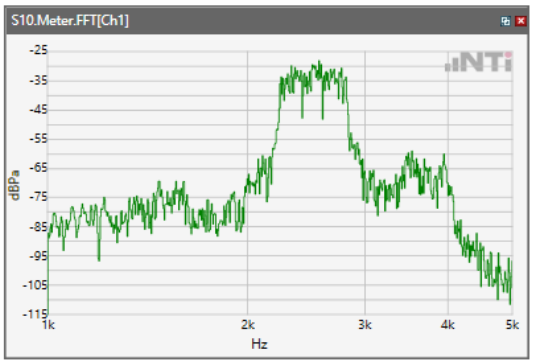
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



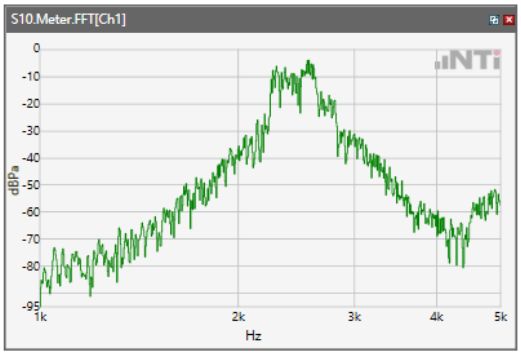
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



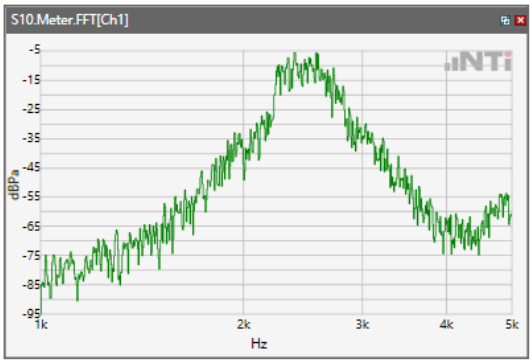
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



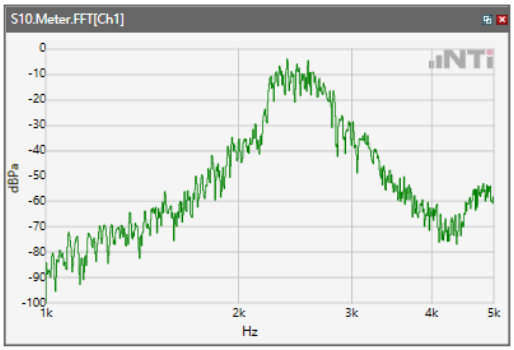
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



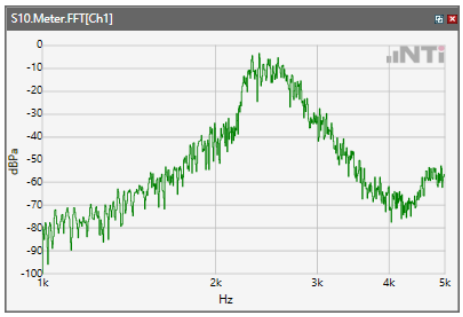
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

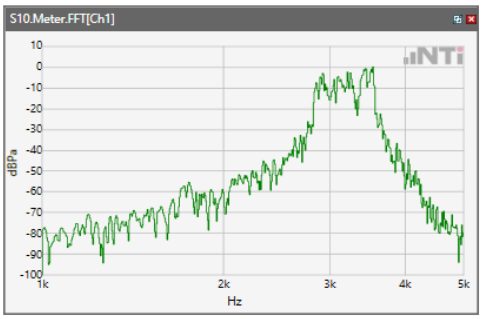


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

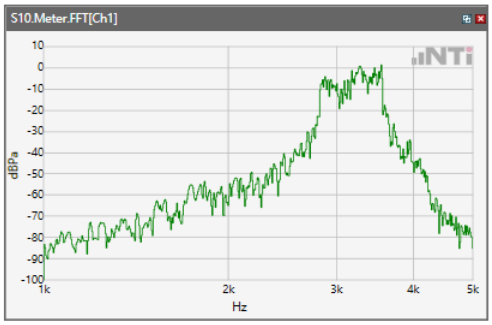


Receive path - distortion and noise 3150Hz WB&NB

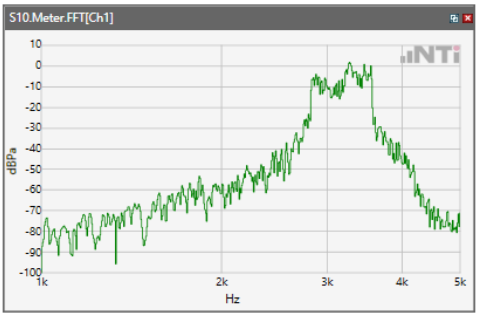
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



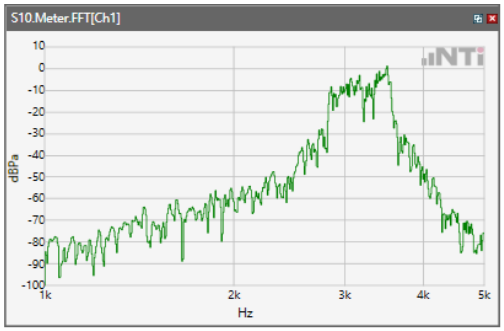
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



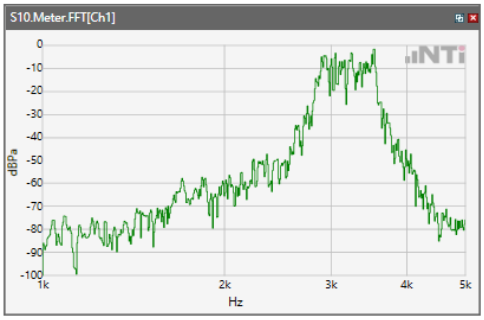
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



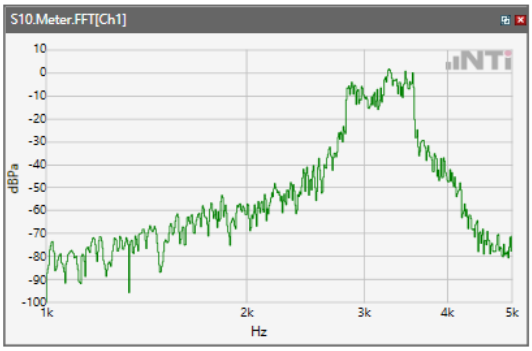
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



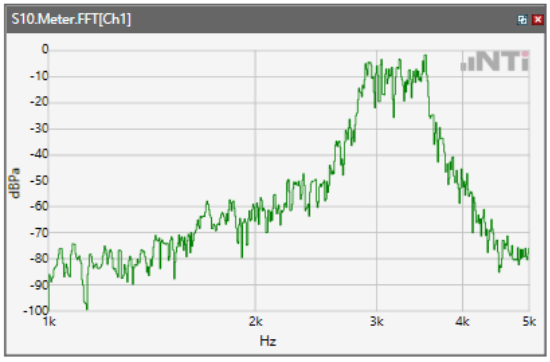
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



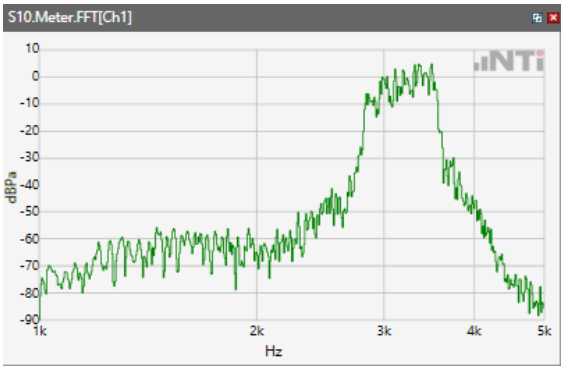
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



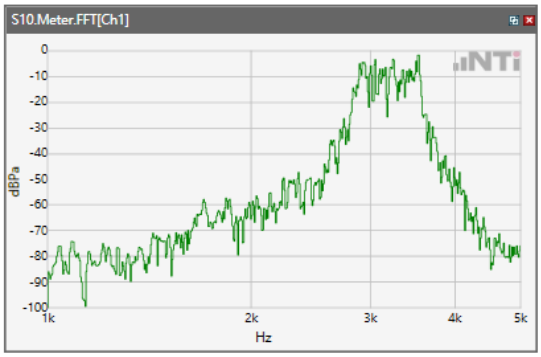
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



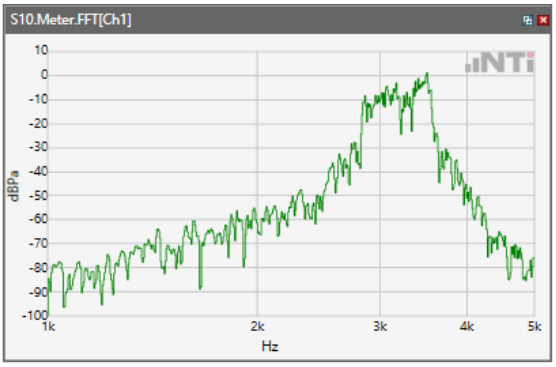
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



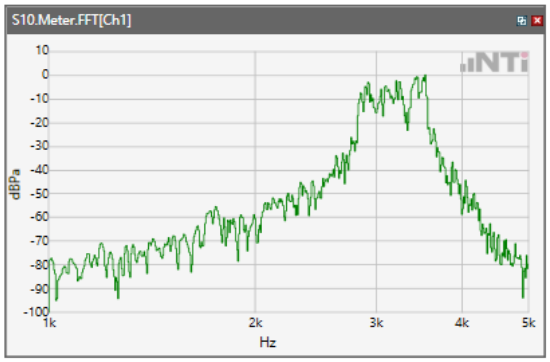
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



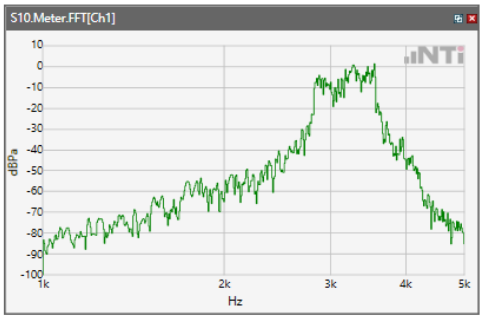
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

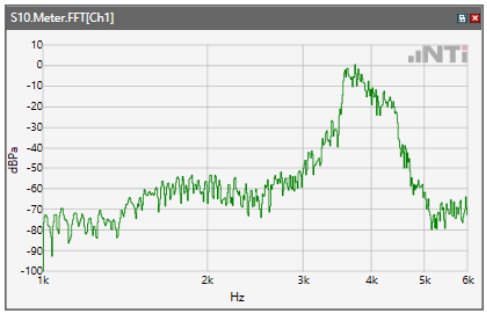


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

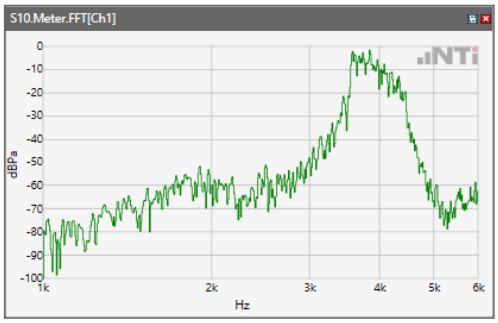


Receive path - distortion and noise 4000Hz WB only

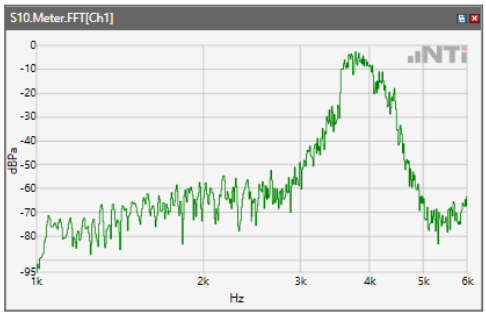
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



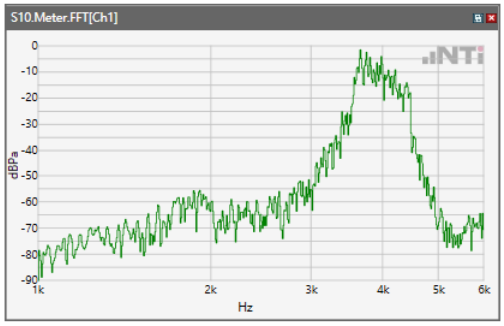
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



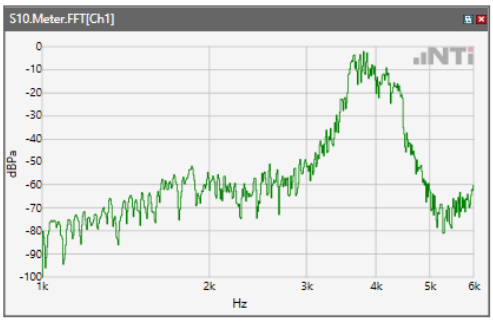
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



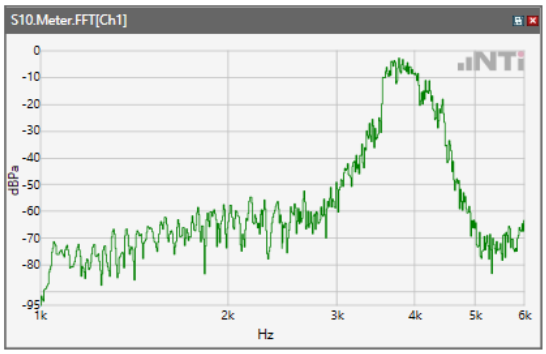
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



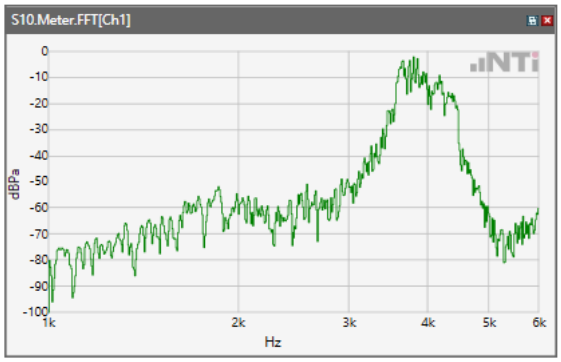
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



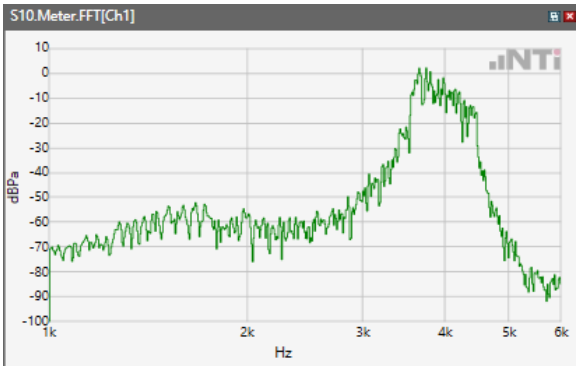
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



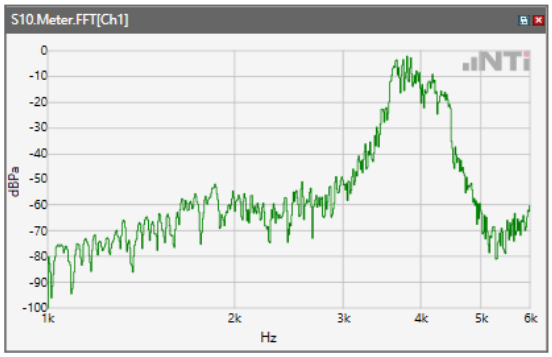
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



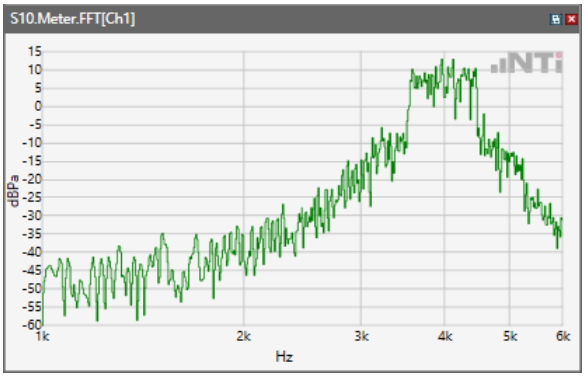
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



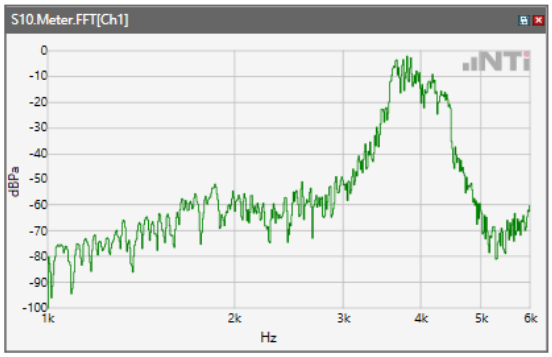
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



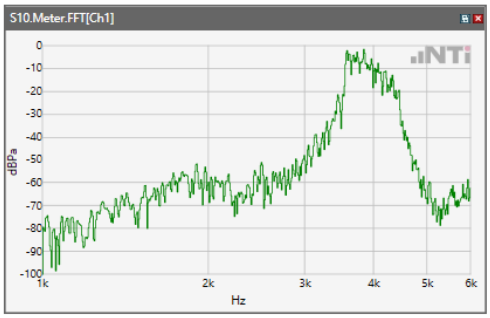
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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

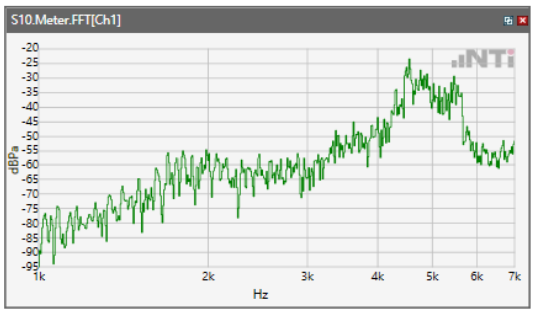


ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz

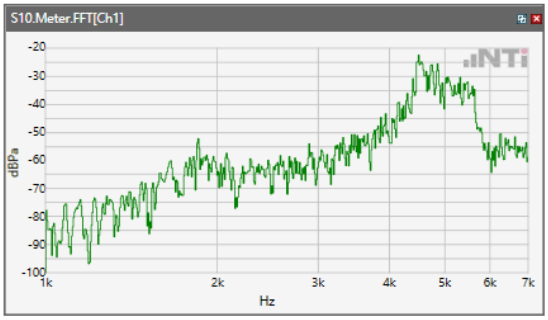


Receive path - distortion and noise 5000Hz WB only

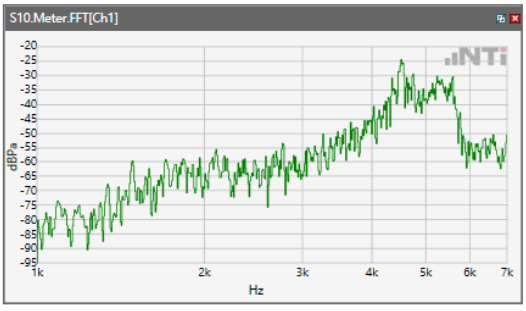
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 850



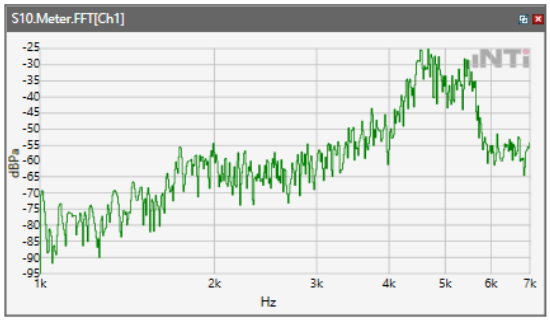
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\GSM 1900



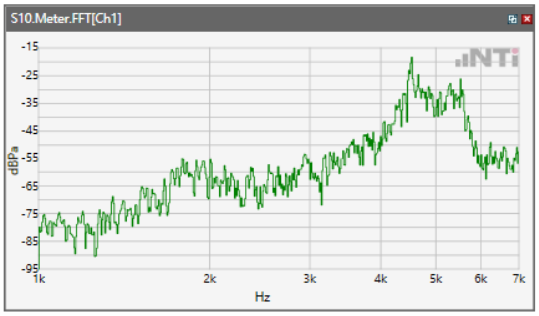
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\WCDM Band II



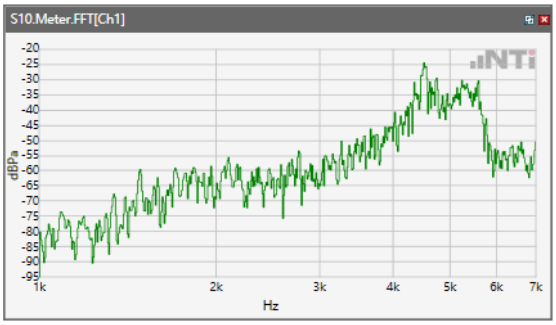
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band IV



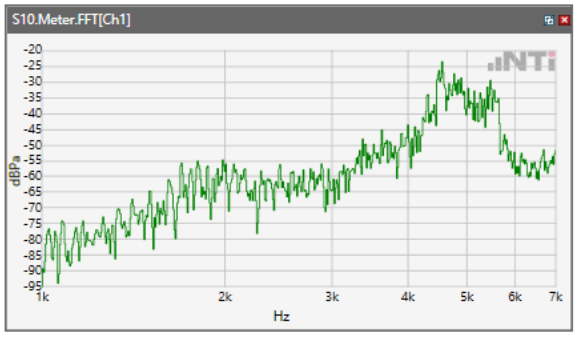
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ WCDM Band V



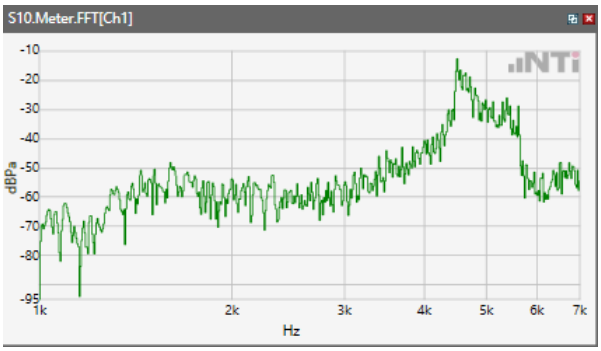
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



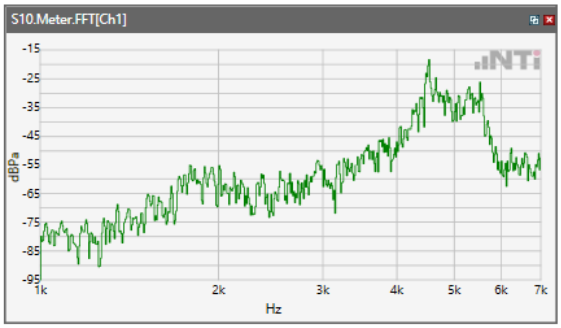
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



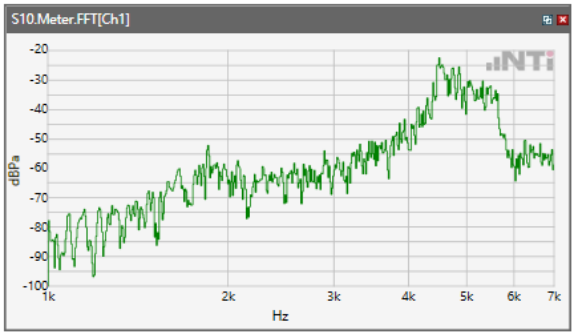
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



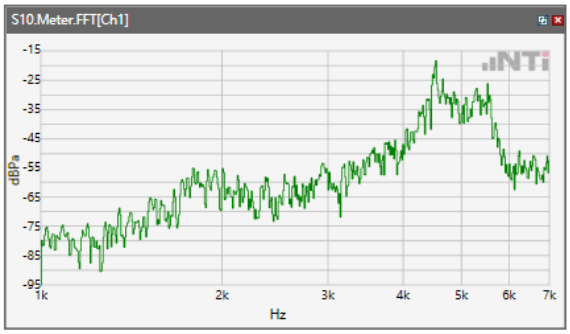
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



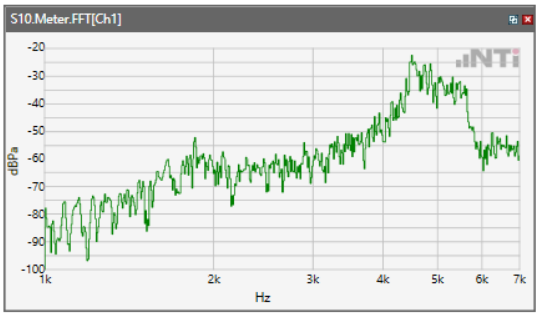
ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps\ 5.2 Receive path – distortion and noise\ LTE Band 66



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



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

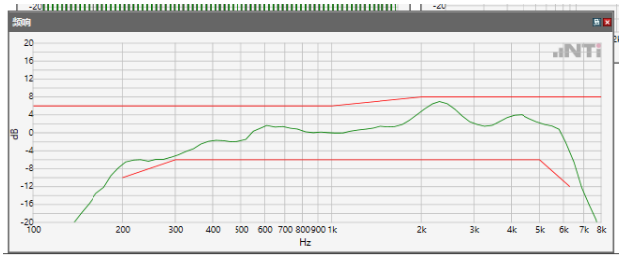


5.2 Receive path – distortion and noise

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 23.85kbps \GSM 850



Absolute minimal distance

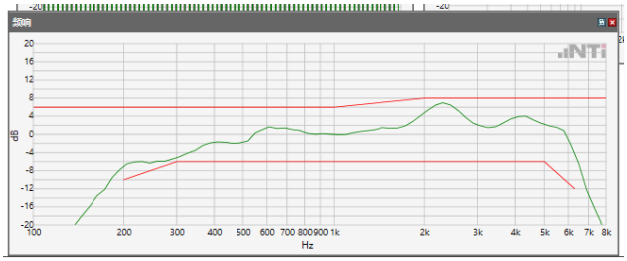
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

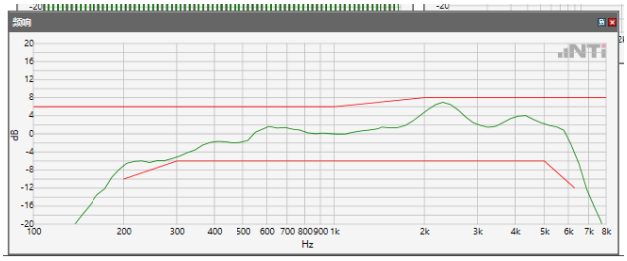
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

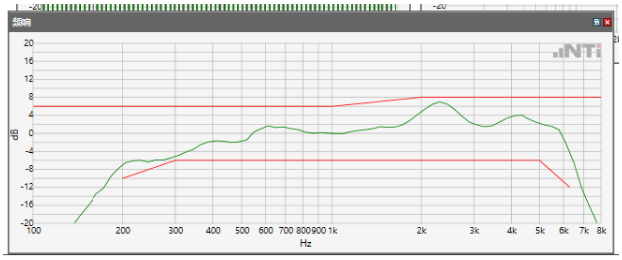
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

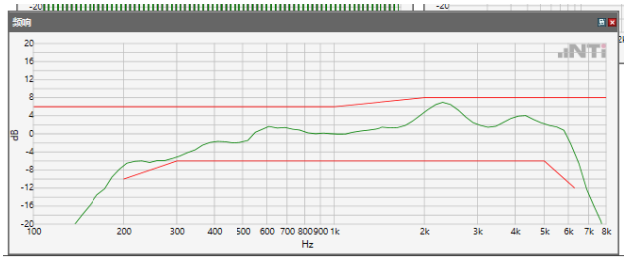
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

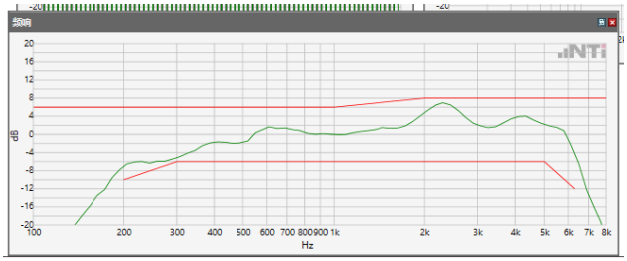
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

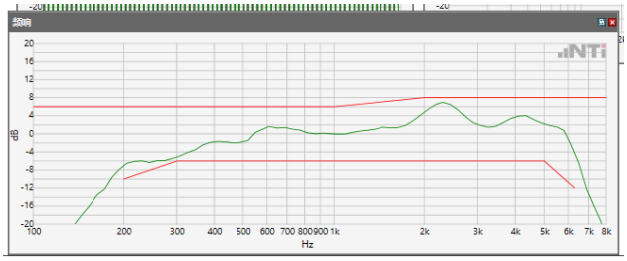
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps \ LTE Band 5



Absolute minimal distance

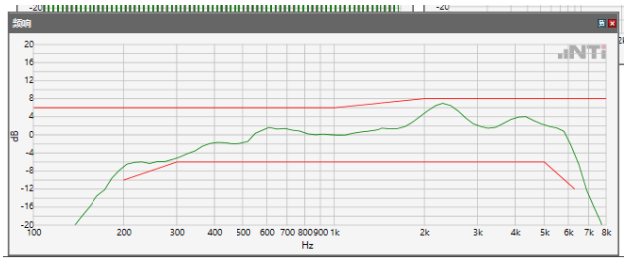
OK

OK

Limits

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 2N HAC ON \ WB 23.85kbps \ LTE Band 7



Absolute minimal distance

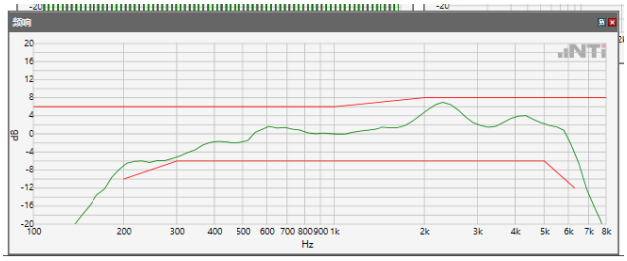
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

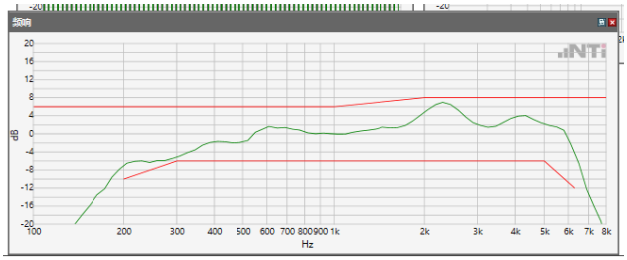
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

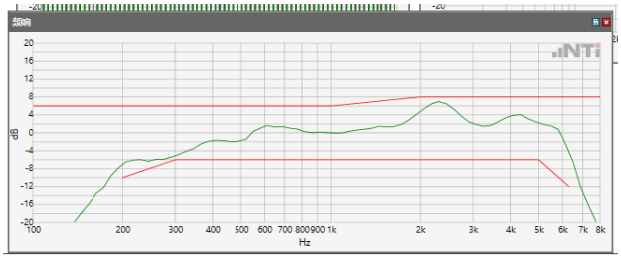
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



Absolute minimal distance

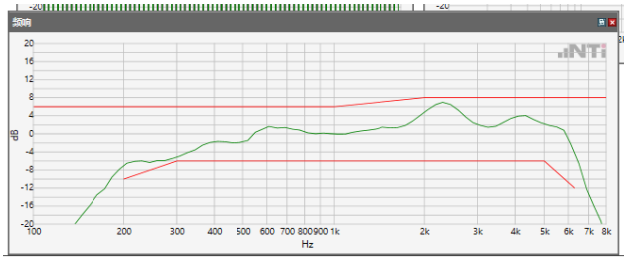
OK

OK

Limits

	lower
Run 1	Fit into tolerance

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



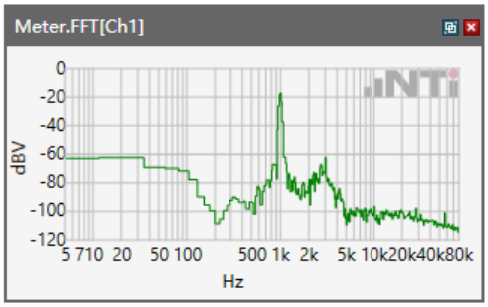
Absolute minimal distance

OK

OK

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

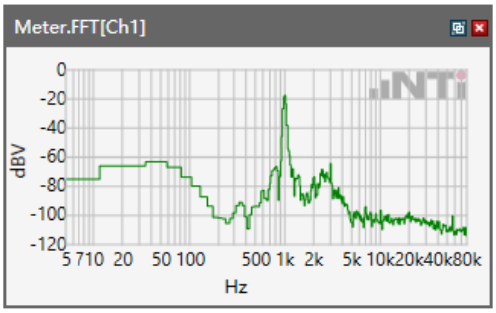
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\LTE Band 2



Speech Level RCV: 85.68 dB[SPL]

Calculated Value: 15.68 dB Ok

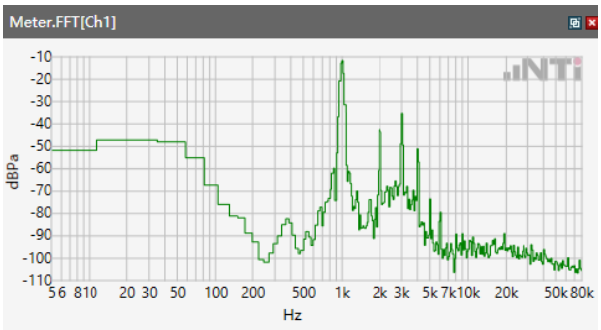
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\ LTE Band 5



Speech Level RCV: 85.97 dB[SPL]

Calculated Value: 15.97 dB Ok

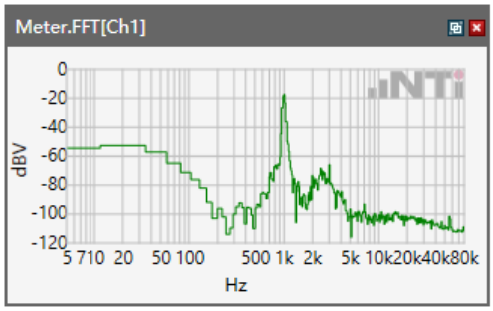
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\LTE Band 7



Speech Level RCV: 84.49 dB[SPL]

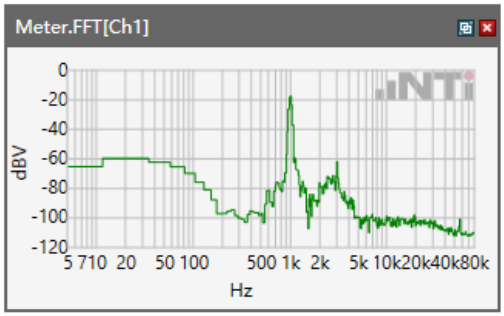
Calculated Value: 14.49 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\LTE Band 12



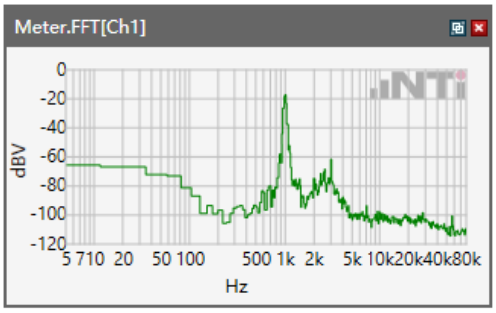
Speech Level RCV: 86.61 dB[SPL]
Calculated Value: 16.61 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\ LTE Band 66



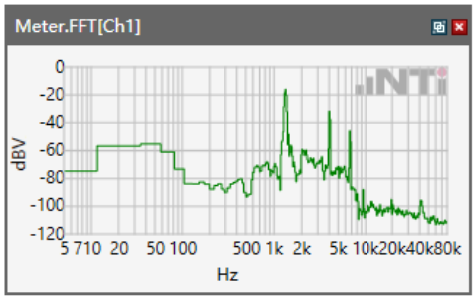
Speech Level RCV: 86.48 dB[SPL]
Calculated Value: 16.48 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\LTE Band 71



Speech Level RCV: 86.11 dB[SPL]
Calculated Value: 16.11 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS NB 24.4 kbps\WLAN 2.4GHz

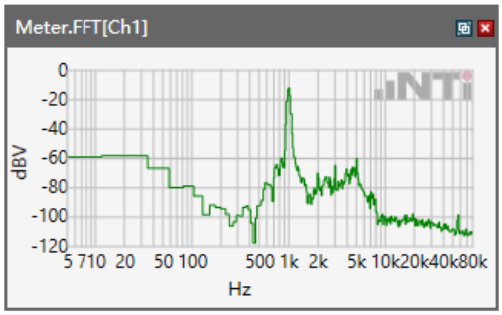


Speech Level RCV: 87.48 dB[SPL]

Calculated Value: 17.48 dB Ok

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

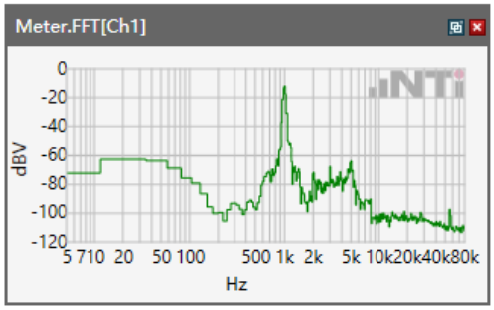
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\LTE Band 2



Speech Level RCV: 84.21 dB[SPL]

Calculated Value: 14.21 dB Ok

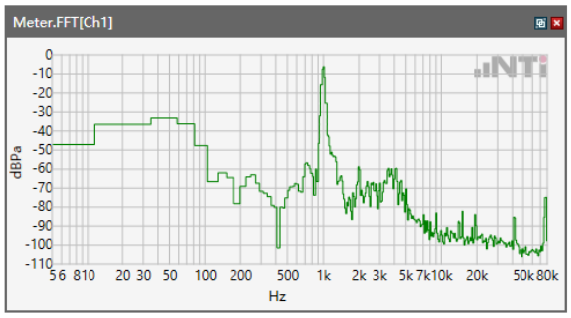
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\ LTE Band 5



Speech Level RCV: 83.9 dB[SPL]

Calculated Value: 13.9 dB Ok

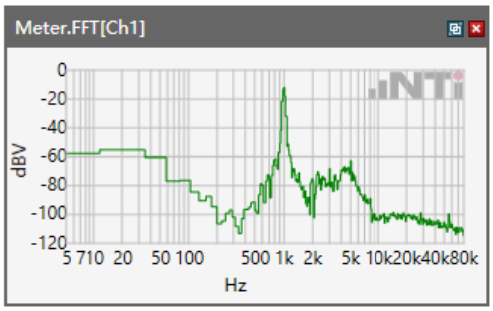
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\LTE Band 7



Speech Level RCV: 83.94 dB[SPL]

Calculated Value: 13.94 dB Ok

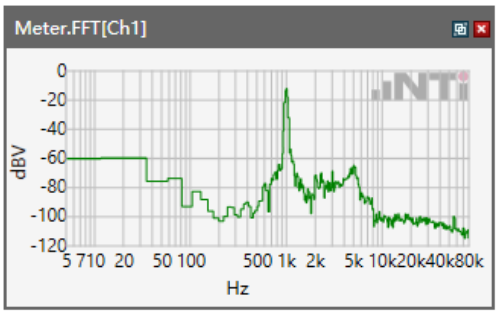
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\LTE Band 12



Speech Level RCV: 85.16 dB[SPL]

Calculated Value: 15.16 dB Ok

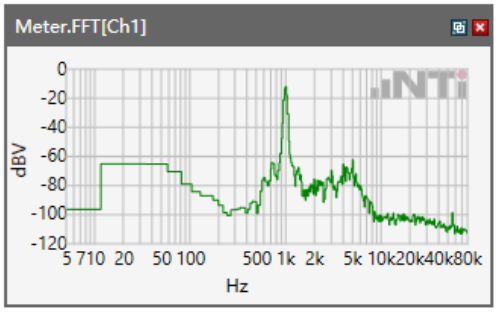
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\ LTE Band 66



Speech Level RCV: 85.57 dB[SPL]

Calculated Value: 15.57 dB Ok

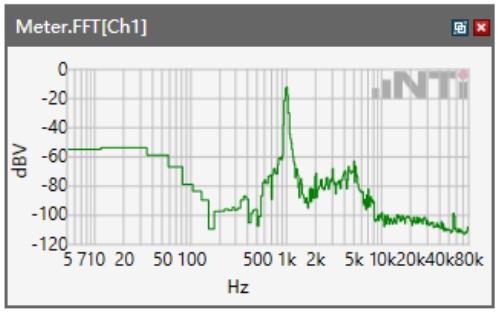
ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\LTE Band 71



Speech Level RCV: 86.77 dB[SPL]

Calculated Value: 16.77 dB Ok

ANSI/TIA 5050-2018 \ 2N HAC ON \ EVS WB 24.4 kbps\WLAN 2.4GHz



Speech Level RCV: 86.22 dB[SPL]

Calculated Value: 16.22 dB Ok