



REPORT No.: SZ23110216S02

## Annex D Test Results of Volume Control

## Measurement Protocol

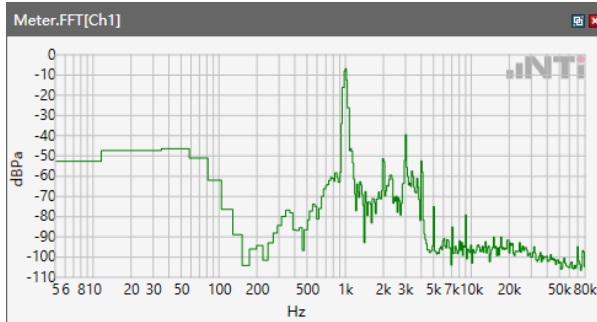
Project	SZ23110216 of TIA 5050 v1
Report Generation Date	2024/04/22

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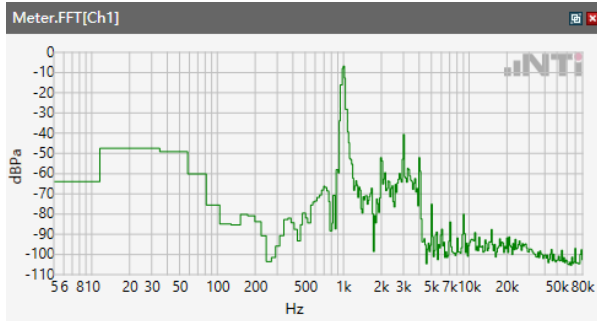
## 5.1 Receive Volume Control Performance 8N---NB

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



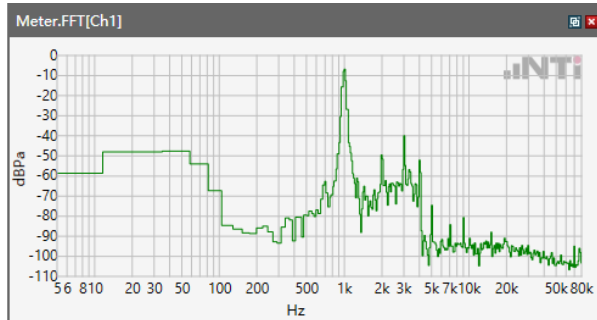
Speech Level RCV: 89.81 dB[SPL]

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



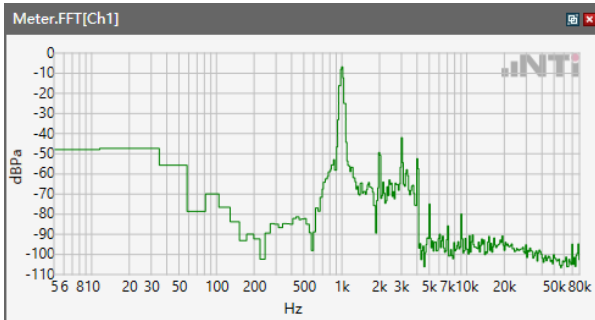
Speech Level RCV: 90.52 dB[SPL]

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



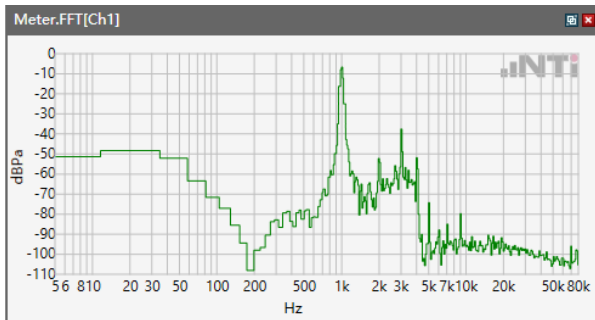
Speech Level RCV: 89.84 dB[SPL]

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



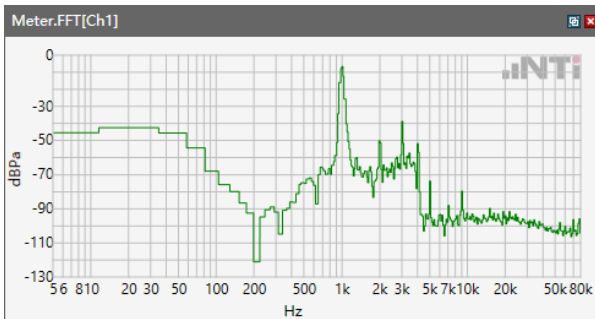
Speech Level RCV: 89.82 dB[SPL]

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



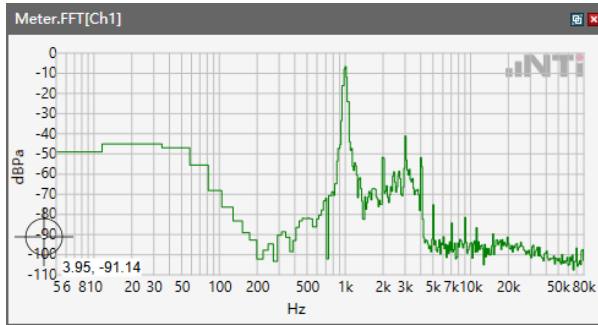
Speech Level RCV: 89.58 dB[SPL]

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



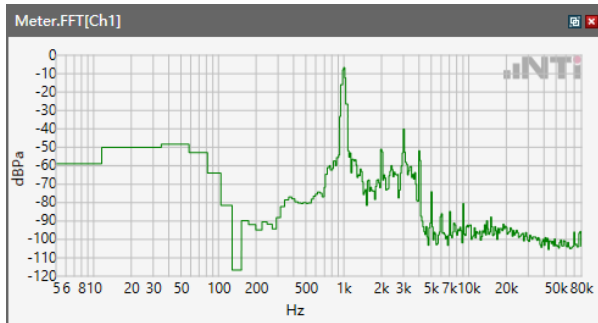
Speech Level RCV: 89.68 dB[SPL]

## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 4



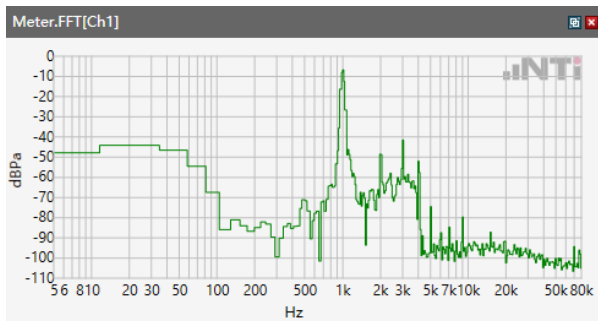
Speech Level RCV: 90.07 dB[SPL]

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



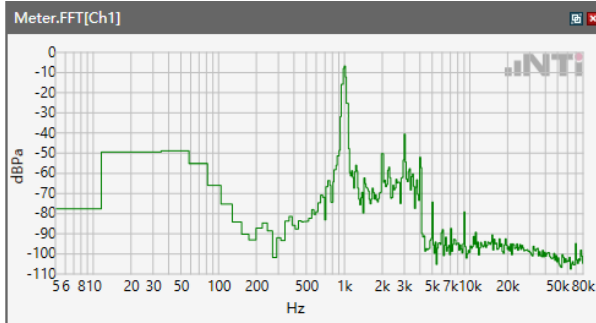
Speech Level RCV: 89.74 dB[SPL]

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



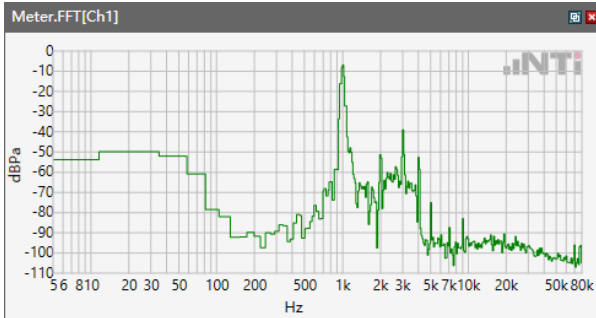
Speech Level RCV: 89.86 dB[SPL]

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



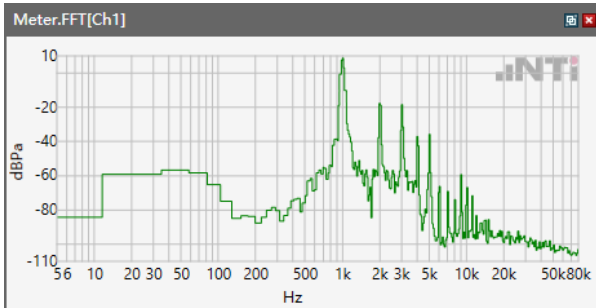
Speech Level RCV: 89.69 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 13



Speech Level RCV: 89.73 dB[SPL]

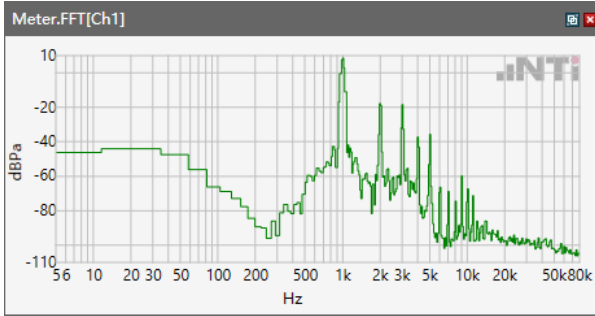
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 17



Speech Level RCV: 89.62 dB[SPL]

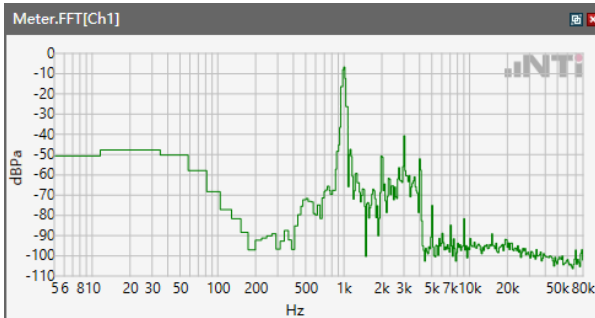


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 25



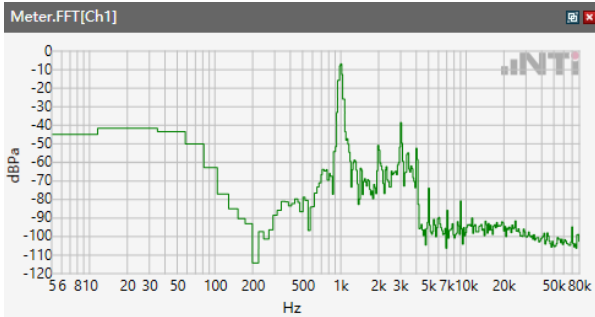
Speech Level RCV: 89.62 dB[SPL]

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



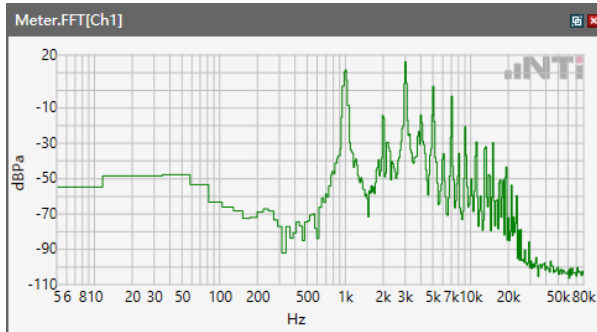
Speech Level RCV: 90.12 dB[SPL]

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



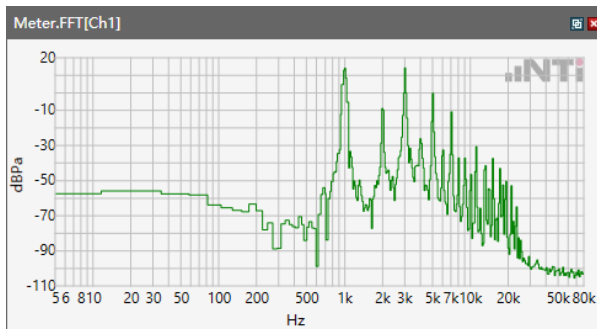
Speech Level RCV: 87.11 dB[SPL]

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



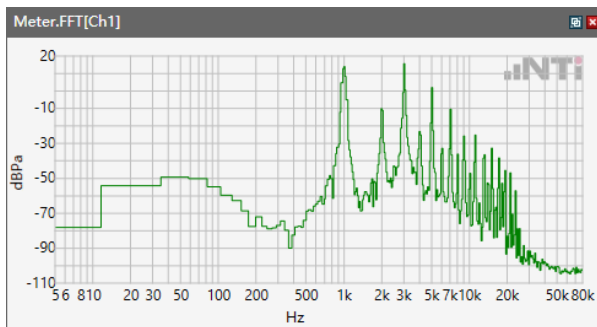
Speech Level RCV: 107.9 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.2GHz



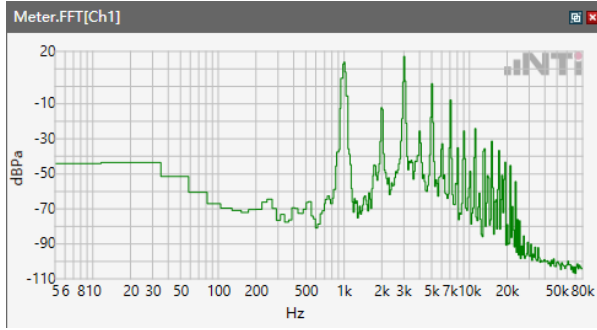
Speech Level RCV: 109.2 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.3GHz



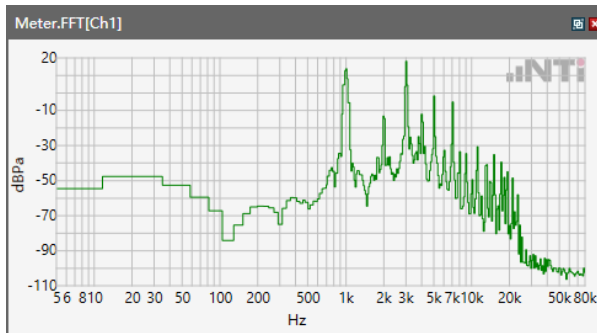
Speech Level RCV: 110.1 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.5GHz



Speech Level RCV: 108.3 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.8GHz



Speech Level RCV: 109.3 dB[SPL]

### **5.1.1 -1 Conversation Gain 8N**

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

#### **Correction**

rcv_vol_nb	89.81 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.81 dB Ok

**Ok**

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#### **Limits**

	<b>lower</b>
Run 1	6.00 dB

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

#### **Correction**

rcv_vol_nb	90.52 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 20.52 dB Ok

**Ok**

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#### **Limits**

	<b>lower</b>
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	89.84 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.84 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	89.82 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.82 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

### Correction

rcv_vol_nb	89.58 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 19.58 dB Ok

Ok

---

### Limits

	lower
Run 1	6.00 dB

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

### Correction

rcv_vol_nb	89.68 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 19.68 dB Ok

Ok

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### Limits

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 4

**Correction**

rcv_vol_nb	90.07 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 20.07 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	89.74 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.74 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	89.86 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.86 dB Ok

**Ok**

**Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	89.69 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 19.69 dB Ok

**Ok**

**Limits**

	lower
Run 1	6.00 dB



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\LTE Band 13

**Correction**

rcv_vol_nb	89.73 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.73 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 17

**Correction**

rcv_vol_nb	89.62 dB[SPL]	2024.04.03	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.62 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 25

**Correction**

rcv_vol_nb	89.62 dB[SPL]	2024.04.03	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 19.62 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	90.12 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 20.12 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	87.11dB[SPL]	2024.03.22	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 17.11 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

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

**Correction**

rcv_vol_nb	107.9 dB[SPL]	2024.03.26	Measured	5.1 Receive Volume Control Performance 8N
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rcv\_vol\_nb-70

Calculated Value: 37.9 dB Ok

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.2GHz

### Correction

rcv_vol_nb	109.2 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 39.2 dB Ok

Ok

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### Limits

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.3GHz

### Correction

rcv_vol_nb	110.1 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 40.1 dB Ok

Ok

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### Limits

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.5GHz

**Correction**

rcv_vol_nb	108.3 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

Calculated Value: 38.3 dB Ok

**Ok****Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.8GHz

**Correction**

rcv_vol_nb	109.3 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_nb-70

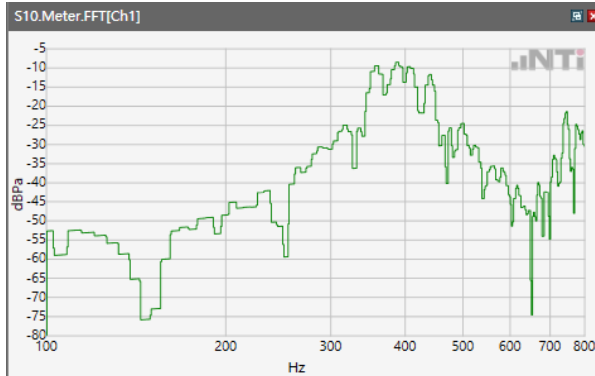
Calculated Value: 39.3 dB Ok

**Ok****Limits**

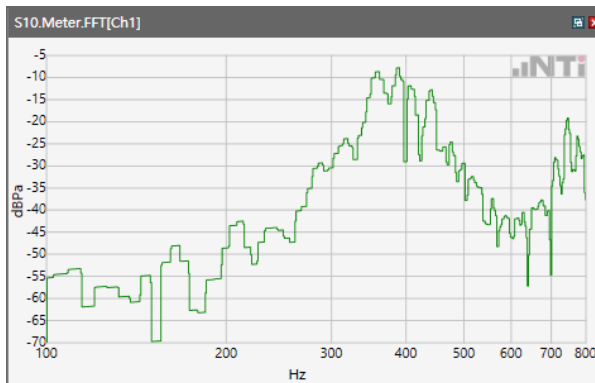
	<b>lower</b>
Run 1	6.00 dB

## Receive path - distortion and noise 400Hz WB&NB

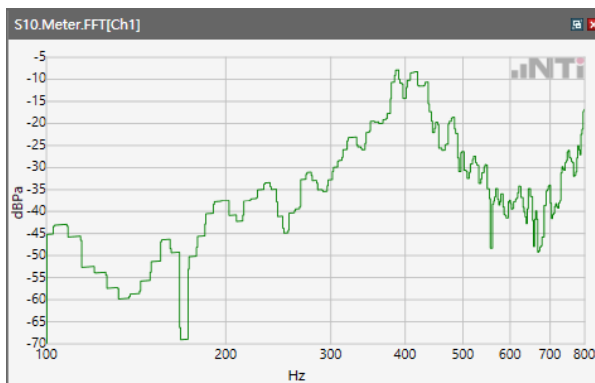
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



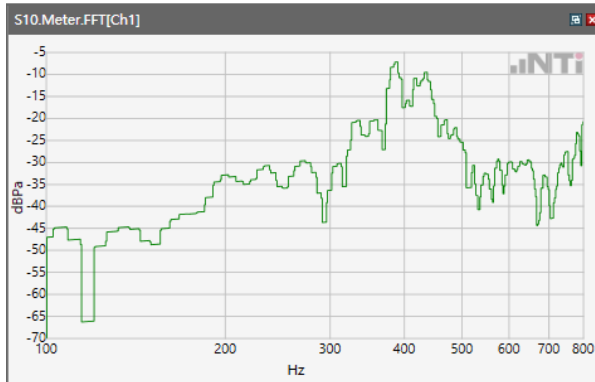
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



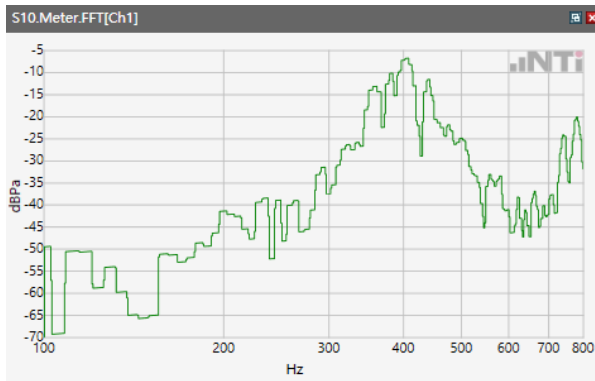
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



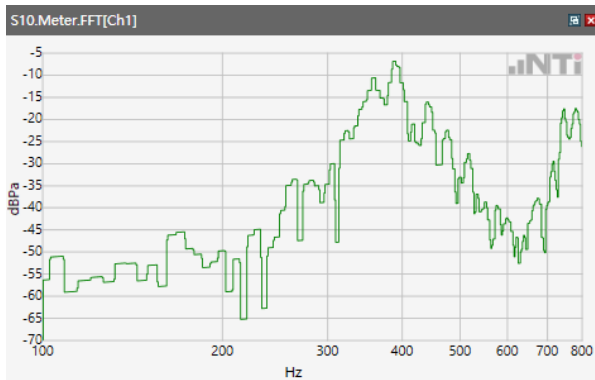
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



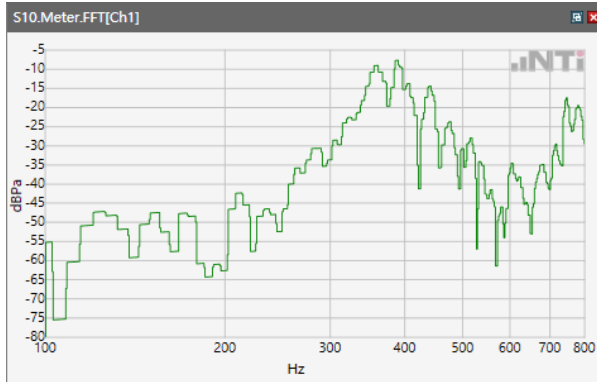
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



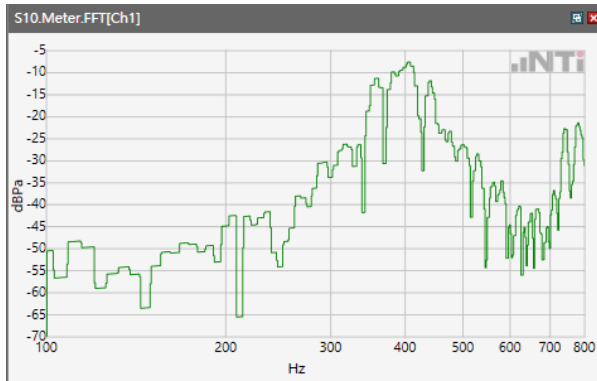
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



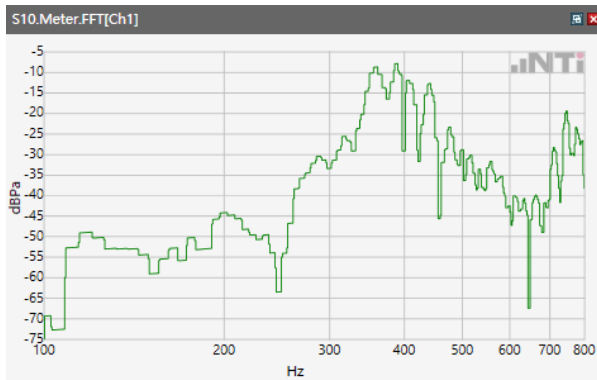
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



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

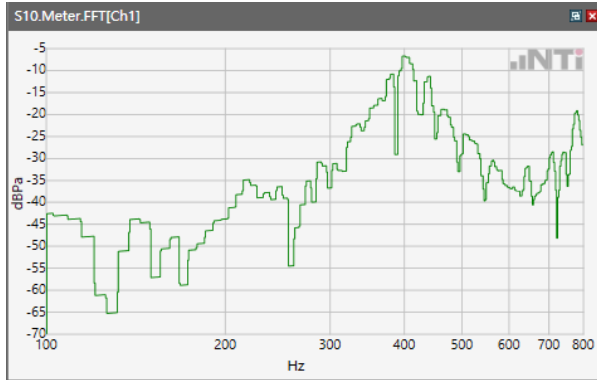


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7

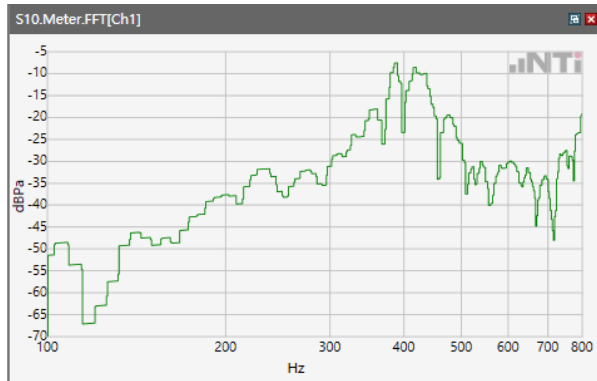




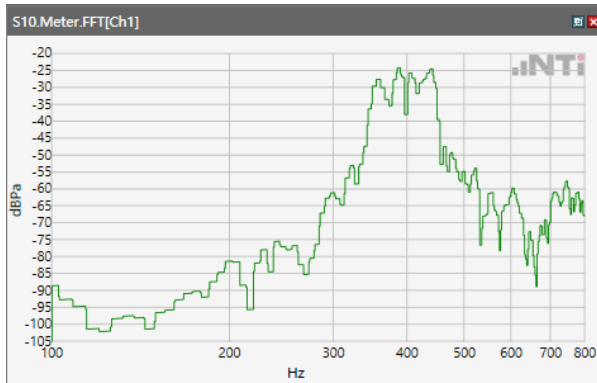
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



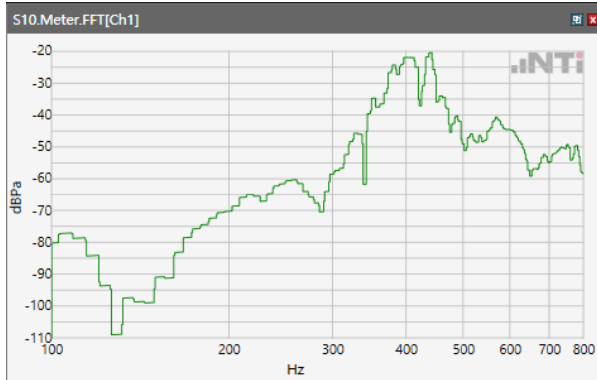
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



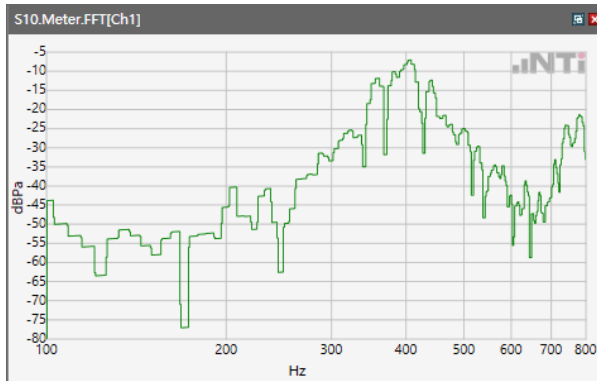
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



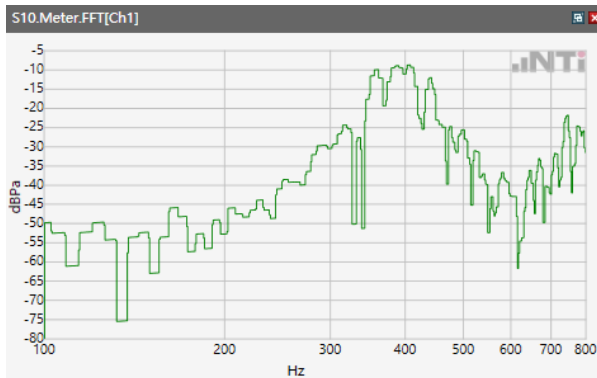
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



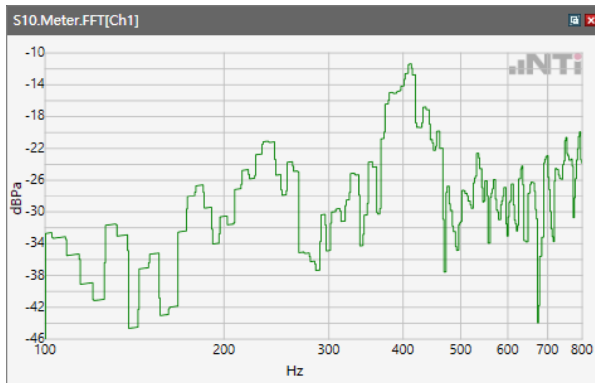
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



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



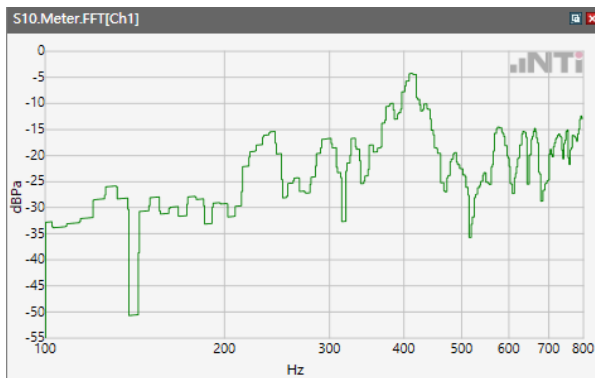
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



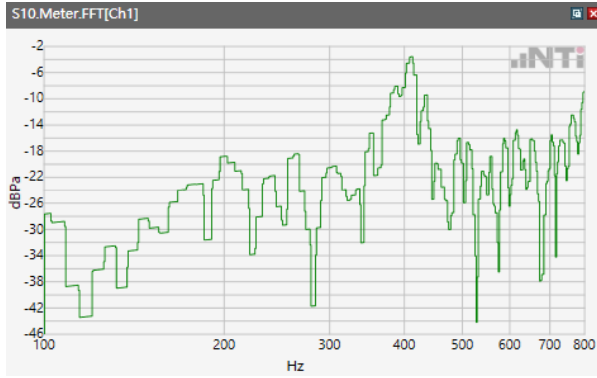
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



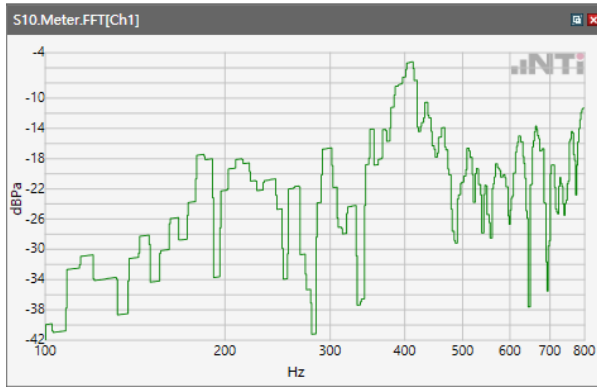
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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

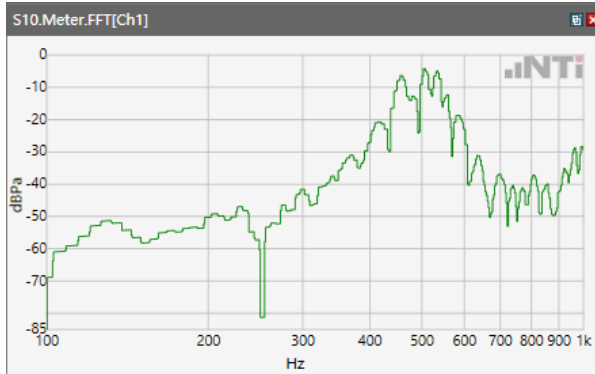


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

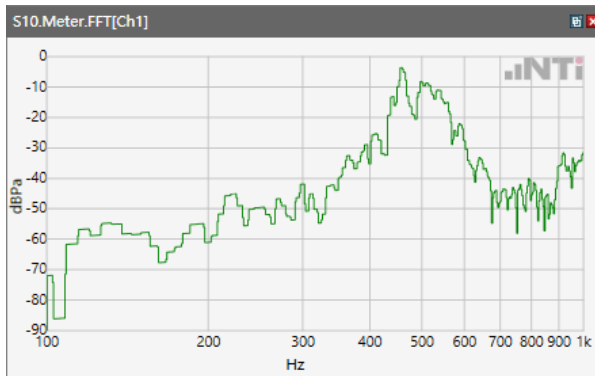


## Receive path - distortion and noise 500Hz WB&NB

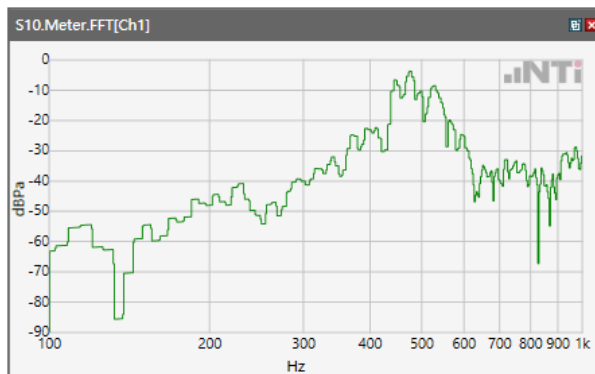
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



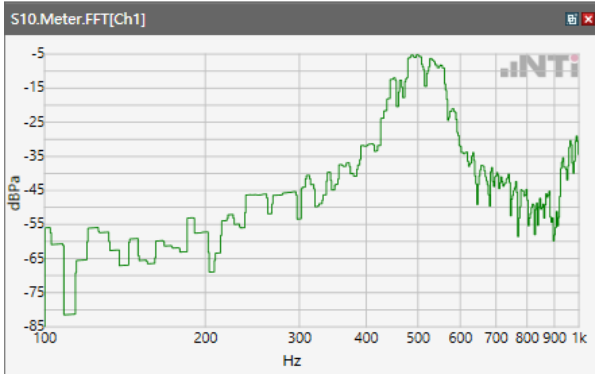
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



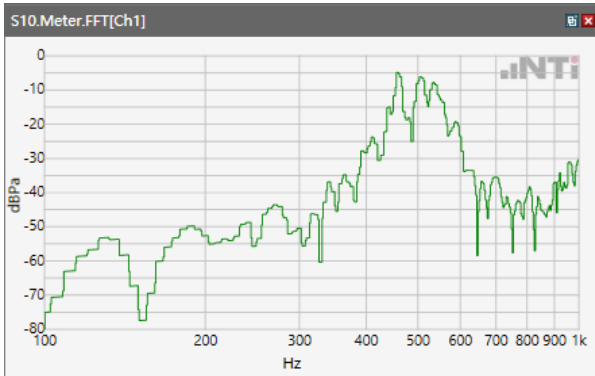
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



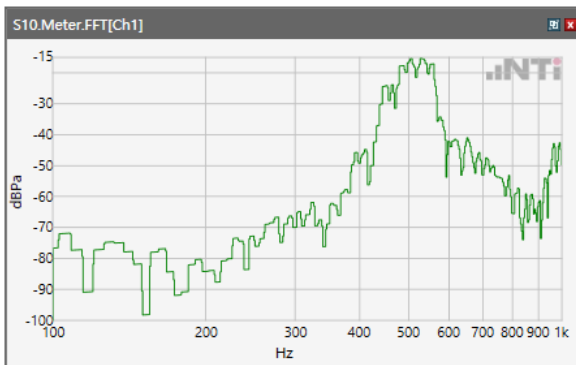
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



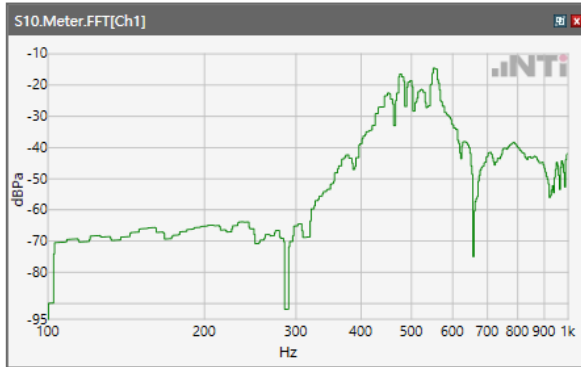
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



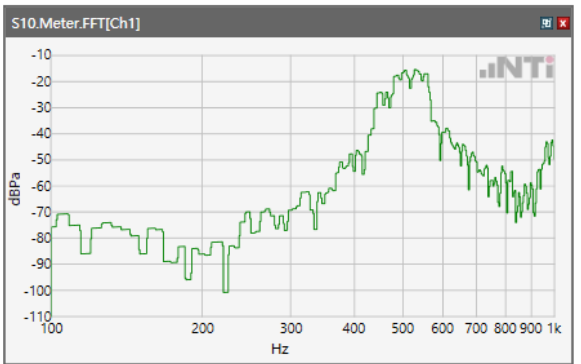
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



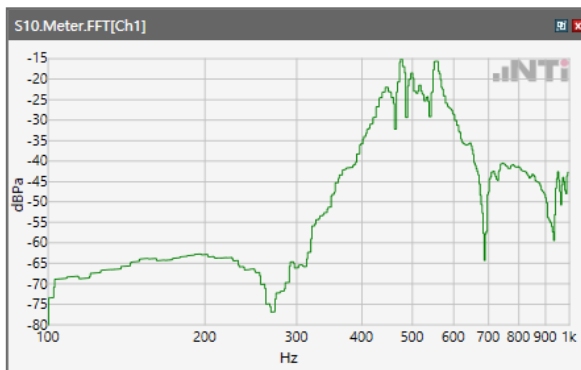
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



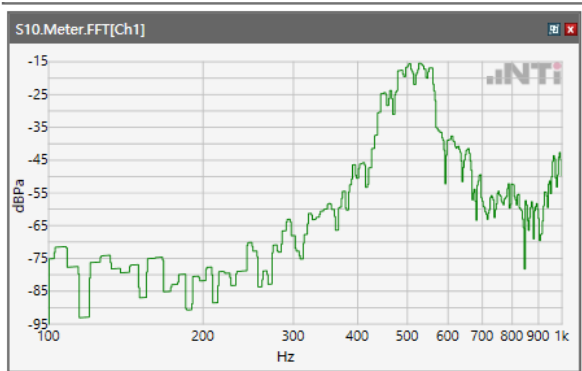
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



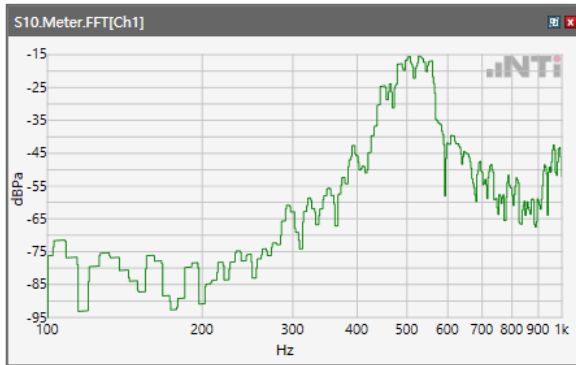
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



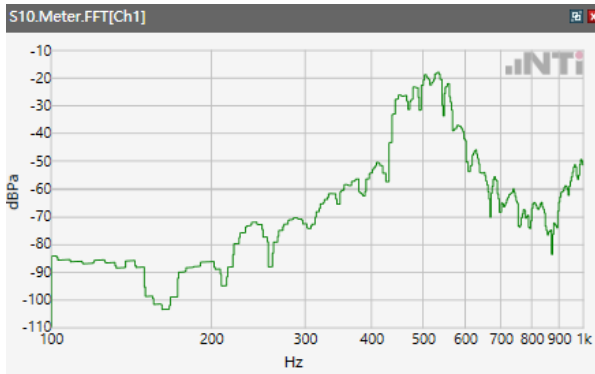
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13

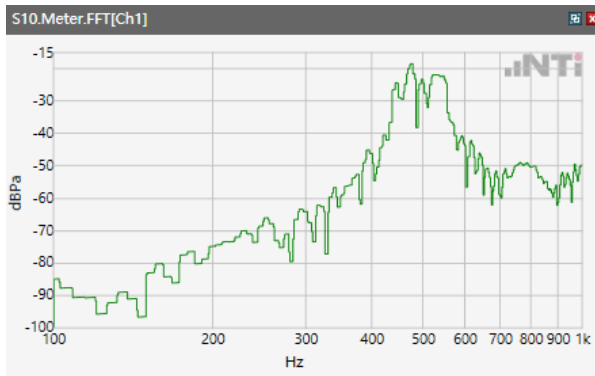


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17

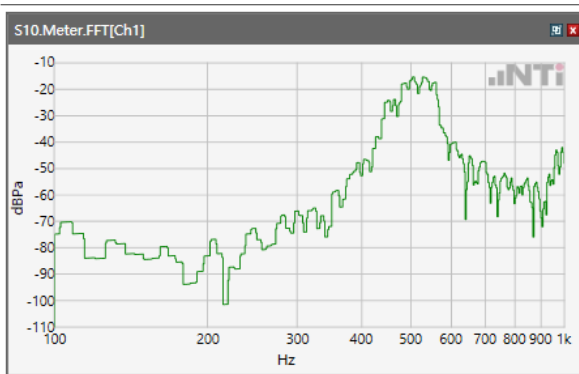




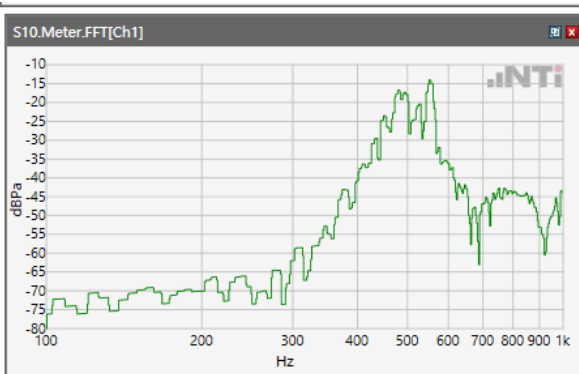
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



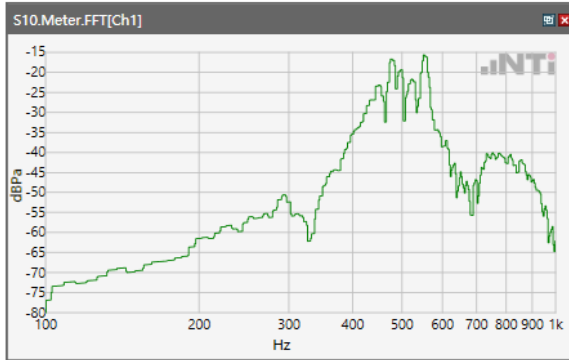
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



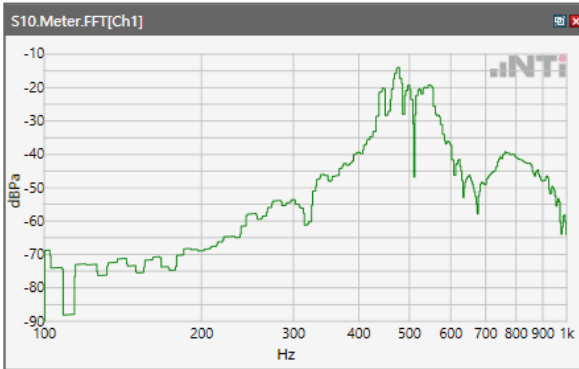
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



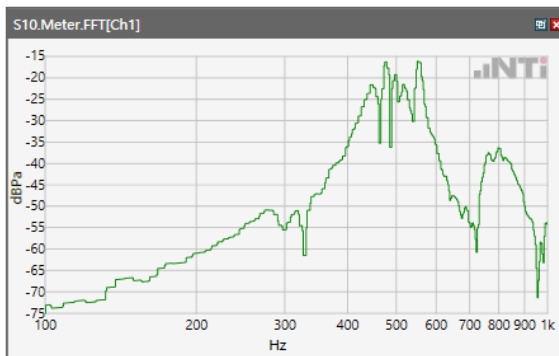
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



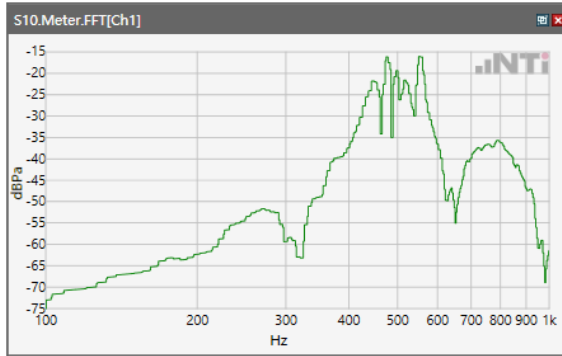
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



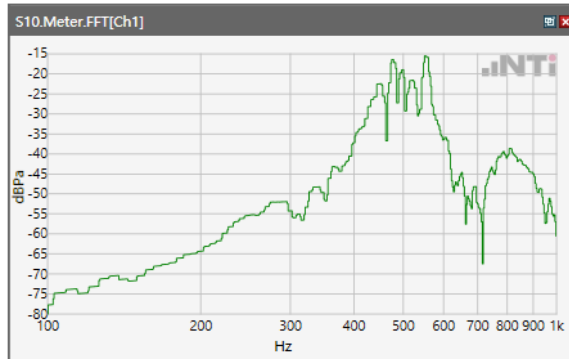
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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

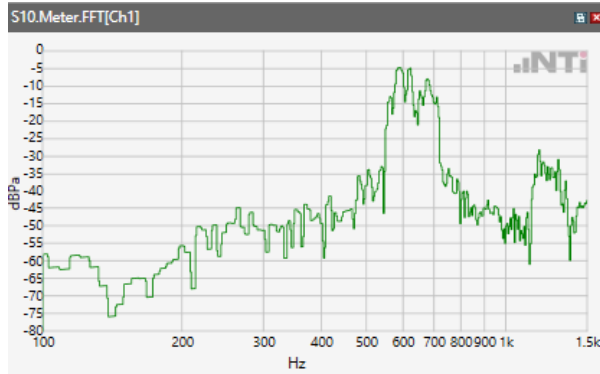


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

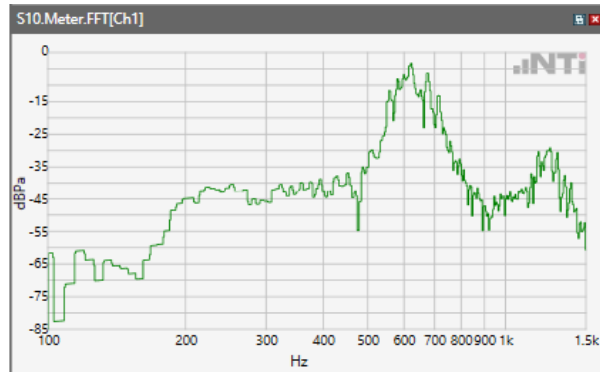


## Receive path - distortion and noise 630Hz WB&NB

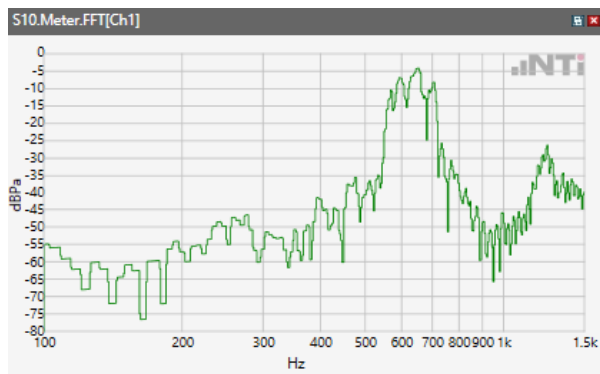
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



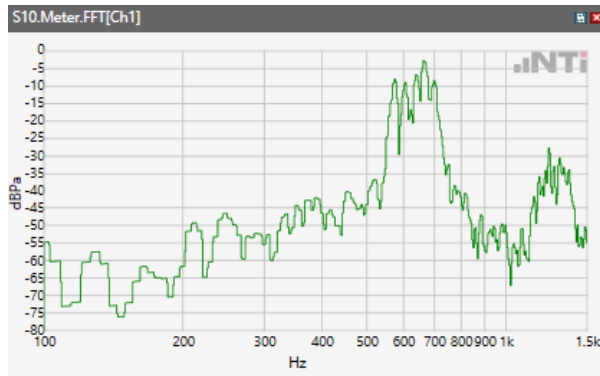
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



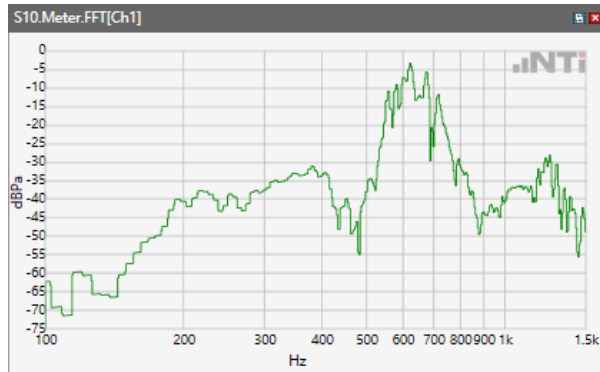
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



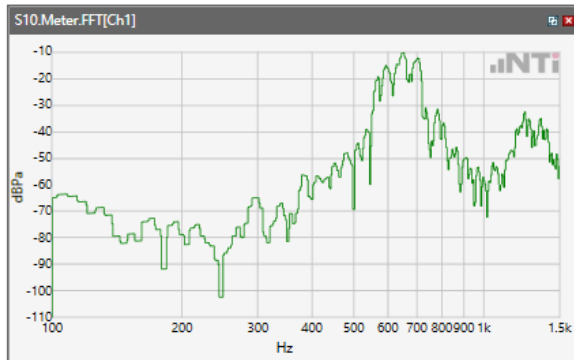
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



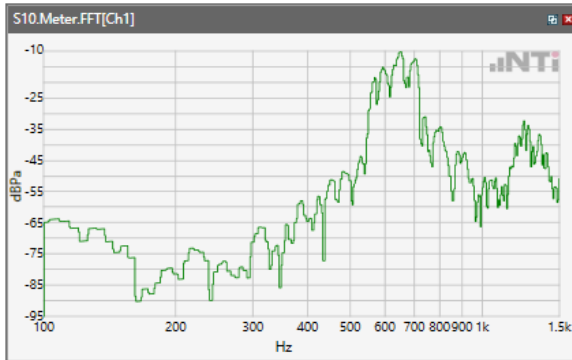
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



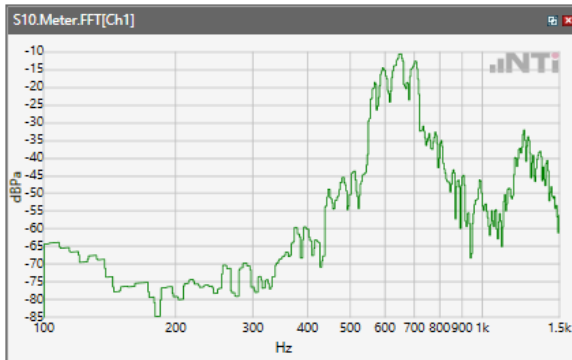
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



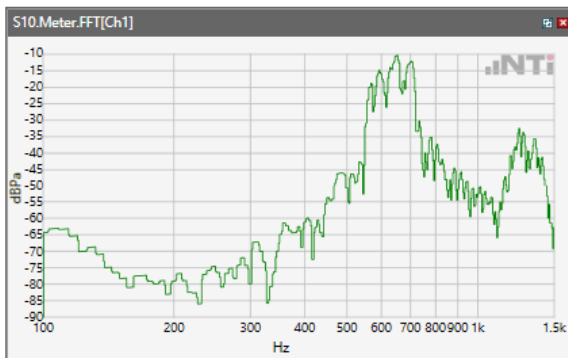
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



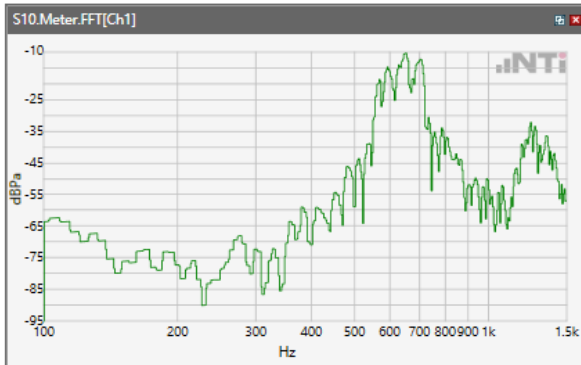
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



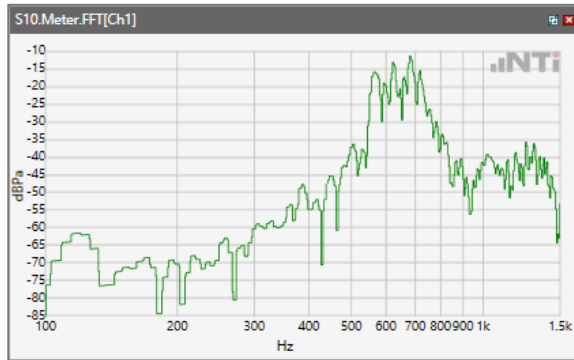
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



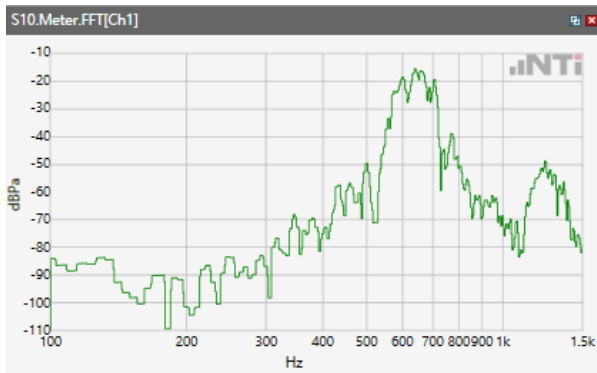
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 12



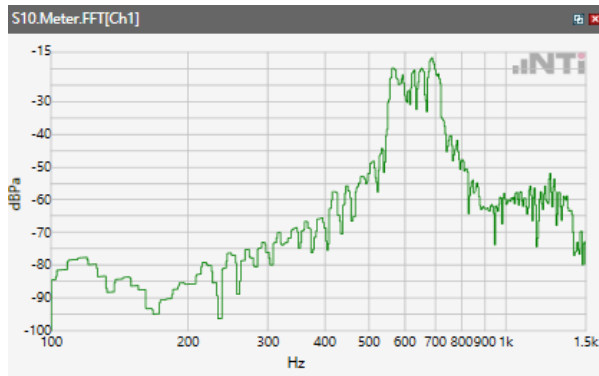
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



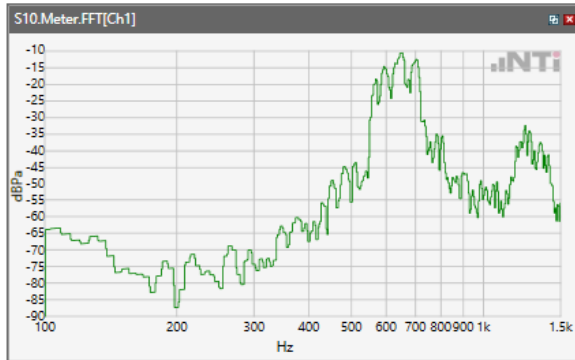
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 17



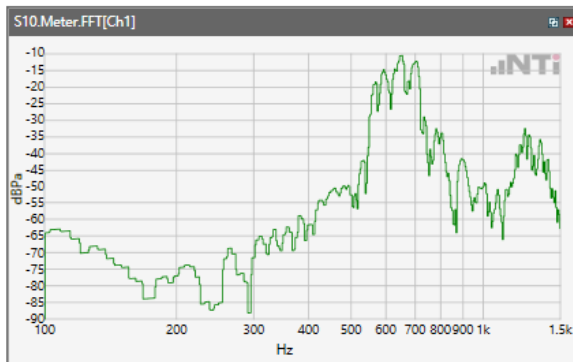
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



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

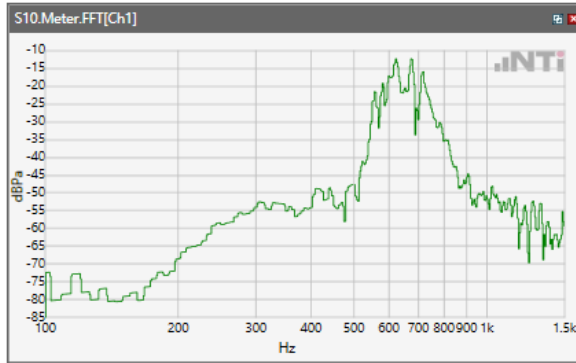


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

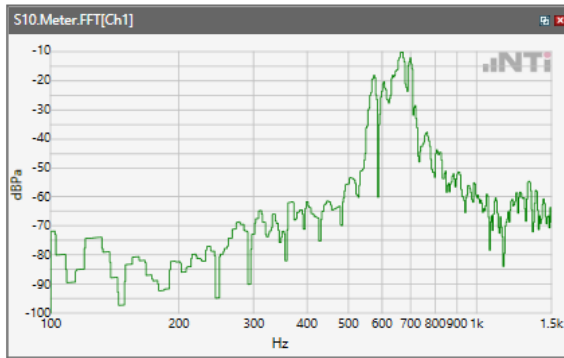




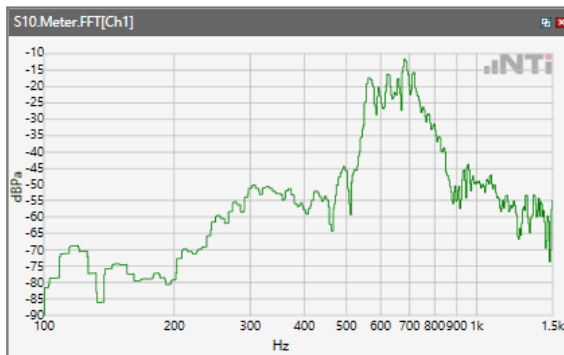
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



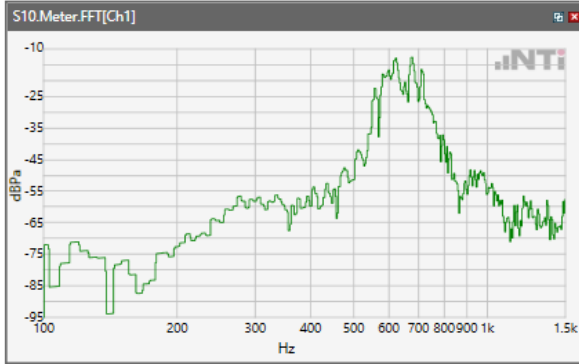
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



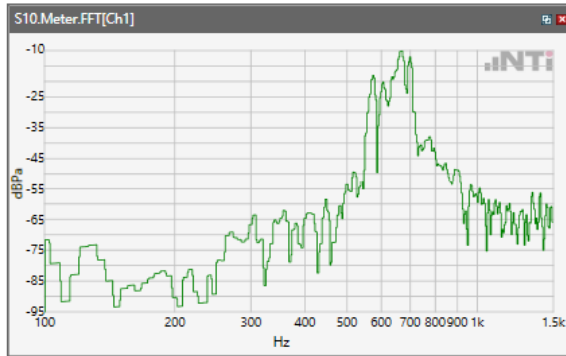
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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

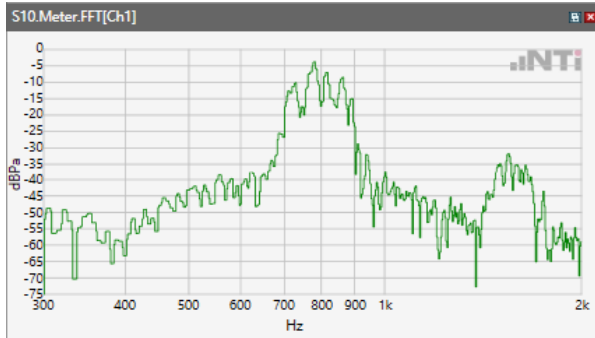


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

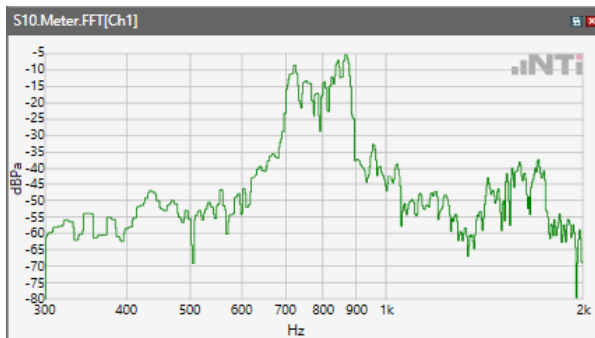


## Receive path - distortion and noise 800Hz WB&NB

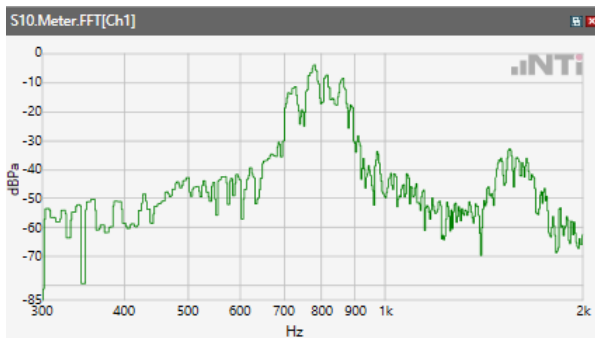
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



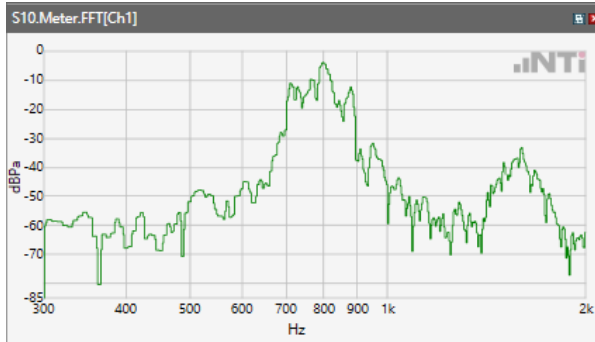
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



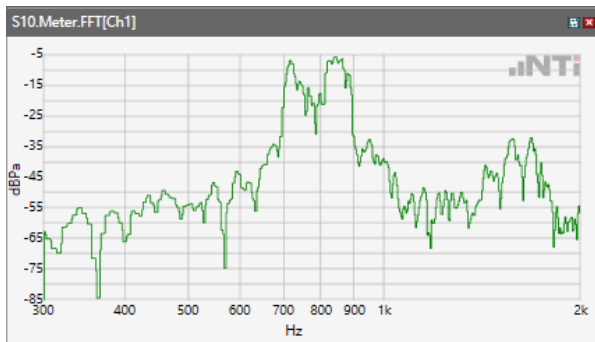
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



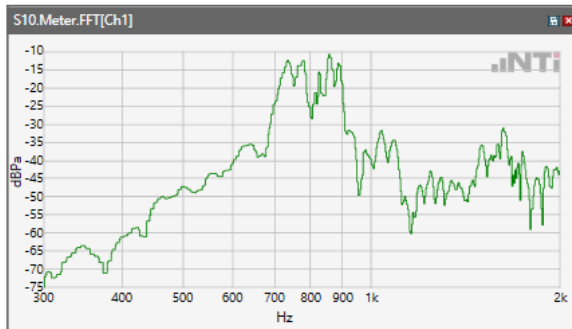
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



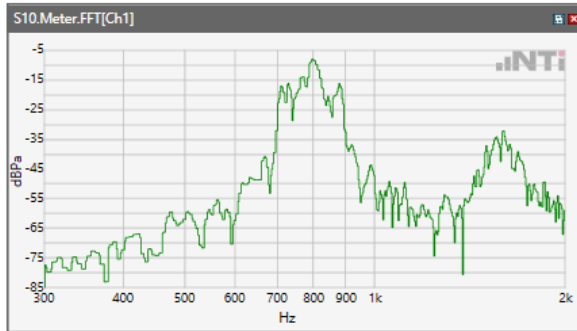
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



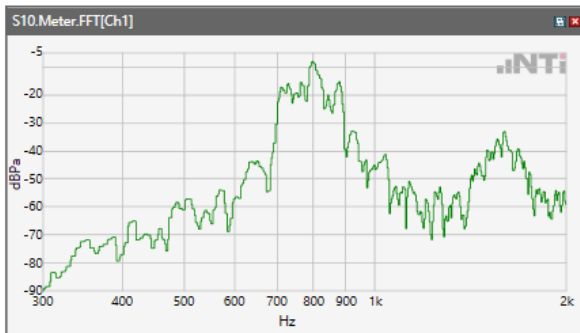
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



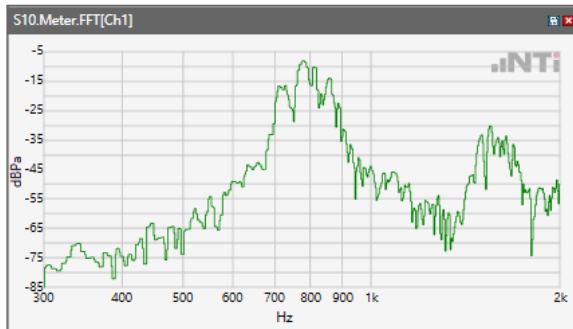
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



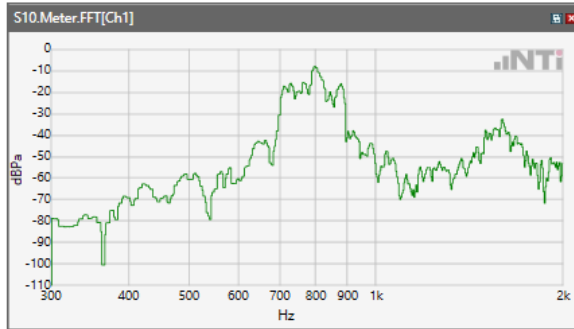
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



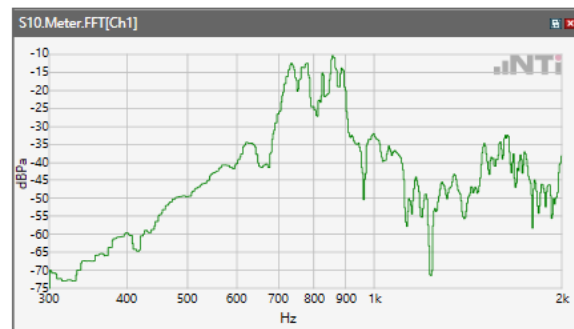
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



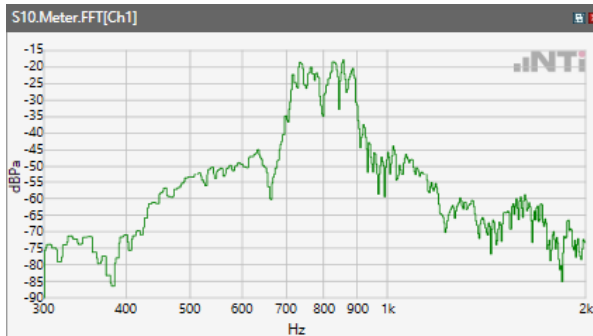
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



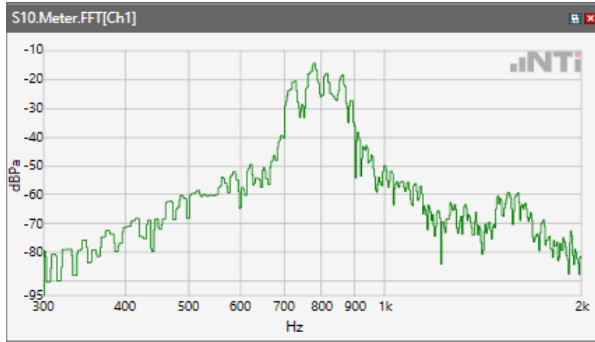
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13



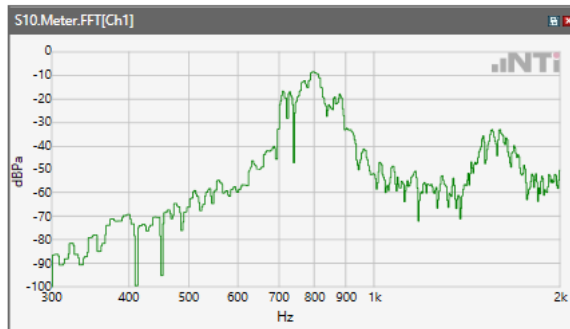
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17



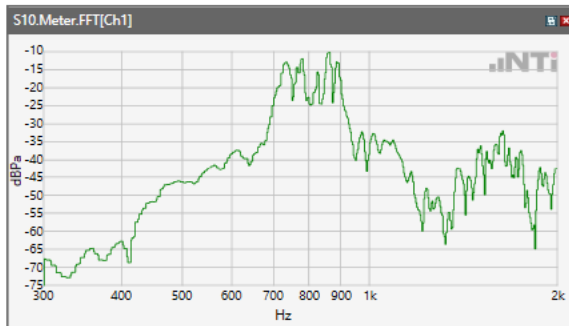
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



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



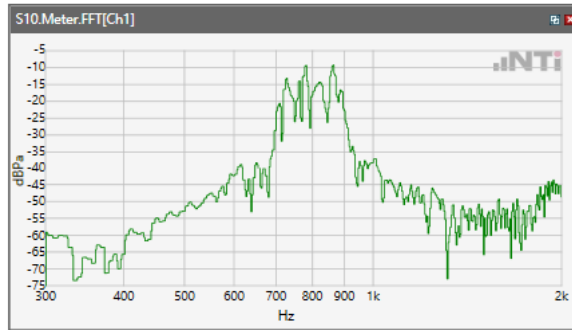
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



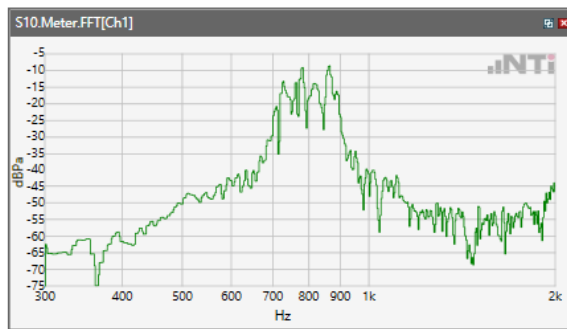
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



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

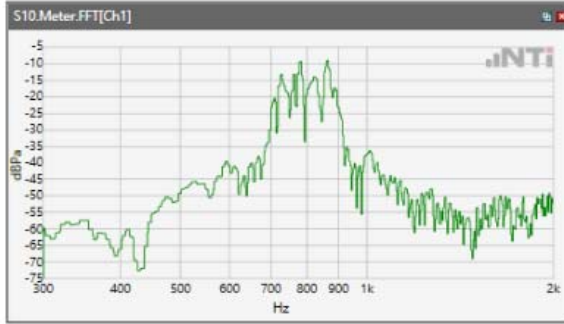


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz

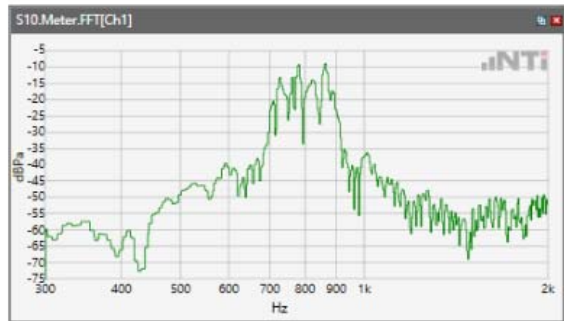




ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.5 GHz

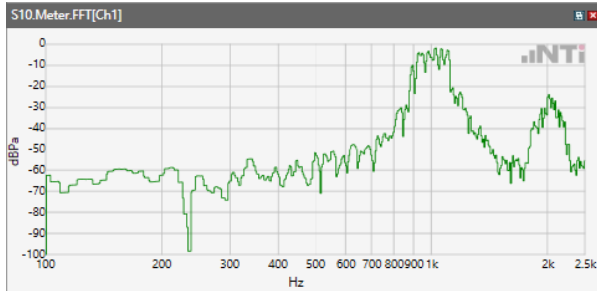


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

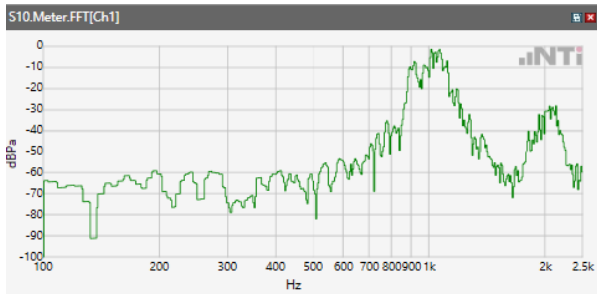


## Receive path - distortion and noise 1000Hz WB&NB

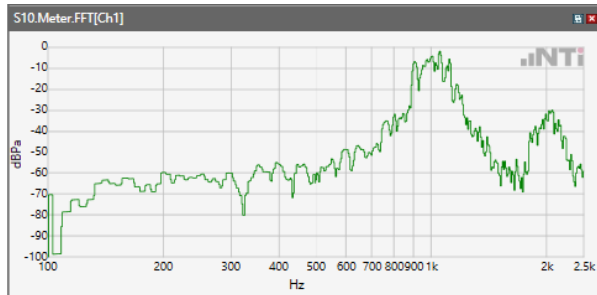
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



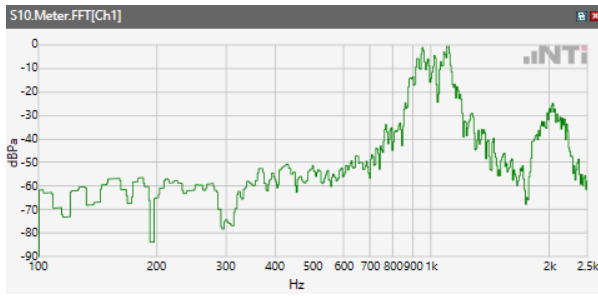
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



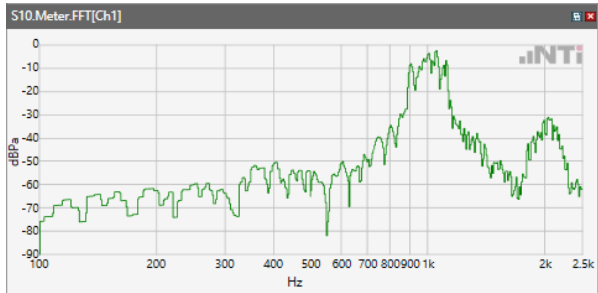
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



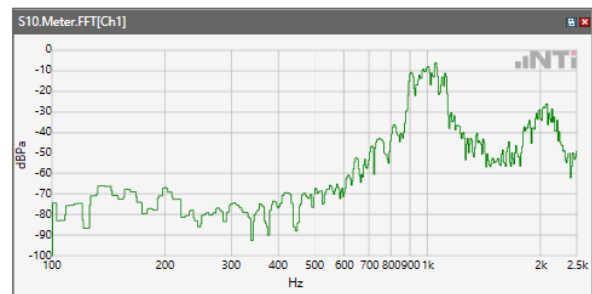
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



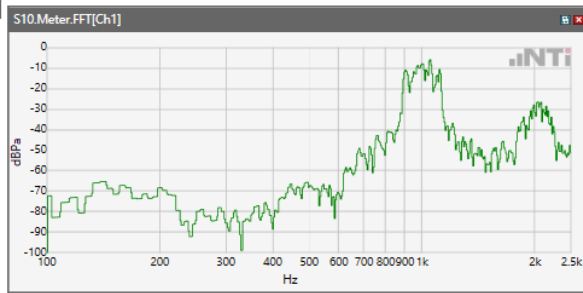
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



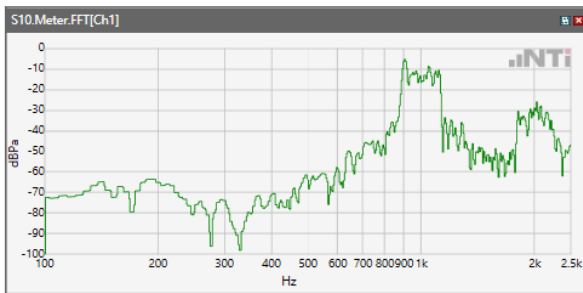
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



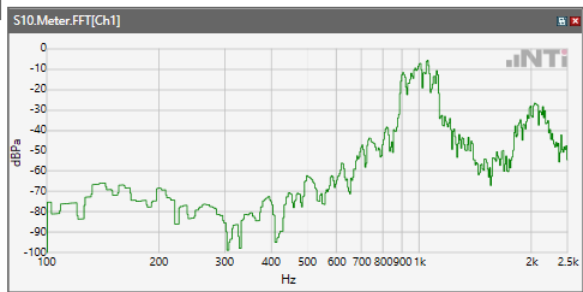
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



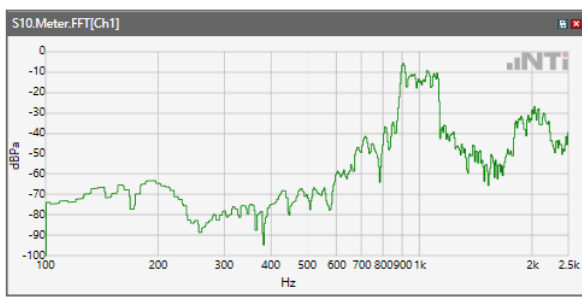
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



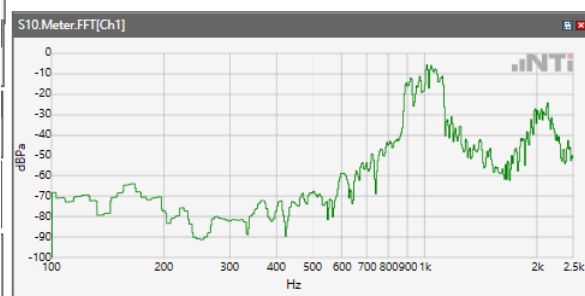
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



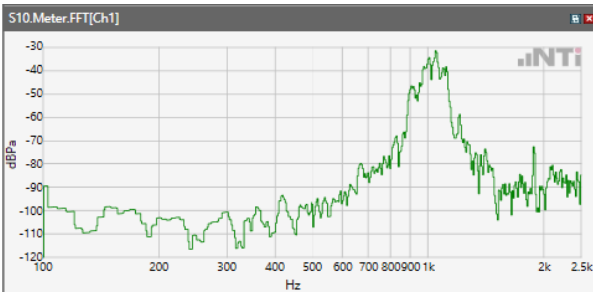
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



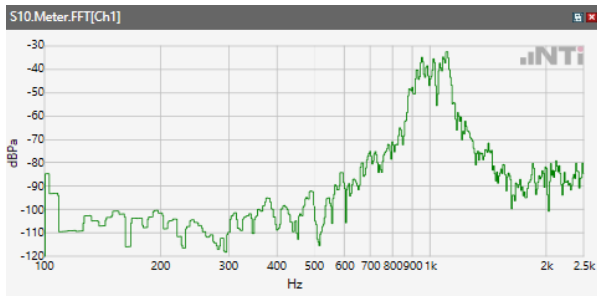
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



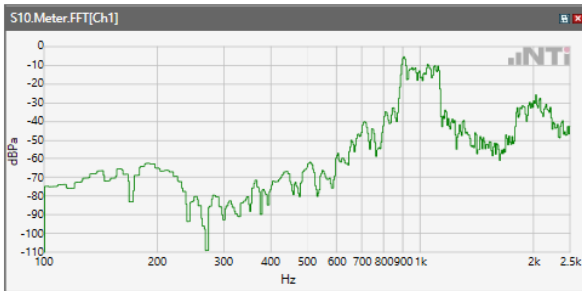
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



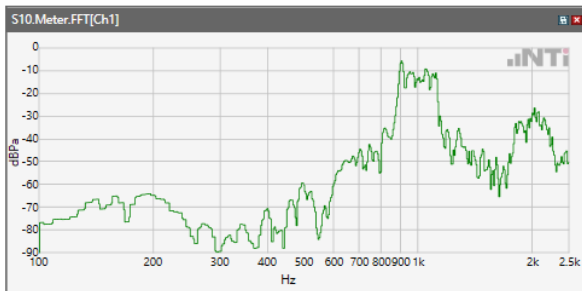
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



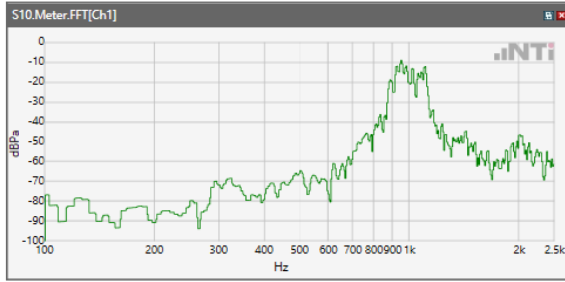
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



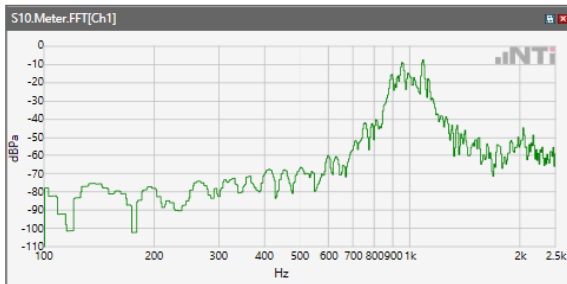
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



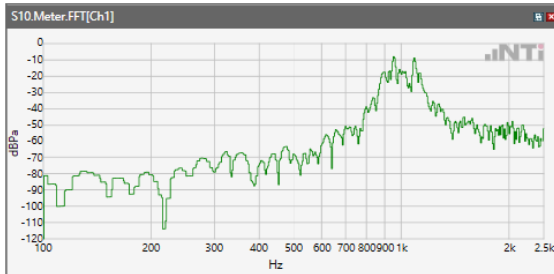
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



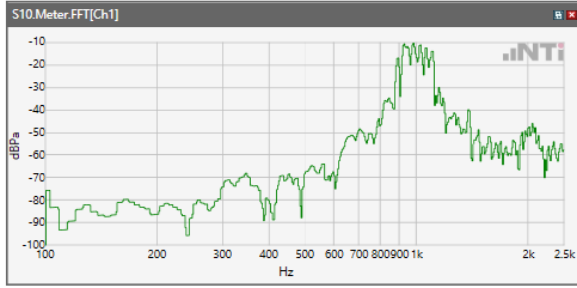
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



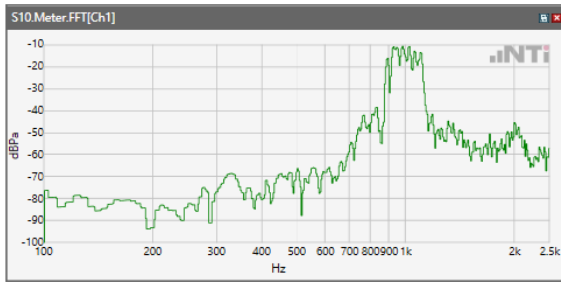
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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



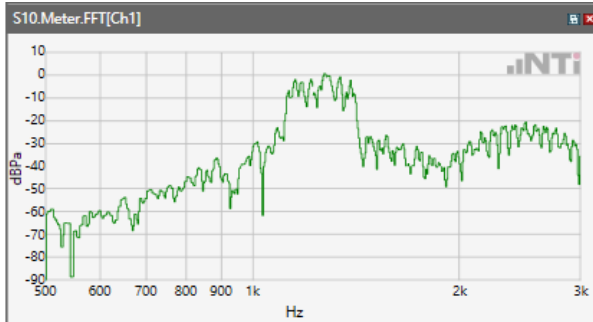
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz



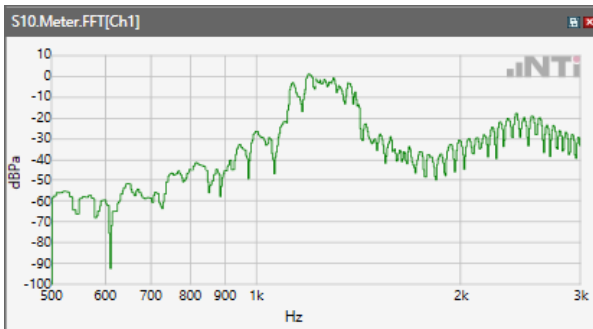


## Receive path - distortion and noise 1250Hz WB&NB

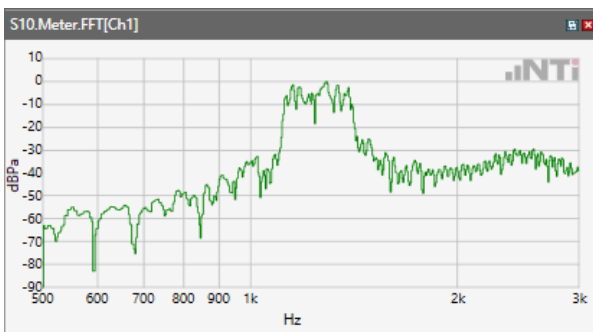
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



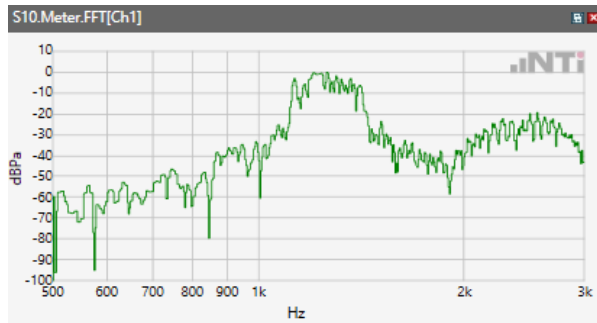
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



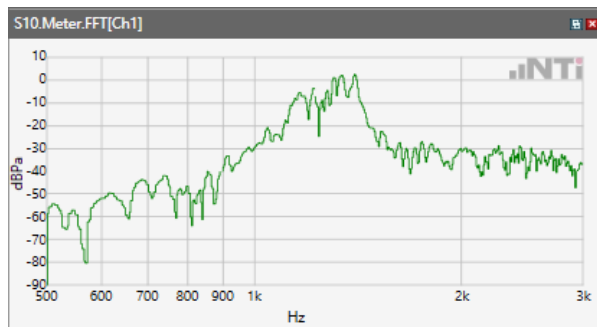
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



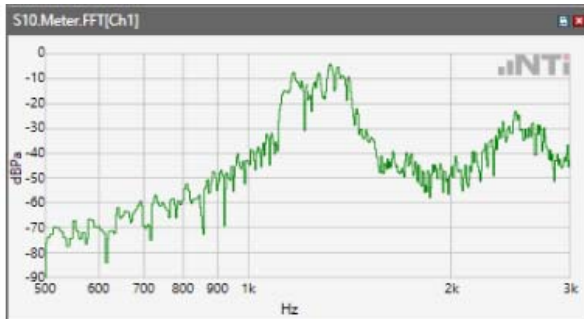
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



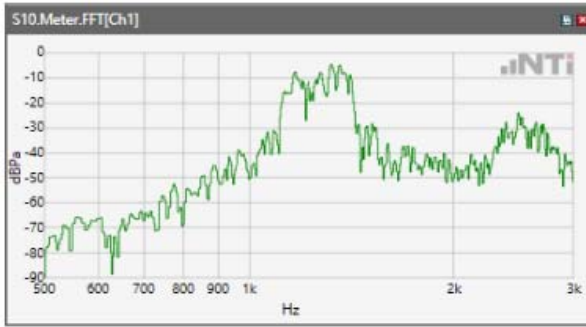
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



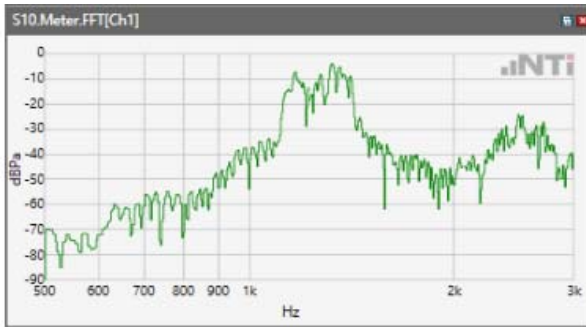
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



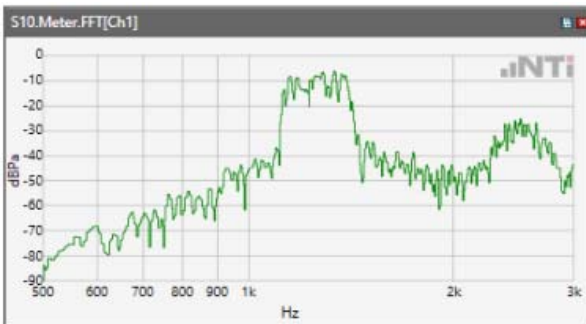
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



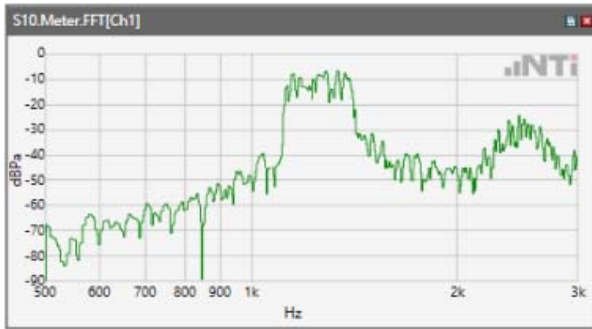
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



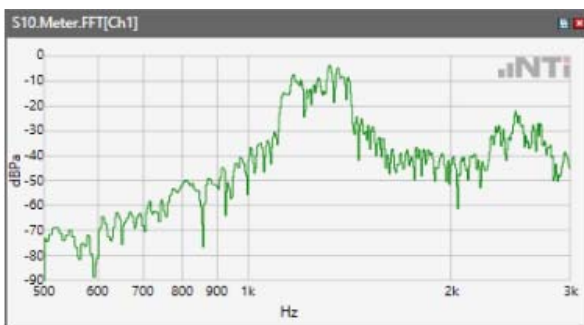
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



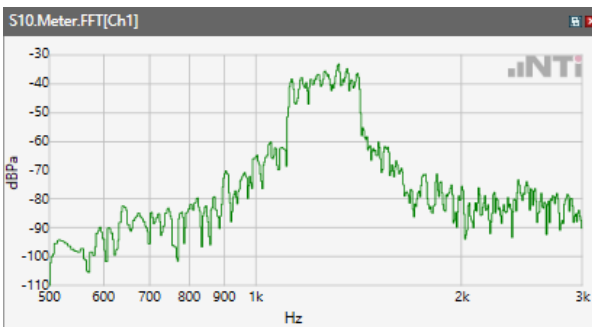
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



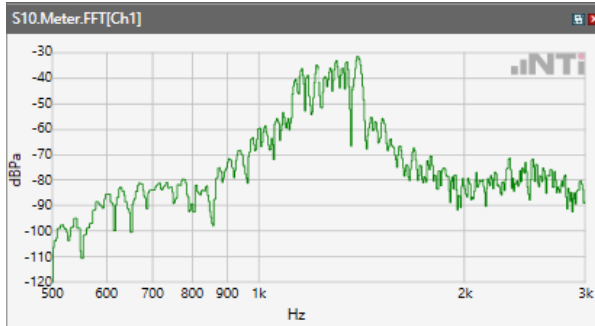
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



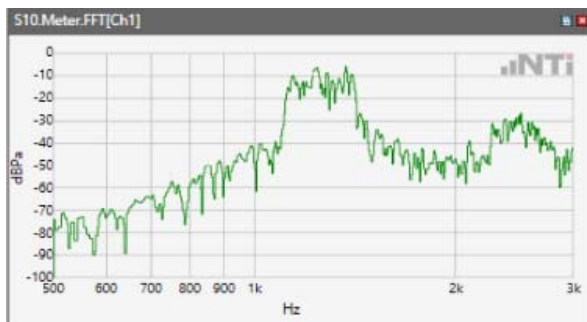
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



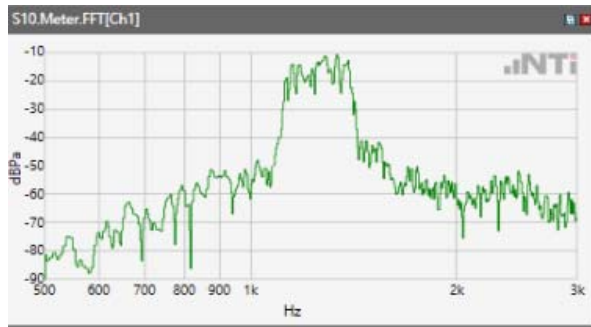
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



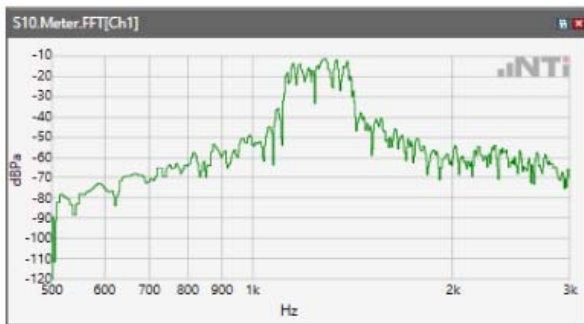
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



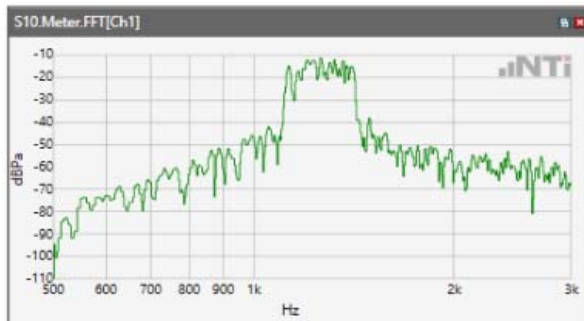
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



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



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



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

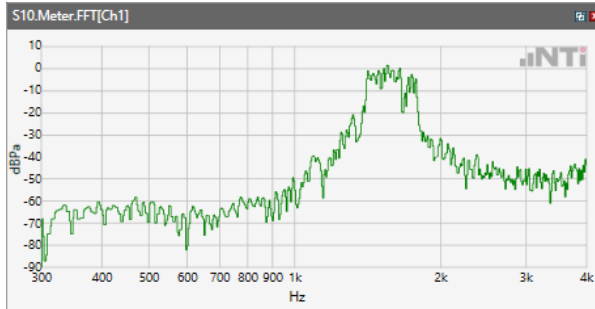


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

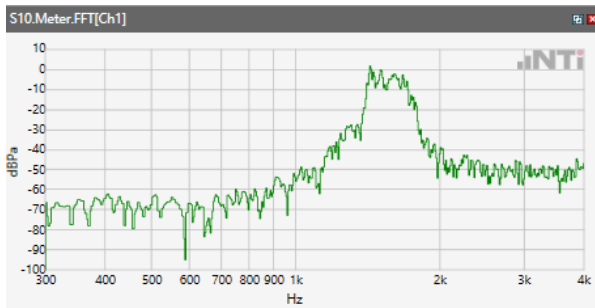


## Receive path - distortion and noise 1600Hz WB&NB

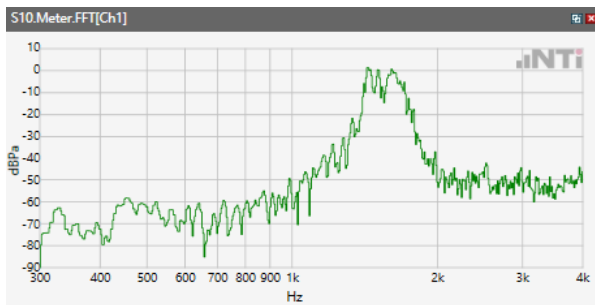
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



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

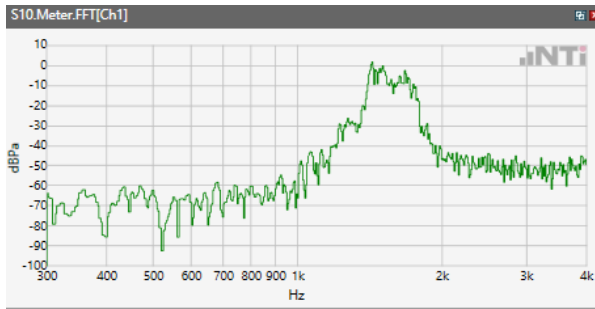


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II

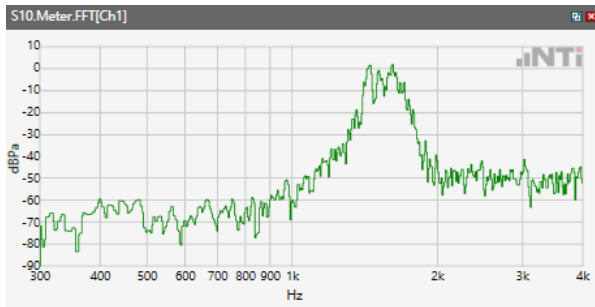




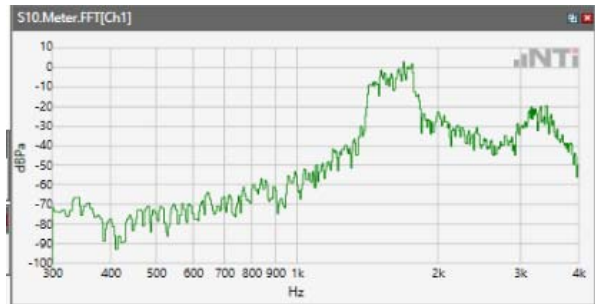
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



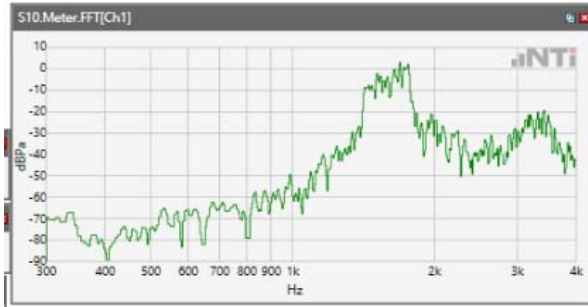
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



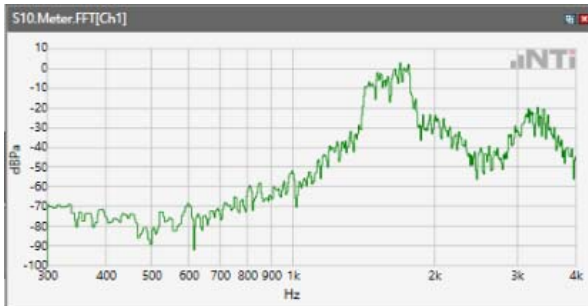
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



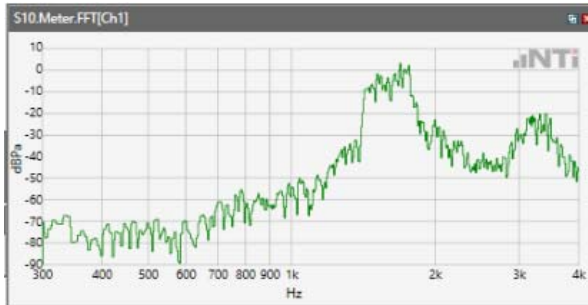
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



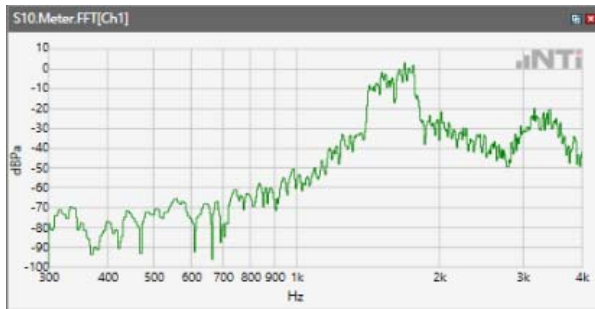
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



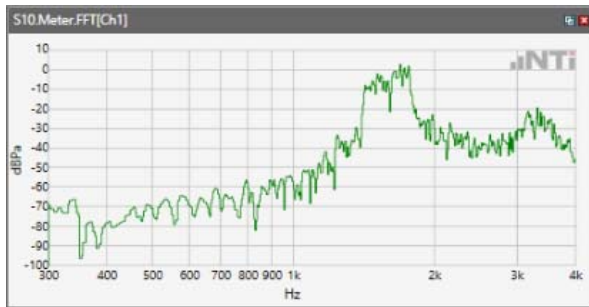
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



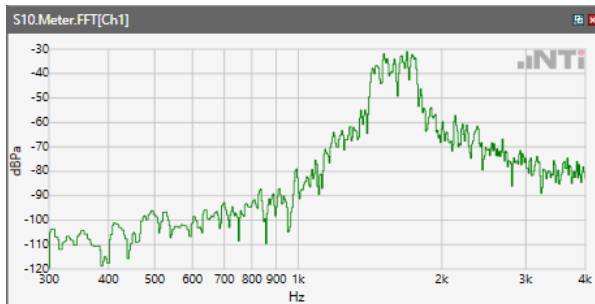
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



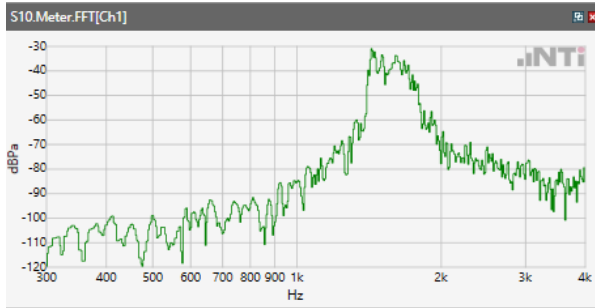
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



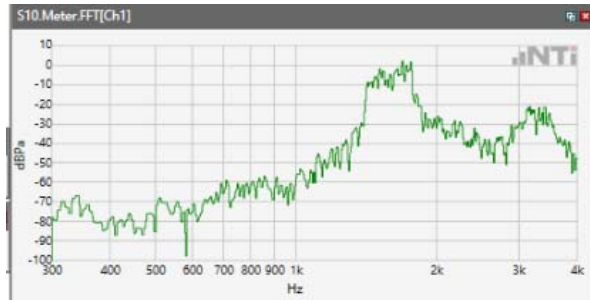
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



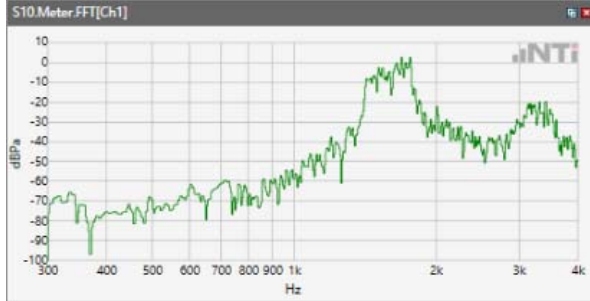
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



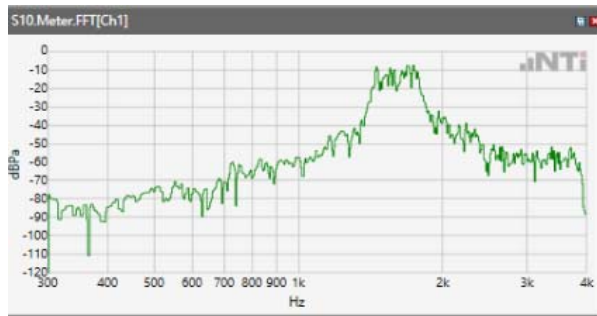
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



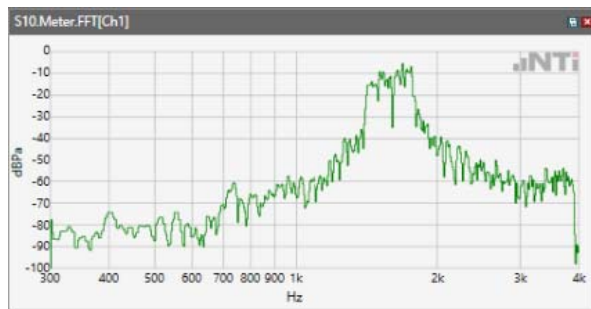
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



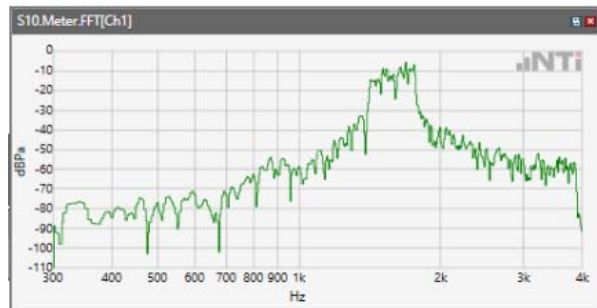
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



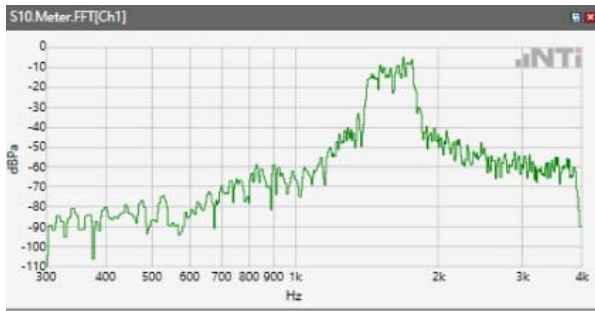
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



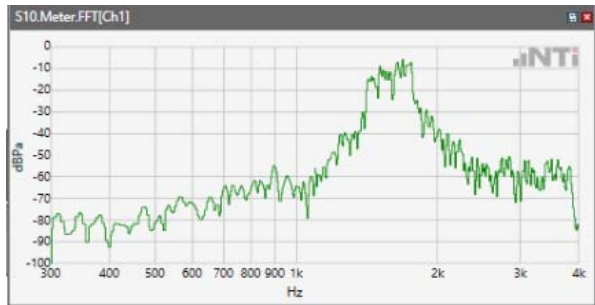
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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

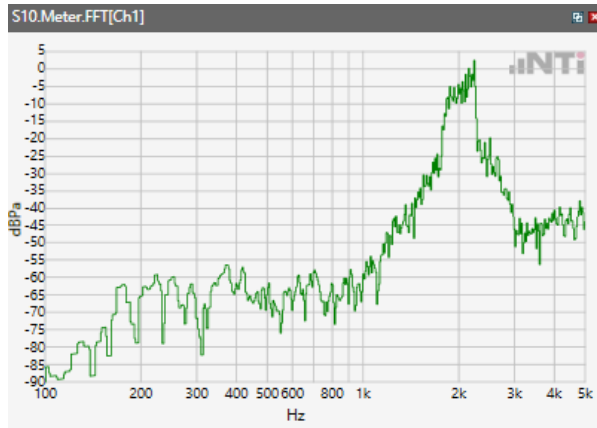


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

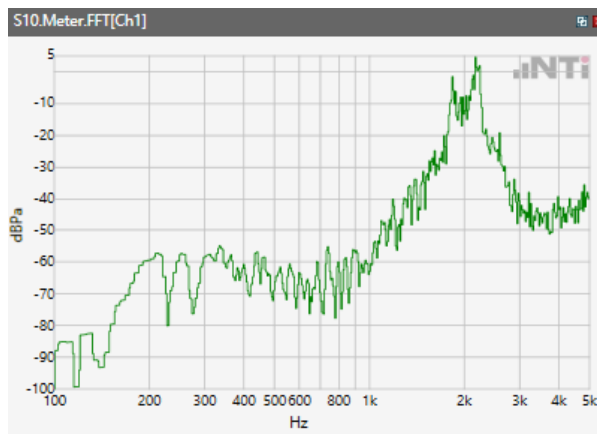


## Receive path - distortion and noise 2000Hz WB&NB

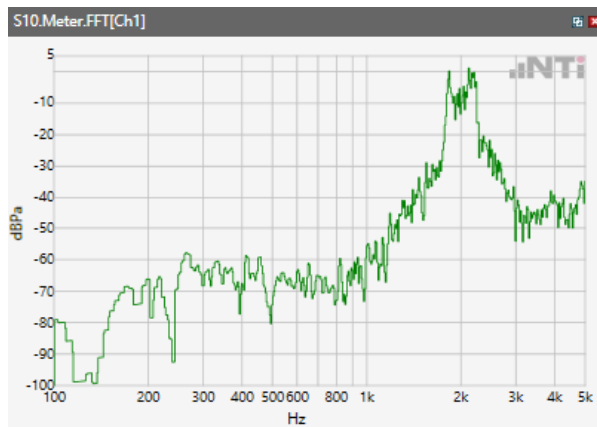
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



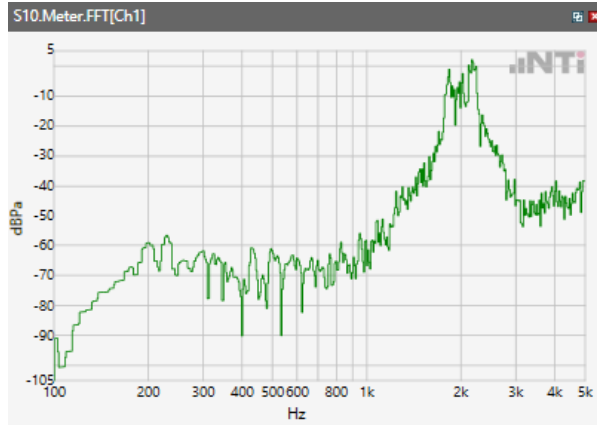
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



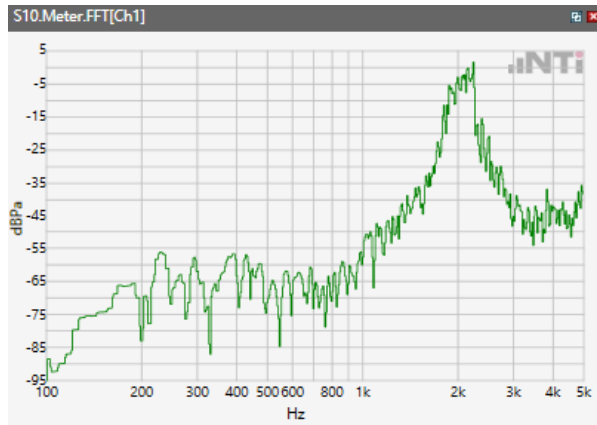
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



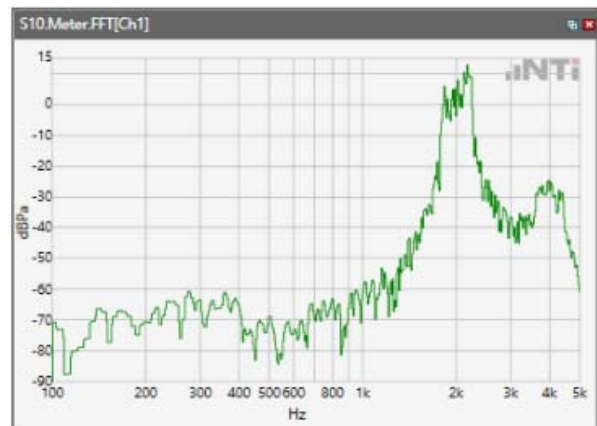
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



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

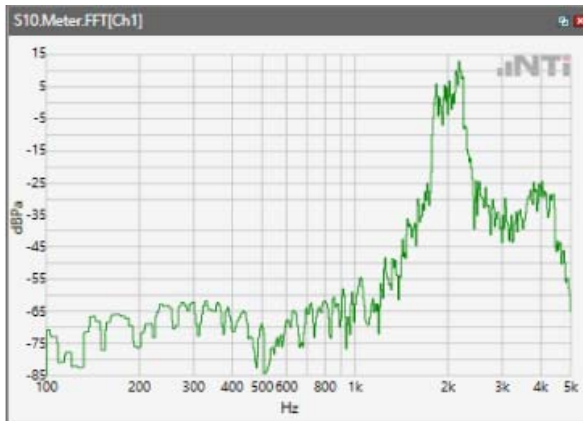


## ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2

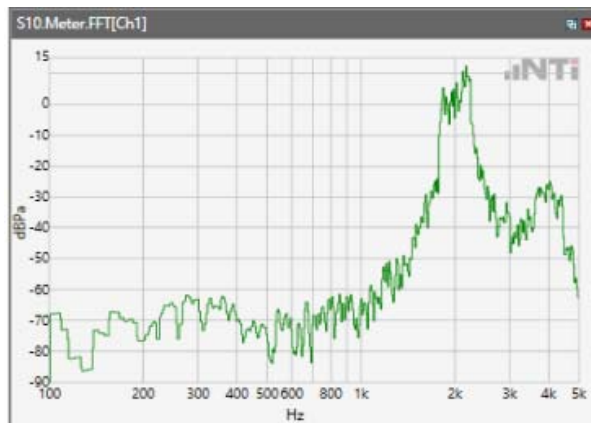




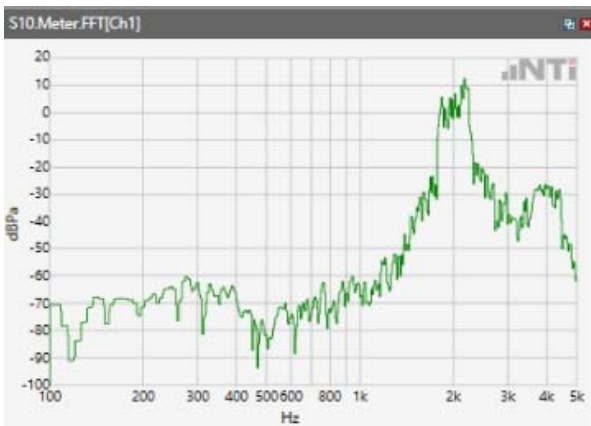
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



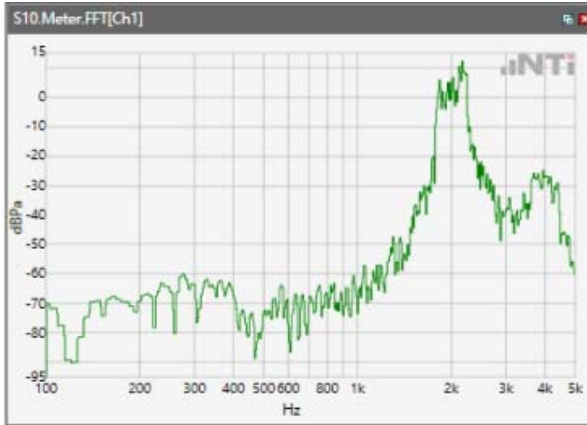
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



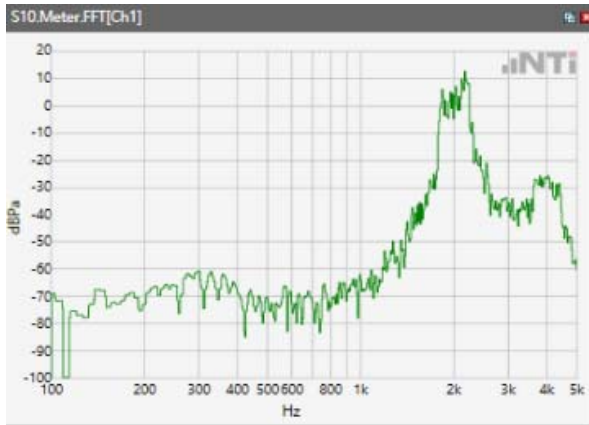
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



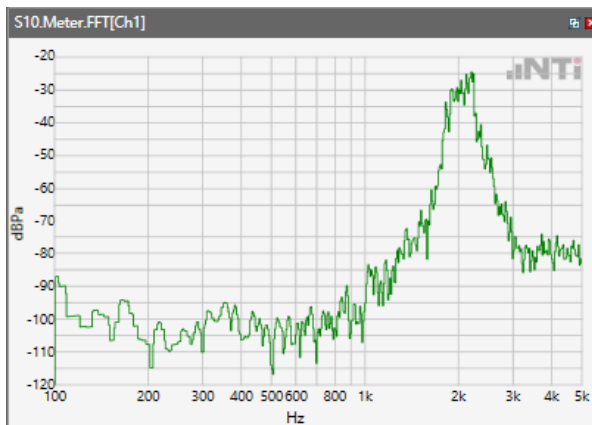
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



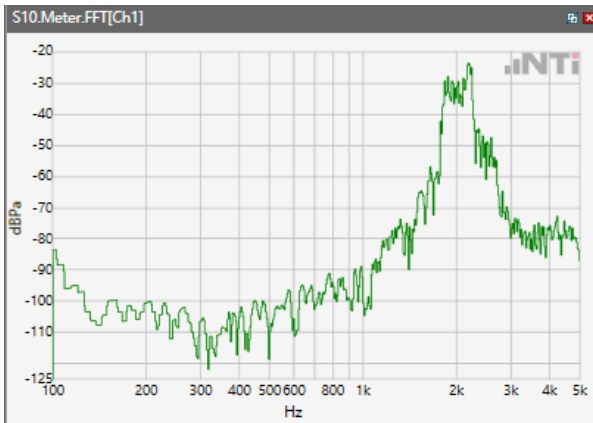
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\ LTE Band 13



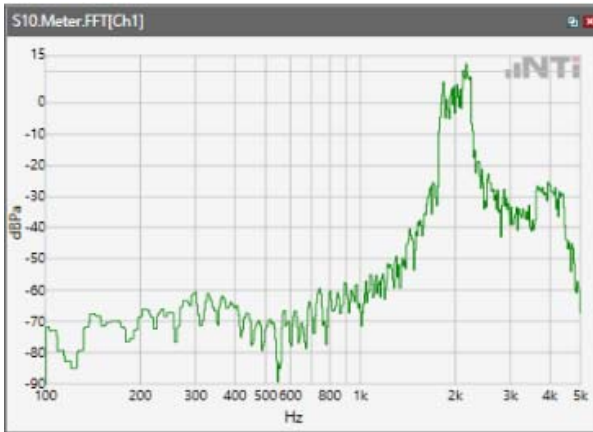
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



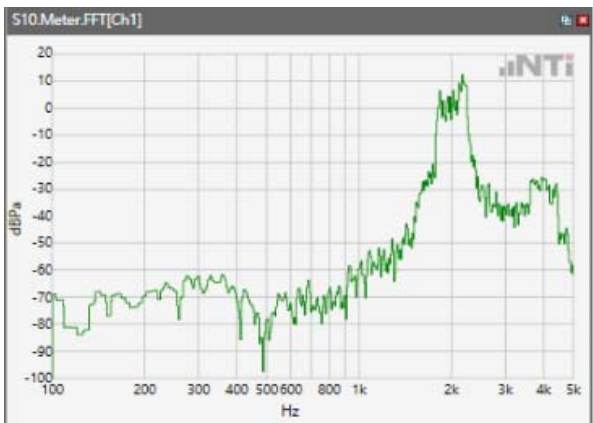
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



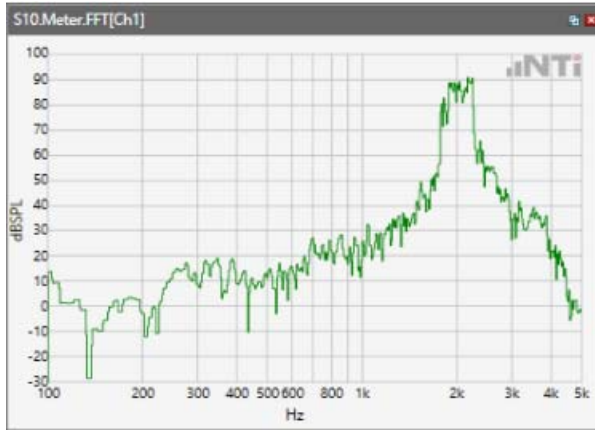
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



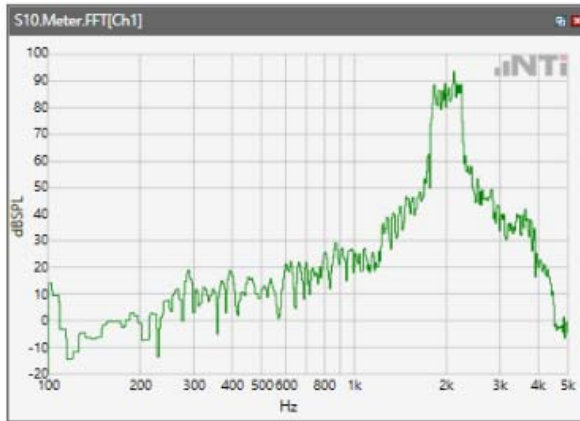
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



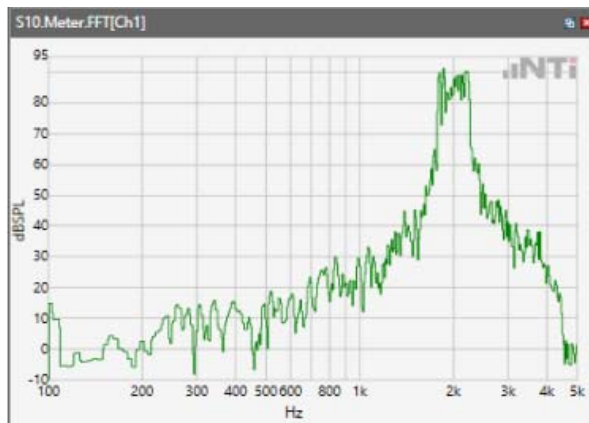
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



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



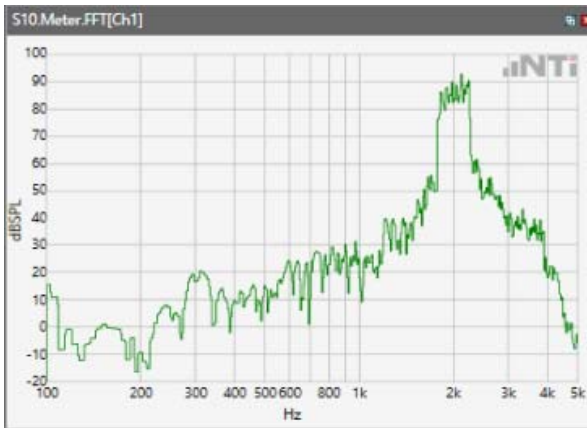
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN 5.3 GHz



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

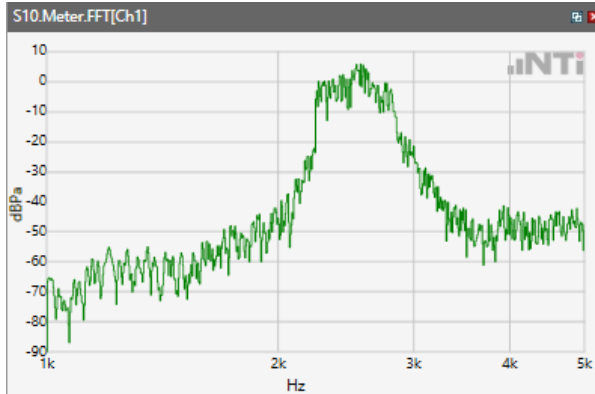


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

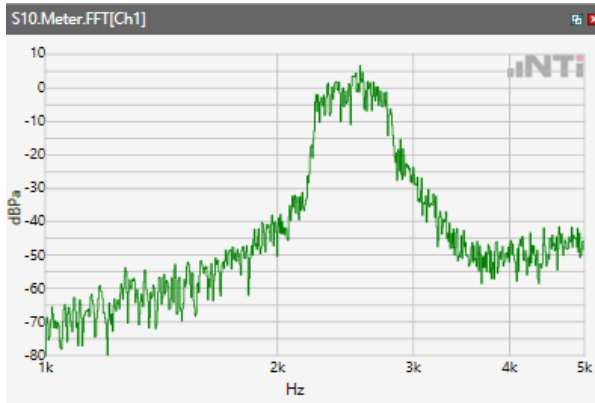


## Receive path - distortion and noise 2500Hz WB&NB

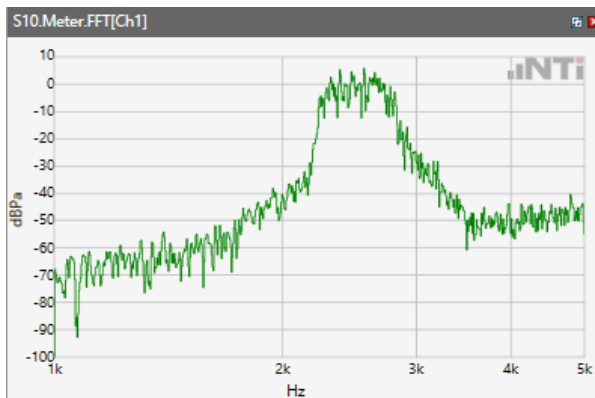
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



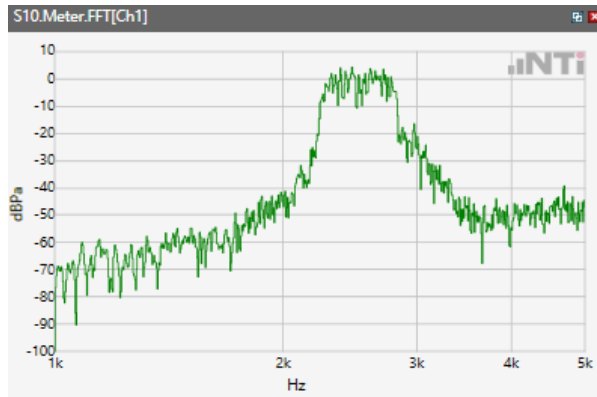
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



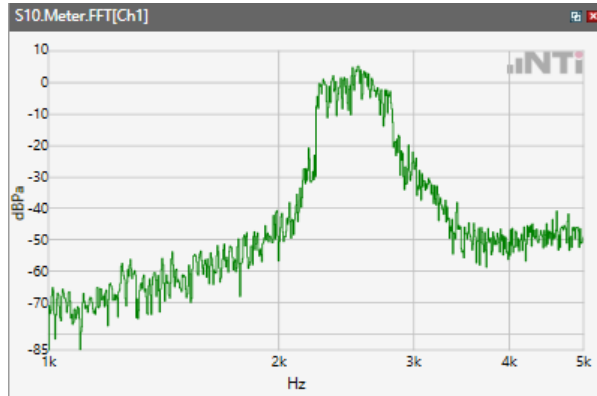
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



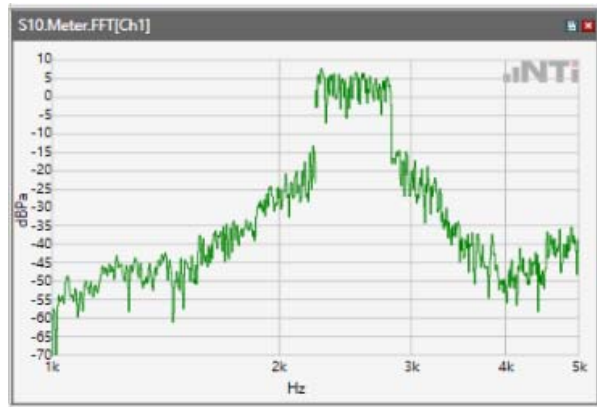
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



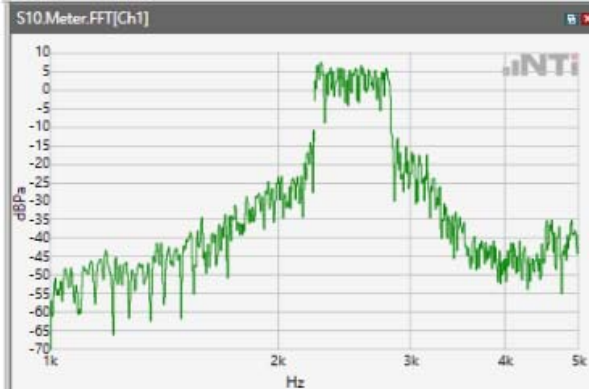
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



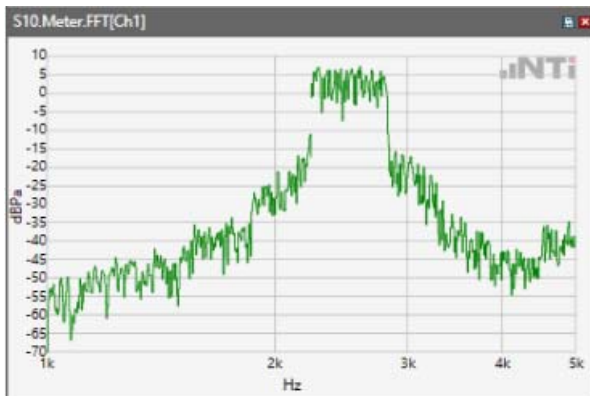
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



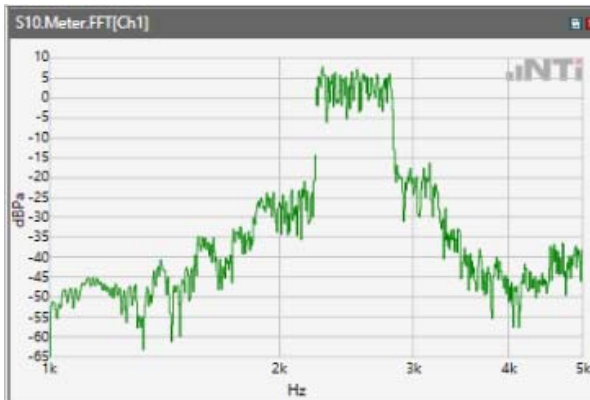
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



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

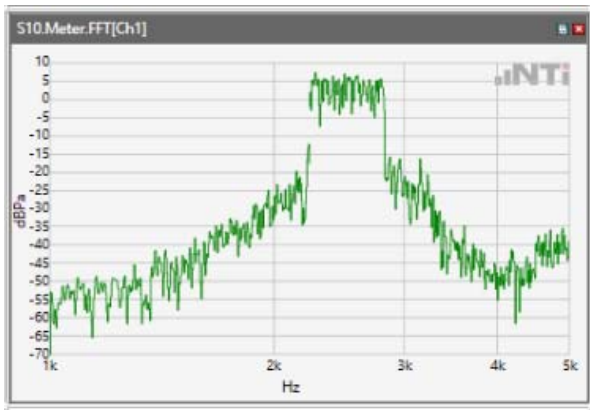


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 7

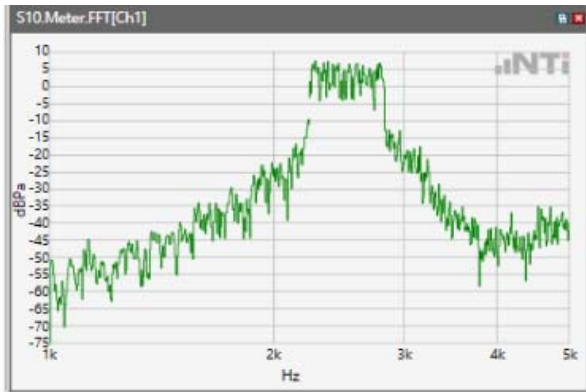




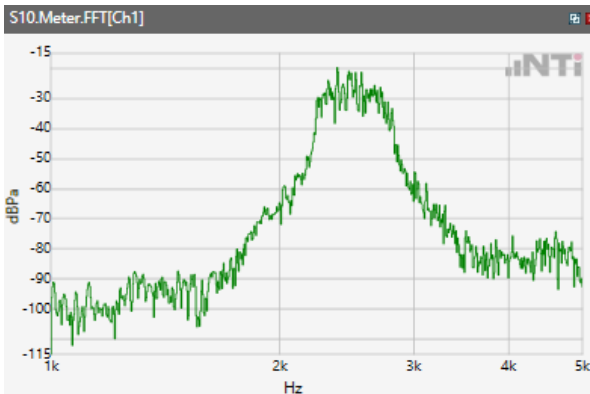
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



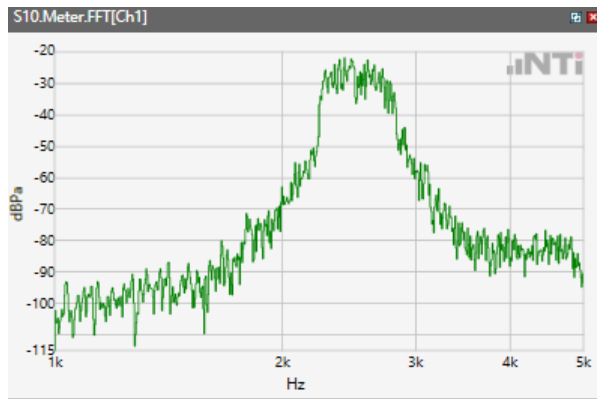
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13



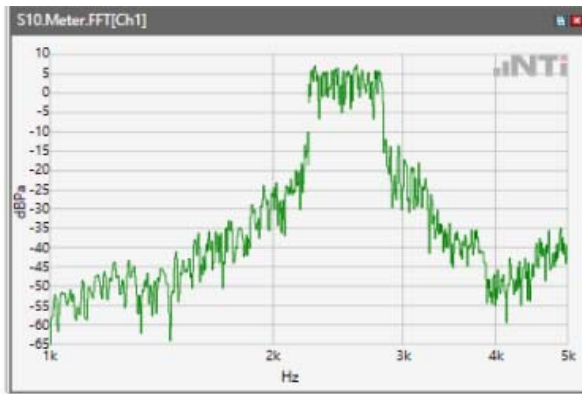
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17



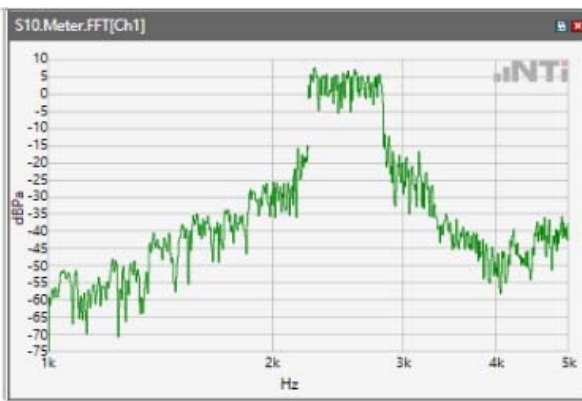
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



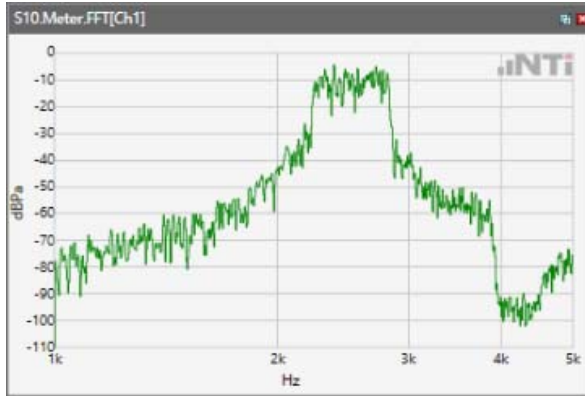
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



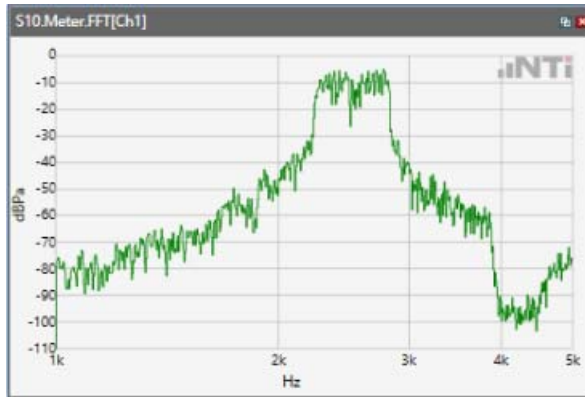
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



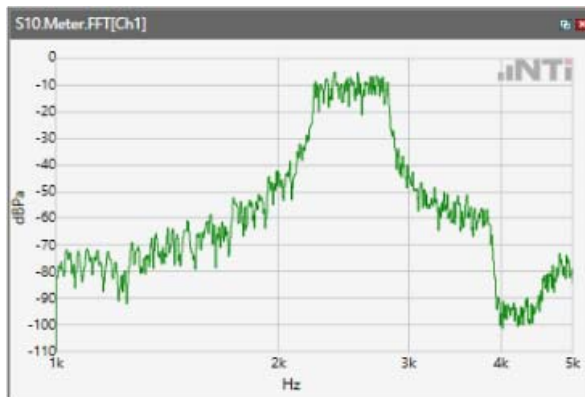
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



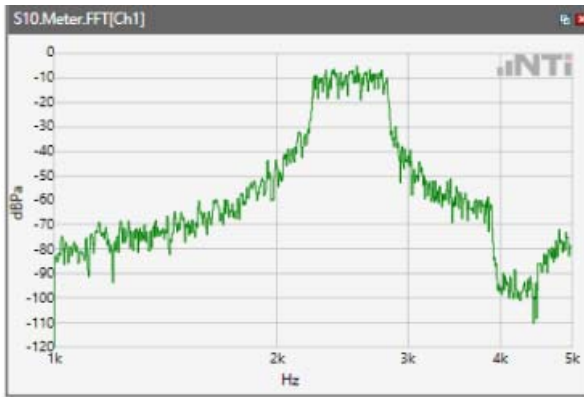
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



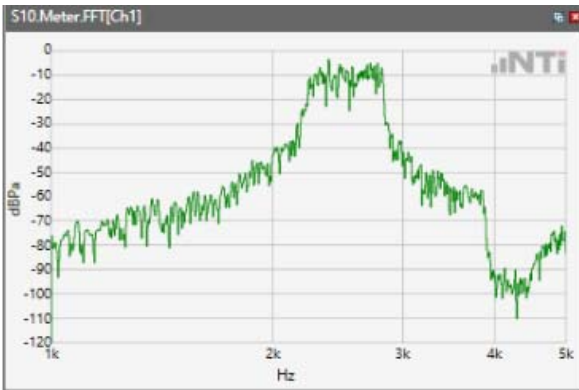
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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

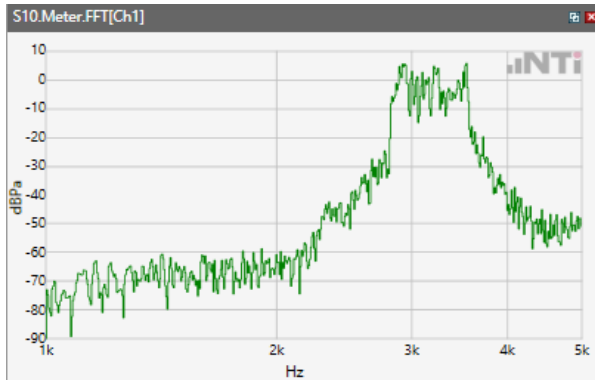


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8 GHz

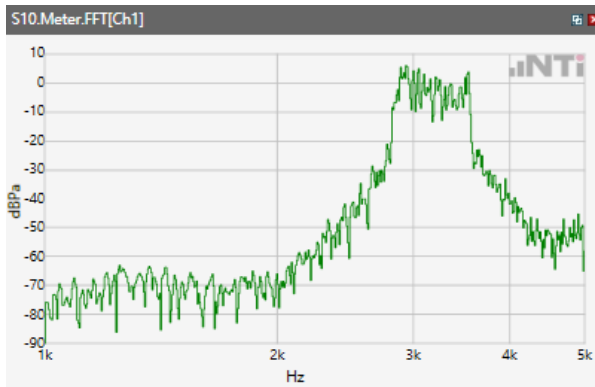


## Receive path - distortion and noise 3150Hz WB&NB

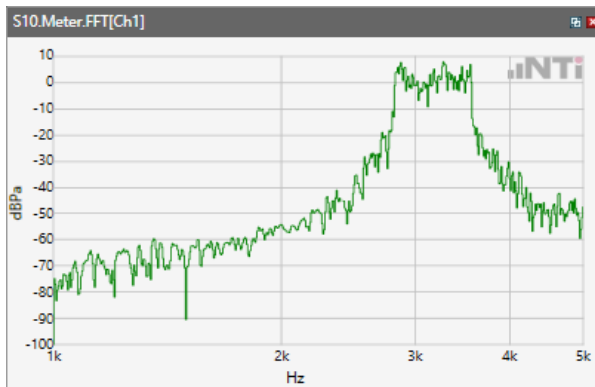
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 850



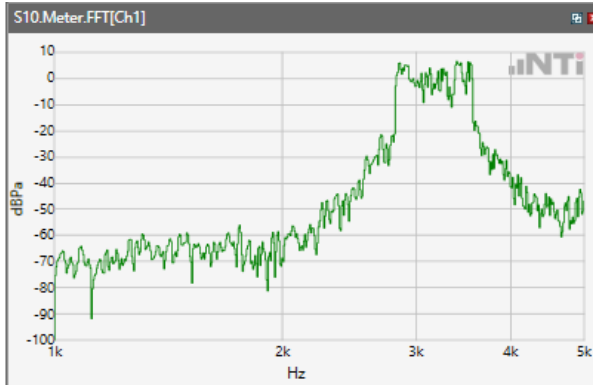
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\GSM 1900



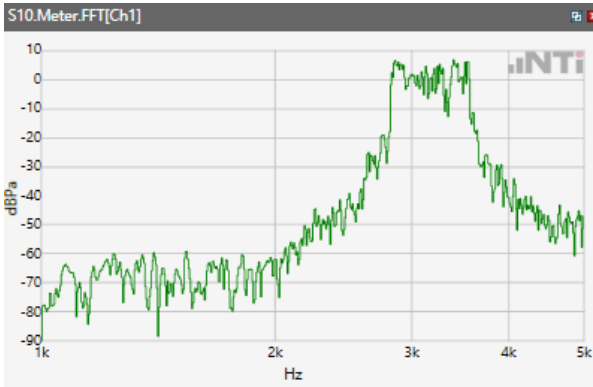
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



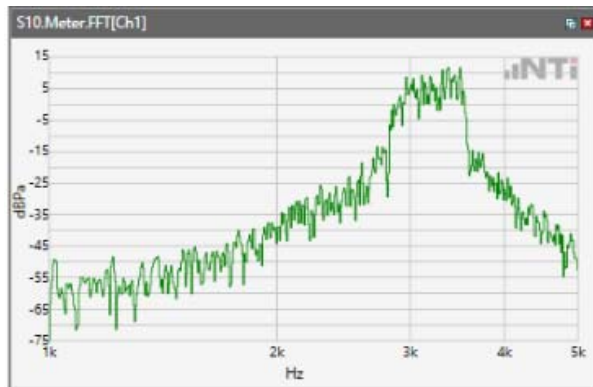
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



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



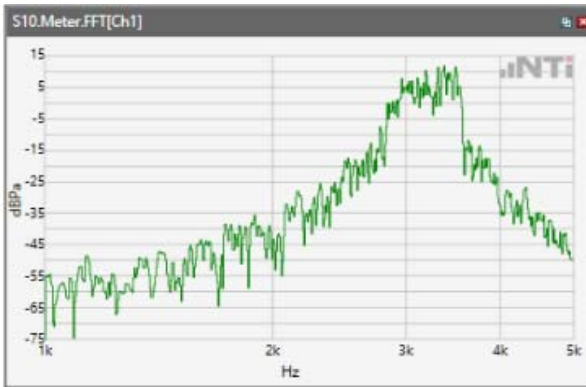
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



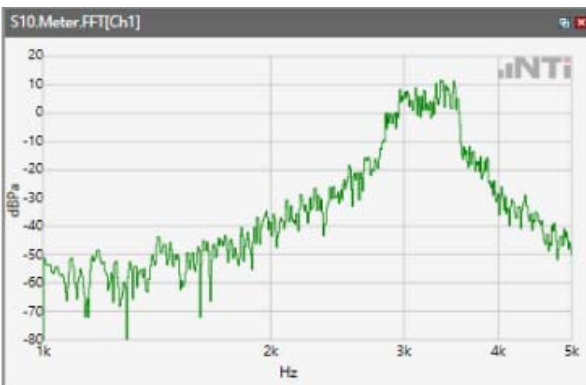
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 4



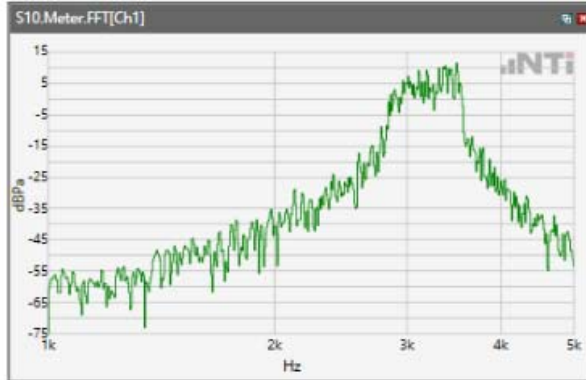
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 5



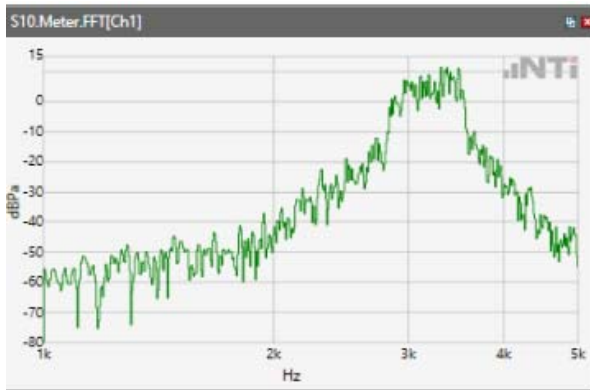
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 7



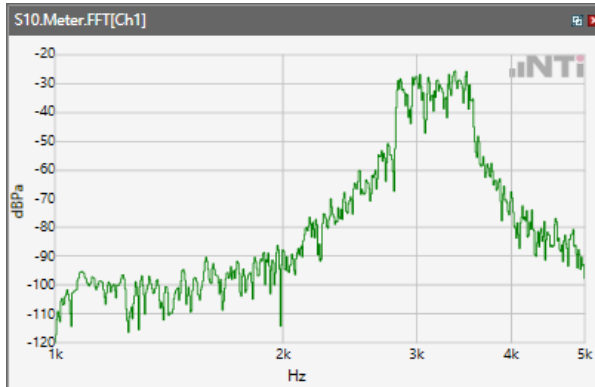
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13

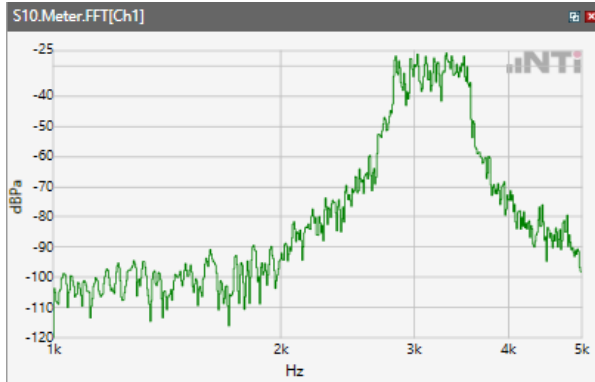


ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17





ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



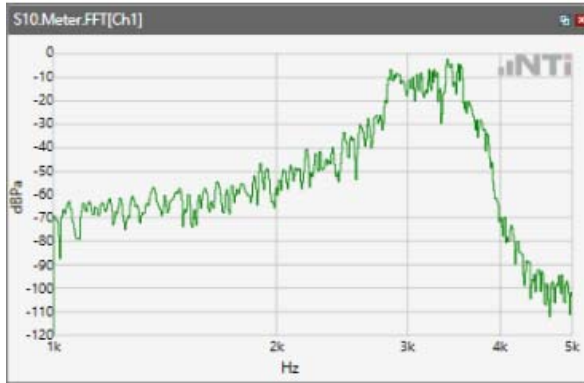
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



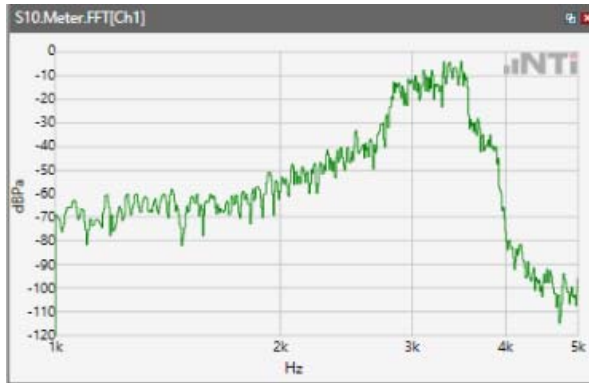
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



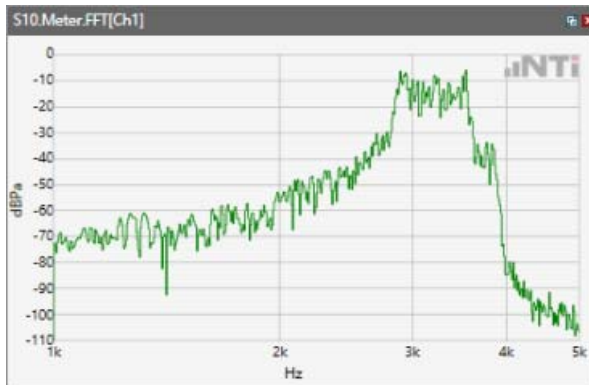
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
2.4GHz



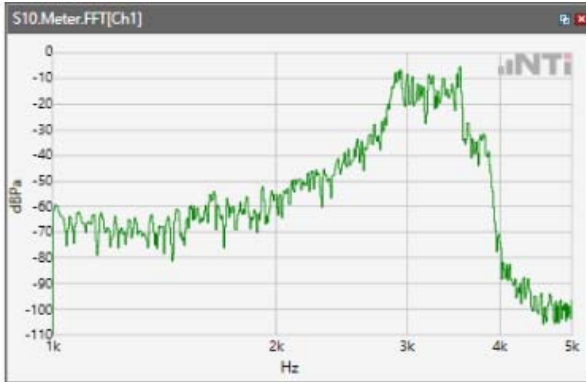
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.2 GHz



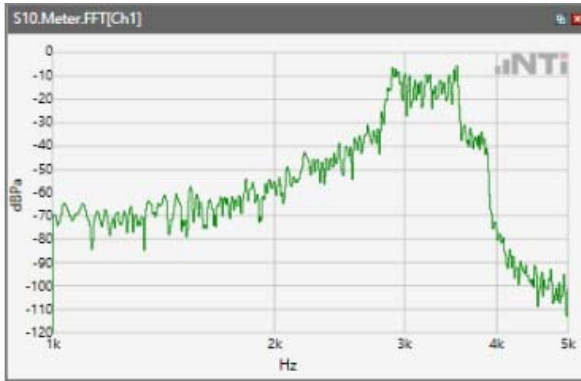
ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.3 GHz



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



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

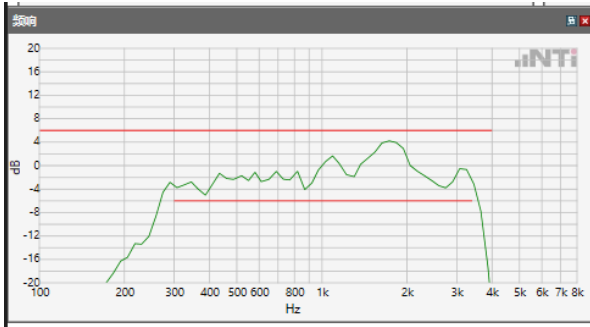


## **5.2 Receive path – distortion and noise**

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 \ NB 12.2kbps\GSM 850



Absolute minimal distance

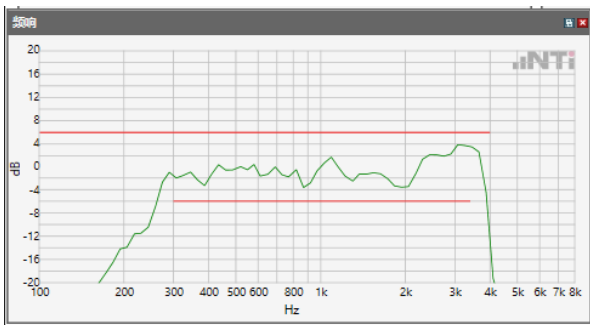
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

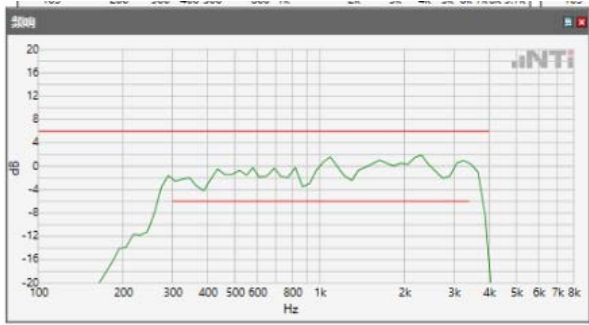
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

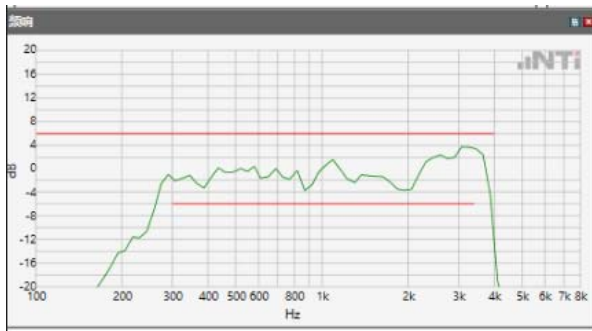
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

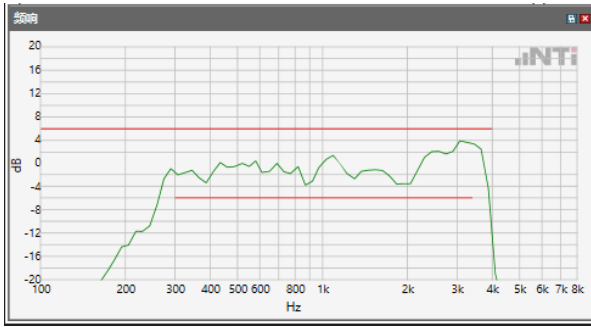
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

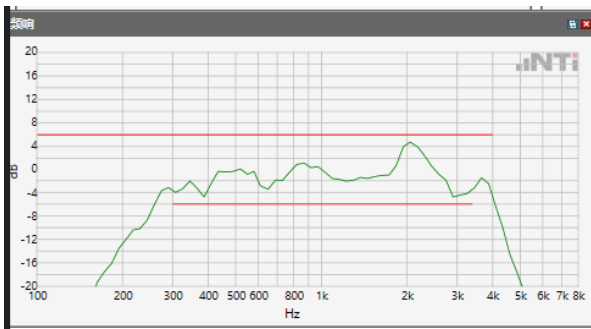
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

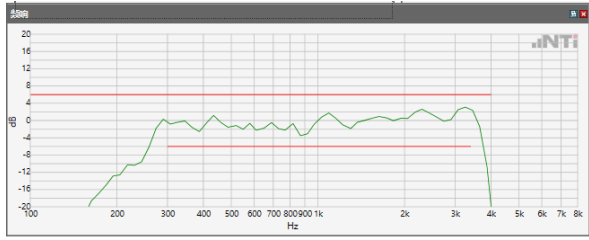
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 4



Absolute minimal distance

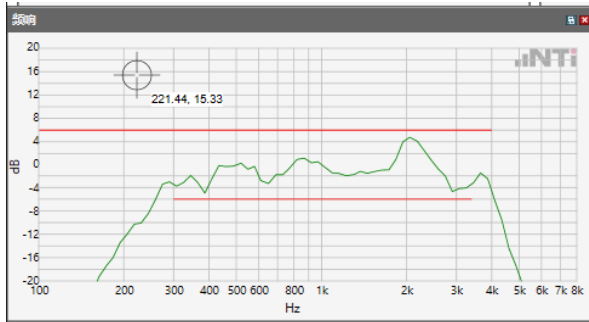
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

OK

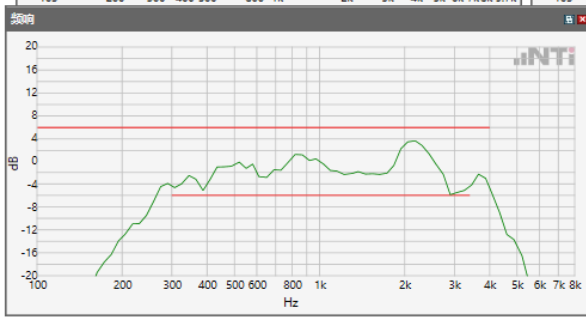
OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance



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



Absolute minimal distance

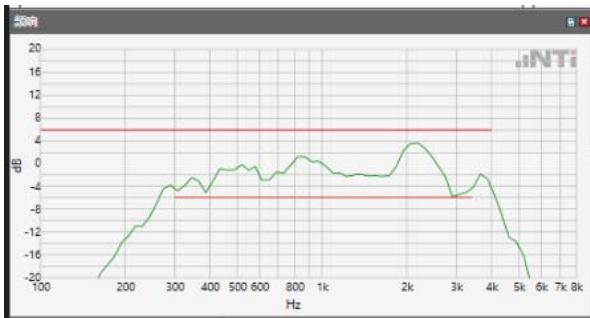
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

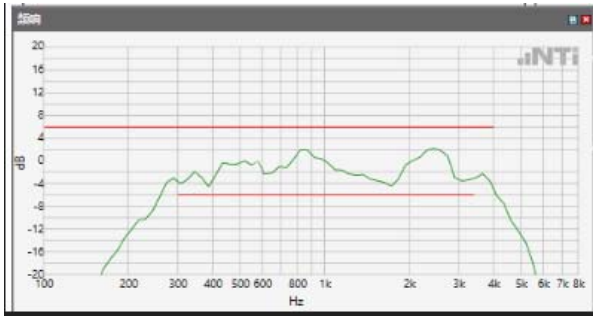
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 13



Absolute minimal distance

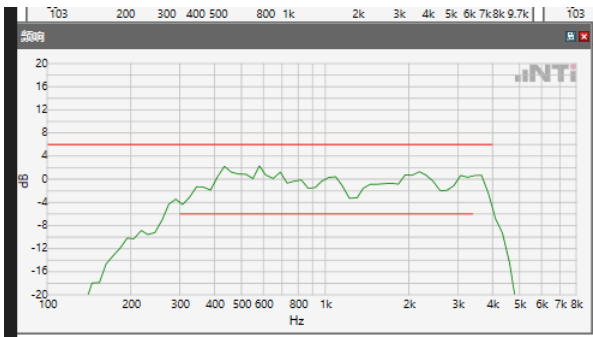
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 17



Absolute minimal distance

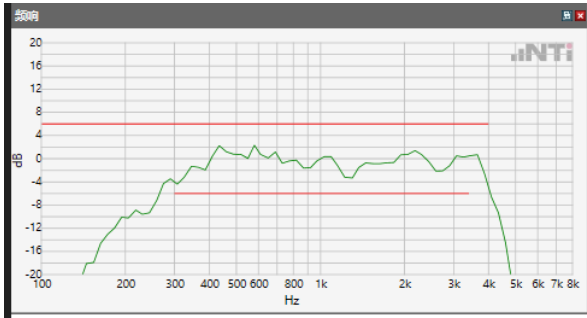
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\ LTE Band 25



Absolute minimal distance

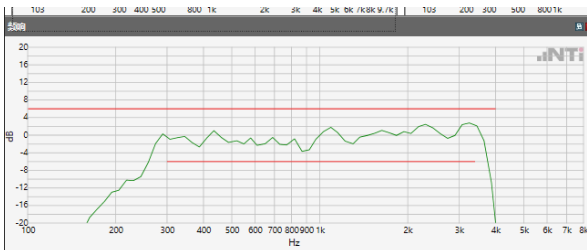
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

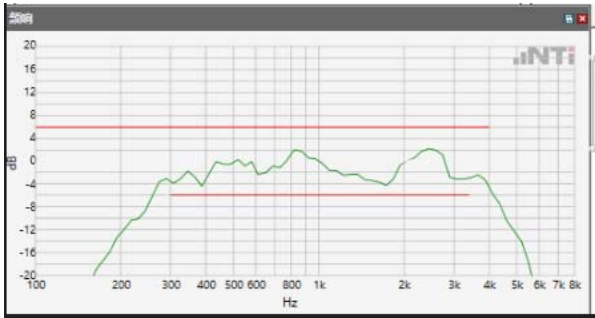
OK

OK

Limits

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

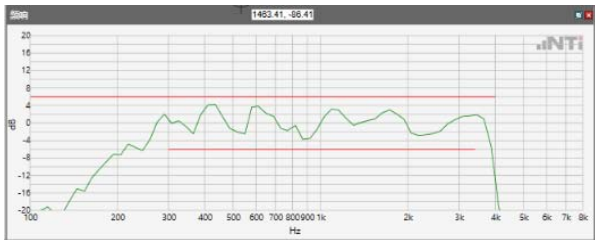
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

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



Absolute minimal distance

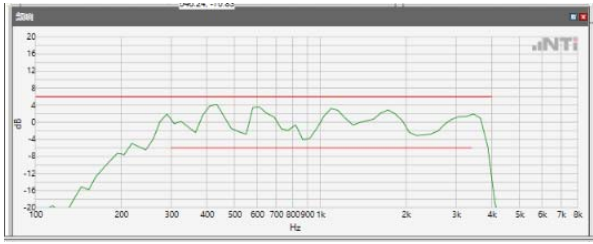
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.2GHz



Absolute minimal distance

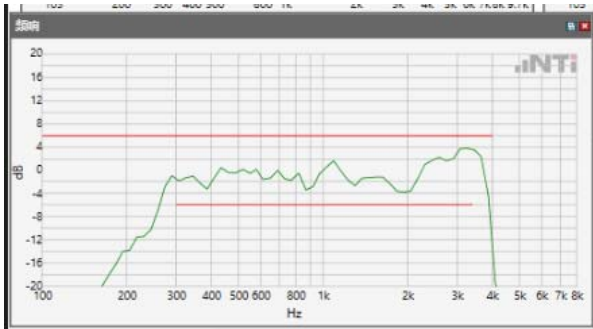
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.3GHz



Absolute minimal distance

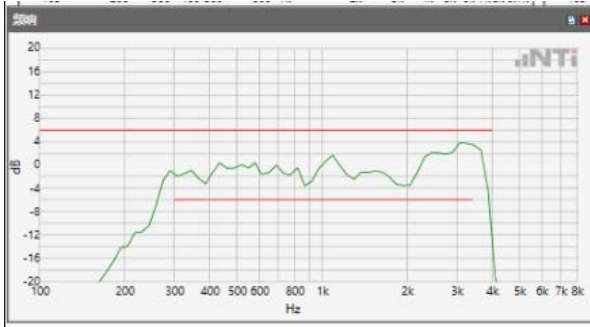
OK

OK

**Limits**

	<b>lower</b>
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.5GHz



Absolute minimal distance

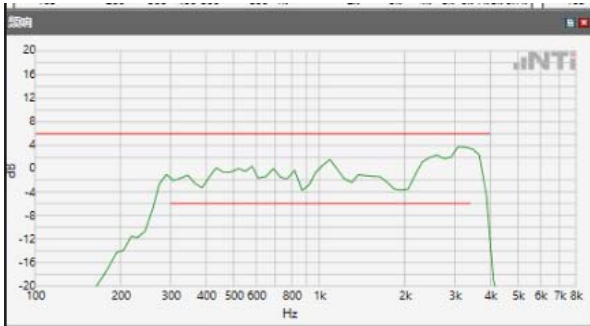
OK

OK

**Limits**

	lower
Run 1	Fit into tolerance

ANSI/TIA 5050-2018 \ 8N HAC OFF \ NB 12.2kbps\WLAN 5.8GHz



Absolute minimal distance

OK

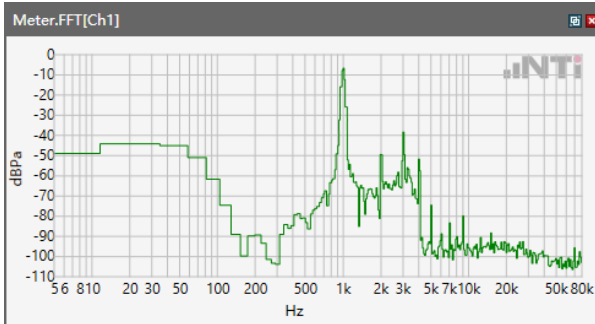
OK

**Limits**

	lower
Run 1	Fit into tolerance

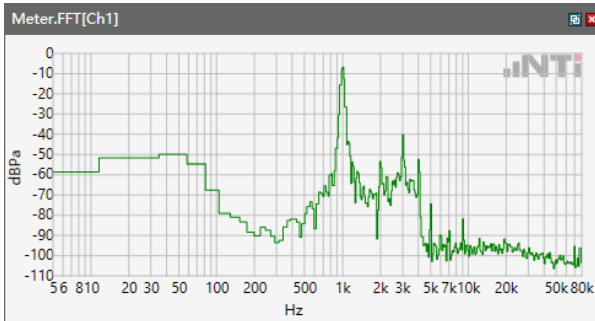
## 5.1 Receive Volume Control Performance 8N---WB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \GSM 850



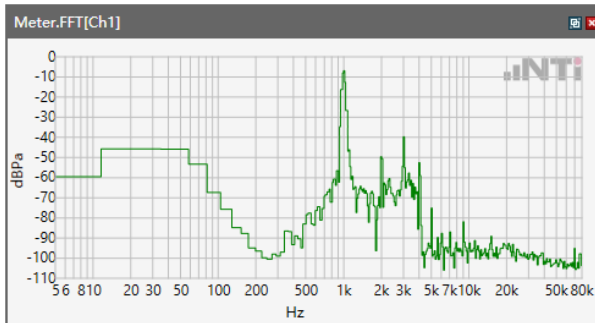
Speech Level RCV: 88.73 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \GSM 1900



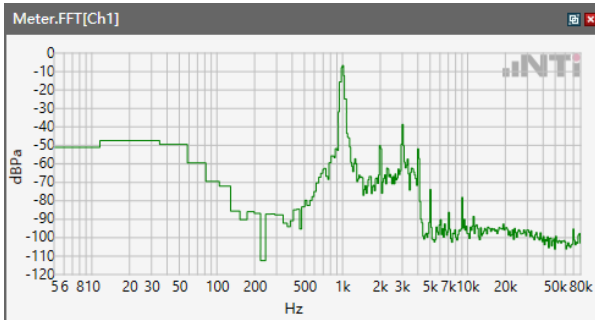
Speech Level RCV: 89.38 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \WCDMA Band II



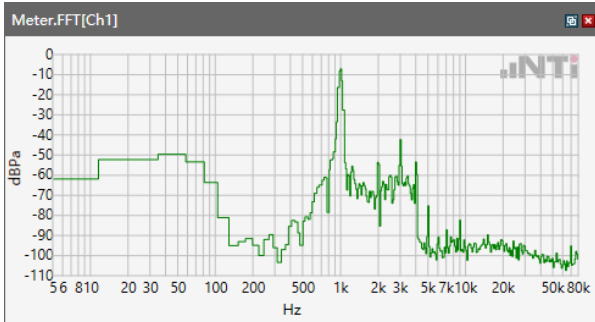
Speech Level RCV: 89.4 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \WCDMA Band IV



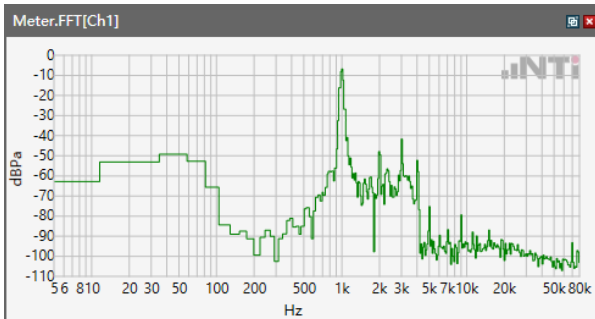
Speech Level RCV: 89.31 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \WCDMA Band V



Speech Level RCV: 89.18 dB[SPL]

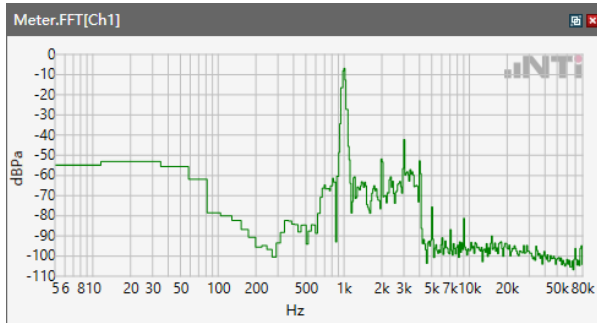
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \LTE Band 2



Speech Level RCV: 89.33 dB[SPL]

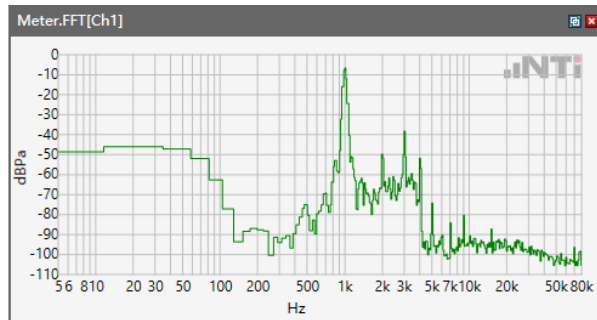


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 4



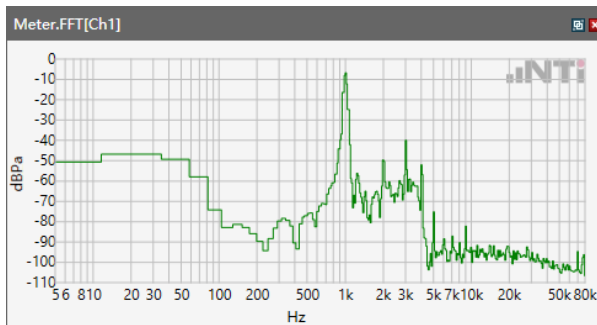
Speech Level RCV: 89.42 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 5



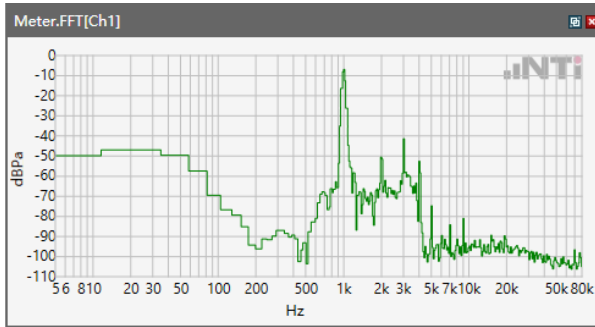
Speech Level RCV: 88.95 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 7



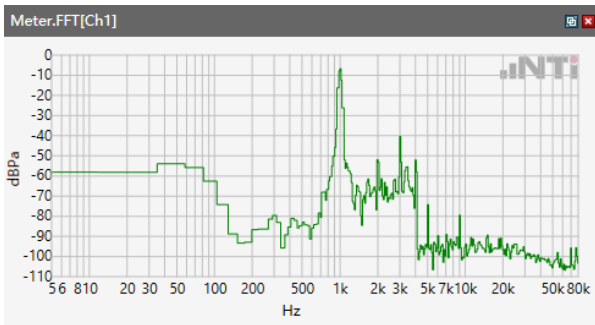
Speech Level RCV: 89.29 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 12



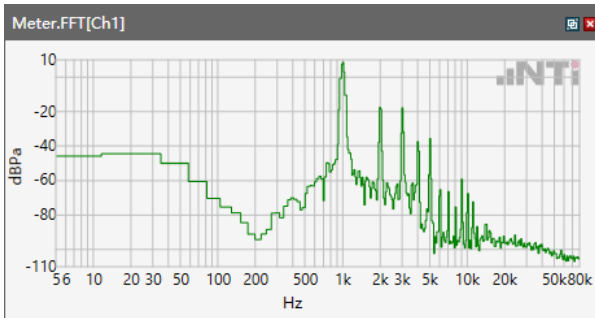
Speech Level RCV: 89.18 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 13



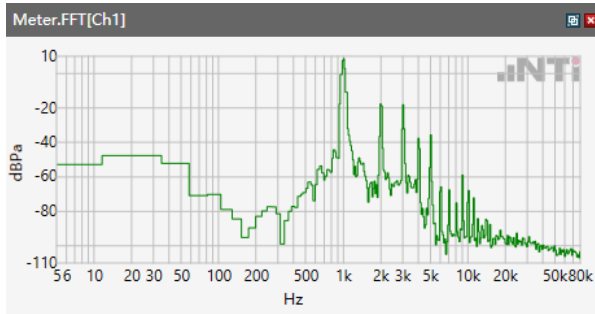
Speech Level RCV: 89.1 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 17



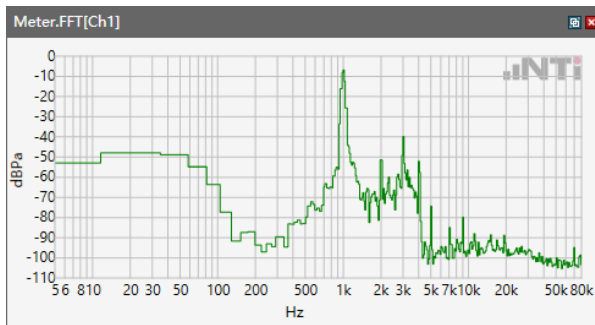
Speech Level RCV: 89.04 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 25



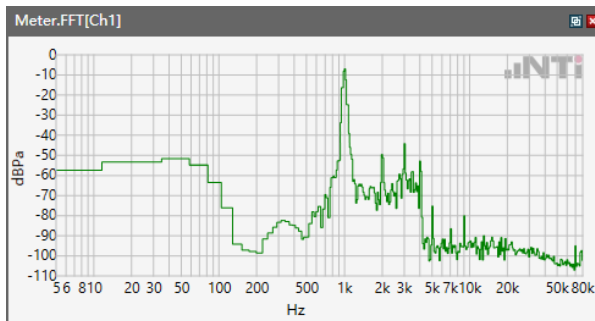
Speech Level RCV: 89.18 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 66



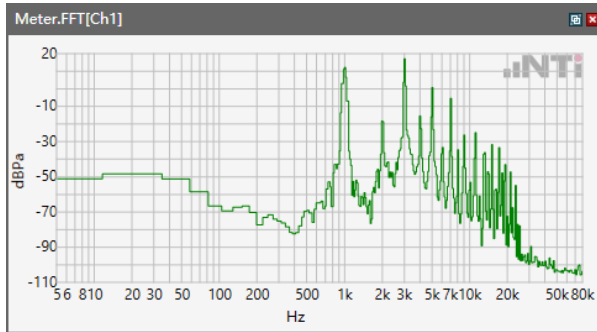
Speech Level RCV: 89.37 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ LTE Band 71



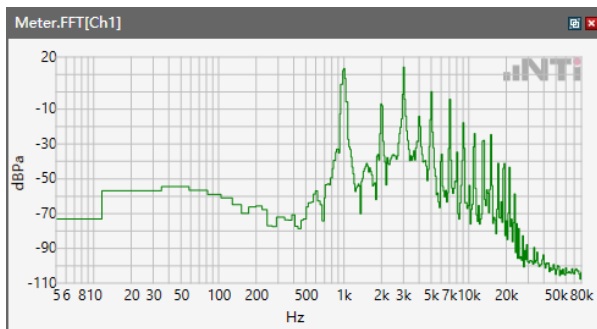
Speech Level RCV: 87.02 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ WLAN 2.4GHz



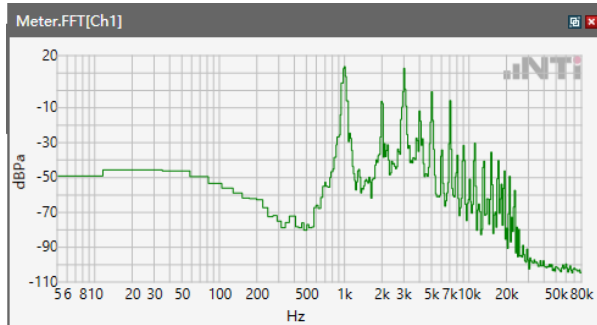
Speech Level RCV: 108.4 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ WLAN 5.2GHz



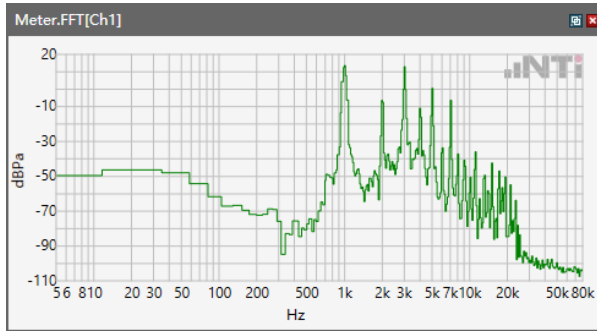
Speech Level RCV: 109.3 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ WLAN 5.3GHz



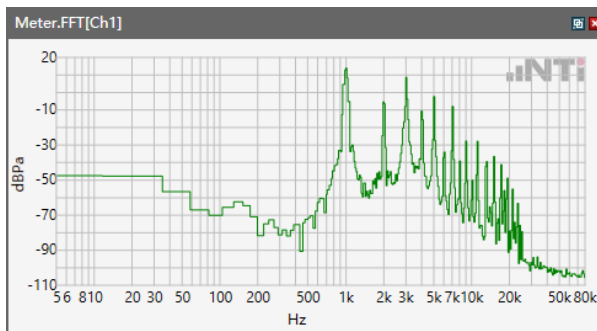
Speech Level RCV: 109.7 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ WLAN 5.5GHz



Speech Level RCV: 108.1 dB[SPL]

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ WLAN 5.8GHz



Speech Level RCV: 109.4 dB[SPL]

### **5.1.1 -1 Conversation Gain 8N**

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\GSM 850

#### **Correction**

rcv_vol_wb	88.73 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 18.73 dB OK

**Ok**

#### **Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\GSM 1900

#### **Correction**

rcv_vol_wb	89.38 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.38 dB OK

**Ok**

#### **Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\WCDMA Band II

**Correction**

rcv_vol_wb	89.4 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	--------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.4 dB OK

**Ok**

**Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\WCDMA Band IV

**Correction**

rcv_vol_wb	89.31 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.31 dB OK

**Ok**

**Limits**

	lower
Run 1	6.00 dB



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WCDMA Band V

**Correction**

rcv_vol_wb	89.18 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.18 dB OK

**Ok**

**Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\LTE Band 2

**Correction**

rcv_vol_wb	89.33 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.33 dB OK

**Ok**

**Limits**

	<b>lower</b>
Run 1	6.00 dB



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 4

**Correction**

rcv_vol_wb	89.42 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.42 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 5

**Correction**

rcv_vol_wb	88.95 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 18.95 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 7

**Correction**

rcv_vol_wb	89.29 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.29 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 12

**Correction**

rcv_vol_wb	89.18 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.18 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 13

**Correction**

rcv_vol_wb	89.1 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	--------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.1 dB OK

**Ok**

**Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 17

**Correction**

rcv_vol_wb	89.04 dB[SPL]	2024.04.03	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.04 dB OK

**Ok**

**Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 25

**Correction**

rcv_vol_wb	89.18 dB[SPL]	2024.04.03	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.18 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 66

**Correction**

rcv_vol_wb	89.37 dB[SPL]	2024.03.19	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 19.37 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ LTE Band 71

**Correction**

rcv_vol_wb	87.02 dB[SPL]	2024.03.22	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 17.02 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WLAN 2.4GHz

**Correction**

rcv_vol_wb	108.4 dB[SPL]	2024.03.26	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 38.4 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WLAN 5.2GHz

**Correction**

rcv_vol_wb	109.3 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 39.3 dB OK

**Ok**

**Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WLAN 5.3GHz

**Correction**

rcv_vol_wb	109.7 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 39.7 dB OK

**Ok**

**Limits**

	<b>lower</b>
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WLAN 5.5GHz

**Correction**

rcv_vol_wb	108.1 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

Calculated Value: 38.1 dB OK

**Ok****Limits**

	lower
Run 1	6.00 dB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ WLAN 5.8GHz

**Correction**

rcv_vol_wb	109.4 dB[SPL]	2024.03.27	Measured	5.1 Receive Volume Control Performance 8N
------------	---------------	------------	----------	---

rcv\_vol\_wb-70

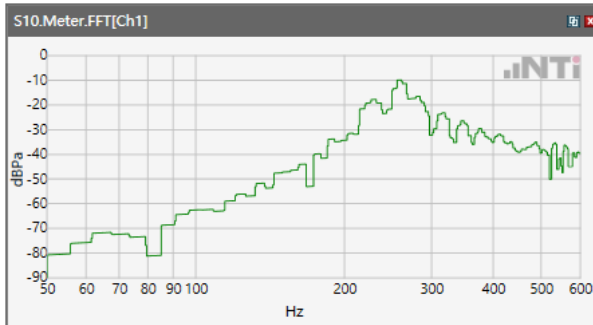
Calculated Value: 39.4 dB OK

**Ok****Limits**

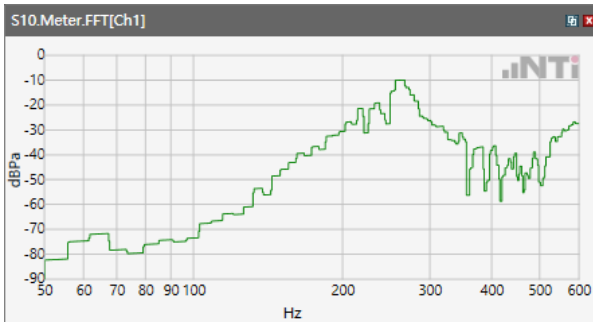
	lower
Run 1	6.00 dB

## Receive path - distortion and noise 250 WB only

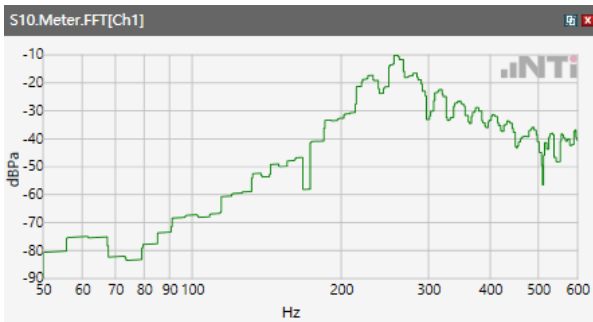
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 850



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 1900

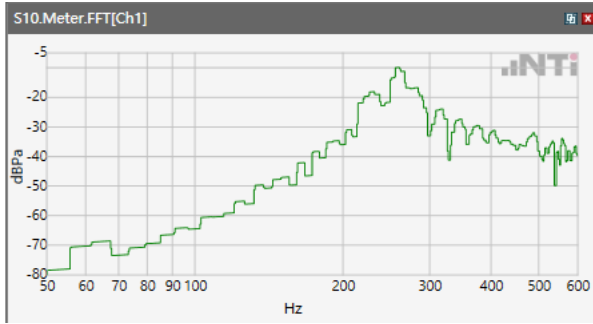


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II

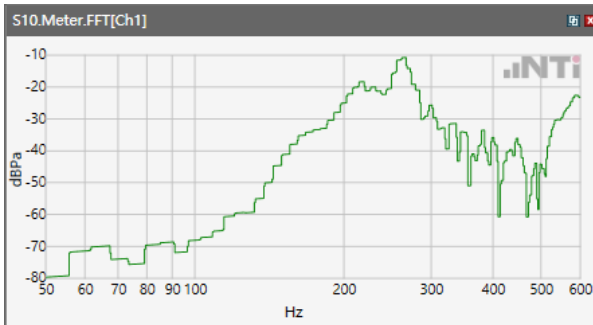




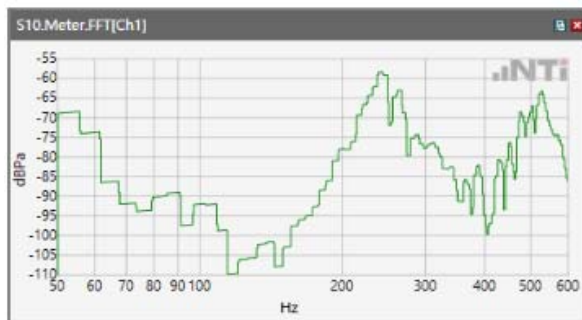
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



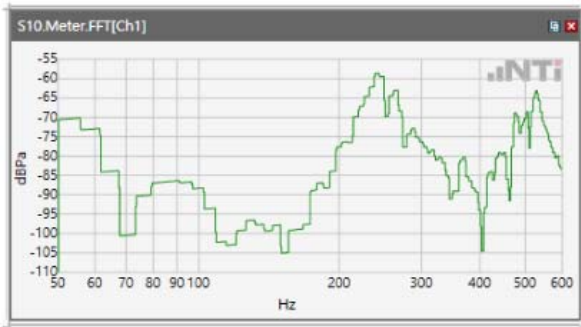
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



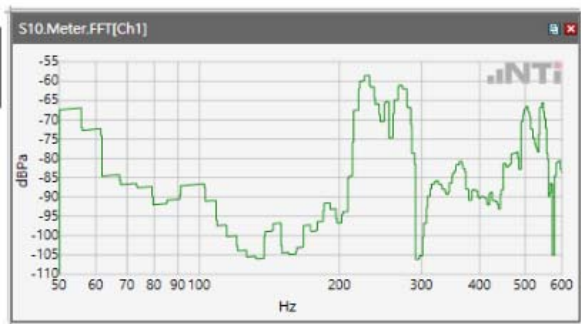
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



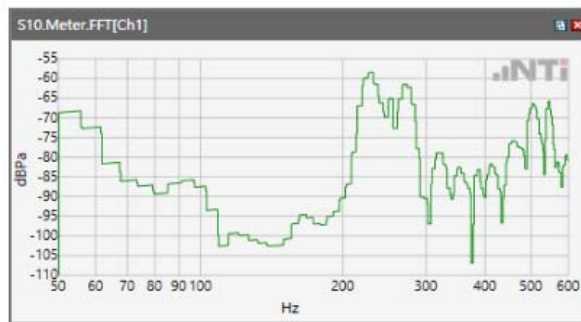
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



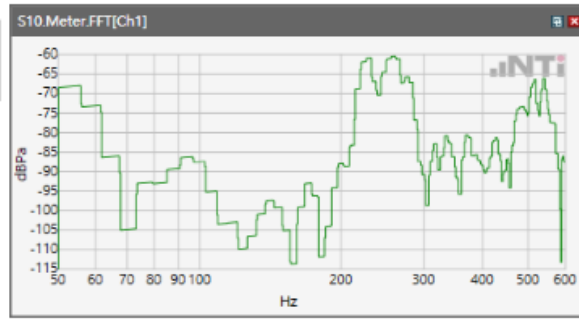
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



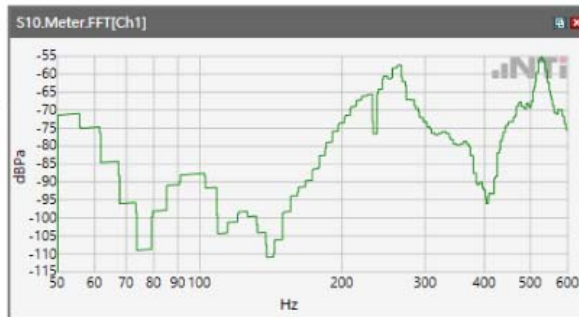
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



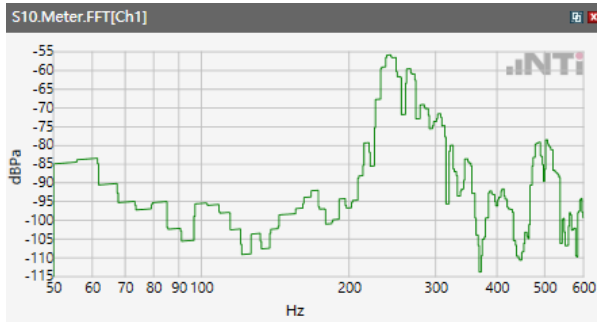
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



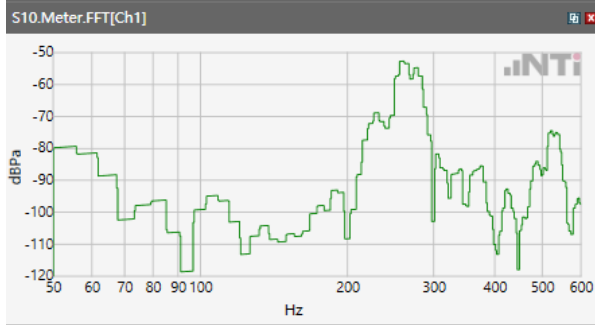
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 13



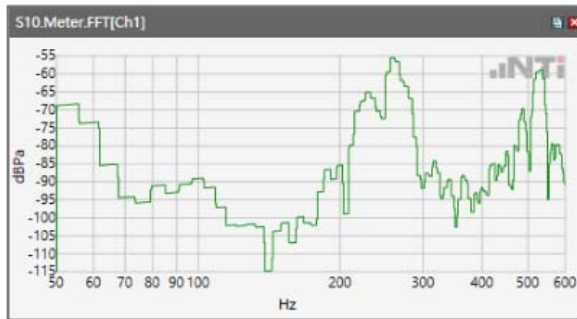
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 17



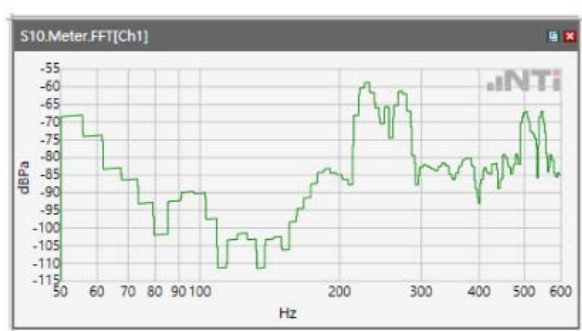
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 25



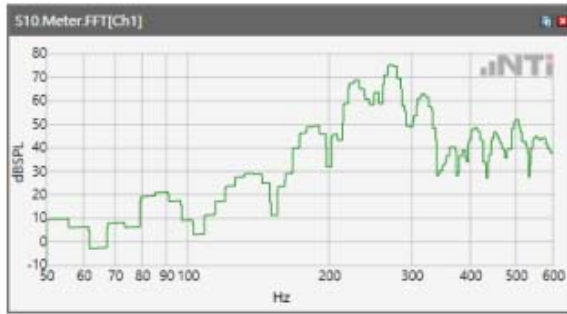
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 66



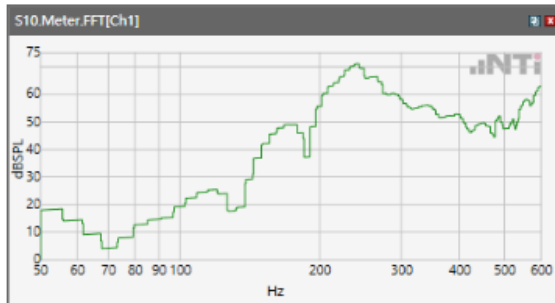
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 71



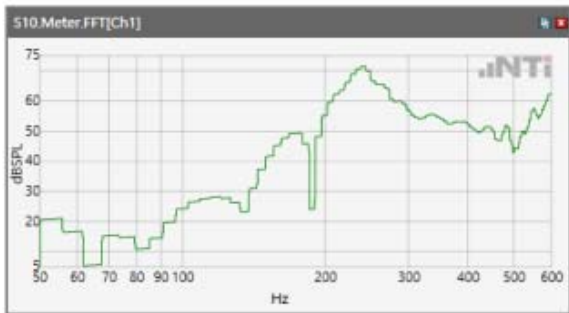
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



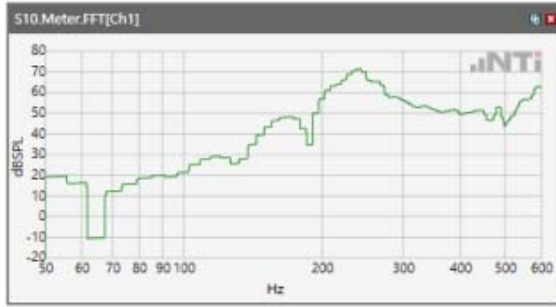
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.2GHz



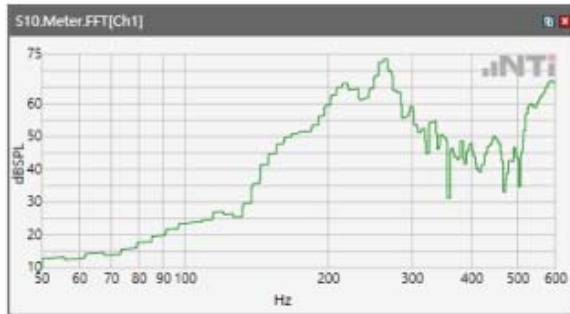
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.3GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.5GHz

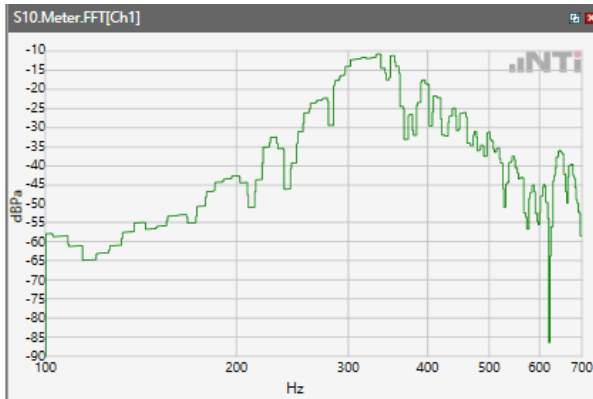


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.8GHz

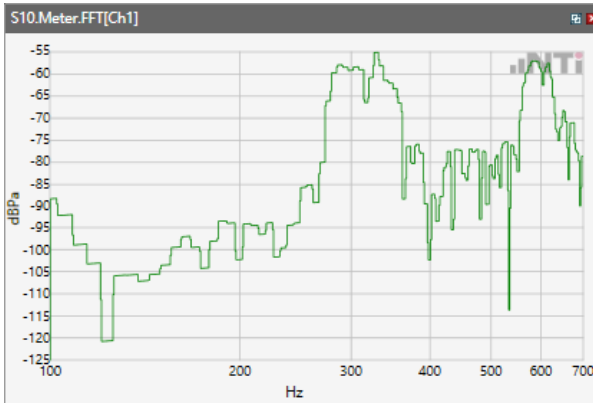


## Receive path - distortion and noise 315Hz WB only

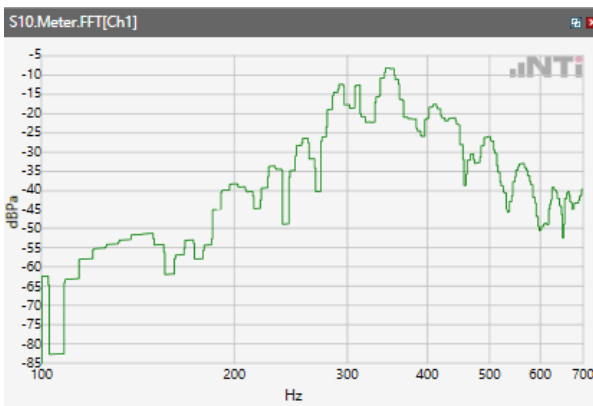
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 850



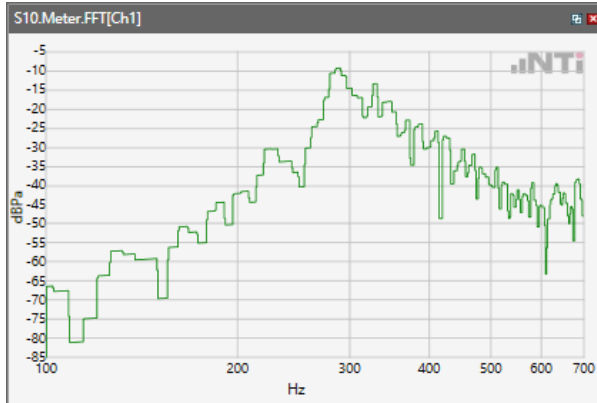
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



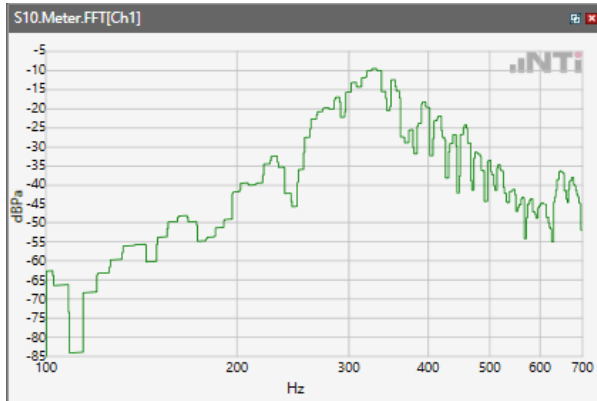
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



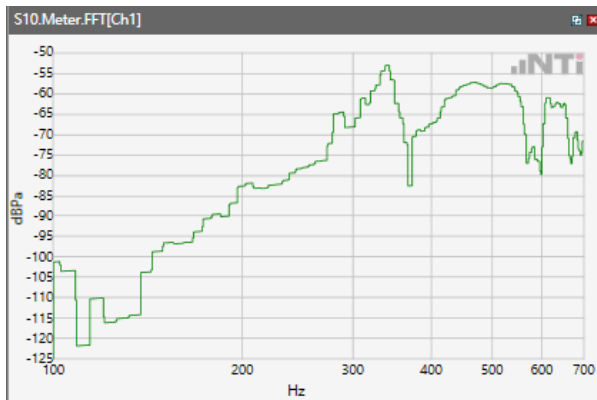
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V

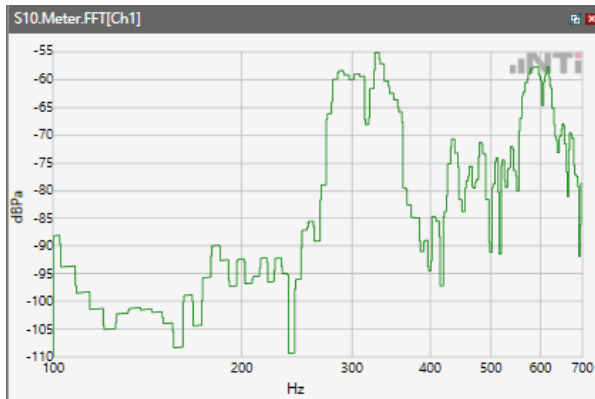


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2

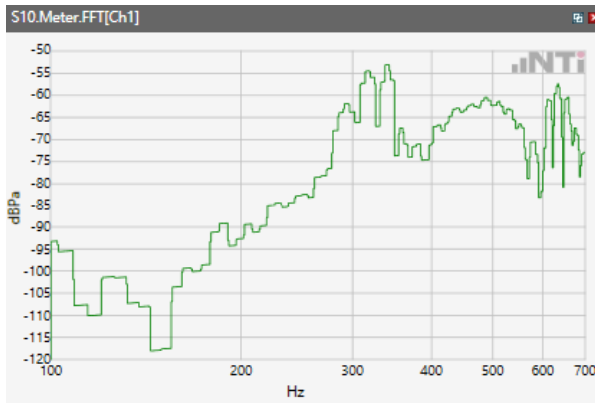




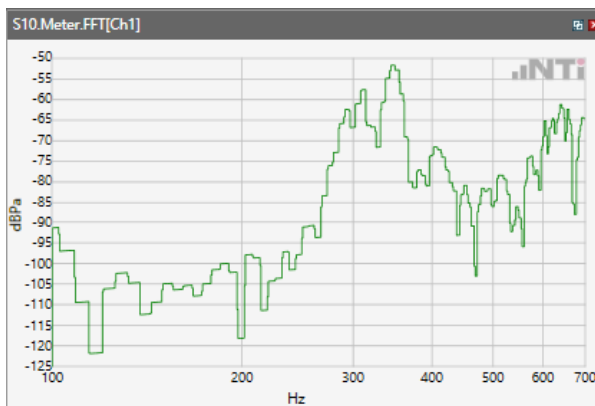
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



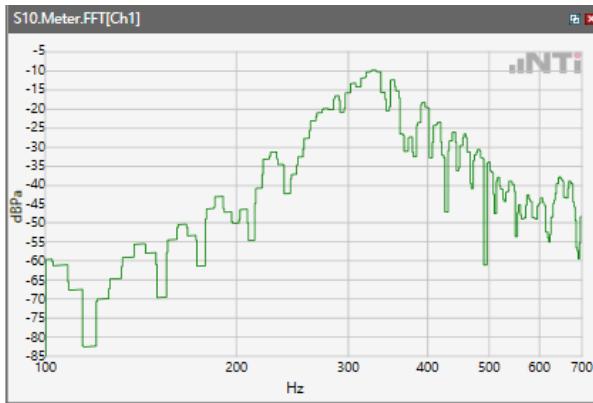
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



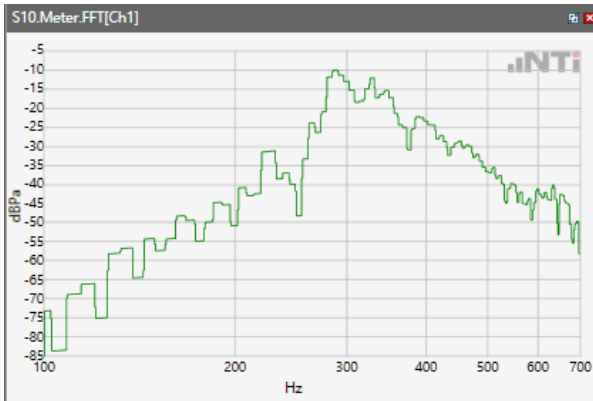
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



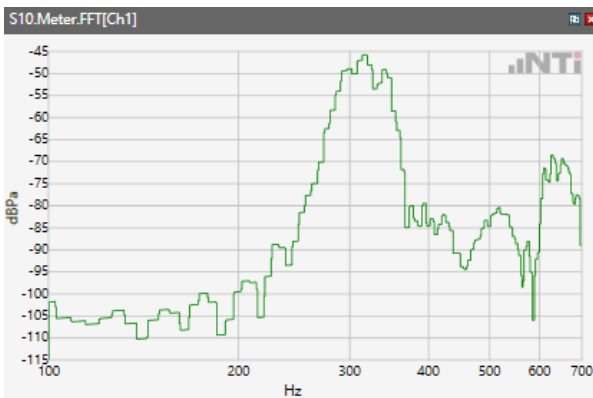
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



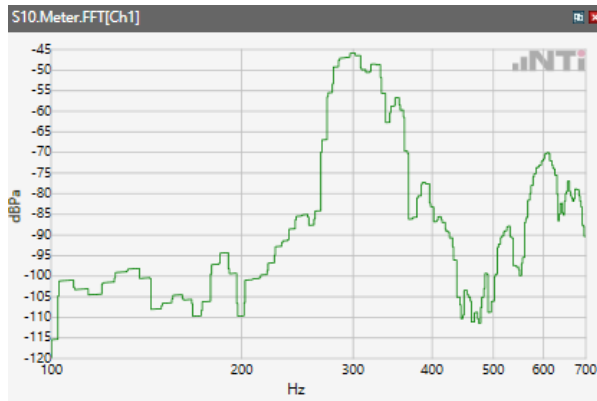
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13



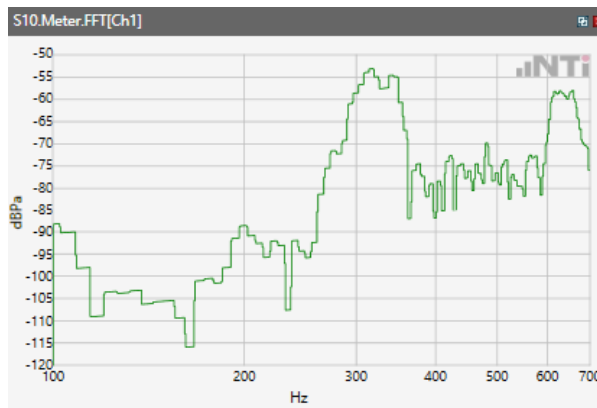
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17



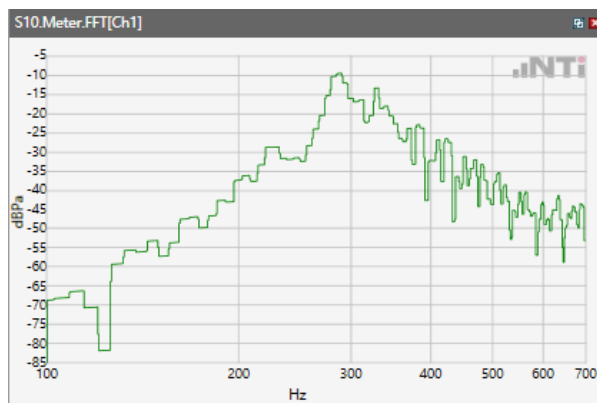
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 25



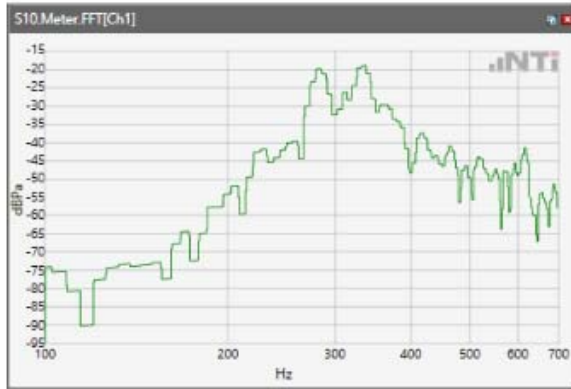
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 66



## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 71



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 2.4GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.2GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.3GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.5GHz

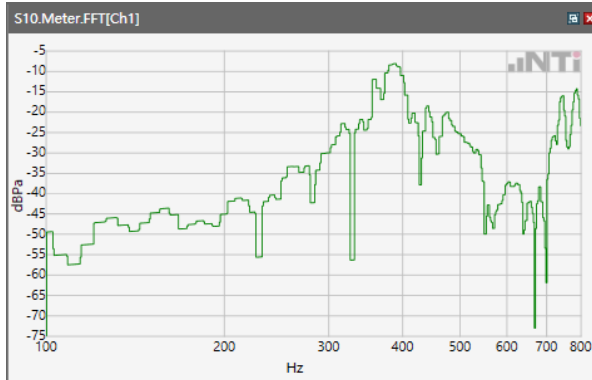


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN  
5.8GHz

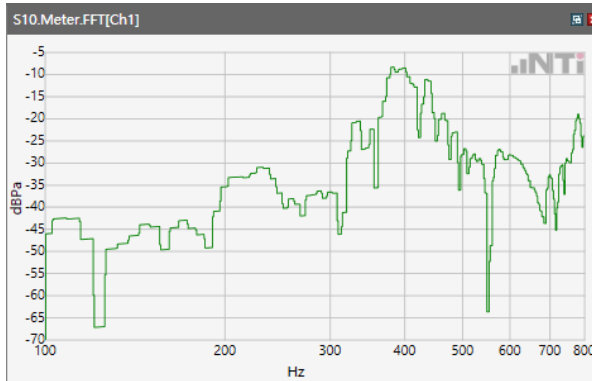


## Receive path - distortion and noise 400Hz WB&NB

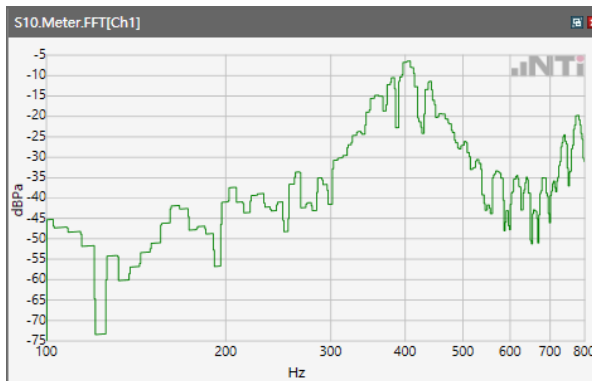
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 850



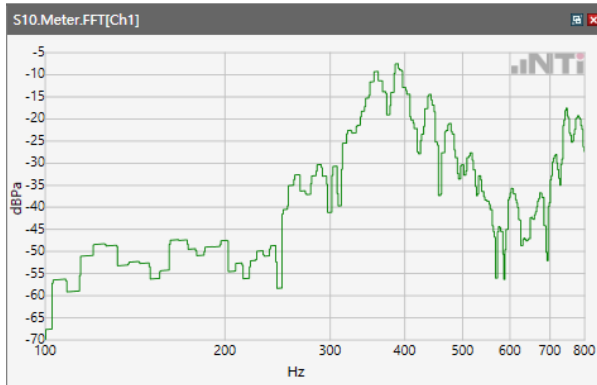
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



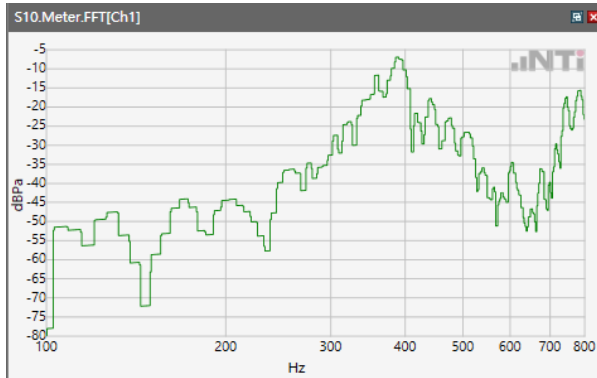
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



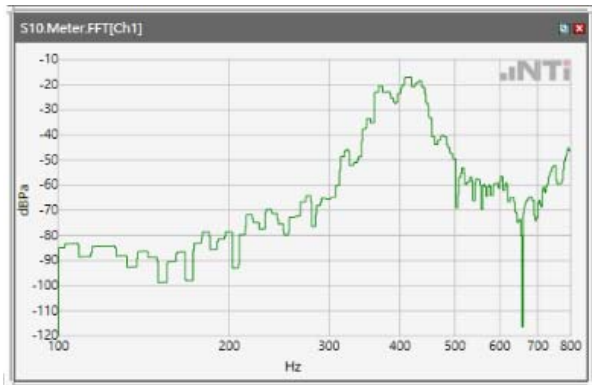
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



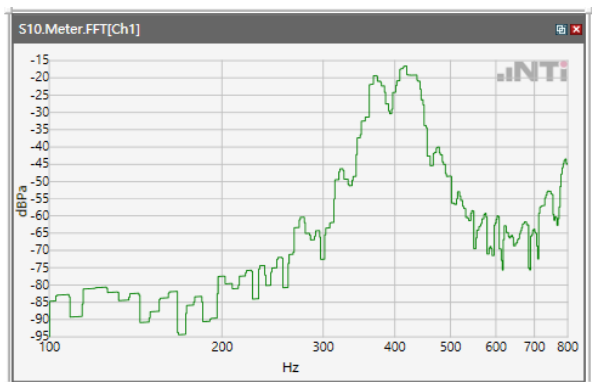
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5

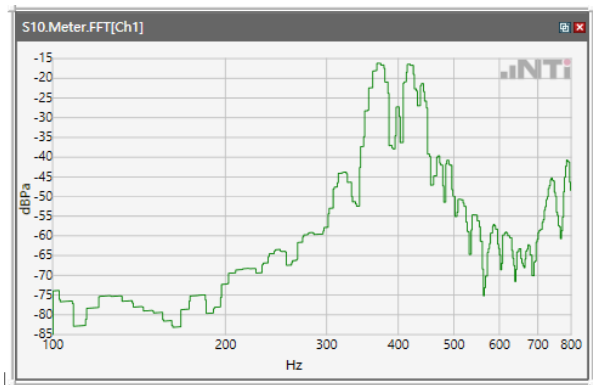


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7

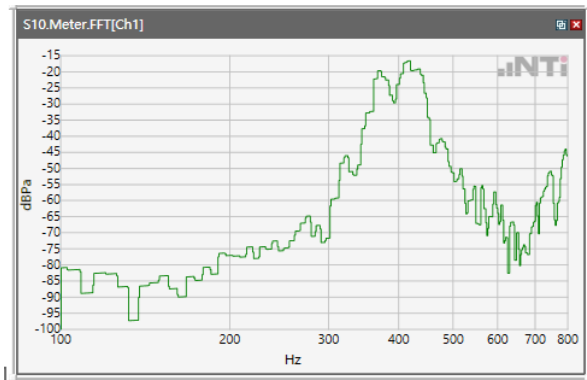




## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



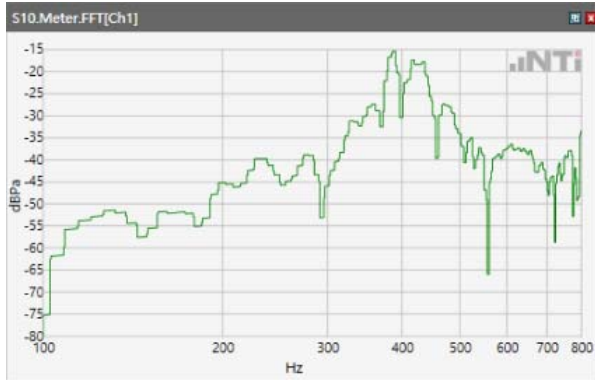
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13



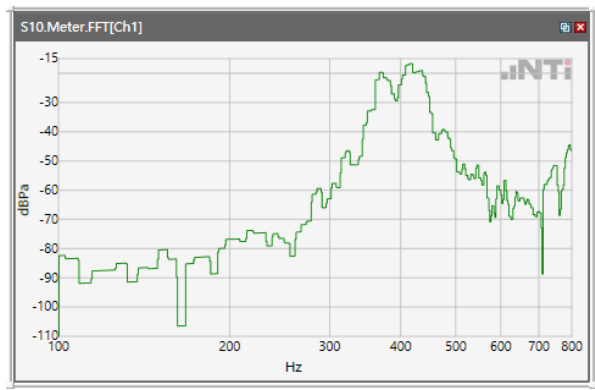
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17



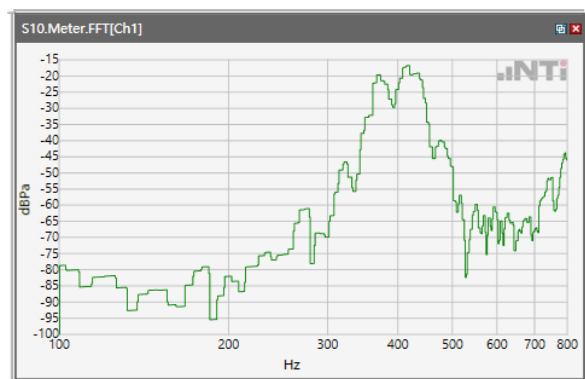
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 25



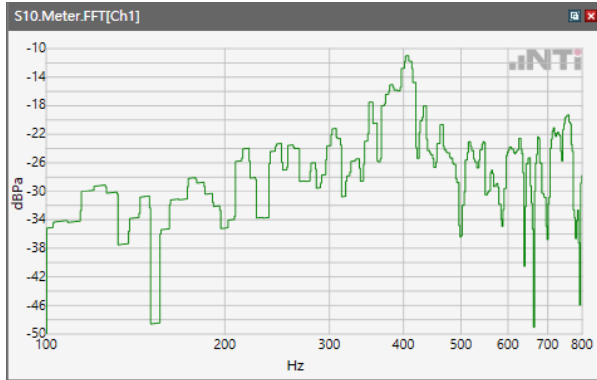
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 66



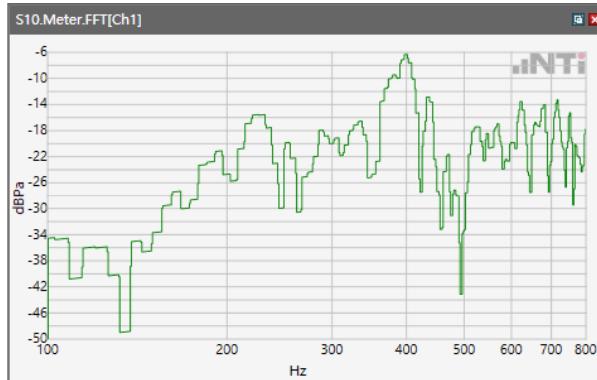
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 71



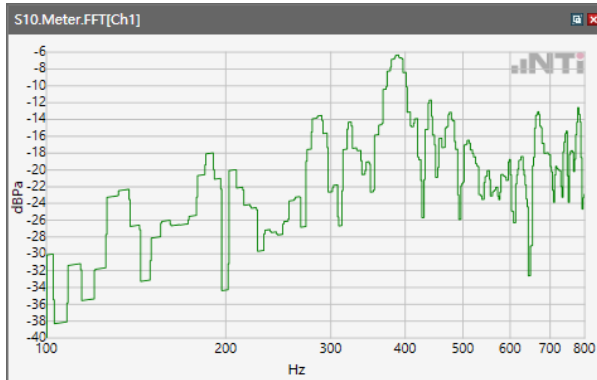
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noiseWLAN 2.4GHz



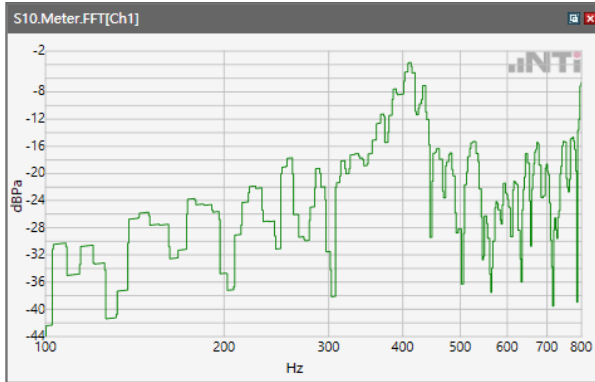
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noiseWLAN 5.2GHz



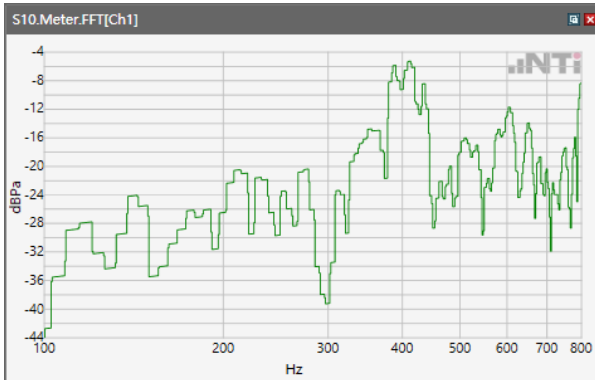
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noiseWLAN 5.3GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noiseWLAN 5.5GHz

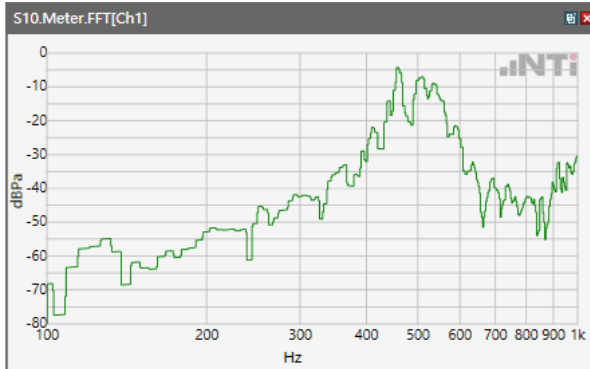


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noiseWLAN 5.8GHz

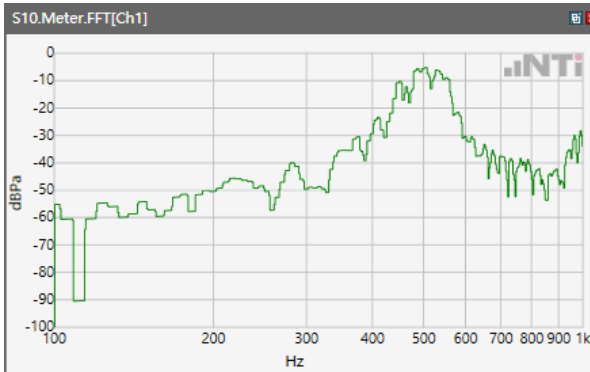


## Receive path - distortion and noise 500Hz WB&NB

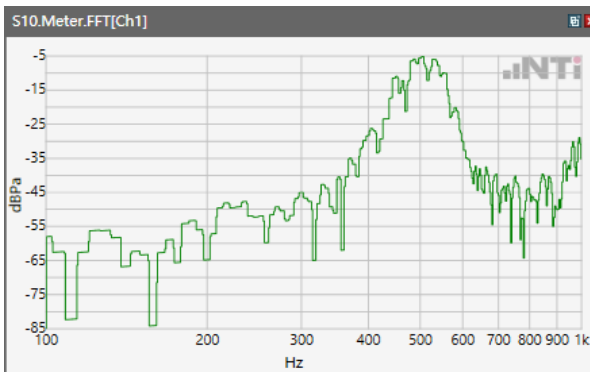
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ GSM 850



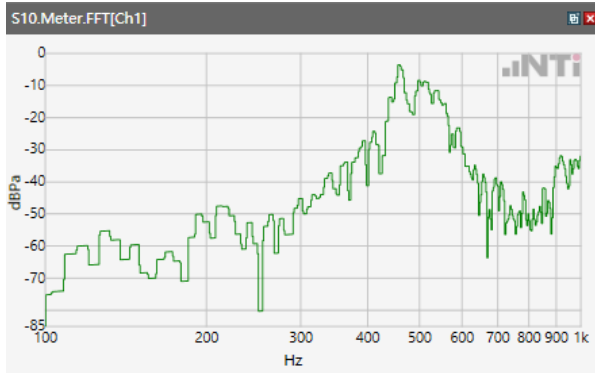
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ GSM 1900



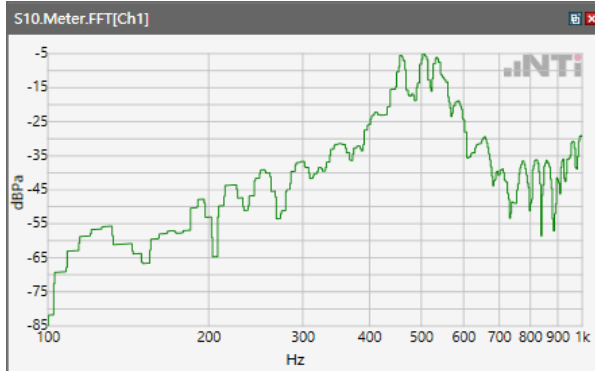
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WCDMA Band II



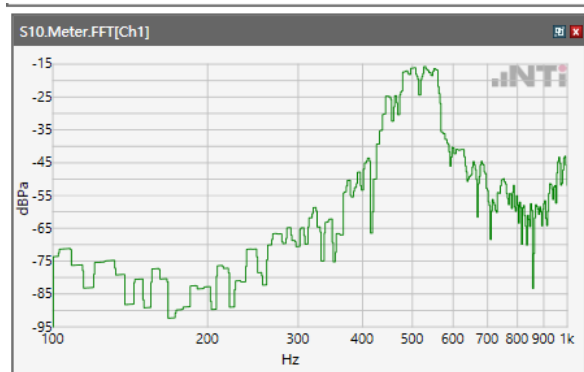
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band IV



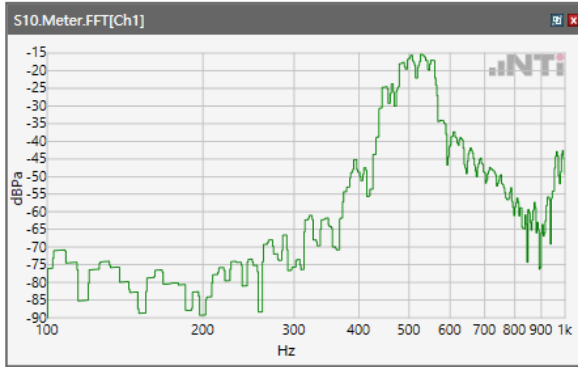
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band V



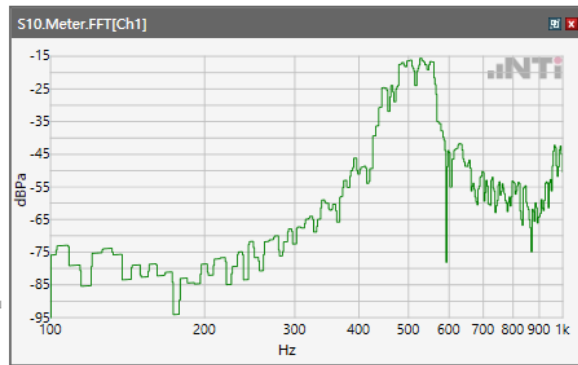
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 2



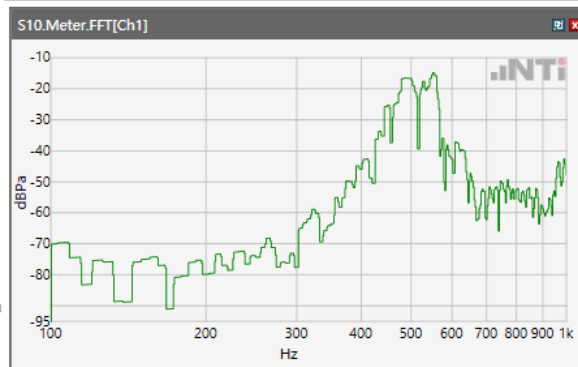
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



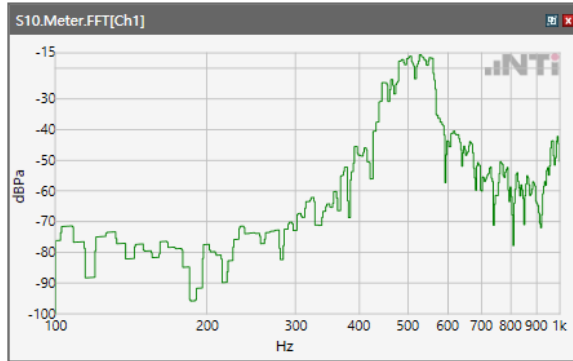
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



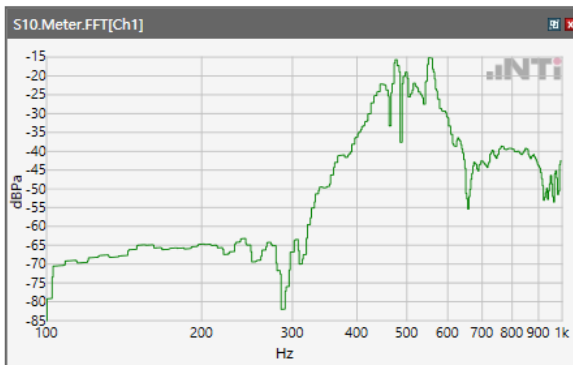
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



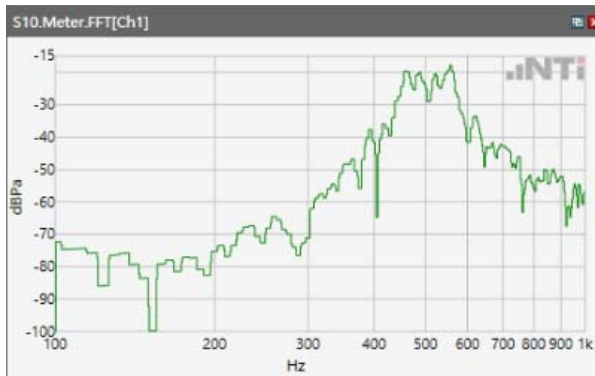
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 12



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 13



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 17

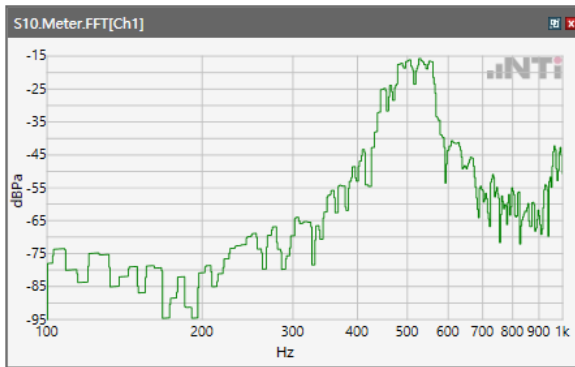




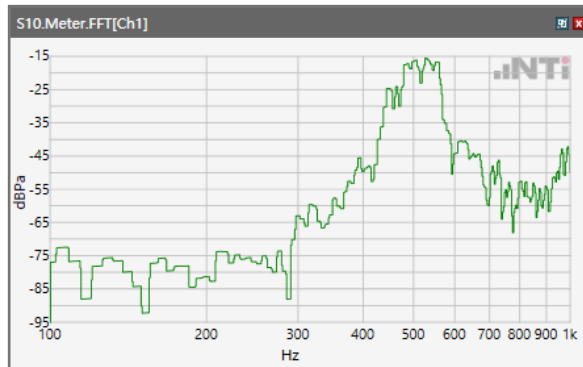
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



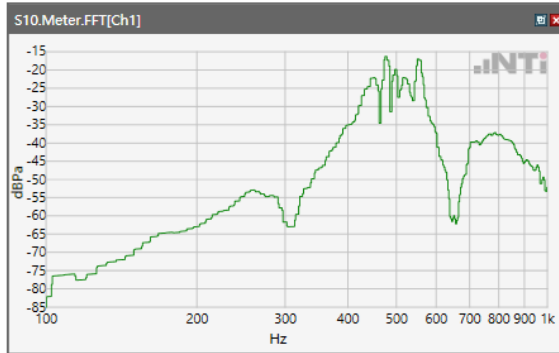
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66



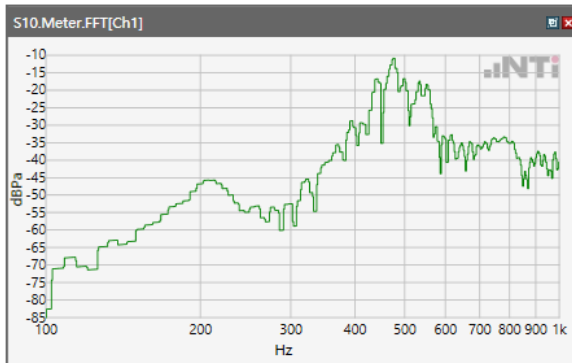
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71



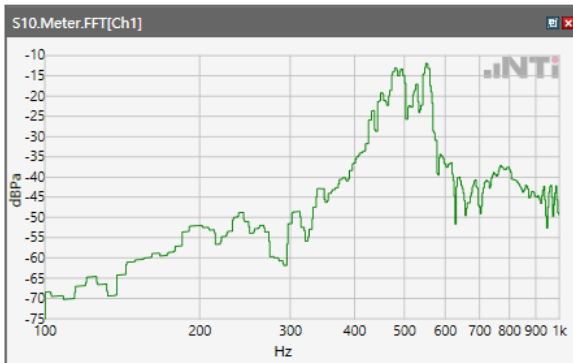
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 2.4GHz



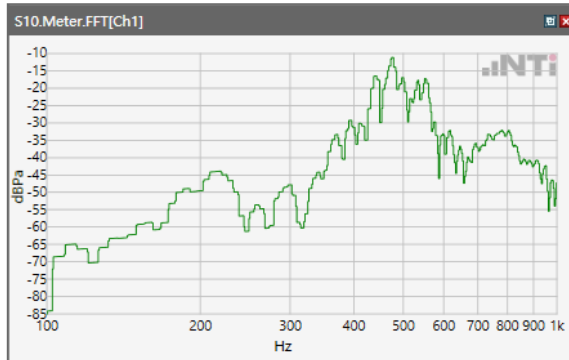
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.2GHz



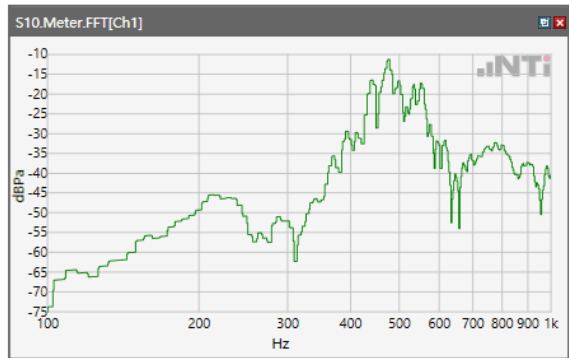
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.3GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.5GHz

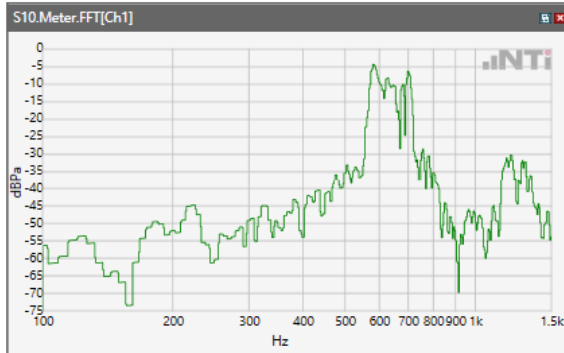


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.8GHz

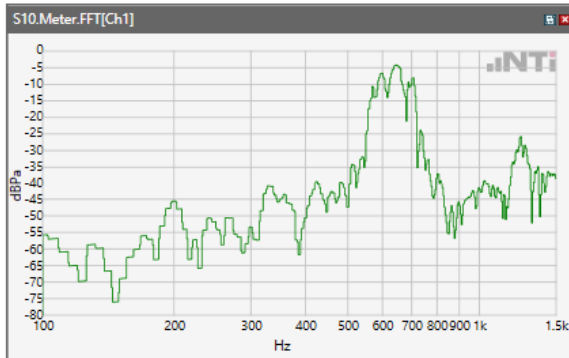


## Receive path - distortion and noise 630Hz WB&NB

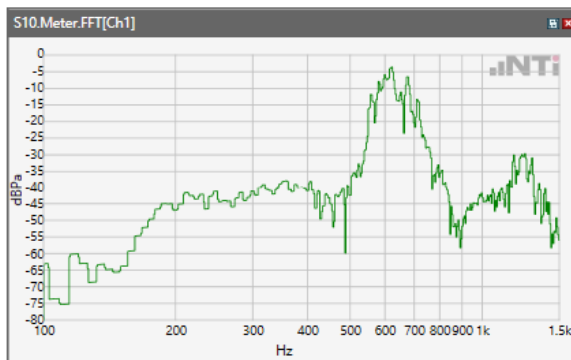
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ GSM 850



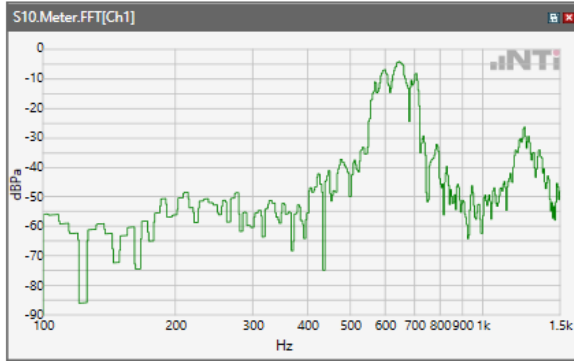
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ GSM 1900



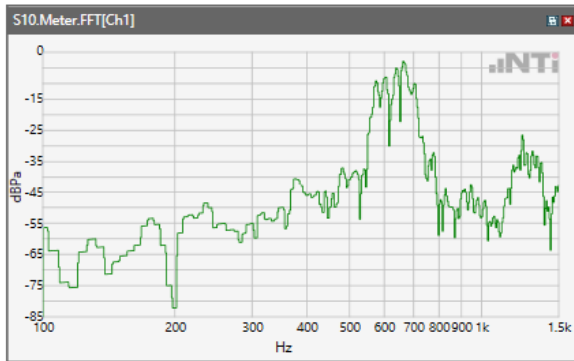
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WCDMA Band II



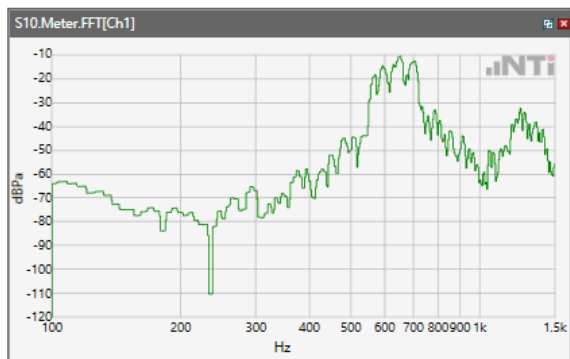
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WCDMA Band IV



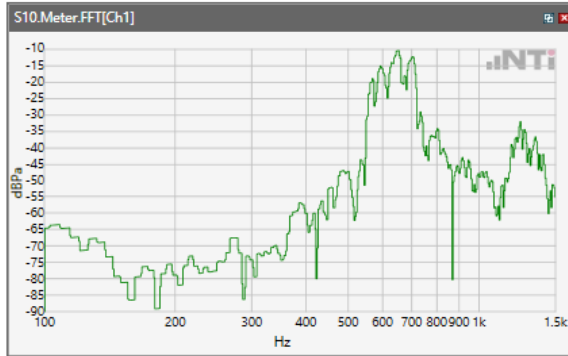
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WCDMA Band V



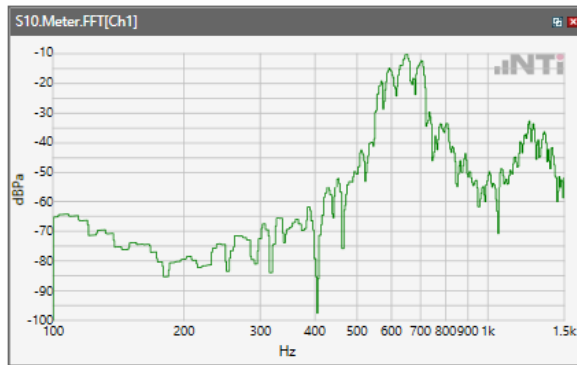
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 2



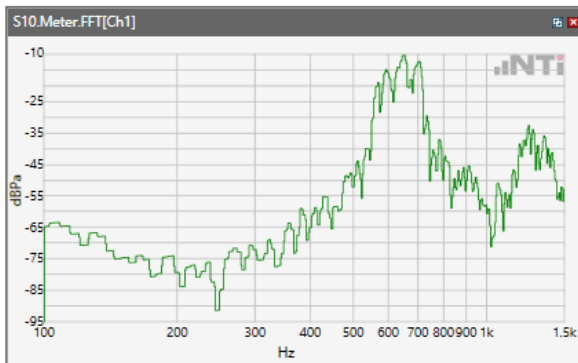
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 4



## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 5



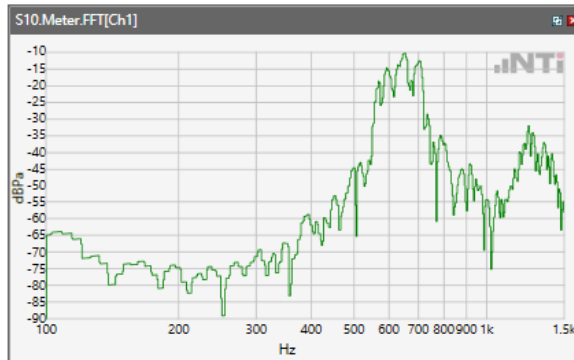
## ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 7



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 12



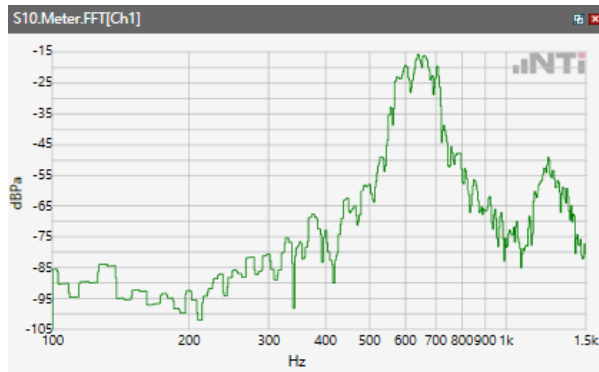
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 13



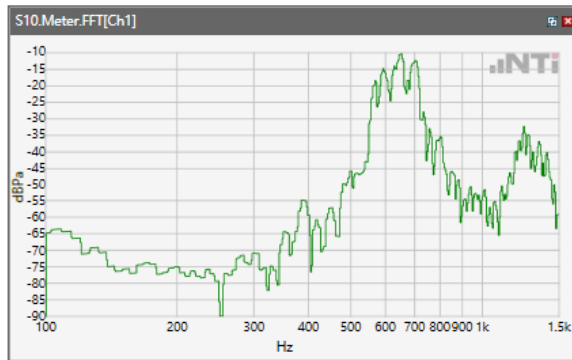
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ LTE Band 17



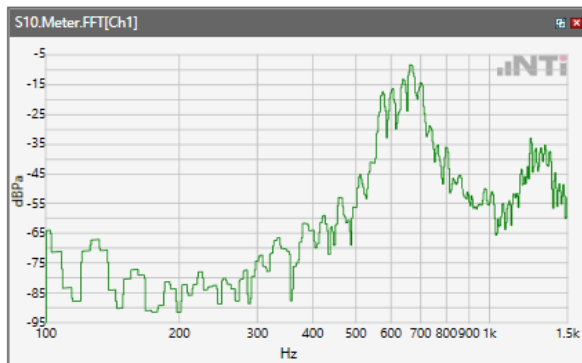
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 25



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 66

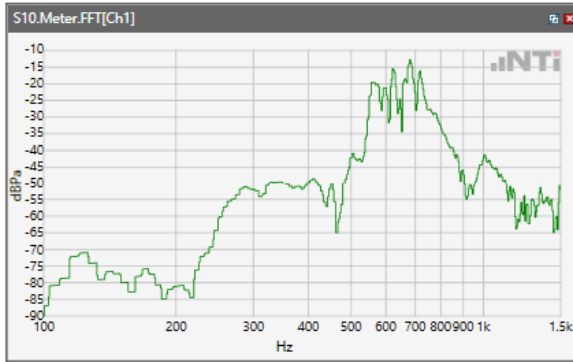


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\LTE Band 71

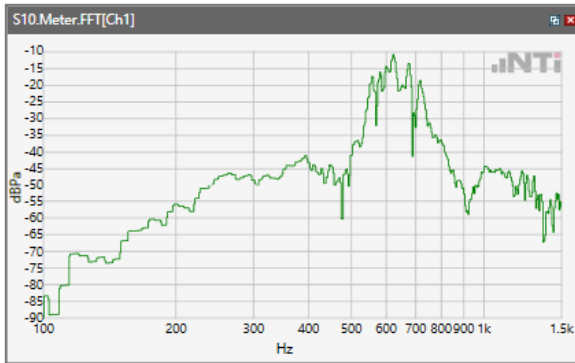




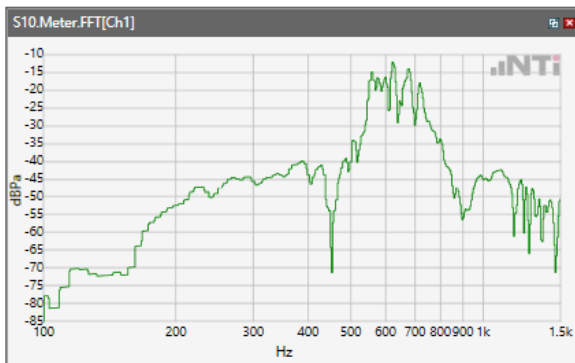
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 2.4GHz



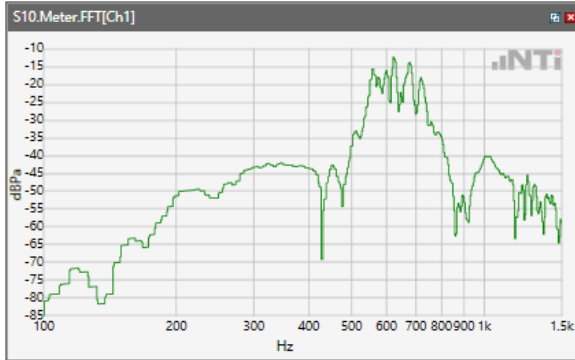
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.2GHz



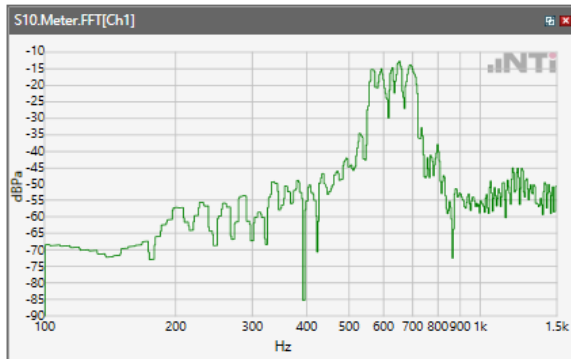
ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps \ 5.2 Receive path – distortion and noise \ WLAN 5.3GHz



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.5GHz

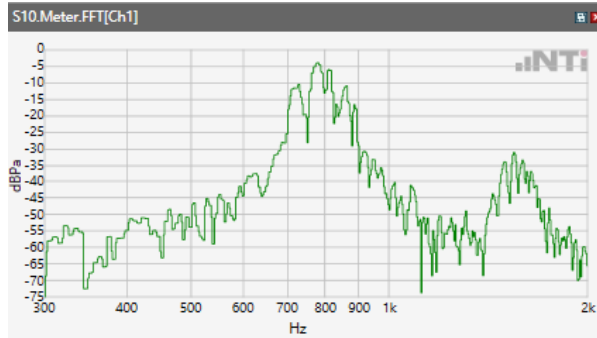


ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WLAN 5.8GHz

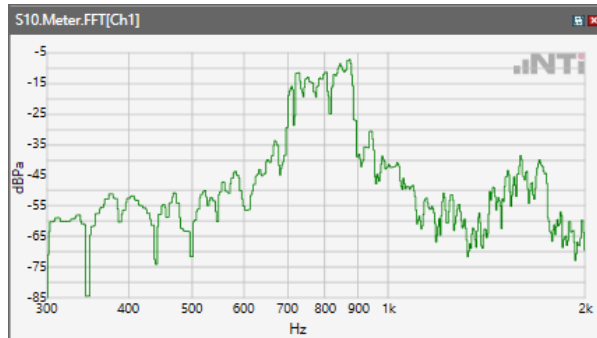


## Receive path - distortion and noise 800Hz WB&NB

ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 850



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\GSM 1900



ANSI/TIA 5050-2018 \ 8N HAC OFF \ WB 12.65 kbps\ 5.2 Receive path – distortion and noise\WCDMA Band II

