Spectrum Compact

Indoor Signal Mapping Solution Kit

spectrumcompact.com
trxsystems.com

SAF

TRX systems

Floor 4

0.00

4

3

2

-120.00

SAF
USB Spectrum Analyzer
PIB Index: 2

Power in Band
-77.00
dBm

SAF   Center   13:45
-72dBm

dBm
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140

1495.25 LNA ON   1496.25   1497.25
RBW: 10 kHz   Span 2.00 MHz   REF: -46dBm
VBW: 1 kHz   DET: AVG   ATT: 0 dB

FREQ   SPAN   MARKER   PRESET

RBW &
VBW   LEVEL   TRACE   FULL
SCREEN

POWER
IN BAND   SAVE   SWEEP
CONT   TOOLS &
SETTINGS

TRX

Indoor Signal Mapping Solution Kit

SAF Tehnika offers a lightweight indoor signal mapping kit to map signal coverage for critical communications. The three-part kit includes a handheld spectrum analyzer that makes building inspections effortless. Automatic user tracking eliminates manual check-ins and provides accurate location data, whereas the software visualizes the information for easy review.
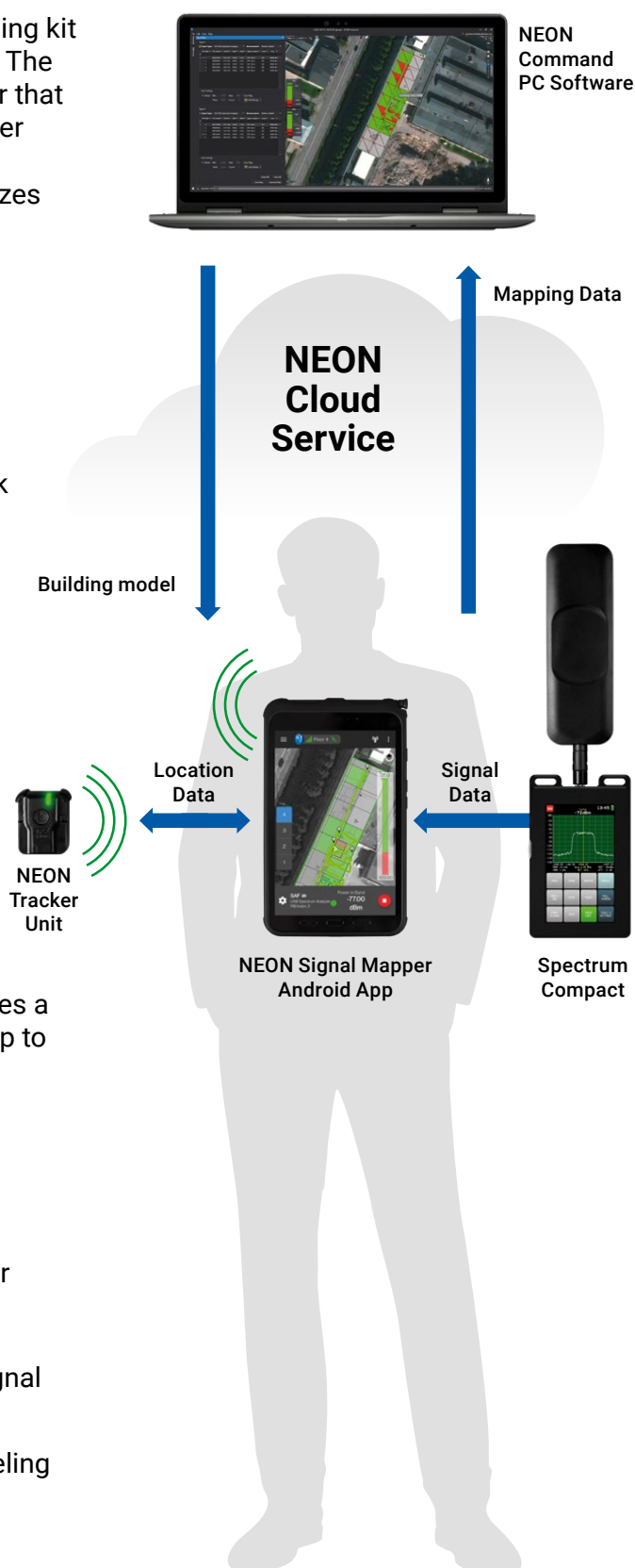
THIS KIT IS PORTABLE, LIGHT, AND SMART:

- **Uniquely compact toolkit** with a handheld spectrum analyzer

- Maps **multiple frequency bands** during one walk

- Simplified grid reporting for **ICA and NFPA compliance**

- Creates a 3D color-graded heat map of 0.3-8 GHz and 24-43 GHz signal coverage

- Combines multiple floor heat maps into one

- Data is **easy to export** to 3rd party software platforms like iBwave

Make sure the first responders heading into a building have the confidence of uninterrupted communications during an emergency response! Spectrum Compact Indoor Signal Mapping kit ensures a hassle-free solution so that keeping your buildings up to signal safety standards and attaining certificates of occupancy takes as little effort as possible.

THIS KIT CONTENTS:

- ☑ Spectrum Compact handheld spectrum analyzer

- ☑ NEON Tracking Unit

- ☑ NEON Signal Mapper Android application for signal mapping on-site.

- ☑ NEON Command PC software for building modeling and mapping session analysis.

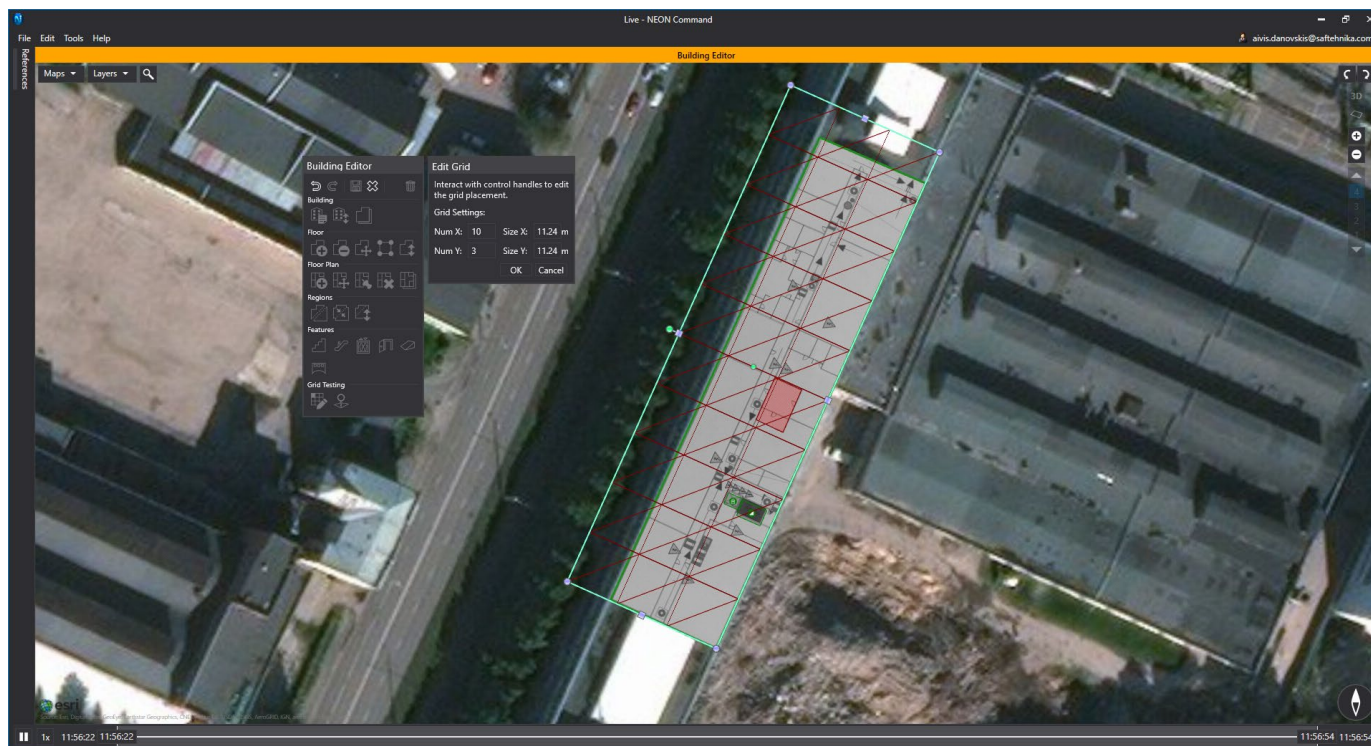- ☑ Accessories: antennas, cables, etc.

NEON Command PC Software

Mapping Data

NEON Cloud Service

Building model

Location Data

NEON Tracker Unit

Signal Data

NEON Signal Mapper Android App

Spectrum Compact

Quick Start Guide

1

Prepare Building Plans using NEON Command PC software to:

a. Create building outline
b. Add floor plan images
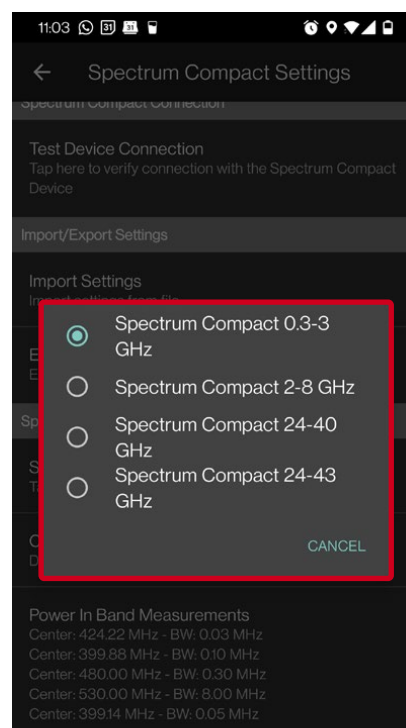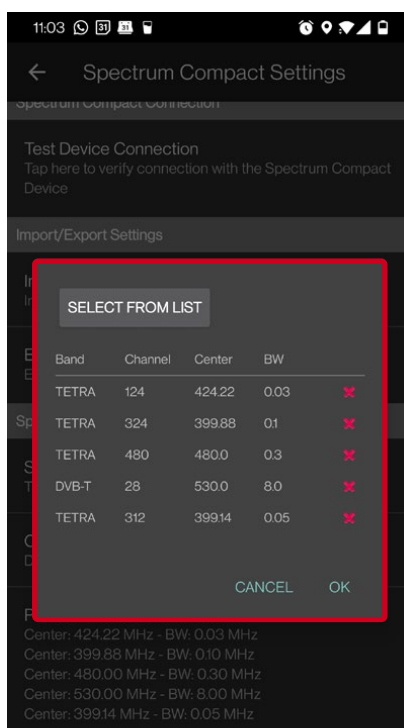c. Add measurement grid and locate critical areas

Screenshot from NEON Command building editor

2

Set up the measurement channels in the NEON Signal Mapper Android application:

a. Input center frequency and bandwidth for multiple channels that need to be scanned
b. Set other measurement parameters if necessary

Screenshots from NEON Signal Mapper: channel list with multiple channels selected (left); selection of correct Spectrum Compact model (right)

3

On-site signal mapping process. Open NEON Signal Mapper
Android application:

a. Calibrate the tracing system and your current position in the
building
b. Verify Spectrum Compact connection with the Android device
c. Start walking through the area that needs to be mapped
d. Activate grid testing to check real-time pass/fail indication
e. Move between floors without interrupting mapping
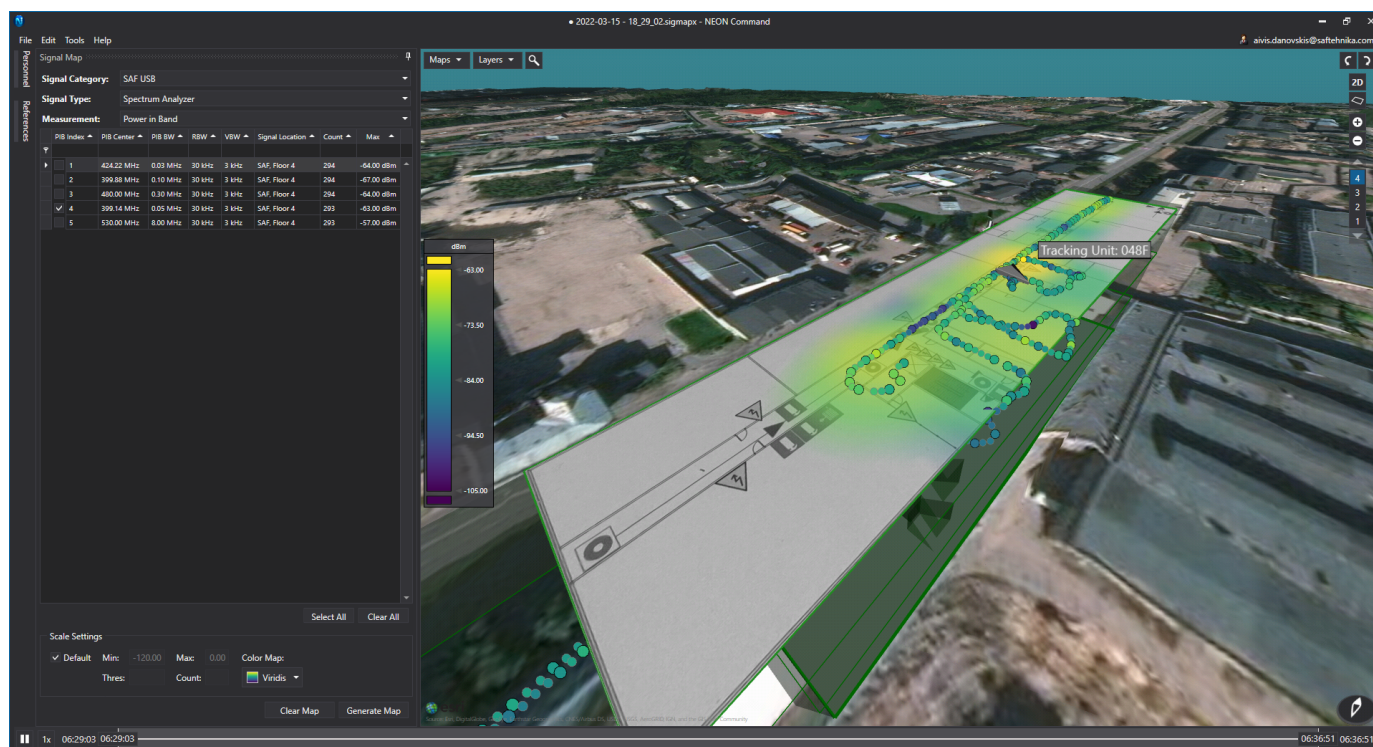f. When the mapping is finished, save data locally or export it
into the cloud

4

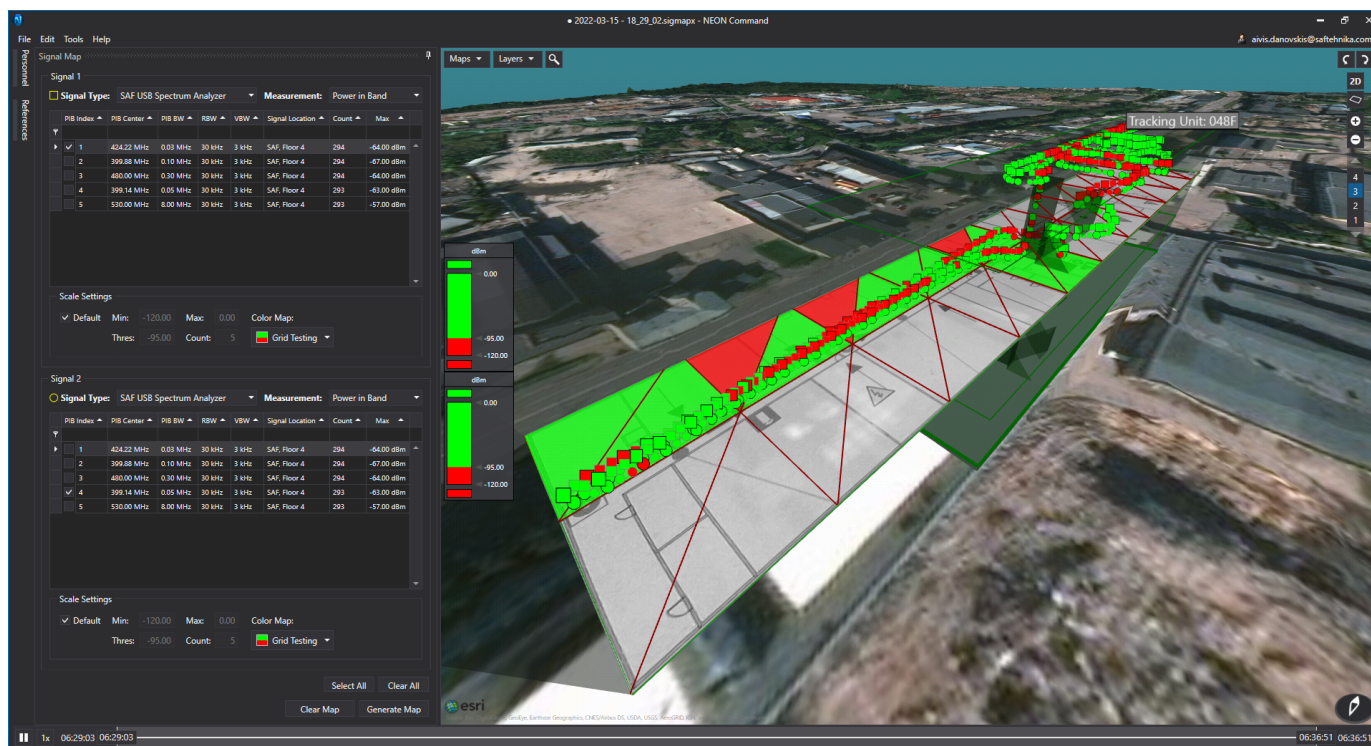**Analysis and reporting of results** in NEON Command PC
software:

a. Generate 2D or 3D heatmap of signal strength,
customize pass/fail criteria
b. Results are displayed with coverage grids
c. Generate reports for compliance documentation, e.g.,
NFPA, IFC
d. Export data for 3rd party software, e.g., iBwave
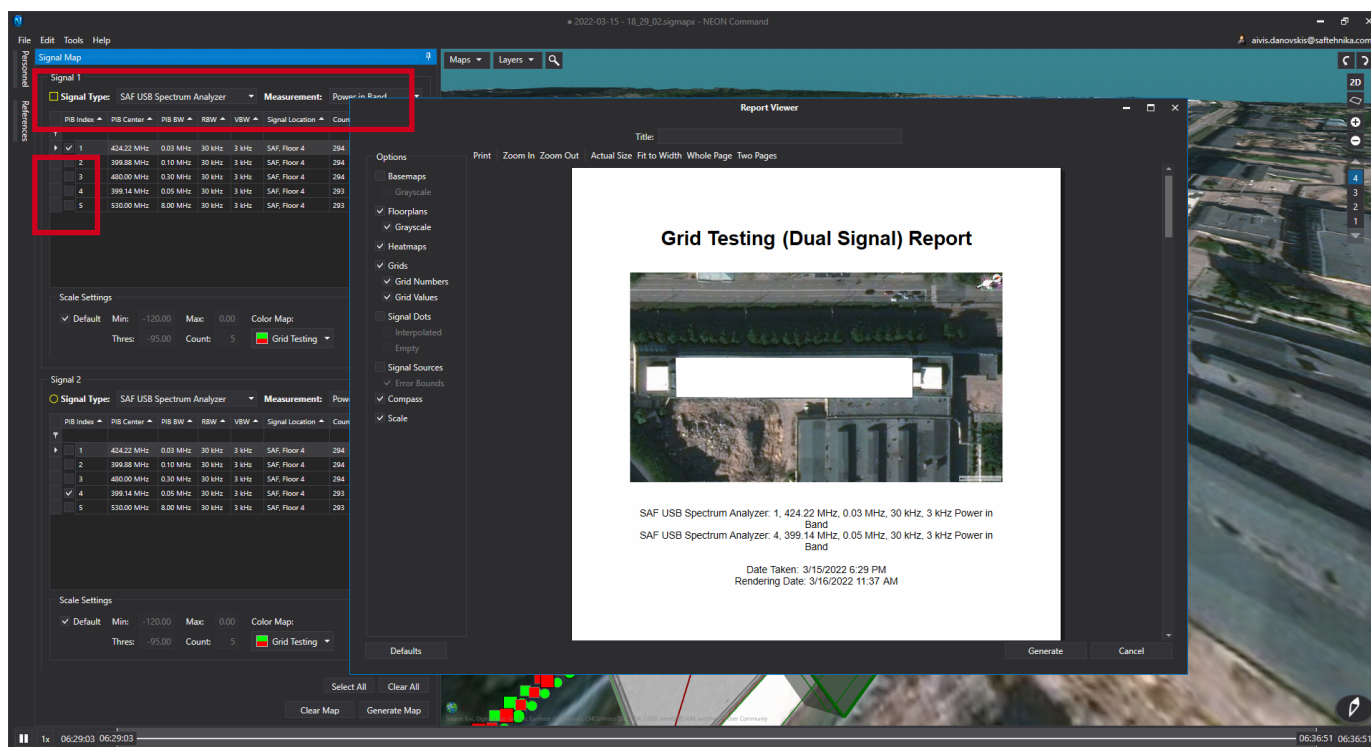

*Screenshot from NEON Signal
Mapper: floor plan with dots denoting
signal strength*

*Screenshot from NEON Command software: 3D view of the floor plans with dots
denoting signal strength and generated heatmap*

Screenshots from NEON Command: grid testing with mapped pass/fail result for multiple frequencies

Screenshots from NEON Command: report generation

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