3.2 WiFi Testing

3.2.1 Conducted Test Setup: WiFi & SAR

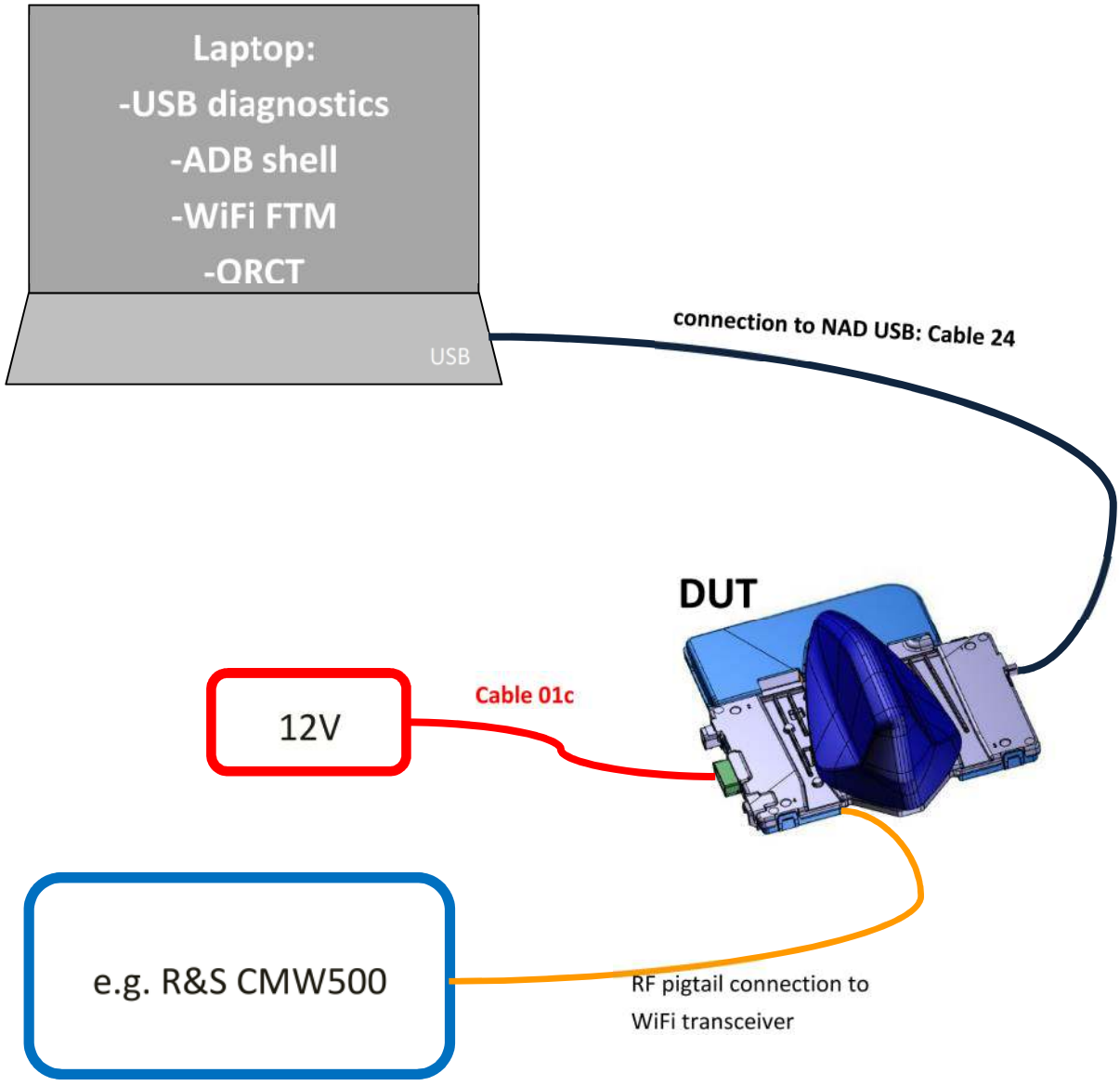


Figure 3 Conducted Setup: WiFi & SAR

This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.

3.2.2 Radiated Test Setup: WiFi & SAR

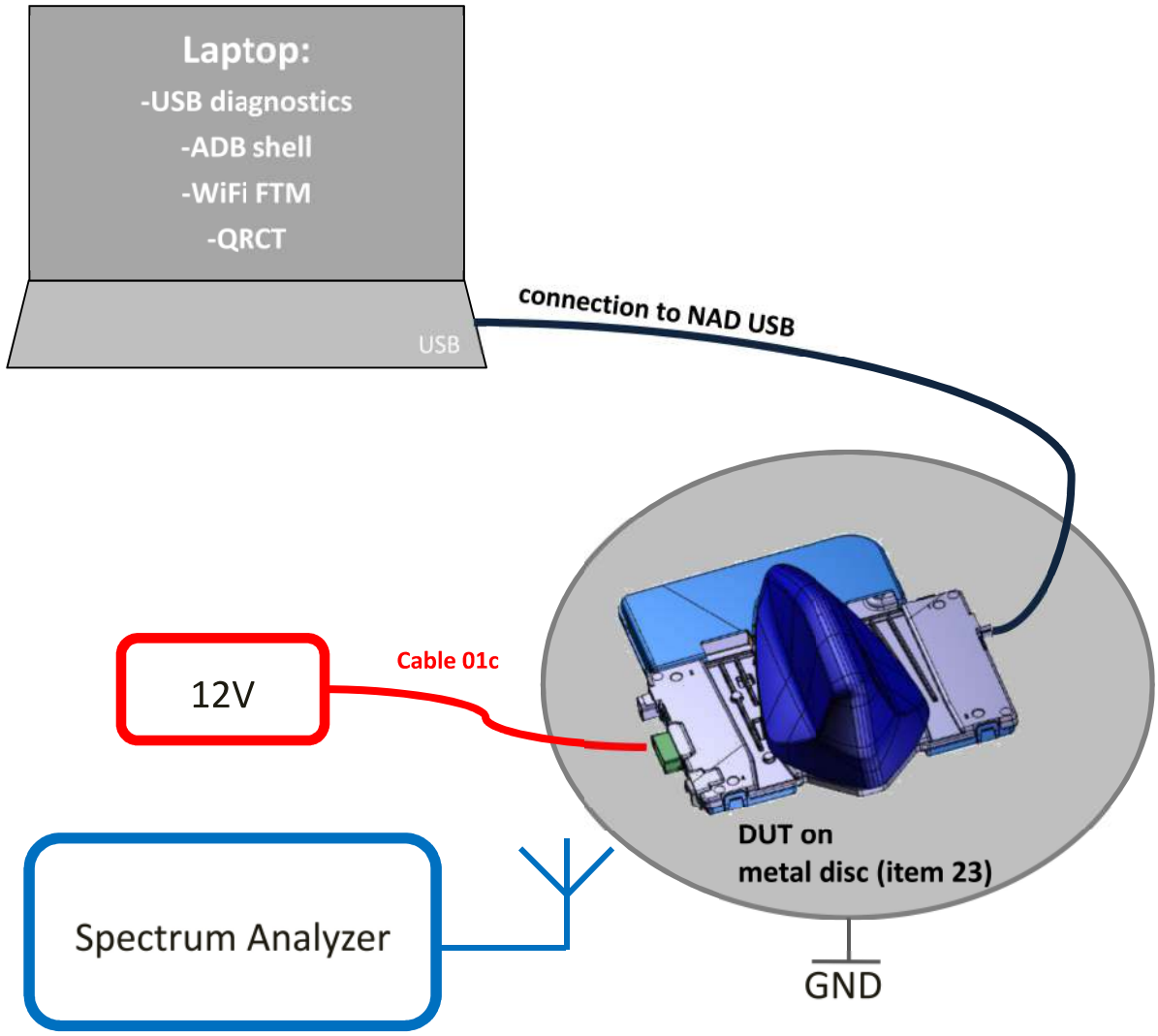
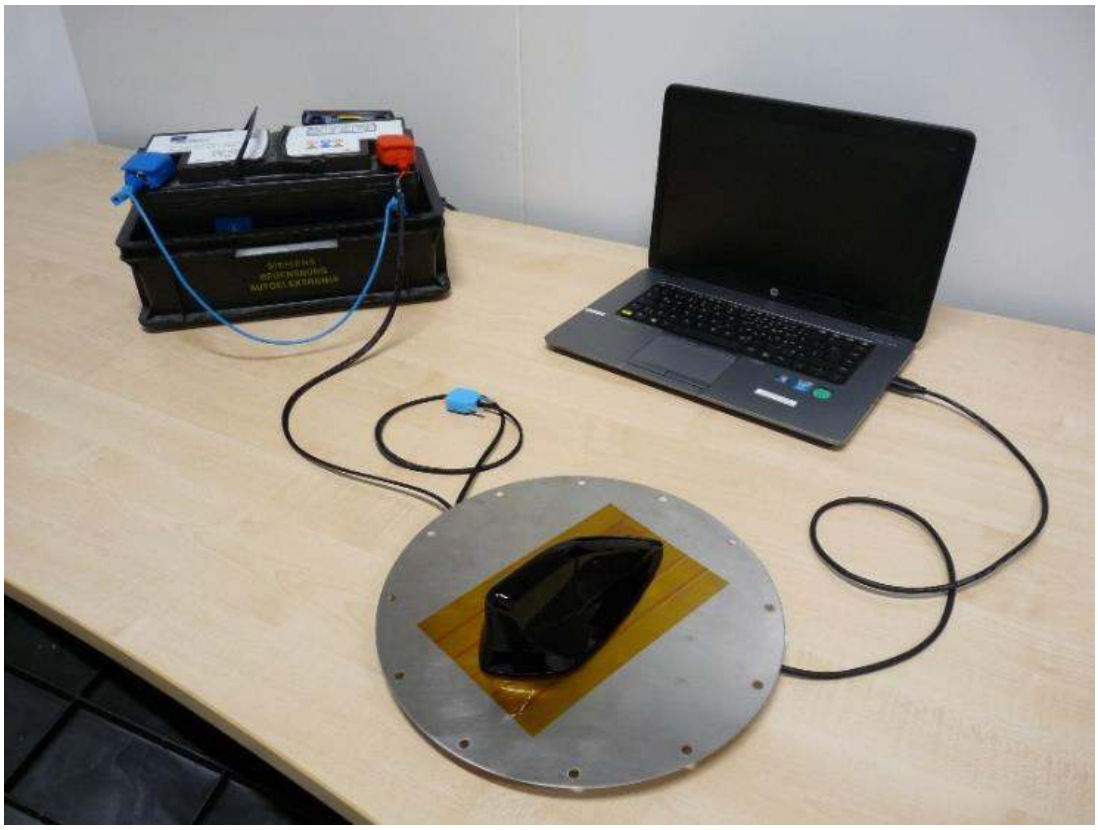


Figure 4 Radiated Setup WiFi & SAR



This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.

3.2.3 Wi-Fi Output Power Configuration

Frequency [GHz]	Band	Max. Power [dBm]	Bandwidth [MHz]
2.4	802.11b	8	20
2.4	802.11g	10	20
2.4	802.11n	10	20
5.150 - 5.250	802.11a,n,ac	4	20, 40, 80
5.725 - 5.850	802.11a,n,ac	1	20, 40, 80

5 GHz and the respective subbands are only used in countries where it is allowed

3.3 Cellular Testing

3.3.1 Conducted Test Setup: Cellular & SAR

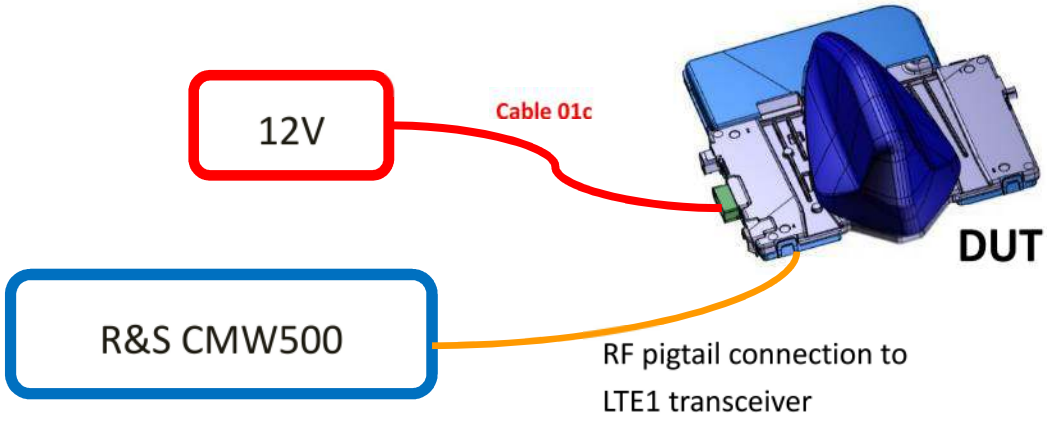


Figure 5 Conducted Setup: Cellular & SAR

This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.

3.3.2 Radiated Test Setup: Cellular Spurious Emissions

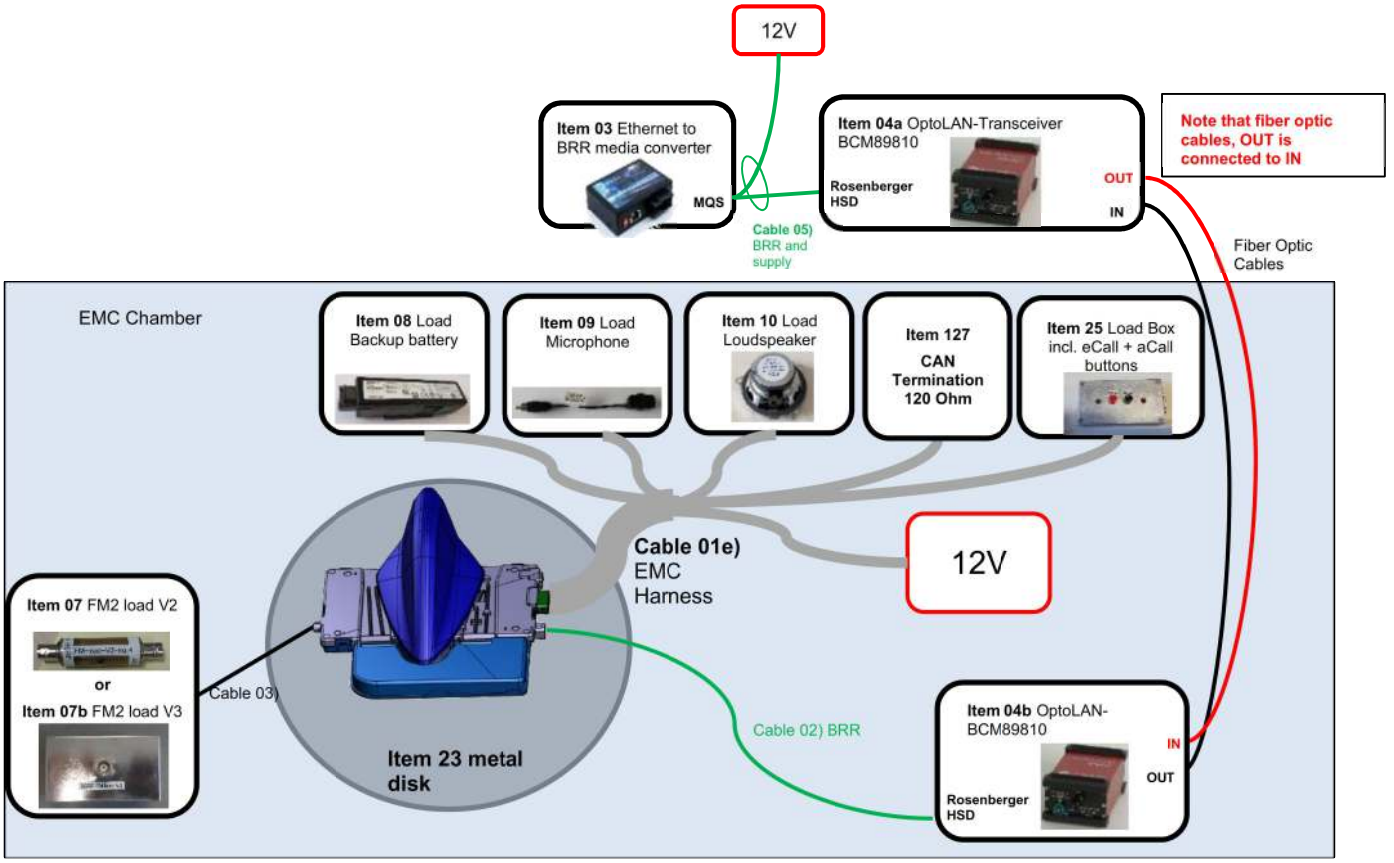
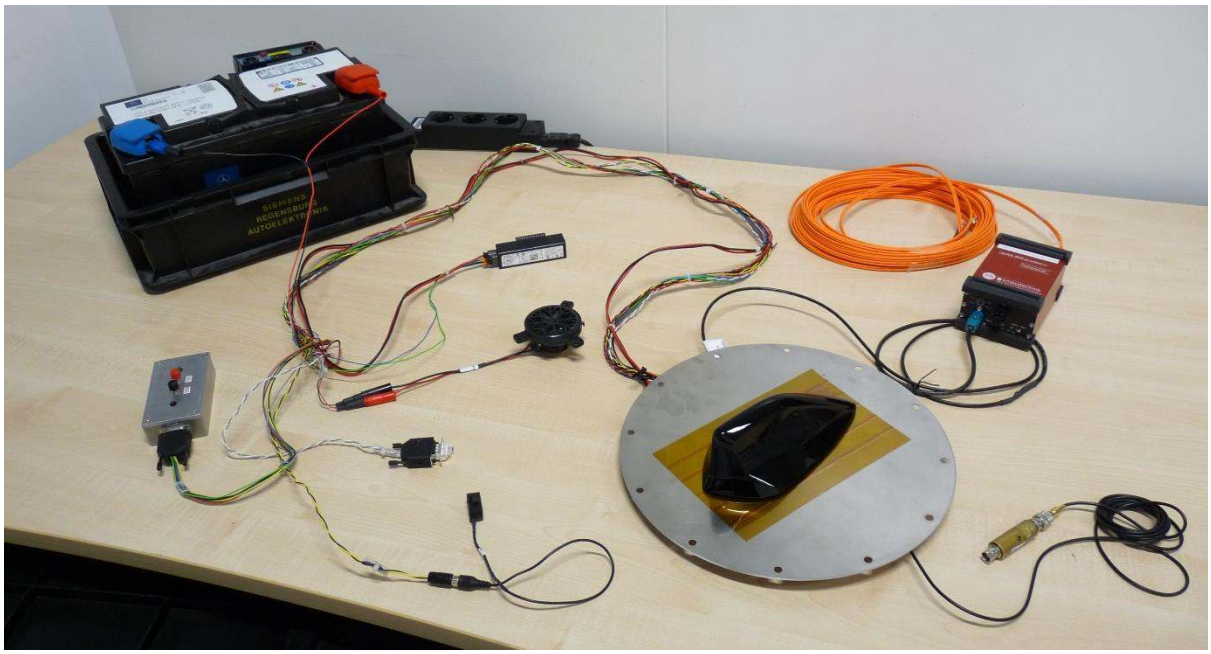


Figure 6 Radiated Setup: Cellular Spurious Emissions

Backup battery connected

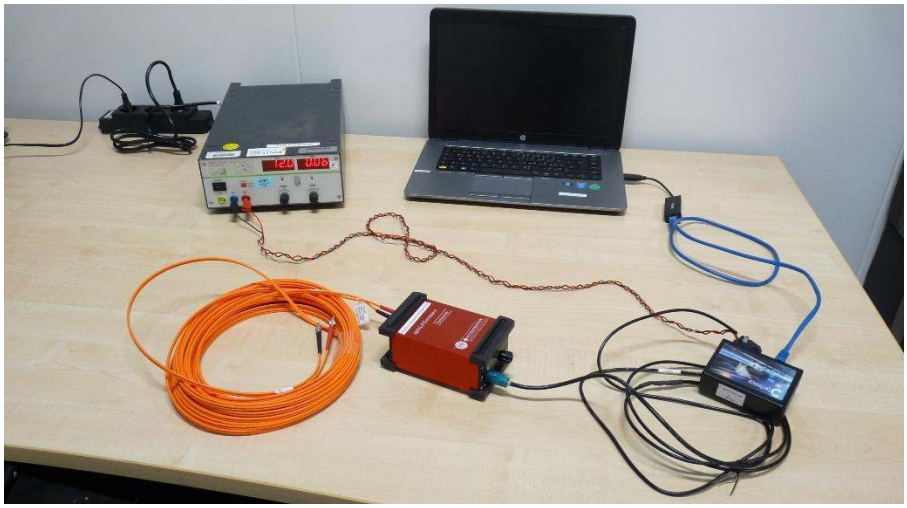
Boot up: A boot up of the BSRF on the backup battery ONLY is NOT supported.
Power cycle: If you cut the main supply on the main connector of the BSRF, then the **BSRF will run on the backup battery for max. 60sec** and will then shut down

Wiring inside chamber:



Comment: The picture shows a FM2_load_V2.Alternatively a FM2_load_V3 can be used for this test.

Wiring outside chamber:



These pictures only show the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.

Configuration of Media Converter see chapter 8.1.

Configuration of Opto LAN Tranceiver see chapter 8.2.

3.3.3 Radiated Test Setup: Cellular SAR

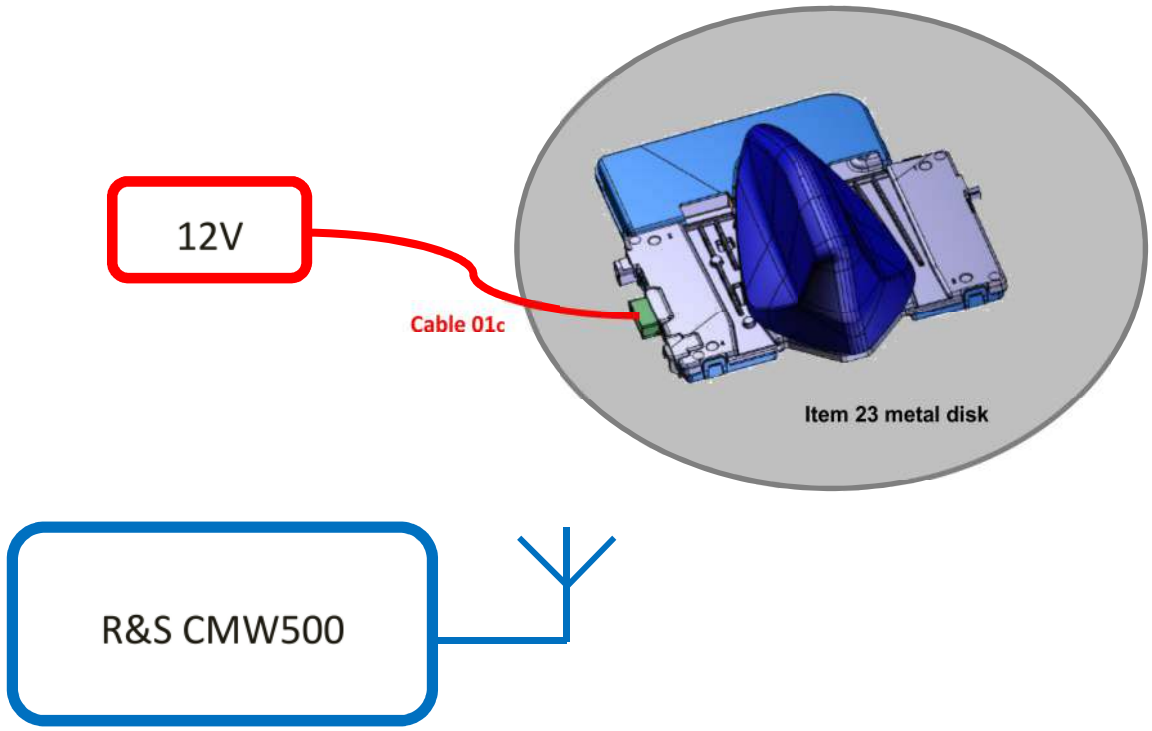
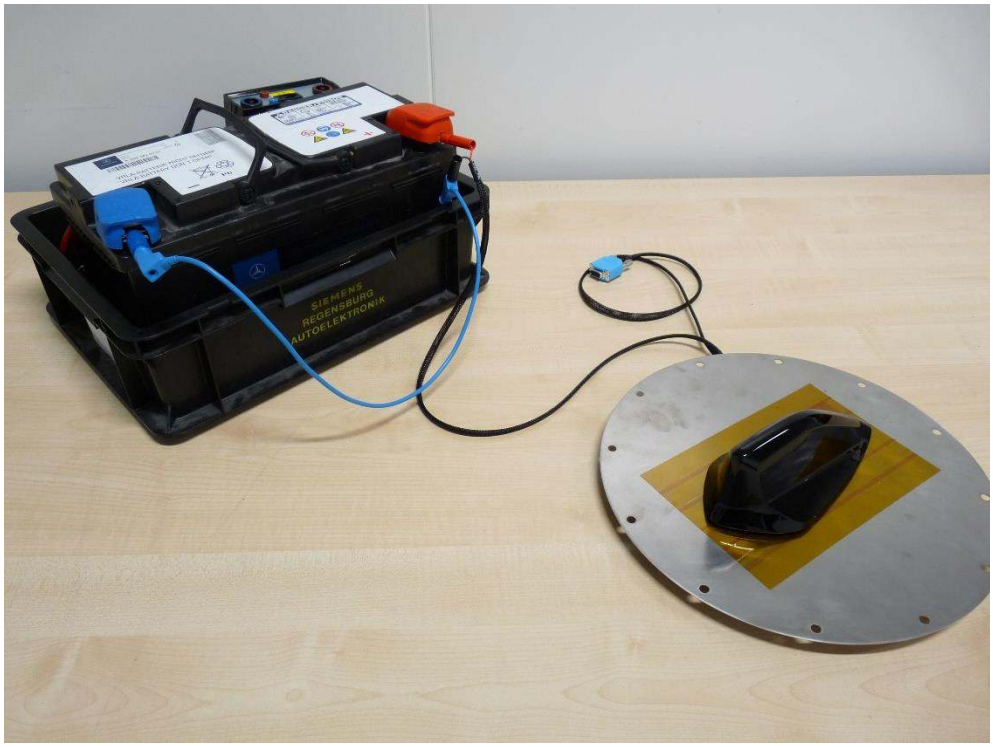


Figure 7 Radiated Setup: Cellular SAR



This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.

3.4 GNSS Testing

3.4.1 Conducted Test Setup GNSS

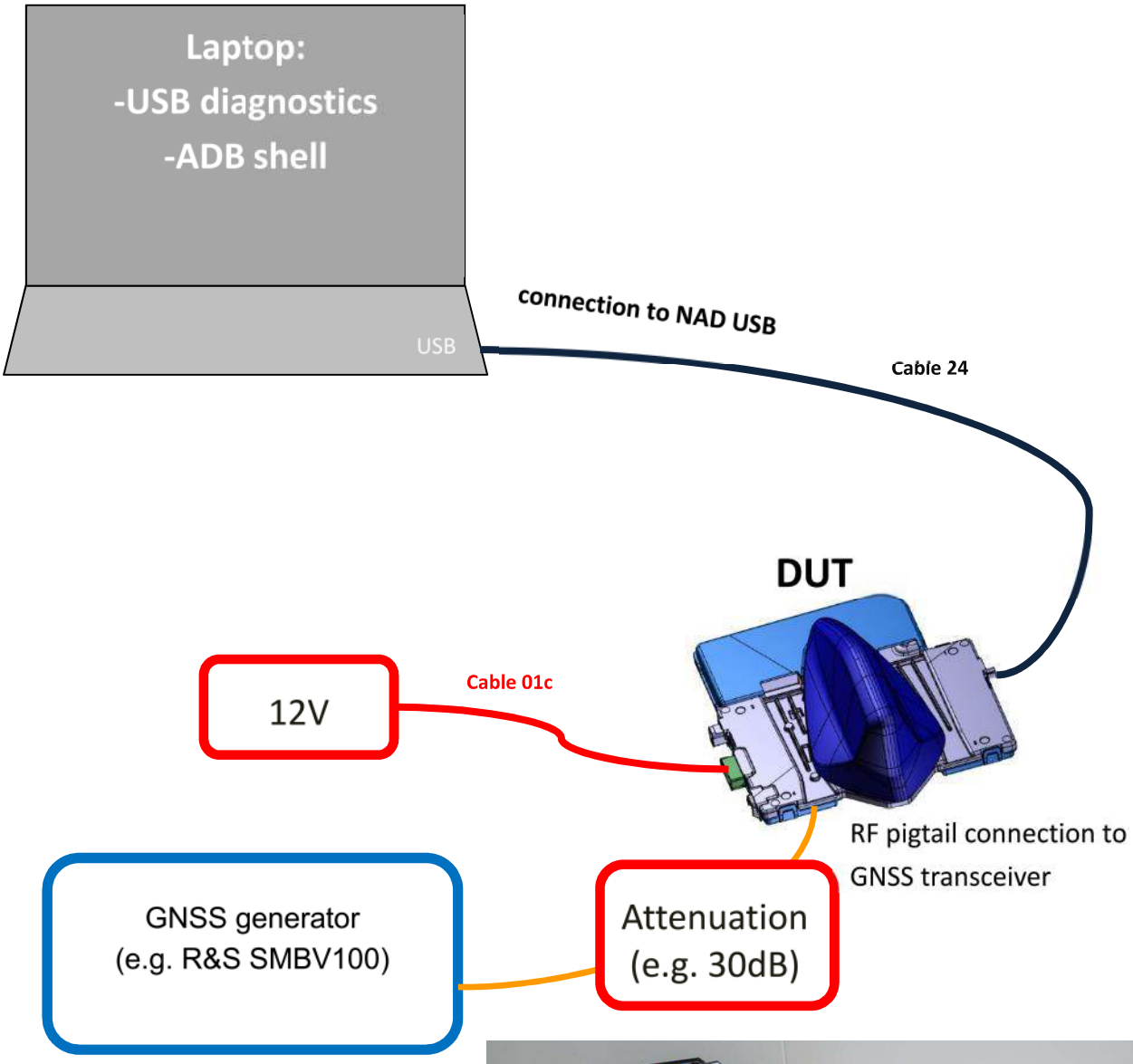


Figure 9 Conducted Setup GNSS

This picture only shows the principal wiring of setup and surrounding in the laboratory.

3.4.2 Radiated Test Setup GNSS

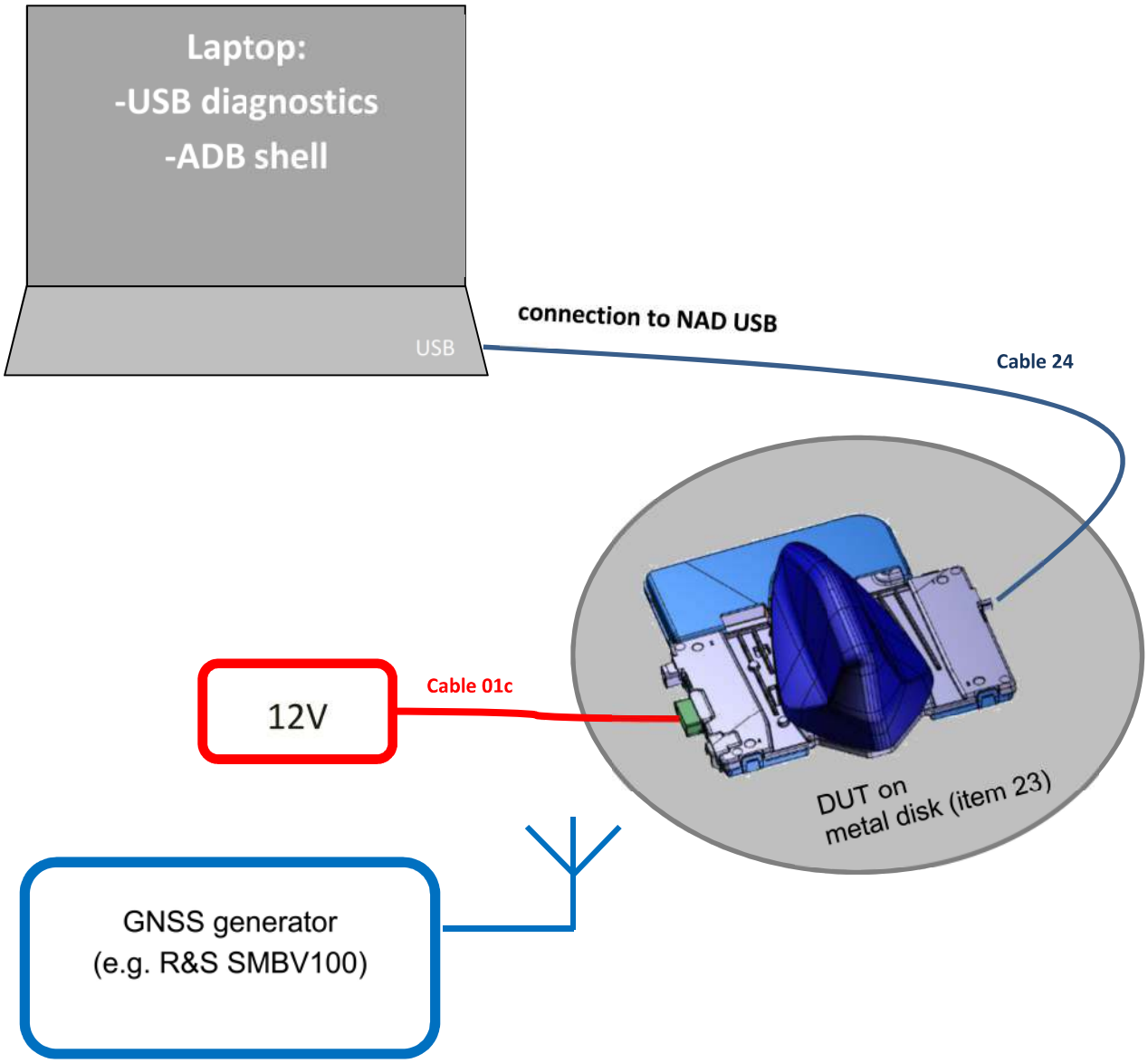
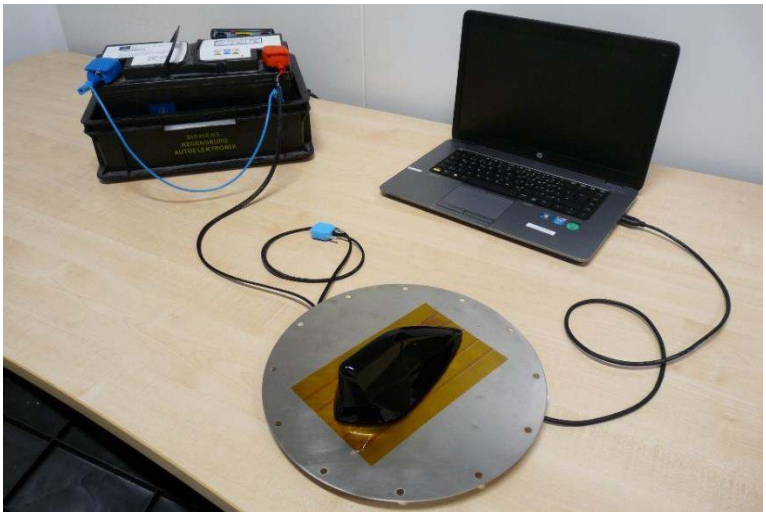


Figure 10 Radiated Setup GNSS



This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory

3.5 Broadcast Receiver Testing – AM/FM/DAB

3.5.1 Conducted Test Setup: Broadcast Receiver (FM2 or FM external)

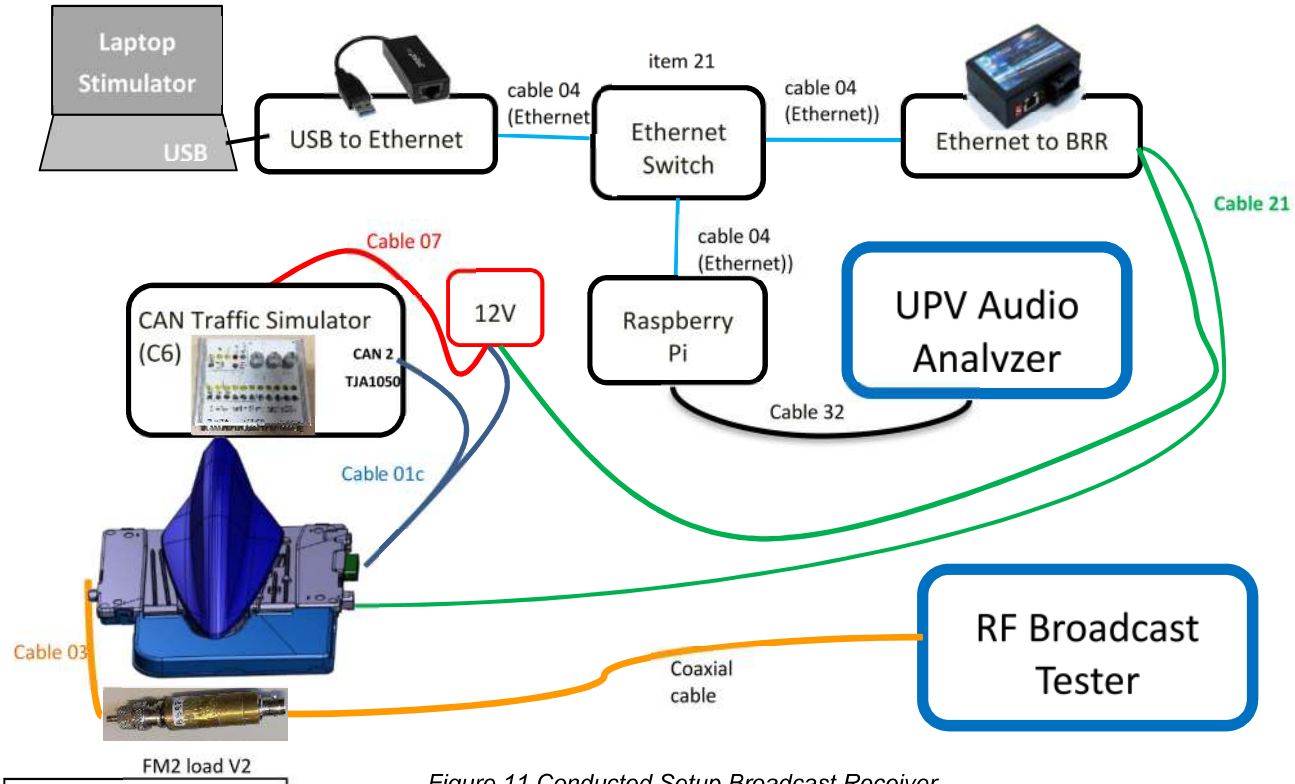
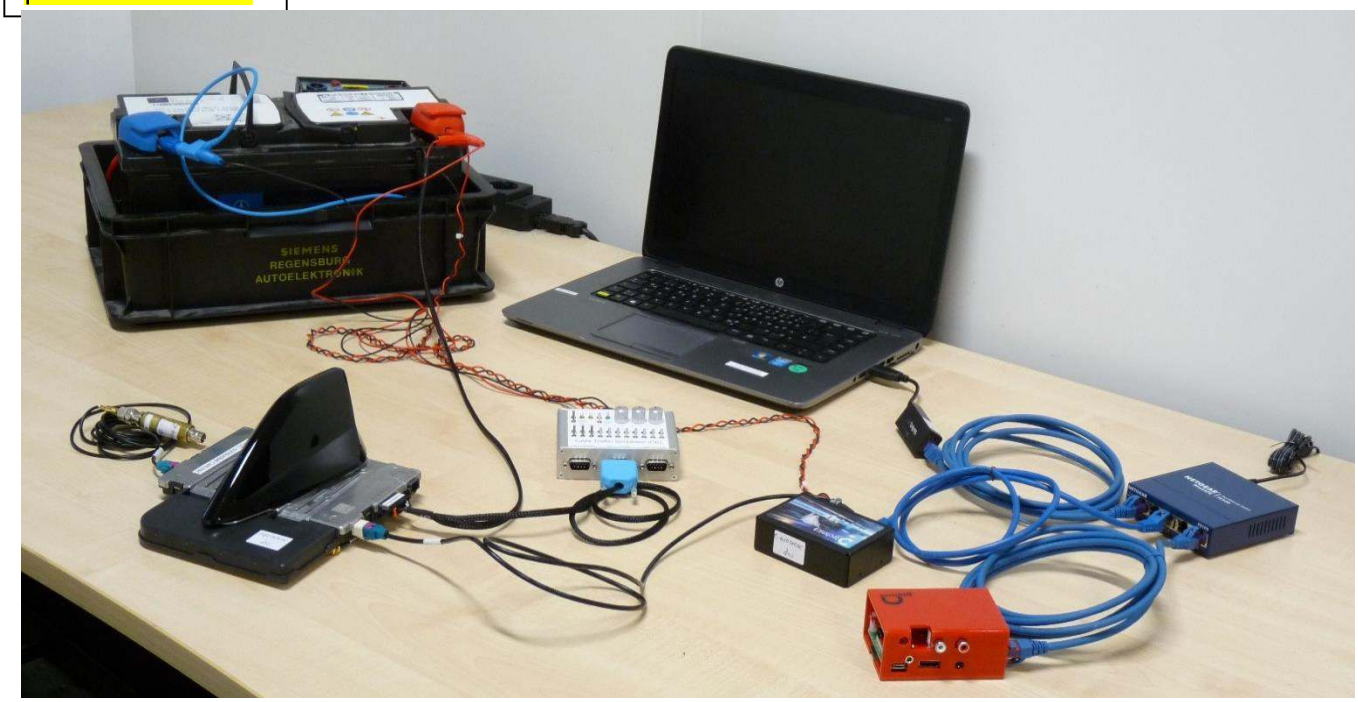


Figure 11 Conducted Setup Broadcast Receiver

FM load needs pathloss compensation of 6dB

This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory



3.5.2 Radiated Test Setup: Broadcast Receiver (AM / FM / DAB)

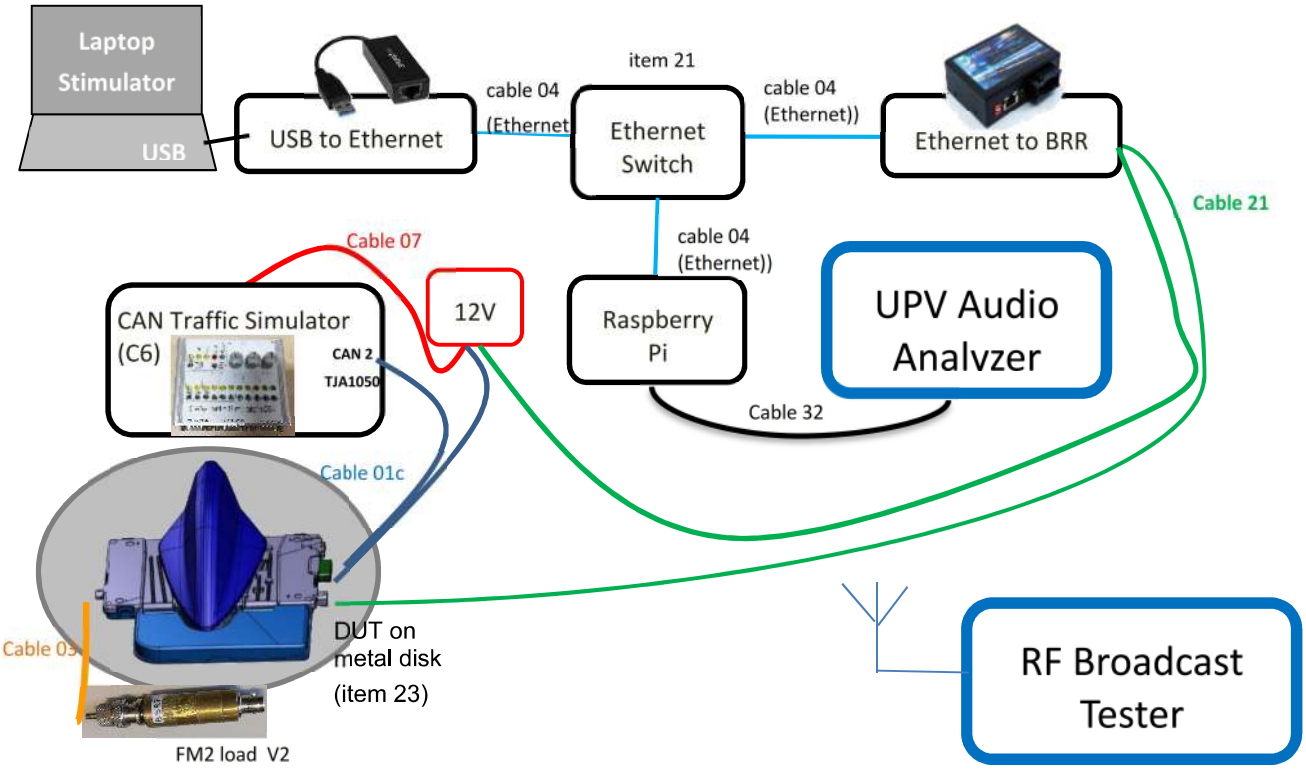
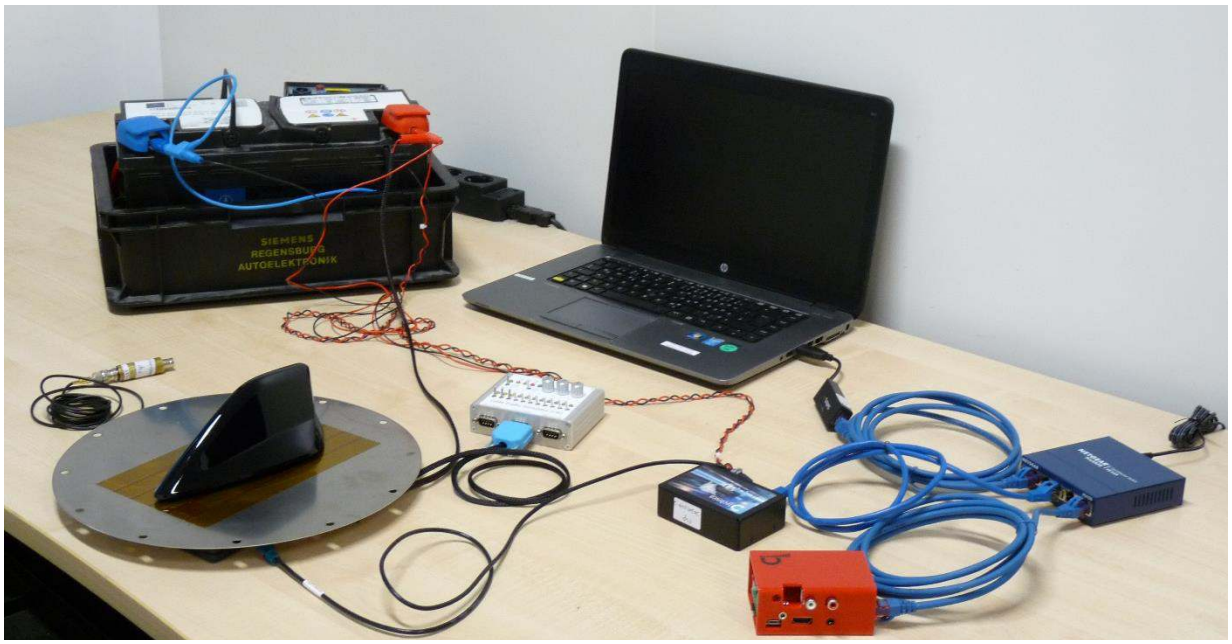


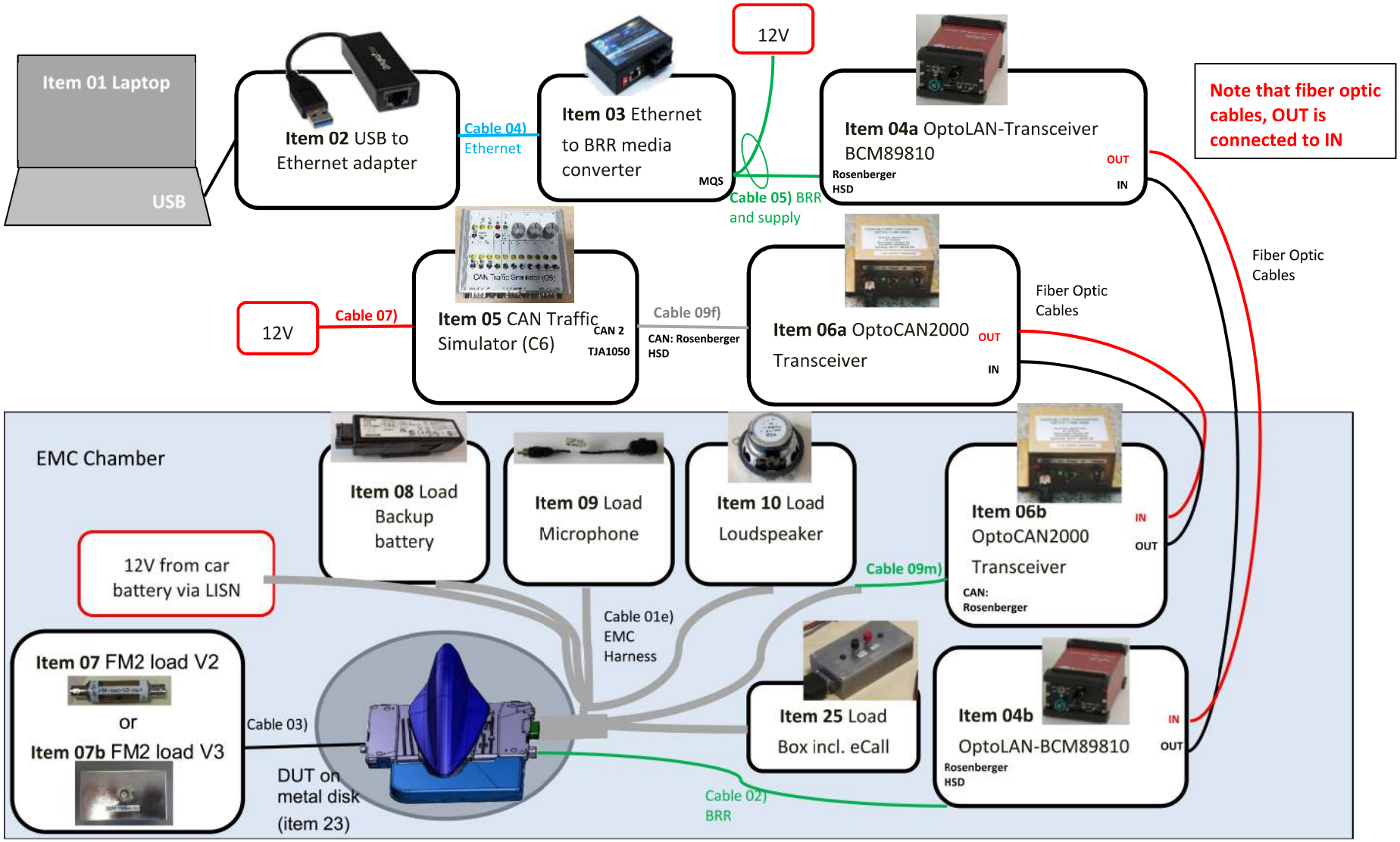
Figure 12 Radiated Setup Broadcast Receiver



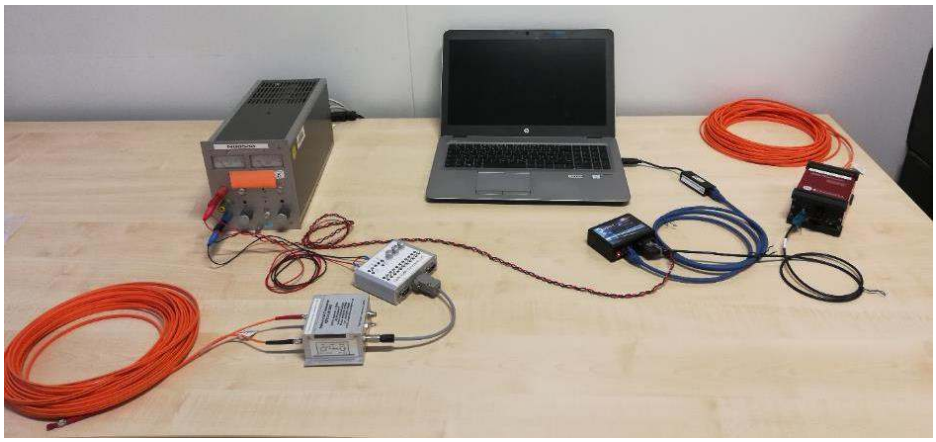
This picture only shows the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory

4.1 EMC Test Setup

Figure 13 EMC Setup



Wiring outside EMC chamber:



Wiring inside EMC chamber (Supply has to be used with LISN):

Comments:

- The picture shows a FM2_load_V2.Alternatively a FM2_load_V3 can be used for this test.
- The pictures only show the principal wiring of the test sample and equipment but not the real test setup and surrounding in the laboratory.
- Configuration of Media Converter see chapter 8.1.
- Configuration of Opto LAN Tranceiver see chapter 8.2.