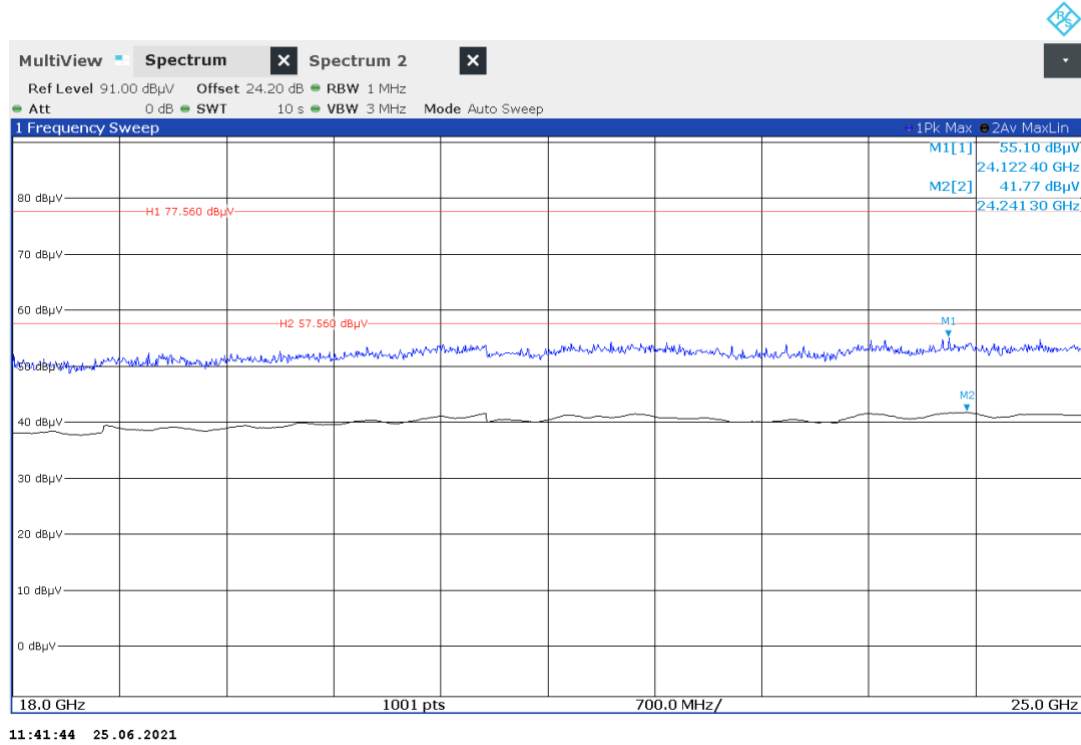
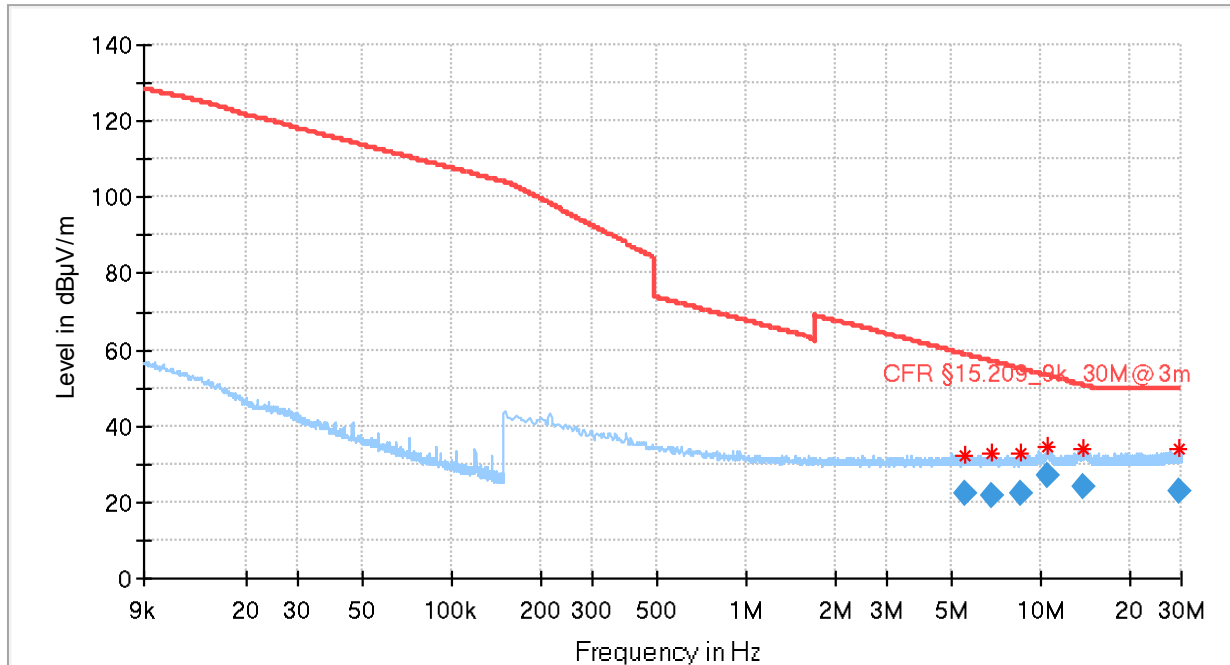


Plot 69: Mode 1, RSE 18 GHz – 25 GHz, high channel, horizontal / vertical polarisation



Plot 70: Mode 4, RSE 9 kHz – 30 MHz, low channel, loop antenna

Full Spectrum

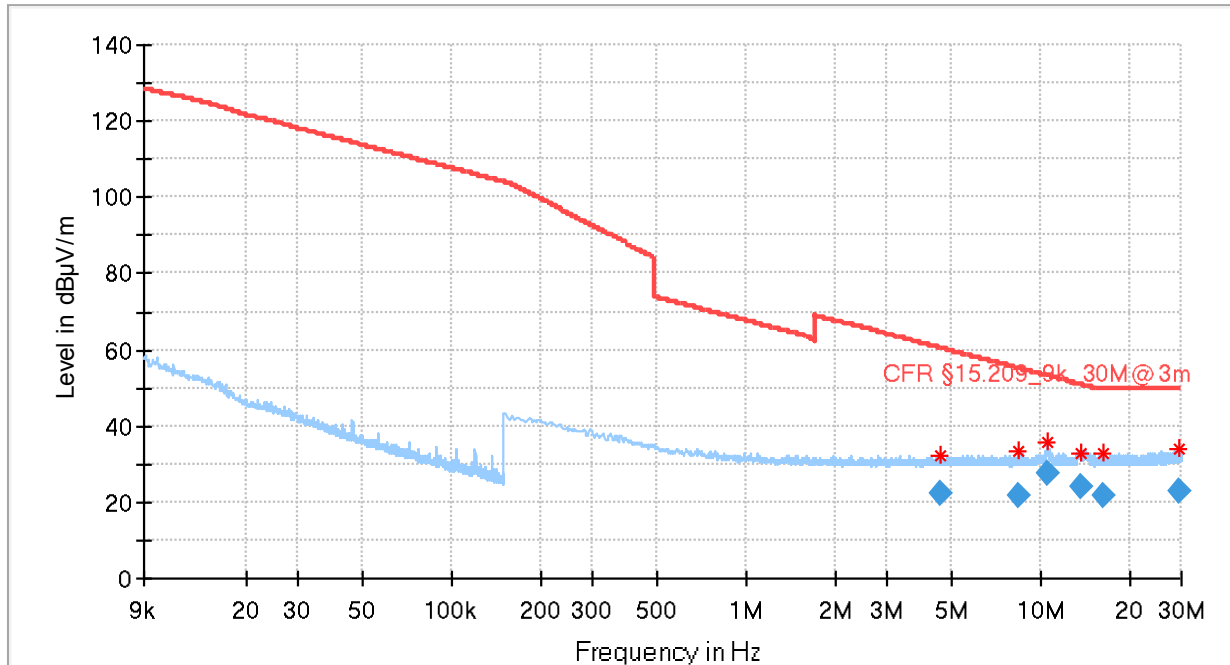


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|---------------|------------|
| 5.541000 | 22.17 | 58.75 | 36.58 | 15000.0 | 9.000 | 60.0 | 20.4 |
| 6.785250 | 21.93 | 56.97 | 35.04 | 15000.0 | 9.000 | 120.0 | 20.4 |
| 8.614500 | 22.07 | 54.89 | 32.82 | 15000.0 | 9.000 | 240.0 | 20.5 |
| 10.560750 | 26.79 | 53.12 | 26.33 | 15000.0 | 9.000 | 240.0 | 20.5 |
| 13.854750 | 23.99 | 50.75 | 26.77 | 15000.0 | 9.000 | 0.0 | 20.5 |
| 29.467500 | 22.79 | 49.54 | 26.75 | 15000.0 | 9.000 | 60.0 | 20.8 |

Plot 71: Mode 4, RSE 9 kHz – 30 MHz, mid channel, loop antenna

Full Spectrum

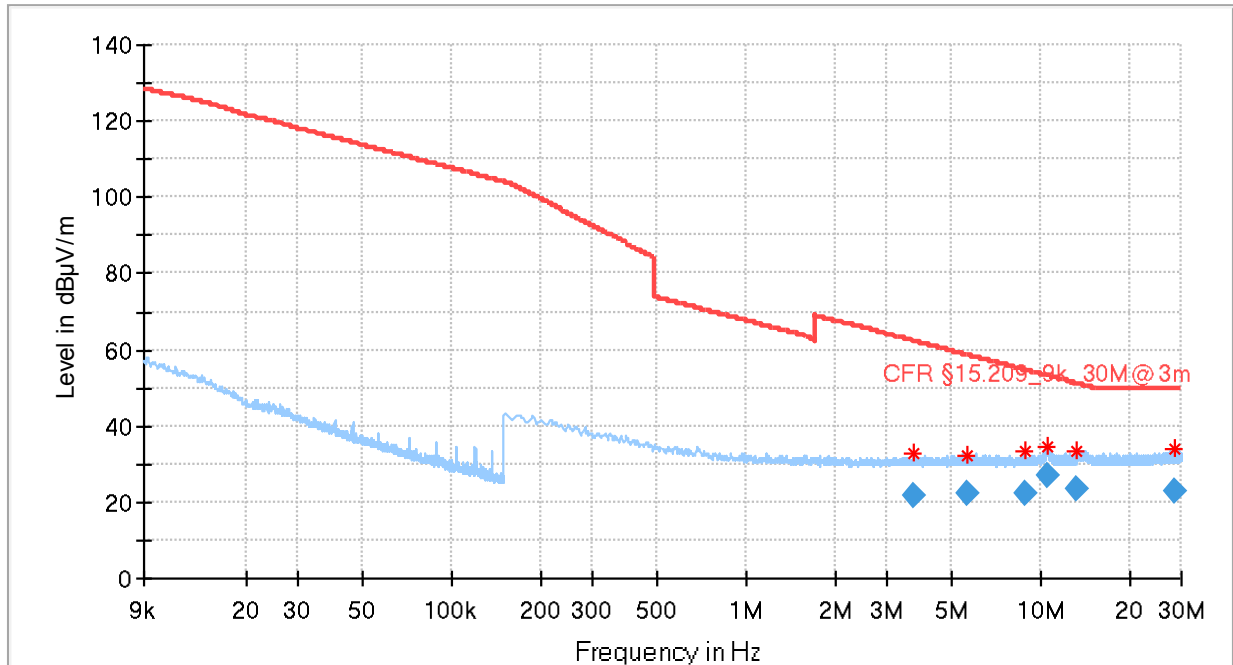


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|---------------|------------|
| 4.528500 | 21.98 | 60.52 | 38.53 | 15000.0 | 9.000 | 120.0 | 20.3 |
| 8.349000 | 21.96 | 55.16 | 33.20 | 15000.0 | 9.000 | 60.0 | 20.4 |
| 10.536000 | 27.32 | 53.14 | 25.82 | 15000.0 | 9.000 | 120.0 | 20.5 |
| 13.647750 | 24.07 | 50.89 | 26.82 | 15000.0 | 9.000 | 240.0 | 20.5 |
| 16.428750 | 21.83 | 49.54 | 27.71 | 15000.0 | 9.000 | 180.0 | 20.5 |
| 29.361750 | 22.86 | 49.54 | 26.68 | 15000.0 | 9.000 | 180.0 | 20.8 |

Plot 72: Mode 4, RSE 9 kHz – 30 MHz, high channel, loop antenna

Full Spectrum

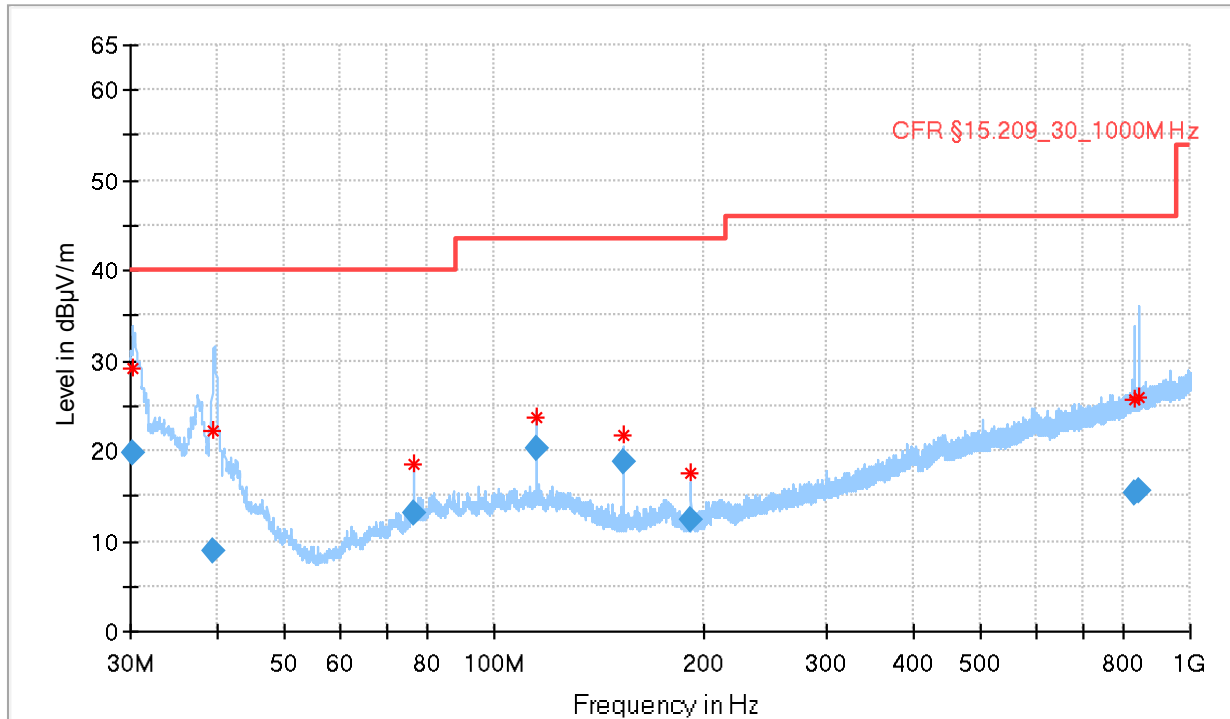


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|---------------|------------|
| 3.709500 | 21.66 | 62.27 | 40.60 | 15000.0 | 9.000 | 240.0 | 20.3 |
| 5.637750 | 22.04 | 58.59 | 36.56 | 15000.0 | 9.000 | 180.0 | 20.4 |
| 8.812500 | 22.07 | 54.68 | 32.61 | 15000.0 | 9.000 | 0.0 | 20.5 |
| 10.558500 | 26.99 | 53.12 | 26.13 | 15000.0 | 9.000 | 300.0 | 20.5 |
| 13.285500 | 23.49 | 51.12 | 27.63 | 15000.0 | 9.000 | 0.0 | 20.5 |
| 28.563000 | 22.86 | 49.54 | 26.68 | 15000.0 | 9.000 | 120.0 | 20.8 |

Plot 73: Mode 4, RSE 30 MHz – 1 GHz, low channel, horizontal / vertical polarisation

Full Spectrum

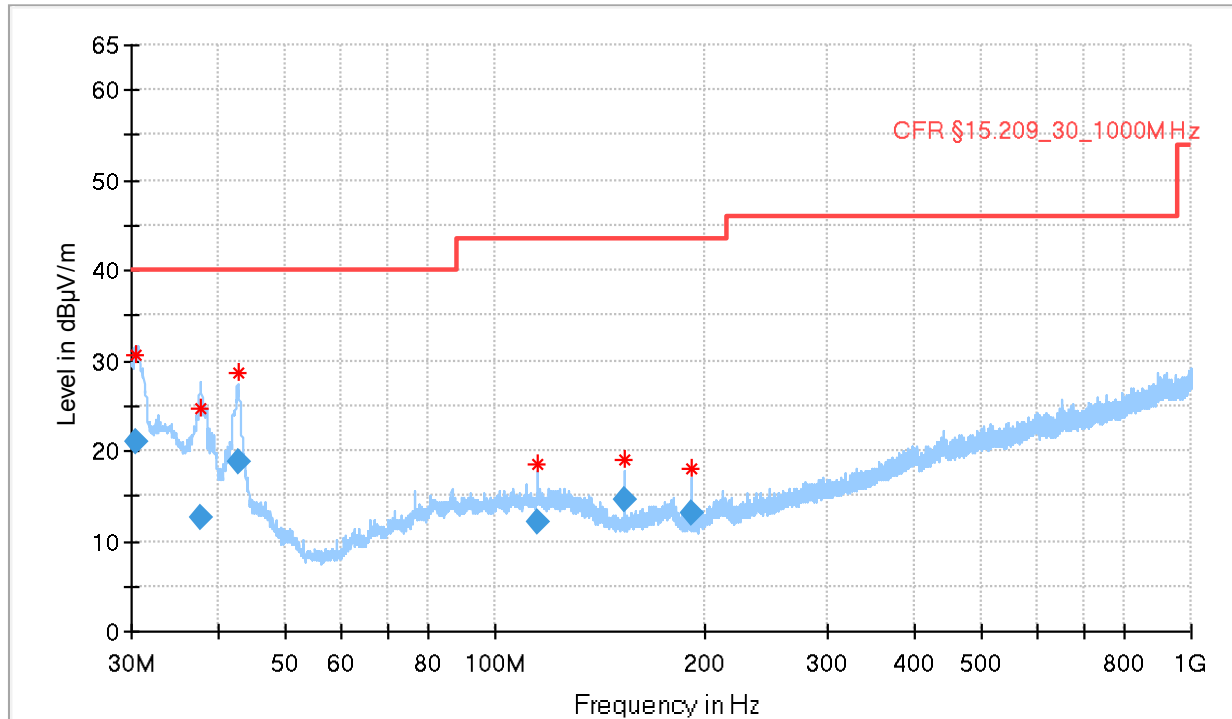


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 30.330000 | 19.76 | 40.00 | 20.24 | 15000.0 | 120.000 | 103.0 | V | -29.0 | 20.4 |
| 39.510000 | 8.89 | 40.00 | 31.11 | 15000.0 | 120.000 | 122.0 | V | 17.0 | 15.3 |
| 76.800000 | 13.17 | 40.00 | 26.83 | 15000.0 | 120.000 | 122.0 | V | 162.0 | 10.9 |
| 115.200000 | 20.19 | 43.50 | 23.31 | 15000.0 | 120.000 | 130.0 | V | 57.0 | 13.1 |
| 153.600000 | 18.68 | 43.50 | 24.82 | 15000.0 | 120.000 | 124.0 | H | -18.0 | 10.4 |
| 192.000000 | 12.34 | 43.50 | 31.16 | 15000.0 | 120.000 | 121.0 | H | 17.0 | 10.5 |
| 832.950000 | 15.22 | 46.00 | 30.78 | 15000.0 | 120.000 | 400.0 | V | 188.0 | 23.4 |
| 840.960000 | 15.55 | 46.00 | 30.45 | 15000.0 | 120.000 | 370.0 | V | 182.0 | 23.4 |

Plot 74: Mode 4, RSE 30 MHz – 1 GHz, mid channel, horizontal / vertical polarisation

Full Spectrum

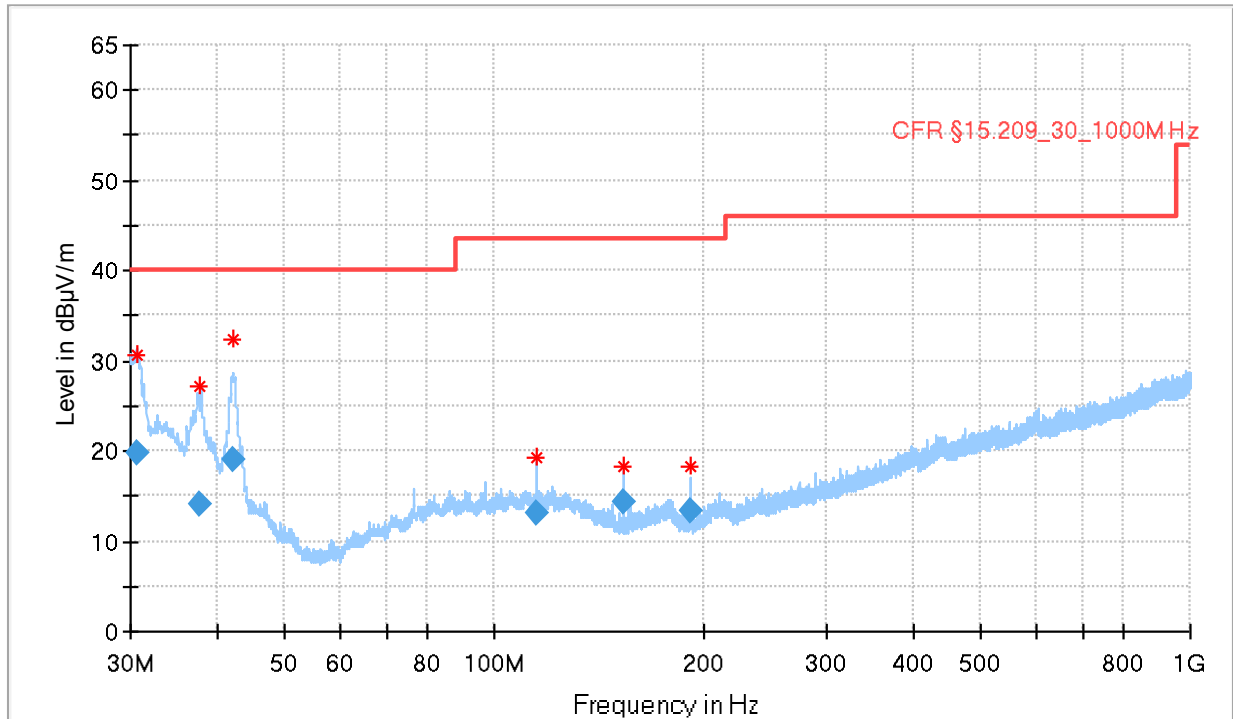


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 30.390000 | 20.89 | 40.00 | 19.11 | 15000.0 | 120.000 | 100.0 | V | 21.0 | 20.4 |
| 37.680000 | 12.72 | 40.00 | 27.28 | 15000.0 | 120.000 | 100.0 | V | 77.0 | 16.4 |
| 42.600000 | 18.85 | 40.00 | 21.15 | 15000.0 | 120.000 | 103.0 | V | 283.0 | 13.3 |
| 115.200000 | 12.03 | 43.50 | 31.47 | 15000.0 | 120.000 | 100.0 | V | 257.0 | 13.1 |
| 153.600000 | 14.59 | 43.50 | 28.91 | 15000.0 | 120.000 | 100.0 | V | 167.0 | 10.4 |
| 192.000000 | 13.07 | 43.50 | 30.43 | 15000.0 | 120.000 | 103.0 | H | 9.0 | 10.5 |

Plot 75: Mode 4, RSE 30 MHz – 1 GHz, high channel, horizontal / vertical polarisation

Full Spectrum

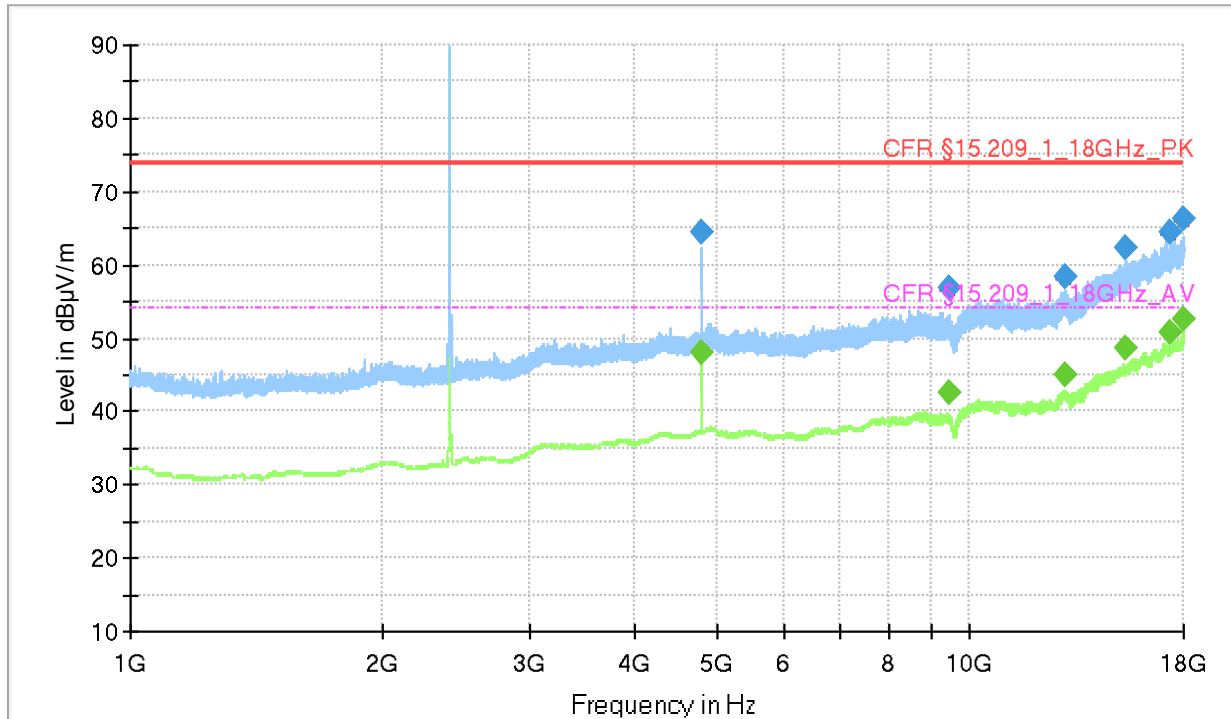


Final Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|--------------|
| 30.660000 | 19.70 | 40.00 | 20.30 | 15000.0 | 120.000 | 100.0 | V | -28.0 | 20.2 |
| 37.830000 | 14.19 | 40.00 | 25.81 | 15000.0 | 120.000 | 100.0 | V | 17.0 | 16.3 |
| 42.060000 | 19.03 | 40.00 | 20.97 | 15000.0 | 120.000 | 122.0 | V | 236.0 | 13.7 |
| 115.200000 | 13.00 | 43.50 | 30.50 | 15000.0 | 120.000 | 130.0 | V | 37.0 | 13.1 |
| 153.600000 | 14.46 | 43.50 | 29.04 | 15000.0 | 120.000 | 100.0 | V | 178.0 | 10.4 |
| 192.000000 | 13.46 | 43.50 | 30.04 | 15000.0 | 120.000 | 130.0 | H | -17.0 | 10.5 |

Plot 76: Mode 4, RSE 1 GHz – 18 GHz, low channel, horizontal / vertical polarisation

Full Spectrum

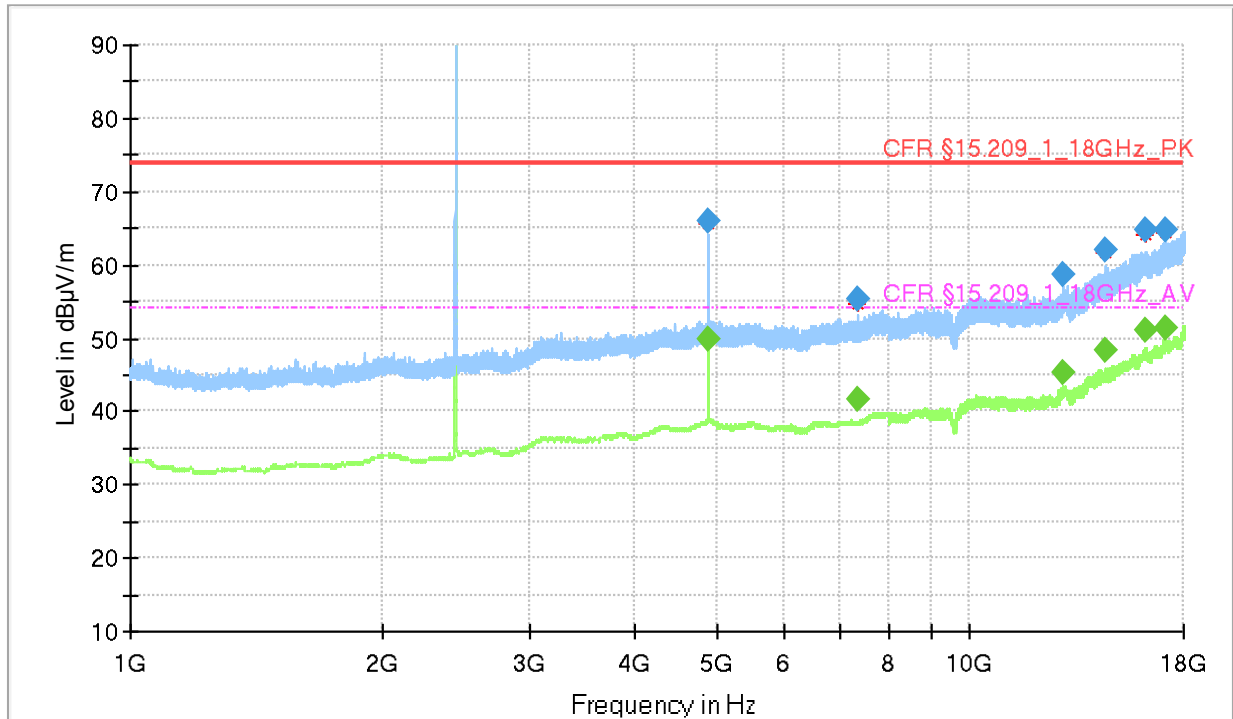


Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|------------|
| 4803.925000 | 64.32 | --- | 74.00 | 9.68 | 15000.0 | 1000.000 | V | 229.0 | 20.4 |
| 4803.925000 | --- | 48.14 | 54.00 | 5.86 | 15000.0 | 1000.000 | V | 229.0 | 20.4 |
| 9434.875000 | 56.89 | --- | 74.00 | 17.11 | 15000.0 | 1000.000 | H | 300.0 | 26.2 |
| 9434.875000 | --- | 42.63 | 54.00 | 11.37 | 15000.0 | 1000.000 | H | 300.0 | 26.2 |
| 12987.000000 | 58.46 | --- | 74.00 | 15.54 | 15000.0 | 1000.000 | H | 249.0 | 29.3 |
| 12987.000000 | --- | 45.07 | 54.00 | 8.93 | 15000.0 | 1000.000 | H | 249.0 | 29.3 |
| 15361.200000 | 62.25 | --- | 74.00 | 11.75 | 15000.0 | 1000.000 | V | 2.0 | 33.1 |
| 15361.200000 | --- | 48.74 | 54.00 | 5.26 | 15000.0 | 1000.000 | V | 2.0 | 33.1 |
| 17344.900000 | --- | 50.91 | 54.00 | 3.09 | 15000.0 | 1000.000 | H | 217.0 | 35.8 |
| 17344.900000 | 64.50 | --- | 74.00 | 9.50 | 15000.0 | 1000.000 | H | 217.0 | 35.8 |
| 17947.870000 | 66.30 | --- | 74.00 | 7.70 | 15000.0 | 1000.000 | H | 295.0 | 37.3 |
| 17947.870000 | --- | 52.64 | 54.00 | 1.36 | 15000.0 | 1000.000 | H | 295.0 | 37.3 |

Plot 77: Mode 4, RSE 1 GHz – 18 GHz, mid channel, horizontal / vertical polarisation

Full Spectrum

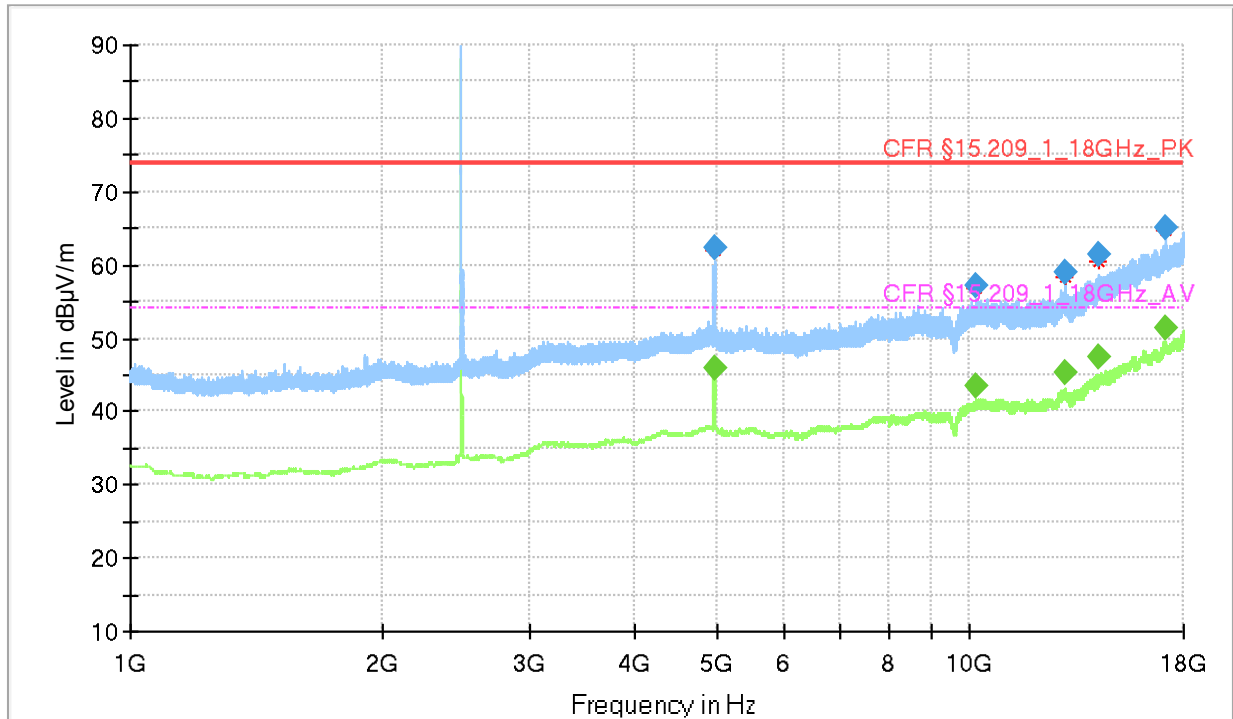


Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|------------|
| 4879.900000 | 66.11 | --- | 74.00 | 7.89 | 15000.0 | 1000.000 | V | 282.0 | 20.6 |
| 4879.900000 | --- | 49.84 | 54.00 | 4.16 | 15000.0 | 1000.000 | V | 282.0 | 20.6 |
| 7383.950000 | --- | 41.52 | 54.00 | 12.48 | 15000.0 | 1000.000 | V | 269.0 | 23.5 |
| 7383.950000 | 55.24 | --- | 74.00 | 18.76 | 15000.0 | 1000.000 | V | 269.0 | 23.5 |
| 12926.47500 | 58.63 | --- | 74.00 | 15.37 | 15000.0 | 1000.000 | H | 133.0 | 29.2 |
| 12926.47500 | --- | 45.29 | 54.00 | 8.71 | 15000.0 | 1000.000 | H | 133.0 | 29.2 |
| 14566.47500 | 62.05 | --- | 74.00 | 11.95 | 15000.0 | 1000.000 | V | 52.0 | 32.5 |
| 14566.47500 | --- | 48.18 | 54.00 | 5.82 | 15000.0 | 1000.000 | V | 52.0 | 32.5 |
| 16236.35000 | 64.88 | --- | 74.00 | 9.12 | 15000.0 | 1000.000 | H | 11.0 | 34.0 |
| 16236.35000 | --- | 50.96 | 54.00 | 3.04 | 15000.0 | 1000.000 | H | 11.0 | 34.0 |
| 17147.00000 | 64.89 | --- | 74.00 | 9.11 | 15000.0 | 1000.000 | V | 249.0 | 35.5 |
| 17147.00000 | --- | 51.27 | 54.00 | 2.73 | 15000.0 | 1000.000 | V | 249.0 | 35.5 |

Plot 78: Mode 4, RSE 1 GHz – 18 GHz, high channel, horizontal / vertical polarisation

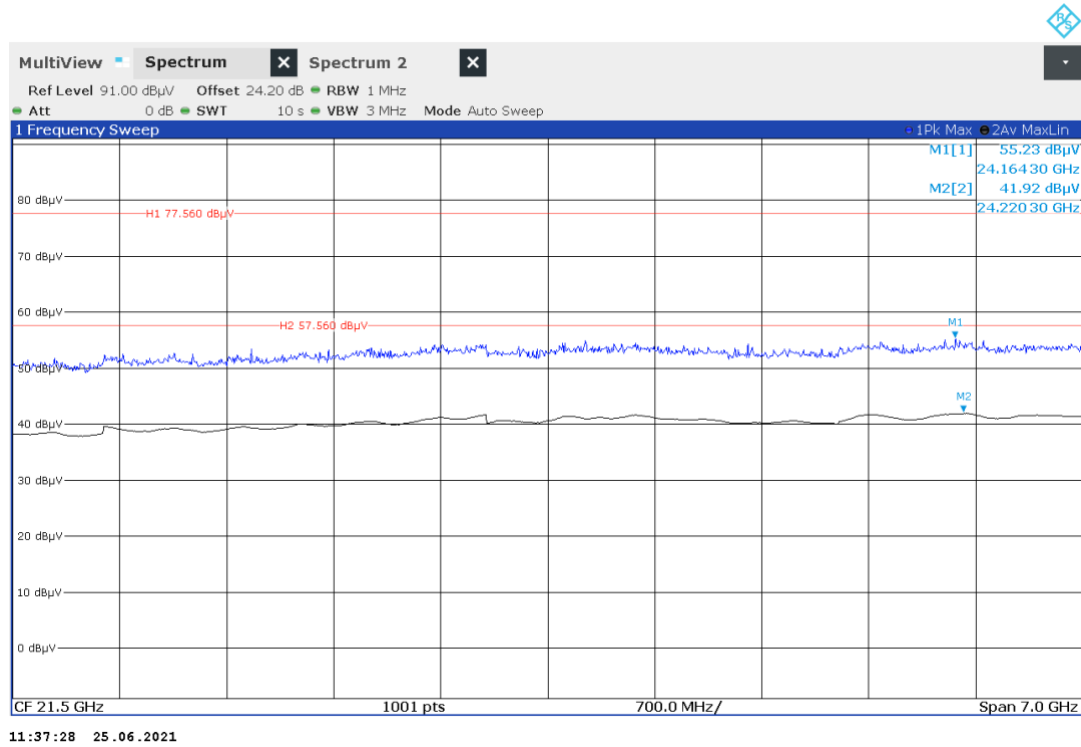
Full Spectrum



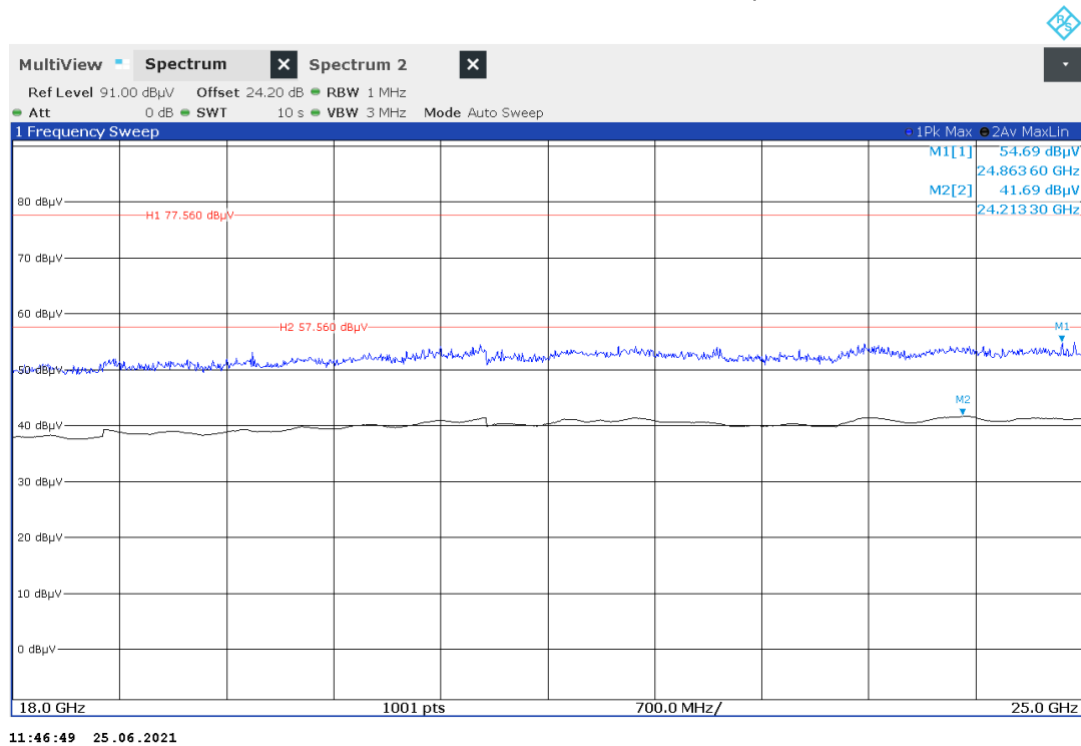
Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|------------|
| 4960.975000 | 62.26 | --- | 74.00 | 11.74 | 15000.0 | 1000.000 | V | 333.0 | 20.8 |
| 4960.975000 | --- | 46.00 | 54.00 | 8.00 | 15000.0 | 1000.000 | V | 333.0 | 20.8 |
| 10207.57500 | 57.01 | --- | 74.00 | 16.99 | 15000.0 | 1000.000 | H | 341.0 | 26.9 |
| 10207.57500 | --- | 43.53 | 54.00 | 10.47 | 15000.0 | 1000.000 | H | 341.0 | 26.9 |
| 12972.12500 | 58.88 | --- | 74.00 | 15.12 | 15000.0 | 1000.000 | H | 244.0 | 29.2 |
| 12972.12500 | --- | 45.14 | 54.00 | 8.86 | 15000.0 | 1000.000 | H | 244.0 | 29.2 |
| 14286.47500 | --- | 47.33 | 54.00 | 6.67 | 15000.0 | 1000.000 | V | 51.0 | 32.0 |
| 14286.47500 | 61.52 | --- | 74.00 | 12.48 | 15000.0 | 1000.000 | V | 51.0 | 32.0 |
| 17095.50000 | --- | 51.36 | 54.00 | 2.64 | 15000.0 | 1000.000 | H | 58.0 | 35.4 |
| 17095.50000 | 65.19 | --- | 74.00 | 8.81 | 15000.0 | 1000.000 | H | 58.0 | 35.4 |

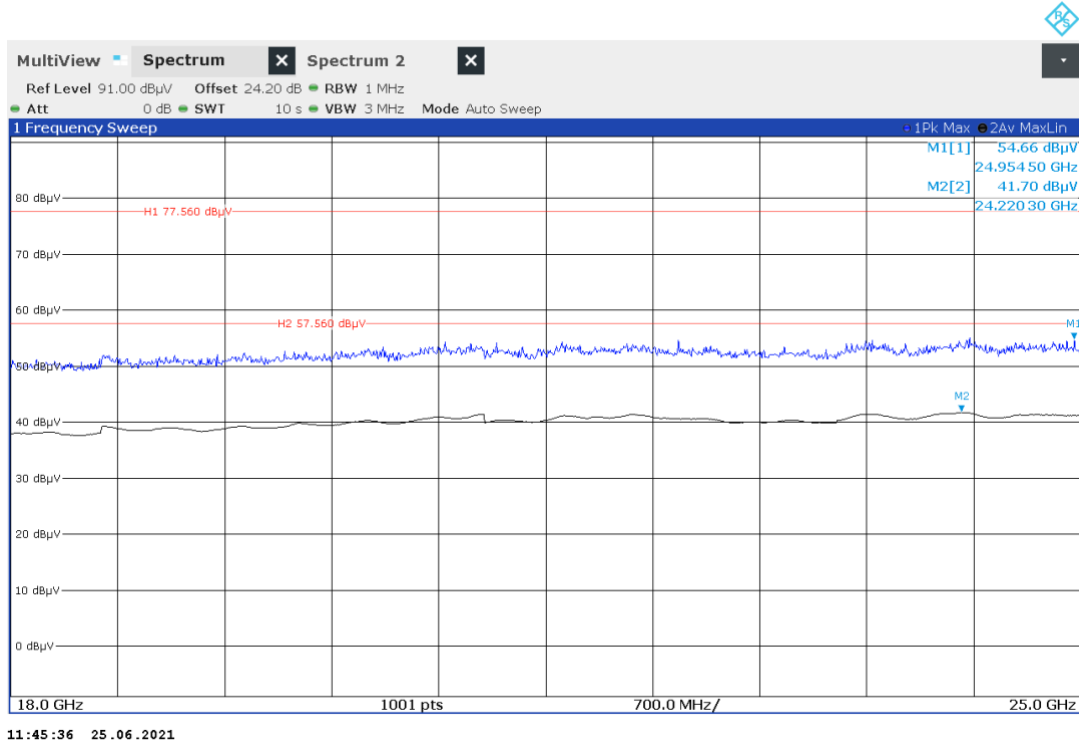
Plot 79: Mode 4, RSE 18 GHz – 25 GHz, low channel, horizontal / vertical polarisation



Plot 80: Mode 4, RSE 18 GHz – 25 GHz, mid channel, horizontal / vertical polarisation



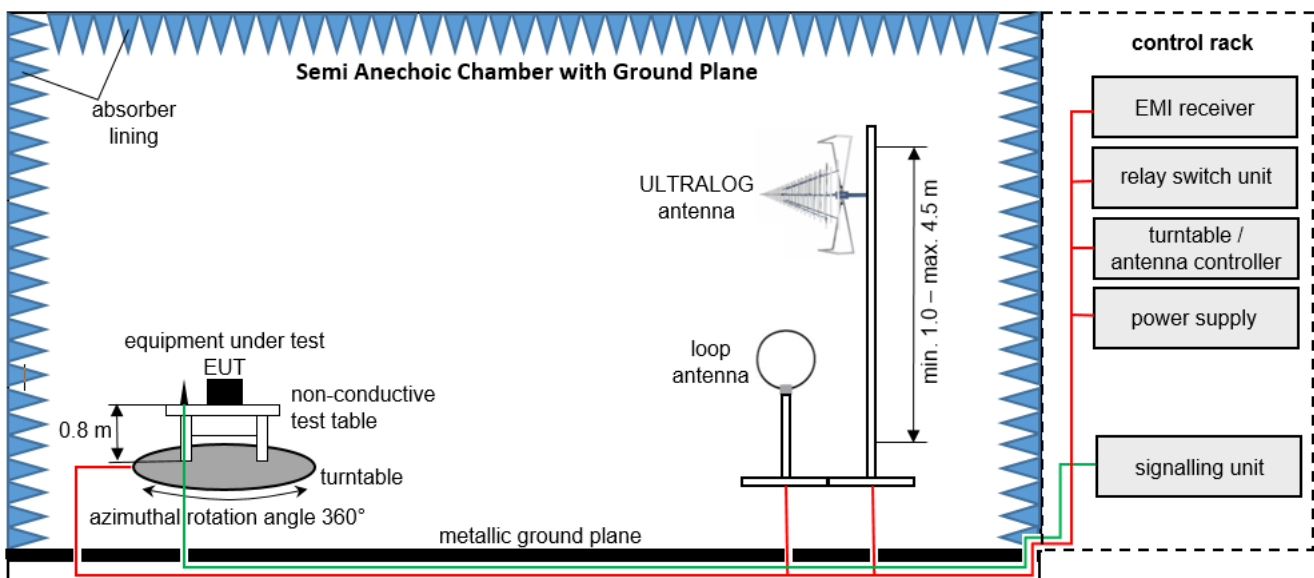
Plot 81: Mode 4, RSE 18 GHz – 25 GHz, high channel, horizontal / vertical polarisation



8 TEST SETUP DESCRIPTION

8.1 Semi Anechoic Chamber with Ground Plane

Radiated measurements are performed in vertical and horizontal plane in the frequency range 30 MHz to 1 GHz in a Semi Anechoic Chamber with a metallic ground plane. The EUT is positioned on a non-conductive test table with a height of 0.80 m above the metallic ground plane that covers the whole chamber. The receiving antennas conform to specification ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices. These antennas can be moved over the height range between 1.0 m and 4.5 m in order to search for maximum field strength emitted from the EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by a spectrum analyzer where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: loop antenna 3 m, ULTRALOG antenna 3 m
 EMC32 software version: 11.10.00

$$FS = UR + CL + AF$$

(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

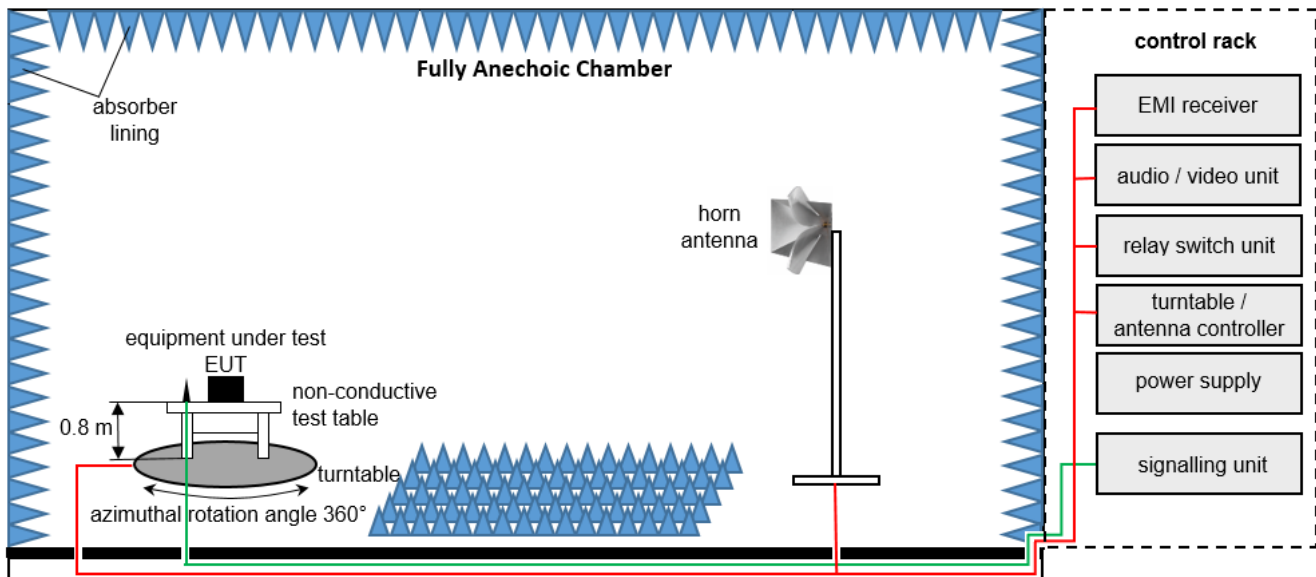
Example calculation:

$$FS \text{ [dB}\mu\text{V/m]} = 12.35 \text{ [dB}\mu\text{V/m]} + 1.90 \text{ [dB]} + 16.80 \text{ [dB/m]} = 31.05 \text{ [dB}\mu\text{V/m]} \text{ (35.69 } \mu\text{V/m)}$$

List of test equipment used:

| No. | Equipment | Manufacturer | Type | Serial No. | INV. No. | Last / Next Calibration |
|-----|----------------------------------|---------------------------------|--------------------------------|--------------|-----------|----------------------------|
| 1 | Power Supply | Elektro-Automatik GmbH & Co. KG | EA-PSI 9080-40 T | 2000230001 | LAB000313 | – |
| 2 | Test table | innco systems GmbH | PT1208-080-RH | - | LAB000306 | – |
| 3 | Power Supply | Chroma | 61604 | 616040005416 | LAB000285 | – |
| 4 | Positioner | matur GmbH | TD 1.5-10KG | | LAB000258 | – |
| 5 | Compressed Air | Implotex | 1-850-30 | - | LAB000256 | – |
| 6 | EMI Test Receiver | Rohde & Schwarz | ESW26 | 101481 | LAB000236 | 2020-06-03 → 2021-06-03 |
| 7 | Semi-Anechoic Chamber (SAC) | Albatross Projects GmbH | SAC 5 (Babylon 5) | 20168.PRB | LAB000235 | 2020-08-24 → 2021-08-24 |
| 8 | Measurement Software | Rohde & Schwarz | EMC32 V11.00.10 | | LAB000226 | – |
| 9 | Turntable | matur GmbH | TT2.0-2t | TT2.0-2t/921 | LAB000225 | – |
| 10 | Antenna Mast | matur GmbH | CAM4.0-P | CAM4.0-P/316 | LAB000224 | – |
| 11 | Antenna Mast | matur GmbH | BAM4.5-P | BAM4.5-P/272 | LAB000223 | – |
| 12 | Controller | matur GmbH | FCU 3.0 | 10082 | LAB000222 | – |
| 13 | Power Supply | Elektro-Automatik GmbH & Co. KG | PS 2042-10 B | 2878350292 | LAB000191 | – |
| 14 | Pre-Amplifier | Schwarzbeck Mess-Elektronik OHG | BBV 9718 C | 84 | LAB000169 | – |
| 15 | Open Switch and Control Platform | Rohde & Schwarz | OSP200 Base Unit 2HU | 101748 | LAB000149 | 2020-07-07 → 2021-07-07 |
| 16 | Antenna | Rohde & Schwarz | HL562E | 102001 | LAB000123 | 2020-07-05 → 2023-07-05 |
| 17 | Antenna | Rohde & Schwarz | HFH2-Z2E - Active Loop Antenna | 100954 | LAB000108 | 2020-03-25 → 2023-03-25 |
| 18 | EMI Test Receiver | Rohde & Schwarz | ESW26 | 101512 | LAB000363 | 2021-02-05 → 2022-02-05 |

8.2 Fully Anechoic Chamber



Measurement distance: horn antenna 3 meter

EMC32 software version: 11.10.00

$$FS = UR + CL + AF$$

(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

Example calculation:

$$FS [dB\mu V/m] = 12.35 [dB\mu V/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dB\mu V/m] (35.69 \mu V/m)$$

$$OP = AV + D - G + CA$$

(OP-radiated output power; AV-analyzer value; D-free field attenuation of measurement distance; G-antenna gain+amplifier gain; CA-loss signal path)

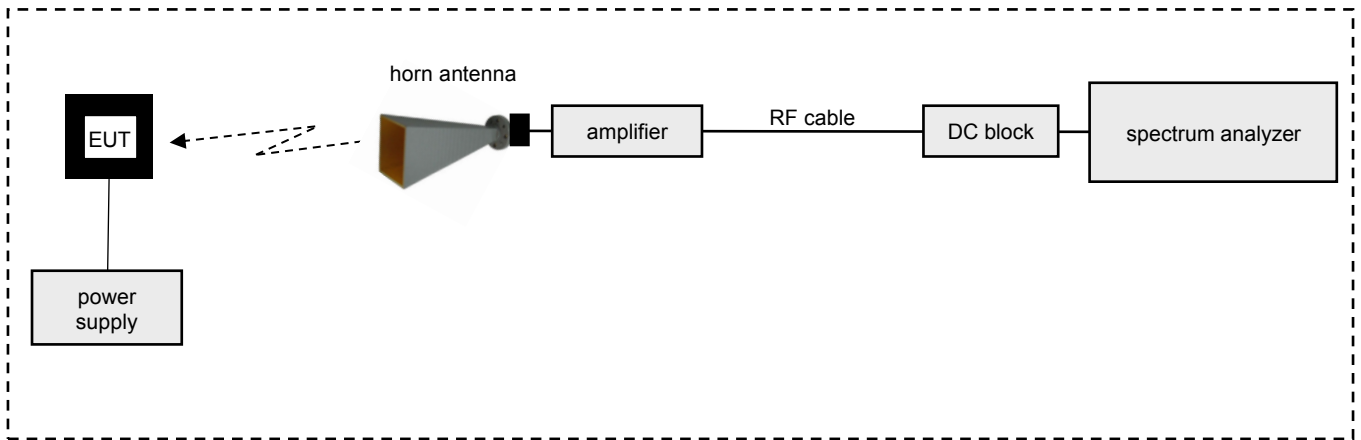
Example calculation:

$$OP [dBm] = -65.0 [dBm] + 50 [dB] - 20 [dBi] + 5 [dB] = -30 [dBm] (1 \mu W)$$

List of test equipment used:

| No. | Equipment | Manufacturer | Type | Serial No. | INV. No. | Last / Next Calibration |
|-----|----------------------------------|---------------------------------|----------------------|--------------|-----------|----------------------------|
| 1 | Power Supply | Elektro-Automatik GmbH & Co. KG | EA-PSI 9080-40 T | 2000230001 | LAB000313 | – |
| 2 | Test table | innco systems GmbH | PT1208-080-RH | - | LAB000306 | – |
| 3 | Power Supply | Chroma | 61604 | 616040005416 | LAB000285 | – |
| 4 | Positioner | matur GmbH | TD 1.5-10KG | | LAB000258 | – |
| 5 | Compressed Air | Implotex | 1-850-30 | - | LAB000256 | – |
| 6 | EMI Test Receiver | Rohde & Schwarz | ESW26 | 101481 | LAB000236 | 2020-06-03 → 2021-06-03 |
| 7 | Semi-Anechoic Chamber (SAC) | Albatross Projects GmbH | SAC 5 (Babylon 5) | 20168.PRB | LAB000235 | 2020-08-24 → 2021-08-24 |
| 8 | Measurement Software | Rohde & Schwarz | EMC32 V11.00.10 | | LAB000226 | – |
| 9 | Turntable | matur GmbH | TT2.0-2t | TT2.0-2t/921 | LAB000225 | – |
| 10 | Antenna Mast | matur GmbH | BAM4.5-P | BAM4.5-P/272 | LAB000223 | – |
| 11 | Controller | matur GmbH | FCU 3.0 | 10082 | LAB000222 | – |
| 12 | Power Supply | Elektro-Automatik GmbH & Co. KG | PS 2042-10 B | 2878350292 | LAB000191 | – |
| 13 | Pre-Amplifier | Schwarzbeck Mess-Elektronik OHG | BBV 9718 C | 84 | LAB000169 | – |
| 14 | Open Switch and Control Platform | Rohde & Schwarz | OSP200 Base Unit 2HU | 101748 | LAB000149 | 2020-07-07 → 2021-07-07 |
| 15 | Antenna | Rohde & Schwarz | HF907 | 102898 | LAB000124 | 2020-04-23 → 2023-04-23 |
| 16 | EMI Test Receiver | Rohde & Schwarz | ESW26 | 101512 | LAB000363 | 2021-02-05 → 2022-02-05 |

8.3 Radiated measurements > 18 GHz

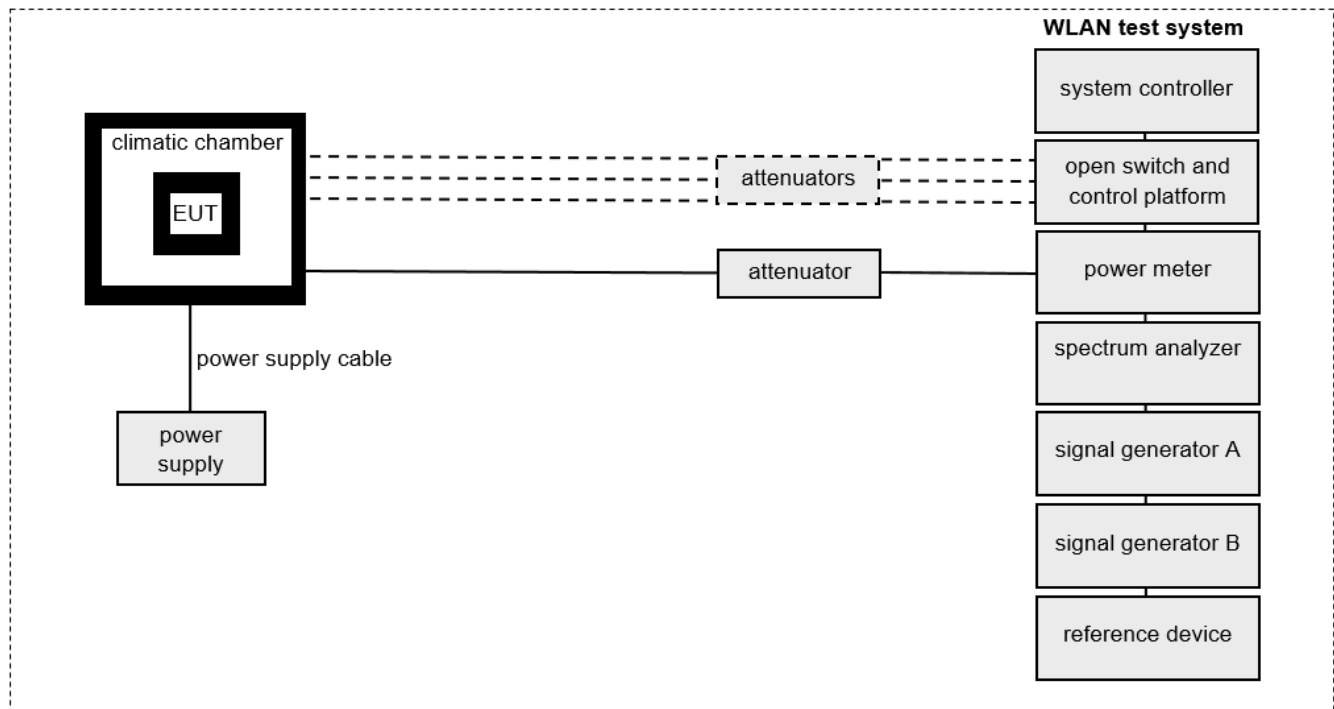


List of test equipment used:

| No. | Equipment | Manufacturer | Type | Serial No. | INV. No. | Last / Next Calibration |
|-----|-------------------|---------------------|----------------------|------------|-----------|----------------------------|
| 1 | Test table | innco systems GmbH | PT0707-RH light | - | LAB000303 | - |
| 2 | WG-Coax-Adapter | Flann Microwave Ltd | 20093-TF30 UBR220 | 273374 | LAB000181 | 2020-07-01 → 2021-07-01 |
| 3 | Coaxial Cable | Huber & Suhner | SF101/1.5m | 503987/1 | LAB000165 | 2020-06-05 → 2022-06-05 |
| 4 | Antenna | Flann Microwave Ltd | 20240-20 | 266403 | LAB000128 | 2020-06-29 → 2021-06-29 |
| 5 | Spectrum Analyser | Rohde & Schwarz | FSW50 | 101450 | LAB000111 | 2020-05-05 → 2022-05-05 |

8.4 Conducted measurements WLAN test system R&S TS 8997

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The losses for all signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



EMC32/WMS32 software version: 11.00.00

List of test equipment used:

| No. | Equipment | Manufacturer | Type | Serial No. | INV. No. | Last Verification |
|-----|----------------------------------|-----------------|--------------|------------|-----------|-------------------|
| 1 | TS8997-Rack | Rohde & Schwarz | TS8997-Rack | 100829 | LAB000322 | – |
| 2 | Open Switch and Control Platform | Rohde & Schwarz | OSP-B157WX | 101247 | LAB000280 | 2021-01-11 |
| 3 | Open Switch and Control Platform | Rohde & Schwarz | OSP-B157W8 | 100982 | LAB000279 | 2021-01-11 |
| 4 | Spectrum Analyser | Rohde & Schwarz | FSV40 | 101403 | LAB000278 | 2021-01-11 |
| 5 | Signal Generator | Rohde & Schwarz | SMBV100A | 258240 | LAB000277 | 2021-01-11 |
| 6 | Signal Generator | Rohde & Schwarz | SMB100A-20 | 178175 | LAB000276 | 2021-01-11 |
| 7 | Radio Communication Tester | Rohde & Schwarz | CMW270 | 101479 | LAB000275 | 2021-01-11 |
| 8 | Controller | Hewlett Packard | ATS-Z230 | 101379 | LAB000274 | – |
| 9 | Power Supply | EA | PS 2042-10 B | 2878350263 | LAB000190 | – |

9 MEASUREMENT UNCERTAINTIES

| | |
|--|-----------------------------|
| Radio frequency | $\leq \pm 1 \times 10^{-7}$ |
| RF power, conducted | $\leq \pm 0.75$ dB |
| Power spectral density | $\leq \pm 3$ dB |
| Maximum frequency deviation | $\leq \pm 5$ % |
| Deviation limitation Duty Cycle, Tx-sequence, Tx-gap | $\leq \pm 5$ % |
| Occupied channel bandwidth | $\leq \pm 5$ % |
| Conducted spurious emission of transmitter | $\leq \pm 4$ dB |
| Conducted emission of receivers | $\leq \pm 4$ dB |
| Radiated emission of transmitter | $\leq \pm 6$ dB |
| Radiated emission of receiver | $\leq \pm 6$ dB |
| Temperature | $\leq \pm 2.5$ °C |
| Humidity | $\leq \pm 10$ % |

The indicated expanded measurement uncertainty corresponds to the standard measurement uncertainty for the measurement results multiplied by the coverage factor $k = 2$. It was determined in accordance with EA-4/02 M:2013. The true value is located in the corresponding interval with a probability of 95 %.

Annex A EUT Photographs, external

Photo No. 1:



Photo No. 2:



Photo No. 3:



Photo No. 4:



Photo No. 5:

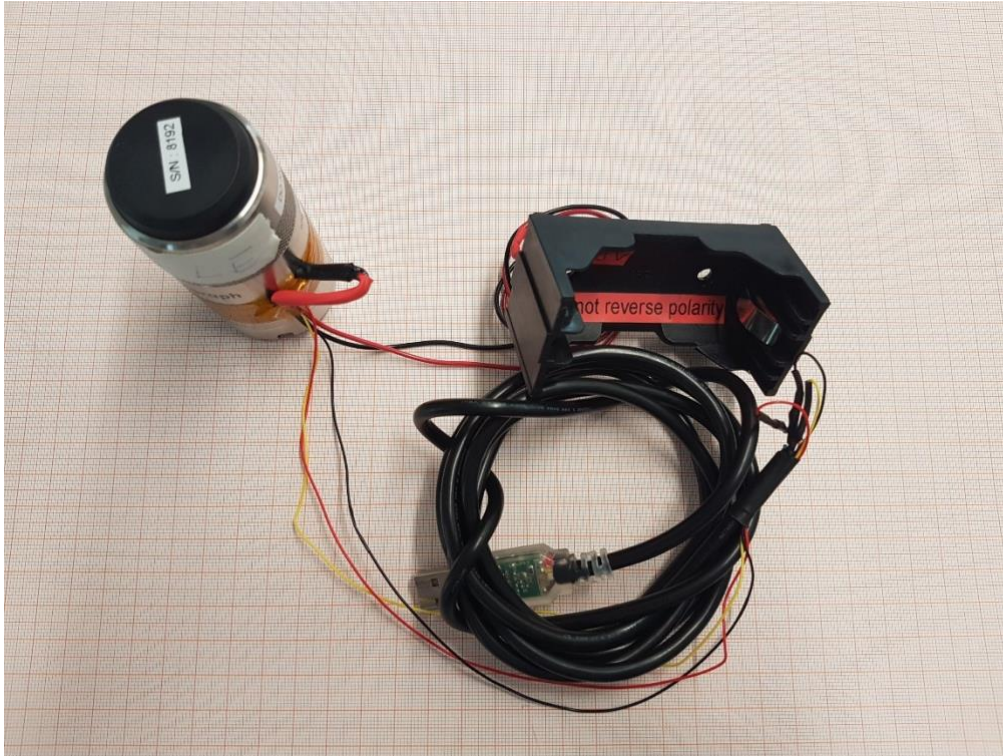


Photo No. 6:



Photo No. 7:



Photo No. 8:



Photo No. 9:



Photo No. 10:



Photo No. 11:



Annex B EUT Photographs, internal

Photo No. 12:

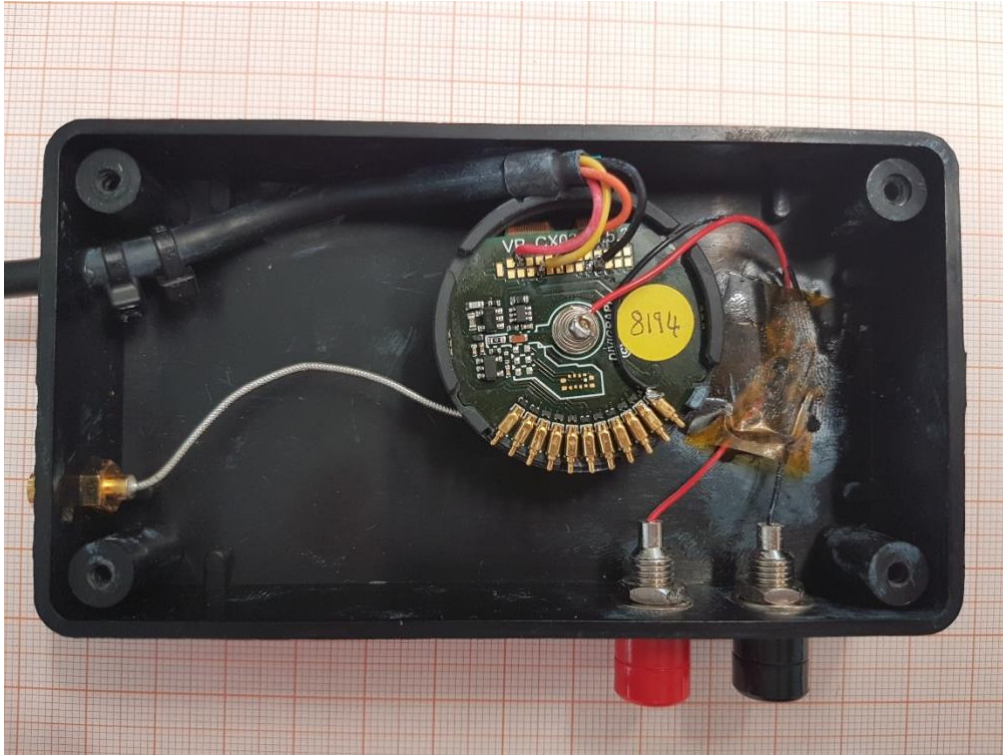
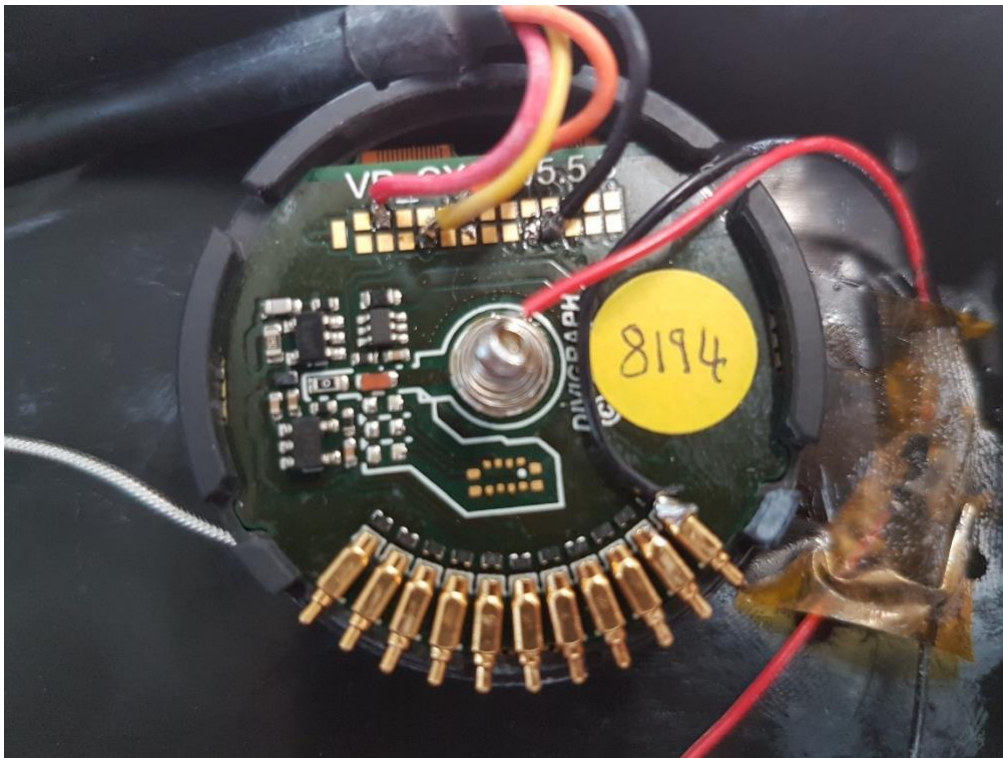


Photo No. 13:



TR no.: **20114772-18739-0**

2021-07-29

Photo No. 14:

Photo No. 15:

Annex C Test Setup Photographs

Photo No. 16:

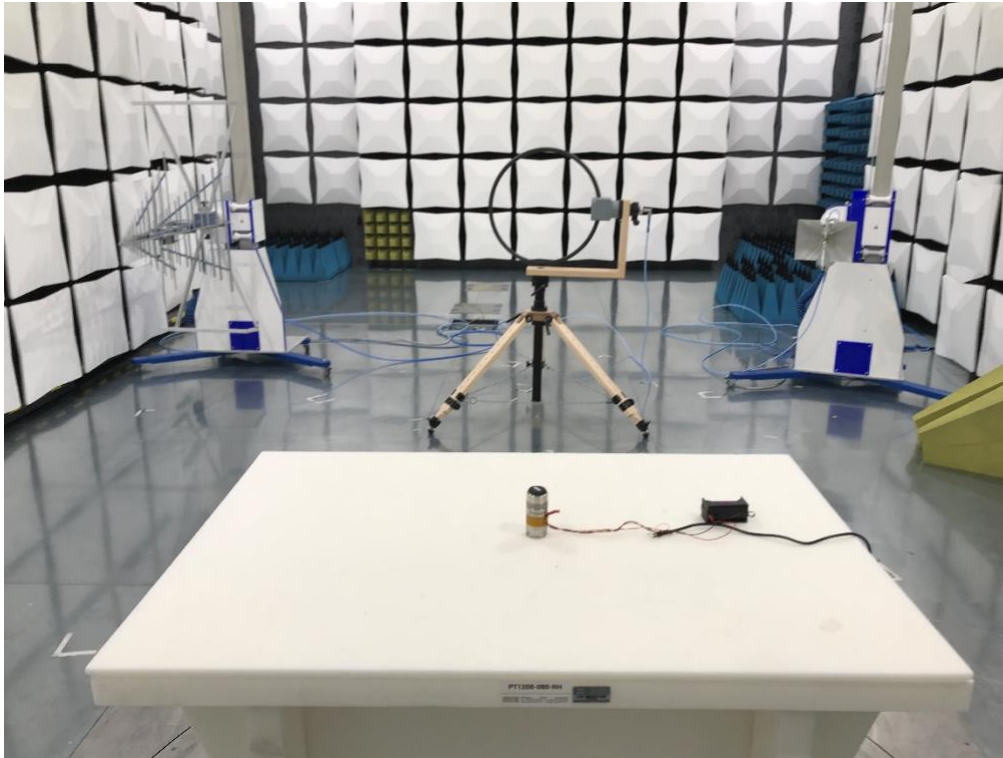


Photo No. 17:

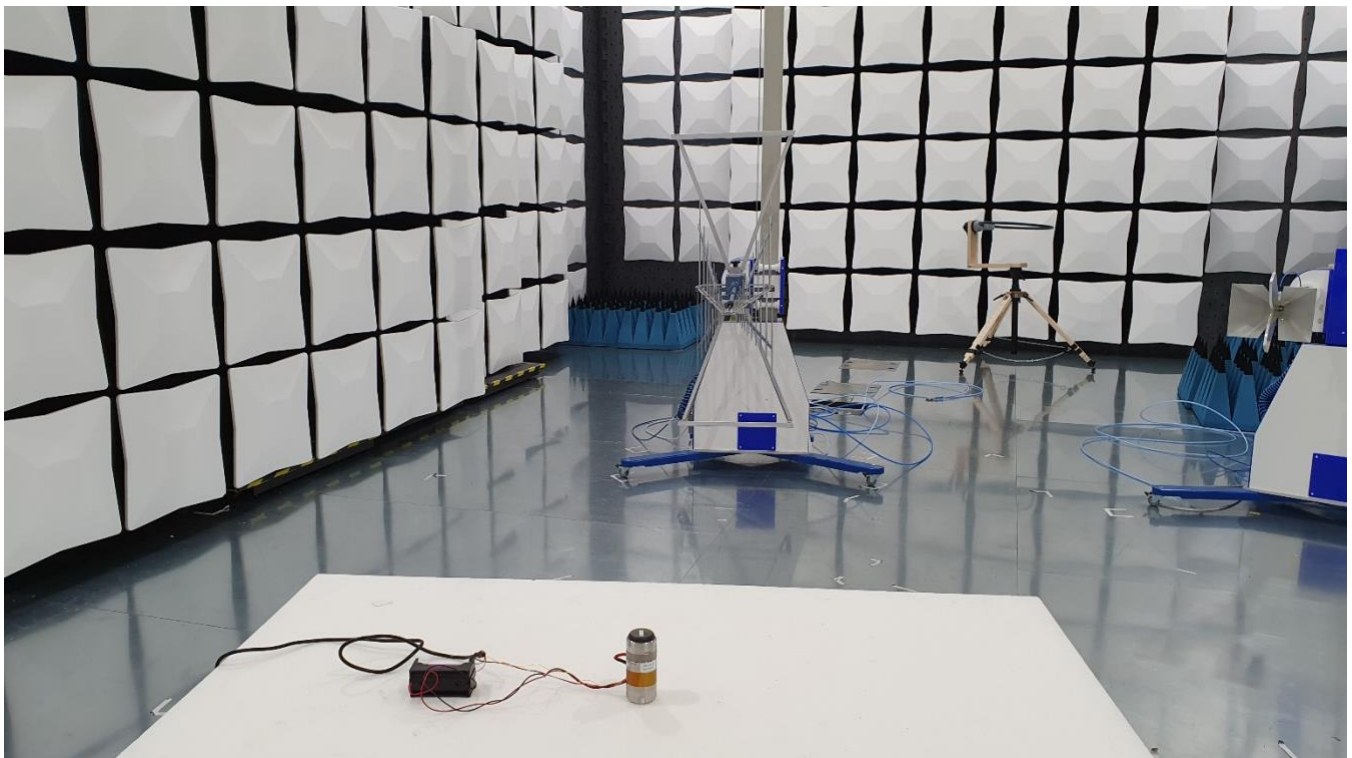


Photo No. 18:

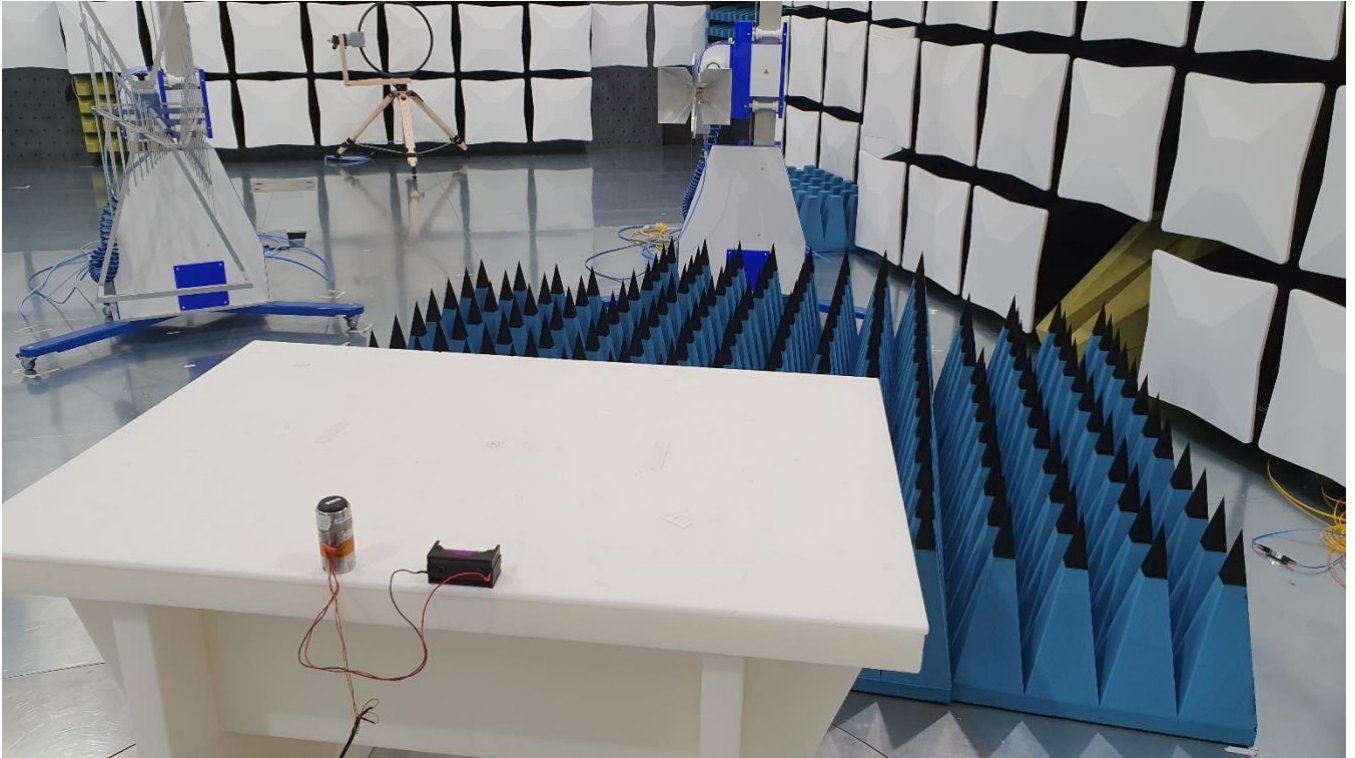


Photo No. 19:

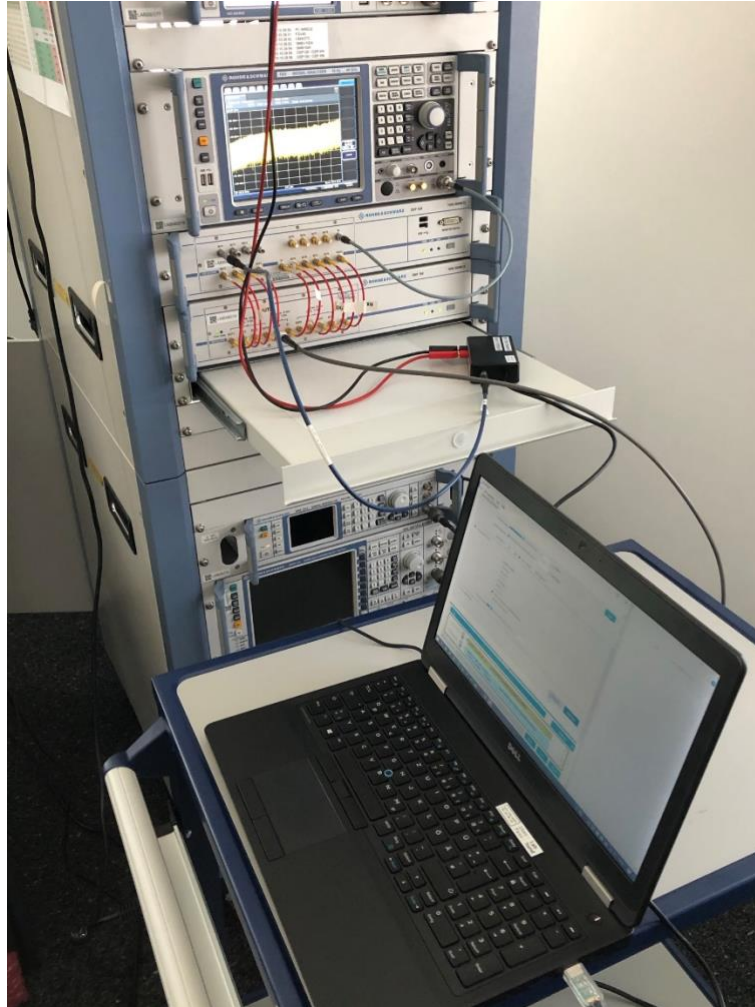


Photo No. 20:

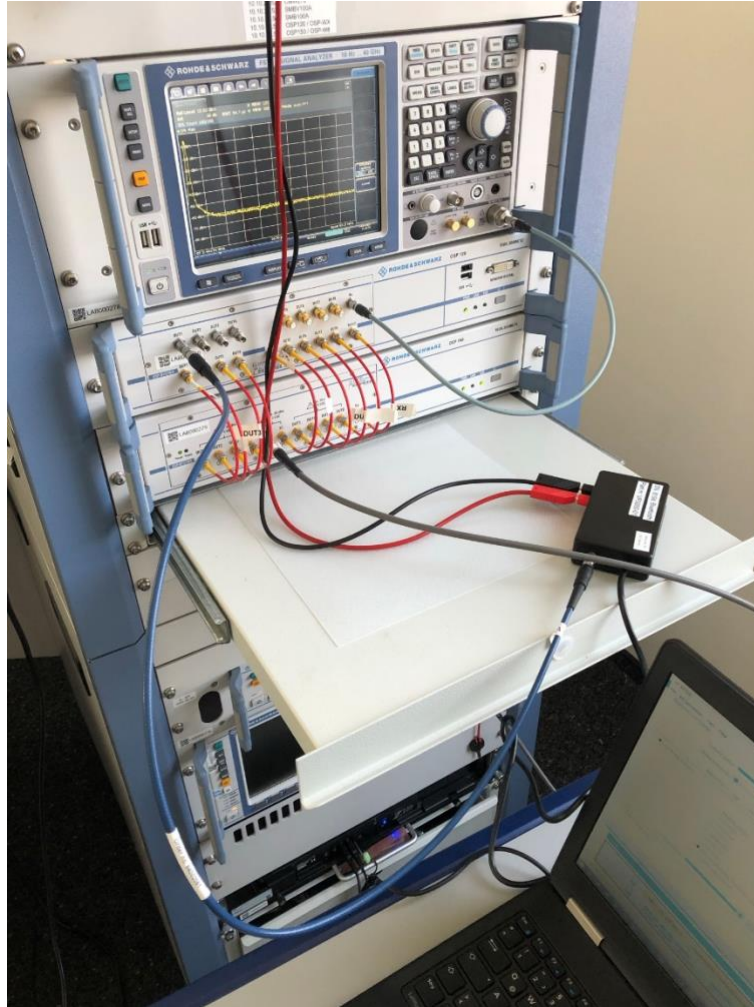


Photo No. 21:



End of Test Report
