

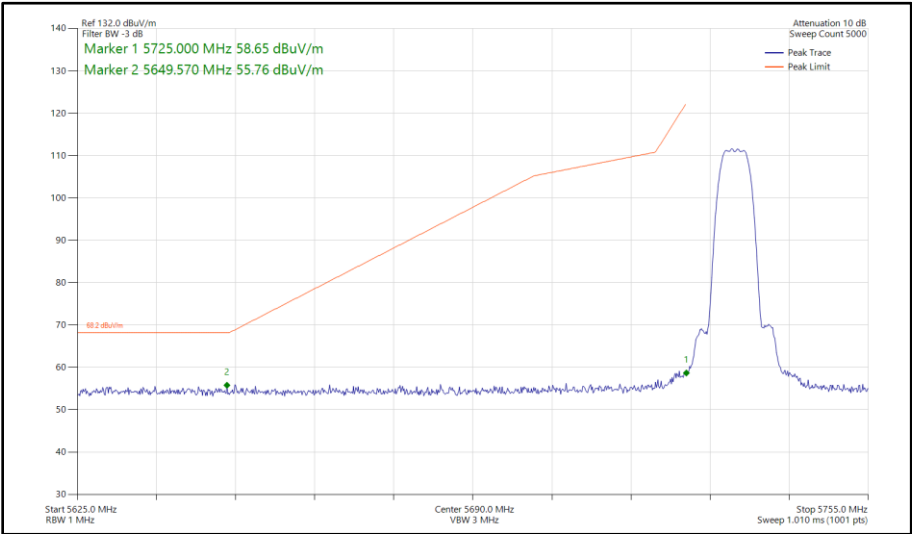


Figure 204 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5733 MHz  
Band Edge Frequency 5725 MHz

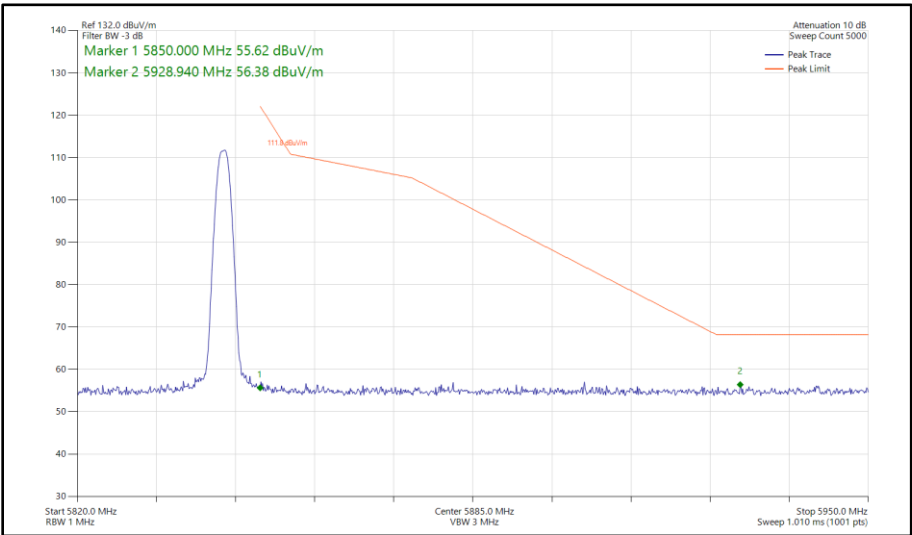


Figure 205 - Bluetooth DH5, MIMO, Core 0 - Core 1 - 5844 MHz  
Band Edge Frequency 5850 MHz

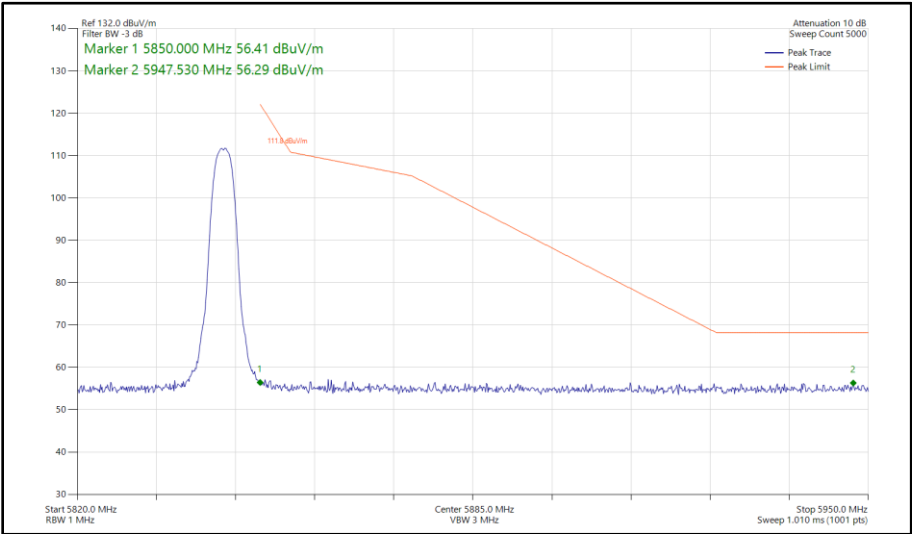


Figure 206 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5844 MHz  
Band Edge Frequency 5850 MHz

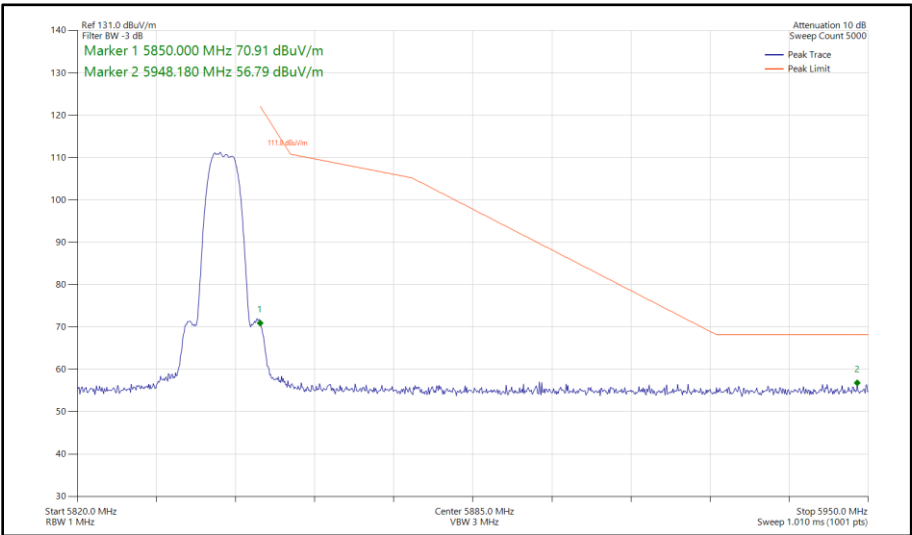


Figure 207 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5844 MHz  
Band Edge Frequency 5850 MHz

<res\_r#2TableStart>

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|---------------------------|---------------------|------------------------|
| <0>                       | <1>           | <2>                         | <3>                       | <4>                 | (6)                    |

Table 118

Table 119 - U-NII 2c - Authorised Band Edge Results



FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.2 and 6.2.5.3

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.

Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.



## 2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16 and RF Chamber 17.

| Instrument                          | Manufacturer       | Type No.             | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-------------------------------------|--------------------|----------------------|--------|-----------------------------|-------------------------|
| Emissions Software                  | TUV SUD            | EmX V3.4.2           | 5125   | -                           | Software                |
| Test Receiver                       | Rohde & Schwarz    | ESW44                | 5379   | 12                          | 12-Dec-2024             |
| 1500W (300V 12A) AC Power Supply    | iTech              | IT7324               | 5957   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber, Chamber16 | Albatross Projects | RF Chamber 16        | 5972   | 36                          | 24-May-2025             |
| Mast & Turntable Controller         | Maturo Gmbh        | FCU3.0               | 5973   | -                           | TU                      |
| Tilt Antenna Mast                   | Maturo Gmbh        | BAM4.5-P             | 5974   | -                           | TU                      |
| Turntable                           | Maturo Gmbh        | TT1.5SI              | 5975   | -                           | TU                      |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 6018   | 12                          | 10-Jun-2025             |
| Horn Antenna (1-10.5 GHz)           | Schwarzbeck        | BBHA9120B            | 6140   | 12                          | 05-May-2025             |
| SAC Switch Unit                     | TUV SUD            | TUV_SSU_001          | 6144   | 12                          | 11-Dec-2024             |
| Digital Multimeter                  | Fluke              | 115                  | 6146   | 12                          | 06-Jun-2025             |
| Digital Multimeter                  | Fluke              | 115                  | 6147   | 12                          | 06-Jun-2025             |
| EMI Test Receiver                   | Rohde & Schwarz    | ESW44                | 6294   | 12                          | 06-Jan-2025             |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 6315   | 12                          | 04-Feb-2025             |
| Cable (SMA to SMA 8m)               | Junkosha           | MWX221-08000AMSAMS/B | 6319   | -                           | 04-Feb-2025             |
| Humidity and Temperature Meter      | R.S Components     | 1364                 | 6346   | 12                          | 06-Mar-2025             |
| Humidity & Temperature meter        | R.S Components     | 1364                 | 6348   | 12                          | 06-Mar-2025             |
| SAC Switch Unit                     | TUV SUD            | TUV_SSU_004 PLC      | 6349   | 12                          | 07-May-2025             |
| Horn Antenna (1–10.5 GHz)           | Schwarzbeck        | BBHA 9120 B          | 6457   | 12                          | 05-May-2025             |
| AC Power Supply                     | iTech              | IT7324               | 6657   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber            | Albatross Projects | RF Chamber 17        | 6658   | 36                          | 28-Jan-2026             |
| Mast and Turntable Controller       | Maturo Gmbh        | FCU3.0               | 6659   | -                           | TU                      |
| Tilt Antenna Mast                   | Maturo Gmbh        | BAM4.5-P             | 6660   | -                           | TU                      |
| Turntable                           | Maturo Gmbh        | TT1.5SI              | 6661   | -                           | TU                      |
| 8m Cable                            | Junkosha           | MWX221-08000AMSAMS/B | 6748   | 12                          | 01-Feb-2025             |

**Table 120**

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



## **2.6 Spurious Radiated Emissions**

### **2.6.1 Specification Reference**

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)  
ISED RSS-247, Clause 6.2  
ISED RSS-GEN, Clause 6.13 and 8.9

### **2.6.2 Equipment Under Test and Modification State**

A3143, S/N: C3QWHF6CNX - Modification State 0

### **2.6.3 Date of Test**

12-August-2024 to 08-October-2024

### **2.6.4 Test Method**

Testing was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Ports on the EUT were terminated with loads as described in ANSI C63.10 clause 6.2.3.

Measurements were undertaken from 30 MHz to 40 GHz on 5180 MHz and 5825 MHz.

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

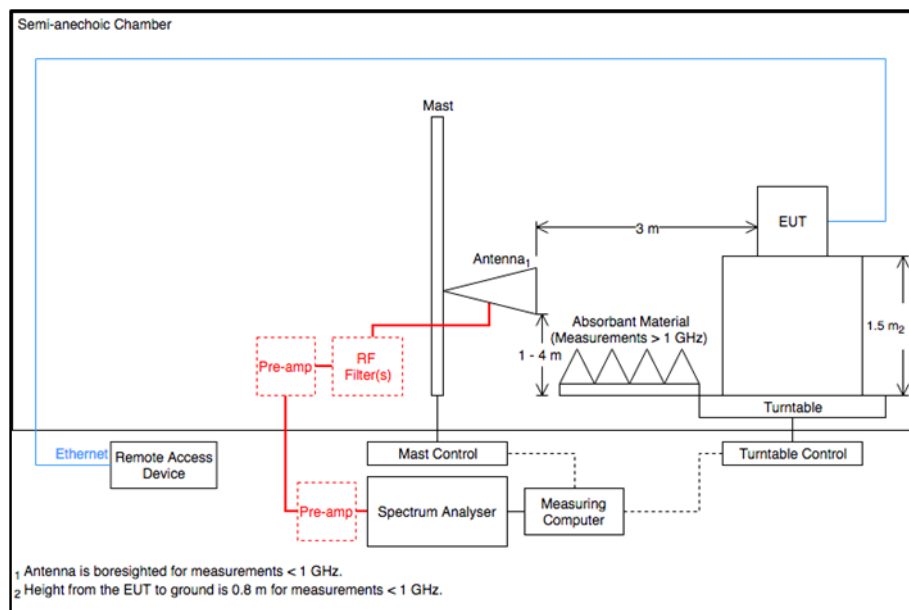
The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:  
 $10^{(\text{Field Strength in dBuV/m}/20)}$ .

EIRP was converted to field strength at 3m using the following formula:  
 $\text{Field Strength (dBuV/m at 3 m)} = \text{EIRP (dBm)} + 95.2 \text{ dB}$

Radiated spurious emissions tests have been conducted in DH5 (high power) mode as this represents worst case with respect to Power and PSD.

### 2.6.5 Test Setup Diagram



### Figure 208 - Radiated Emissions Test Setup Diagram

### 2.6.6 Environmental Conditions

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.5 - 23.2 °C |
| Relative Humidity   | 42.9 - 58.0 %  |

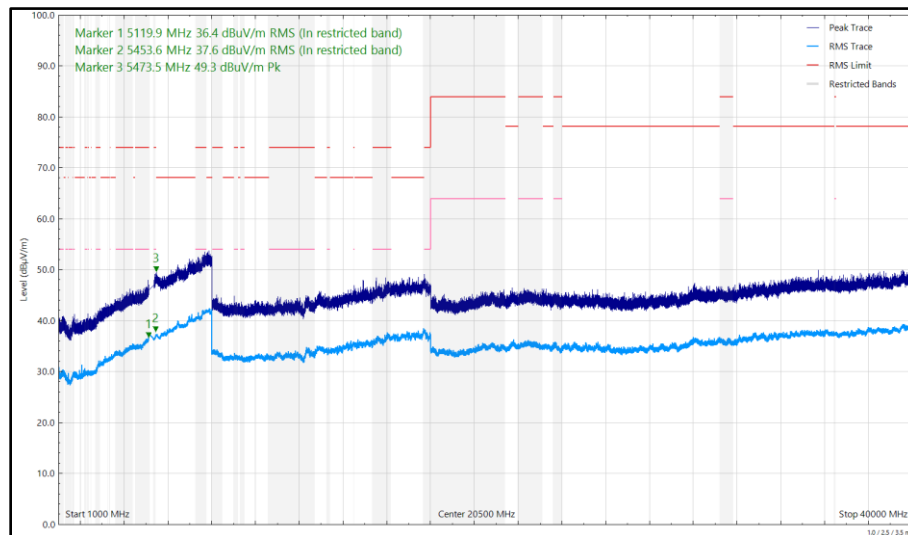
## 2.6.7 Test Results

### Narrowband

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5119.826        | 36.25          | 54.00          | -17.75      | RMS      | 49        | 347         | Vertical     |
| 5119.919        | 36.36          | 54.00          | -17.64      | RMS      | 17        | 400         | Horizontal   |
| 5453.580        | 37.56          | 54.00          | -16.44      | RMS      | 15        | 100         | Horizontal   |
| 5459.449        | 37.46          | 54.00          | -16.54      | RMS      | 354       | 198         | Vertical     |
| 5471.847        | 49.84          | 68.20          | -18.36      | Peak     | 352       | 100         | Vertical     |
| 5473.489        | 49.32          | 68.20          | -18.88      | Peak     | 242       | 395         | Horizontal   |

**Table 121 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 209 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

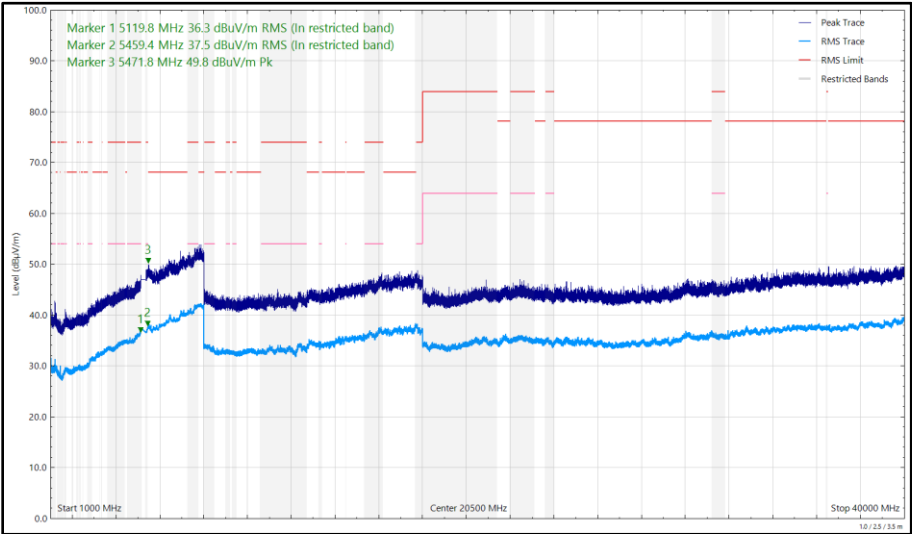
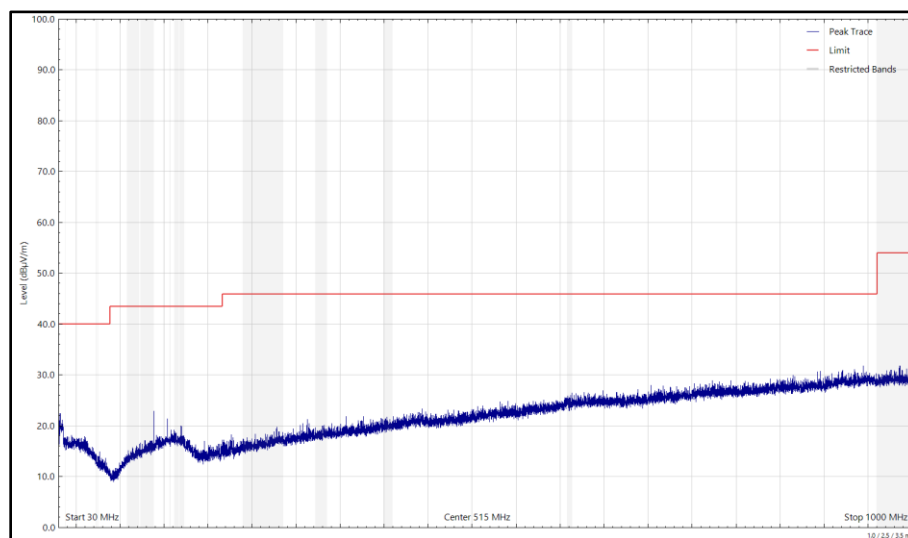


Figure 210 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

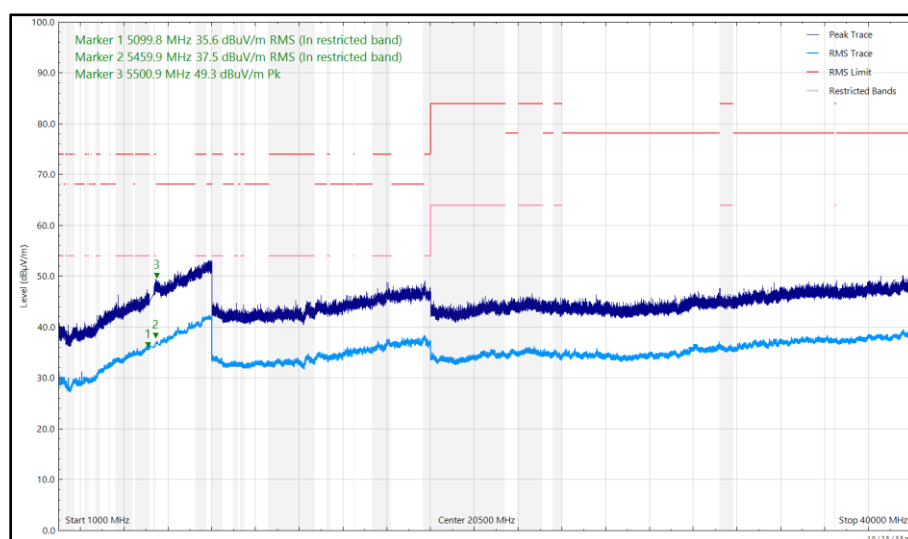
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5099.771        | 35.61          | 54.00          | -18.39      | RMS      | 242       | 101         | Horizontal   |
| 5147.013        | 35.72          | 54.00          | -18.28      | RMS      | 19        | 448         | Vertical     |
| 5457.257        | 37.48          | 54.00          | -16.52      | RMS      | 42        | 147         | Vertical     |
| 5459.870        | 37.53          | 54.00          | -16.47      | RMS      | 357       | 100         | Horizontal   |
| 5469.923        | 49.39          | 68.20          | -18.81      | Peak     | 195       | 105         | Vertical     |
| 5500.915        | 49.28          | 68.20          | -18.92      | Peak     | 232       | 107         | Horizontal   |

**Table 122 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 211 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 212 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

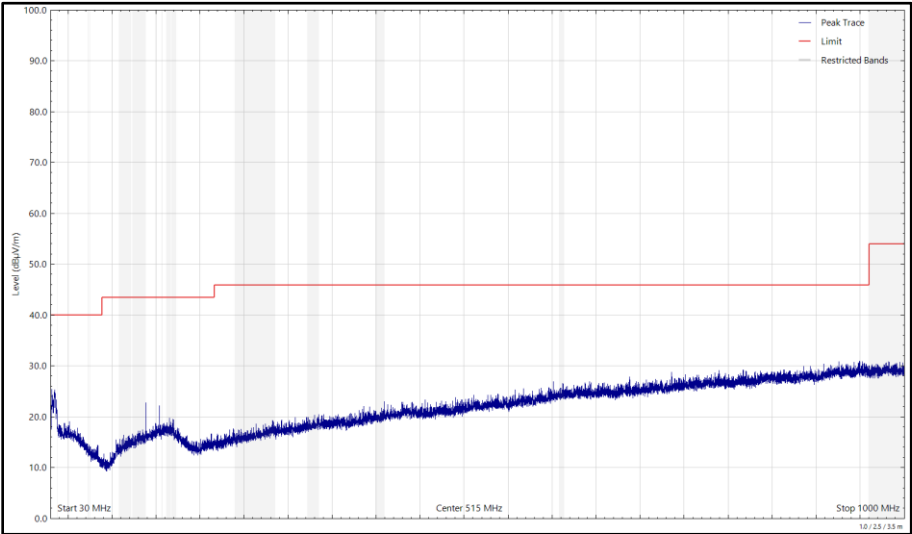


Figure 213 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

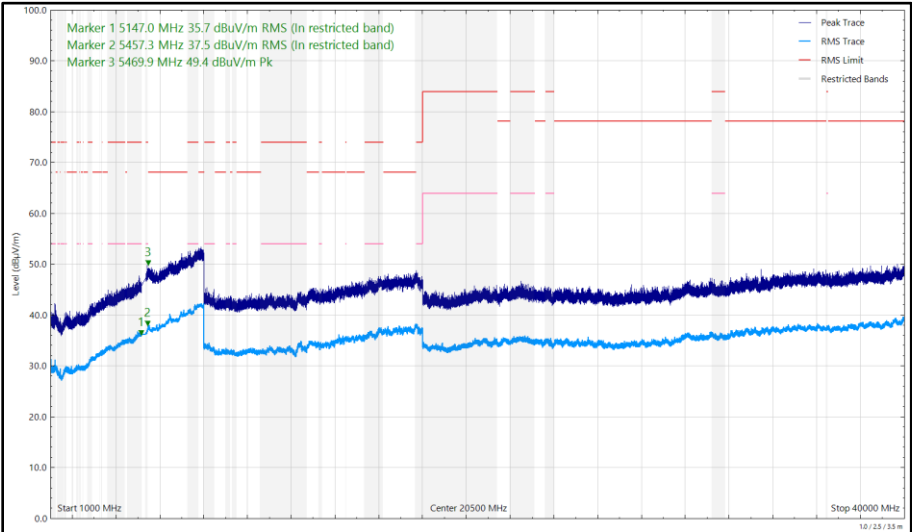


Figure 214 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5022.656        | 35.76          | 54.00          | -18.24      | RMS      | 264       | 101         | Vertical     |
| 5024.020        | 35.12          | 54.00          | -18.88      | RMS      | 304       | 126         | Horizontal   |
| 5456.314        | 36.98          | 54.00          | -17.02      | RMS      | 1         | 398         | Vertical     |
| 5459.707        | 36.79          | 54.00          | -17.21      | RMS      | 223       | 186         | Horizontal   |
| 5464.492        | 49.06          | 68.20          | -19.14      | Peak     | 269       | 100         | Horizontal   |
| 5473.222        | 49.06          | 68.20          | -19.14      | Peak     | 0         | 262         | Vertical     |

Table 123 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

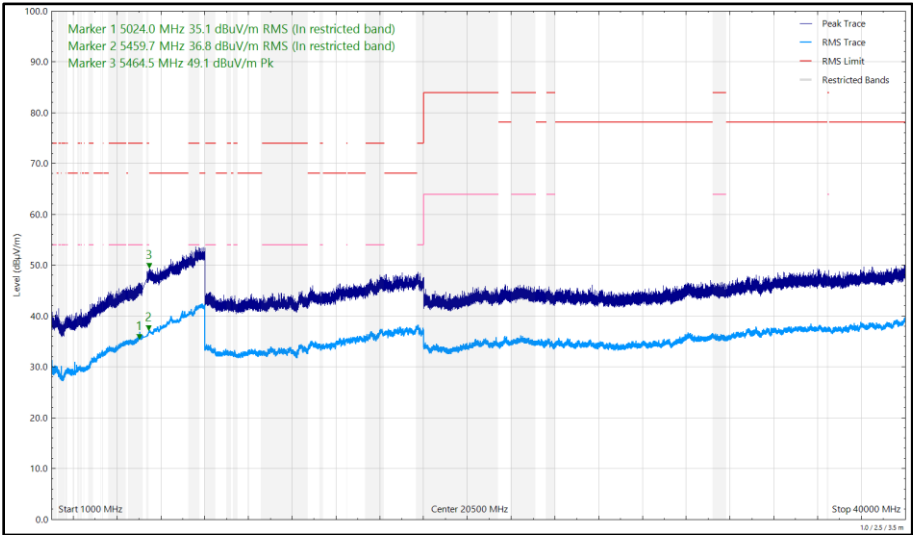


Figure 215 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

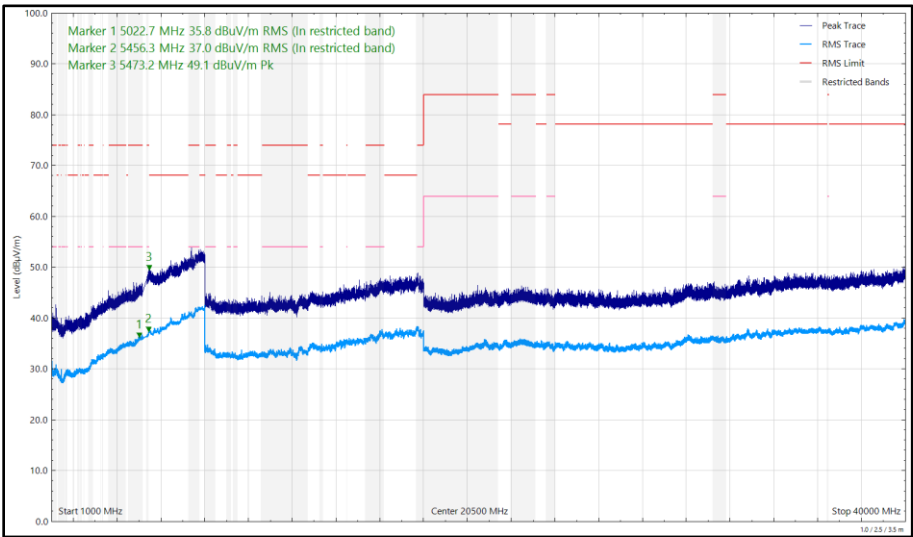
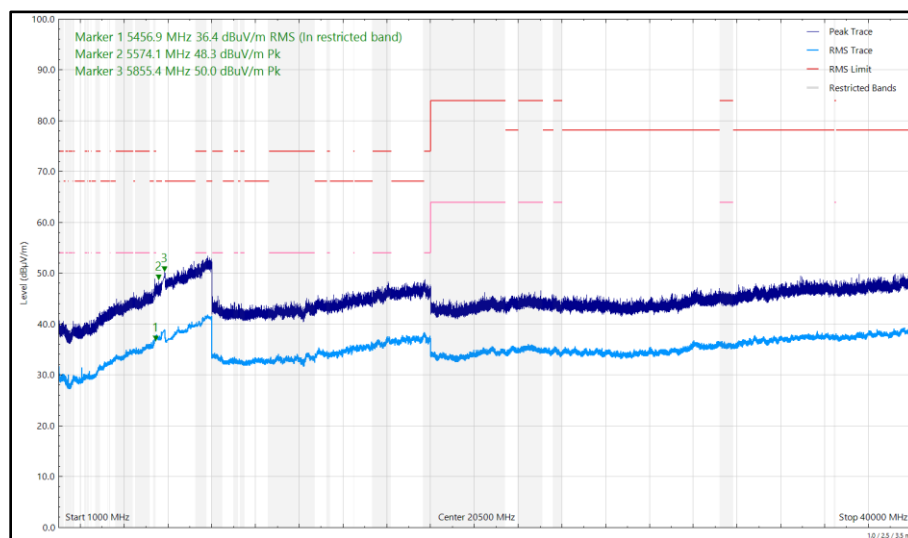


Figure 216 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

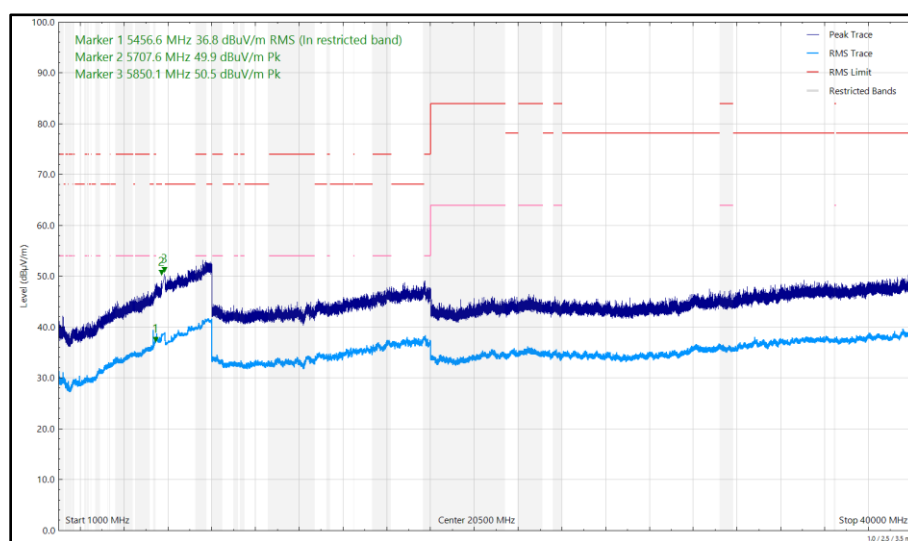
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5456.598        | 36.75                | 54.00                | -17.25      | RMS      | 20        | 165         | Vertical     |
| 5456.923        | 36.35                | 54.00                | -17.65      | RMS      | 46        | 148         | Horizontal   |
| 5574.145        | 48.34                | 68.20                | -19.86      | Peak     | 160       | 176         | Horizontal   |
| 5707.625        | 49.93                | 68.20                | -18.27      | Peak     | 176       | 169         | Vertical     |
| 5850.112        | 50.50                | 68.20                | -17.70      | Peak     | 350       | 237         | Vertical     |
| 5855.435        | 50.00                | 68.20                | -18.20      | Peak     | 87        | 108         | Horizontal   |

**Table 124 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 217 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

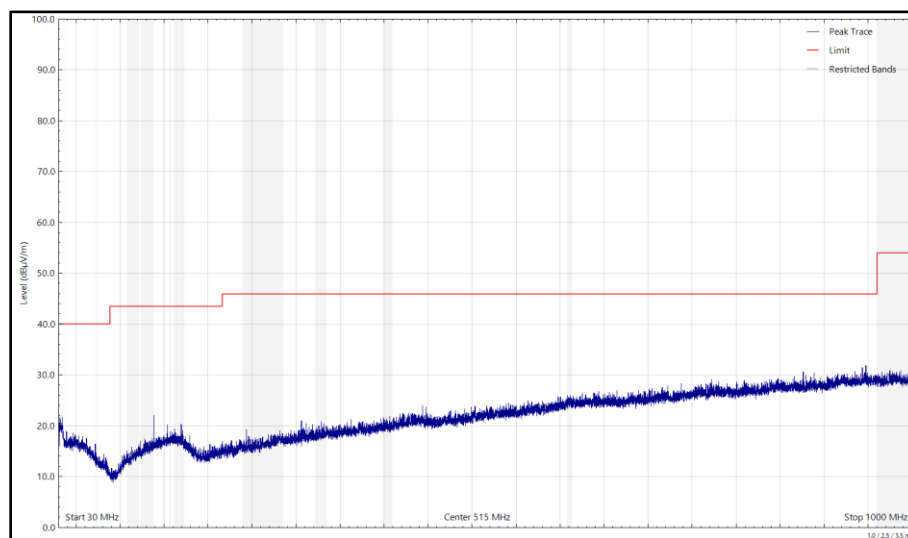


**Figure 218 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

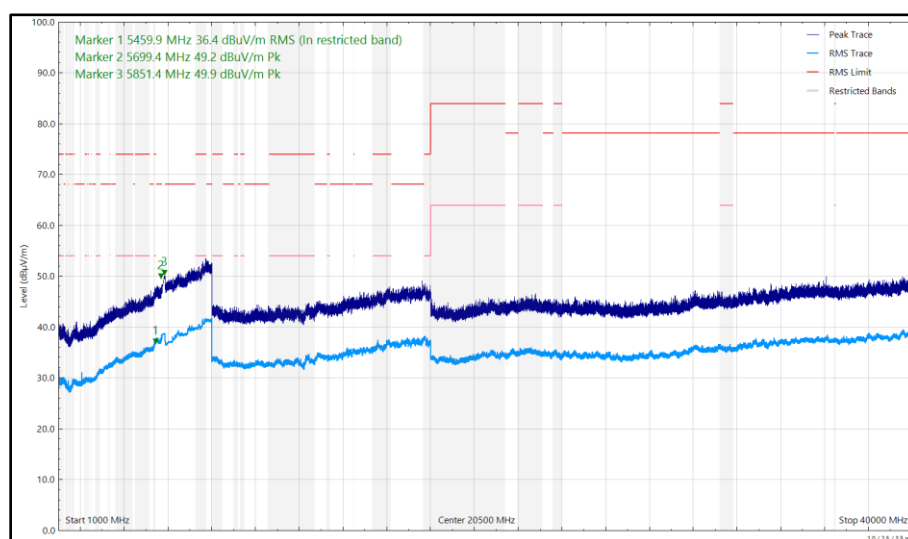
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5374.625        | 40.55          | 54.00          | -13.45      | RMS      | 264       | 144         | Vertical     |
| 5459.904        | 36.36          | 54.00          | -17.64      | RMS      | 235       | 133         | Horizontal   |
| 5699.389        | 49.22          | 68.20          | -18.98      | Peak     | 0         | 109         | Horizontal   |
| 5707.909        | 50.11          | 68.20          | -18.09      | Peak     | 282       | 100         | Vertical     |
| 5851.386        | 49.86          | 68.20          | -18.34      | Peak     | 42        | 175         | Horizontal   |
| 5851.899        | 50.62          | 68.20          | -17.58      | Peak     | 271       | 399         | Vertical     |

**Table 125 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 219 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 220 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

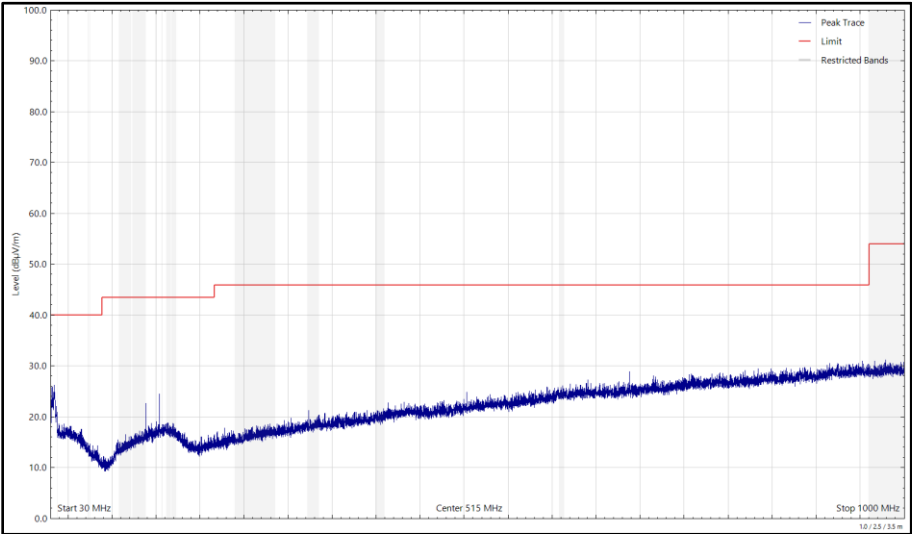


Figure 221 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

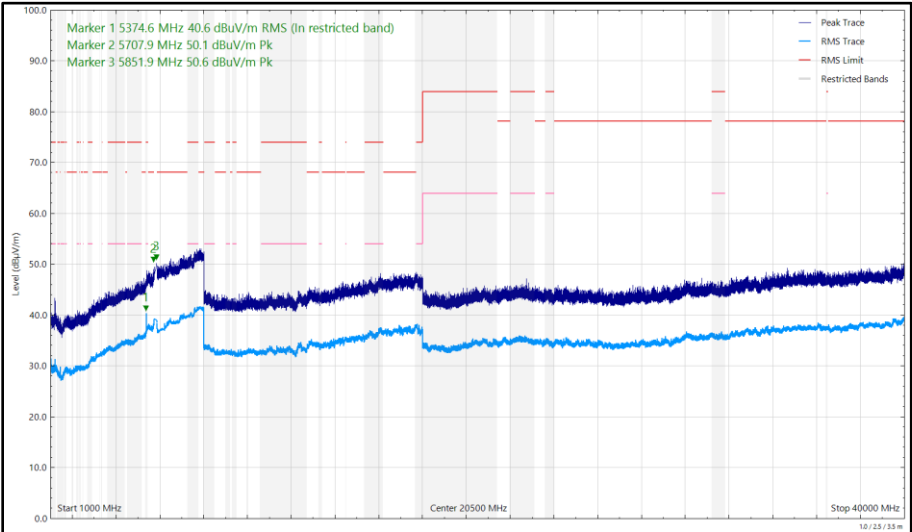
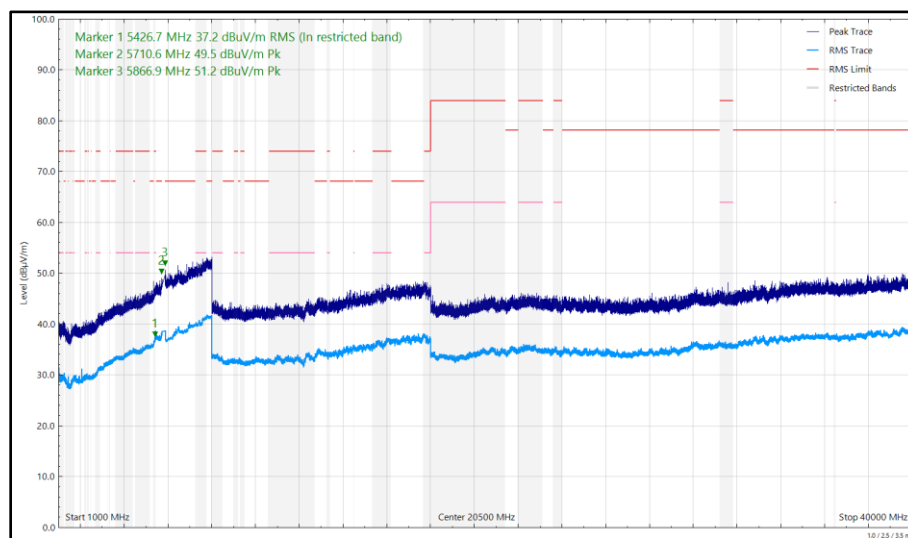


Figure 222 - 5788 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

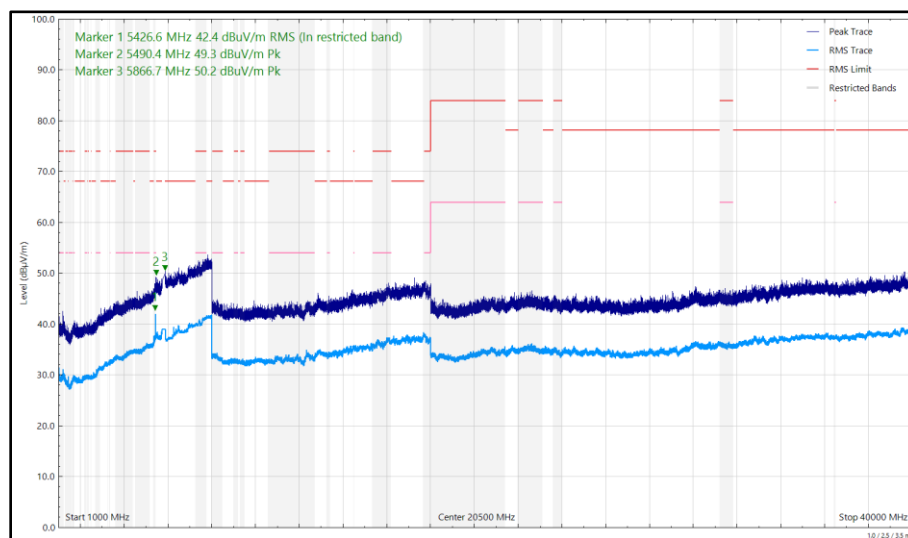
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5426.575        | 42.42                | 54.00                | -11.58      | RMS      | 257       | 150         | Vertical     |
| 5426.680        | 37.15                | 54.00                | -16.85      | RMS      | 189       | 368         | Horizontal   |
| 5490.433        | 49.34                | 68.20                | -18.86      | Peak     | 281       | 152         | Vertical     |
| 5710.607        | 49.49                | 68.20                | -18.71      | Peak     | 220       | 100         | Horizontal   |
| 5866.719        | 50.20                | 68.20                | -18.00      | Peak     | 264       | 328         | Vertical     |
| 5866.889        | 51.21                | 68.20                | -16.99      | Peak     | 327       | 171         | Horizontal   |

**Table 126 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 223 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

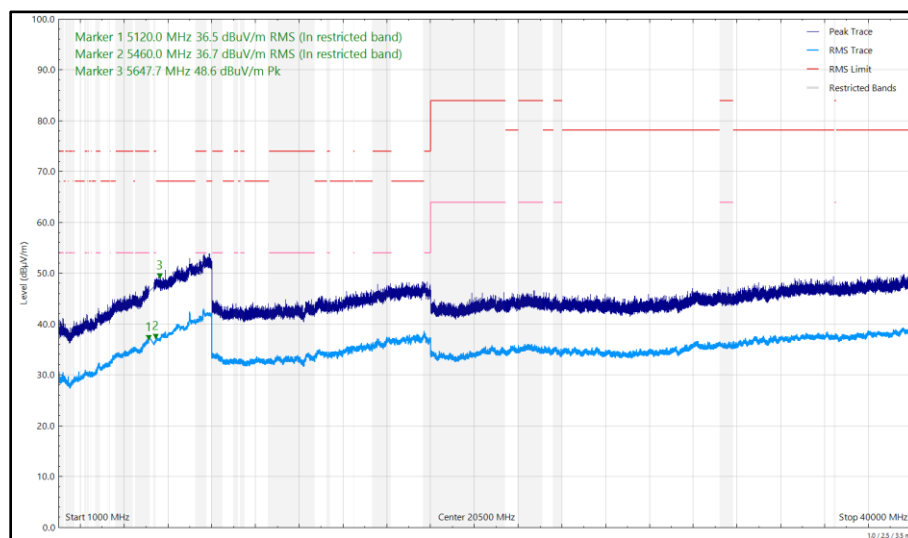


**Figure 224 - 5844 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

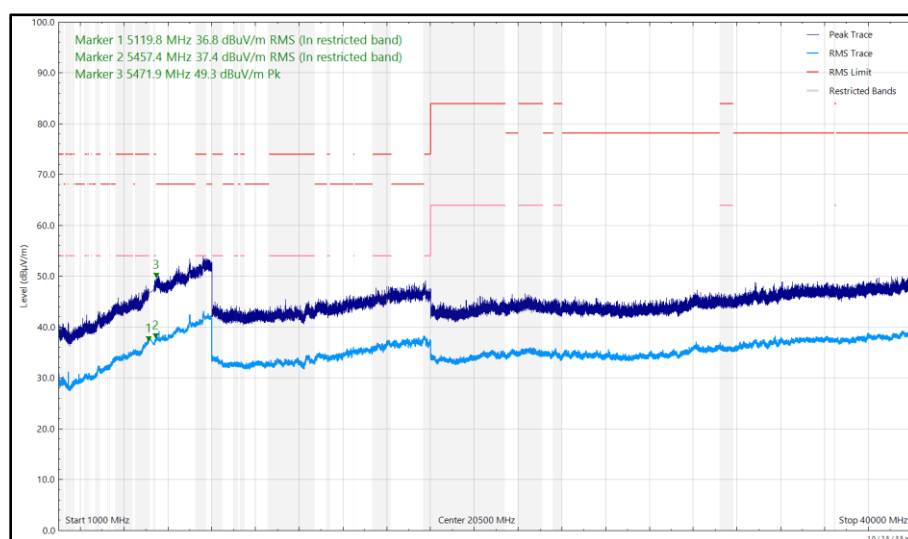
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5119.779        | 36.79                | 54.00                | -17.21      | RMS      | 350       | 373         | Vertical     |
| 5119.983        | 36.50                | 54.00                | -17.50      | RMS      | 85        | 339         | Horizontal   |
| 5457.384        | 37.39                | 54.00                | -16.61      | RMS      | 350       | 132         | Vertical     |
| 5459.981        | 36.65                | 54.00                | -17.35      | RMS      | 318       | 300         | Horizontal   |
| 5471.919        | 49.34                | 68.20                | -18.86      | Peak     | 313       | 385         | Vertical     |
| 5647.716        | 48.56                | 68.20                | -19.64      | Peak     | 71        | 119         | Horizontal   |

**Table 127 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 225 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

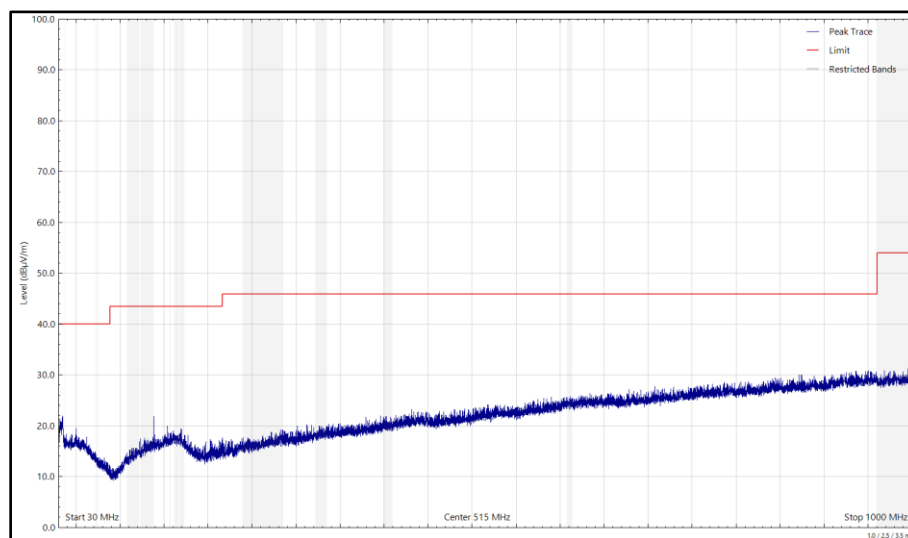


**Figure 226 - 5162 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

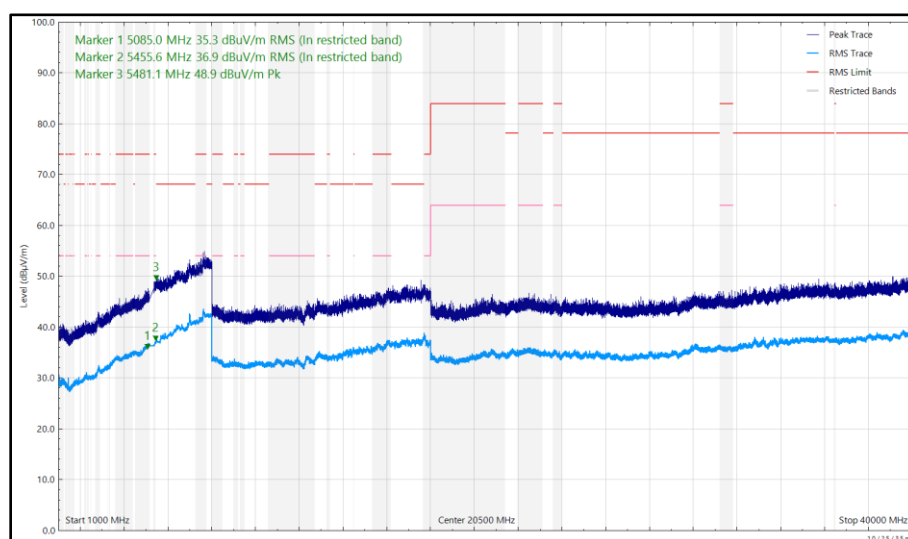
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5084.960        | 35.27                | 54.00                | -18.73      | RMS      | 99        | 390         | Horizontal   |
| 5121.972        | 36.21                | 54.00                | -17.79      | RMS      | 273       | 231         | Vertical     |
| 5447.535        | 36.55                | 54.00                | -17.45      | RMS      | 44        | 101         | Vertical     |
| 5455.577        | 36.88                | 54.00                | -17.12      | RMS      | 7         | 383         | Horizontal   |
| 5481.147        | 48.88                | 68.20                | -19.32      | Peak     | 318       | 115         | Horizontal   |
| 5636.927        | 49.59                | 68.20                | -18.61      | Peak     | 276       | 169         | Vertical     |

**Table 128 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 227 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 228 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

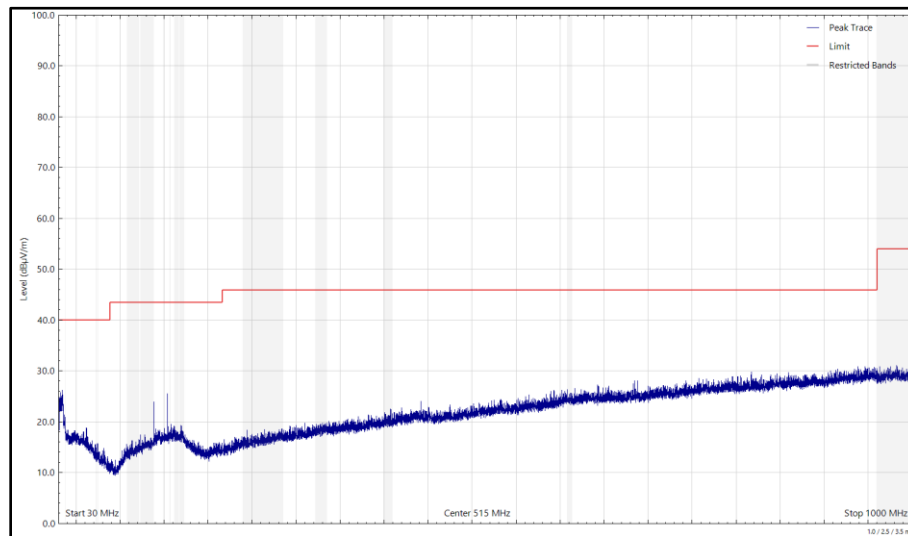


Figure 229 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

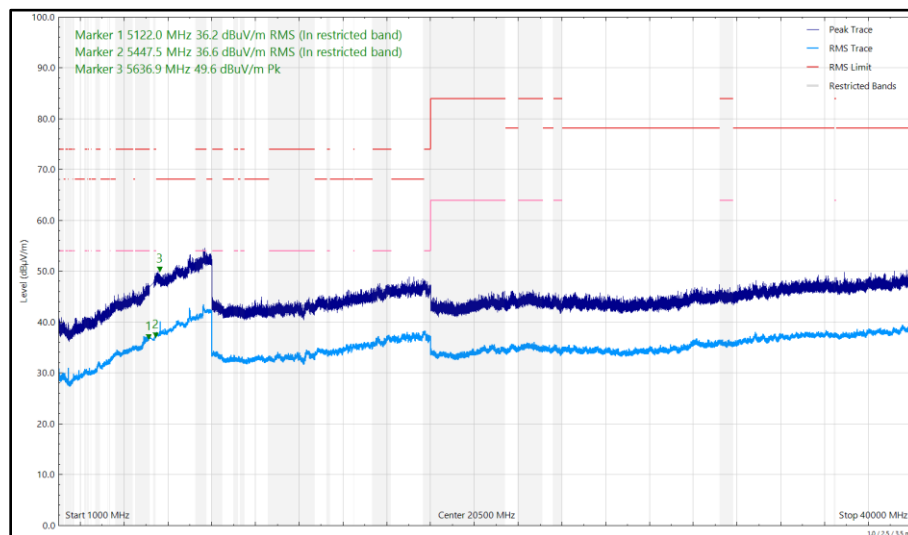
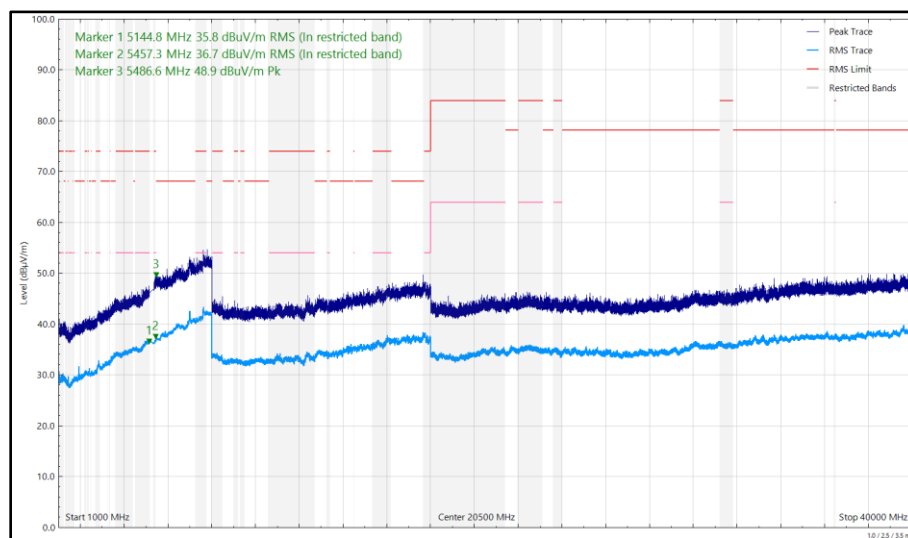


Figure 230 - 5203 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

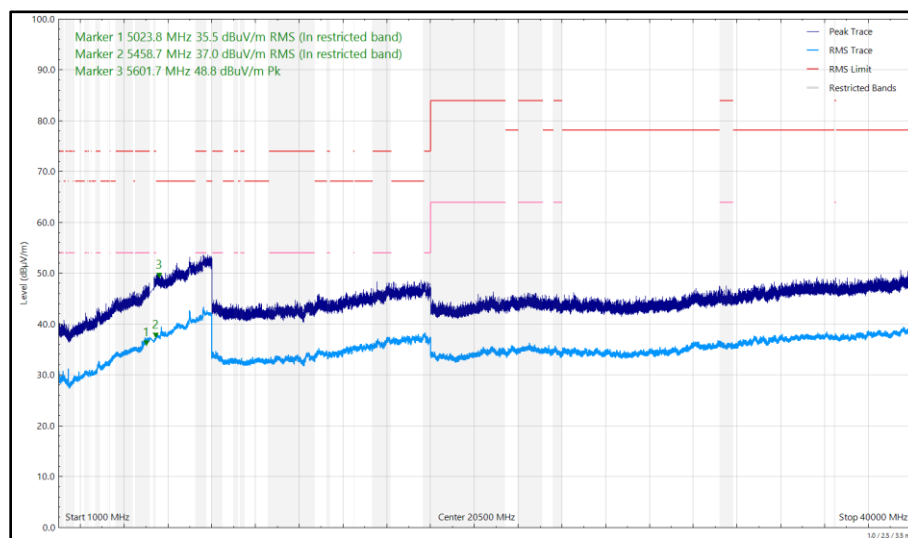
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5023.842        | 35.46          | 54.00          | -18.54      | RMS      | 67        | 287         | Vertical     |
| 5144.769        | 35.76          | 54.00          | -18.24      | RMS      | 284       | 119         | Horizontal   |
| 5457.257        | 36.71          | 54.00          | -17.29      | RMS      | 174       | 113         | Horizontal   |
| 5458.677        | 36.98          | 54.00          | -17.02      | RMS      | 353       | 253         | Vertical     |
| 5486.579        | 48.90          | 68.20          | -19.30      | Peak     | 273       | 228         | Horizontal   |
| 5601.714        | 48.78          | 68.20          | -19.42      | Peak     | 7         | 400         | Vertical     |

**Table 129 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 231 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

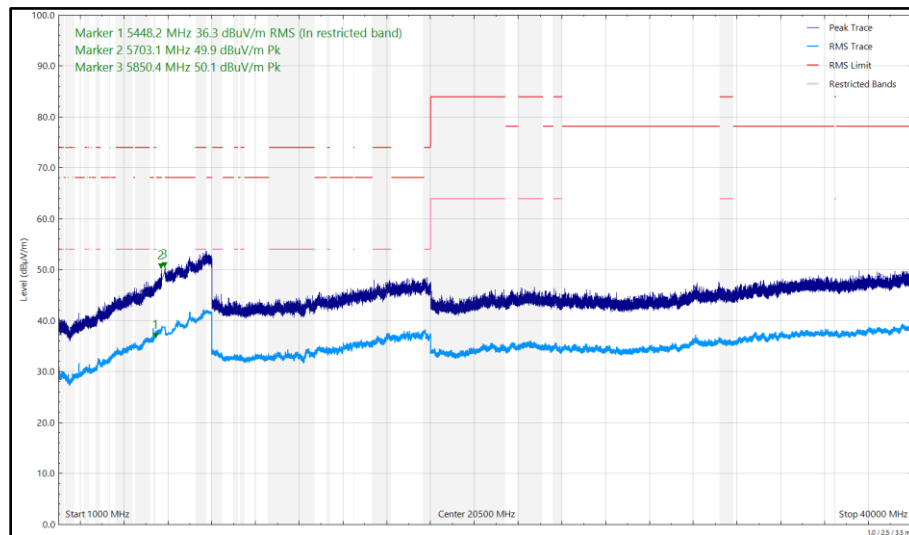


**Figure 232 - 5245 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

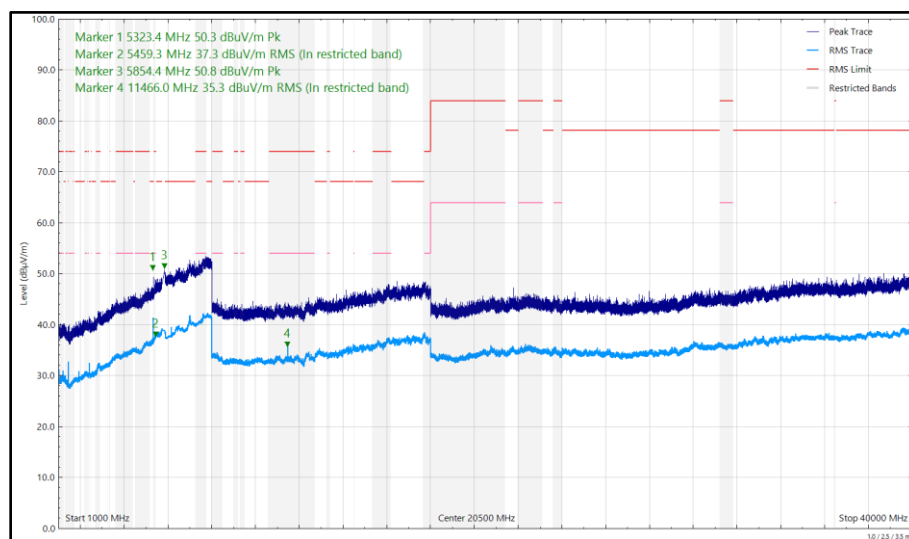
| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 5323.410        | 50.34          | 68.20          | -17.86      | Peak     | 358       | 154         | Vertical     |
| 5448.228        | 36.30          | 54.00          | -17.70      | RMS      | 84        | 372         | Horizontal   |
| 5459.327        | 37.25          | 54.00          | -16.75      | RMS      | 6         | 293         | Vertical     |
| 5703.091        | 49.85          | 68.20          | -18.35      | Peak     | 9         | 344         | Horizontal   |
| 5850.444        | 50.07          | 68.20          | -18.13      | Peak     | 294       | 394         | Horizontal   |
| 5854.408        | 50.75          | 68.20          | -17.45      | Peak     | 275       | 184         | Vertical     |
| 11466.025       | 35.30          | 54.00          | -18.70      | RMS      | 339       | 302         | Vertical     |

**Table 130 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 233 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

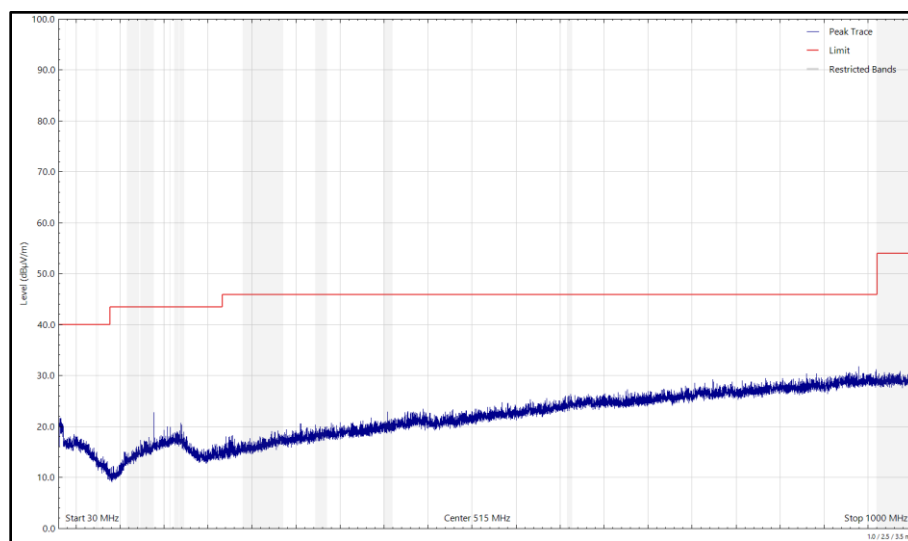


**Figure 234 - 5733 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**

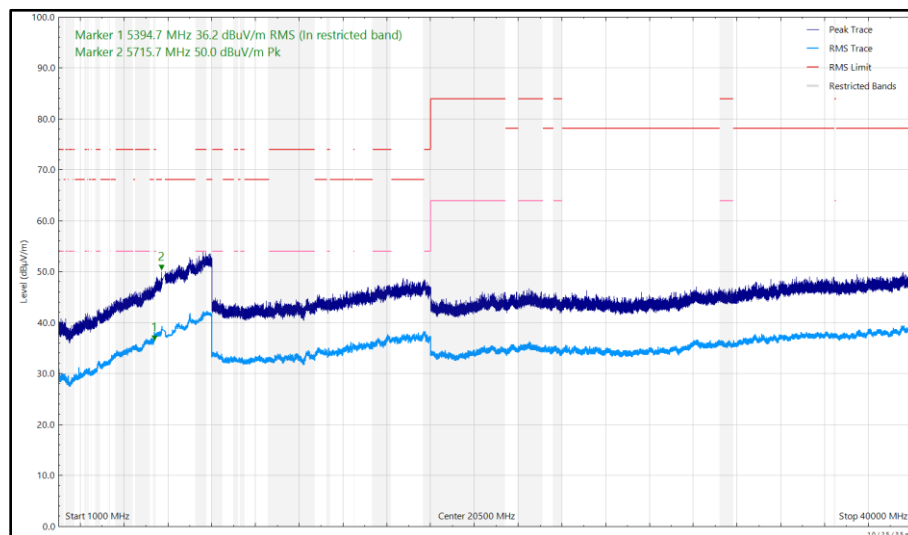
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5374.625        | 40.24                | 54.00                | -13.76      | RMS      | 360       | 100         | Vertical     |
| 5394.698        | 36.15                | 54.00                | -17.85      | RMS      | 0         | 397         | Horizontal   |
| 5715.682        | 49.95                | 68.20                | -18.25      | Peak     | 297       | 169         | Horizontal   |
| 5720.616        | 50.41                | 68.20                | -17.79      | Peak     | 21        | 375         | Vertical     |
| 5892.174        | 48.68                | 68.20                | -19.52      | Peak     | 0         | 366         | Vertical     |

**Table 131 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 235 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**



**Figure 236 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**

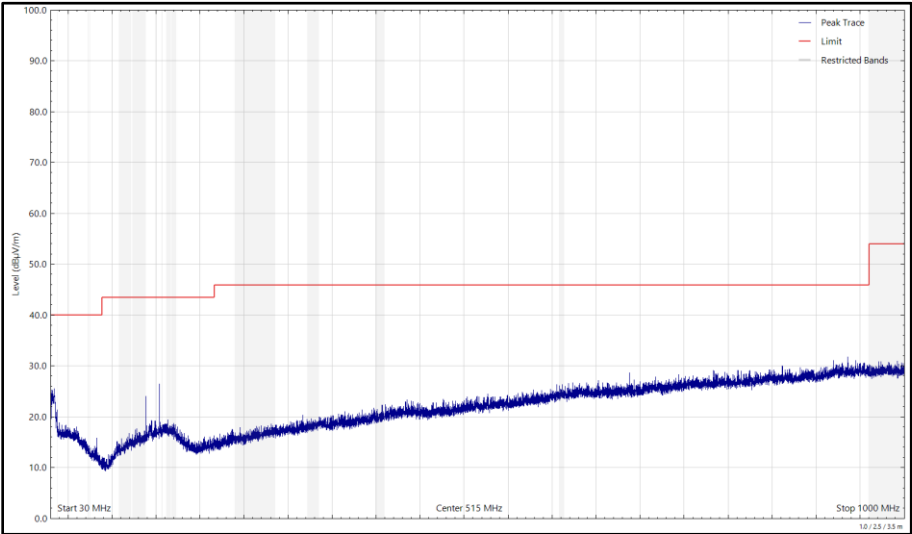


Figure 237 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

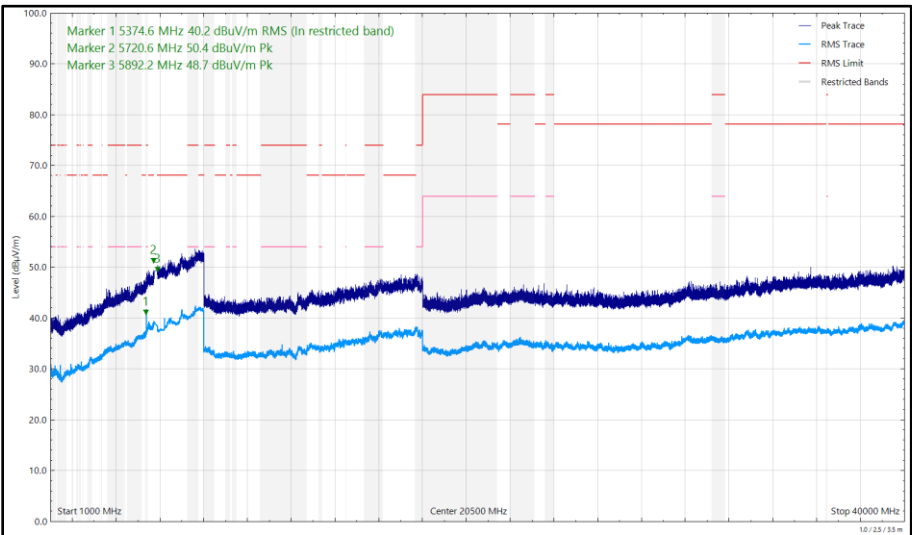
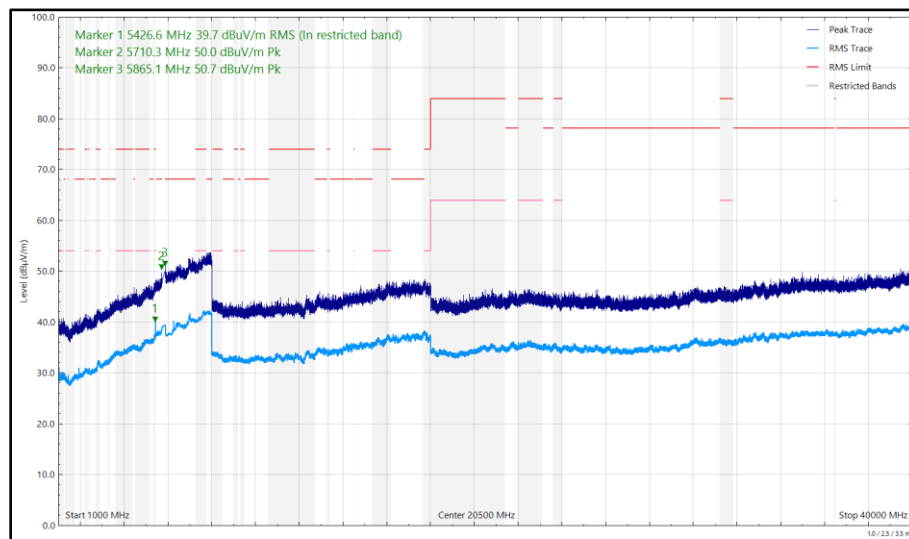


Figure 238 - 5788 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

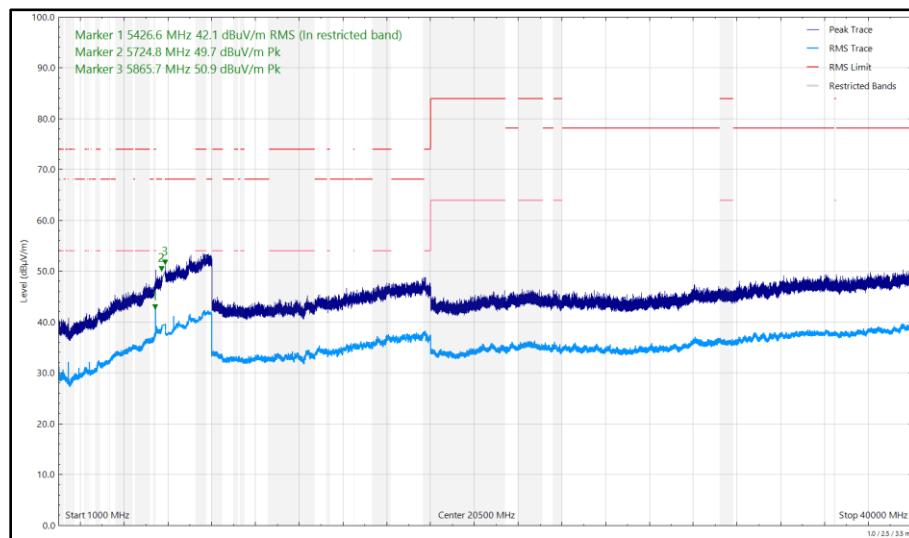
| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| 5426.555        | 39.68                | 54.00                | -14.32      | RMS      | 162       | 163         | Horizontal   |
| 5426.615        | 42.13                | 54.00                | -11.87      | RMS      | 353       | 357         | Vertical     |
| 5710.275        | 50.02                | 68.20                | -18.18      | Peak     | 118       | 390         | Horizontal   |
| 5724.780        | 49.68                | 68.20                | -18.52      | Peak     | 16        | 316         | Vertical     |
| 5865.115        | 50.69                | 68.20                | -17.51      | Peak     | 243       | 328         | Horizontal   |
| 5865.711        | 50.88                | 68.20                | -17.32      | Peak     | 351       | 132         | Vertical     |

**Table 132 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz**

No other emissions found within 10 dB of the limit.



**Figure 239 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal**



**Figure 240 - 5844 MHz, DH5, ePA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical**



FCC 47 CFR Part 15, Limit Clause 15.407(b)(1)(2)(3)(4)

Emissions not falling within the restricted bands listed in FCC 47 CFR Part 15.209:

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Emissions within the restricted bands listed in FCC 47 CFR Part 15.209:

| Frequency (MHz) | Field Strength ( $\mu$ V/m) at 3m | Field Strength Limit (dB $\mu$ V/m) at 3m |
|-----------------|-----------------------------------|-------------------------------------------|
| 30 to 88        | 100                               | 40.00                                     |
| 88 to 216       | 150                               | 43.52                                     |
| 216 to 960      | 200                               | 46.02                                     |
| Above 960       | 500                               | 53.98                                     |

**Table 133 - Radiated Emissions Limit Table (FCC)**



ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2 and ISED RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Emissions falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

| Frequency (MHz) | Field Strength ( $\mu\text{V}/\text{m}$ ) at 3m | Field Strength Limit ( $\text{dB}\mu\text{V}/\text{m}$ ) at 3m |
|-----------------|-------------------------------------------------|----------------------------------------------------------------|
| 30 to 88        | 100                                             | 40.00                                                          |
| 88 to 216       | 150                                             | 43.52                                                          |
| 216 to 960      | 200                                             | 46.02                                                          |
| Above 960       | 500                                             | 53.98                                                          |

**Table 134 - Radiated Emissions Limit Table (ISED)**

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.

Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.



## 2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16, RF Chamber 17 and RF Chamber 18.

| Instrument                          | Manufacturer       | Type No.                  | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-------------------------------------|--------------------|---------------------------|--------|-----------------------------|-------------------------|
| Emissions Software                  | TUV SUD            | EmX V3.4.2                | 5125   | -                           | Software                |
| Cable 2.92m                         | Junkosha           | MWX241-01000KMS           | 5413   | 12                          | 23-May-2025             |
| Test Receiver                       | Rohde & Schwarz    | ESW44                     | 5914   | 12                          | 24-May-2025             |
| DRG Horn Antenna (7.5-18GHz)        | Schwarzbeck        | HWRD750                   | 5939   | 12                          | 05-May-2025             |
| 1500W (300V 12A) AC Power Supply    | iTech              | IT7324                    | 5957   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber, Chamber16 | Albatross Projects | RF Chamber 16             | 5972   | 36                          | 24-May-2025             |
| Mast & Turntable Controller         | Maturo Gmbh        | FCU3.0                    | 5973   | -                           | TU                      |
| Tilt Antenna Mast                   | Maturo Gmbh        | BAM4.5-P                  | 5974   | -                           | TU                      |
| Turntable                           | Maturo Gmbh        | TT1.5SI                   | 5975   | -                           | TU                      |
| Cable (N to N 7m)                   | Junkosha           | MWX221-07000NMSNMS/B      | 6005   | 12                          | 20-May-2025             |
| Cable (N to N 1m)                   | Junkosha           | MWX221-01000AMSAMS/B      | 6009   | 12                          | 20-May-2025             |
| Horn Antenna (1-10.5 GHz)           | Schwarzbeck        | BBHA9120B                 | 6140   | 12                          | 05-May-2025             |
| Horn Antenna (1-10 GHz)             | Schwarzbeck        | BBHA9120B                 | 6142   | 12                          | 05-May-2025             |
| SAC Switch Unit                     | TUV SUD            | TUV_SSU_001               | 6144   | 12                          | 11-Dec-2024             |
| Digital Multimeter                  | Fluke              | 115                       | 6146   | 12                          | 06-Jun-2025             |
| Humidity & Temperature meter        | R.S Components     | 1364                      | 6148   | 12                          | 29-Jul-2025             |
| Humidity & Temperature meter        | R.S Components     | 1364                      | 6149   | 12                          | 12-Aug-2025             |
| EMI Test Receiver                   | Rohde & Schwarz    | ESW44                     | 6294   | 12                          | 06-Jan-2025             |
| USB Spectrum Analyser               | Signal Hound       | SA124B                    | 6295   | -                           | TU                      |
| USB Spectrum Analyser               | Signal Hound       | SA124B                    | 6298   | -                           | TU                      |
| Cable (SMA to SMA 8m)               | Junkosha           | MWX221-08000AMSAMS/B      | 6318   | 12                          | 18-Feb-2025             |
| Cable (SMA to SMA 8m)               | Junkosha           | MWX221-08000AMSAMS/B      | 6319   | -                           | 04-Feb-2025             |
| Cable (K Type 2m)                   | Junkosha           | MWX241-02000KMSKMS/B      | 6324   | 12                          | 04-Feb-2025             |
| Digital Multimeter                  | Fluke              | 115                       | 6345   | 12                          | 24-Jul-2025             |
| Humidity and Temperature Meter      | R.S Components     | 1364                      | 6346   | 12                          | 06-Mar-2025             |
| SAC Switch Unit                     | TUV SUD            | TUV_SSU_004 PLC           | 6349   | 12                          | 07-May-2025             |
| USB Spectrum Analyser               | Signal Hound       | SA124B                    | 6383   | -                           | TU                      |
| 8 GHz High Pass Filter              | Wainwright         | WHKX 7150 8000 18000 50SS | 6427   | 12                          | 23-Apr-2025             |



| Instrument                                   | Manufacturer        | Type No.      | TE No. | Calibration Period (months) | Calibration Expiry Date |
|----------------------------------------------|---------------------|---------------|--------|-----------------------------|-------------------------|
| Trilog Super Broadband Test Antenna          | Schwarzbeck         | VULB 9168     | 6456   | 24                          | 10-Feb-2025             |
| 3m Semi-Anechoic Chamber                     | Albatross Projects  | Chamber 18    | 6597   | 36                          | 07-Feb-2026             |
| AC Power Supply                              | iTech               | IT7324        | 6657   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber                     | Albatross Projects  | RF Chamber 17 | 6658   | 36                          | 28-Jan-2026             |
| Mast and Turntable Controller                | Maturo Gmbh         | FCU3.0        | 6659   | -                           | TU                      |
| Tilt Antenna Mast                            | Maturo Gmbh         | BAM4.5-P      | 6660   | -                           | TU                      |
| Turntable                                    | Maturo Gmbh         | TT1.5SI       | 6661   | -                           | TU                      |
| Double Ridge Active Horn Antenna (18-40 GHz) | Com-Power           | AHA-840       | 6771   | 24                          | 17-Jan-2025             |
| Pre Amp 8 - 18 GHz                           | Wright Technologies | APS06-0061    | 6783   | 12                          | 23-Apr-2025             |
| Mast & Turntable Controller                  | Maturo Gmbh         | FCU3.0        | 6795   | -                           | TU                      |
| Tilt Antenna Mast                            | Maturo Gmbh         | BAM4.5-P      | 6796   | -                           | TU                      |
| Turntable                                    | Maturo Gmbh         | TT1.5SI       | 6797   | -                           | TU                      |
| AC Programmable Power Supply                 | iTech               | IT7324        | 6812   | -                           | O/P Mon                 |
| Broad-Band Horn Antenna 1-10GHz N            | Schwarzbeck         | BBHA9120B     | 6825   | 12                          | 18-Jul-2025             |
| Cable Assembly                               | SpecTech            | PE300-60      | 6861   | -                           | TU                      |
| Cable Assembly                               | SpecTech            | PE300-60      | 6862   | -                           | TU                      |
| Cable Assembly                               | SpecTech            | PE300-60      | 6863   | -                           | TU                      |

**Table 135**

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



### 3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name                                | Measurement Uncertainty                                        |
|------------------------------------------|----------------------------------------------------------------|
| Restricted Band Edges                    | $\pm 6.3$ dB                                                   |
| Emission Bandwidth                       | $\pm 136.57$ kHz                                               |
| Maximum Conducted Output Power           | $\pm 1.38$ dB                                                  |
| Maximum Conducted Power Spectral Density | $\pm 1.49$ dB                                                  |
| Authorised Band Edges                    | $\pm 6.3$ dB                                                   |
| Spurious Radiated Emissions              | 30 MHz to 1 GHz: $\pm 5.2$ dB<br>1 GHz to 40 GHz: $\pm 6.3$ dB |

**Table 136**

#### Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.