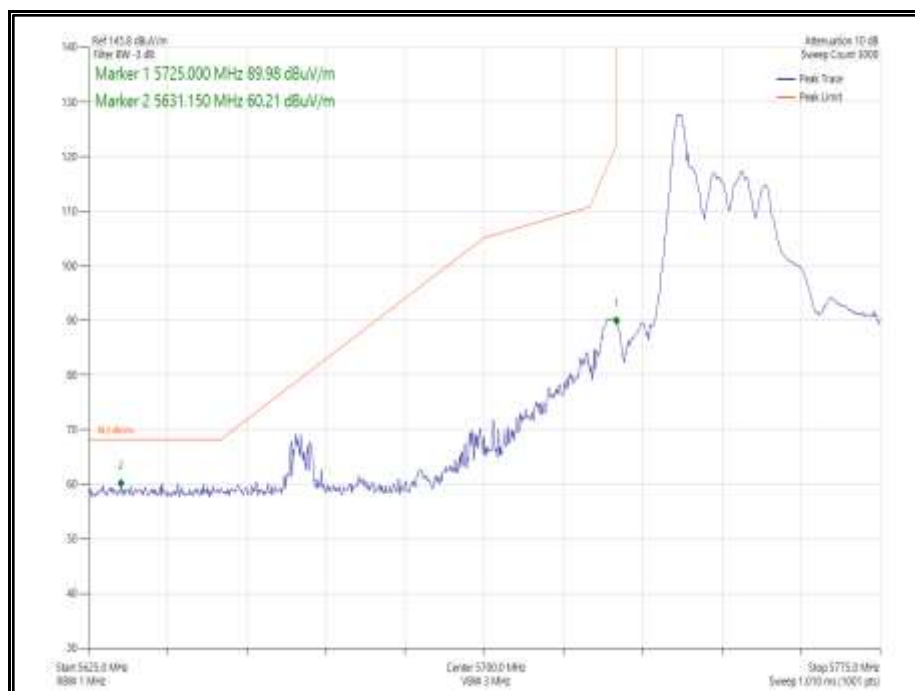
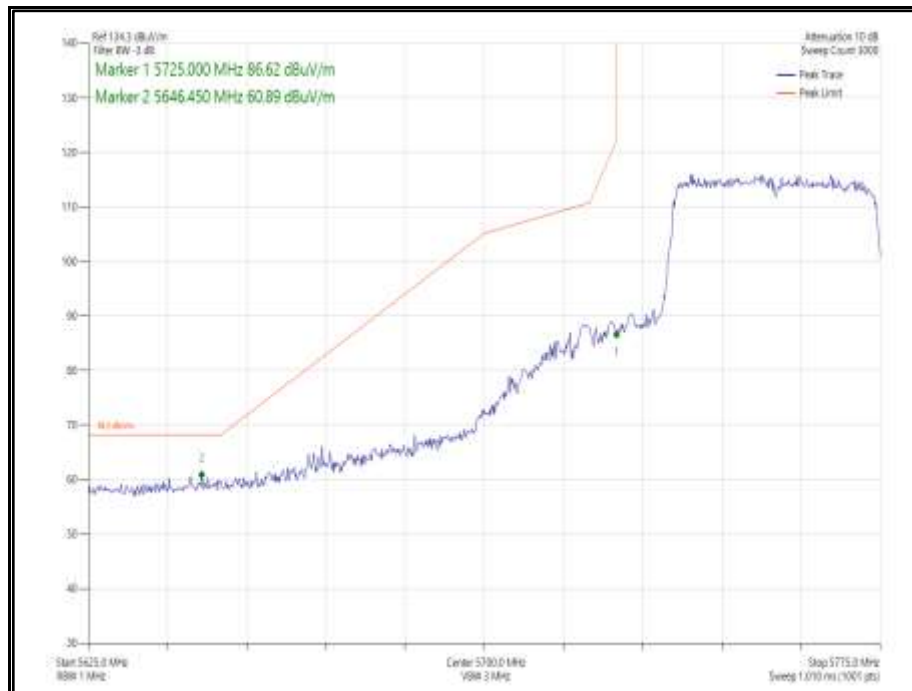


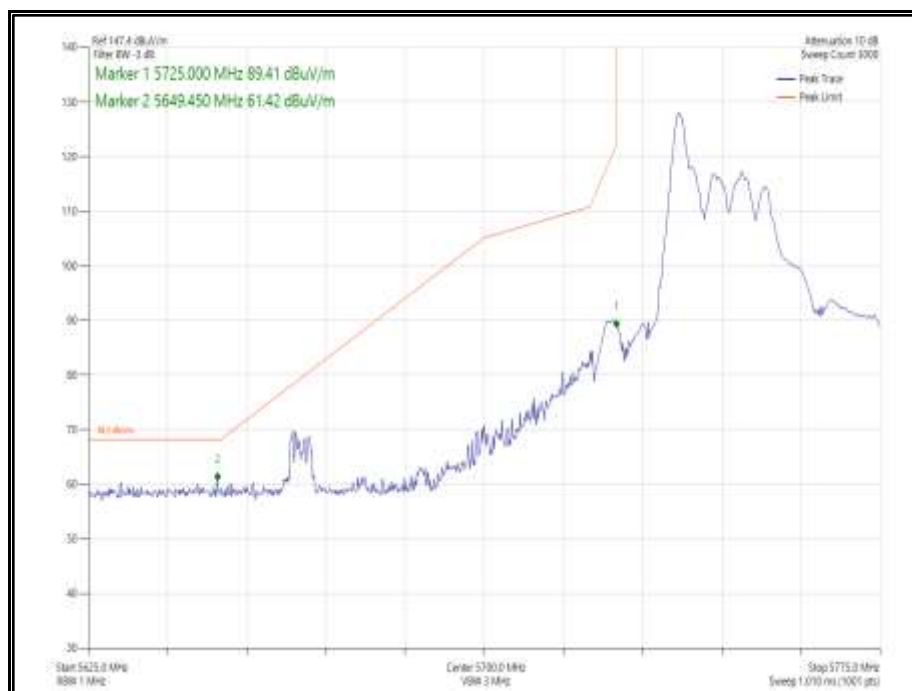
**Figure 1001 - 802.11ax HE40 CDD, Cores 0-1, SU - 5755 MHz
Band Edge Frequency 5725 MHz**



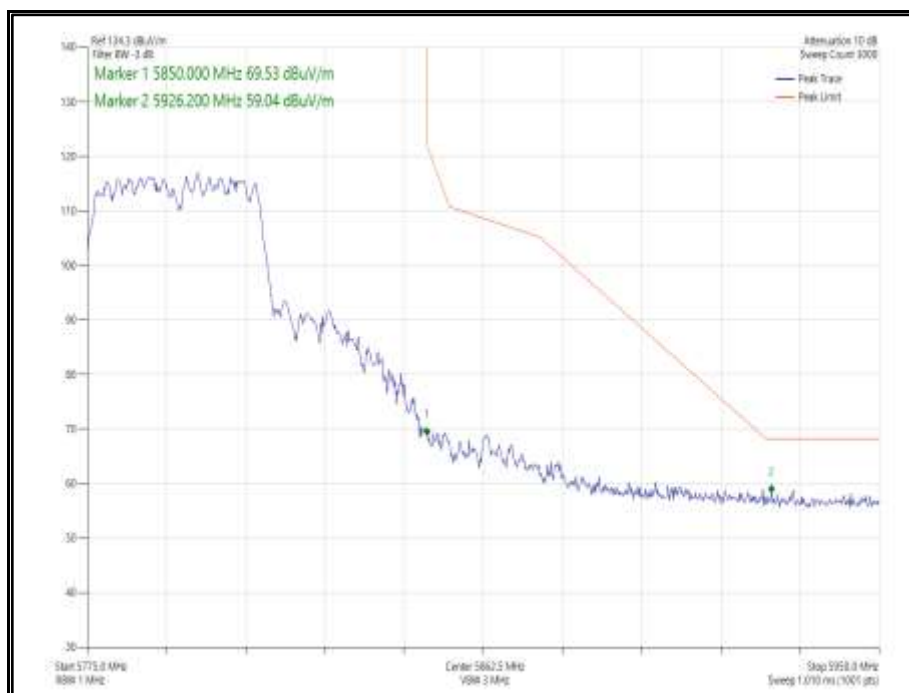
**Figure 1002 - 802.11ax HE40 CDD, Cores 0-1, 26-0 - 5755 MHz
Band Edge Frequency 5725 MHz**



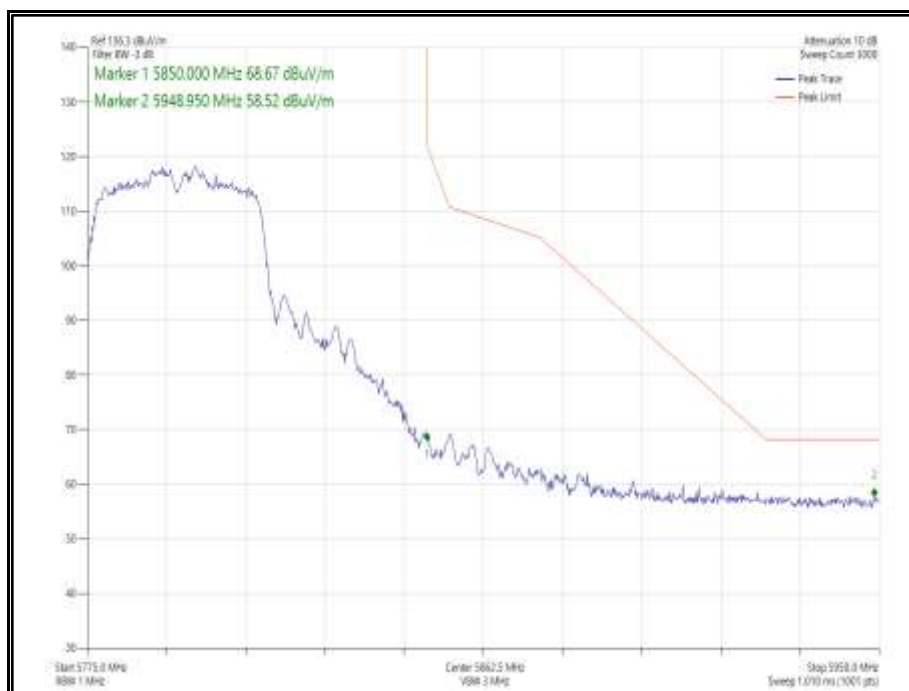
**Figure 1003 - 802.11ax HE40 SDM, Cores 0-1, SU - 5755 MHz
Band Edge Frequency 5725 MHz**



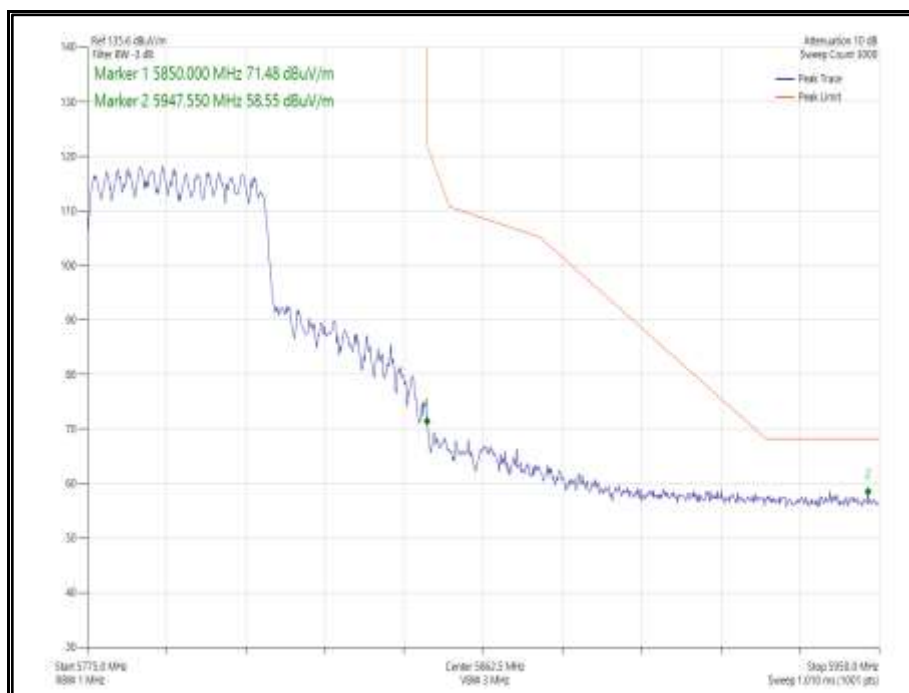
**Figure 1004 - 802.11ax HE40 SDM, Cores 0-1, 26-0 - 5755 MHz
Band Edge Frequency 5725 MHz**



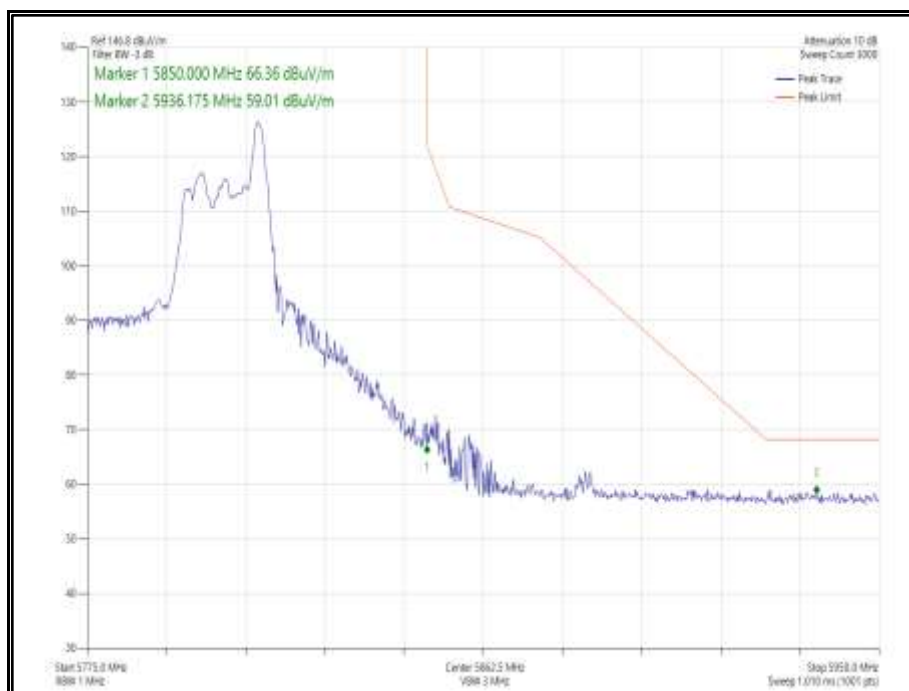
**Figure 1005 - 802.11n HT40 CDD, Cores 0-1 - 5795 MHz
Band Edge Frequency 5850 MHz**



**Figure 1006 - 802.11n HT40 SDM, Cores 0-1 - 5795 MHz
Band Edge Frequency 5850 MHz**



**Figure 1007 - 802.11ax HE40 CDD, Cores 0-1, SU - 5795 MHz
Band Edge Frequency 5850 MHz**



**Figure 1008 - 802.11ax HE40 CDD, Cores 0-1, 26-17 - 5795 MHz
Band Edge Frequency 5850 MHz**

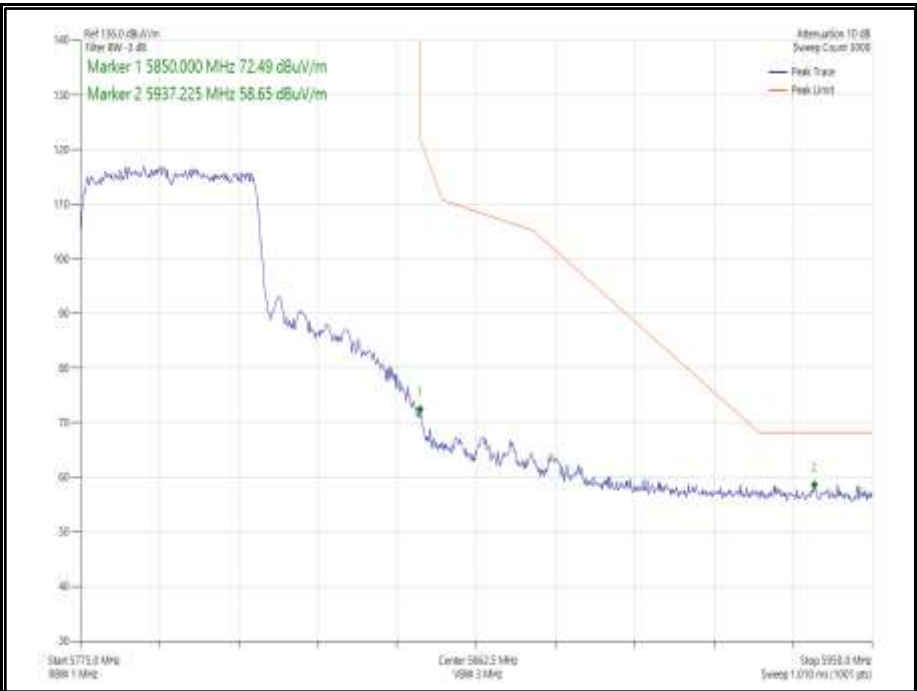


Figure 1009 - 802.11ax HE40 SDM, Cores 0-1, SU - 5795 MHz
Band Edge Frequency 5850 MHz

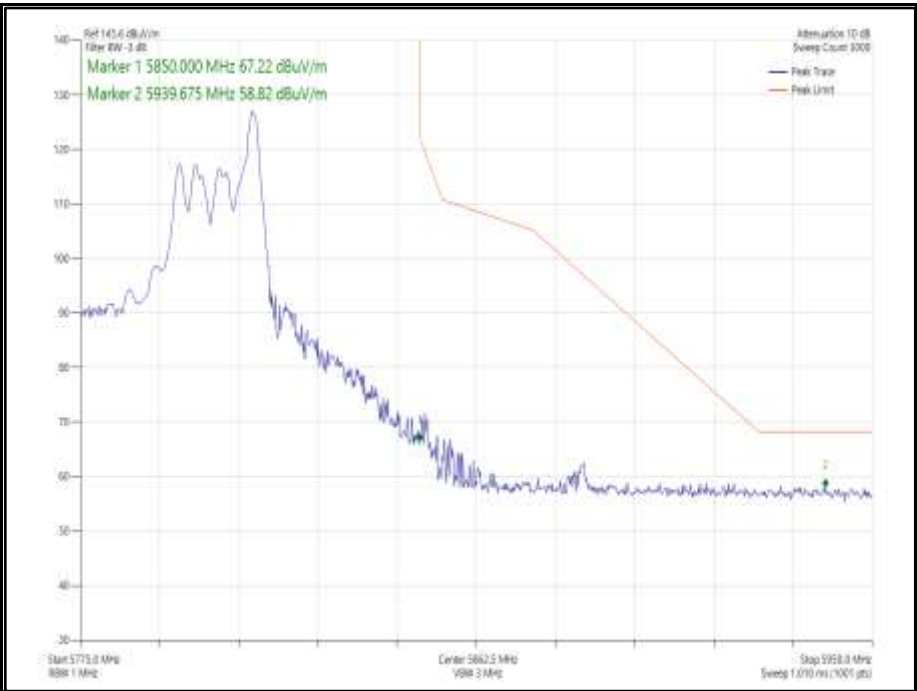
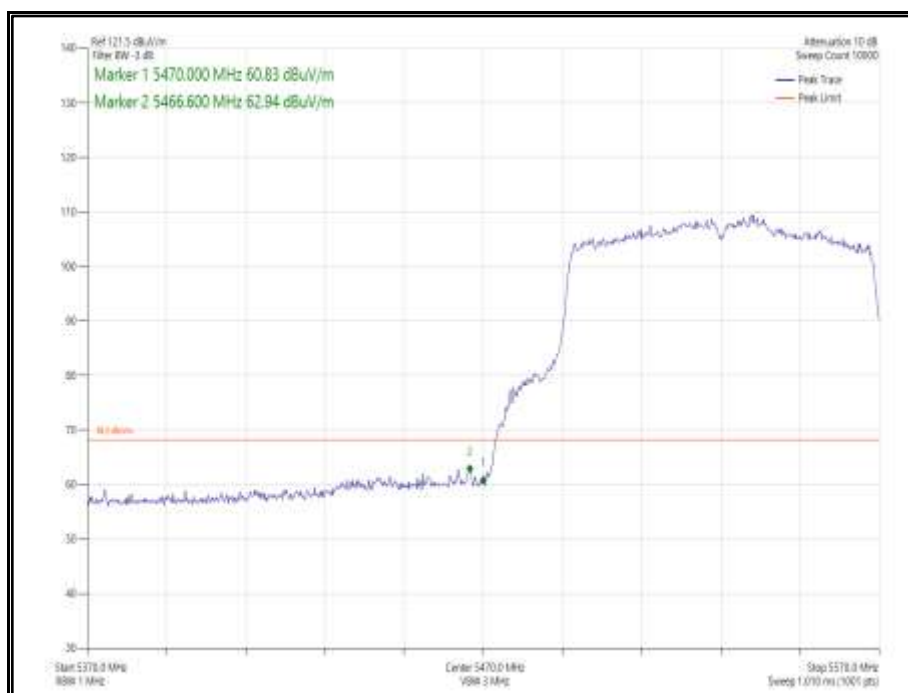


Figure 1010 - 802.11ax HE40 SDM, Cores 0-1, 26-17 - 5795 MHz
Band Edge Frequency 5850 MHz

| Mode | Data Rate /MCS | Resource size | Resource Index | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBuV/m) |
|------------------------|----------------|---------------|----------------|--------------------|---------------------------|----------------|
| 802.11ac VHT80, Core 1 | MCS2x1 | - | - | 5530 | 5470 | 62.94 |
| 802.11ac VHT80, Core 1 | MCS4x1 | - | - | 5610 | 5725 | 61.92 |
| 802.11ac VHT80, Core 1 | MCS7x1 | - | - | 5775 | 5725 | 62.90 |
| 802.11ac VHT80, Core 1 | MCS7x1 | - | - | 5775 | 5850 | 60.21 |
| 802.11ax HE80, Core 1 | MCS11x1 | SU | - | 5530 | 5470 | 61.28 |
| 802.11ax HE80, Core 1 | MCS11x1 | 52 | 37 | 5530 | 5470 | 62.86 |
| 802.11ax HE80, Core 1 | MCS4x1 | SU | - | 5610 | 5725 | 62.88 |
| 802.11ax HE80, Core 1 | MCS11x1 | 52 | 52 | 5610 | 5725 | 62.66 |
| 802.11ax HE80, Core 1 | MCS11x1 | SU | - | 5775 | 5725 | 63.14 |
| 802.11ax HE80, Core 1 | MCS11x1 | 26 | 0 | 5775 | 5725 | 59.91 |
| 802.11ax HE80, Core 1 | MCS11x1 | SU | - | 5775 | 5850 | 62.10 |
| 802.11ax HE80, Core 1 | MCS11x1 | 26 | 36 | 5775 | 5850 | 61.08 |

Table 663 - 80 MHz Bandwidth SISO Authorised Band Edge Results



**Figure 1011 - 802.11ac VHT80 Core 1 - 5530 MHz
Band Edge Frequency 5470 MHz**

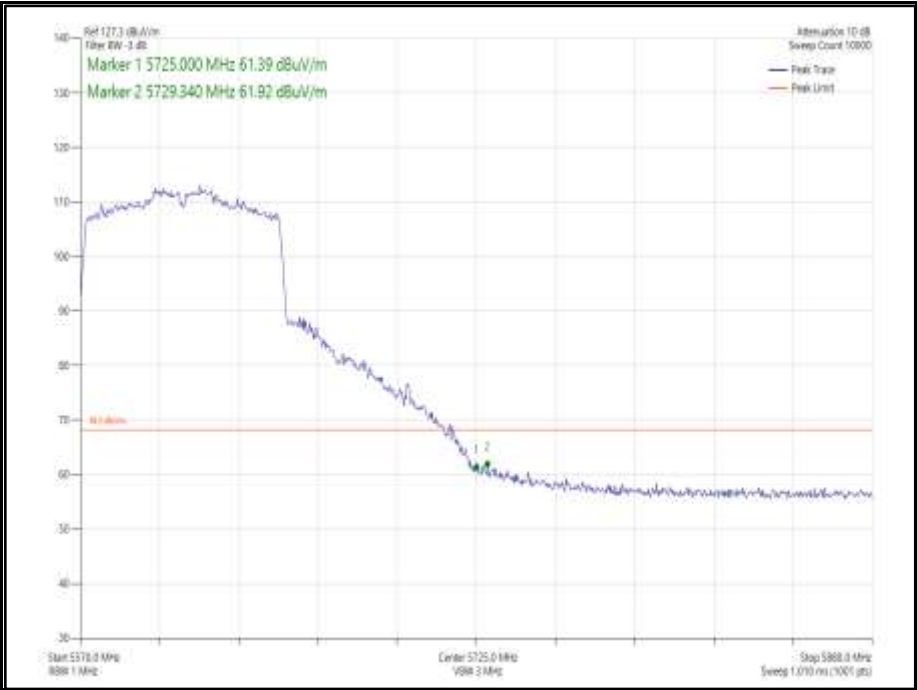


Figure 1012 - 802.11ac VHT80 Core 1 - 5610 MHz
Band Edge Frequency 5725 MHz

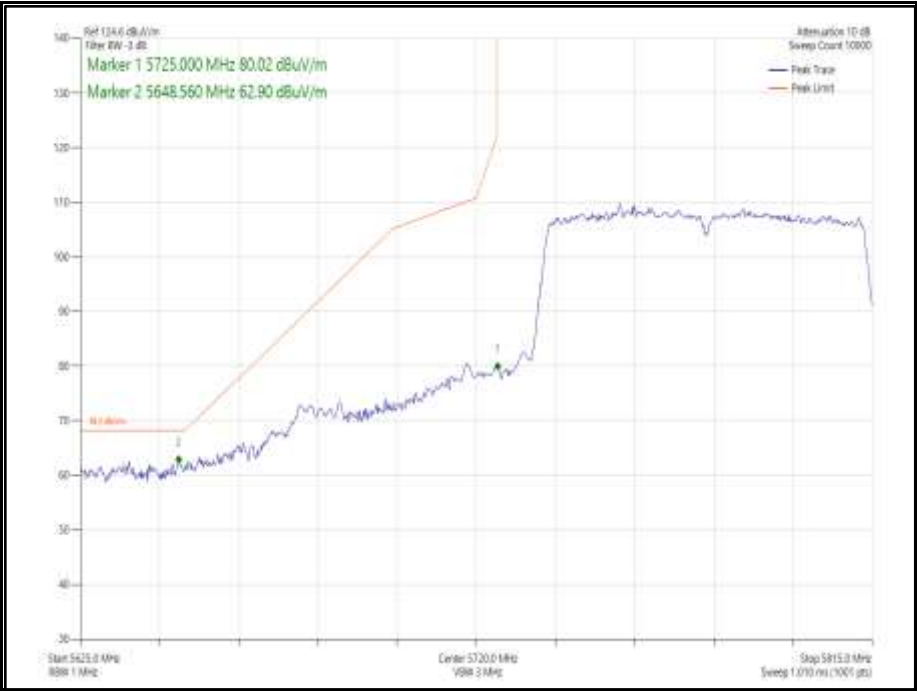


Figure 1013 - 802.11ac VHT80 Core 1 - 5775 MHz
Band Edge Frequency 5725 MHz

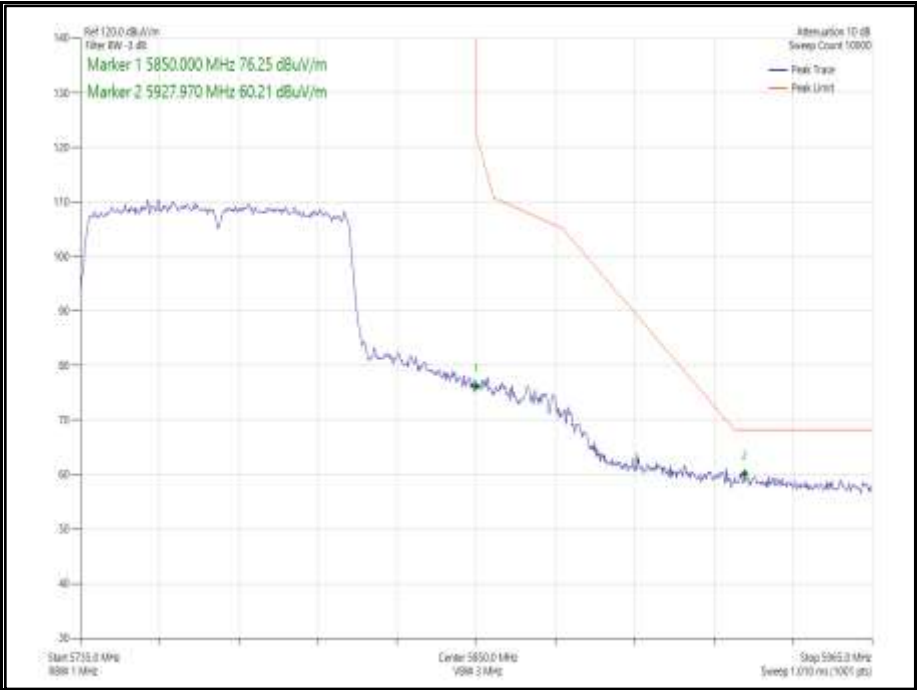


Figure 1014 - 802.11ac VHT80 Core 1 - 5775 MHz
Band Edge Frequency 5850 MHz

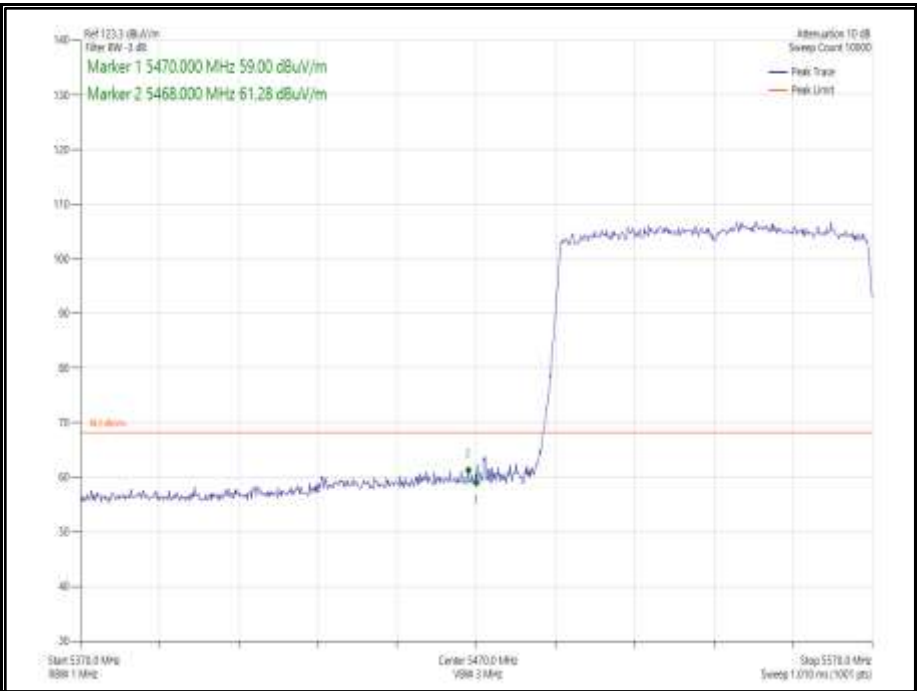
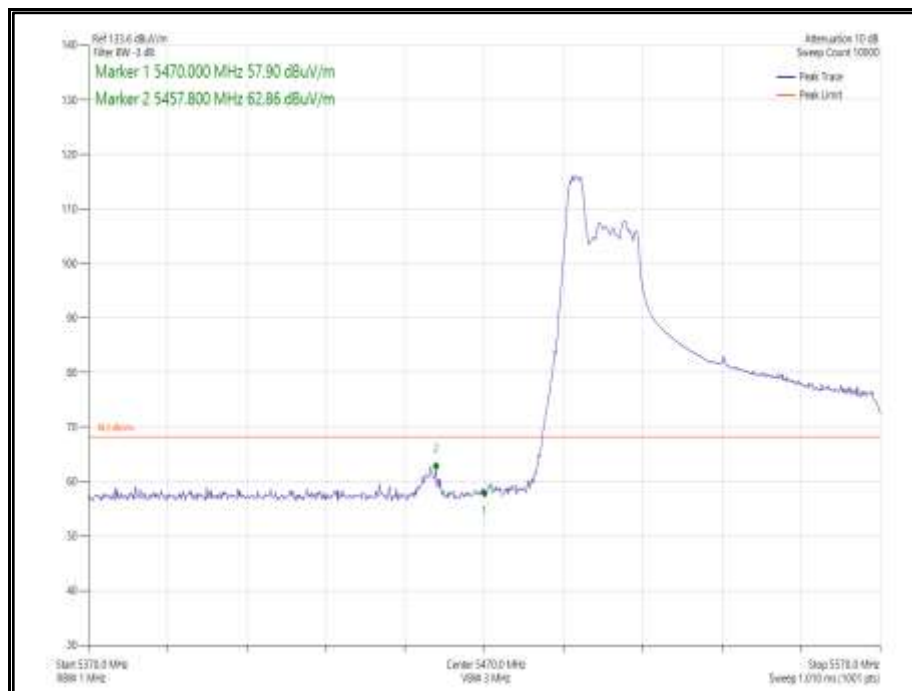
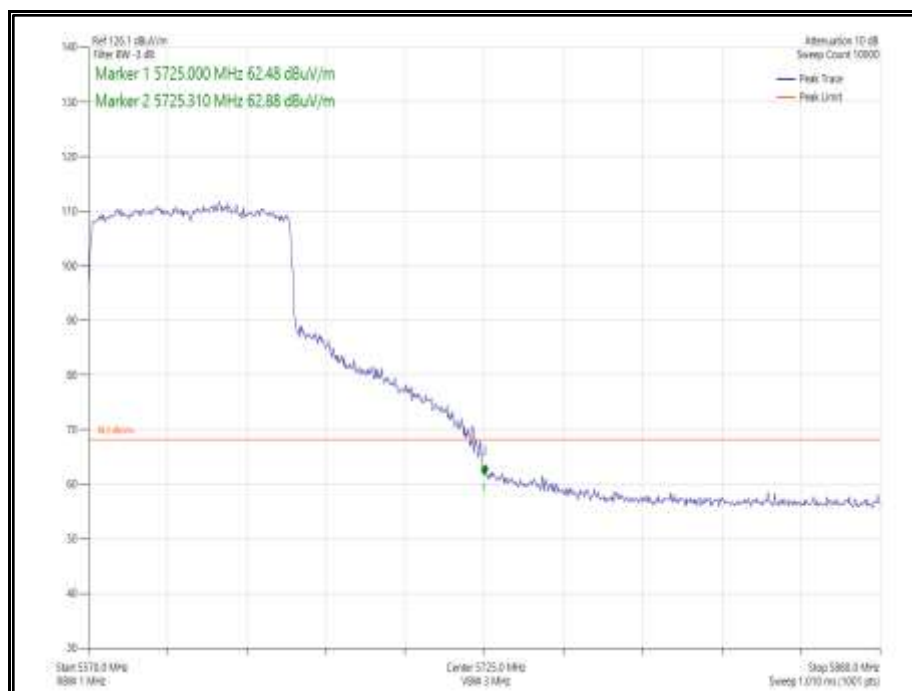


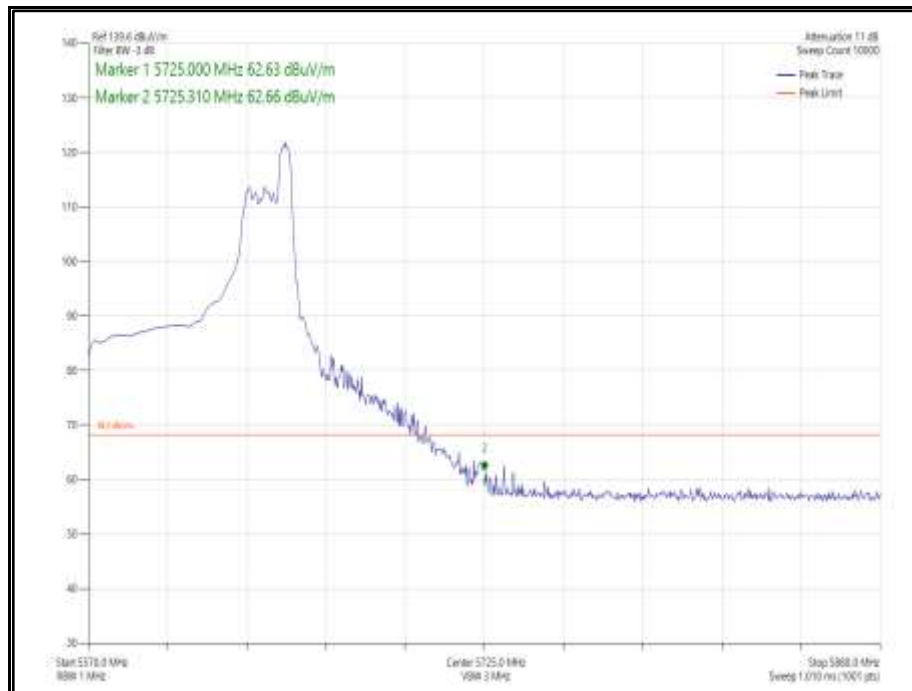
Figure 1015 - 802.11ax HE80 Core 1 SU - 5530 MHz
Band Edge Frequency 5470 MHz



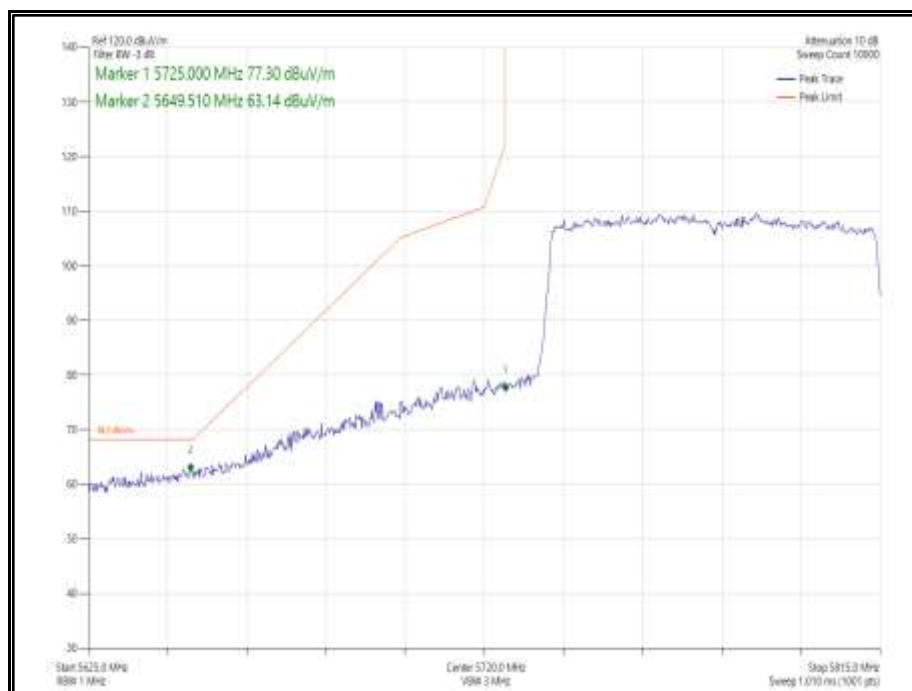
**Figure 1016 - 802.11ax HE80 Core 1 52-37- 5530 MHz
Band Edge Frequency 5470 MHz**



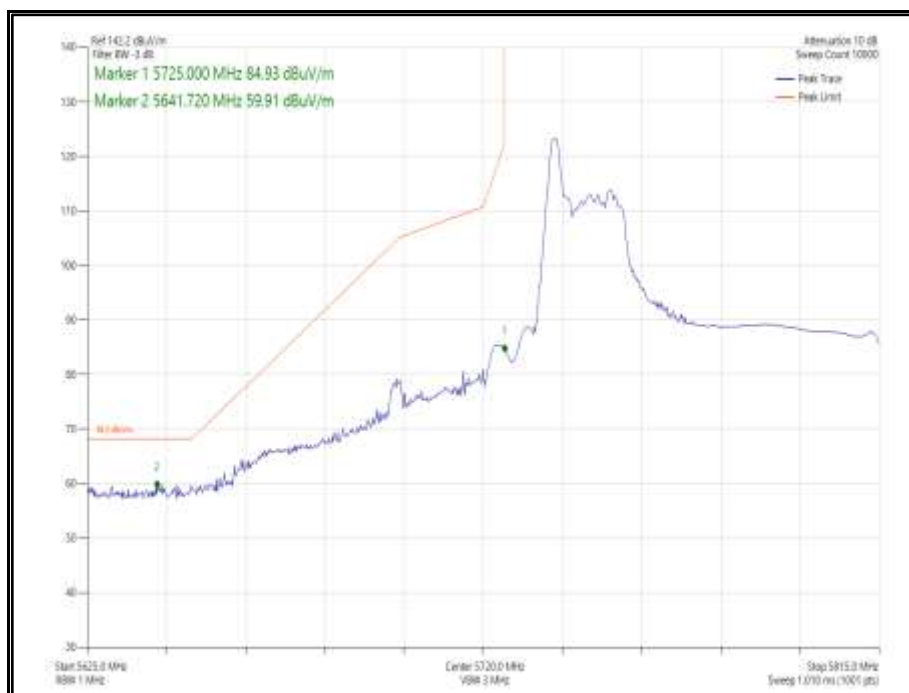
**Figure 1017 - - 802.11ax HE80 Core 1 SU - 5610 MHz
Band Edge Frequency 5725 MHz**



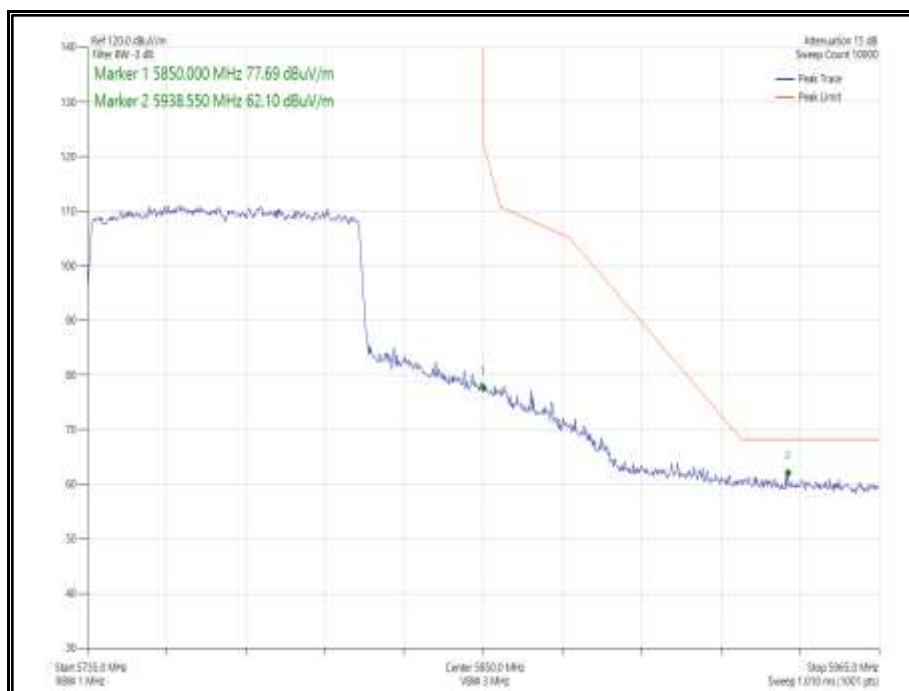
**Figure 1018 - - 802.11ax HE80 Core 1 52-52 - 5610 MHz
Band Edge Frequency 5725 MHz**



**Figure 1019 - 802.11ax HE80 Core 1 SU - 5775 MHz
Band Edge Frequency 5725 MHz**



**Figure 1020 - 802.11ax HE80 Core 1 26-0 - 5775 MHz
Band Edge Frequency 5725 MHz**



**Figure 1021 - 802.11ax HE80 Core 1 SU - 5775 MHz
Band Edge Frequency 5850 MHz**

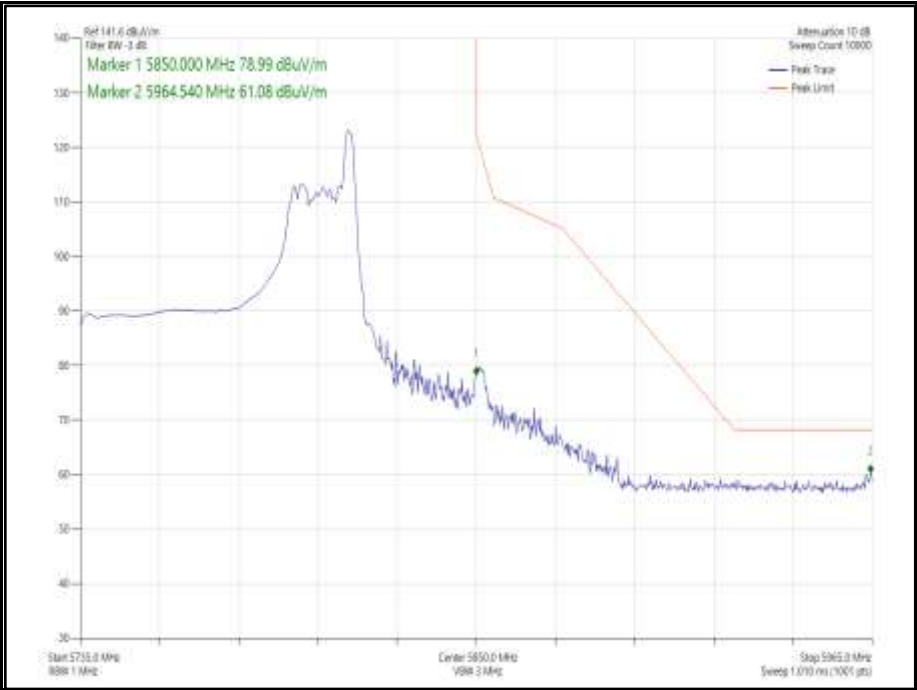
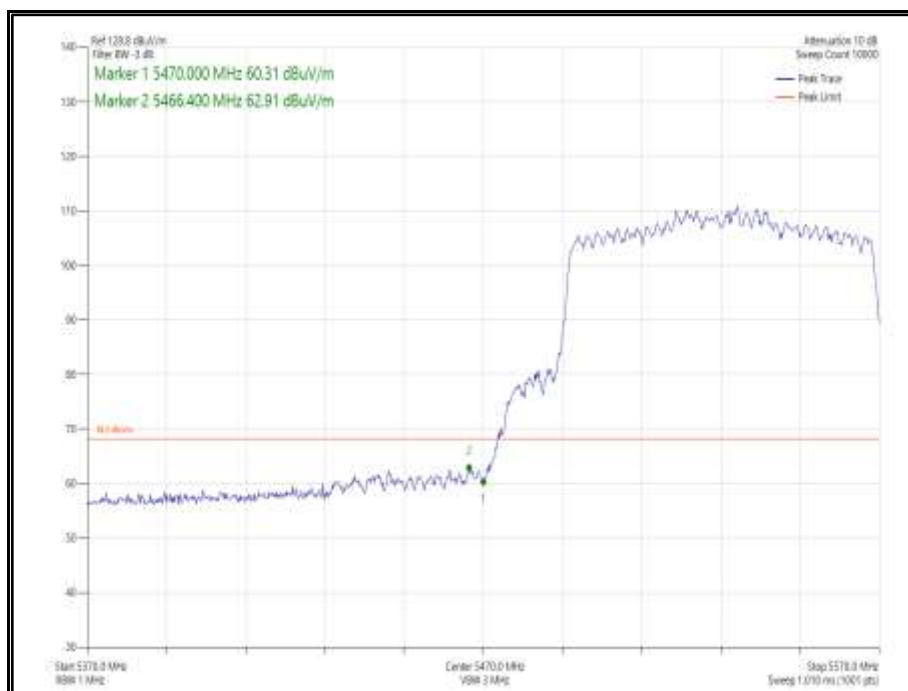


Figure 1022 - 802.11ax HE80 Core 1 26-36 - 5775 MHz
Band Edge Frequency 5850 MHz

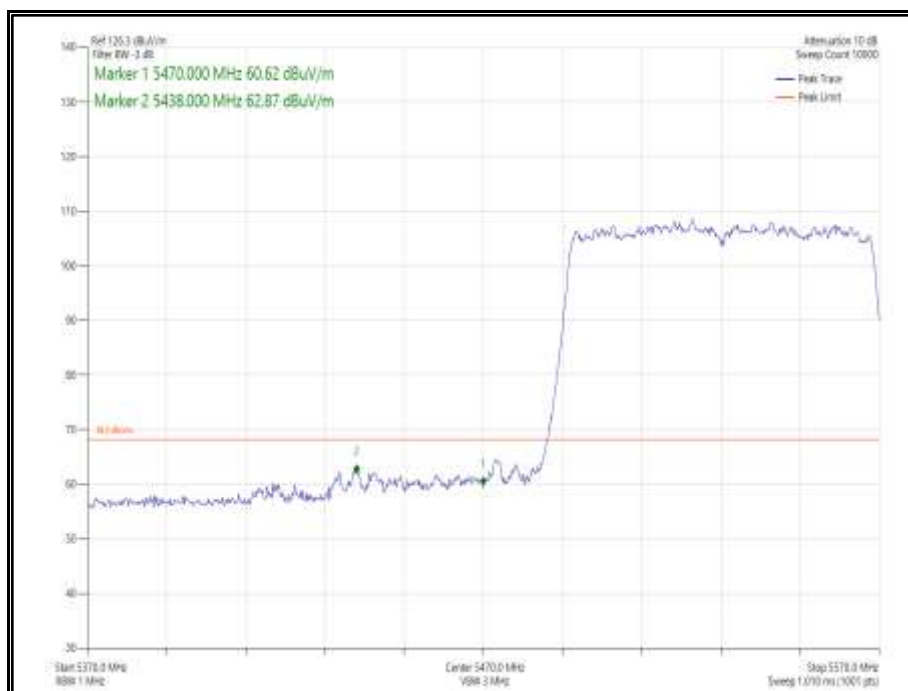


| Mode | Data Rate/ MCS | Resource size | Resource Index | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBuV/m) |
|----------------------------------|-------------------|------------------|-------------------|--------------------------|---------------------------------|----------------|
| 802.11ac VHT80 CDD, Cores 0-1 | MCS4 | - | - | 5530 | 5470 | 62.91 |
| 802.11ac VHT80 SDM, Cores 0-1 | MCS15 | - | - | 5530 | 5470 | 62.87 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS 2x1 | SU | - | 5530 | 5470 | 62.60 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | 52 | 37 | 5530 | 5470 | 63.06 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | SU | - | 5530 | 5470 | 62.90 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | 52 | 37 | 5530 | 5470 | 63.04 |
| 802.11ac VHT80 CDD, Cores 0-1 | MCS4 | - | - | 5610 | 5725 | 62.43 |
| 802.11ac VHT80 SDM, Cores 0-1 | MCS15 | - | - | 5610 | 5725 | 63.03 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | SU | - | 5610 | 5725 | 62.75 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | 52 | 52 | 5610 | 5725 | 62.30 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS2x2 | SU | - | 5610 | 5725 | 62.75 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | 52 | 52 | 5610 | 5725 | 62.67 |
| 802.11ac VHT80 CDD, Cores 0-1 | MCS7 | - | - | 5775 | 5725 | 62.84 |
| 802.11ac VHT80 SDM, Cores 0-1 | MCS15 | - | - | 5775 | 5725 | 63.07 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS7x1 | SU | - | 5775 | 5725 | 62.70 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | 26 | 0 | 5775 | 5725 | 60.72 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | SU | - | 5775 | 5725 | 62.80 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | 26 | 0 | 5775 | 5725 | 60.83 |
| 802.11ac VHT80 CDD, Cores 0-1 | MCS7x1 | - | - | 5775 | 5850 | 62.84 |
| 802.11ac VHT80 SDM, Cores 0-1 | MCS7x2 | - | - | 5775 | 5850 | 63.07 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | SU | - | 5775 | 5850 | 60.54 |
| 802.11ax HE80 CDD, Cores 0-1 | MCS11x1 | 26 | 36 | 5775 | 5850 | 62.37 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | SU | - | 5775 | 5850 | 61.63 |
| 802.11ax HE80 SDM, Cores 0-1 | MCS11x2 | 26 | 36 | 5775 | 5850 | 60.69 |

Table 664 - 80 MHz Bandwidth 2TX MIMO Authorised Band Edge Results



**Figure 1023 - 802.11ac VHT80 CDD, Cores 0-1 - 5530 MHz
Band Edge Frequency 5470 MHz**



**Figure 1024 - 802.11ac VHT80 SDM, Cores 0-1 - 5530 MHz
Band Edge Frequency 5470 MHz**

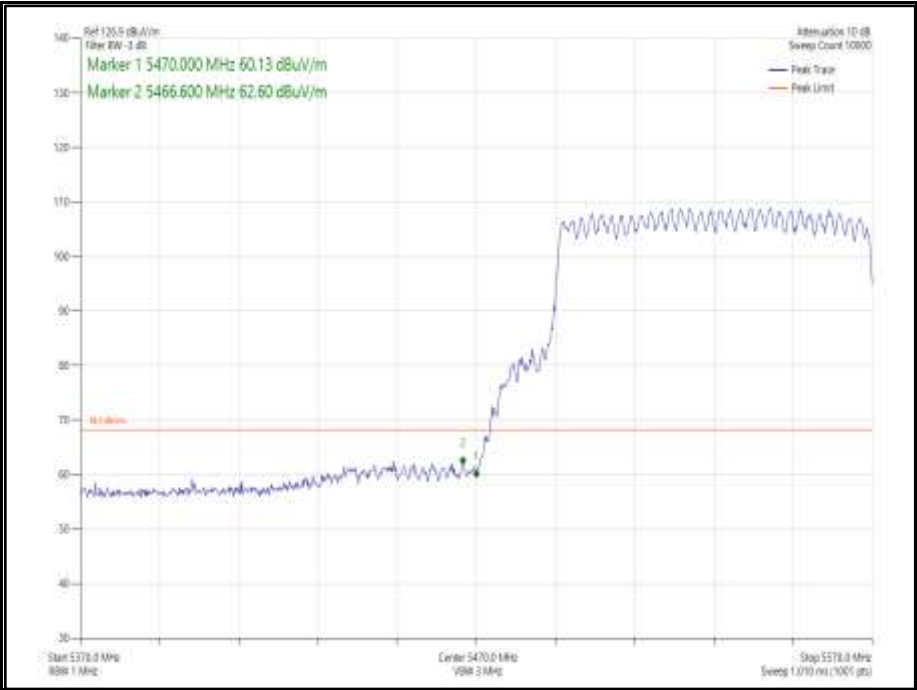


Figure 1025 - 802.11ax HE80 CDD, Cores 0-1, SU - 5530 MHz
Band Edge Frequency 5470 MHz

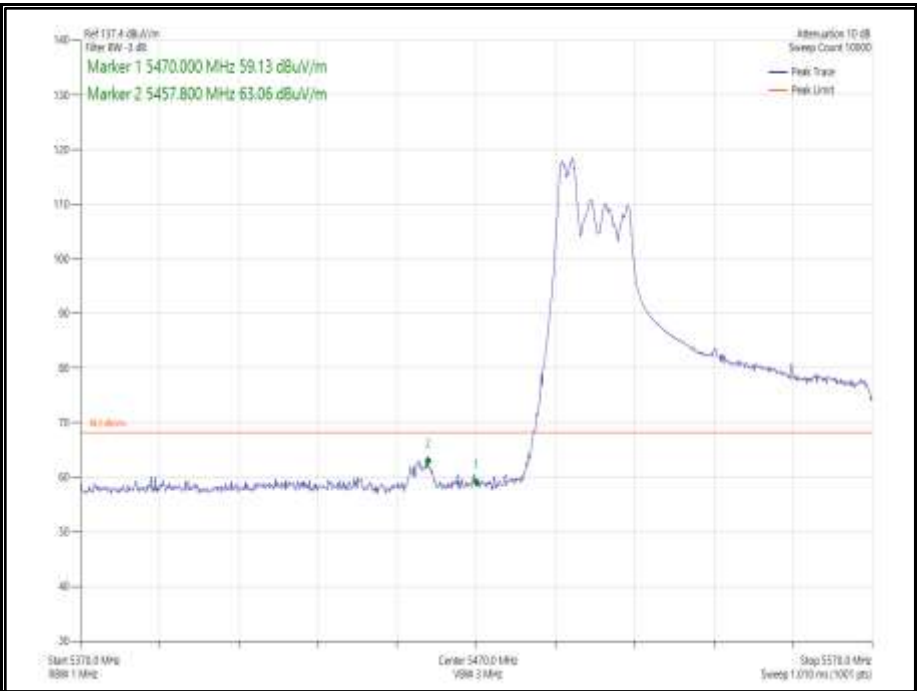
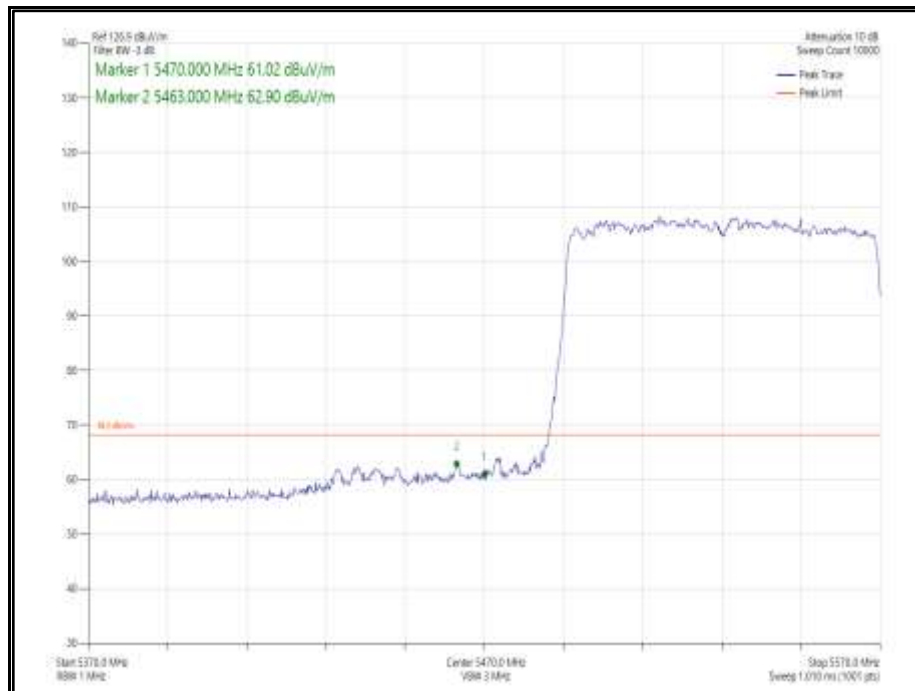
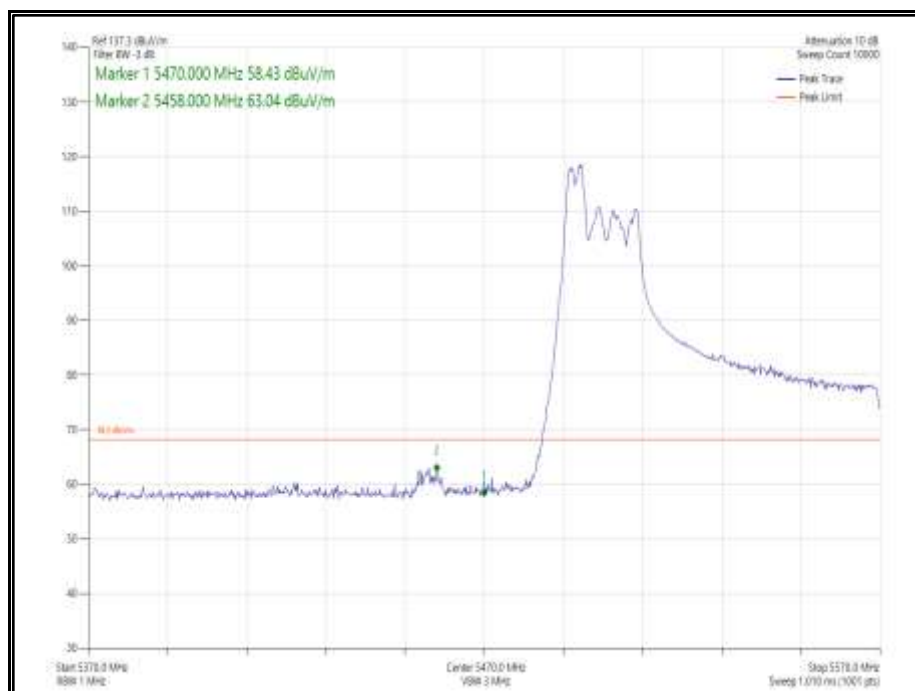


Figure 1026 - 802.11ax HE80 CDD, Cores 0-1, 52-37- 5530 MHz
Band Edge Frequency 5470 MHz



**Figure 1027 - 802.11ax HE80 SDM, Cores 0-1, SU - 5530 MHz
Band Edge Frequency 5470 MHz**



**Figure 1028 - 802.11ax HE80 SDM, Cores 0-1, 52-37 - 5530 MHz
Band Edge Frequency 5470 MHz**

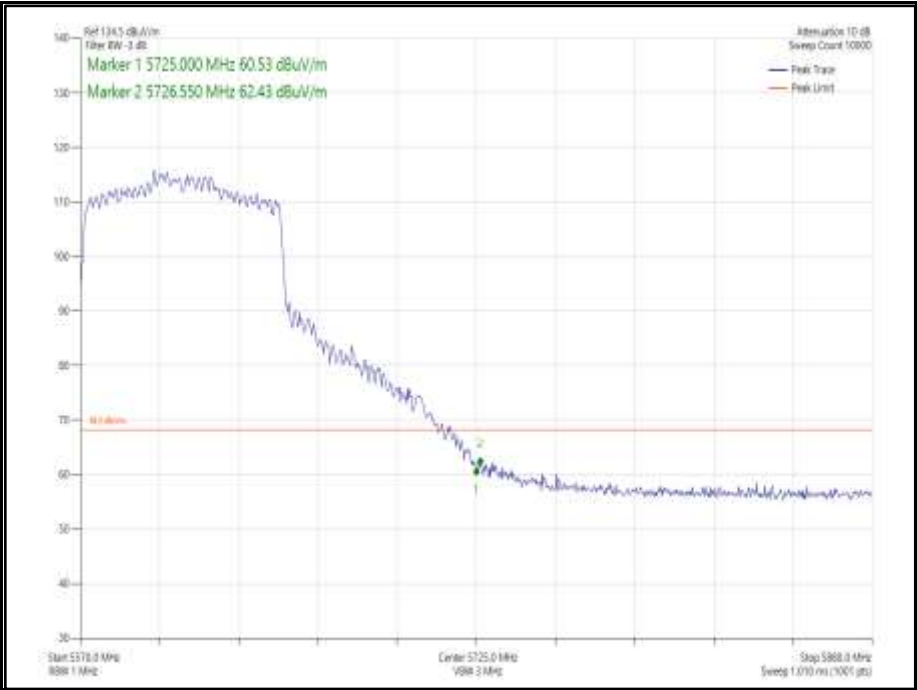


Figure 1029 - 802.11ac VHT80 CDD, Cores 0-1 - 5610 MHz
Band Edge Frequency 5725 MHz

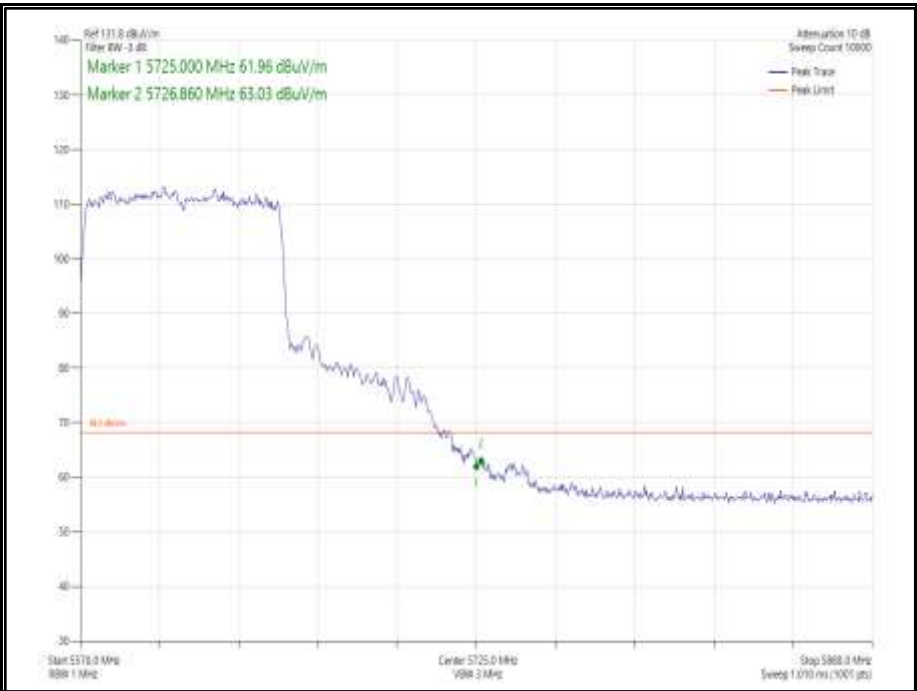
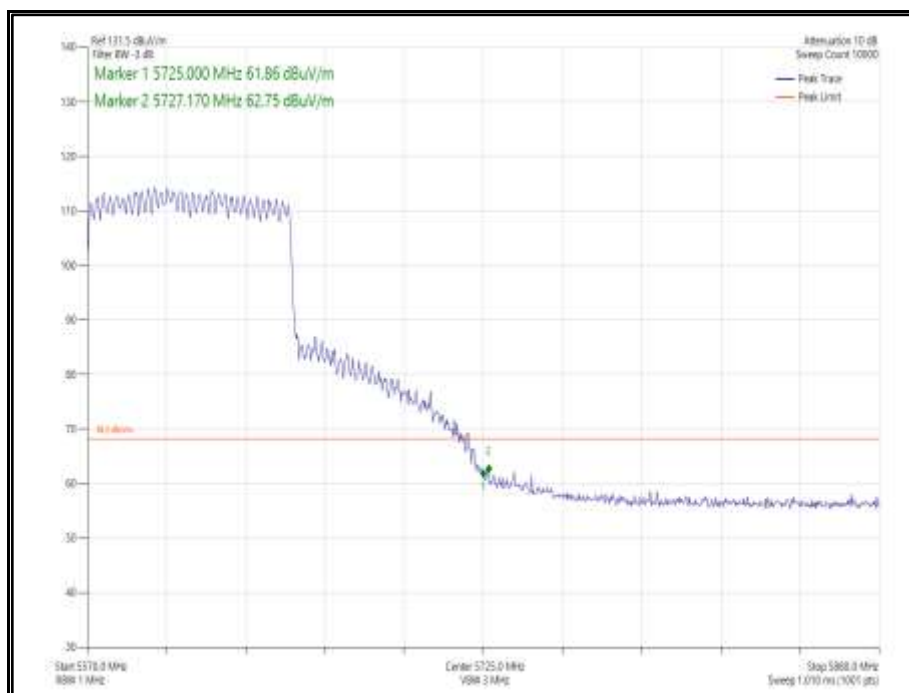
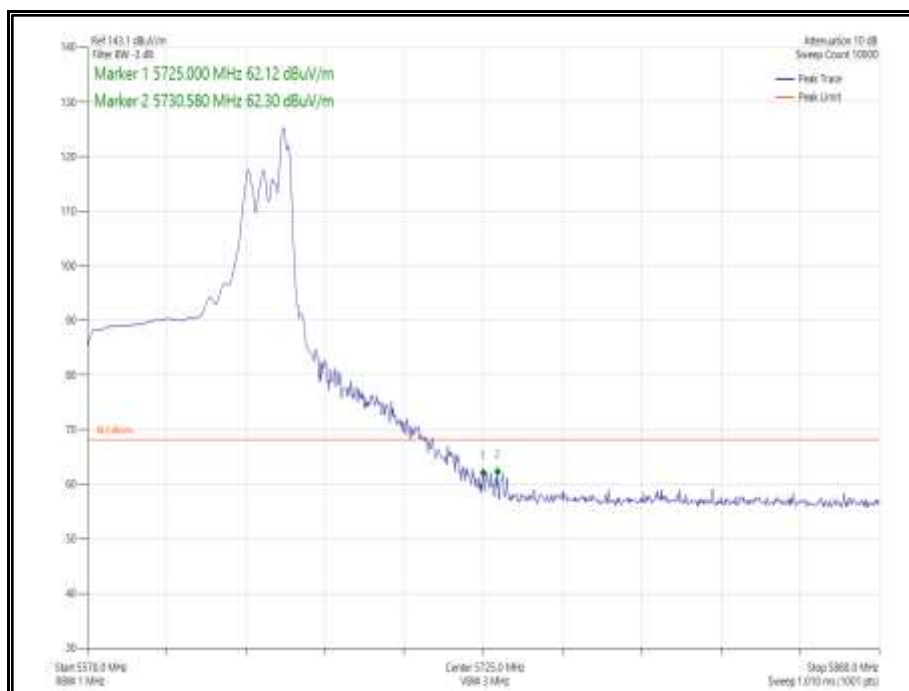


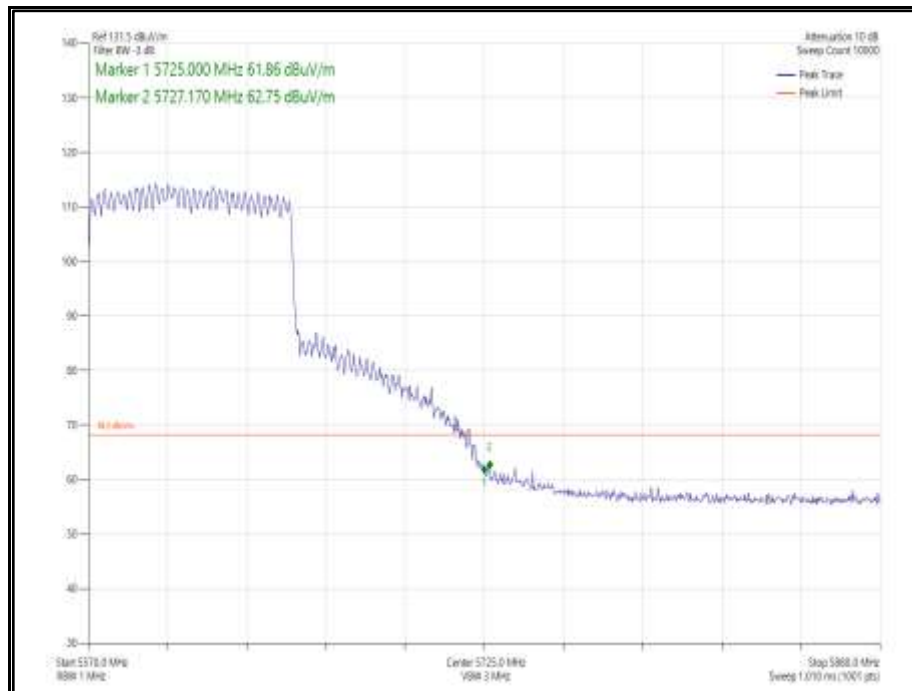
Figure 1030 - 802.11ac VHT80 SDM, Cores 0-1 - 5610 MHz
Band Edge Frequency 5725 MHz



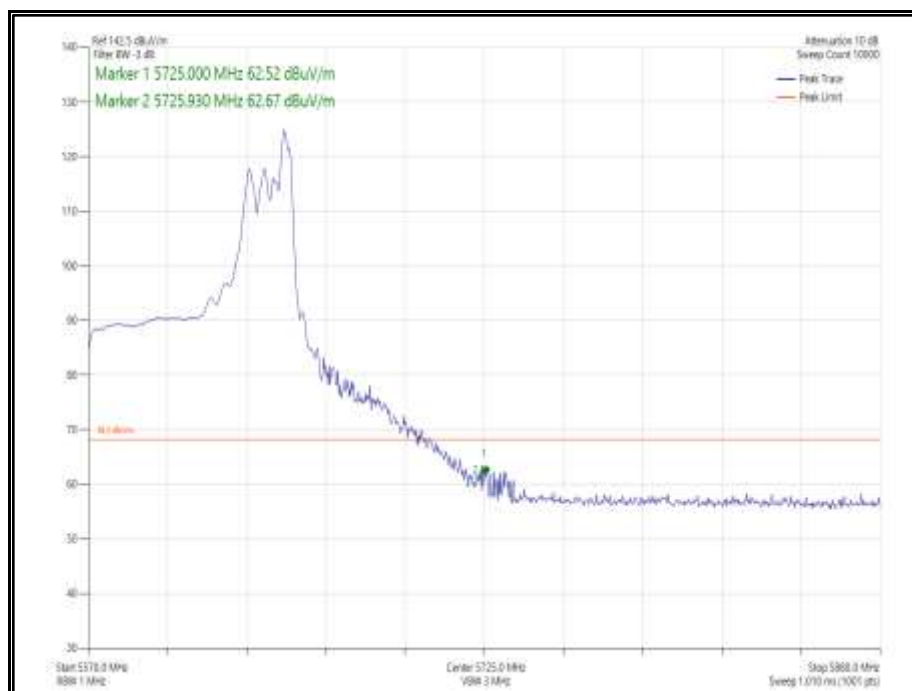
**Figure 1031 - 802.11ax HE80 CDD, Cores 0-1, SU - 5610 MHz
Band Edge Frequency 5725 MHz**



**Figure 1032 - 802.11ax HE80 CDD, Cores 0-1, 52-52- 5610 MHz
Band Edge Frequency 5725 MHz**



**Figure 1033 - 802.11ax HE80 SDM, Cores 0-1, SU - 5610 MHz
Band Edge Frequency 5725 MHz**



**Figure 1034 - 802.11ax HE80 SDM, Cores 0-1, 26-36 - 5610 MHz
Band Edge Frequency 5725 MHz**

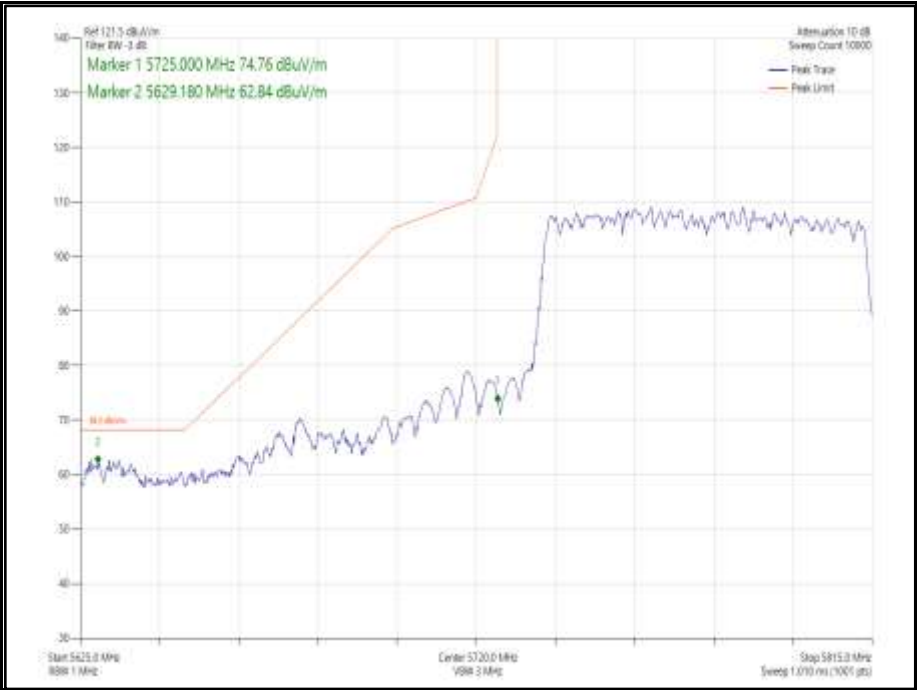


Figure 1035 - 802.11ac VHT80 CDD, Cores 0-1 - 5775 MHz
Band Edge Frequency 5725 MHz

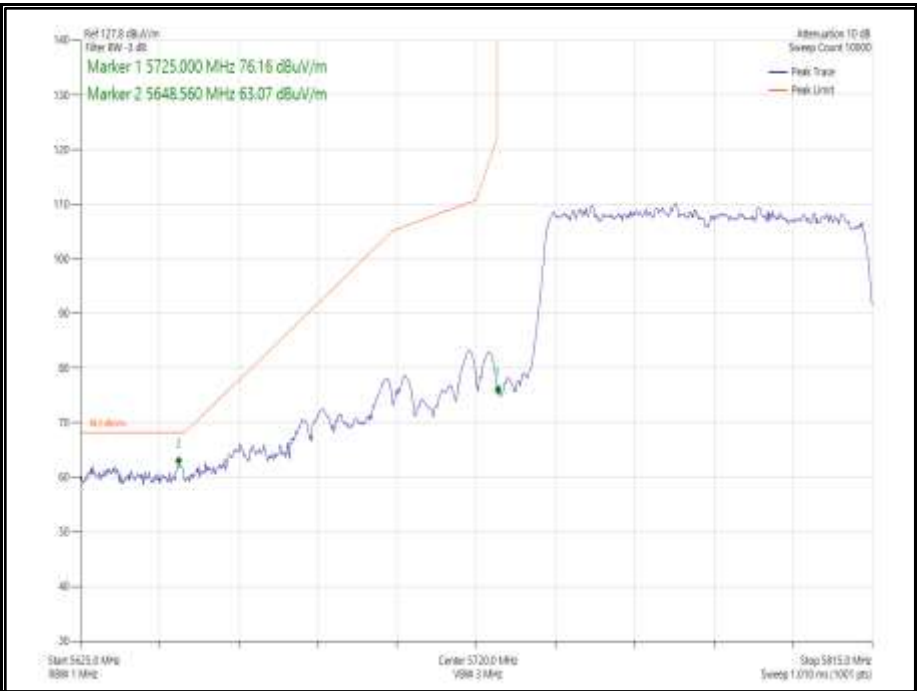
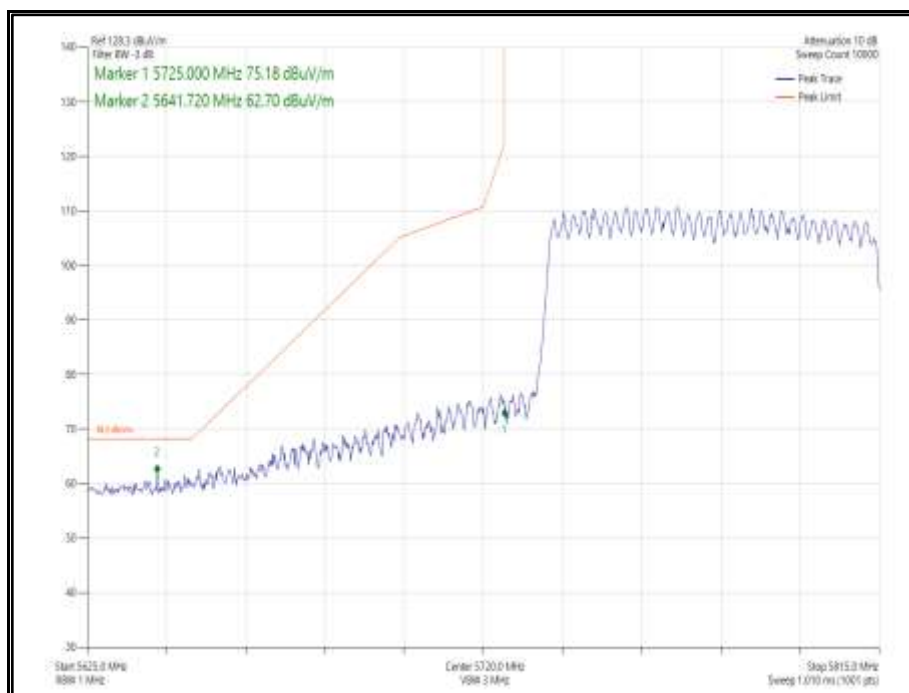
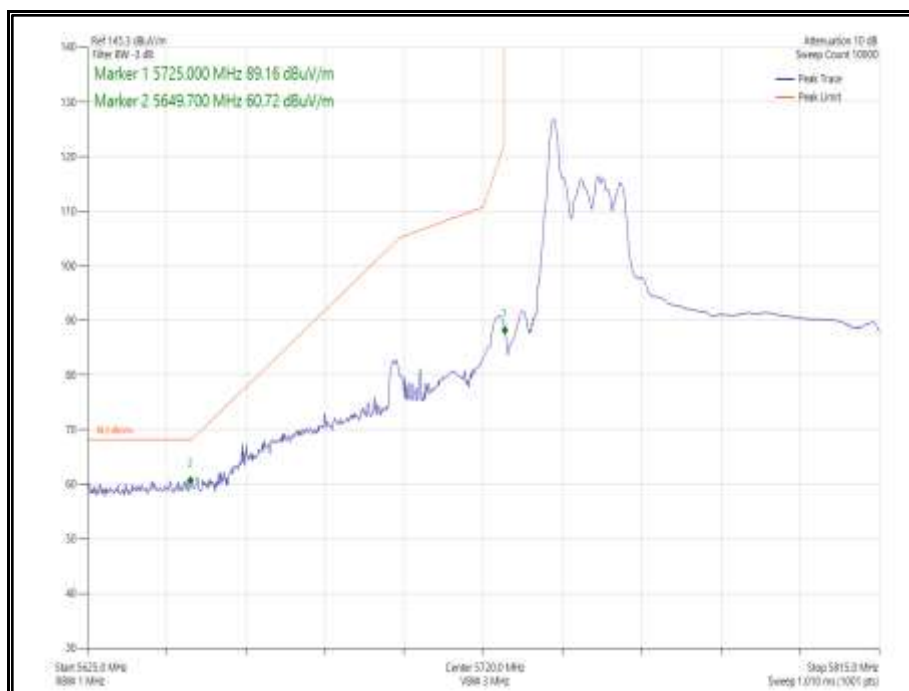


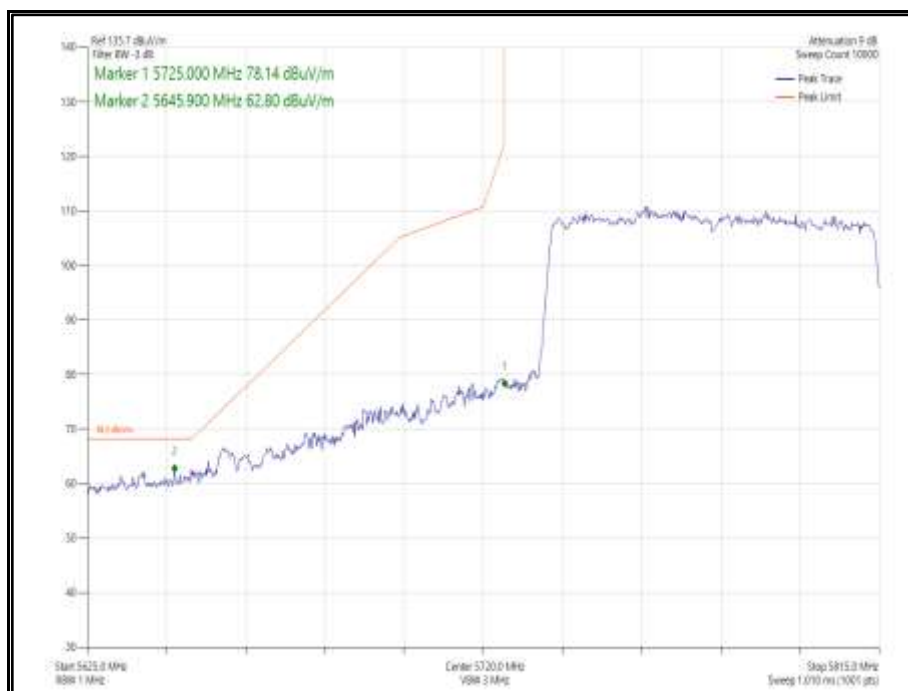
Figure 1036 - 802.11ac VHT80 SDM, Cores 0-1 - 5775 MHz
Band Edge Frequency 5725 MHz



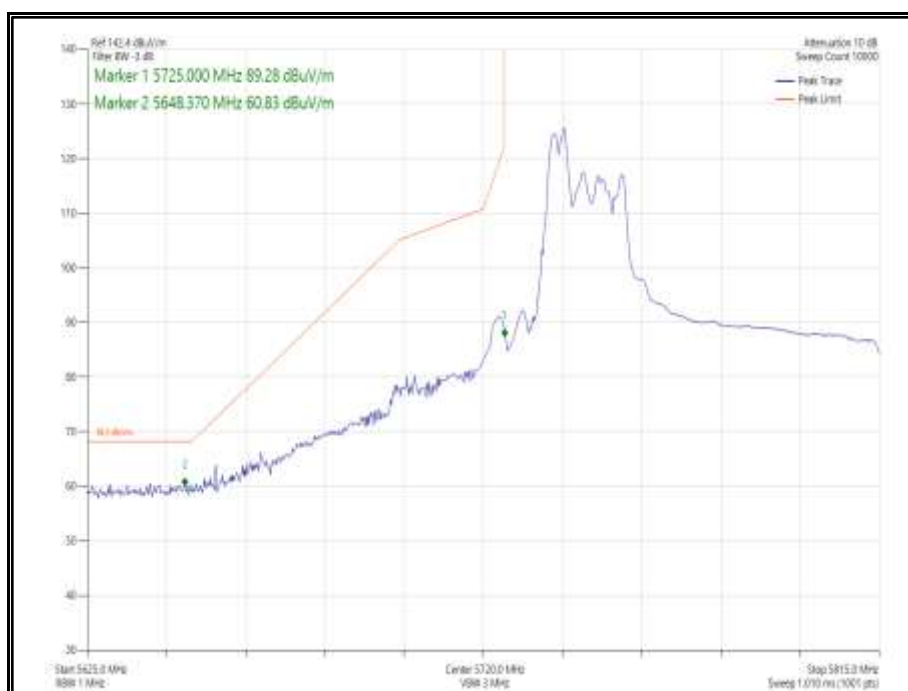
**Figure 1037 - 802.11ax HE80 CDD, Cores 0-1, SU - 5775 MHz
Band Edge Frequency 5725 MHz**



**Figure 1038 - 802.11ax HE80 CDD, Cores 0-1, 26-0 - 5775 MHz
Band Edge Frequency 5725 MHz**



**Figure 1039 - 802.11ax HE80 SDM, Cores 0-1, SU - 5775 MHz
Band Edge Frequency 5725 MHz**



**Figure 1040 - 802.11ax HE80 SDM, Cores 0-1, 26-0 - 5775 MHz
Band Edge Frequency 5725 MHz**

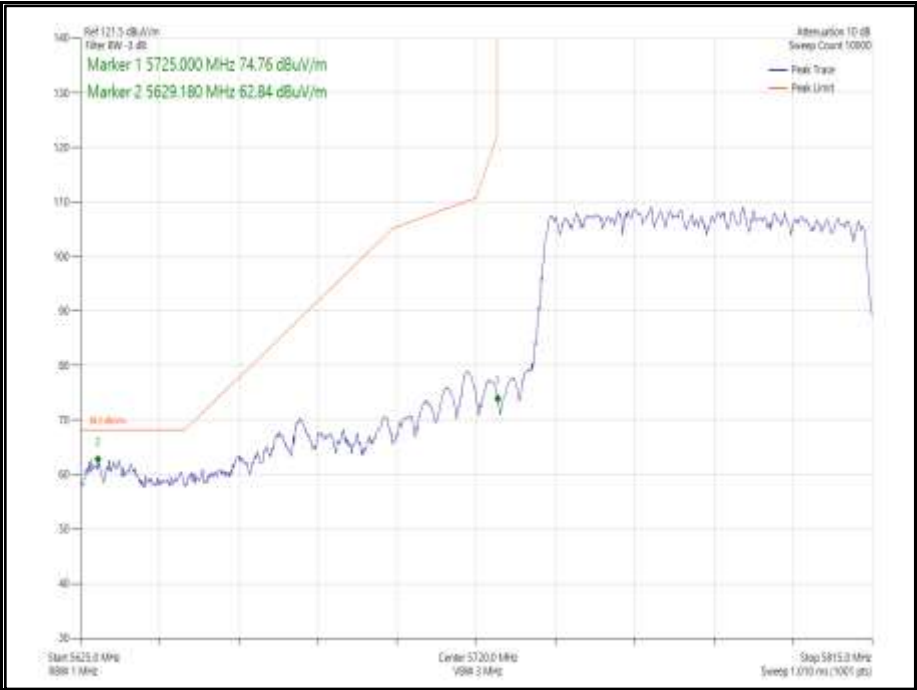


Figure 1041 - 802.11ac VHT80 CDD, Cores 0-1 - 5775 MHz
Band Edge Frequency 5850 MHz

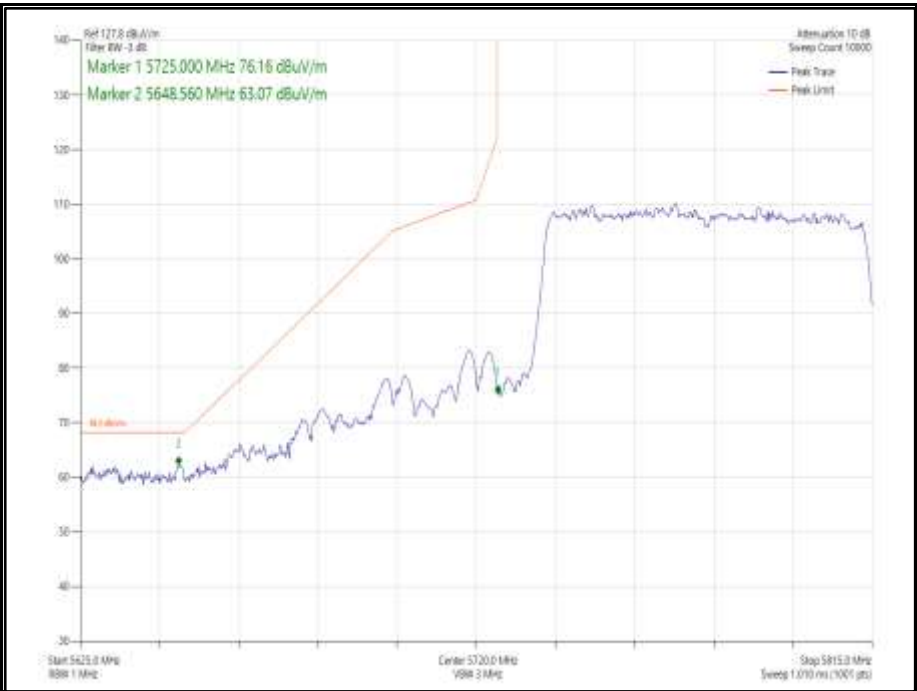
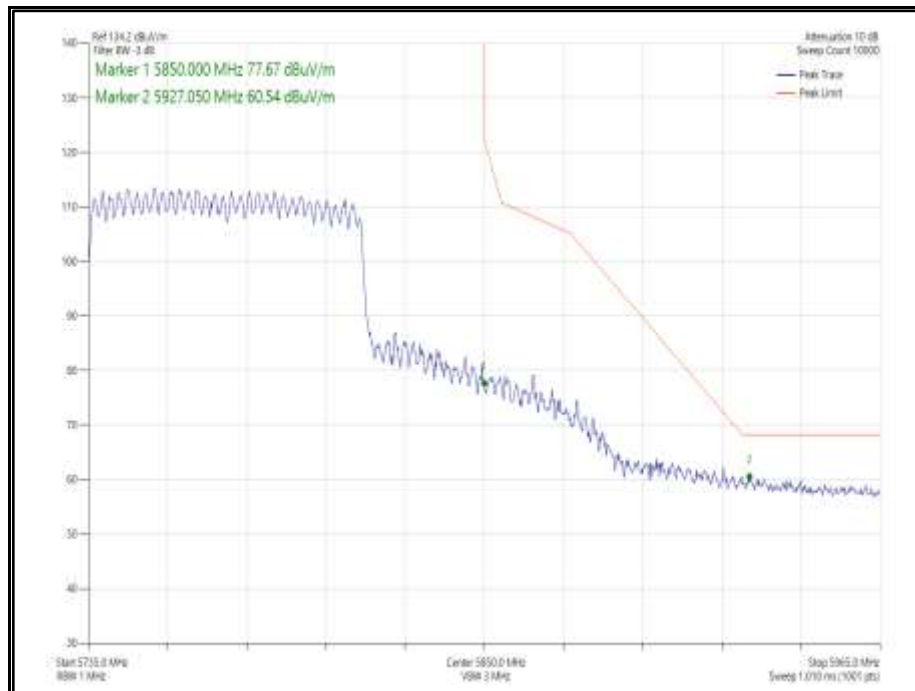
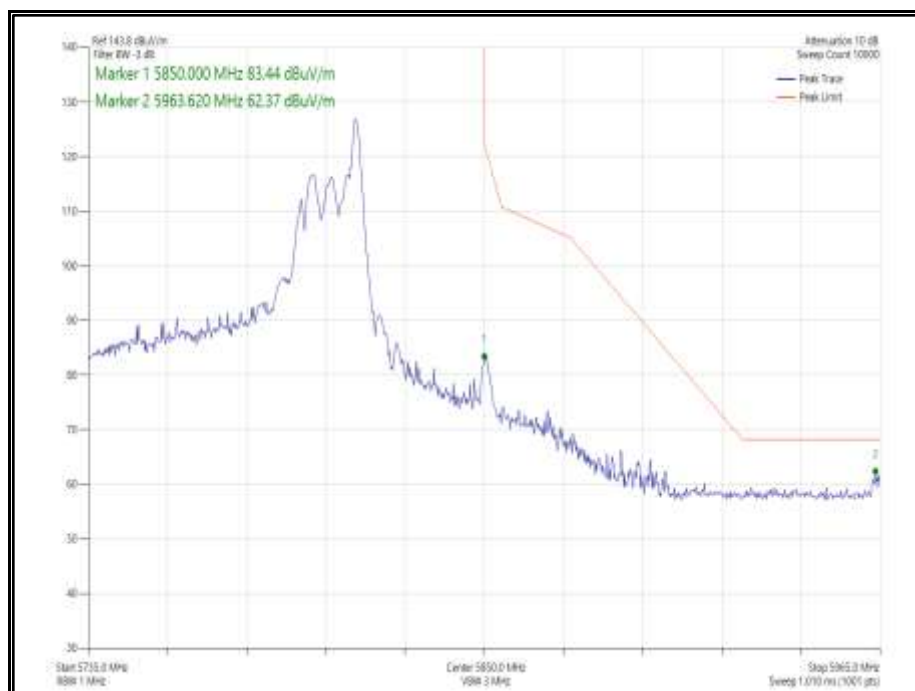


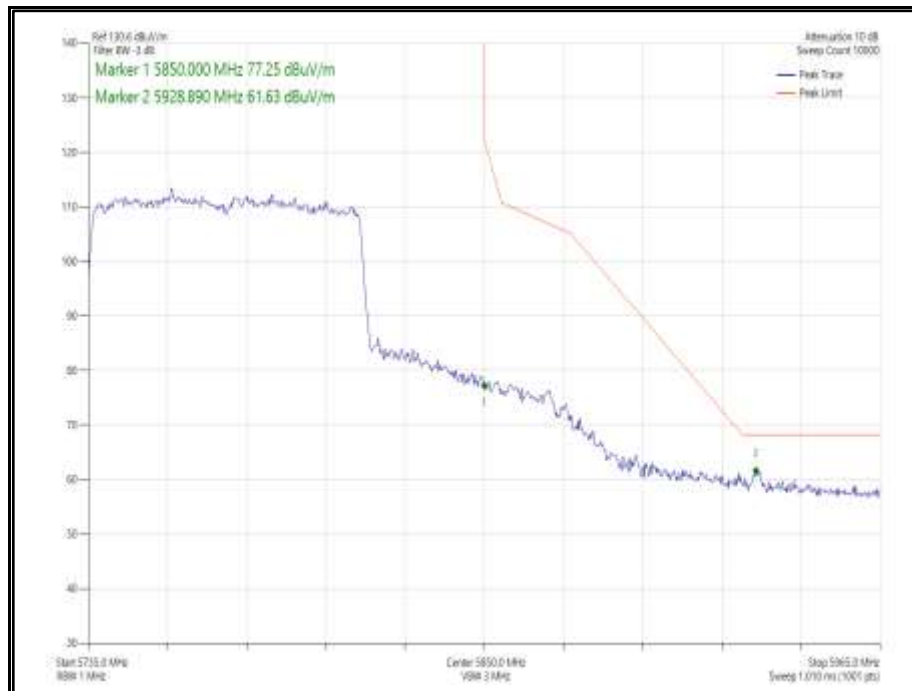
Figure 1042 - 802.11ac VHT80 SDM, Cores 0-1 - 5775 MHz
Band Edge Frequency 5850 MHz



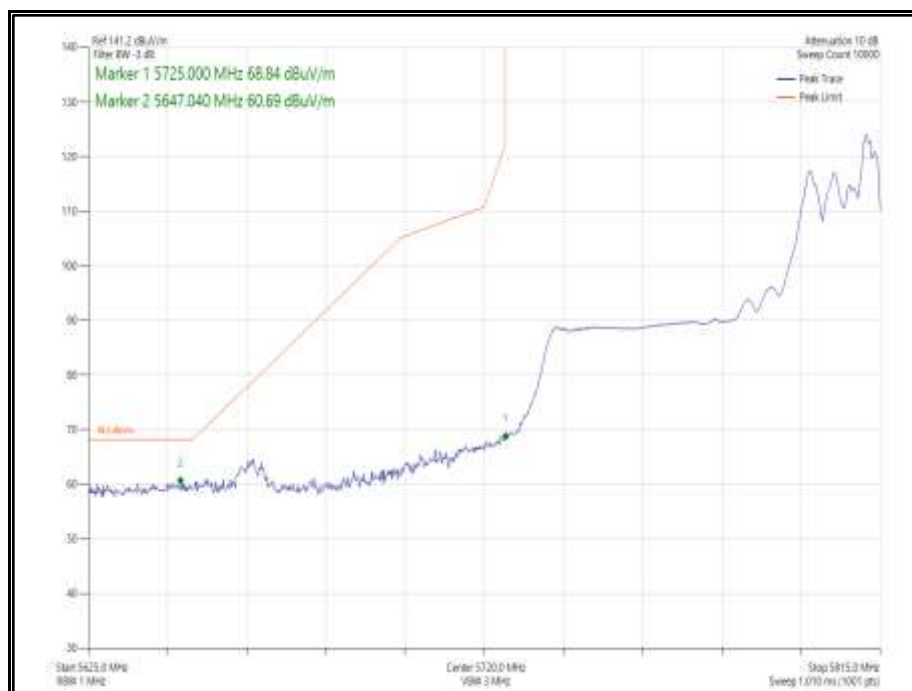
**Figure 1043 - 802.11ax HE80 CDD, Cores 0-1, SU - 5775 MHz
Band Edge Frequency 5850 MHz**



**Figure 1044 - 802.11ax HE80 CDD, Cores 0-1, 2d 6-36 - 5775 MHz
Band Edge Frequency 5850 MHz**



**Figure 1045 - 802.11ax HE80 SDM, Cores 0-1, SU -- 5775 MHz
Band Edge Frequency 5850 MHz**



**Figure 1046 - 802.11ax HE80 SDM, Cores 0-1, 26-36 - 5775 MHz
Band Edge Frequency 5850 MHz**



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: ≤ -27 dBm/MHz outside 5150-5350 MHz.

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

For transmitters operating in the 5.47-5.725 GHz band: ≤ -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 and 6.2.4.2

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

-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.



2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------------|-----------------|----------------------|-------|-----------------------------|---------------------|
| Double Ridge Broadband Horn Antenna | Schwarzbeck | BBHA 9120 B | 4848 | 12 | 01-Apr-2022 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 5084 | 12 | 08-Mar-2022 |
| EmX Emissions Software | TUV SUD | V2.1.11 | 5125 | - | Software |
| Mast | Maturo | TAM 4.0-P | 5158 | - | TU |
| Mast and Turntable Controller | Maturo | Maturo NCD | 5159 | - | TU |
| Turntable | Maturo | TT 15WF | 5160 | - | TU |
| Preamplifier (30dB 1GHz to 18GHz) | Schwarzbeck | BBV 9718 C | 5261 | 12 | 08-Apr-2022 |
| Attenuator 5W 10dB DC-18GHz | Aaren | AT40A-4041-D18-10 | 5495 | 12 | 14-Apr-2022 |
| 1m SMA Cable | Junkosha | MWX221-01000AMSAMS/A | 5513 | 12 | 09-Apr-2022 |
| 2m SMA Cable | Junkosha | MWX221-02000AMSAMS/A | 5517 | 12 | 09-Apr-2022 |
| 2m SMA Cable | Junkosha | MWX221-02000AMSAMS/A | 5518 | 12 | 09-Apr-2022 |
| 8m N Type Cable | Junkosha | MWX221-08000NMSNMS/B | 5520 | 12 | 24-Mar-2022 |
| 8m N Type Cable | Junkosha | MWX221-08000NMSNMS/B | 5522 | 12 | 24-Mar-2022 |
| 2m K Type Cable | Junkosha | MWX241-02000KMSKMS/A | 5524 | 12 | 24-Mar-2022 |

Table 665

TU - Traceability Unscheduled



2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

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

2.6.2 Equipment Under Test and Modification State

A2485, S/N: HV9QMW620K - Modification State 0

2.6.3 Date of Test

21-July-2021 to 02-August-2021

2.6.4 Test Method

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

Tests were performed from 30 MHz to 1 GHz on channel 36 (5180 MHz) and channel 165 (5825 MHz) only. Spurious emissions from 1 GHz to 40 GHz was performed on all test channels.

All testing, regardless of channel or mode, was performed at the EUT's maximum output power specified for any channel, mode and/or bandwidth given in the customer's power table. Therefore, due to some modes and channels in the final product being limited to lower output powers, these spurious emissions results are deemed "worst-case".

Plots for average measurements were taken in accordance with ANSI C63.10, clause 12.7.7.2 with max-hold trace to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.2.

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:
 $\text{Field Strength (dBuV/m at 3 m)} = \text{EIRP (dBm)} + 95.2 \text{ dB}$

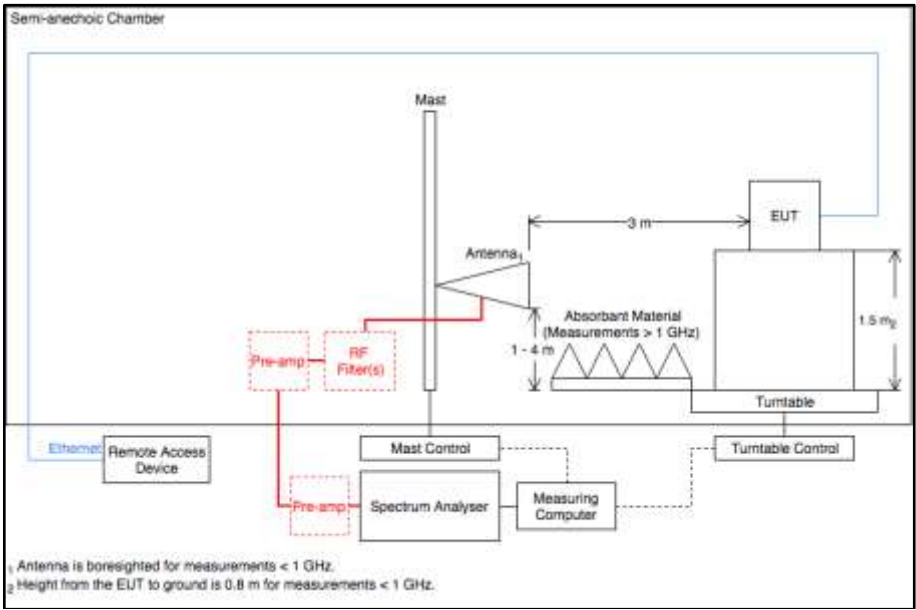


Table 666 - Radiated Emissions Test Setup Diagram

2.6.5 Environmental Conditions

| | |
|---------------------|----------------|
| Ambient Temperature | 21.1 - 23.3 °C |
| Relative Humidity | 39.2 - 44.2 % |

2.6.6 Test Results

5 GHz WLAN

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 667 - U-NII-1 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

*No emissions found within 6 dB of the limit.

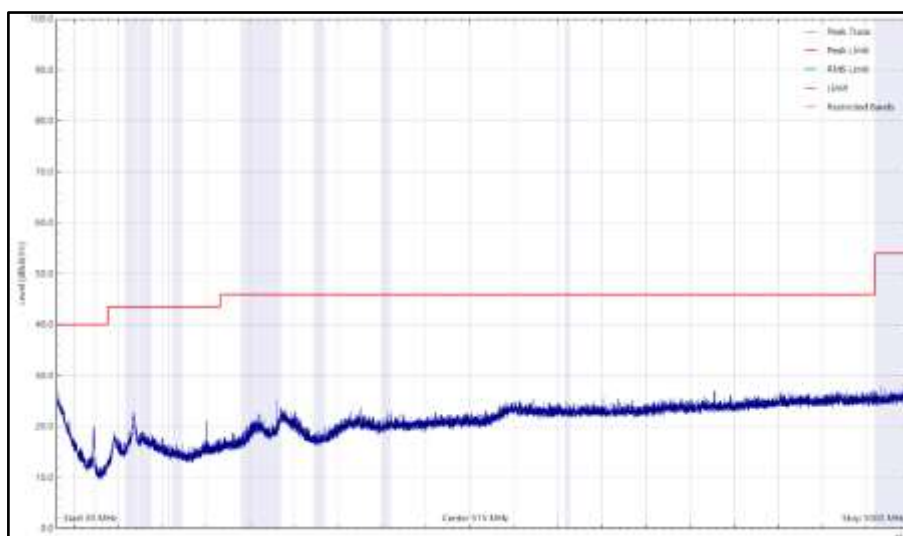


Figure 1047 - U-NII-1 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

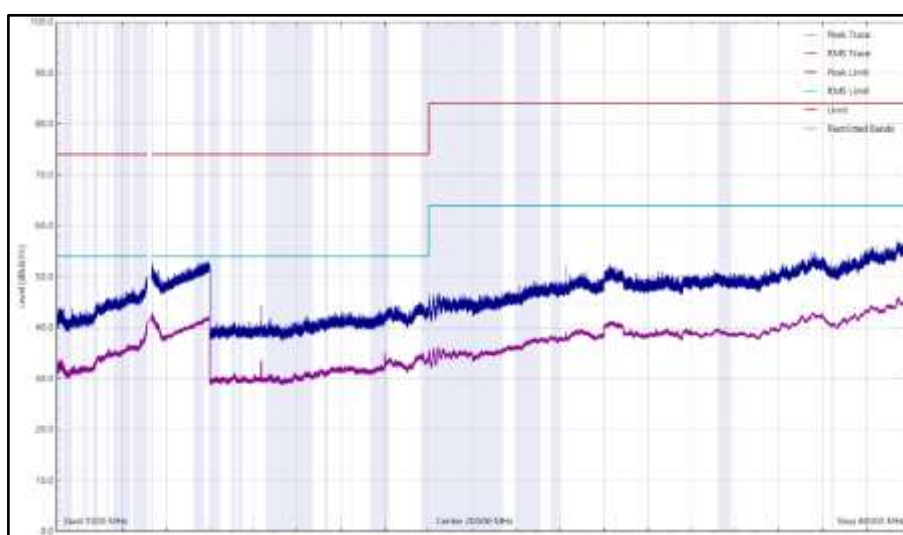


Figure 1048 - U-NII-1 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

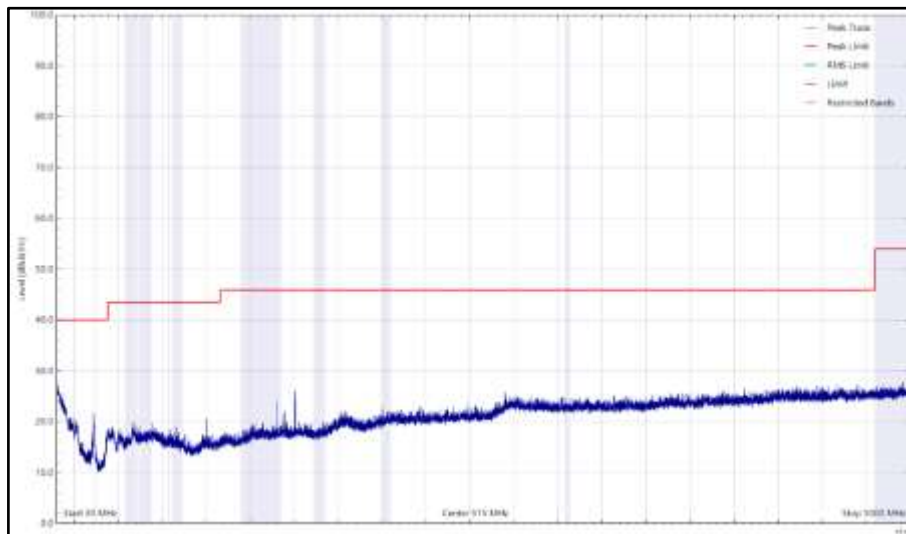


Figure 1049 - U-NII-1 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

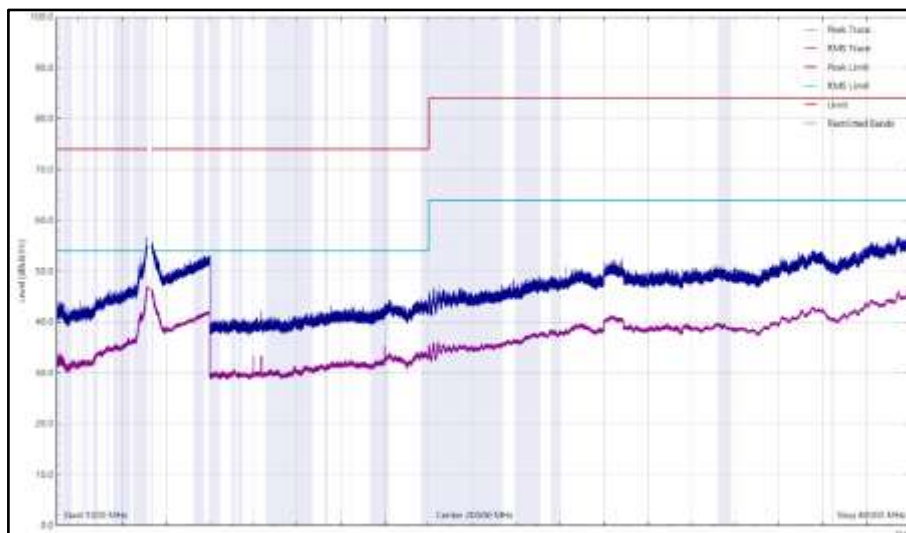


Figure 1050 - U-NII-1 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 668 - U-NII-2A - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

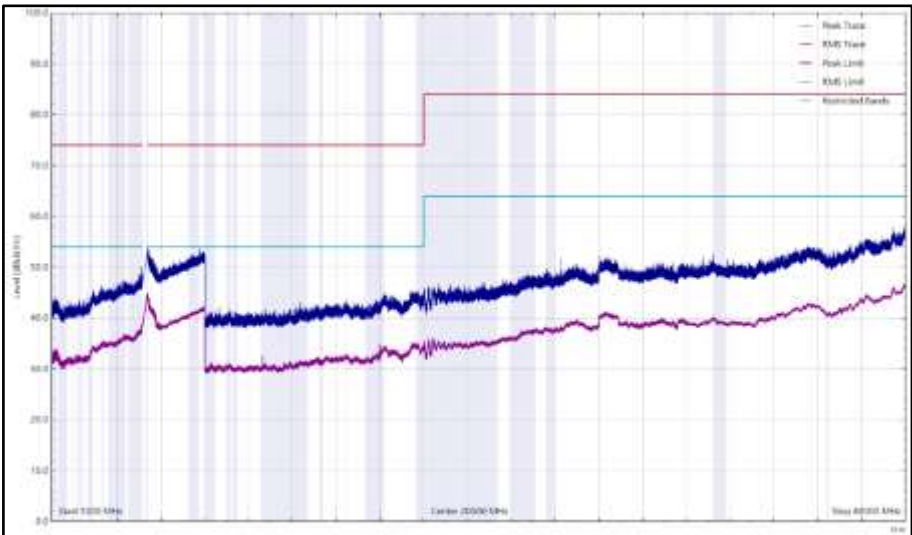


Figure 1051 - U-NII-2A - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

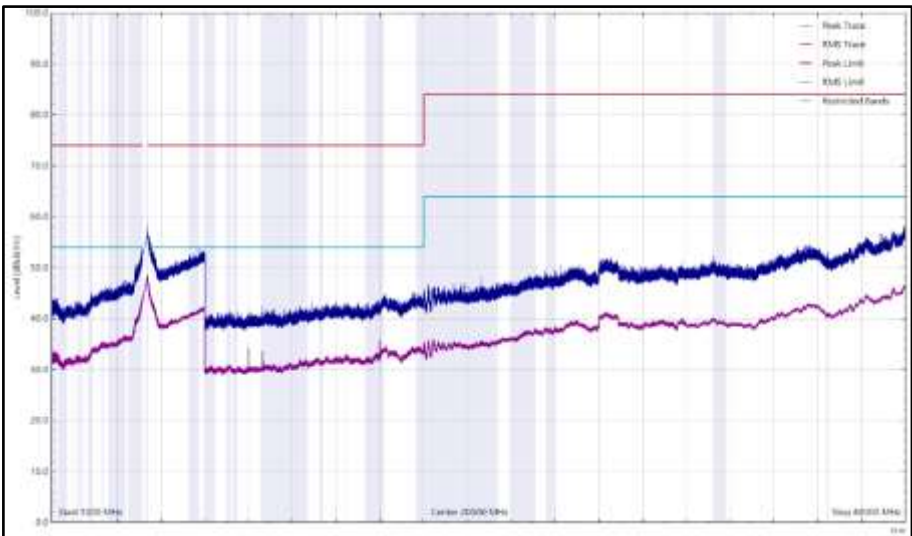


Figure 1052 - U-NII-2A - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 669 - U-NII-2C - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

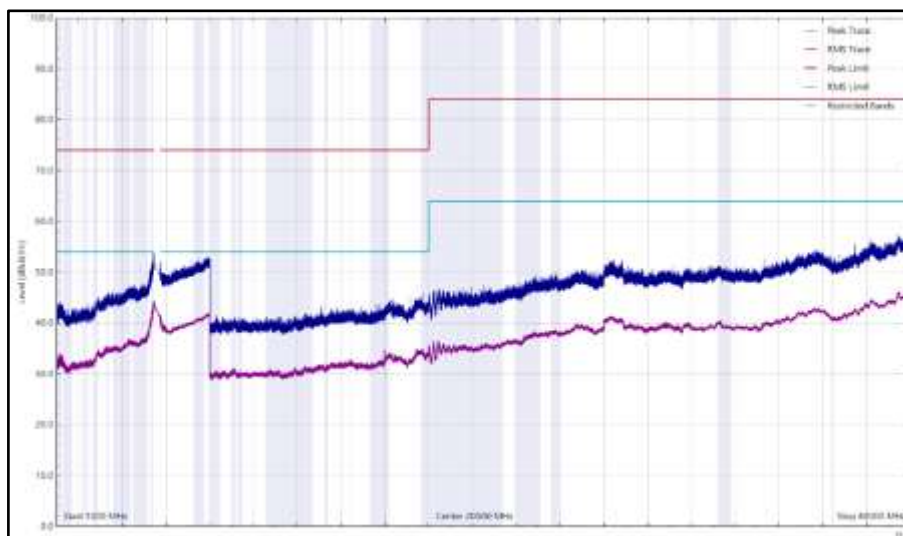


Figure 1053 - U-NII-2C - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

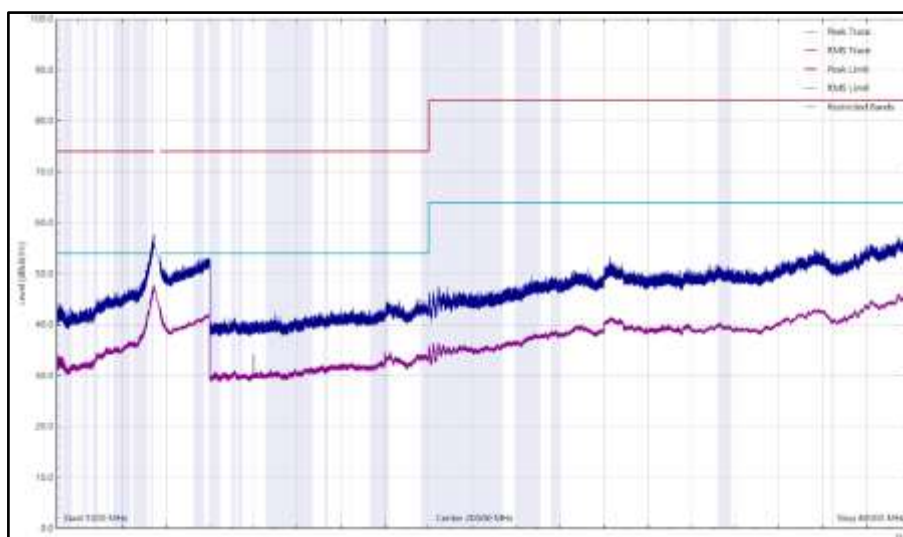


Figure 1054 - U-NII-2C - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 670 - U-NII-2C - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

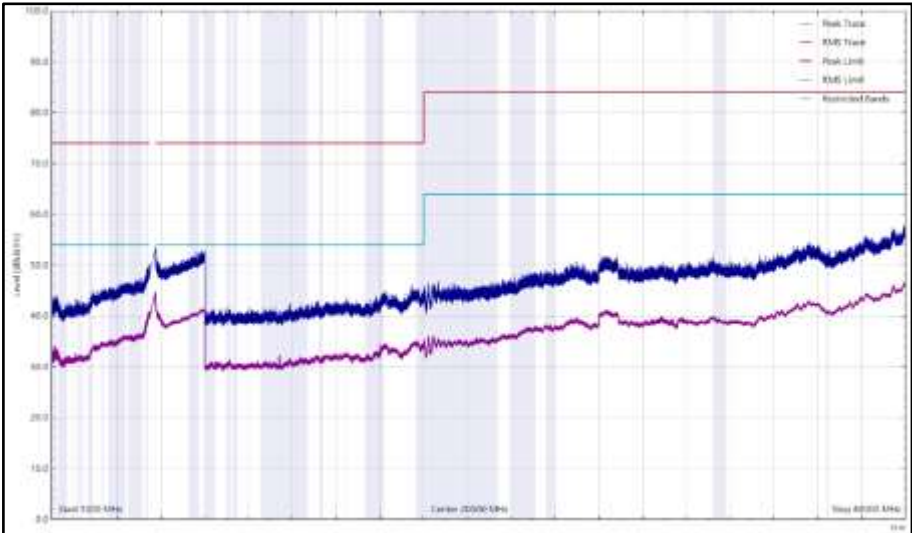


Figure 1055 - U-NII-2C - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

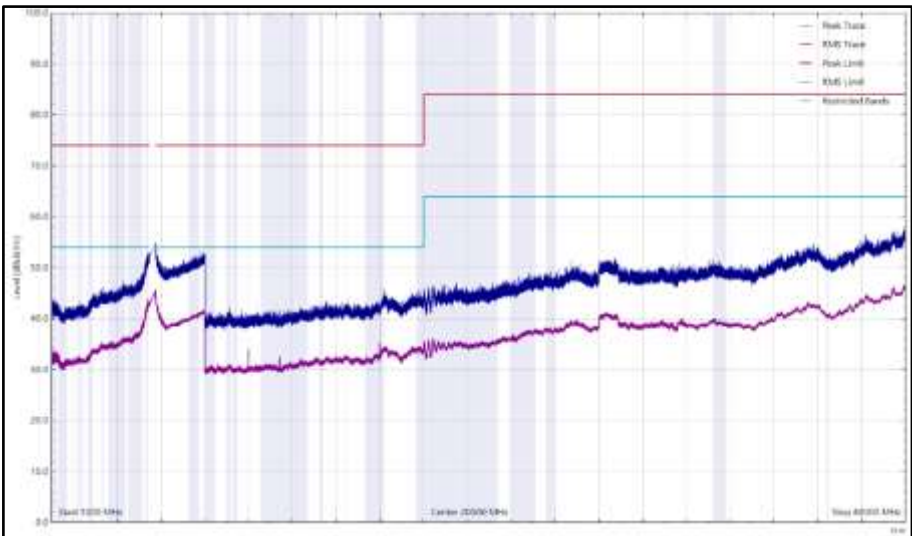


Figure 1056 - U-NII-2C - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 671 - U-NII-3 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

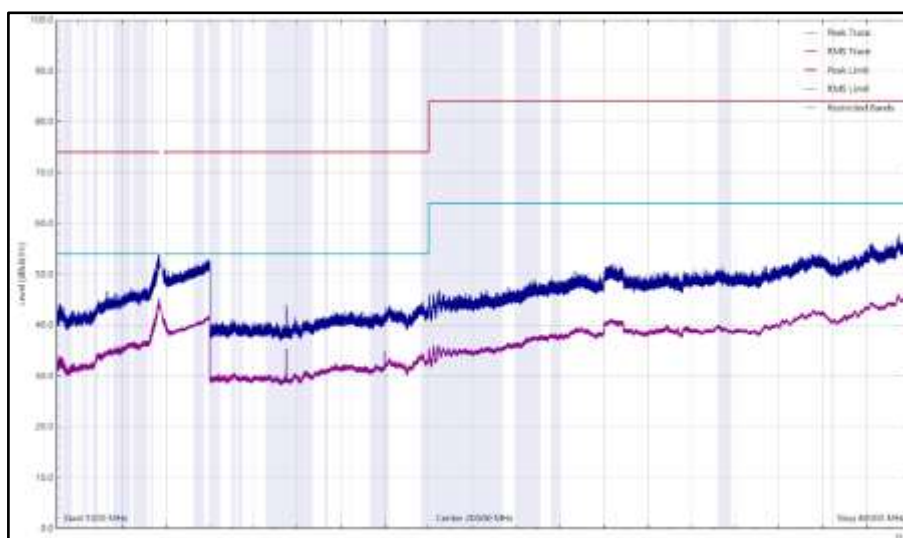


Figure 1057 - U-NII-3 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

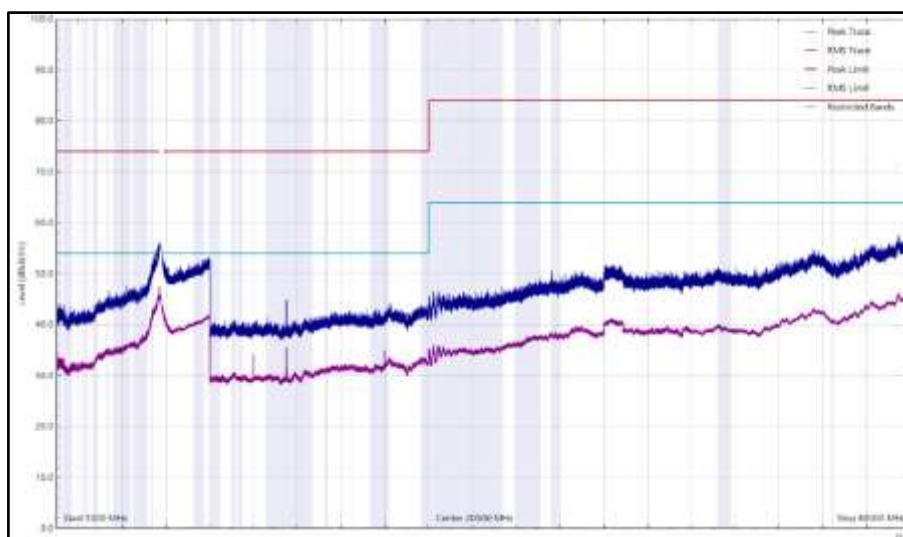


Figure 1058 - U-NII-3 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 11649.804 | 36.3 | 54.0 | -17.7 | RMS | 76 | 363 | Horizontal |
| 11649.860 | 35.9 | 54.0 | -18.1 | RMS | 241 | 105 | Vertical |
| 15983.982 | 34.6 | 54.0 | -19.4 | RMS | 85 | 400 | Horizontal |

Table 672 - U-NII-3 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 6 dB of the limit.

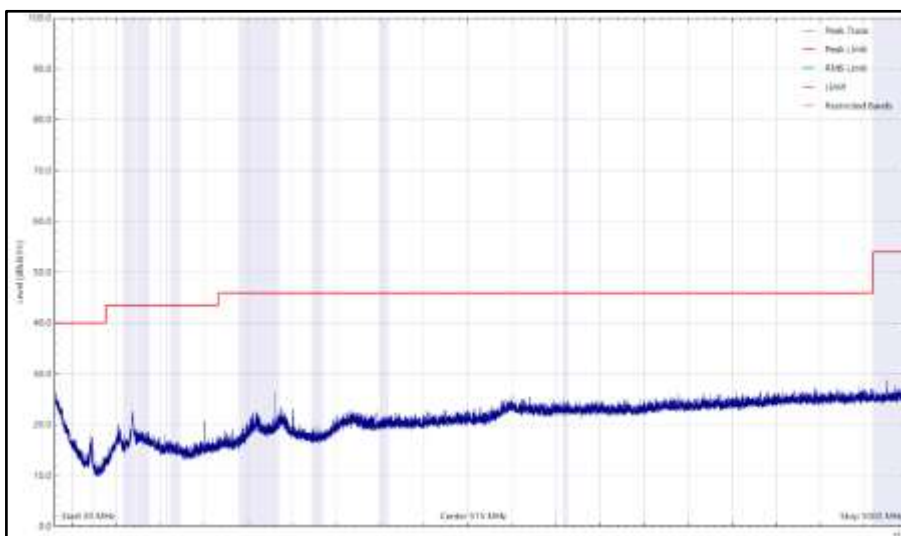


Figure 1059 - U-NII-3 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

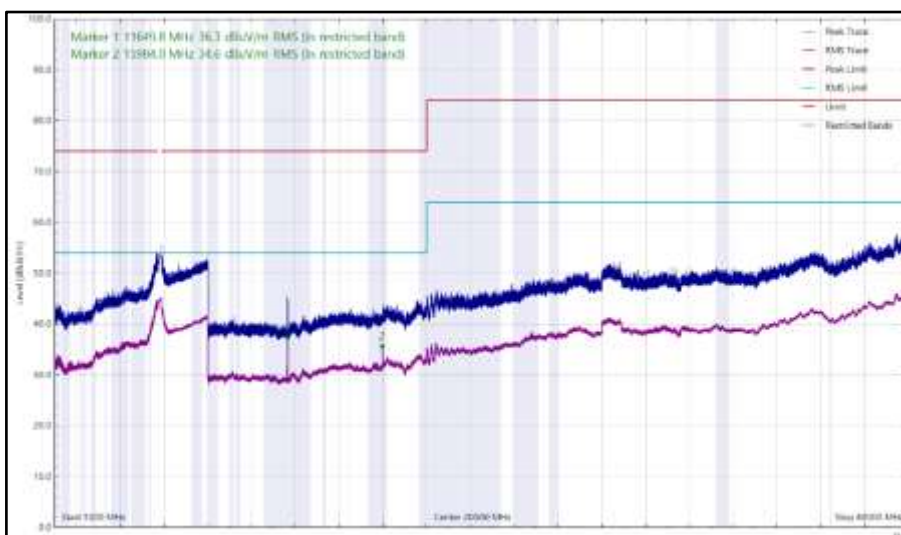


Figure 1060 - U-NII-3 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

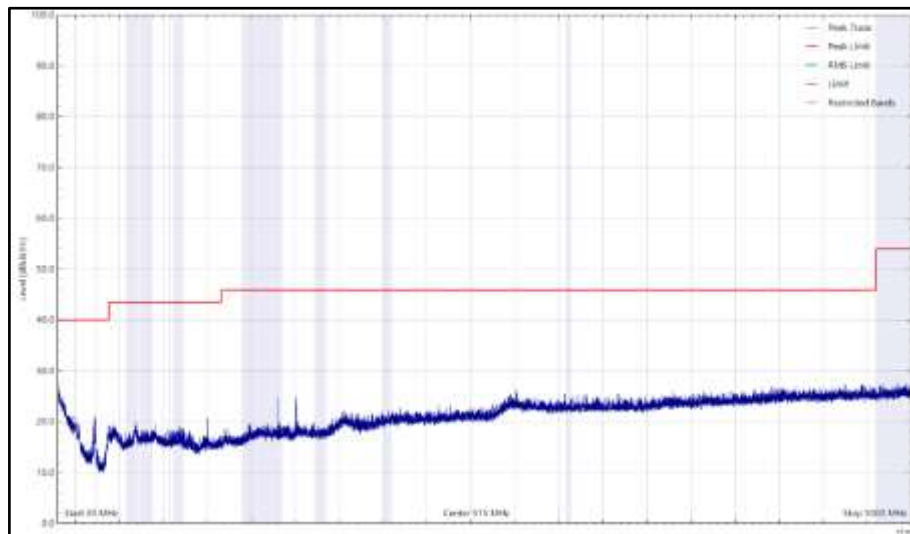


Figure 1061 - U-NII-3 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

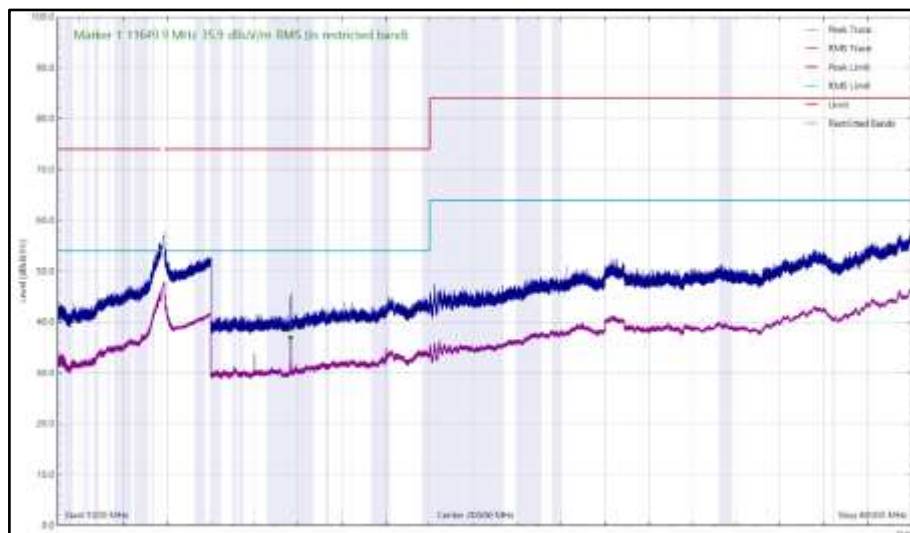


Figure 1062 - U-NII-3 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 673 - 5180 MHz (CH36), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 40 GHz

*No emissions found within 6 dB of the limit.

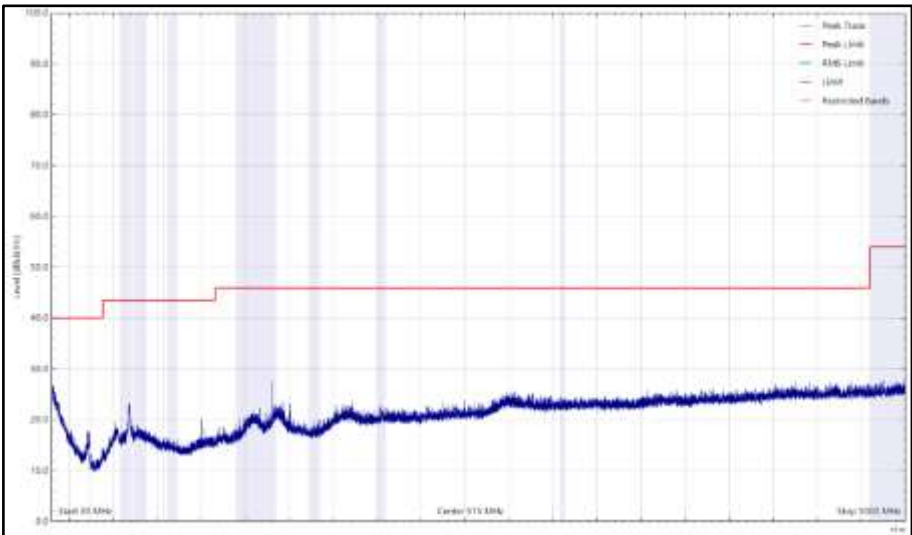


Figure 1063 - 5180 MHz (CH36), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

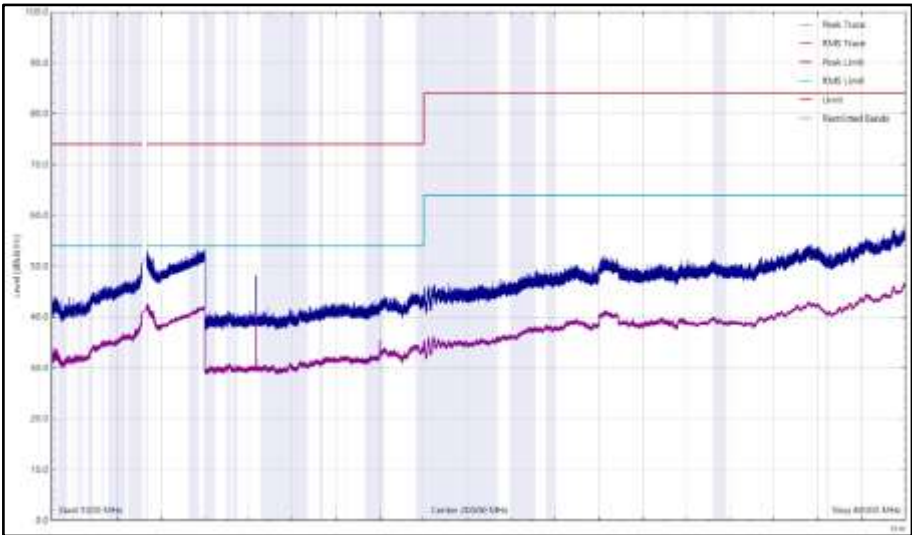


Figure 1064 - 5180 MHz (CH36), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

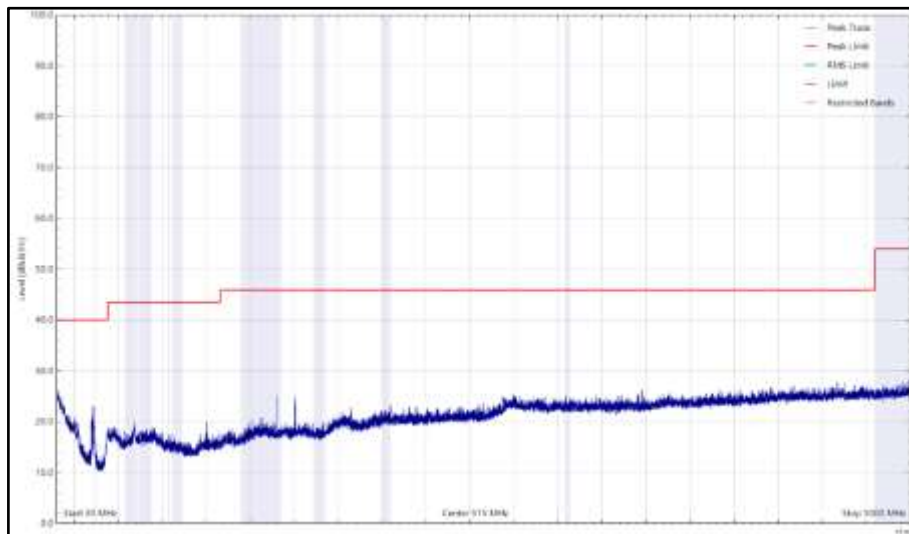


Figure 1065 - 5180 MHz (CH36), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

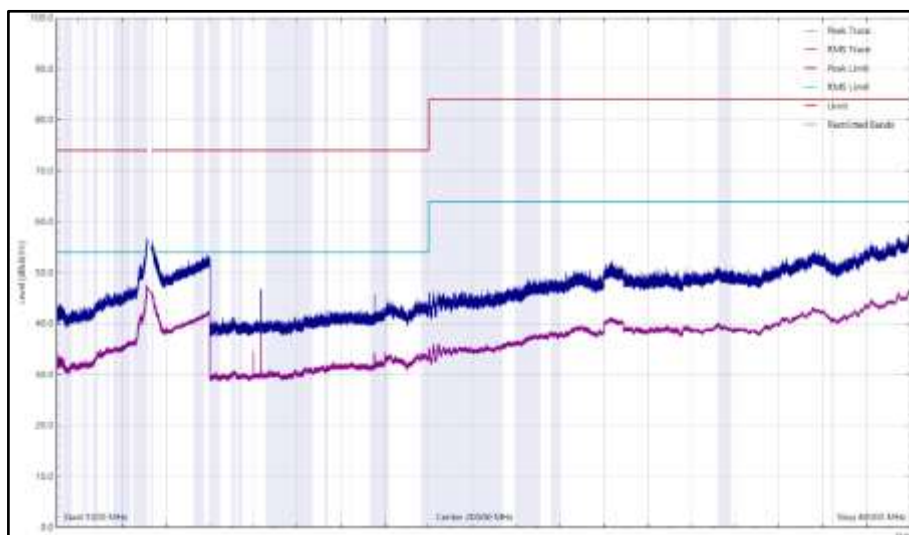


Figure 1066 - 5180 MHz (CH36), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 10624.583 | 35.1 | 54.0 | -18.9 | RMS | 302 | 237 | Vertical |
| 10626.801 | 34.4 | 54.0 | -19.6 | RMS | 272 | 397 | Horizontal |

Table 674 - 5320 MHz (CH64), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 6 dB of the limit.

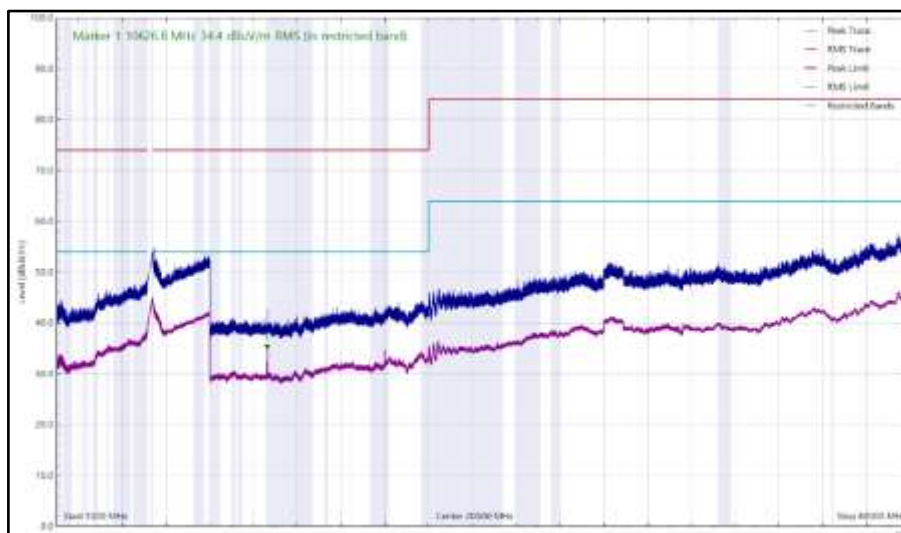


Figure 1067 - 5320 MHz (CH64), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

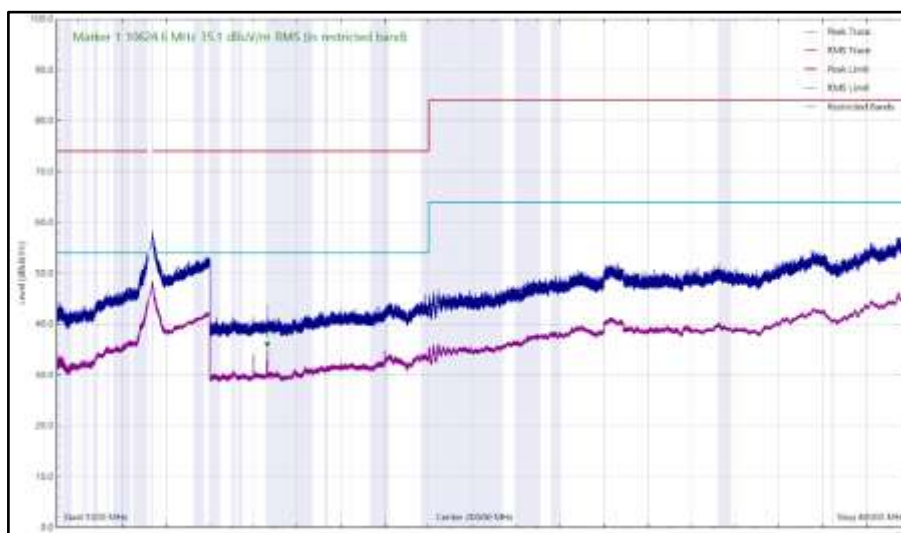


Figure 1068 - 5320 MHz (CH64), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 675 - 5500 MHz (CH100), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

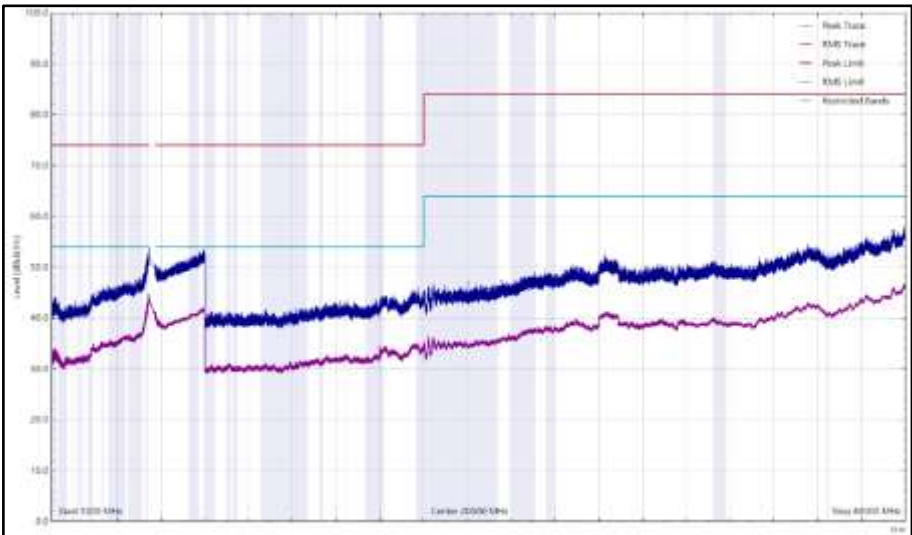


Figure 1069 - 5500 MHz (CH100), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

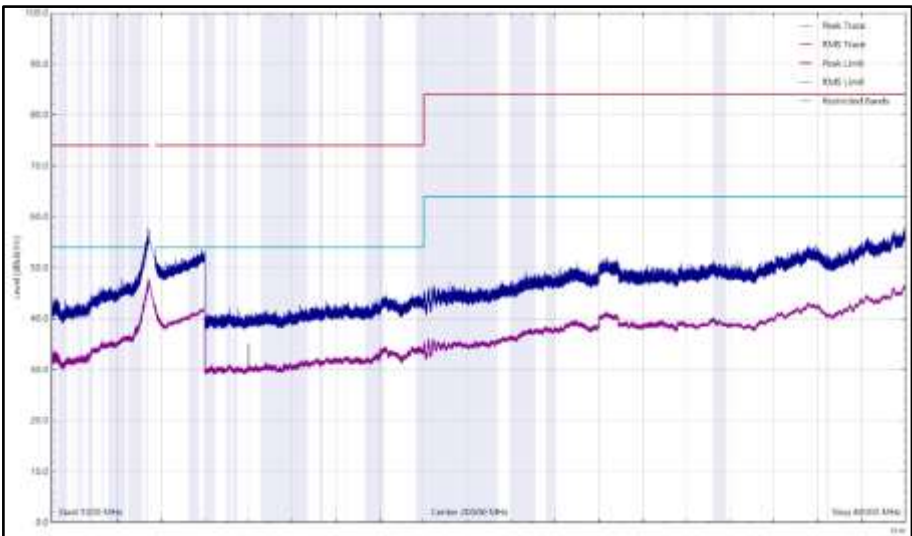


Figure 1070 - 5500 MHz (CH100), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| * | | | | | | | |

Table 676 - 5700 MHz (CH140), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 6 dB of the limit.

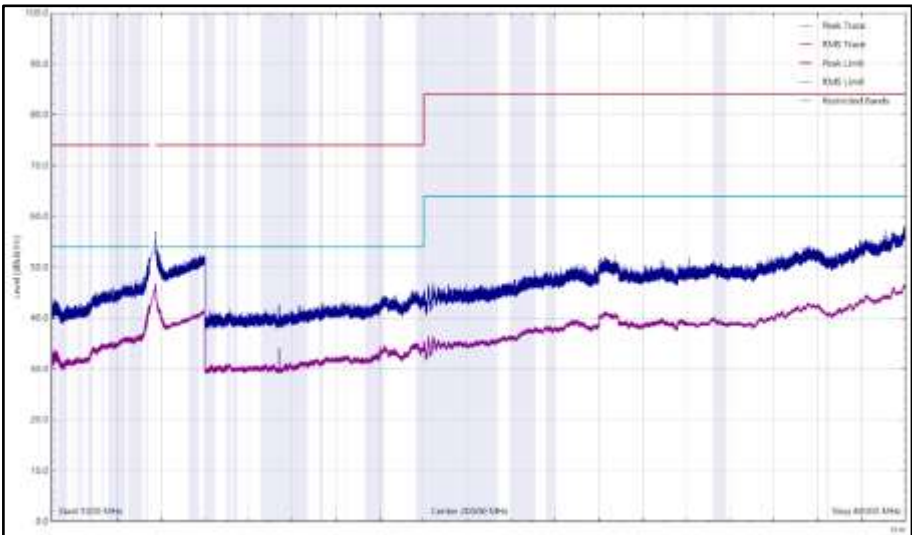


Figure 1071 - 5700 MHz (CH140), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

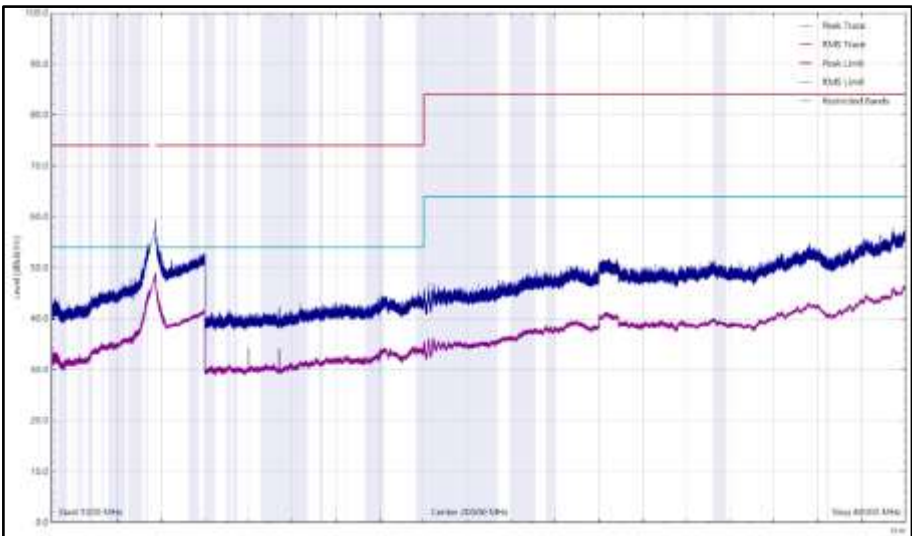


Figure 1072 - 5700 MHz (CH140), HE20, RU52-37, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 11472.432 | 53.0 | 74.0 | -21.0 | Peak | 282 | 386 | Horizontal |
| 11472.577 | 31.8 | 54.0 | -22.2 | RMS | 297 | 284 | Horizontal |
| 11472.647 | 39.2 | 54.0 | -14.9 | RMS | 239 | 143 | Vertical |

Table 677 - 5745 MHz (CH149), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 6 dB of the limit.

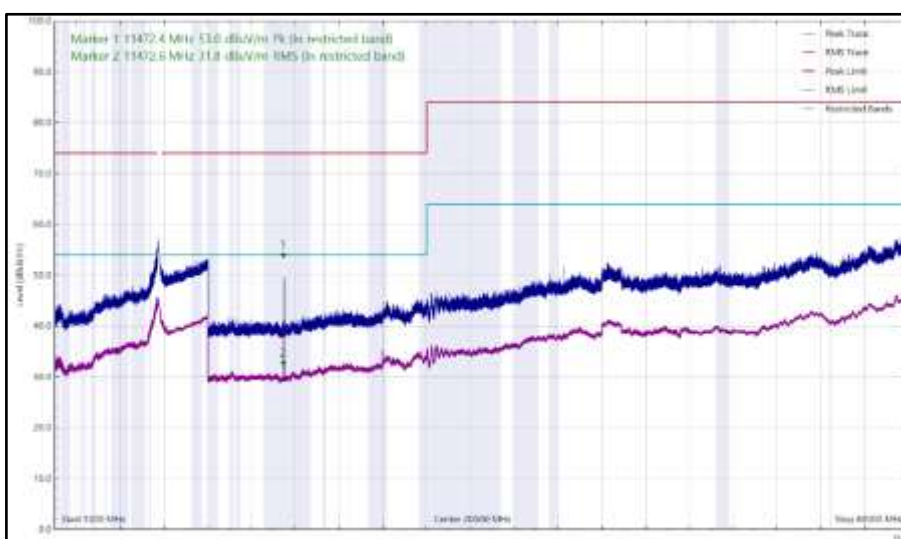


Figure 1073 - 5745 MHz (CH149), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

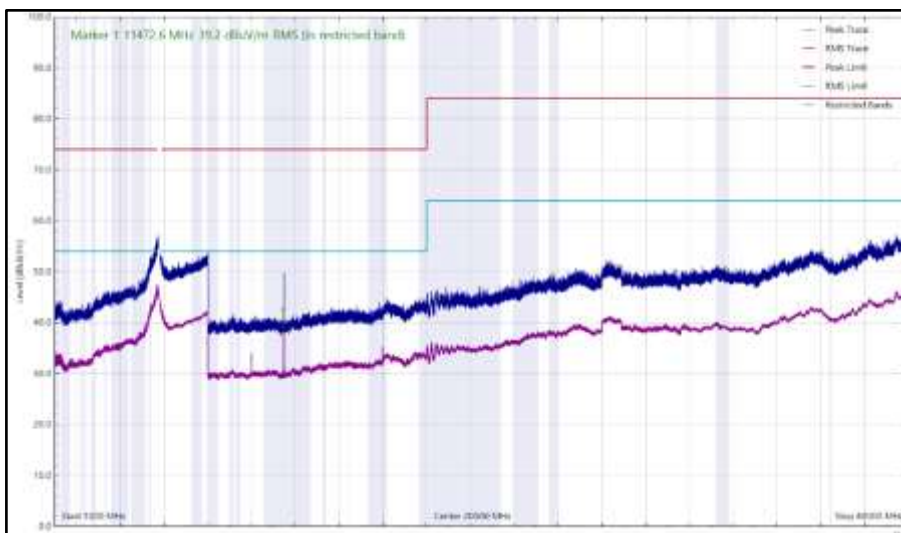


Figure 1074 - 5745 MHz (CH149), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

| Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| 11632.368 | 56.8 | 74.0 | -17.2 | Peak | 283 | 380 | Horizontal |
| 11632.475 | 45.5 | 54.0 | -8.5 | RMS | 303 | 251 | Vertical |
| 11632.563 | 44.3 | 54.0 | -9.7 | RMS | 258 | 391 | Horizontal |

Table 678 - 5825 MHz (CH165), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 6 dB of the limit.

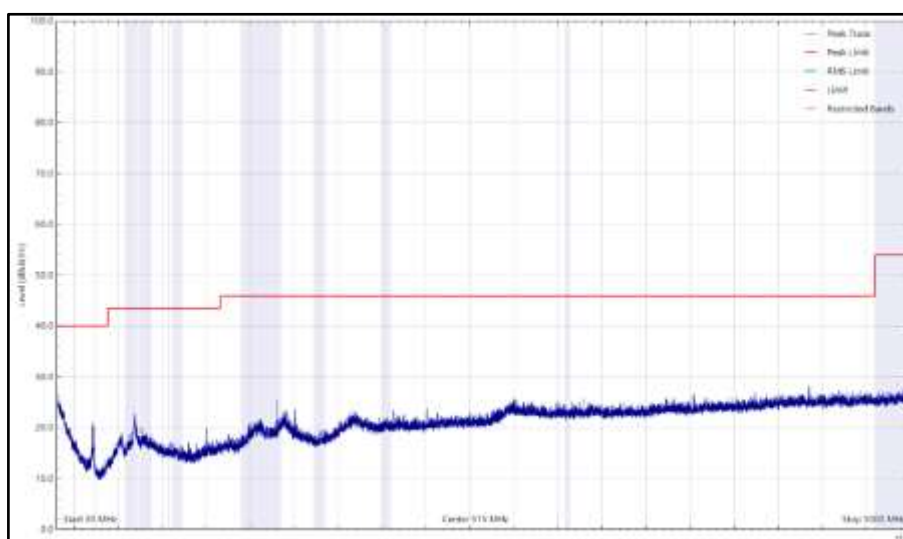


Figure 1075 - 5825 MHz (CH165), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal

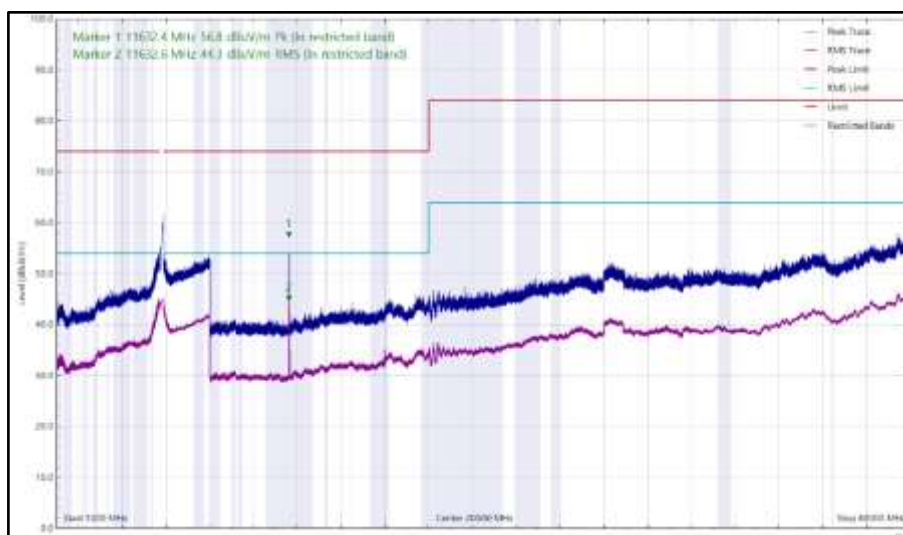


Figure 1076 - 5825 MHz (CH165), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

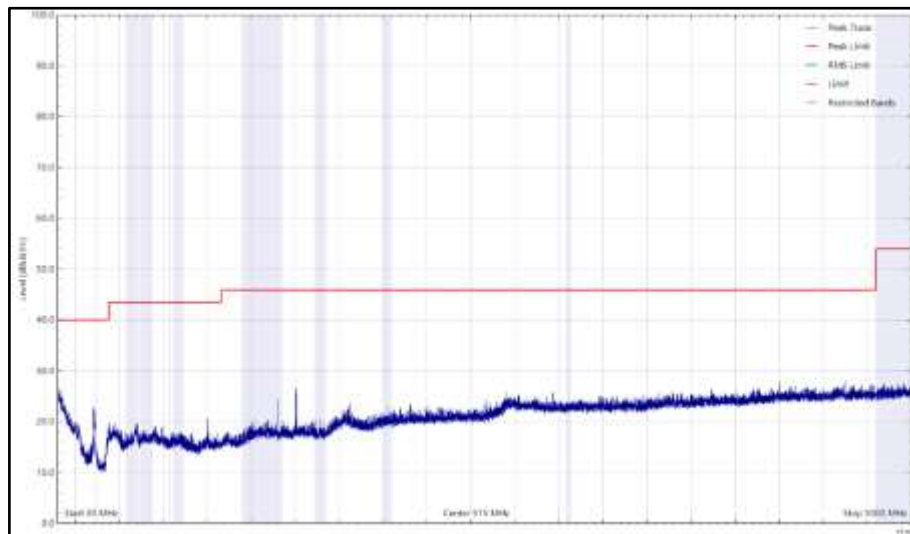


Figure 1077 - 5825 MHz (CH165), HE20, RU26-0, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical

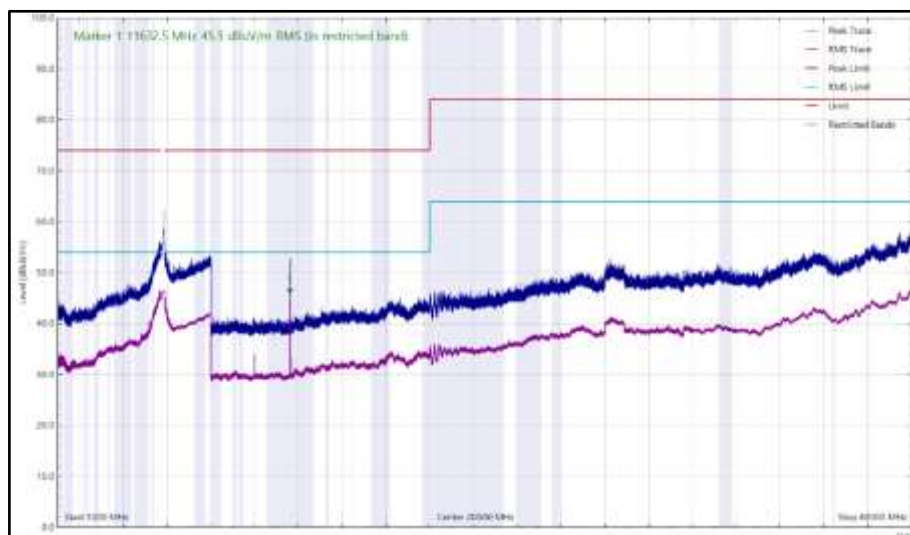


Figure 1078 - 5825 MHz (CH165), HE20, RU26-0, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



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: ≤ -27 dBm/MHz outside 5150-5350 MHz.

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

For transmitters operating in the 5.47-5.725 GHz band: ≤ -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 (μ V/m) at 3m | Field Strength Limit (dB μ 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 679 - 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:

- 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;
- 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;
- 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
- 27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.



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

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) at 3m | Field Strength Limit ($\text{dB}\mu\text{V/m}$) 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 680 - Radiated Emissions Limit Table (ISED)

2.6.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 11.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|---|----------------------|----------------------------------|-------|-----------------------------|---------------------|
| Antenna with permanent attenuator (Bilog) | Schaffner | CBL6143 | 287 | 12 | 14-Oct-2022 |
| Programmable Power Supply | Iso-tech | IPS 2010 | 2437 | - | O/P Mon |
| True RMS Multimeter | Fluke | 179 | 4007 | 12 | 29-Oct-2021 |
| Band Reject Filter - 5.795GHz | Wainwright | WRCJV10-5725-5755-5835-5865-50SS | 5070 | 12 | 30-Sep-2021 |
| Band Reject Filter - 5.22 GHz | Wainwright | WRCJV12-5120-5150-5290-5320-50SS | 5072 | 12 | 02-Oct-2021 |
| Band Reject Filter - 5.775 GHz | Wainwright | WRCJV10-5700-5735-5815-5850-50SS | 5076 | 12 | 12-Oct-2021 |
| Band Reject Filter - 5.690 GHz | Wainwright | WRCJV8-5635-5670-5710-5745-50SS | 5080 | 12 | 02-Oct-2021 |
| EMI Test Receiver | Rohde & Schwarz | ESW44 | 5084 | 12 | 08-Mar-2022 |
| Cable (18 GHz) | Rosenberger | LU7-071-1000 | 5102 | 12 | 12-Oct-2021 |
| Cable (18 GHz) | Rosenberger | LU7-071-1000 | 5103 | 12 | 12-Oct-2021 |
| EmX Emissions Software | TUV SUD | V2.1.11 | 5125 | - | Software |
| Screened Room (11) | Rainford | Rainford | 5136 | 36 | 01-Nov-2021 |
| Mast and Turntable Controller | Maturo | Maturo NCD | 5159 | - | TU |
| Turntable | Maturo | TT 15WF | 5160 | - | TU |
| Horn Antenna (1-10GHz) | Schwarzbeck | BBHA 9120 B | 5215 | 12 | 01-Apr-2022 |
| DRG Horn Antenna (7.5-18GHz) | Schwarzbeck | HWRD750 | 5216 | 12 | 01-Apr-2022 |
| Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | 5217 | 12 | 14-Oct-2021 |
| Preamplifier (30dB 18-40GHz) | Schwarzbeck | BBV 9721 | 5218 | 12 | 14-Oct-2021 |
| Preamp 1 - 26.5 GHz | Agilent Technologies | 8449B | 5445 | 12 | 06-May-2022 |



| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------|---------------------|----------------------------------|-------|-----------------------------|---------------------|
| 2m SMA Cable | Junkosha | MWX221-02000AMSAMS/A | 5518 | 12 | 09-Apr-2022 |
| 8m N Type Cable | Junkosha | MWX221-08000NMSNMS/B | 5522 | 12 | 24-Mar-2022 |
| 2m K Type Cable | Junkosha | MWX241-02000KMSKMS/A | 5524 | 12 | 24-Mar-2022 |
| 7 GHz High pass Filter | Wainwright | WHKX12-5850-6800-18000-80SS | 5550 | 12 | 20-May-2022 |
| Band Reject Filter - 5.57 GHz | Wainwright | WRCJV10-5440-5490-5650-5700-50SS | 5556 | 12 | 07-May-2022 |
| 1200 MHz Low Pass Filter (02) | Mini-Circuits | VLF-1200+ | 5560 | 12 | 24-May-2022 |
| 8 - 18 GHz Amplifier | Wright Technologies | APS06-0061 | 5595 | 12 | 25-Aug-2021 |
| Thermo-Hygro-Barometer | PCE Instruments | PCE-THB 40 | 5604 | 12 | 08-Sep-2021 |

Table 681

TU - Traceability Unscheduled
O/P Mon – Output Monitored using calibrated equipment



2.7 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

2.7.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (h)(2)(iii)(iv)
ISED RSS-247, Clause 6.3.2(c)(d)(e)

2.7.2 Equipment Under Test and Modification State

A2485, S/N: C02DX02Q03G7 - Modification State 0

2.7.3 Date of Test

16-August-2021 to 31-August-2021

2.7.4 Test Method

This test was performed in accordance with FCC KDB 905462 D02, clause 7.8.3.

The EUT was a Client Device without Radar Detection.

A computer was connected via an Ethernet cable to the Master device and a video file was streamed from the Client device to another Client device ensuring the Channel Loading was >17%.

Radar Pulse Type 0 was then transmitted, and the Spectrum monitored. The transmissions from the UUT were observed for a period of 12 seconds after the final injected Radar Pulse.

It was checked that all transmissions stopped within the 10 second period defined from the point of the end of the final Radar pulse + 10 seconds. In addition, the aggregate on time during the first 200ms and the following 9.8 seconds of the Channel Move Time was computed by the Aeroflex DFS Software.

The markers on the trace data correspond to the following time periods:

Red - End of Radar Burst, (T0)
Purple - End of 200ms Period, (T0 + 200 ms)
Orange - End of Channel Move Time, (T0 + 10 seconds)

To verify the non-occupancy period, the PXI digitiser was replaced with a Spectrum Analyser. The external trigger from the Aeroflex DFS test system was used to trigger a 30-minute sweep from the moment the radar burst sequence was injected. It was verified that no transmissions occurred on the test channel during this time period.

2.7.5 Environmental Conditions

| | |
|---------------------|----------------|
| Ambient Temperature | 22.0 - 22.9 °C |
| Relative Humidity | 46.7 - 57.2 % |

2.7.6 Test Results

5 GHz WLAN - Master to Client

802.11ac VHT80

The equipment was set up as shown in the diagram below. The EUT was configured to run iPerf, transmitting UDP to the client laptop. The channel loading was set to >17% by adjusting the bandwidth specified in the iPerf UDP transfer.

To calibrate the level of the radar at the input to the DFS Master, the DFS Master was replaced by the spectrum analyser and the output of the PXI RF generator adjusted to give -62 dBm + 1dB.

| Radar Type | Pulse Width (µs) | PRI (µs) | Number of Pulses |
|------------|------------------|----------|------------------|
| 0 | 1 | 1428 | 18 |

Table 682 - Radar Pulse Type 0 Characteristics

| Manufacturer | Model | Serial Number | FCC ID |
|-------------------------|------------------------------------|---------------|---------|
| TP-Link Technologies Co | AX3000 Gigabit Wi-Fi 6 Router AX50 | 22151C8002486 | TE7AX50 |

Table 683 - Details of Master Device used to support testing

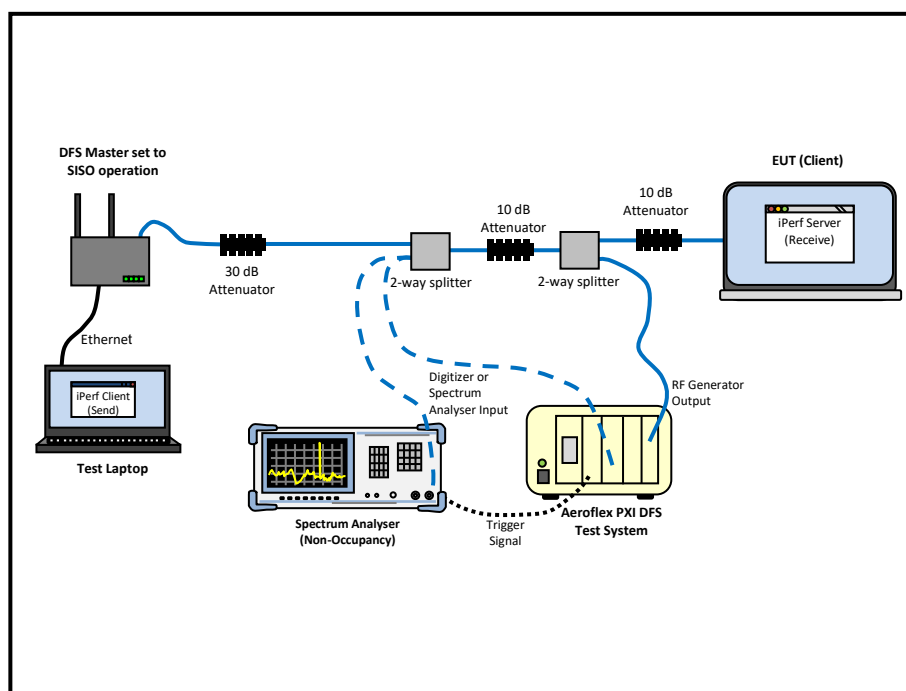


Figure 1079 - Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master



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| | |
|--|-----------------------|
| Maximum Transmit Power | Value (Notes 1 and 2) |
| ≥ 200 milliwatt | -64 dBm |
| < 200 milliwatt | -62 dBm |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. | |
| Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. | |

Table 684 - DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| | |
|---|--|
| Test Parameter | Result |
| Test Channel | CH106 (5530 MHz), Control CH100 (5500 MHz) |
| Channel Move Time | 0.283 s |
| Channel Closing Time (Aggregate Time During 200 ms) | 7.054 ms |
| Channel Closing Time (Aggregate Time During 200 ms to 10 s) | 0.113 ms |
| Channel Closing Time (Aggregate Time During 10 s) | 7.167 ms |
| Transmission Observed During Non-Occupancy Period | 0 |

Table 685 - In-Service Monitoring Test Results

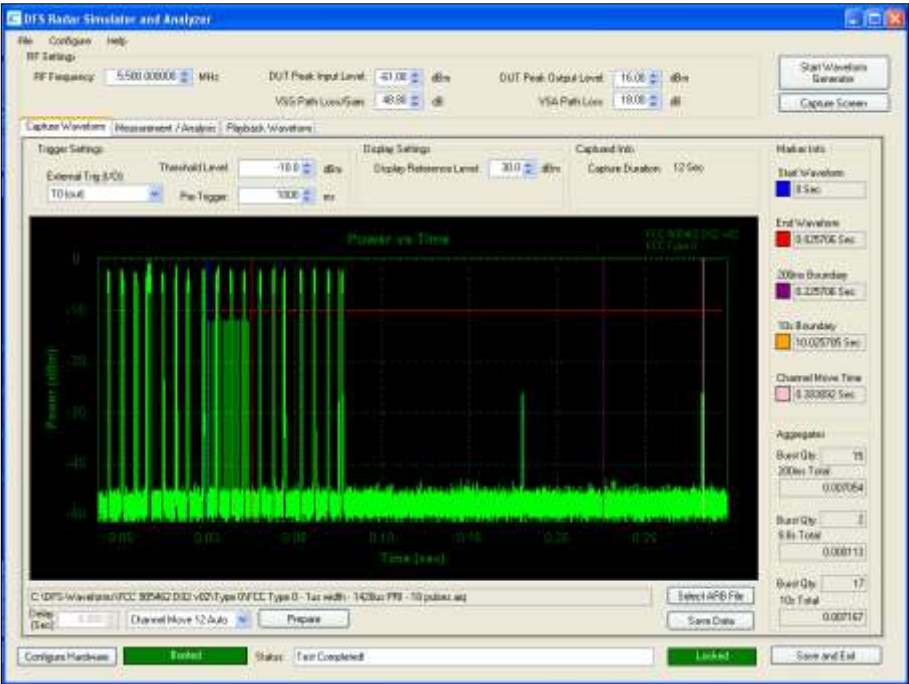


Figure 1082 - First 200 ms of Channel Shutdown Period

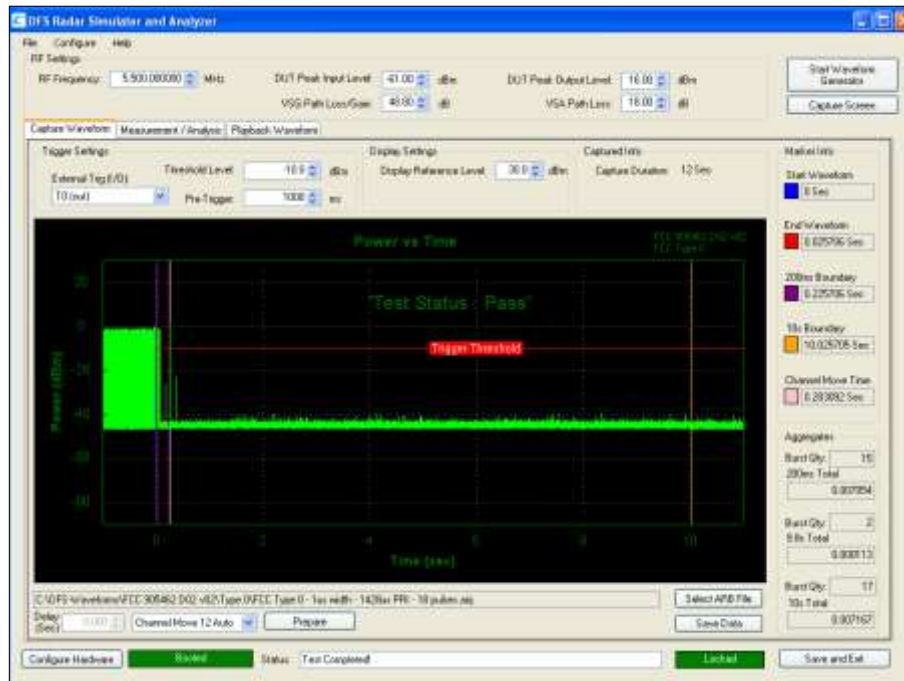


Figure 1083 - First 12 s of Channel Shutdown Period

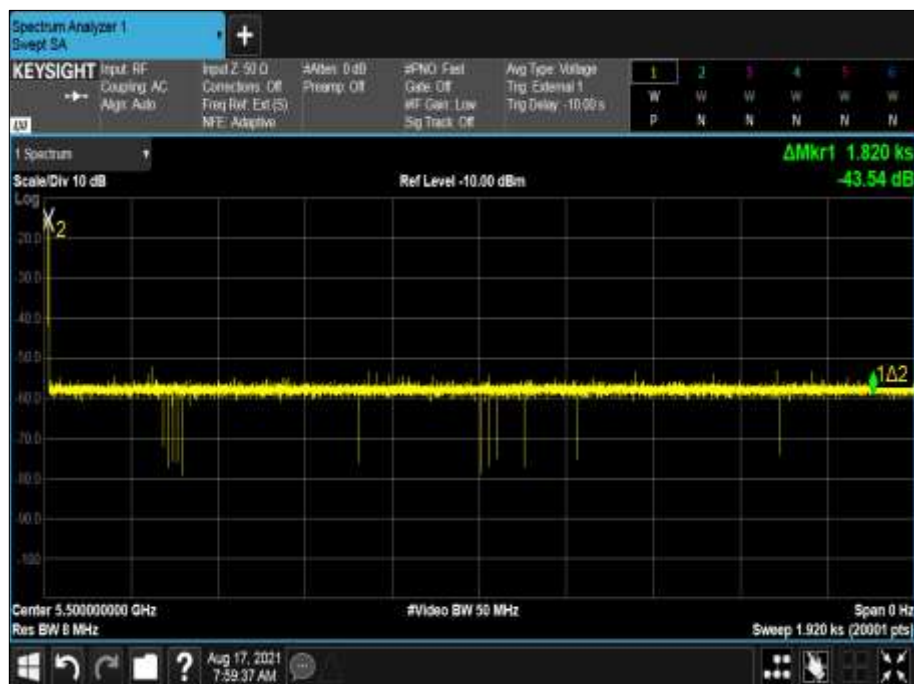


Figure 1084 - 30 minute Non-Occupancy Period

5 GHz WLAN - Client to Client

802.11ac VHT80

The EUT could operate a direct client-to-client mode and so this was also tested as required by KDB 905462 D03 v01r02 clause (b)3.

The equipment was set up as shown in the diagram below. The EUT was configured to screencast its display (showing video playback), directly to the Apple TV box using the AirPlay transfer protocol. A spectrum analyser was used to measure the channel loading was >17 %. It was also used to verify the EUT mode of operation was correctly transmitting directly to the other client, with the DFS Master only doing occasional signalling and not re-transmitting the data.

To calibrate the level of the radar at the input to the DFS Master, the DFS Master was replaced by the spectrum analyser and the output of the PXI RF generator adjusted to give -61 dBm + 1 dB.

| Radar Type | Pulse Width (µs) | PRI (µs) | Number of Pulses |
|------------|------------------|----------|------------------|
| 0 | 1 | 1428 | 18 |

Table 686 - Radar Pulse Type 0 Characteristics

| Manufacturer | Model | Serial Number | FCC ID |
|--------------|----------|---------------|-------------|
| ASUS | RT-AC68U | GAIU0H002628 | MSQ-RTAC68U |

Table 687 - Details of Master Device used to support testing

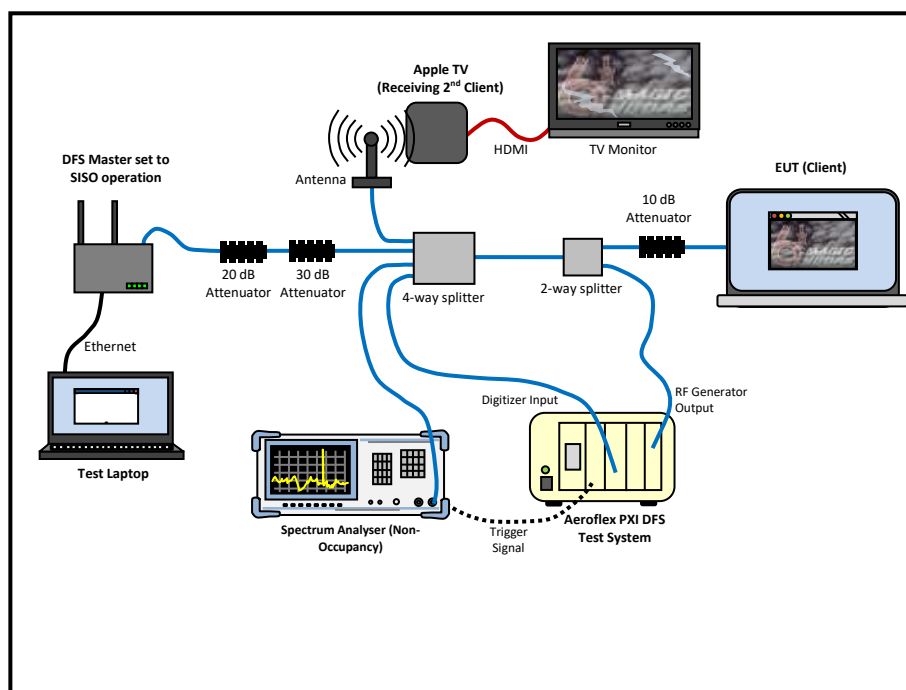


Figure 1085 - Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master

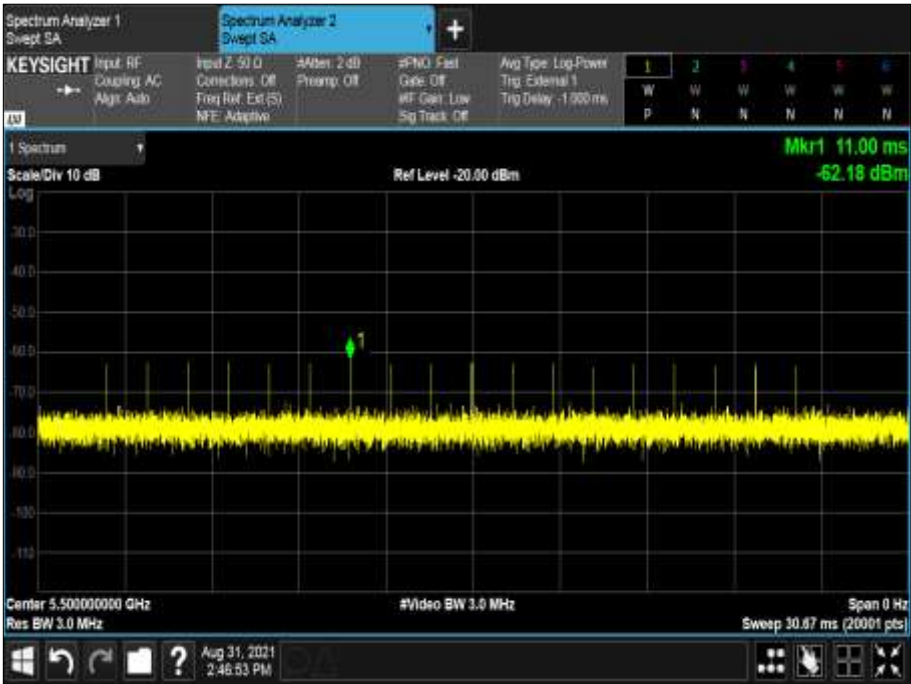


Figure 1086 - Verification of Radar Type 0

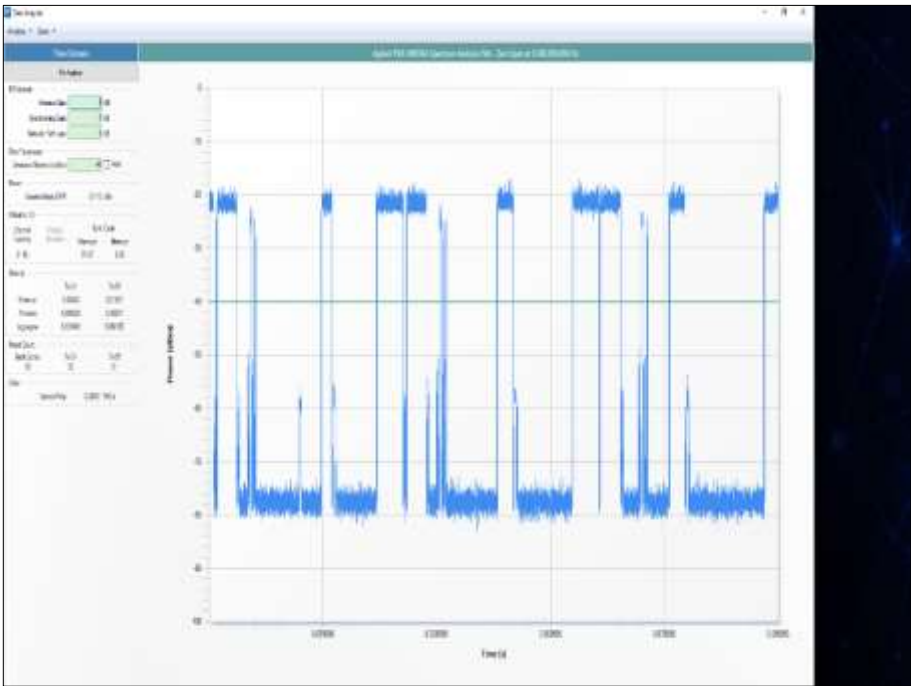


Figure 1087 - Channel Loading

The channel loading was 31.85 %



| | |
|--|-----------------------|
| Maximum Transmit Power | Value (Notes 1 and 2) |
| ≥ 200 milliwatt | -64 dBm |
| < 200 milliwatt | -62 dBm |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. | |
| Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. | |

Table 688 - DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| | |
|---|--|
| Test Parameter | Result |
| Test Channel | CH106 (5530 MHz), Control CH100 (5500 MHz) |
| Channel Move Time | 0.125 s |
| Channel Closing Time (Aggregate Time During 200 ms) | 58.806 ms |
| Channel Closing Time (Aggregate Time During 200 ms to 10 s) | 0 ms |
| Channel Closing Time (Aggregate Time During 10 s) | 58.806 ms |
| Transmission Observed During Non-Occupancy Period | 0 |

Table 689 - In-Service Monitoring Test Results

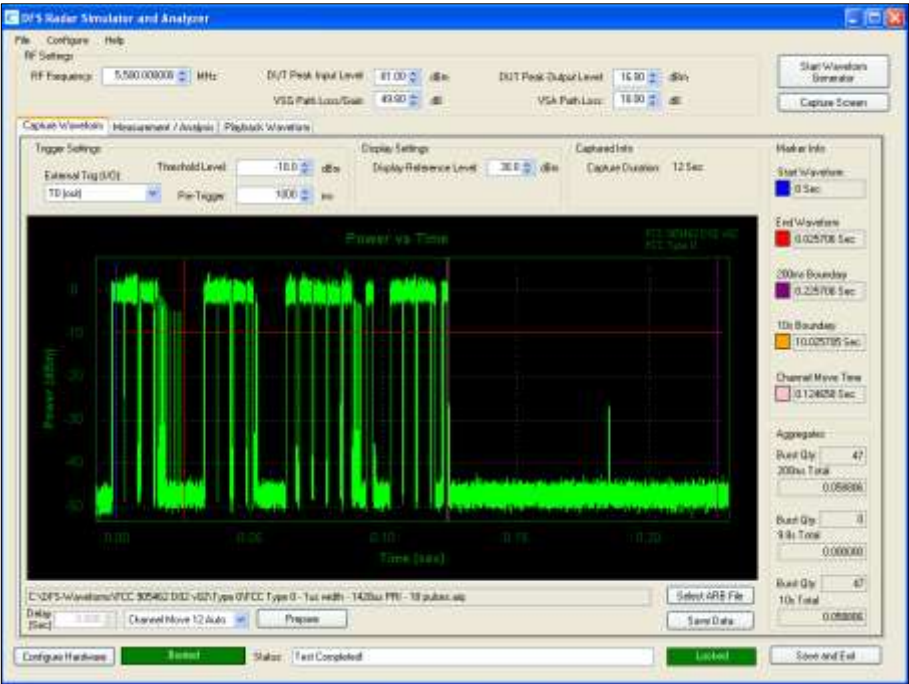


Figure 1088 - First 200 ms of Channel Shutdown Period

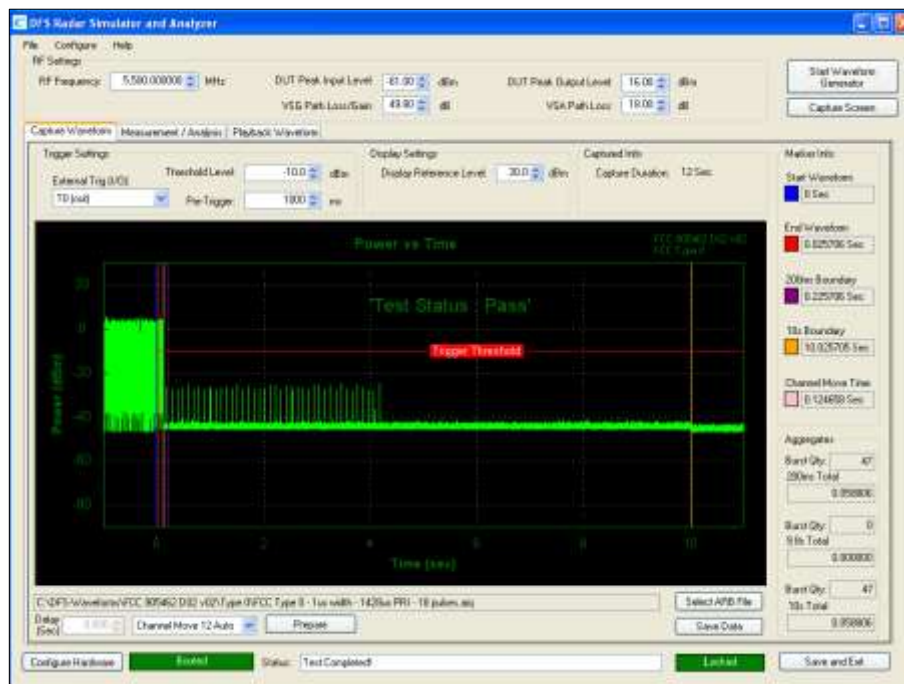


Figure 1089 - First 12 s of Channel Shutdown Period

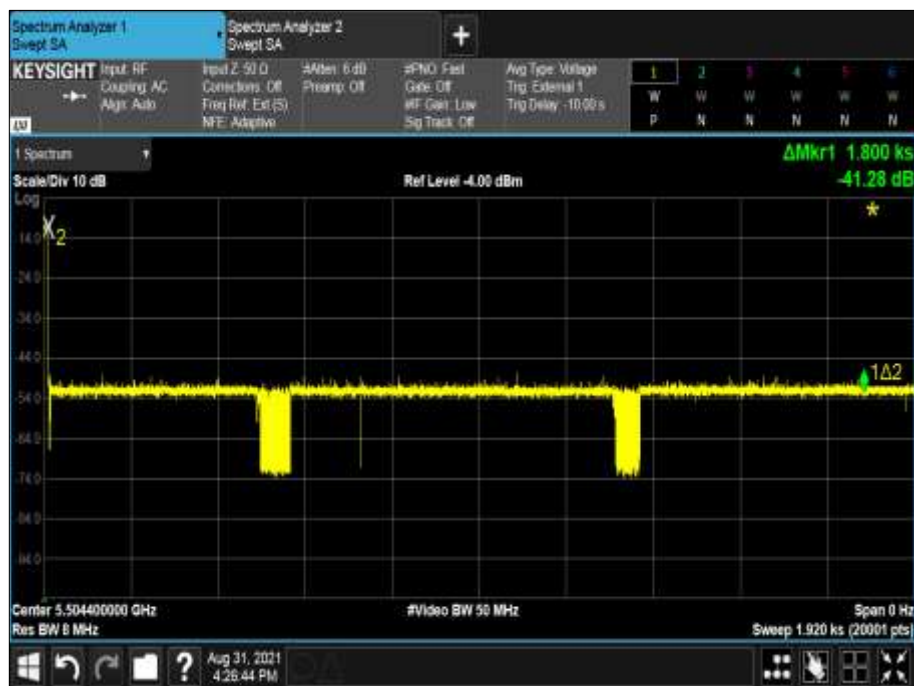


Figure 1090 - 30 minute Non-Occupancy Period



FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iii)

| | |
|---|-------------|
| Channel Move Time | <10 seconds |
| Channel Closing Time (Aggregate Time During 200ms) | <200 ms |
| Channel Closing Time (Aggregate Time During +200ms to 10s) | <60 ms |

Table 690 - Channel Move Time and Channel Closing Transmission Time Limit

FCC 47 CFR Part 15, Limit Clause 15.407 (h)(2)(iv)

| | |
|----------------------|--------------|
| Non-occupancy Period | > 30 minutes |
|----------------------|--------------|

Table 691 - Non-Occupancy Limit

ISED RSS-247, Limit Clause 6.3.2

Devices shall comply with the following requirements, however, the requirement for in-service monitoring does not apply to slave devices without radar detection.

In-service monitoring: an LE-LAN device shall be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.

Channel availability check time: the device shall check whether there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in Section 6.3.1 above is detected within 60 seconds. This requirement only applies in the master operational mode.

Channel move time: after a radar signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds.

Channel closing transmission time: is comprised of 200 ms starting at the beginning of the channel move time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 ms) over the remaining 10-second period of the channel move time.

Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected



2.7.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|--|-----------------------|---------------------------|-------|-----------------------------|---------------------|
| Attenuator (10dB, 1W) | Sealectro | 60-674-1010-89 | 1224 | - | O/P Mon |
| Rubidium Standard | Rohde & Schwarz | XSRM | 1316 | 6 | 03-Dec-2021 |
| Hygrometer | Rotronic | I-1000 | 3220 | 12 | 16-Oct-2021 |
| PXI RF Digitizer | Aeroflex | 3035 | 4012 | 24 | 12-Nov-2022 |
| PXI RF Synthesizer | Aeroflex | 3010 | 4013 | 24 | 12-Nov-2022 |
| PXI RF Synthesizer | Aeroflex | 3011 | 4014 | 24 | 12-Nov-2022 |
| PXI Digital RF Signal Generator | Aeroflex | 3025 | 4015 | 24 | 12-Nov-2022 |
| Frequency Standard | Spectracom | SecureSync 1200-0408-0601 | 4393 | 6 | 03-Dec-2021 |
| Wireless Cable & Fibre Router - AC 1900, Dual-band | Asus | RT-AC68U | 4881 | - | TU |
| EXA | Keysight Technologies | N9010B | 4968 | 24 | 23-Dec-2021 |
| Cable (40 GHz) | Rosenberger | LU1-001-2000 | 5024 | - | O/P Mon |
| Power Splitter, 4 way | Mini-Circuits | ZN4PD1-63-S+ | 5236 | - | O/P Mon |
| Power Splitter, 2 way | Mini-Circuits | ZN2PD2-63-S+ | 5238 | - | O/P Mon |
| Power Splitter, 2 way | Mini-Circuits | ZN2PD2-63-S+ | 5239 | - | O/P Mon |
| Cable 2.92m | Junkosha | MWX241/B | 5411 | 12 | 23-Jun-2022 |
| Cable 2.92m | Junkosha | MWX241-01000KMS | 5413 | 12 | 23-Jul-2022 |
| Cable 2.92mm 1m | Junkosha | MWX241-01000KMS | 5414 | 12 | 23-Jun-2022 |
| 2.92mm 1m cable | Junkosha | MWX211/B | 5415 | 12 | 23-Jul-2022 |
| 3.5 mm 1m Cable | Junkosha | MWX221-01000DMS | 5416 | 12 | 09-Jul-2022 |
| 3.5 mm 1m Cable | Junkosha | MWX221-01000DMS | 5417 | 12 | 23-Jun-2022 |
| 3.5 mm 2m Cable | Junkosha | MWX221-02000DMS | 5429 | 12 | 23-Jun-2022 |
| 10dB/5W Attenuator | Aaren | AT40A-404-D18-10 | 5486 | 12 | 14-Apr-2022 |
| Attenuator 5W 10dB DC-18GHz | Aaren | AT40A-4041-D18-10 | 5493 | 12 | 14-Apr-2022 |
| Attenuator 5W 30dB DC-18GHz | Aaren | AT40A-4041-D18-30 | 5502 | 12 | 14-Apr-2022 |
| 2-Way Power Divider (2 to 8 GHz) | Aaren | AT30A-TE0208-2-AF | 5684 | 12 | 18-Dec-2021 |
| 2-Way Power Divider (2-8 GHz) | Aaren | AT30A-TE0208-2-AF | 5685 | 12 | 18-Dec-2021 |



| Instrument | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Expires |
|-------------------------------|--------------|-------------------|-------|-----------------------------|---------------------|
| 2-Way Power Divider (2-8 GHz) | Aaren | AT30A-TE0208-2-AF | 5687 | 12 | 18-Dec-2021 |
| 3.5mm Cable (1m) | Junkosha | MWX221/B | 5838 | 12 | 23-Jul-2022 |

Table 692

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 | ± 6.3 dB |
| Maximum Conducted Output Power | ± 3.2 dB |
| Maximum Conducted Power Spectral Density | ± 3.2 dB |
| Emission Bandwidth | ± 974.922 kHz |
| Authorised Band Edges | ± 6.3 dB |
| Spurious Radiated Emissions | 30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB |
| Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period | Time: ± 0.47 % Power: ± 1.29 dB |

Table 693

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.