Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5452.259	36.78	54.00	-17.22	RMS	274	315	Vertical
5459.506	42.51	54.00	-11.49	RMS	201	179	Horizontal
5589.024	56.17	68.20	-12.03	Peak	213	100	Horizontal
5604.957	53.96	68.20	-14.24	Peak	172	158	Vertical
5879.616	54.22	68.20	-13.98	Peak	174	148	Vertical
5891.383	56.00	68.20	-12.20	Peak	201	209	Horizontal
7607.324	42.02	54.00	-11.98	RMS	259	183	Vertical

Table 728 - 5745 MHz (CH149), 802.11a, Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

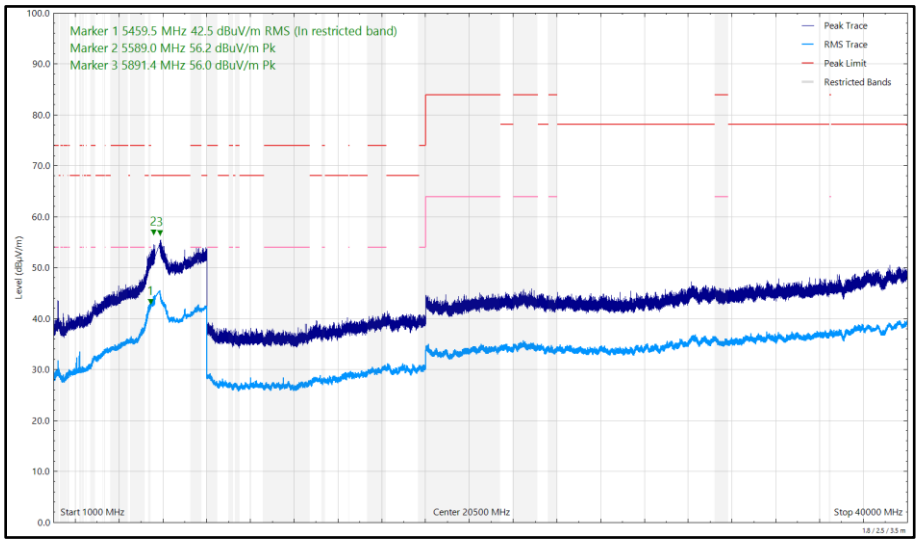

Figure 639 - 5745 MHz (CH149), 802.11a, Core 1, 1 GHz to 40 GHz, Horizontal

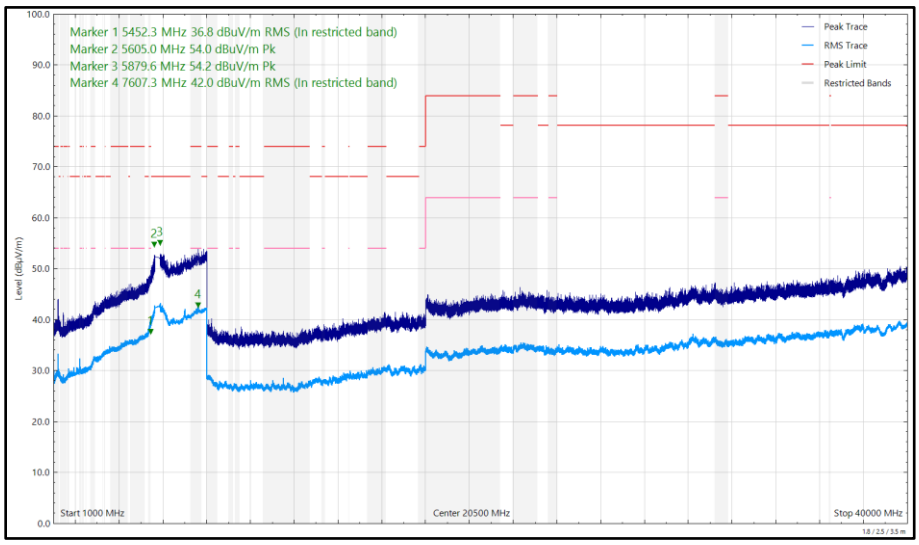

Figure 640 - 5745 MHz (CH149), 802.11a, Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5459.013	41.33	54.00	-12.67	RMS	191	244	Horizontal
5459.146	39.37	54.00	-14.63	RMS	191	151	Vertical
5615.872	52.68	68.20	-15.52	Peak	184	147	Vertical
5683.518	54.99	68.20	-13.21	Peak	250	187	Horizontal
5953.370	53.78	68.20	-14.42	Peak	184	131	Vertical
5956.909	56.06	68.20	-12.14	Peak	208	223	Horizontal

Table 729 - 5825 MHz (CH165), 802.11a, Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

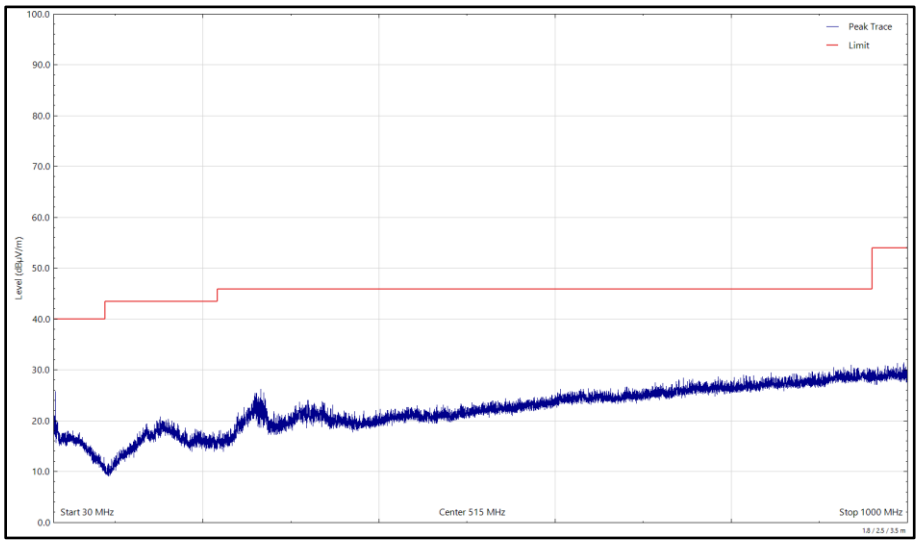

Figure 641 - 5825 MHz (CH165), 802.11a, Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

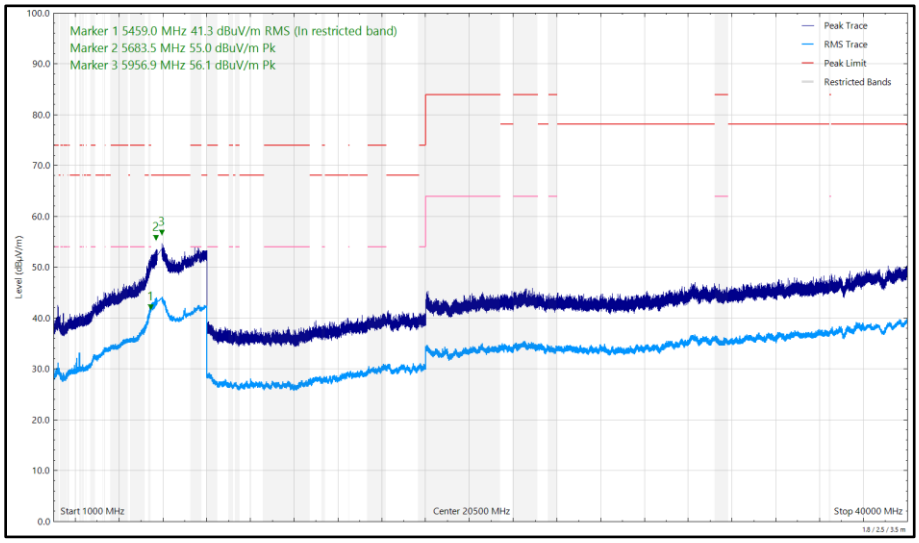

Figure 642 - 5825 MHz (CH165), 802.11a, Core 1, 1 GHz to 40 GHz, Horizontal

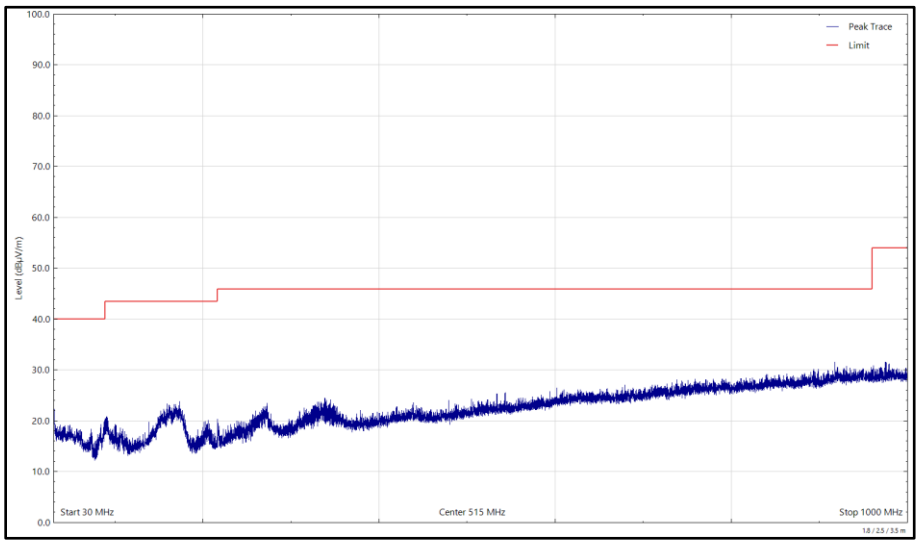

Figure 643 - 5825 MHz (CH165), 802.11a, Core 1, 30 MHz to 1 GHz, Vertical (Peak)

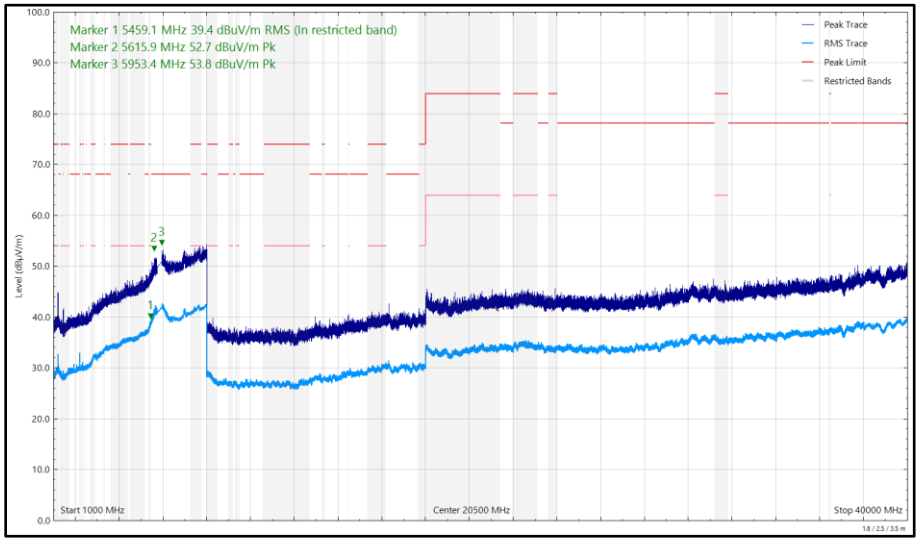

Figure 644 - 5825 MHz (CH165), 802.11a, Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5090.584	56.76	74.00	-17.24	Peak	177	128	Horizontal
5099.695	42.50	54.00	-11.50	RMS	25	100	Vertical
5109.681	44.80	54.00	-9.20	RMS	182	199	Horizontal
5350.411	43.98	54.00	-10.02	RMS	177	185	Horizontal
5373.784	56.14	74.00	-17.86	Peak	207	133	Horizontal
5408.721	43.24	54.00	-10.76	RMS	20	186	Vertical
5462.708	55.73	68.20	-12.47	Peak	191	168	Horizontal
5508.171	53.43	68.20	-14.77	Peak	195	134	Vertical
7606.506	55.12	74.00	-18.88	Peak	225	390	Vertical
7606.635	42.91	54.00	-11.09	RMS	290	276	Vertical

Table 730 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

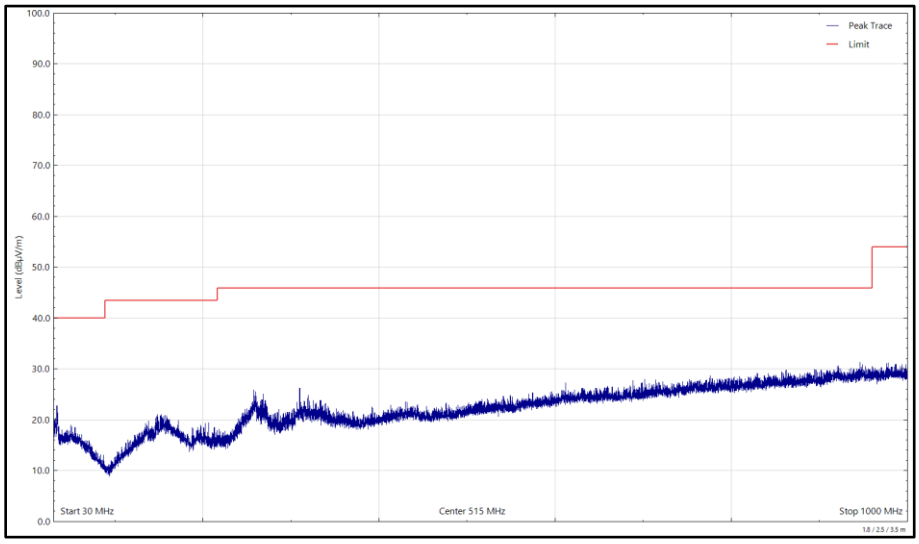

Figure 645 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

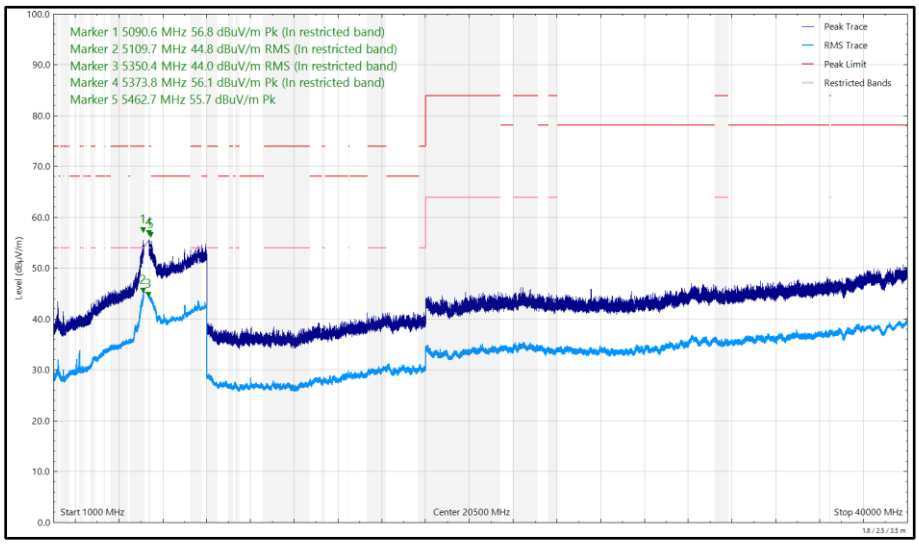

Figure 646 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

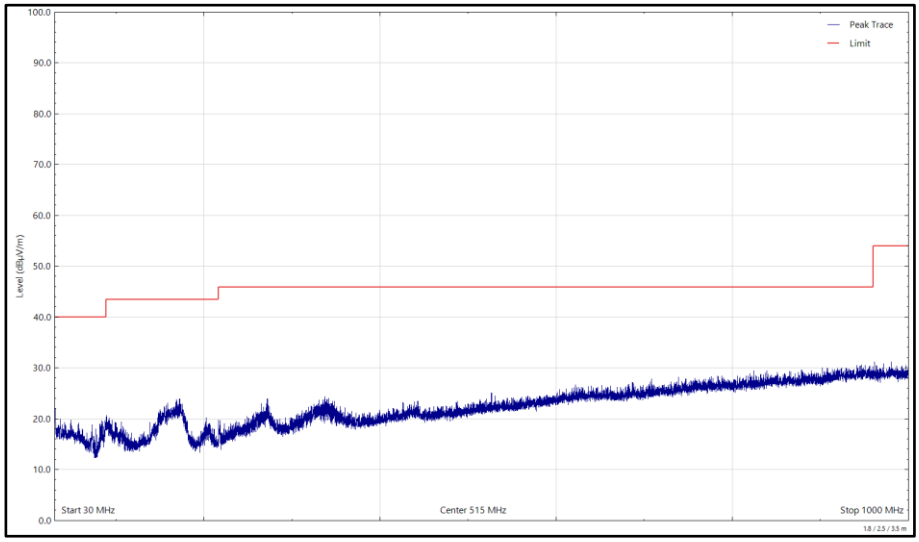

Figure 647 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

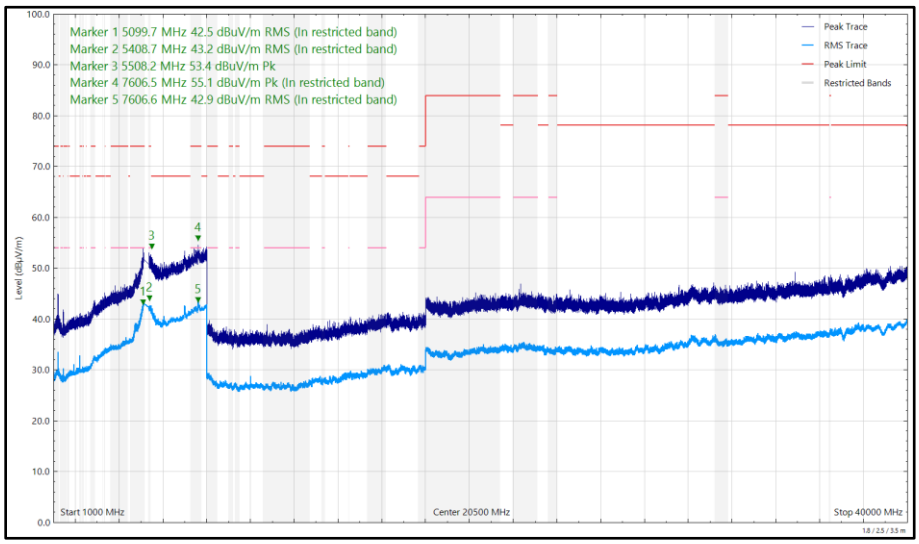

Figure 648 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5147.133	43.18	54.00	-10.82	RMS	185	189	Horizontal
5148.308	40.81	54.00	-13.19	RMS	356	191	Vertical
5390.984	45.95	54.00	-8.05	RMS	202	181	Horizontal
5391.009	57.69	74.00	-16.31	Peak	181	200	Horizontal
5394.202	44.73	54.00	-9.27	RMS	23	173	Vertical
5406.876	56.56	74.00	-17.44	Peak	23	172	Vertical
5474.891	54.24	68.20	-13.96	Peak	29	159	Vertical
5558.271	55.35	68.20	-12.85	Peak	196	249	Horizontal
7605.070	54.96	74.00	-19.04	Peak	106	123	Vertical
7610.540	43.07	54.00	-10.93	RMS	130	127	Vertical

Table 731 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

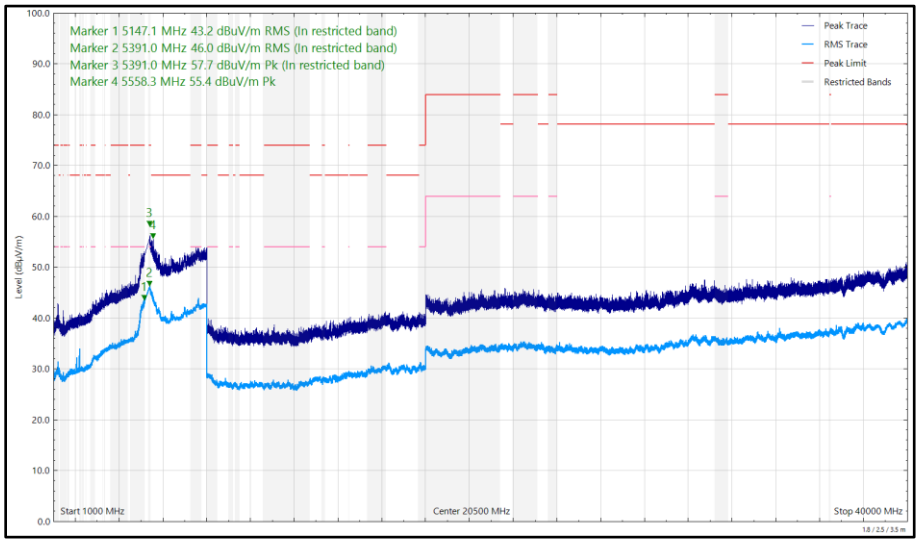

Figure 649 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

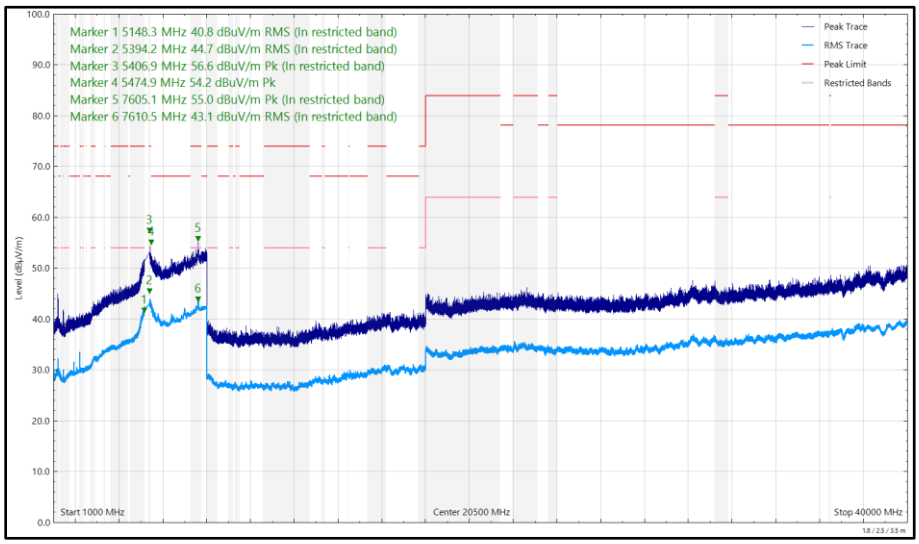

Figure 650 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5332.329	54.92	68.20	-13.28	Peak	18	170	Vertical
5343.773	56.14	68.20	-12.06	Peak	191	172	Horizontal
5403.528	57.15	74.00	-16.85	Peak	190	162	Horizontal
5406.989	45.16	54.00	-8.84	RMS	180	172	Horizontal
5409.873	43.64	54.00	-10.36	RMS	21	166	Vertical
5746.851	52.83	68.20	-15.37	Peak	325	160	Vertical
5780.311	54.56	68.20	-13.64	Peak	179	243	Horizontal
7599.732	54.60	74.00	-19.40	Peak	221	363	Vertical
7603.457	54.23	74.00	-19.77	Peak	359	247	Horizontal
7610.666	42.72	54.00	-11.28	RMS	11	386	Vertical
7610.980	42.59	54.00	-11.41	RMS	355	109	Horizontal

Table 732 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

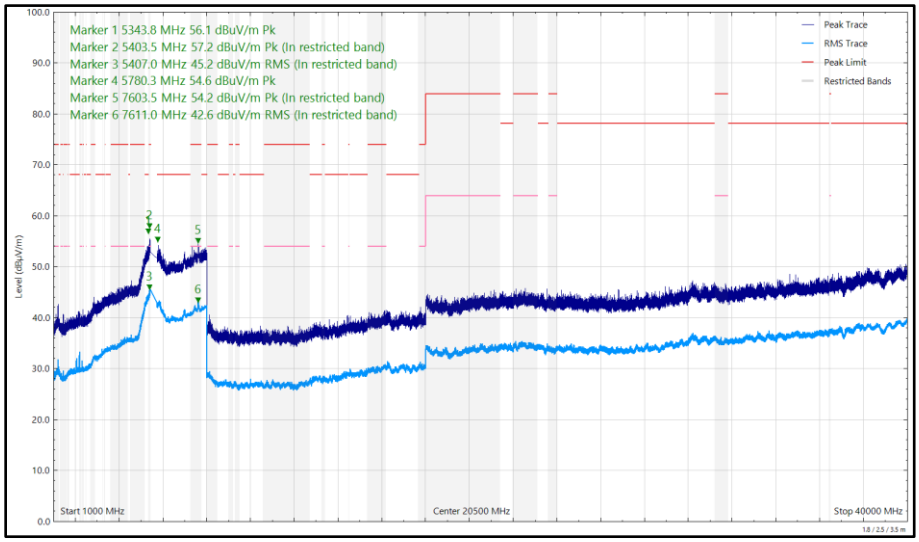

Figure 651 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

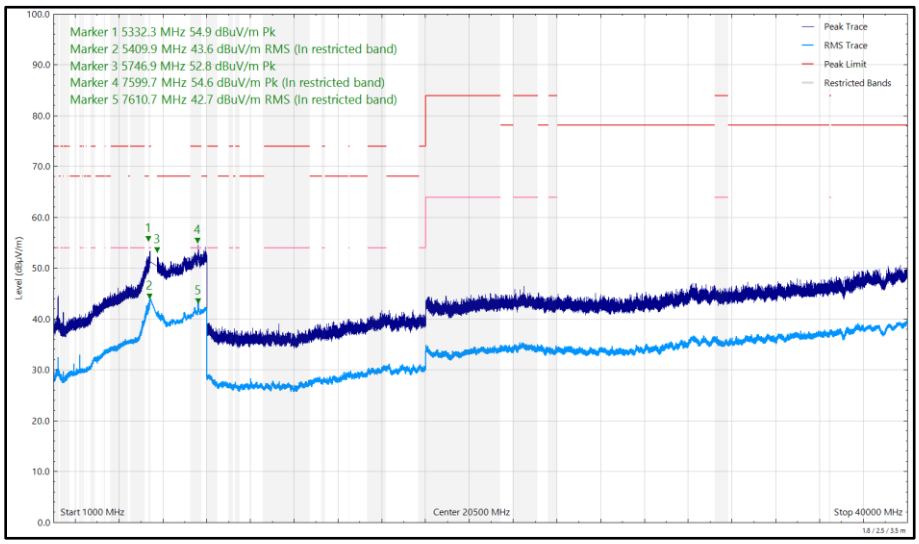

Figure 652 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5452.112	42.80	54.00	-11.20	RMS	190	104	Horizontal
5458.788	42.35	54.00	-11.65	RMS	24	180	Vertical
5464.065	54.49	68.20	-13.71	Peak	24	173	Vertical
5465.547	55.46	68.20	-12.74	Peak	201	142	Horizontal
5761.000	57.00	68.20	-11.20	Peak	188	150	Horizontal
5762.978	57.25	68.20	-10.95	Peak	325	138	Vertical

Table 733 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

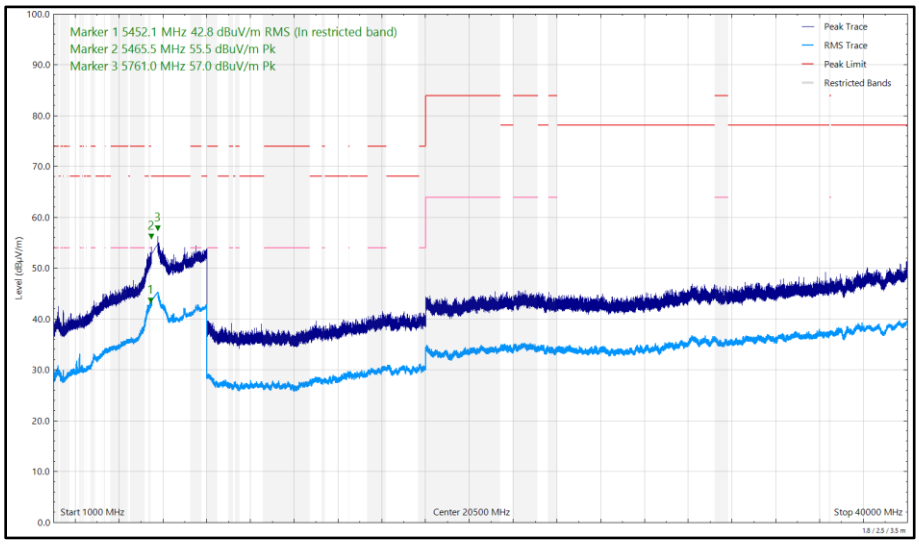

Figure 653 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

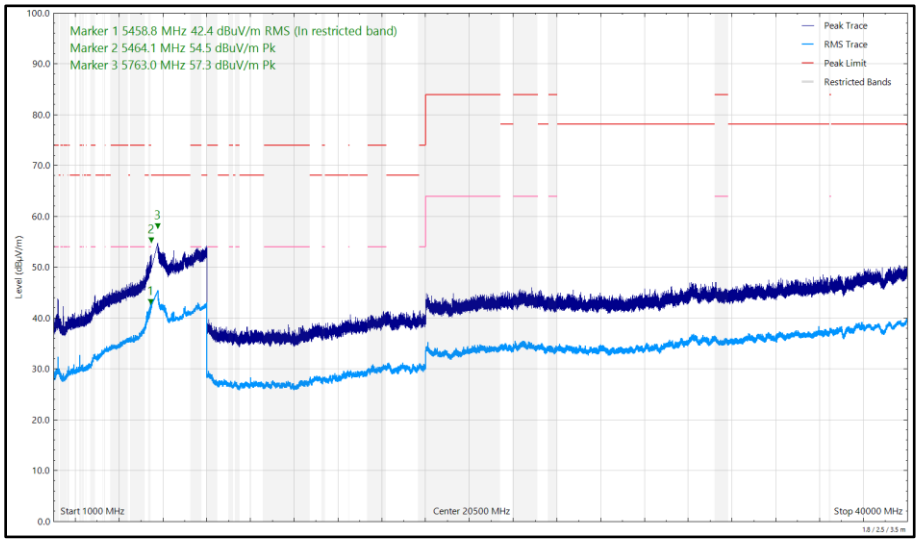

Figure 654 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5456.980	40.28	54.00	-13.72	RMS	13	228	Vertical
5460.145	41.61	54.00	-12.39	RMS	188	110	Horizontal
5589.064	53.96	68.20	-14.24	Peak	194	156	Vertical
5602.601	55.86	68.20	-12.34	Peak	217	100	Horizontal
5857.293	56.61	68.20	-11.59	Peak	192	286	Horizontal
5858.418	53.41	68.20	-14.79	Peak	0	118	Vertical
6999.519	53.19	68.20	-15.01	Peak	218	110	Vertical
7605.580	42.05	54.00	-11.95	RMS	324	383	Vertical
7607.474	54.22	74.00	-19.78	Peak	73	120	Vertical

Table 734 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

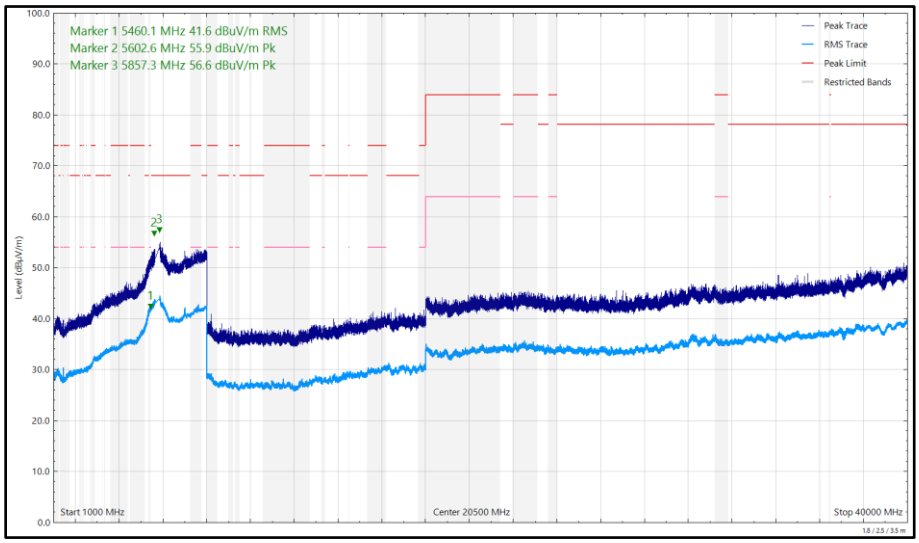

Figure 655 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

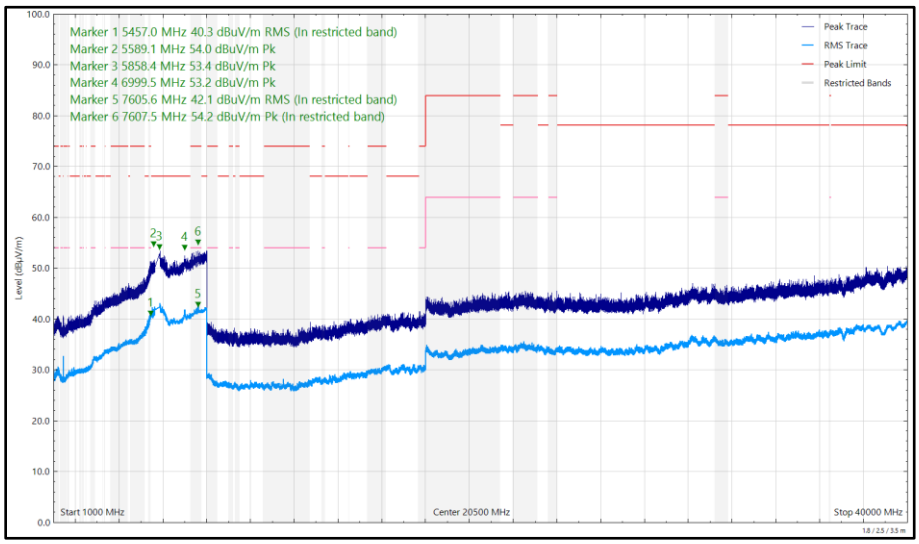

Figure 656 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5445.569	40.96	54.00	-13.04	RMS	192	235	Horizontal
5459.715	40.72	54.00	-13.28	RMS	27	204	Vertical
5715.766	54.72	68.20	-13.48	Peak	326	147	Vertical
5724.113	55.01	68.20	-13.19	Peak	215	120	Horizontal
5972.695	54.28	68.20	-13.92	Peak	204	154	Vertical
5973.647	53.96	68.20	-14.24	Peak	221	100	Horizontal

Table 735 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

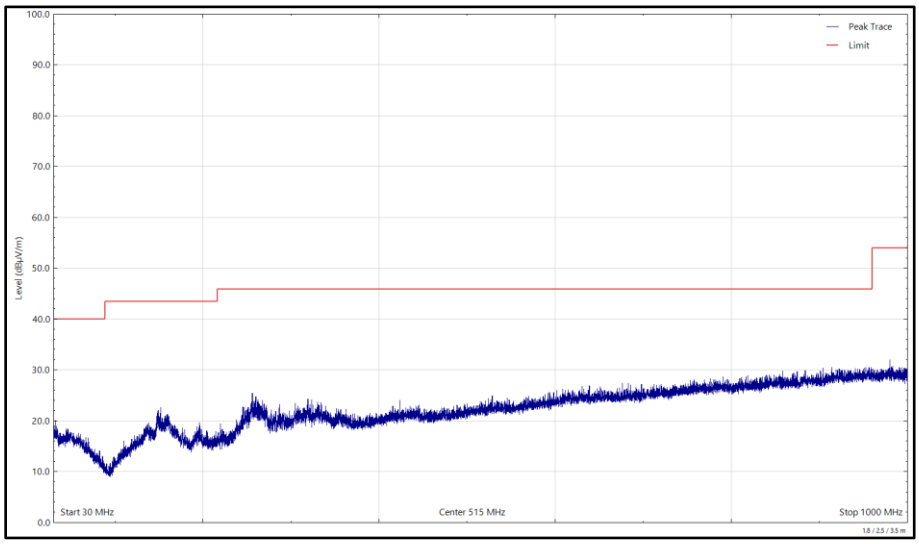

Figure 657 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

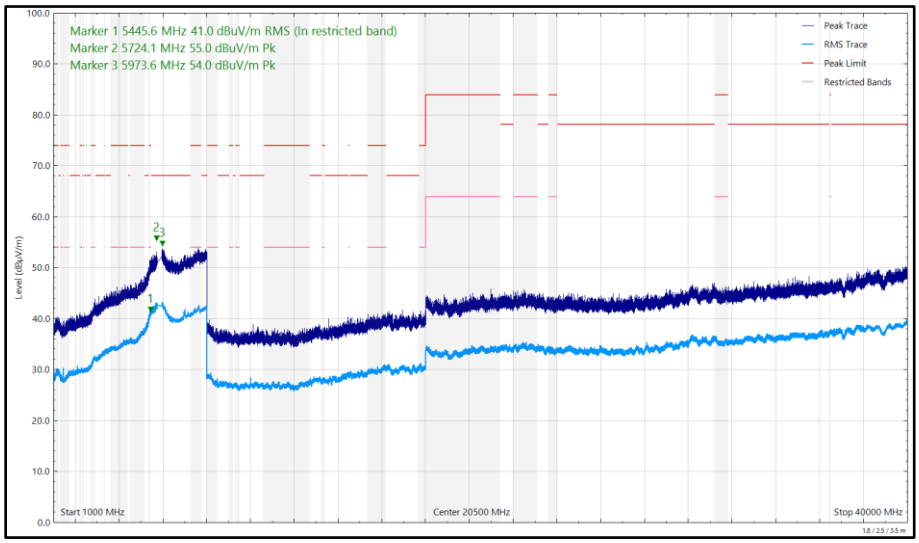

Figure 658 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

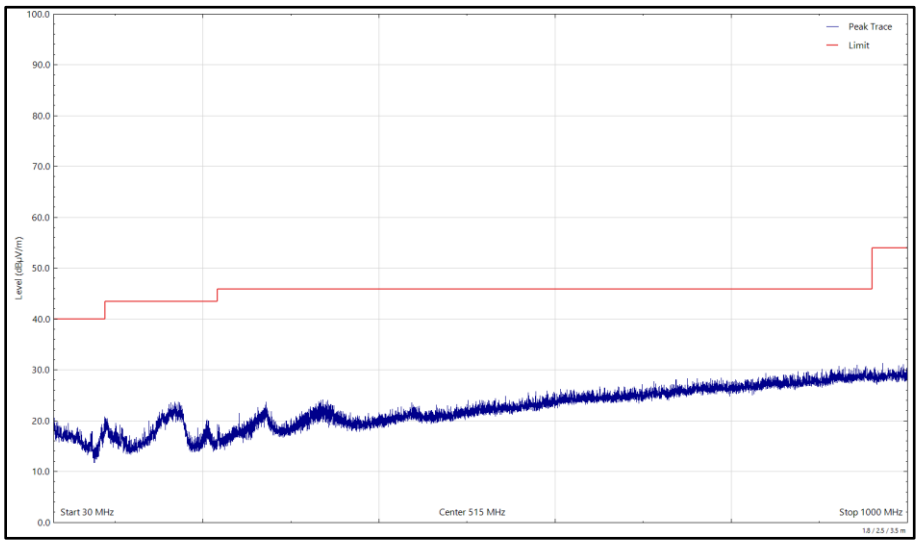

Figure 659 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

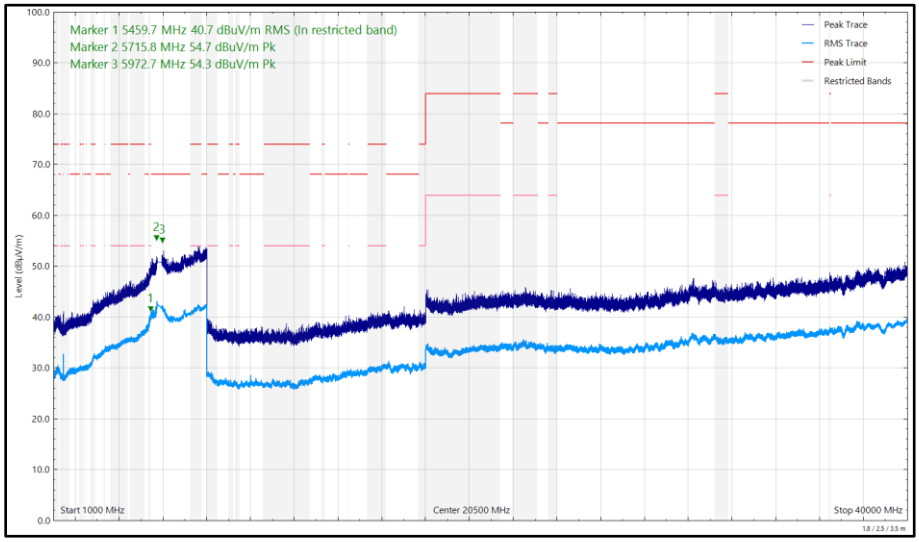

Figure 660 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5106.090	43.68	54.00	-10.32	RMS	187	142	Horizontal
5108.408	57.59	74.00	-16.41	Peak	188	176	Horizontal
5109.814	43.45	54.00	-10.55	RMS	23	107	Vertical
5370.422	55.46	74.00	-18.54	Peak	189	129	Horizontal
5379.295	42.94	54.00	-11.06	RMS	190	139	Horizontal
5391.710	42.43	54.00	-11.57	RMS	16	175	Vertical
5506.480	54.67	74.00	-19.33	Peak	202	168	Horizontal
5515.076	52.39	68.20	-15.81	Peak	24	102	Vertical
7607.344	55.12	74.00	-18.88	Peak	311	386	Vertical
7610.460	42.89	54.00	-11.11	RMS	235	288	Vertical

Table 736 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

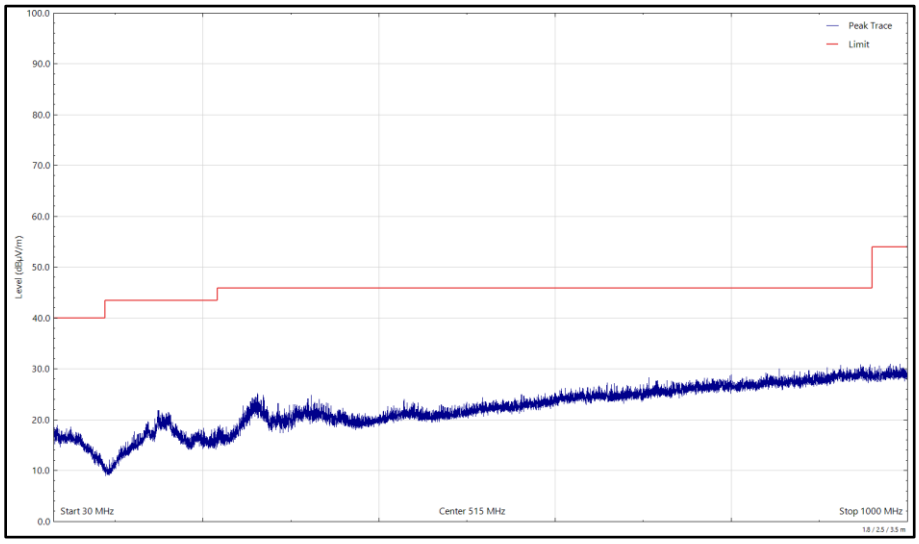

Figure 661 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

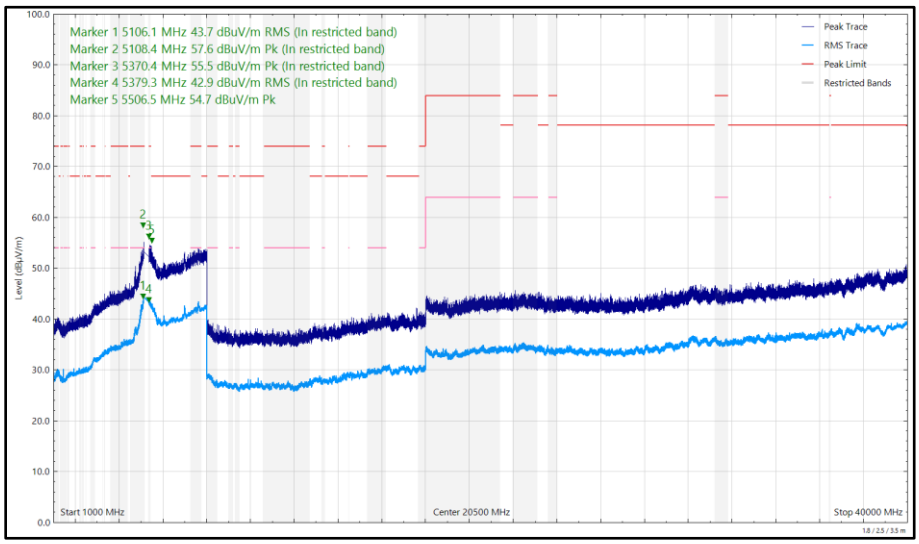

Figure 662 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

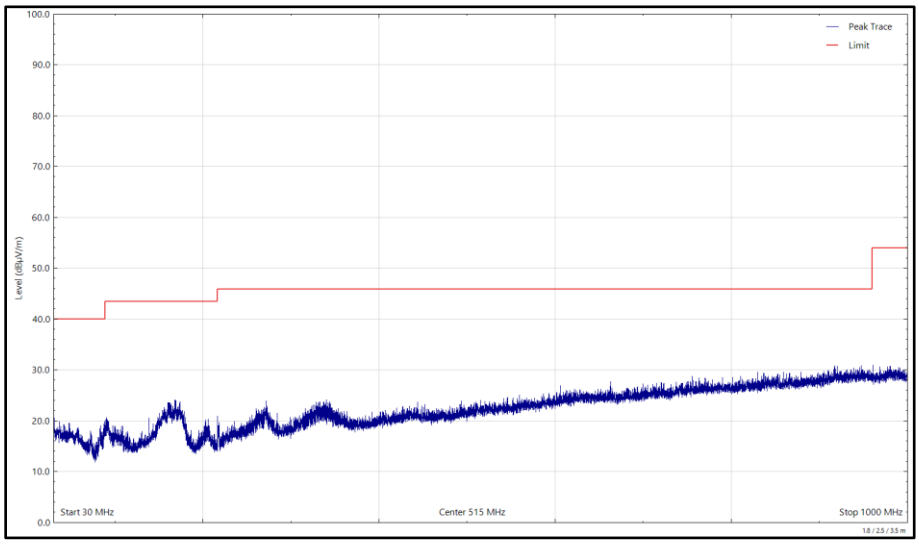

Figure 663 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

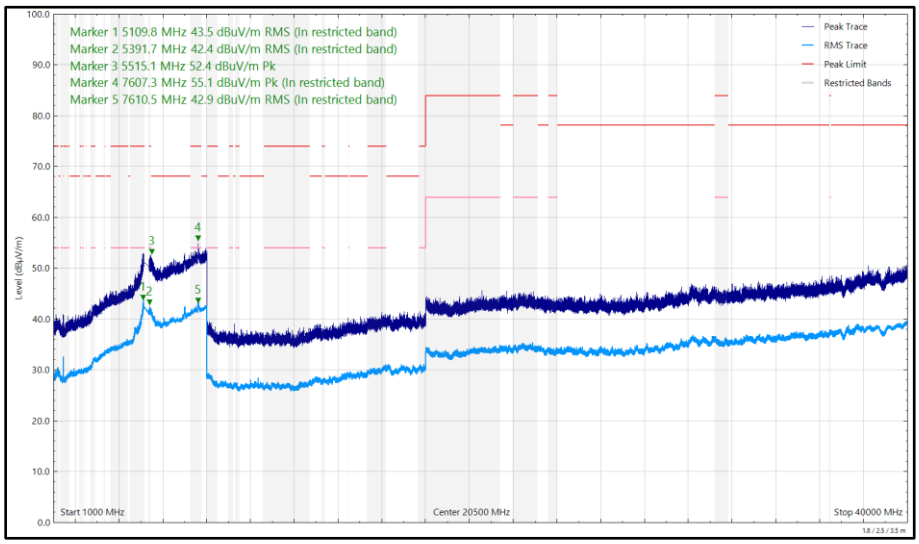

Figure 664 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5141.240	42.13	54.00	-11.87	RMS	199	169	Horizontal
5149.684	40.49	54.00	-13.51	RMS	21	253	Vertical
5390.184	45.13	54.00	-8.87	RMS	201	143	Horizontal
5390.699	43.33	54.00	-10.67	RMS	23	192	Vertical
5391.990	58.11	74.00	-15.89	Peak	193	185	Horizontal
5437.415	54.35	74.00	-19.65	Peak	12	107	Vertical
5462.760	55.99	74.00	-18.01	Peak	197	200	Horizontal
5493.811	53.09	68.20	-15.11	Peak	28	121	Vertical
7607.791	55.06	74.00	-18.94	Peak	117	175	Vertical
7611.400	43.03	54.00	-10.97	RMS	1	376	Vertical

Table 737 - 5320 MHz (CH64), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

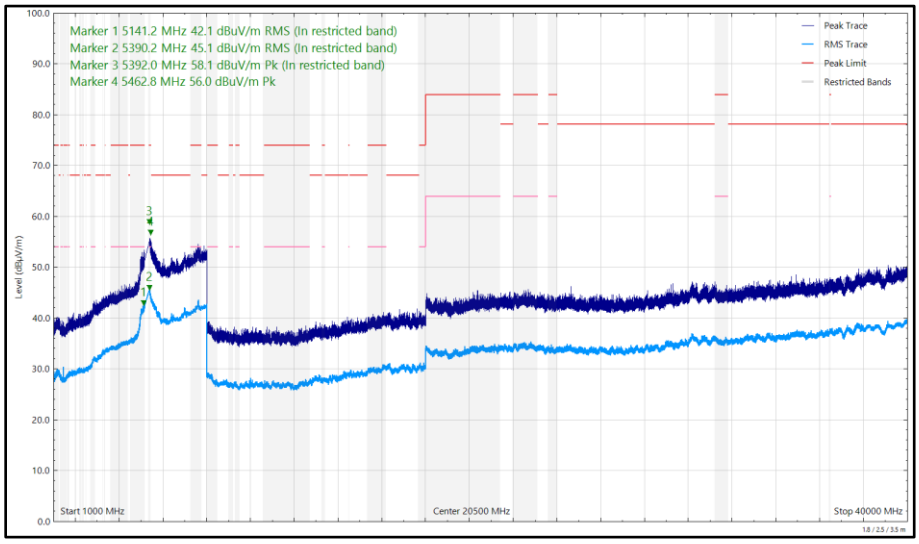

Figure 665 - 5320 MHz (CH64), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

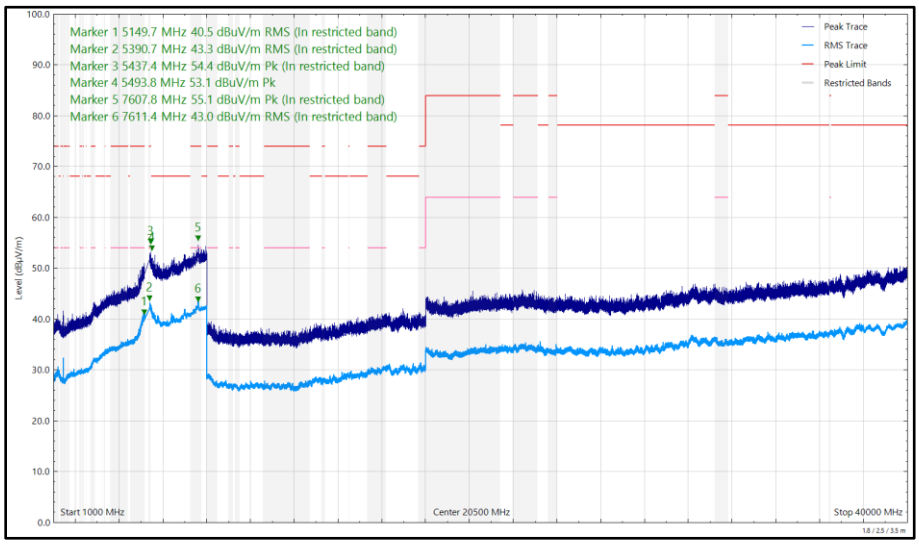

Figure 666 - 5320 MHz (CH64), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5333.857	52.45	68.20	-15.75	Peak	18	102	Vertical
5334.801	54.68	68.20	-13.52	Peak	189	315	Horizontal
5381.495	54.62	74.00	-19.38	RMS	186	103	Horizontal
5409.100	43.71	54.00	-10.29	RMS	200	132	Horizontal
5409.422	41.91	54.00	-12.09	RMS	25	110	Vertical
5726.815	53.08	68.20	-15.12	Peak	190	209	Horizontal
5746.676	51.73	68.20	-16.47	Peak	360	100	Vertical
7612.115	42.73	54.00	-11.27	RMS	24	129	Horizontal
7612.294	42.45	54.00	-11.55	RMS	198	287	Vertical
7614.314	54.69	74.00	-19.31	Peak	62	208	Horizontal
7614.350	54.86	74.00	-19.14	Peak	357	369	Vertical

Table 738 - 5500 MHz (CH100), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

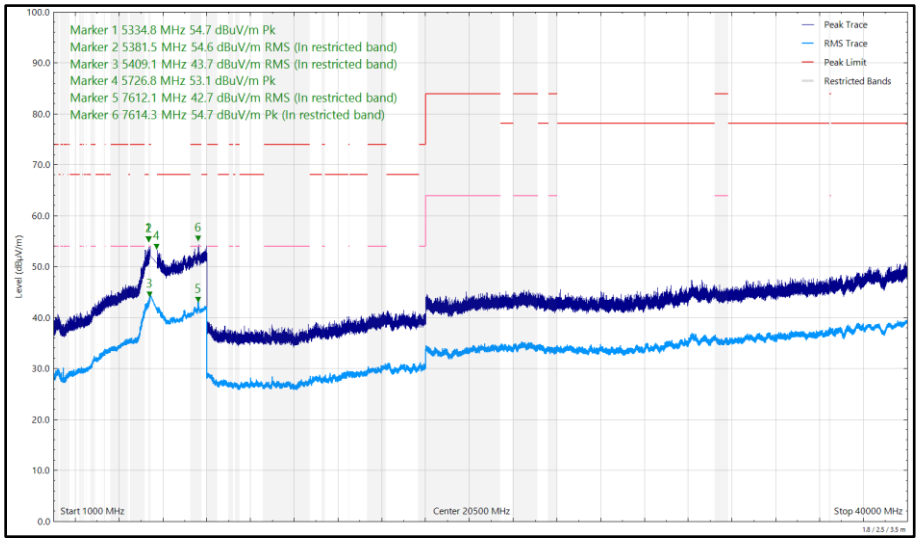

Figure 667 - 5500 MHz (CH100), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

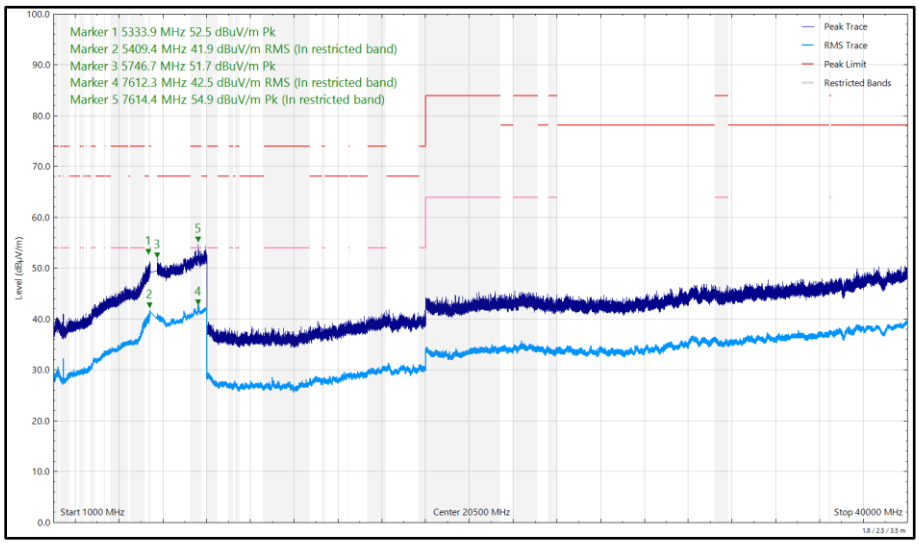

Figure 668 - 5500 MHz (CH100), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5269.072	53.08	68.20	-15.12	Peak	197	211	Horizontal
5449.380	41.14	54.00	-12.86	RMS	20	102	Vertical
5453.997	41.63	54.00	-12.37	RMS	198	109	Horizontal
5465.437	53.87	68.20	-14.33	Peak	22	217	Vertical
5767.756	55.63	68.20	-12.57	Peak	332	148	Vertical
5776.131	56.85	68.20	-11.35	Peak	195	183	Horizontal

Table 739 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

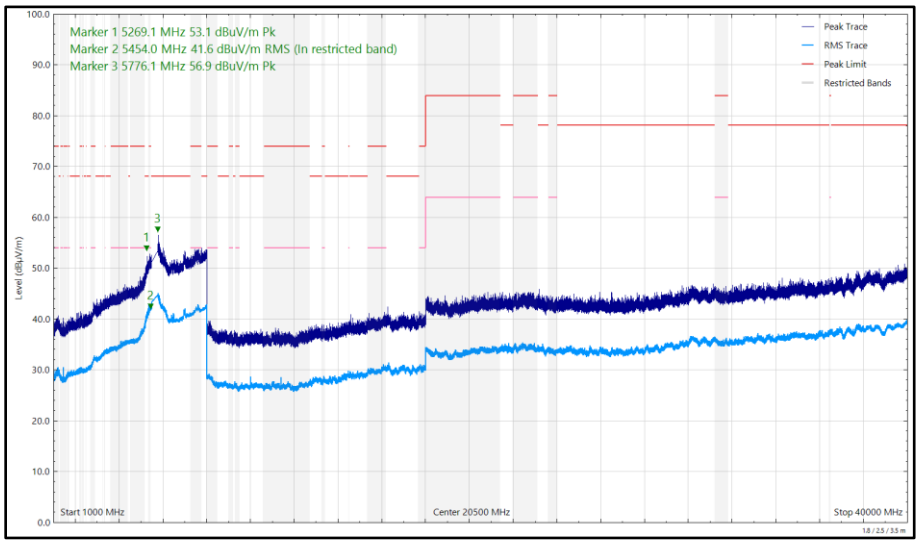

Figure 669 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

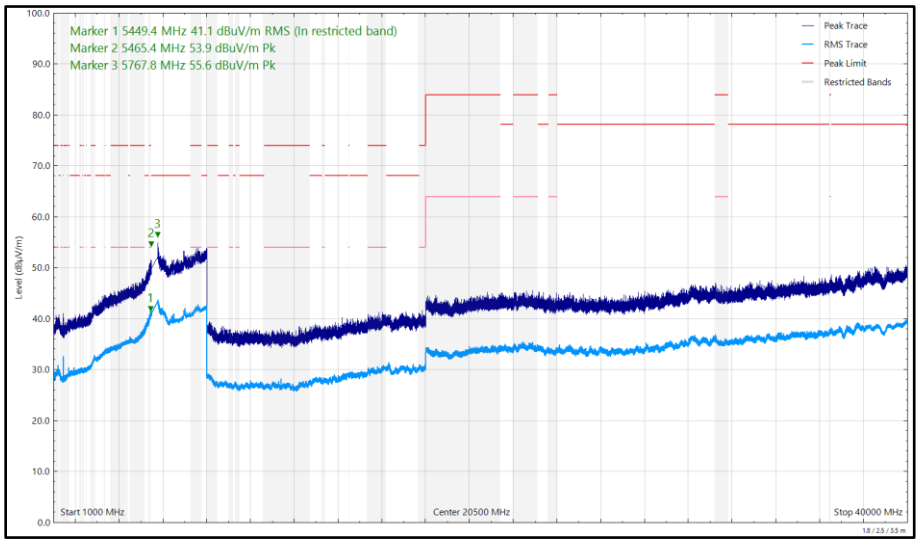

Figure 670 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5430.795	41.78	54.00	-12.22	RMS	188	191	Horizontal
5457.041	40.41	54.00	-13.59	RMS	325	177	Vertical
5602.173	55.67	68.20	-12.53	Peak	209	113	Horizontal
5616.312	54.02	68.20	-14.18	Peak	195	146	Vertical
5856.711	57.32	68.20	-10.88	Peak	207	297	Horizontal
5856.945	55.66	68.20	-12.54	Peak	24	178	Vertical

Table 740 - 5745 MHz (CH149), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

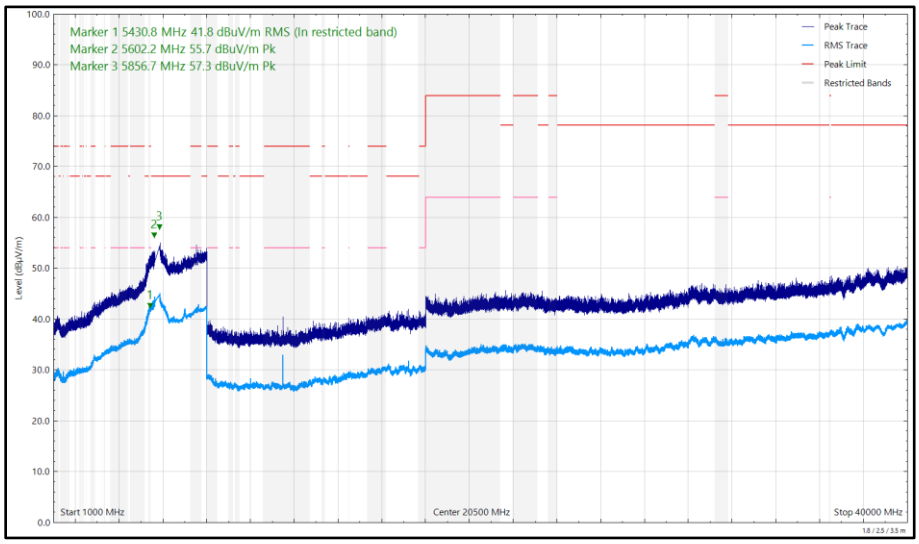

Figure 671 - 5745 MHz (CH149), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

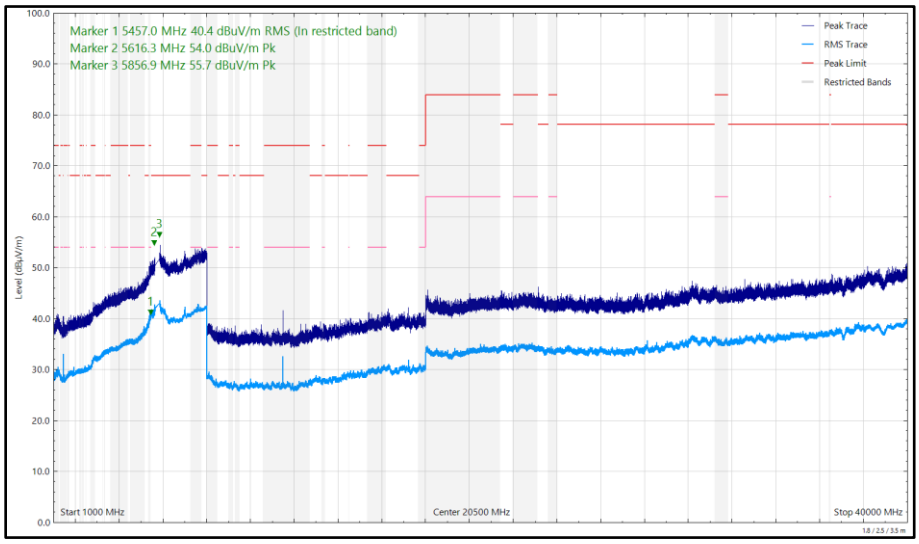

Figure 672 - 5745 MHz (CH149), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5458.701	40.13	54.00	-13.87	RMS	17	109	Vertical
5459.140	40.81	54.00	-13.19	RMS	185	239	Horizontal
5605.738	54.10	68.20	-14.10	Peak	205	191	Horizontal
5718.153	52.95	68.20	-15.25	Peak	4	102	Vertical
5960.772	53.47	68.20	-14.73	Peak	195	263	Vertical
5972.129	54.63	68.20	-13.57	Peak	221	255	Horizontal

Table 741 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

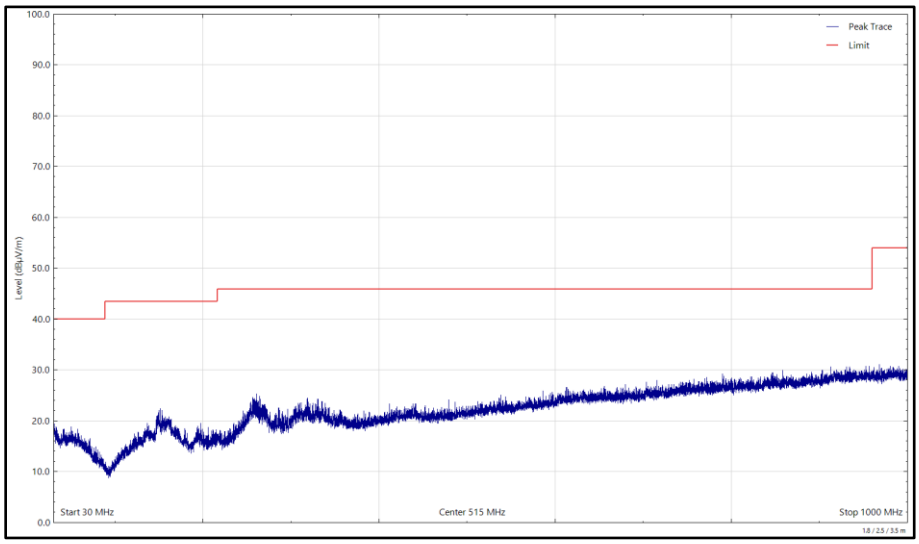

Figure 673 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

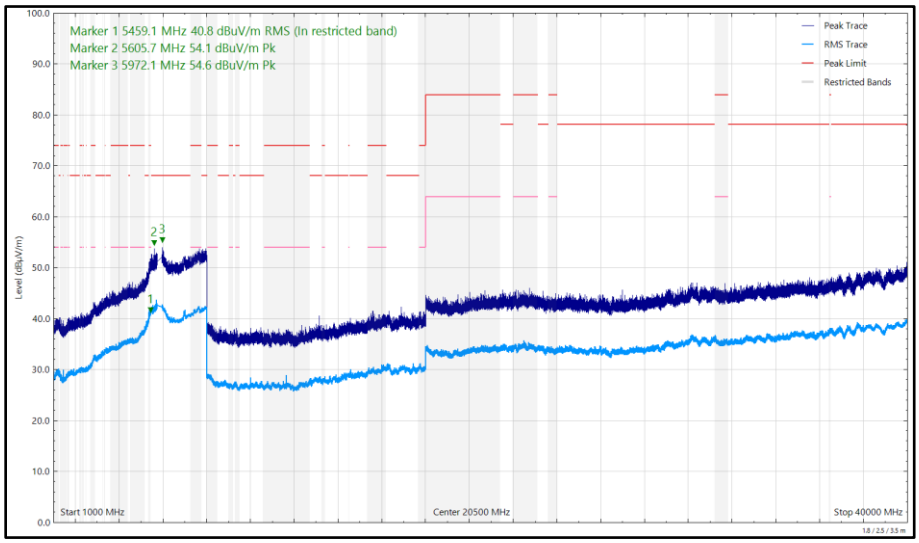

Figure 674 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

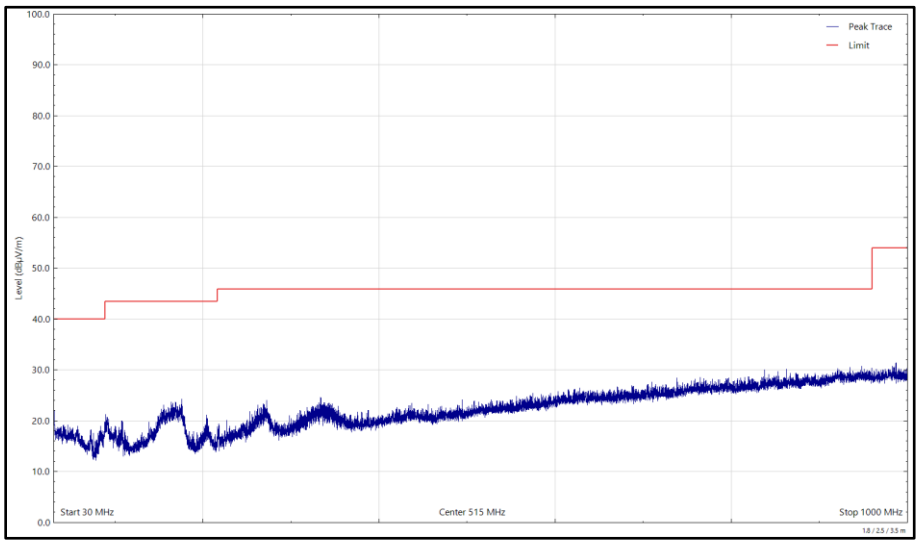

Figure 675 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

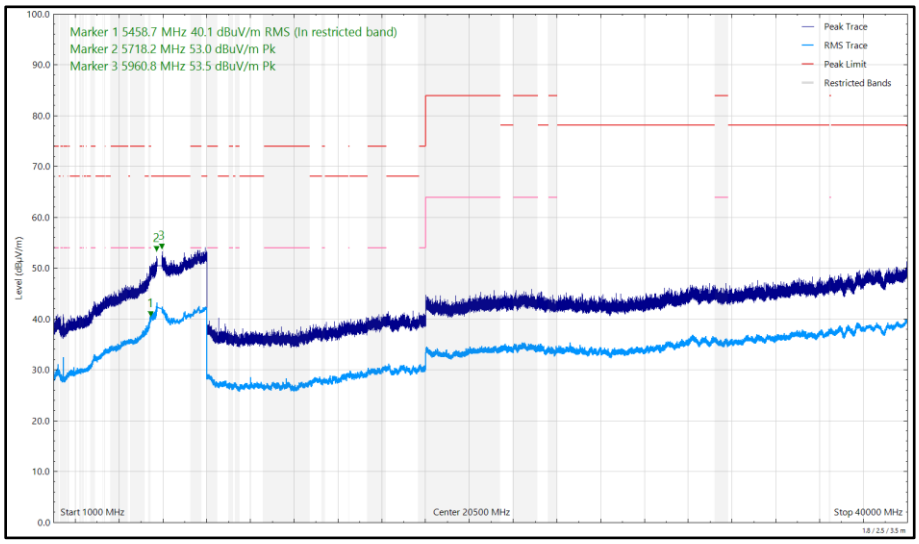

Figure 676 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

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 (µV/m) at 3m	Field Strength Limit (dBµV/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 742 - 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 (µV/m) at 3m	Field Strength Limit (dBµV/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 743 - 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 17 and RF Chamber 18.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.2.0	5125	-	Software
Antenna (DRG 1-10.5GHz)	Schwarzbeck	BBHA9120B	5232	12	09-Jul-2024
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	05-May-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	20-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
SAC Switch Unit	TUV SUD	TUV_SSU_001	6144	12	11-Dec-2024
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024*
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025*
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
Attenuator 4dB	Pasternack	PE7074-4	6201	24	24-May-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	6294	12	06-Jan-2025
USB Spectrum Analyser	Signal Hound	SA124B	6295	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221/B	6305	12	20-May-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6315	12	04-Feb-2025
Cable (SMA to SMA 8m)	Junkosha	MWX221-08000AMSAMS/B	6318	12	18-Feb-2025
EMC Test Receiver	Rohde & Schwarz	ESW44	6333	12	16-Feb-2025
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	07-May-2025
8 GHz High Pass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6427	12	23-Apr-2025
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	10-Feb-2025
Horn Antenna	Schwarzbeck	BBHA 9120 B	6457	12	05-May-2025
3m Semi-Anechoic Chamber, Chamber18	Albatross Projects	Chamber 18	6597	24	22-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
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
2m Cable	Junkosha	MWX241-02000KMSKMS/B	6742	12	01-Feb-2025
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	01-Feb-2025
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

Table 744

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

NOTE: *Only used within calibration period.

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

A3247, S/N: H0K2D7DL49 - Modification State 0

2.7.3 Date of Test

21-May-2024 to 22-May-2024

2.7.4 Test Method

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

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.

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

Yellow - End Of Radar Burst, (T0)
Purple - End Of Channel Move Time, (T0 + 10 seconds)

To verify the non-occupancy period, the external trigger 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	22.3 - 22.8 °C
Relative Humidity	46.2 - 50.0 %

2.7.6 Test Results

5 GHz WLAN - Master to Client

The equipment under test was a Client without Radar Detection.

This test was performed in the following mode of operation: 802.11ac VHT160.

The equipment was set up as shown in the diagram below. The test laptop was configured to run iPerf, transmitting UDP data to the EUT via the DFS Master. 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 companion device, the companion device was replaced by the spectrum analyser and the output of the vector signal generator adjusted to give -62 dBm.

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

Table 745 - Radar Pulse Type 0 Characteristics

Manufacturer	Model	Serial Number	FCC ID
ASUS	GT-AXE11000	M8IG0X400285XVN	MSQ-RTAXJF00

Table 746 - Details of Master Device used to support testing

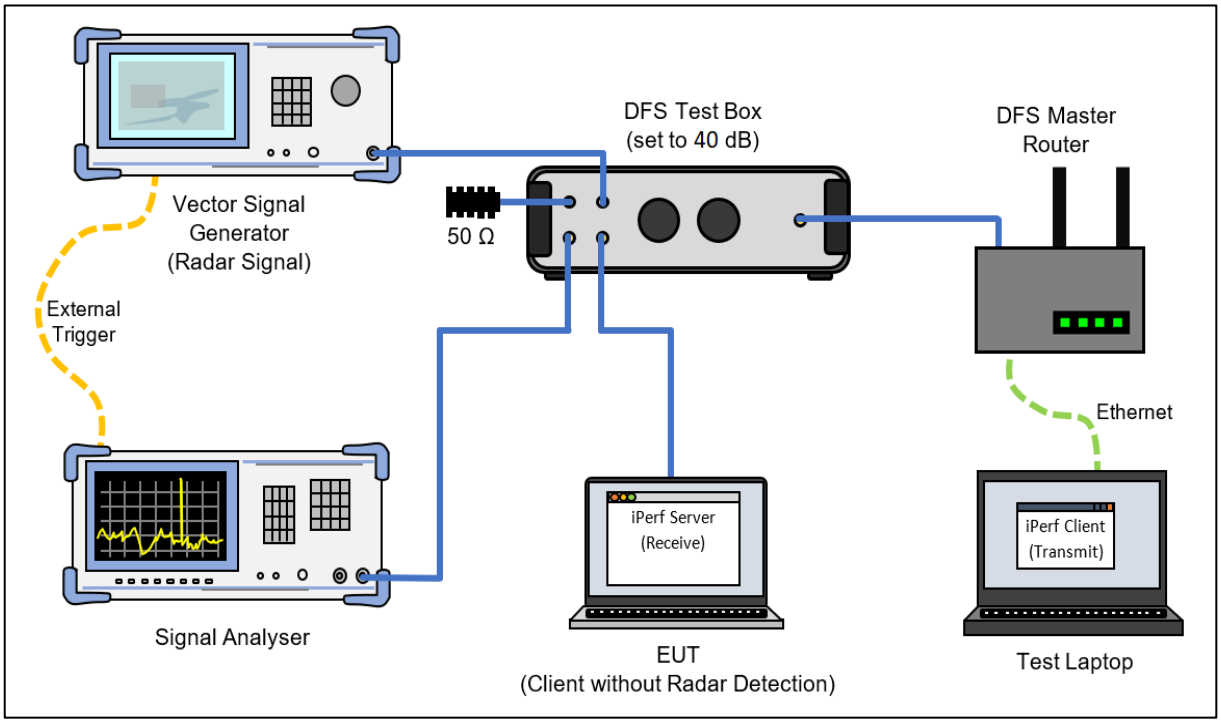

Figure 677- Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master

Figure 678 - Verification of Radar Type 0

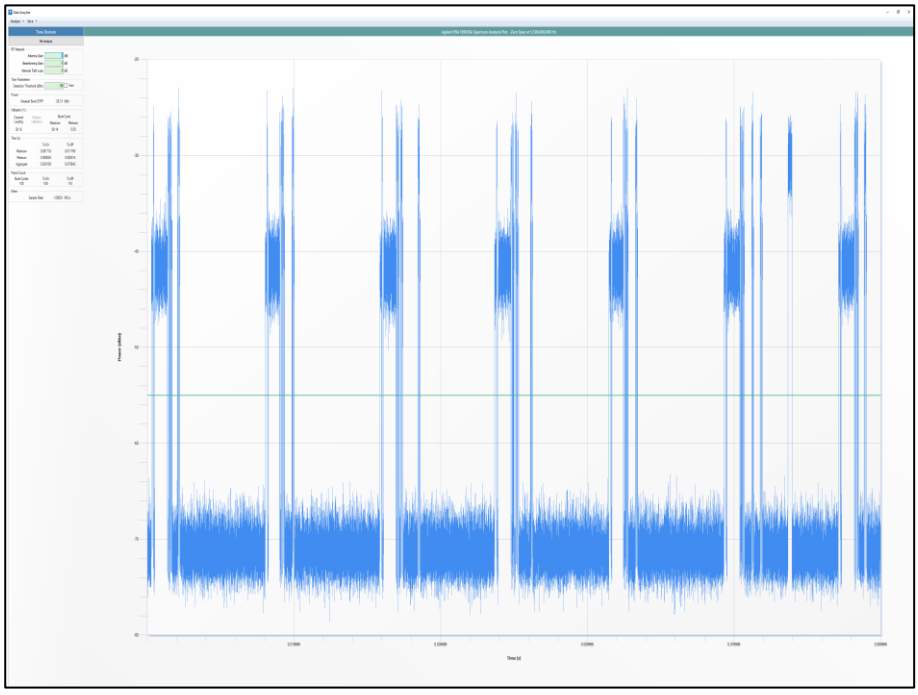

Figure 679 - Channel Loading

The channel loading was 20.16%

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 747 - DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Test Parameter	Result
Test Channel	CH114 (5570 MHz), Control CH100 (5500 MHz)
Channel Move Time	0.077 s
Channel Closing Time (Aggregate Time During 200 ms)	6.120 ms
Channel Closing Time (Aggregate Time During 200 ms to 10 s)	0 ms
Channel Closing Time (Aggregate Time During 10 s)	6.120 ms
Transmission Observed During Non-Occupancy Period	No

Table 748 - In-Service Monitoring Test Results

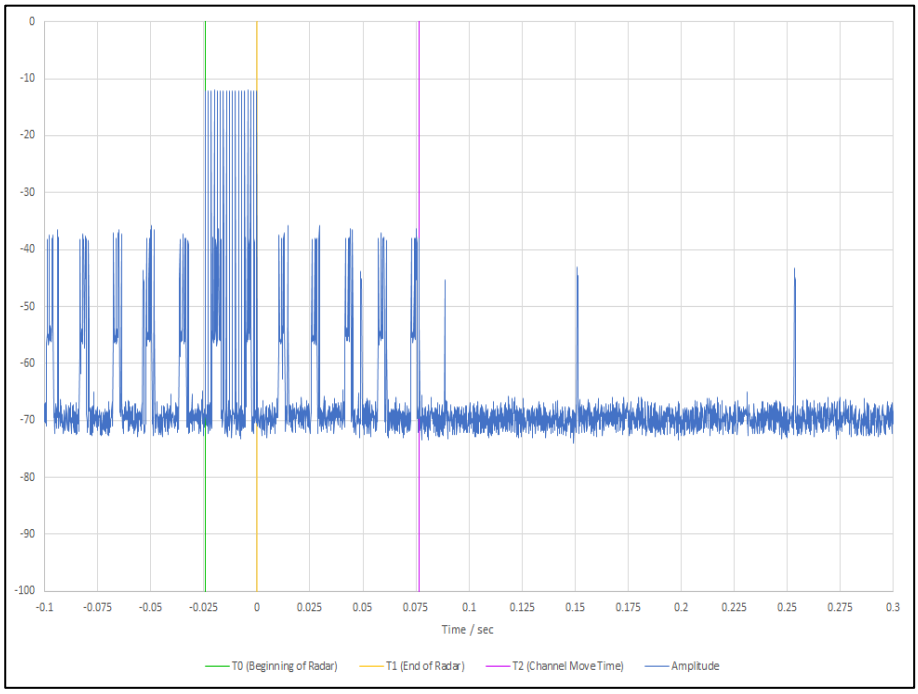

Figure 680 - First 200 ms of Channel Shutdown Period

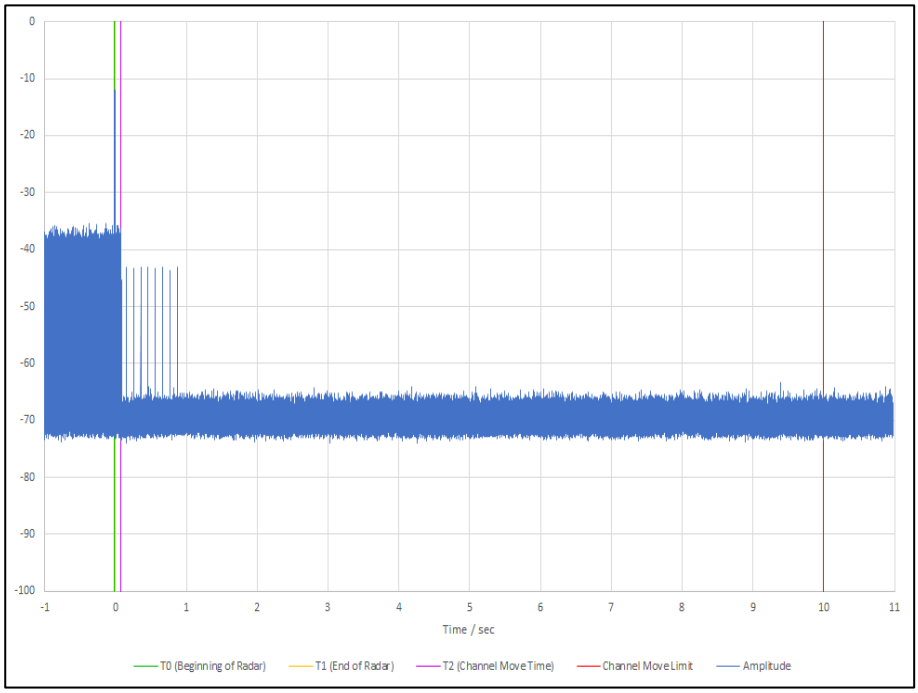

Figure 681 - First 12 s of Channel Shutdown Period

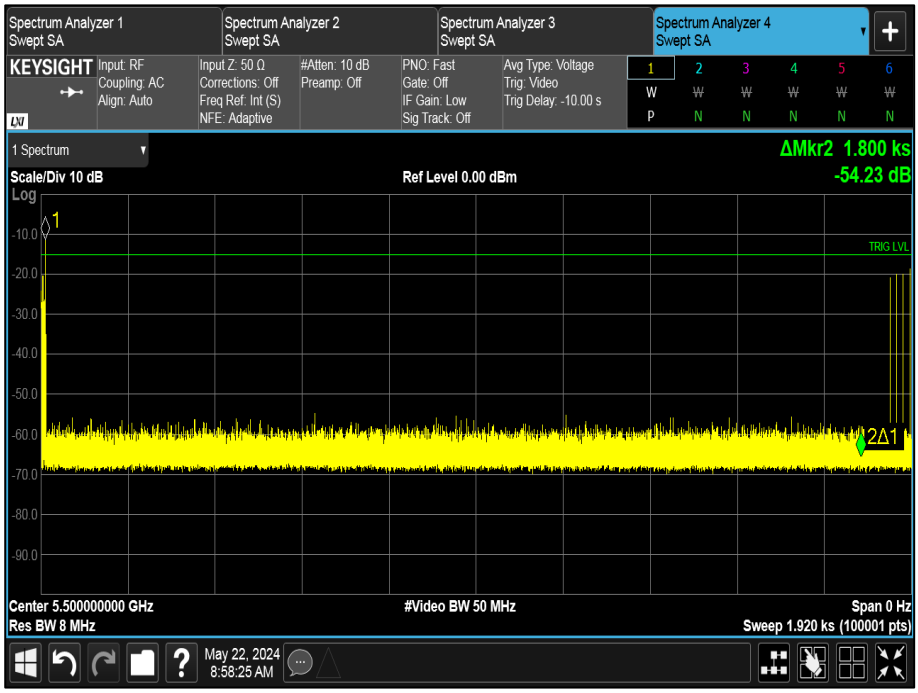

Figure 682 - 30 minute Non-Occupancy Period

5 GHz WLAN - Client to Client

The equipment under test was a Client without Radar Detection.

This test was performed in the following mode of operation: 802.11ac VHT160.

The equipment was set up as shown in the diagram below. The EUT and a 2nd client device were both connected to the DFS Master device. The 2nd client device was set to stream video directly to the EUT using the AirPlay protocol, while under the supervision of the DFS master (but without the DFS master re-transmitting the data packets). The channel loading was checked to ensure it was >17%.

To calibrate the level of the radar at the input to the DFS Master, the DFS Master device was replaced by the spectrum analyser and the output of the vector signal generator adjusted to give -62 dBm.

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

Table 749 - Radar Pulse Type 0 Characteristics

Manufacturer	Model	Serial Number	FCC ID
ASUS	GT-AXE11000	M8IG0X400285XVN	MSQ-RTAXJF00

Table 750 - Details of Master Device used to support testing

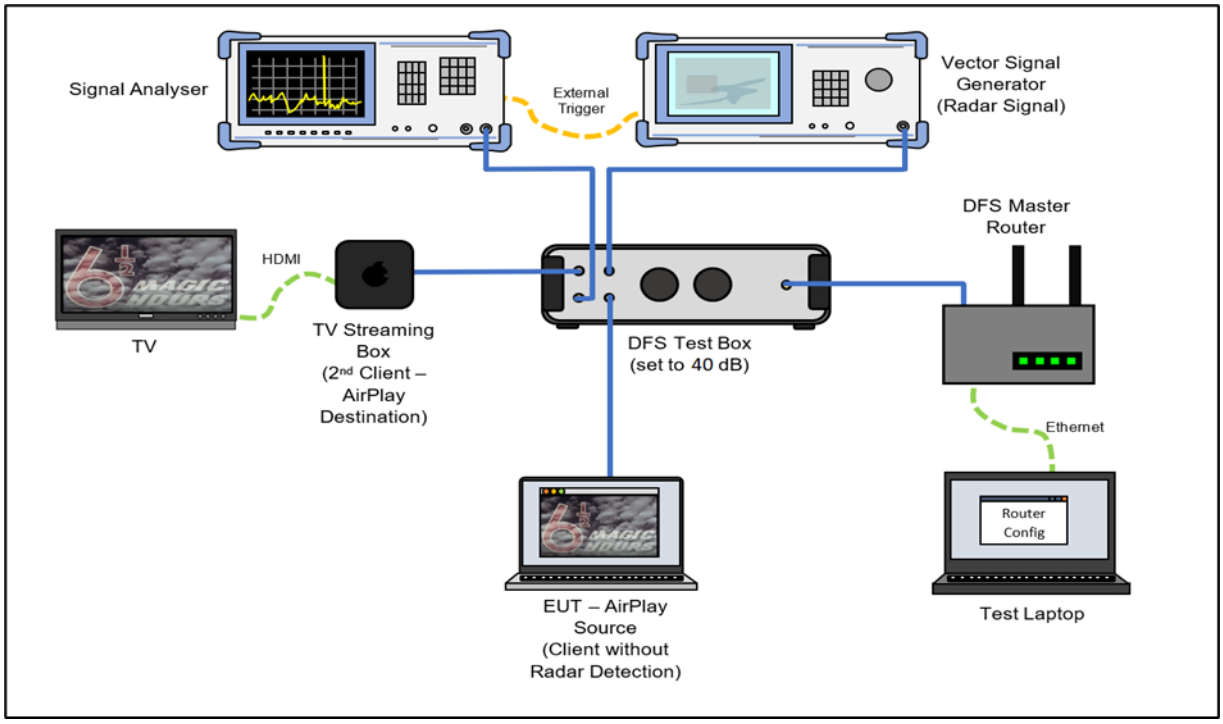

Figure 683- Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master

Figure 684 - Verification of Radar Type 0

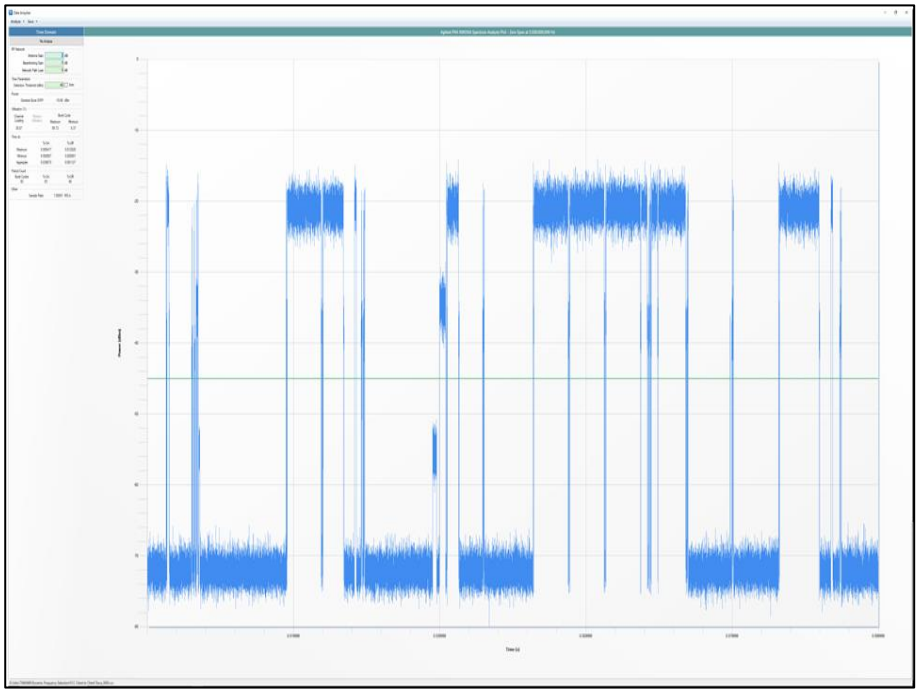

Figure 685 - Channel Loading

The channel loading was 38.87%

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 751 - DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Test Parameter	Result
Test Channel	CH114 (5570 MHz), Control CH100 (5500 MHz)
Channel Move Time	0.977 s
Channel Closing Time (Aggregate Time During 200 ms)	76.320 ms
Channel Closing Time (Aggregate Time During 200 ms to 10 s)	18.360 ms
Channel Closing Time (Aggregate Time During 10 s)	94.680 ms
Transmission Observed During Non-Occupancy Period	No

Table 752 - In-Service Monitoring Test Results

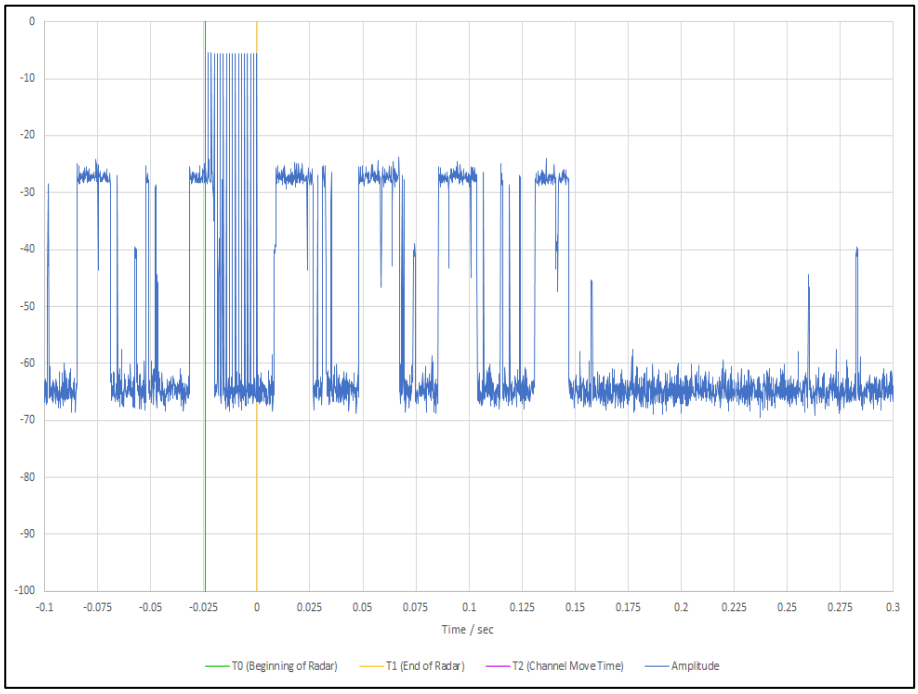

Figure 686 - First 200 ms of Channel Shutdown Period

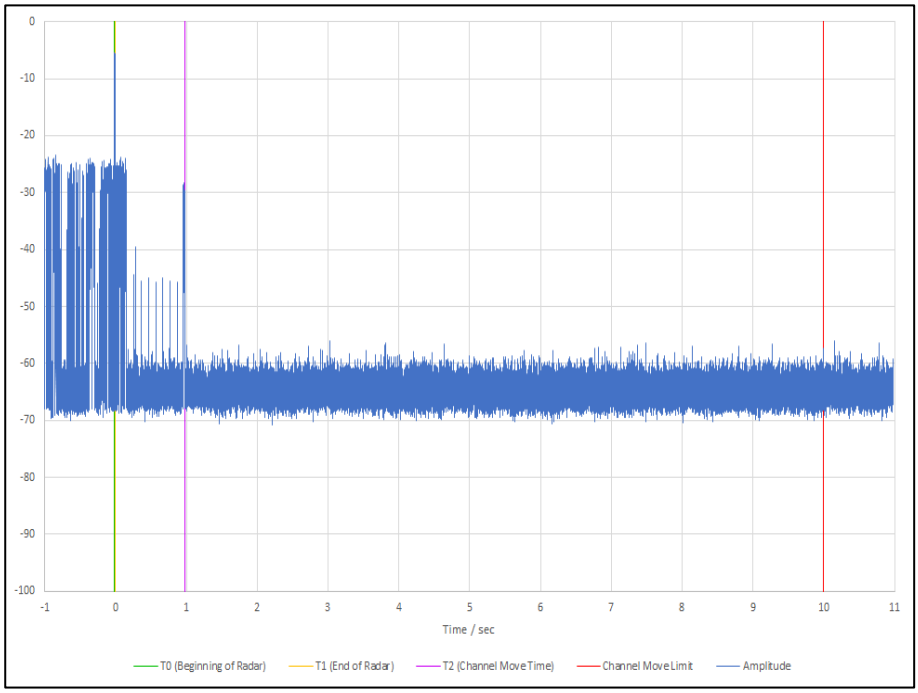

Figure 687 - First 12 s of Channel Shutdown Period

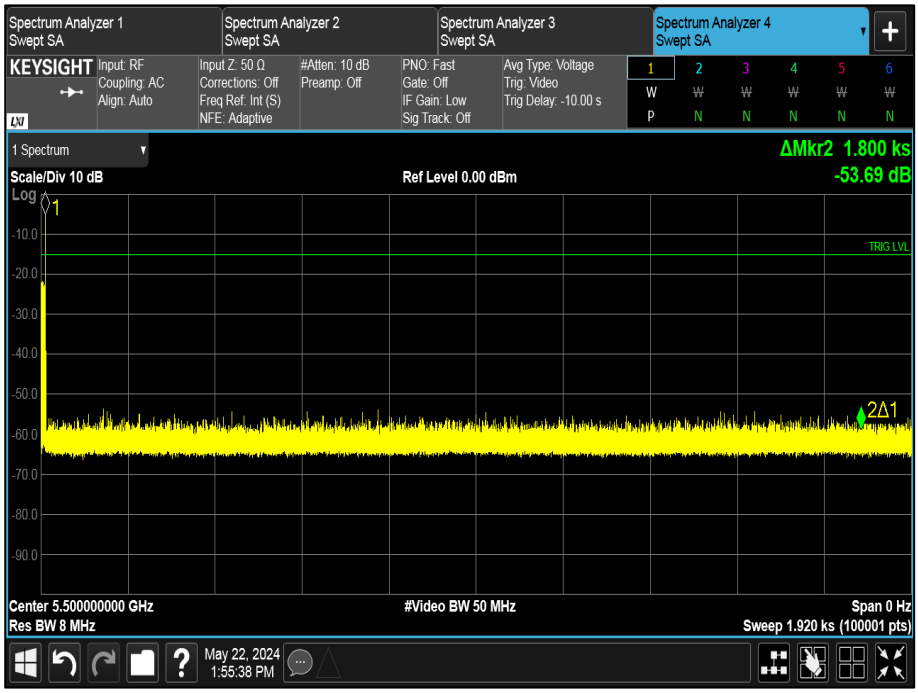

Figure 688 - 30 minute Non-Occupancy Period

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 753 - 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 754 - 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 Shielded Laboratory 1.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
EXA Signal Analyser	Keysight Technologies	N9010B	4968	24	29-Jan-2026
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5416	12	07-Mar-2025
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5429	12	16-May-2025
3.5mm Cable (1m)	Junkosha	MWX221/B	5837	12	27-Jul-2024
Vector Signal Generator	Rohde & Schwarz	SMM100A	5915	36	01-Mar-2026
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/B	6019	12	05-Jun-2024
Humidity & Temperature meter	R.S Components	1364	6148	12	21-Jul-2024
WiFi 6E Tri-Band Gaming Router	Asus	GT-AXE110000	6251	-	TU
Test Coupling Network	TUV SUD	TUV_RxTest_001	6387	12	04-Sep-2024

Table 755

TU - Traceability Unscheduled

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
Emission Bandwidth	± 3913.52 kHz
Maximum Conducted Output Power	± 1.38 dB
Maximum Conducted Power Spectral Density	± 1.49 dB
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 756

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.