



2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)
ISED RSS-247, Clause 7.3
ISED RSS-GEN, Clause 6.13 and 8.9

2.6.2 Equipment Under Test and Modification State

A3427, S/N: F17G4HW2CV - Modification State 0
A3427, S/N: FJJHL9VFLF - Modification State 0

2.6.3 Date of Test

02-December-2025 to 12-December-2025

2.6.4 Test Method

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

Measurements were undertaken from 30 MHz to 40 GHz on Channel 36 (5180 MHz) and Channel 165 (5825 MHz).

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

All testing was performed using the lowest data rate/modulation scheme for the applicable mode since this was declared worst case by the customer.

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 using trace averaging.

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 $\mu\text{V/m}$:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

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

2.6.5 Test Setup Diagram

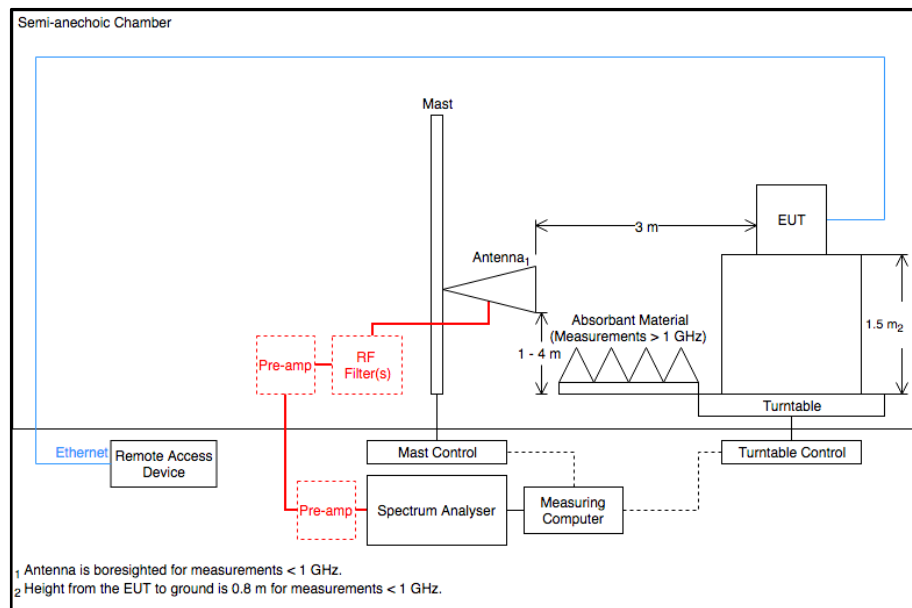


Figure 1131 - Radiated Emissions Test Setup Diagram

2.6.6 Environmental Conditions

Ambient Temperature	21.3 - 24.0 °C
Relative Humidity	34.9 - 50.3 %

2.6.7 Test Results

5 GHz WLAN

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5109.214	43.64	54.00	-10.36	RMS	0	313	Vertical
5109.615	38.27	54.00	-15.73	RMS	303	388	Horizontal
5373.532	55.43	74.00	-18.57	Peak	344	318	Vertical
5394.350	39.23	54.00	-14.77	RMS	299	393	Horizontal
5396.745	43.60	54.00	-10.40	RMS	7	344	Vertical
5474.938	51.41	68.20	-16.79	Peak	287	390	Horizontal
5489.916	54.60	68.20	-13.60	Peak	7	248	Vertical

Table 1541 - 5180 MHz (CH36), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

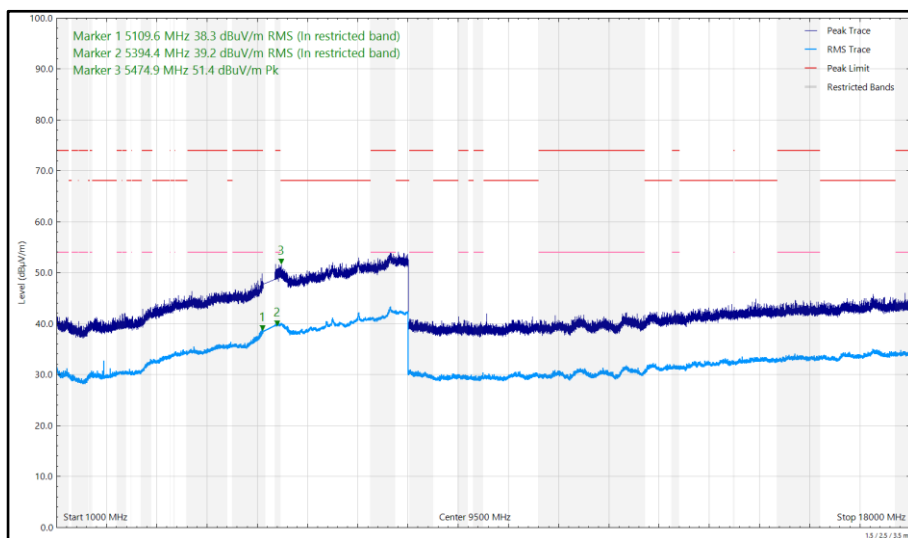


Figure 1132 - 5180 MHz (CH36), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

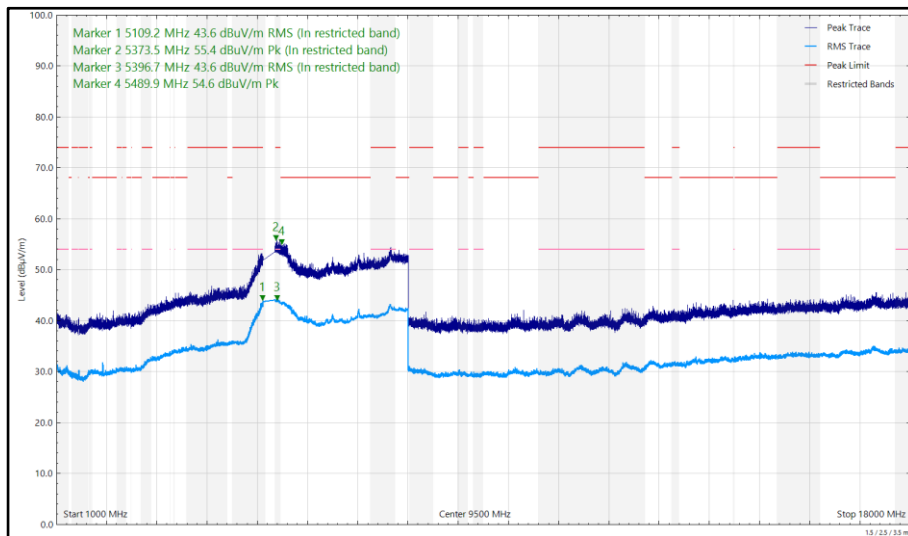


Figure 1133 - 5180 MHz (CH36), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5425.063	55.70	74.00	-18.30	Peak	0	317	Vertical
5459.043	45.25	54.00	-8.75	RMS	0	344	Vertical
5459.367	40.82	54.00	-13.18	RMS	283	400	Horizontal
5460.165	56.74	68.20	-11.46	Peak	359	353	Vertical
5463.432	52.95	68.20	-15.25	Peak	290	351	Horizontal
5779.929	58.57	68.20	-9.63	Peak	5	251	Vertical
5869.960	51.18	68.20	-17.02	Peak	300	399	Horizontal

Table 1542 - 5700 MHz (CH140), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

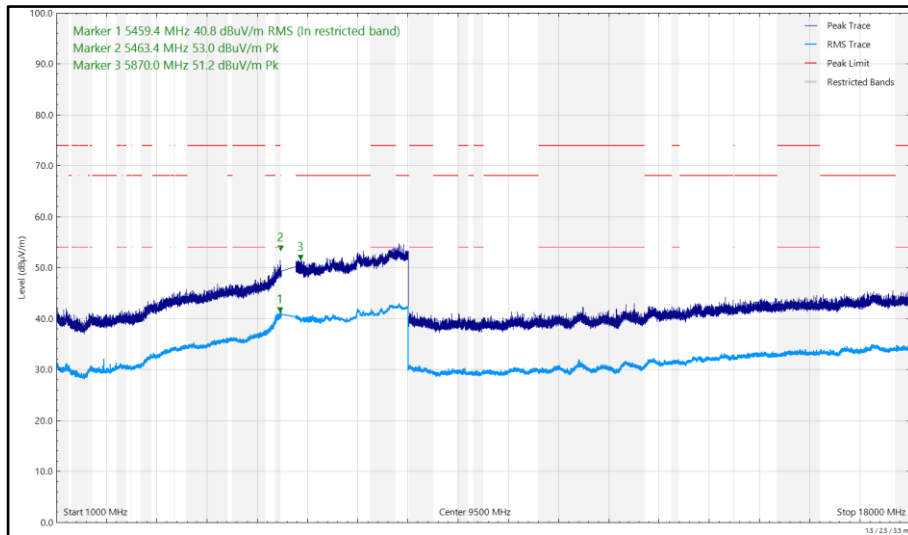


Figure 1134 - 5700 MHz (CH140), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

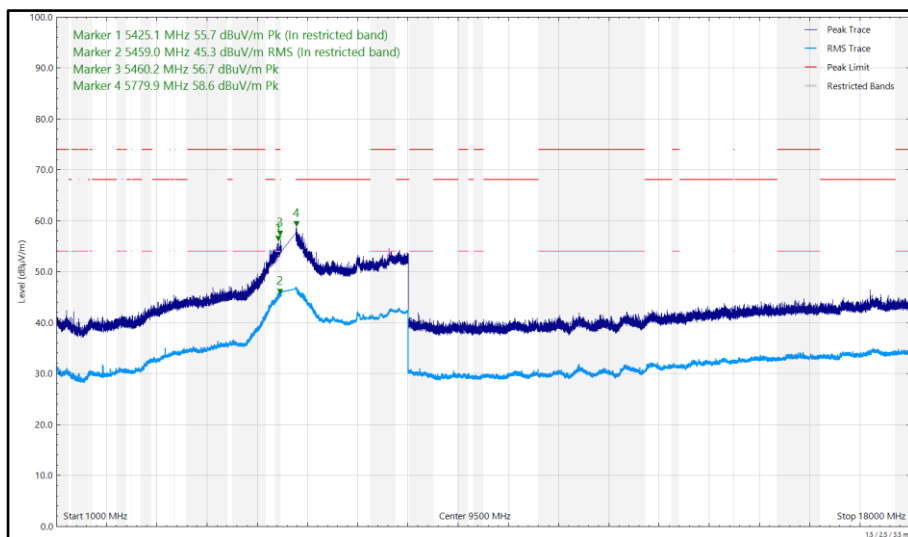


Figure 1135 - 5700 MHz (CH140), a, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5431.921	40.97	54.00	-13.03	RMS	289	386	Horizontal
5452.976	55.79	74.00	-18.21	Peak	344	317	Vertical
5458.080	44.05	54.00	-9.95	RMS	356	266	Vertical
5567.147	53.51	68.20	-14.69	Peak	292	391	Horizontal
5699.736	59.69	68.20	-8.51	Peak	5	263	Vertical
6041.802	56.46	68.20	-11.74	Peak	356	267	Vertical
6098.446	51.51	68.20	-16.69	Peak	65	348	Horizontal

Table 1543 - 5825 MHz (CH165), a, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 20 dB of the limit.

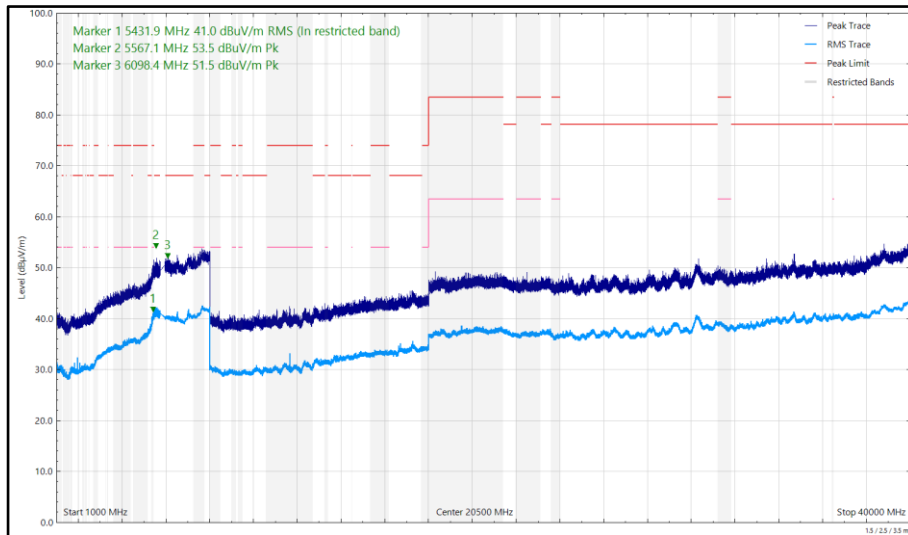


Figure 1136 - 5825 MHz (CH165), a, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

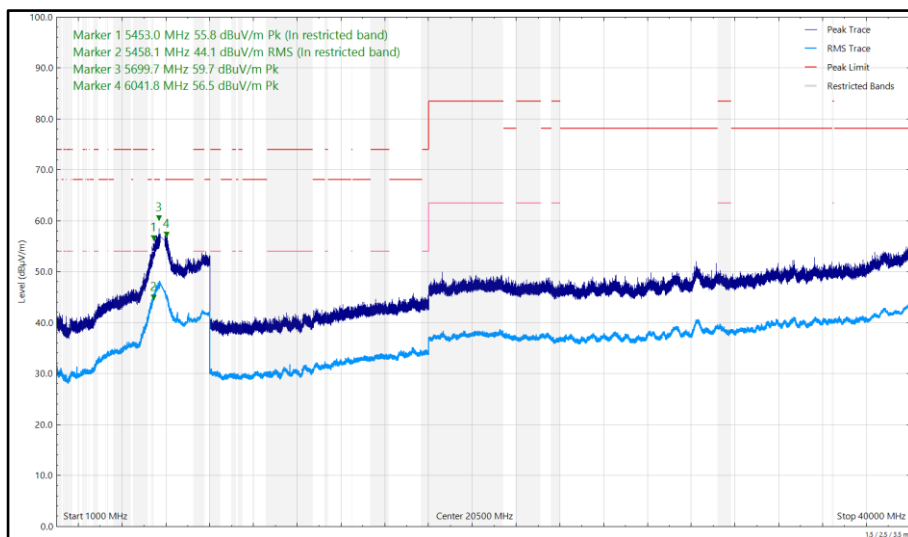


Figure 1137 - 5825 MHz (CH165), a, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
72.461	24.80	40.00	-15.20	Q-Peak	344	140	Vertical
73.564	20.70	40.00	-19.30	Q-Peak	350	356	Horizontal
106.178	17.92	43.50	-25.58	Q-Peak	337	100	Vertical
192.167	19.57	43.50	-23.93	Q-Peak	348	260	Horizontal
5060.001	54.07	74.00	-19.93	Peak	0	332	Vertical
5105.705	38.83	54.00	-15.17	RMS	63	399	Horizontal
5109.742	43.80	54.00	-10.20	RMS	0	324	Vertical
5378.692	39.80	54.00	-14.20	RMS	291	399	Horizontal
5392.302	43.81	54.00	-10.19	RMS	350	327	Vertical
5412.693	55.62	74.00	-18.38	Peak	346	326	Vertical
5462.559	52.20	68.20	-16.00	Peak	294	340	Horizontal
5465.577	55.29	68.20	-12.91	Peak	350	329	Vertical

Table 1544 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

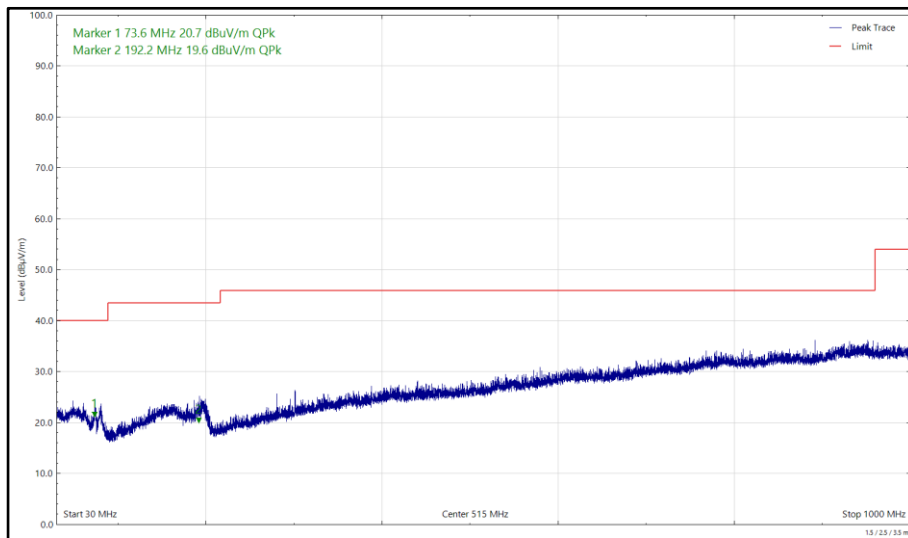


Figure 1138 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

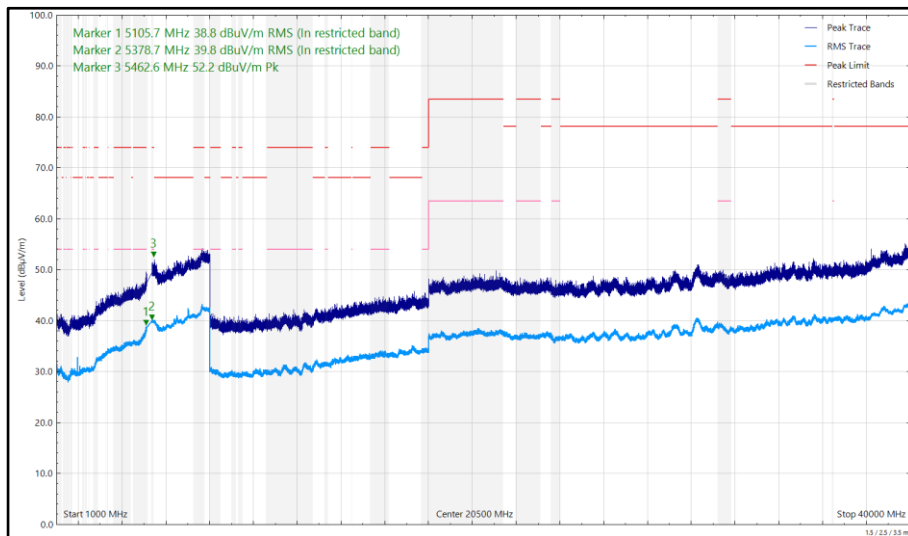


Figure 1139 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

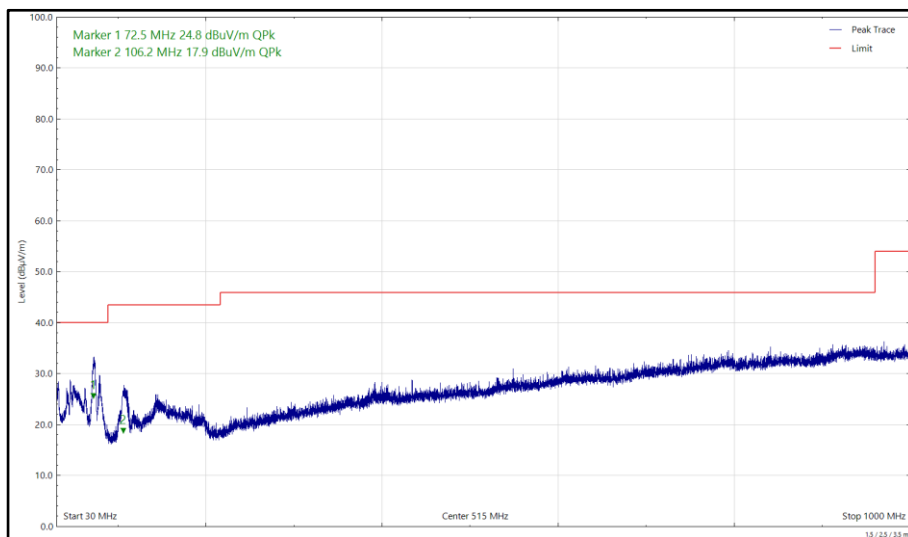


Figure 1140 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

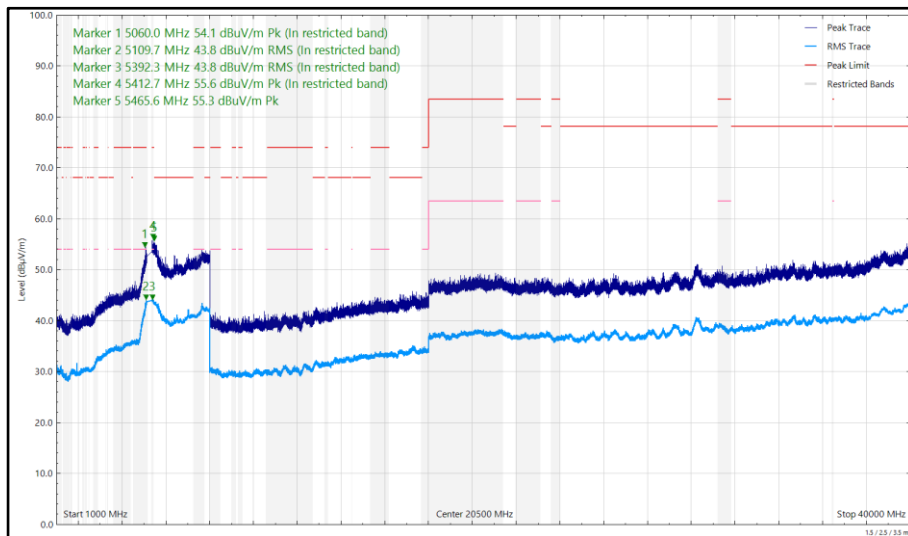


Figure 1141 - 5180 MHz (CH36), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5146.975	37.82	54.00	-16.18	RMS	55	316	Horizontal
5149.083	42.90	54.00	-11.10	RMS	0	335	Vertical
5390.549	41.00	54.00	-13.00	RMS	291	357	Horizontal
5392.511	45.55	54.00	-8.45	RMS	345	351	Vertical
5396.630	56.91	74.00	-17.09	Peak	0	349	Vertical
5463.017	56.86	68.20	-11.34	Peak	0	260	Vertical
5487.640	51.95	68.20	-16.25	Peak	297	400	Horizontal

Table 1545 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

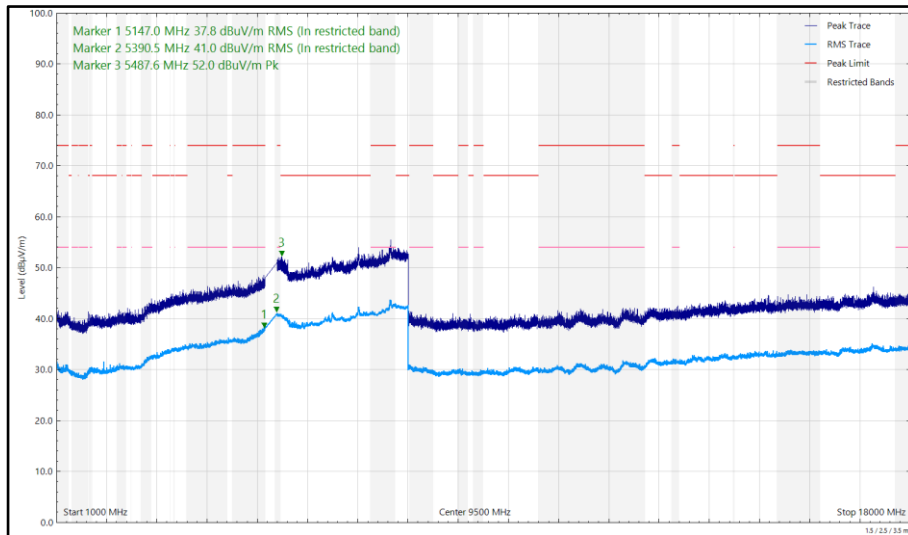


Figure 1142 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

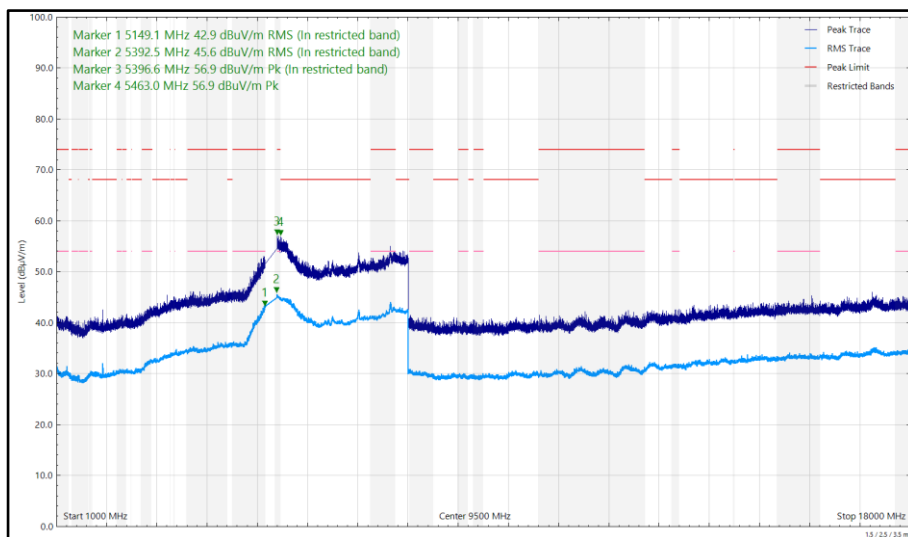


Figure 1143 - 5320 MHz (CH64), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5326.015	55.86	68.20	-12.34	Peak	356	361	Vertical
5345.727	51.18	68.20	-17.02	Peak	291	369	Horizontal
5402.201	45.26	54.00	-8.74	RMS	347	319	Vertical
5404.127	40.78	54.00	-13.22	RMS	293	344	Horizontal
5404.868	56.40	74.00	-17.60	Peak	3	325	Vertical
5730.842	56.11	68.20	-12.09	Peak	5	277	Vertical
5747.862	51.31	68.20	-16.89	Peak	294	390	Horizontal

Table 1546 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

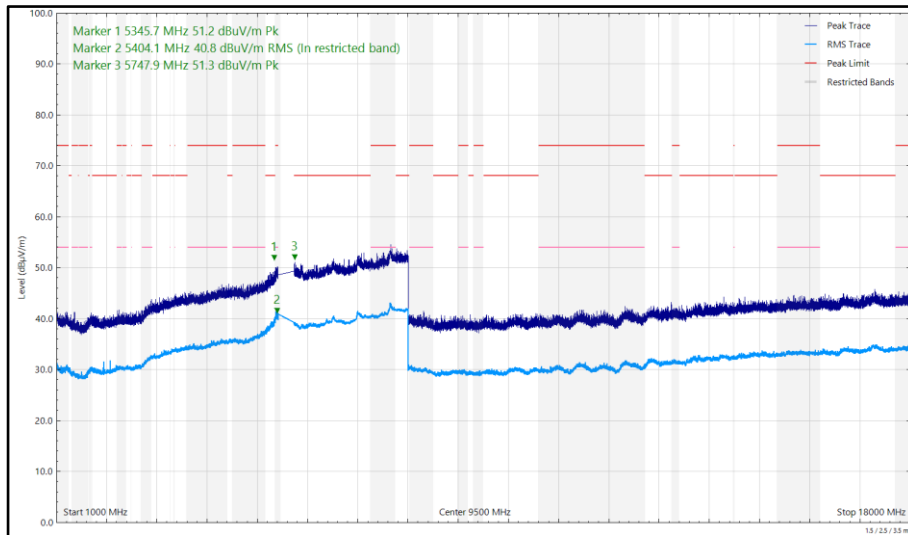


Figure 1144 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

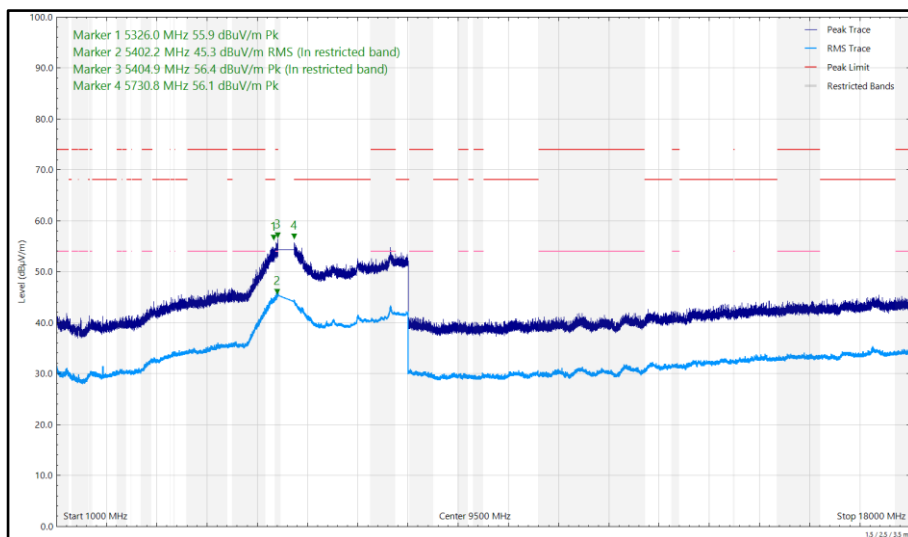


Figure 1145 - 5500 MHz (CH100), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5447.906	55.80	74.00	-18.20	Peak	0	333	Vertical
5457.754	45.19	54.00	-8.81	RMS	1	258	Vertical
5459.934	40.71	54.00	-13.29	RMS	290	400	Horizontal
5464.271	53.29	68.20	-14.91	Peak	294	366	Horizontal
5469.715	56.41	68.20	-11.79	Peak	0	306	Vertical
5765.441	52.51	68.20	-15.69	Peak	299	383	Horizontal
5772.500	58.97	68.20	-9.23	Peak	6	276	Vertical

Table 1547 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

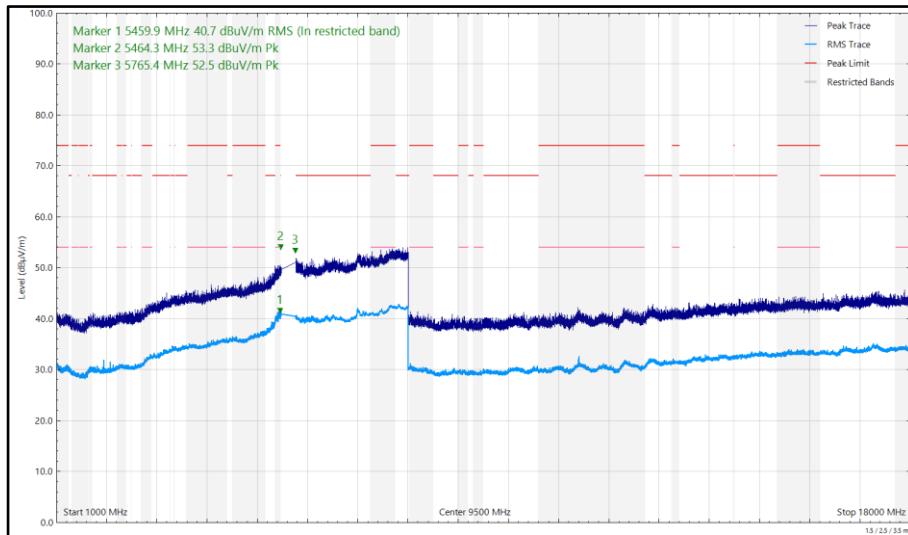


Figure 1146 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

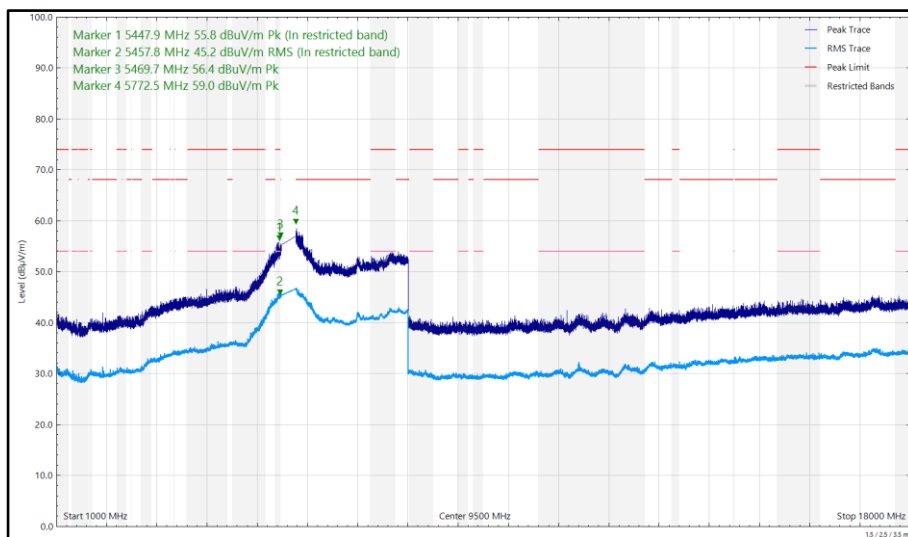


Figure 1147 - 5700 MHz (CH140), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5433.402	55.95	74.00	-18.05	Peak	350	353	Vertical
5458.657	45.15	54.00	-8.85	RMS	360	326	Vertical
5459.550	40.93	54.00	-13.07	RMS	289	360	Horizontal
5467.434	53.40	68.20	-14.80	Peak	294	365	Horizontal
5596.915	58.30	68.20	-9.90	Peak	3	283	Vertical
5867.313	57.34	68.20	-10.86	Peak	356	304	Vertical
5902.785	51.73	68.20	-16.47	Peak	302	318	Horizontal

Table 1548 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

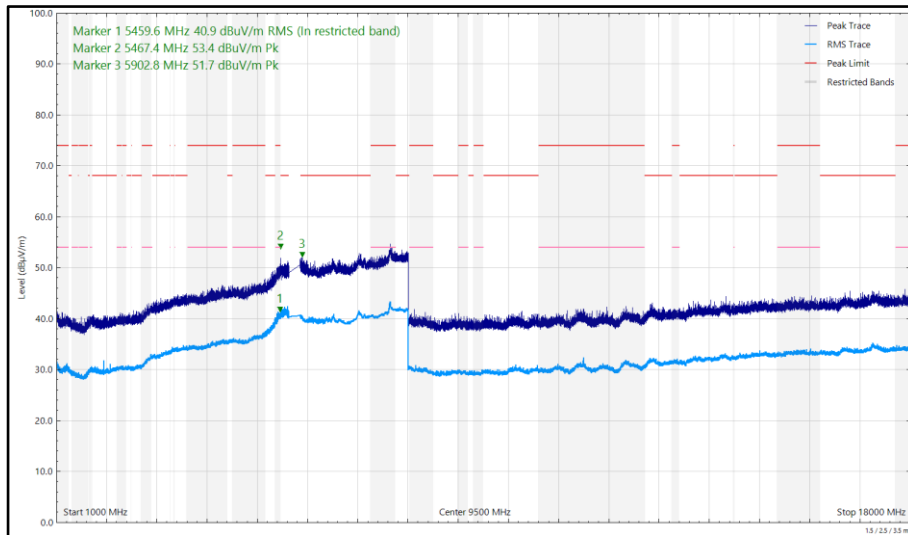


Figure 1148 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

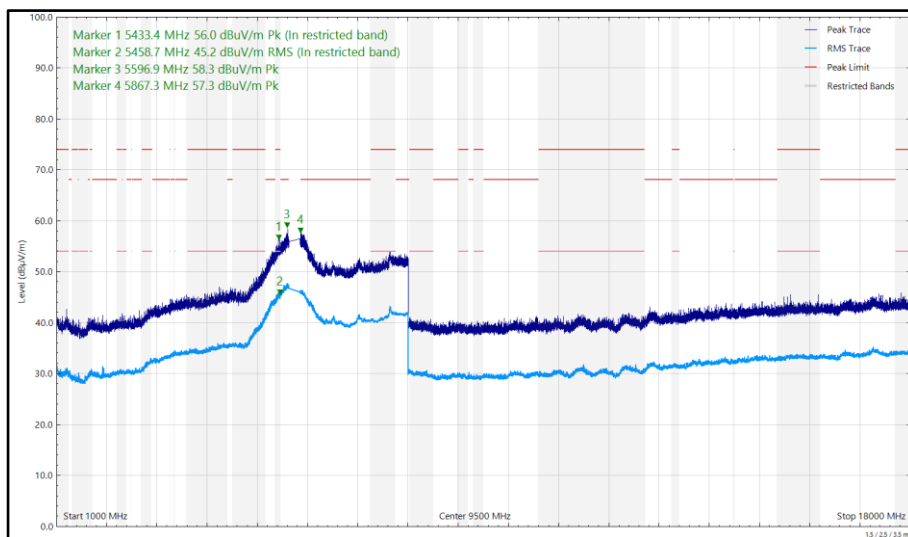


Figure 1149 - 5745 MHz (CH149), HT20, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.413	29.01	40.00	-10.99	Q-Peak	360	108	Vertical
73.468	20.83	40.00	-19.17	Q-Peak	349	387	Horizontal
116.852	19.21	43.50	-24.29	Q-Peak	292	102	Vertical
142.905	20.98	43.50	-22.52	Q-Peak	240	330	Vertical
156.842	21.66	43.50	-21.84	Q-Peak	357	382	Horizontal
169.793	21.49	43.50	-22.01	Q-Peak	209	184	Vertical
190.528	19.50	43.50	-24.00	Q-Peak	150	250	Horizontal
5438.068	55.64	74.00	-18.36	Peak	0	330	Vertical
5444.356	40.61	54.00	-13.39	RMS	293	394	Horizontal
5458.313	44.95	54.00	-9.05	RMS	0	258	Vertical
5568.722	53.21	68.20	-14.99	Peak	292	376	Horizontal
5708.292	58.08	68.20	-10.12	Peak	0	236	Vertical
5964.010	57.73	68.20	-10.47	Peak	352	245	Vertical
6084.700	51.65	68.20	-16.55	Peak	68	341	Horizontal

Table 1549 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

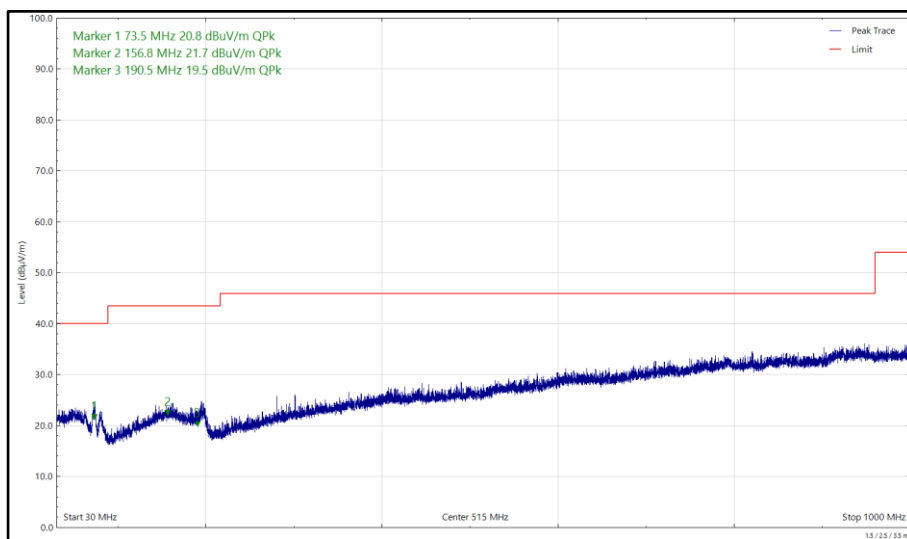


Figure 1150 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

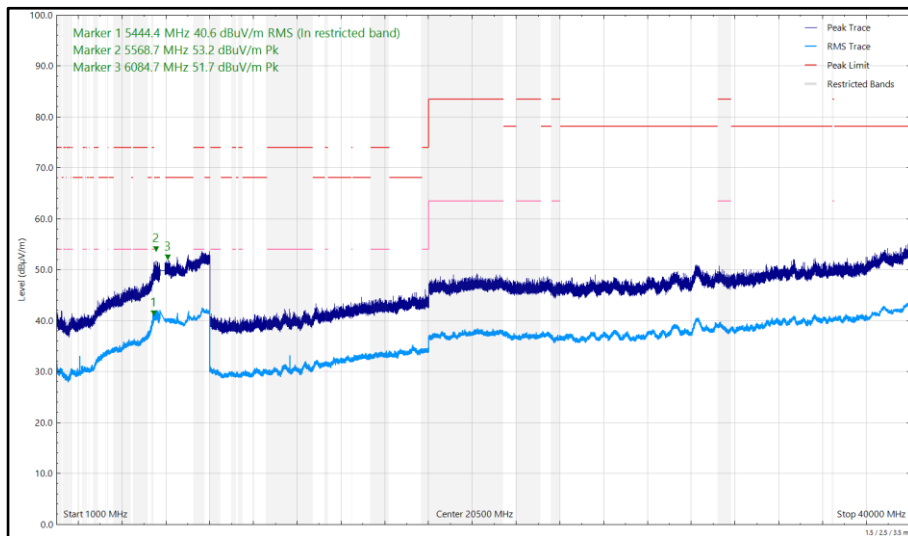


Figure 1151 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

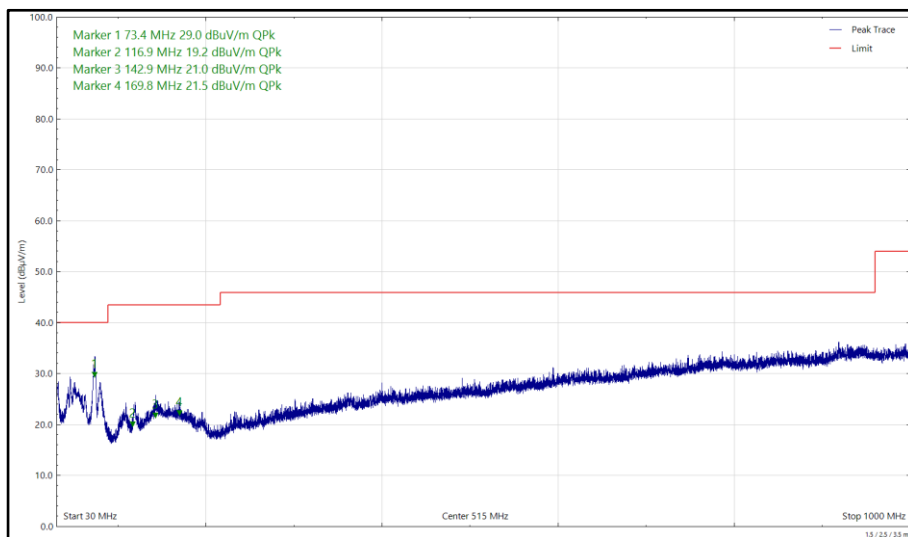


Figure 1152 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

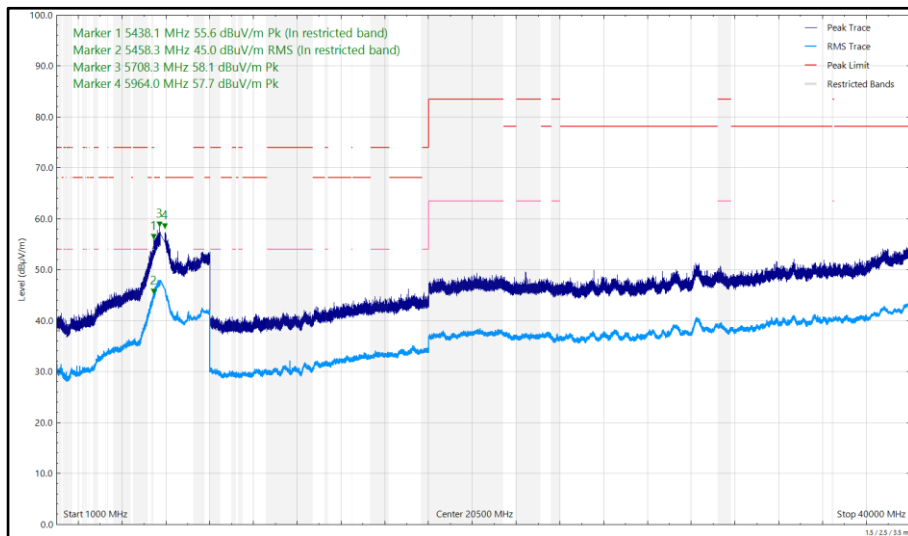


Figure 1153 - 5825 MHz (CH165), HT20, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.136	29.04	40.00	-10.96	Q-Peak	360	110	Vertical
73.589	20.57	40.00	-19.43	Q-Peak	350	398	Horizontal
145.886	21.29	43.50	-22.21	Q-Peak	303	383	Vertical
149.993	21.25	43.50	-22.25	Q-Peak	345	398	Horizontal
278.314	20.61	46.00	-25.39	Q-Peak	339	109	Horizontal
5107.398	37.16	54.00	-16.84	RMS	284	293	Horizontal
5107.643	41.95	54.00	-12.05	RMS	8	345	Vertical
5352.997	54.29	74.00	-19.71	Peak	360	236	Vertical
5355.565	44.08	54.00	-9.92	RMS	358	340	Vertical
5429.001	40.14	54.00	-13.86	RMS	292	373	Horizontal
5482.006	51.76	68.20	-16.44	Peak	290	346	Horizontal
5495.563	55.65	68.20	-12.55	Peak	3	258	Vertical

Table 1550 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

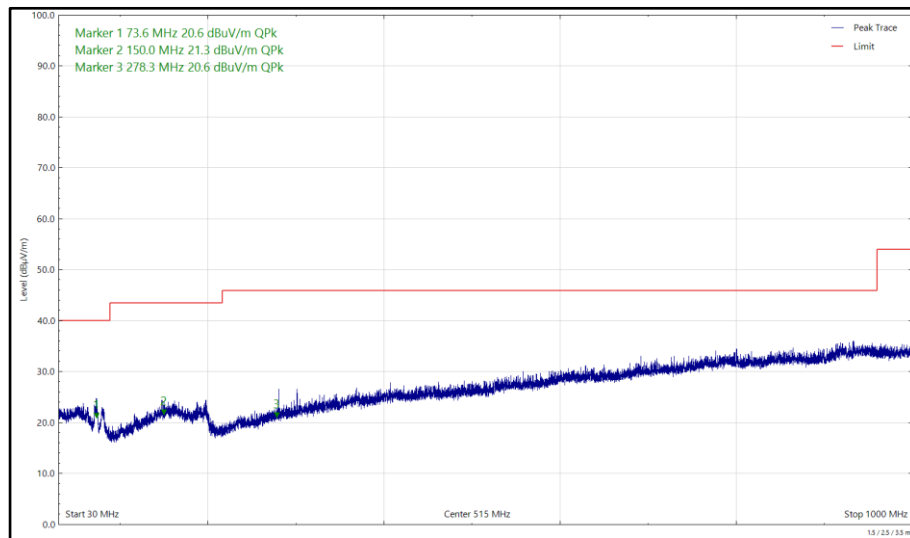


Figure 1154 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

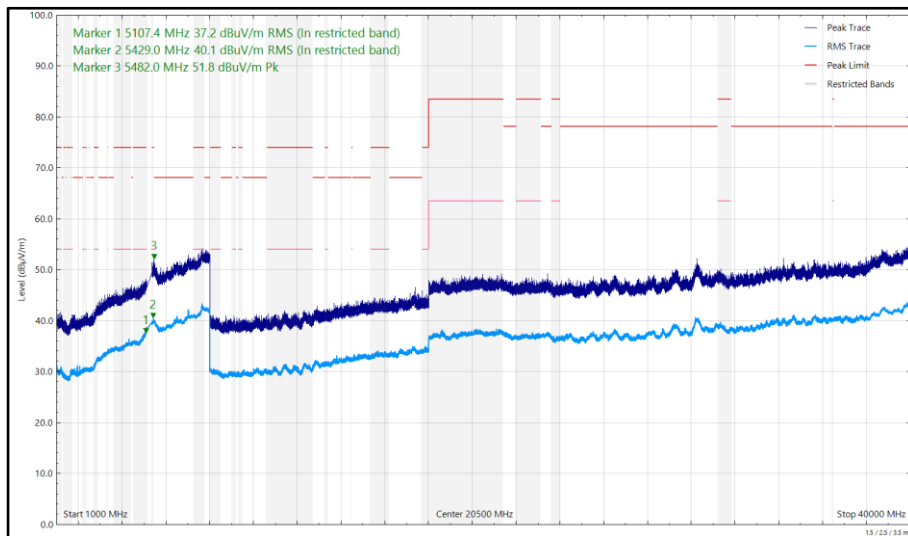


Figure 1155 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

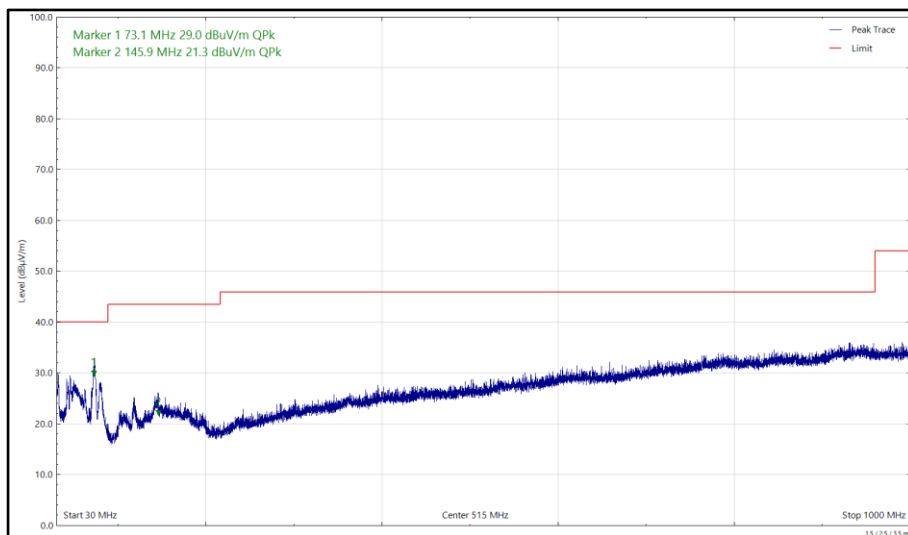


Figure 1156 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

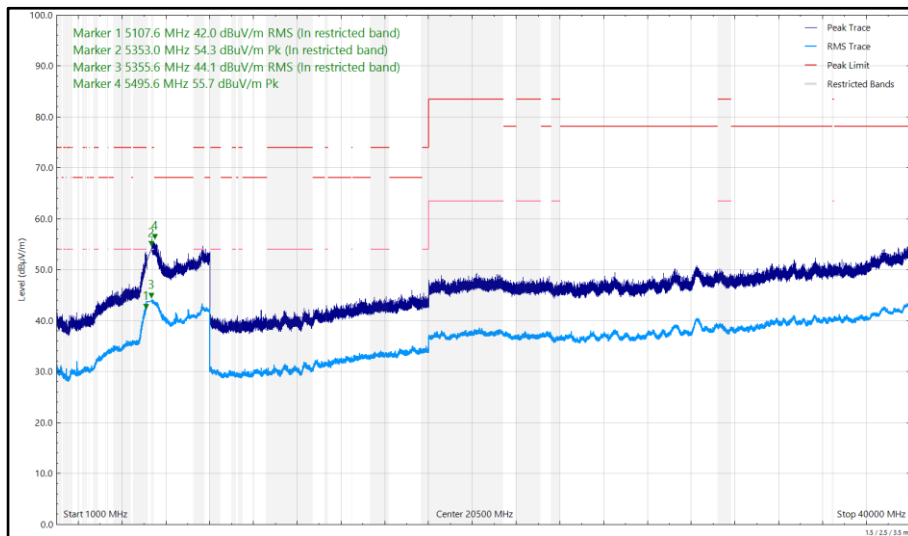


Figure 1157 - 5180 MHz (CH36), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5453.626	55.68	74.00	-18.32	Peak	350	273	Vertical
5457.924	40.35	54.00	-13.65	RMS	297	370	Horizontal
5459.006	44.70	54.00	-9.30	RMS	0	310	Vertical
5462.962	56.53	68.20	-11.67	Peak	8	335	Vertical
5464.441	52.35	68.20	-15.85	Peak	296	389	Horizontal
5767.552	58.23	68.20	-9.97	Peak	0	297	Vertical
5808.208	49.96	68.20	-18.24	Peak	85	346	Horizontal

Table 1551 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

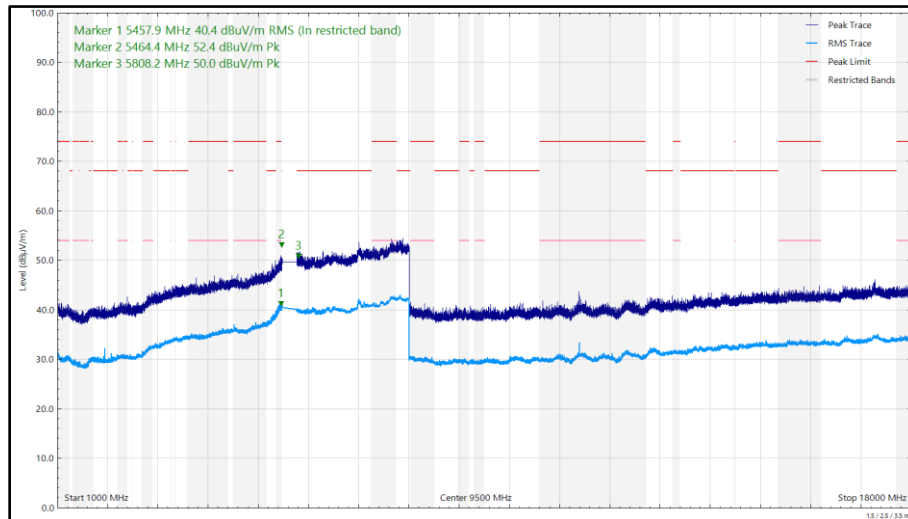


Figure 1158 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

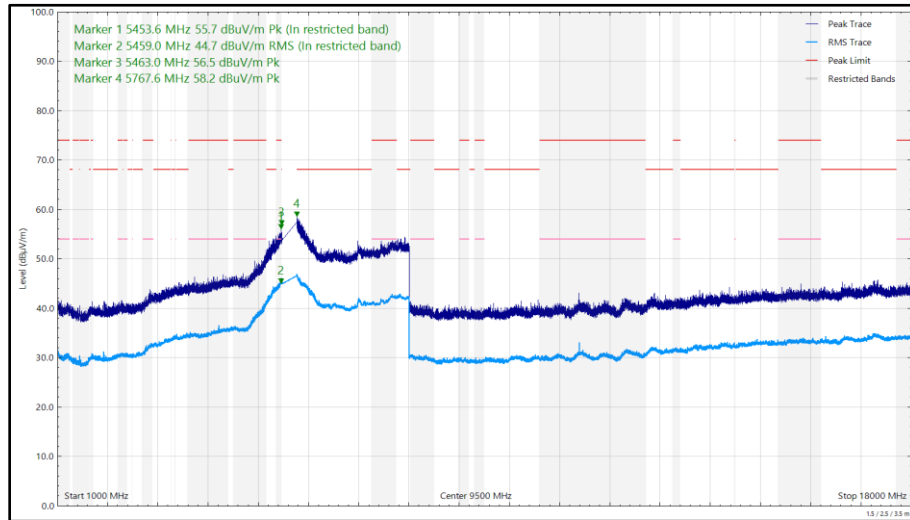


Figure 1159 - 5700 MHz (CH140), HE20, RU52-37, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
73.035	29.03	40.00	-10.97	Q-Peak	359	113	Vertical
83.908	17.62	40.00	-22.38	Q-Peak	155	397	Horizontal
117.648	18.85	43.50	-24.65	Q-Peak	291	393	Vertical
146.991	21.43	43.50	-22.07	Q-Peak	249	226	Vertical
169.138	21.47	43.50	-22.03	Q-Peak	359	314	Horizontal
5441.551	55.67	74.00	-18.33	Peak	360	240	Vertical
5458.816	43.96	54.00	-10.04	RMS	359	335	Vertical
5459.561	39.64	54.00	-14.36	RMS	296	360	Horizontal
5573.720	58.18	68.20	-10.02	Peak	360	318	Vertical
5580.857	52.68	68.20	-15.52	Peak	289	380	Horizontal
5959.337	57.03	68.20	-11.17	Peak	0	289	Vertical
5972.711	51.69	68.20	-16.51	Peak	75	348	Horizontal
11632.451	33.84	54.00	-20.16	RMS	293	249	Vertical
11632.751	35.83	54.00	-18.17	RMS	265	322	Horizontal

Table 1552 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 20 dB of the limit.

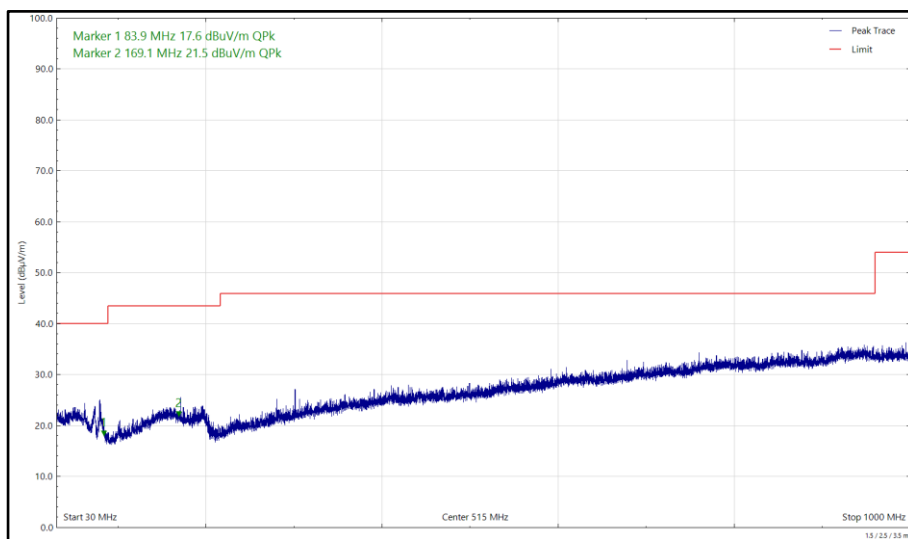


Figure 1160 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

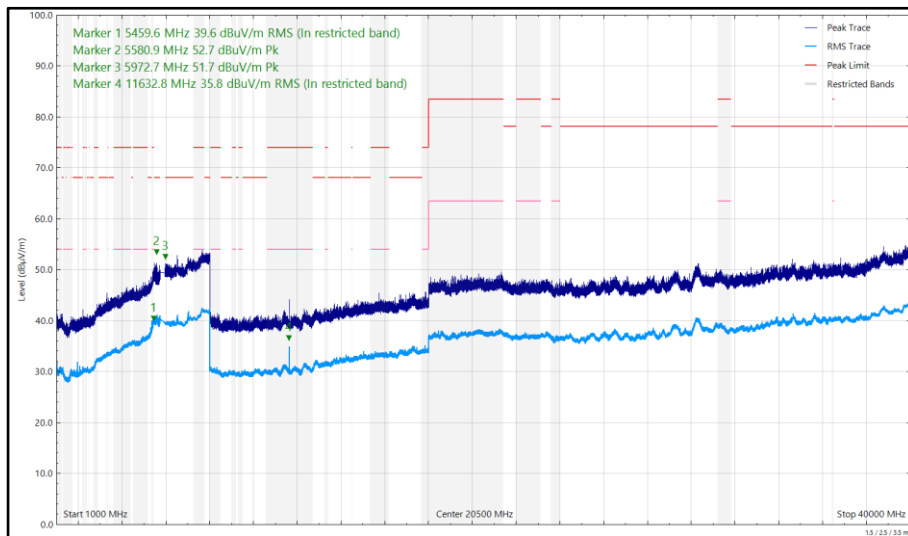


Figure 1161 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

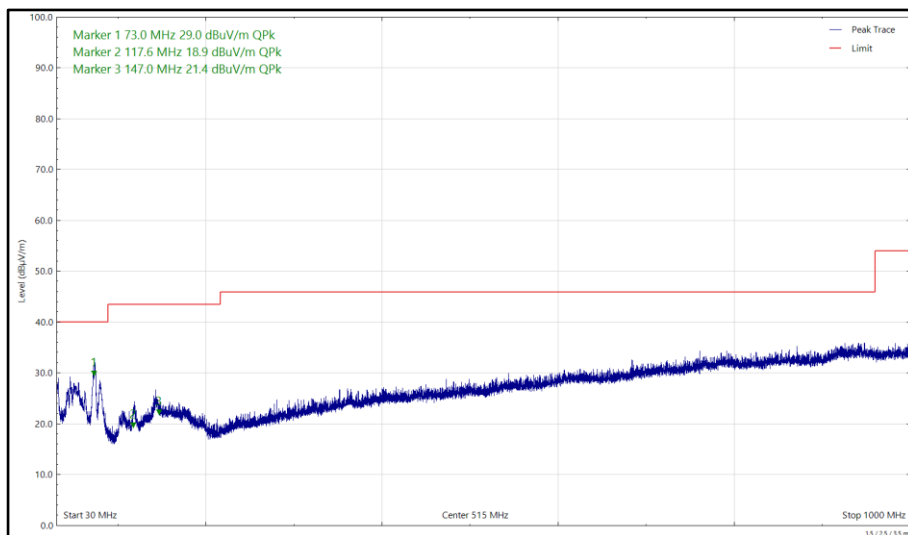


Figure 1162 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

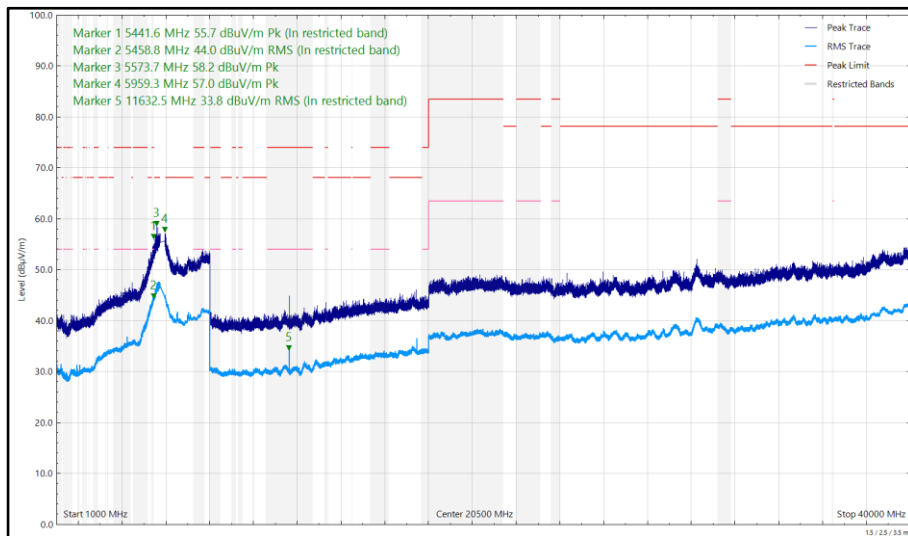


Figure 1163 - 5825 MHz (CH165), HE20, RU26-0, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5419.764	54.67	74.00	-19.33	Peak	358	344	Vertical
5433.801	40.81	54.00	-13.19	RMS	291	371	Horizontal
5458.361	44.60	54.00	-9.40	RMS	0	329	Vertical
5600.112	52.79	68.20	-15.41	Peak	296	390	Horizontal
5690.678	58.51	68.20	-9.69	Peak	2	272	Vertical
5964.242	57.96	68.20	-10.24	Peak	350	253	Vertical
5974.522	52.37	68.20	-15.83	Peak	75	355	Horizontal

Table 1553 - 5825 MHz (CH165), EHT20, RU106+26-82, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

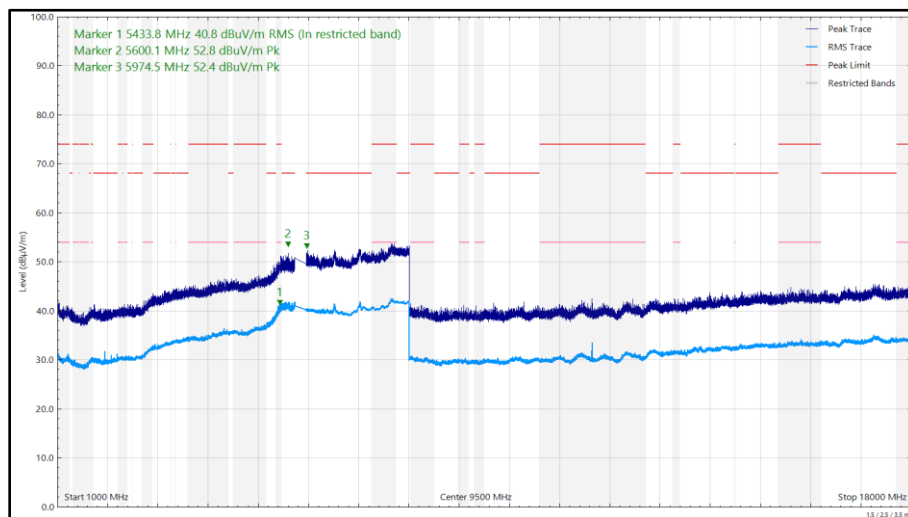


Figure 1164 - 5825 MHz (CH165), EHT20, RU106+26-82, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

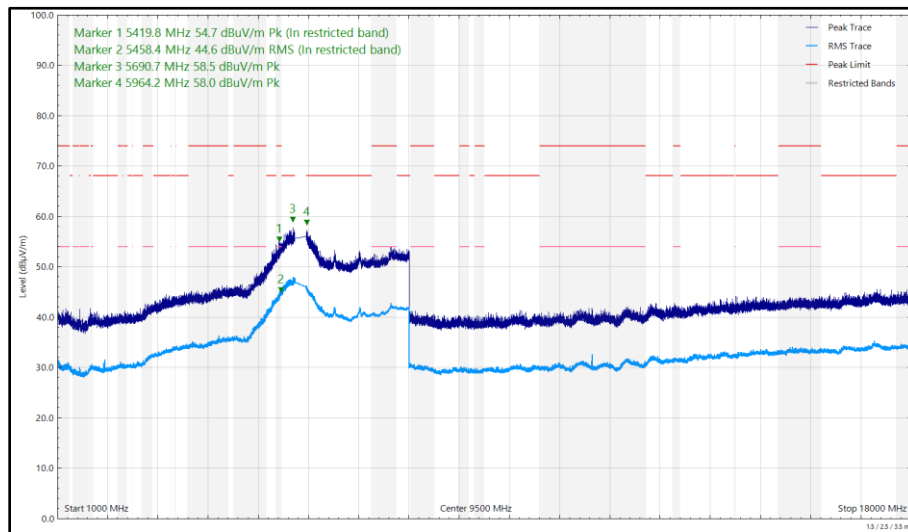


Figure 1165 - 5825 MHz (CH165), EHT20, RU106+26-82, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
5146.727	37.03	54.00	-16.97	RMS	68	391	Horizontal
5149.152	41.79	54.00	-12.21	RMS	360	322	Vertical
5250.559	55.35	68.20	-12.85	Peak	0	326	Vertical
5266.993	50.23	68.20	-17.97	Peak	55	400	Horizontal
5962.726	53.78	68.20	-14.42	Peak	0	279	Vertical
5977.668	49.29	68.20	-18.91	Peak	274	110	Horizontal

Table 1554 - 5570 MHz (CH114), EHT160, RU52+26-80S, CDD, Core 0 + Core 1, 1 to 18 GHz

No other emissions found within 20 dB of the limit.

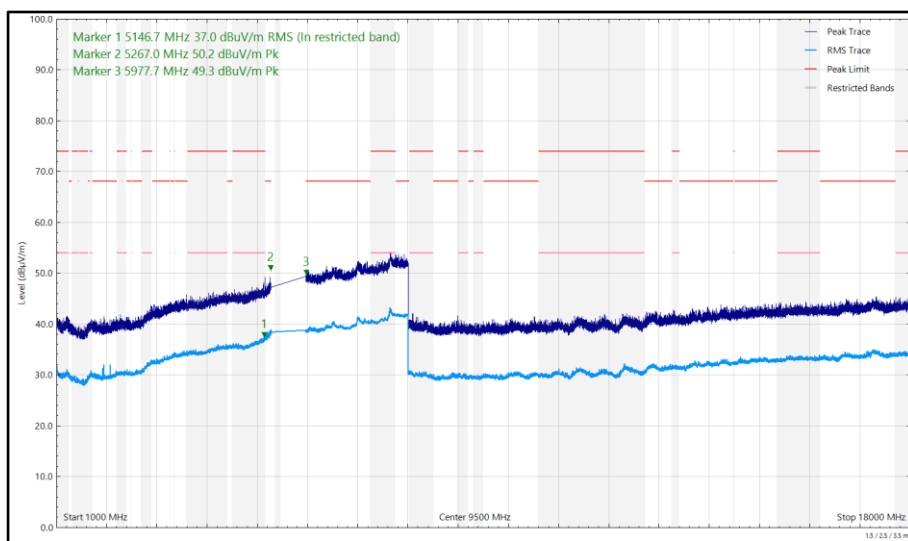


Figure 1166 - 5570 MHz (CH114), EHT160, RU52+26-80S, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

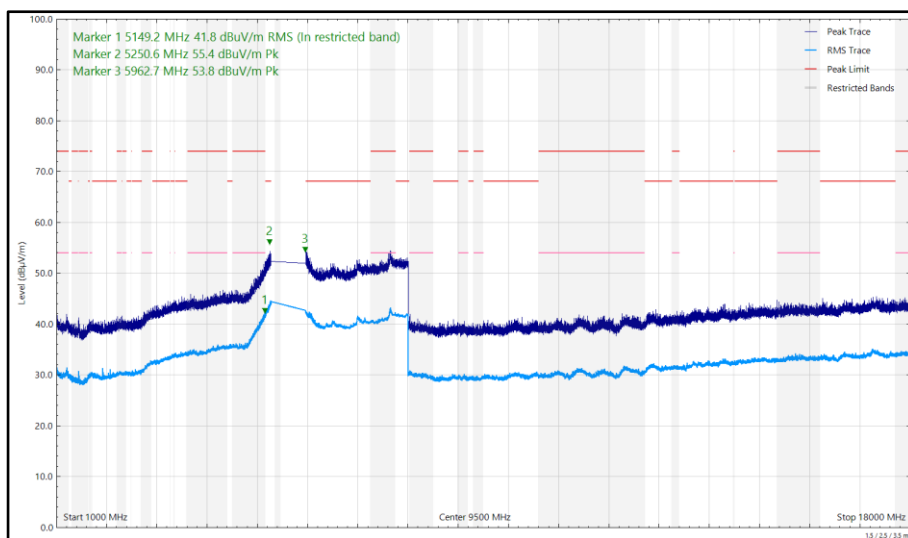


Figure 1167 - 5570 MHz (CH114), EHT160, RU52+26-80S, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4946.072	36.39	54.00	-17.61	RMS	0	110	Horizontal
4955.546	38.13	54.00	-15.87	RMS	8	314	Vertical
5553.970	52.77	68.20	-15.43	Peak	4	376	Vertical
5887.486	50.93	68.20	-17.27	Peak	276	275	Horizontal

Table 1555 - 5250 MHz (CH50), EHT160, RU996+484+242-96P, CDD, Core 0 + Core 1, 1 GHz to 18 GHz

No other emissions found within 20 dB of the limit.

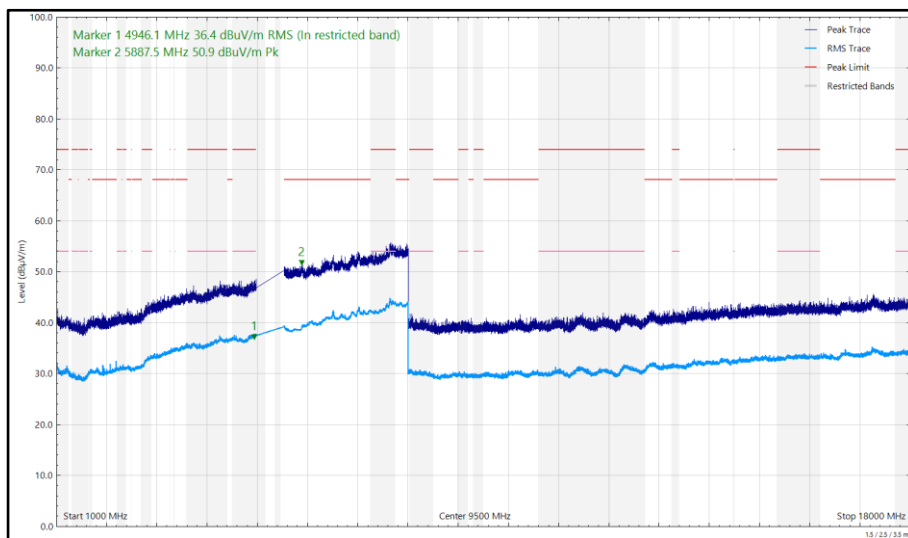


Figure 1168 - 5250 MHz (CH50), EHT160, RU996+484+242-96P, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal

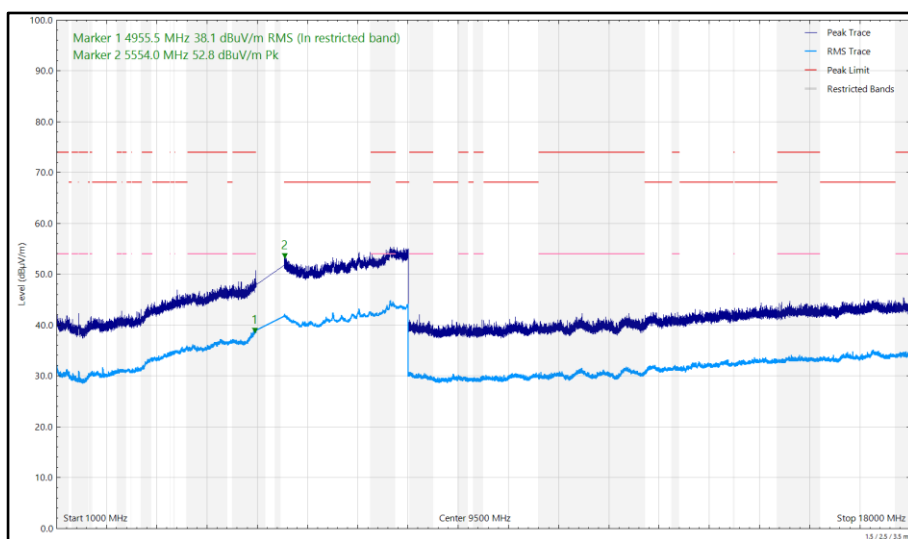


Figure 1169 - 5250 MHz (CH50), EHT160, RU996+484+242-96P, CDD, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical



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 1556 - Radiated Emissions Limit Table (FCC)



ISED RSS-247, Limit Clause 7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4 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 falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$) at 3m	Field Strength Limit (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 1557 - Radiated Emissions Limit Table (ISED)



2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15 and RF Chamber 16.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.5.5	5125	-	TU
Test Receiver	Rohde & Schwarz	ESW44	5914	12	17-Jun-2026
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5937	12	12-Jun-2026
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5940	12	18-May-2026
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	TU
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	TU
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	Albatross Projects	RF Chamber 15	5963	36	23-Apr-2028
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
3m Semi-Anechoic Chamber, Chamber 16	Albatross Projects	RF Chamber 16	5972	36	07-May-2028
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	14-Sep-2026
Digital Multimeter	Fluke	115	6145	12	06-Jun-2026
Digital Multimeter	Fluke	115	6146	12	05-Jun-2026
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6189	24	26-Sep-2026
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	20-Dec-2025
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	23-Apr-2026
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	09-Jun-2026
Attenuator 4dB	Pasternack	PE7074-4	6204	24	13-Mar-2027
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	23-Apr-2026
USB Spectrum Analyser	Signal Hound	SA124B	6297	-	TU
USB Spectrum Analyser	Signal Hound	SA124B	6383	-	TU
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6456	24	13-Mar-2027
Humidity and Temperature Meter	R.S Components	1364	6486	12	01-Jul-2026
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	27-Apr-2026
1m Cable	Junkosha	MWX241-	6741	12	27-Apr-2026



		01000AMSAMS/B			
6.5m Cable	Junkosha	MWX221-06500AMSAMS/B	6744	12	27-Apr-2026
8m Cable	Junkosha	MWX221-08000AMSAMS/B	6748	12	27-Apr-2026
EMI Test Receiver	Rohde & Schwarz	ESW44	6805	12	24-Jul-2026
1M SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6831	12	18-Aug-2026
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	18-Aug-2026
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6834	12	18-Aug-2026
Handheld Hygrometer	Fluke	971	6837	12	16-Sep-2026
8m SMA-Type Cable	Junkosha	MWX221-08000AMSAMS/B	6849	12	06-Nov-2026
Cable Assembly	SpecTech	PE300-60	6856	-	TU
Cable Assembly	SpecTech	PE300-60	6858	-	TU
Cable Assembly	SpecTech	PE300-60	6862	-	TU
Cable Assembly	SpecTech	PE300-60	6864	-	TU
Cable Assembly	SpecTech	PE300-60	6868	-	TU
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6976	12	05-Apr-2026
RF Amplifier BROADBAND AMPL/SMA/RoHS	Mini-Circuits	ZX60-83LN12+	6978	12	05-Apr-2026

Table 1558

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 7.3.6.3(c)(d)(e)

2.7.2 Equipment Under Test and Modification State

A3427, S/N: FCMYH4N7H9 - Modification State 0
A3427, S/N: FTG4DY0KGJ - Modification State 0

2.7.3 Date of Test

17-January-2026

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	22.2 - 24.2 °C
Relative Humidity	41.1 - 52.2 %

2.7.6 Test Results

5 GHz WLAN

The equipment under test was a Client without Radar Detection.
This test was performed in the following mode of operation: 802.11ax HE160.

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 companion device, the companion device was replaced by the spectrum analyser and the output of the PXI RF generator adjusted to give - 62 dBm.

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

Table 1559 - Radar Pulse Type 0 Characteristics

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

Table 1560 - Details of Master Device used to support testing

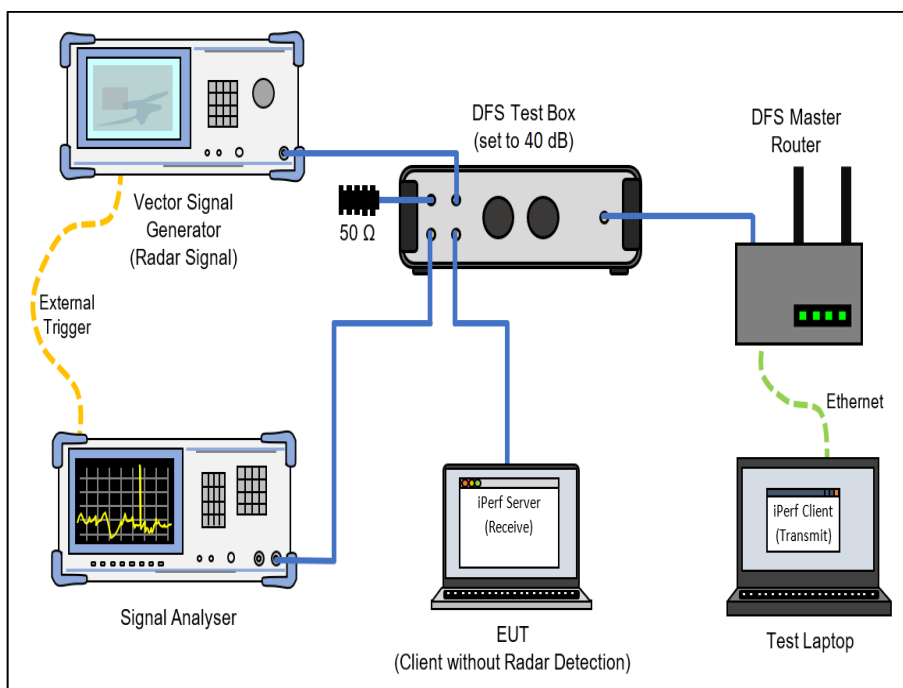


Figure 1170 - Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master

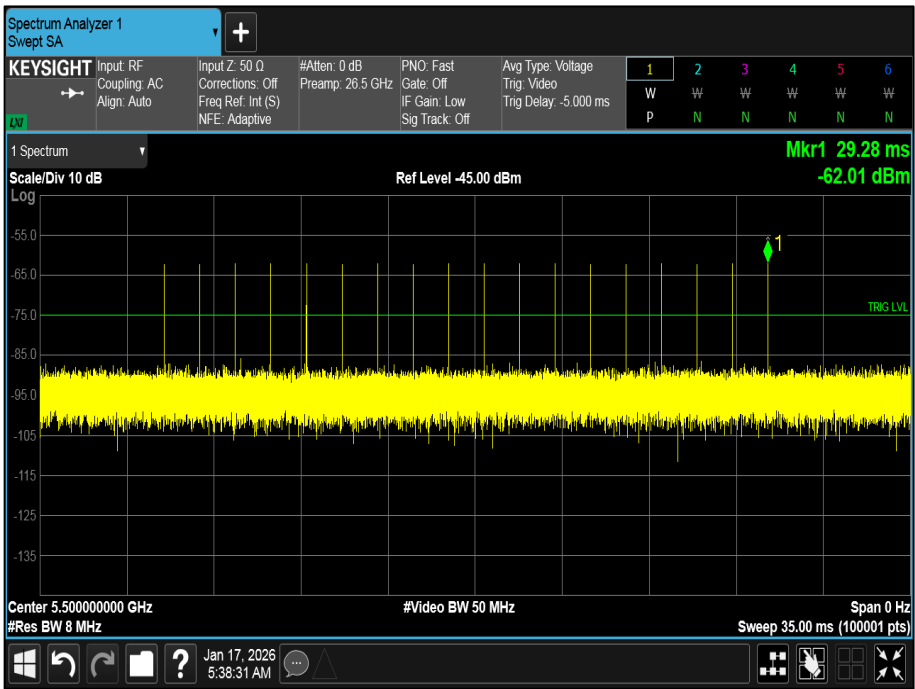


Figure 1171 - Verification of Radar Type 0

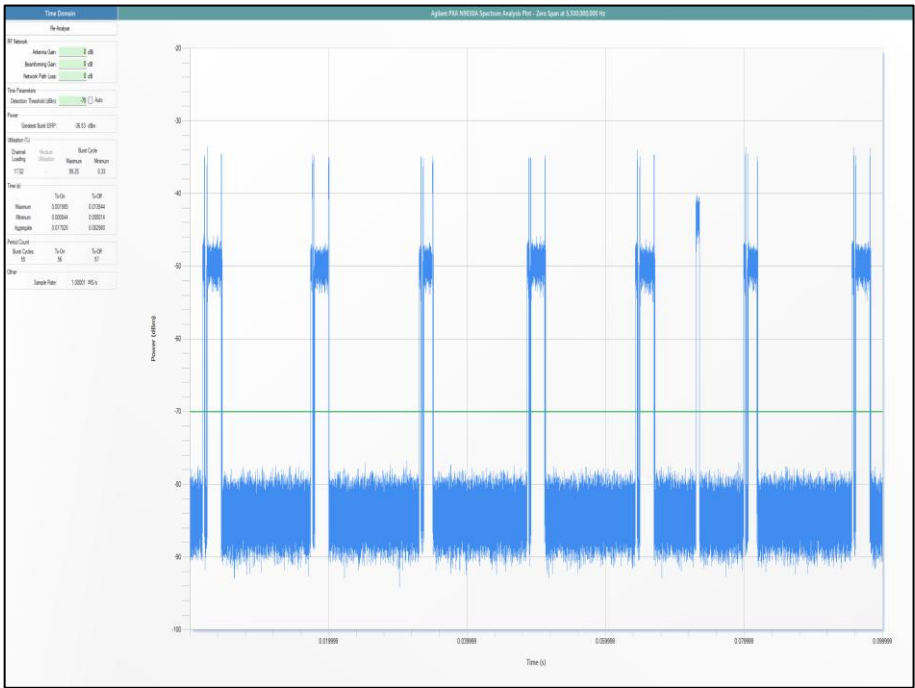


Figure 1172 - Channel Loading

The channel loading was 17.02%



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 1561 - DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Test Parameter	Result
Test Channel	CH114 (5570MHz), Control CH100 (5500 MHz)
Channel Move Time	0.932 secs
Channel Closing Time (Aggregate Time During 200 ms)	5.760 ms
Channel Closing Time (Aggregate Time During 200 ms to 10 s)	7.440 ms
Channel Closing Time (Aggregate Time During 10 s)	13.200 ms
Transmission Observed During Non-Occupancy Period	No

Table 1562 - In-Service Monitoring Test Results

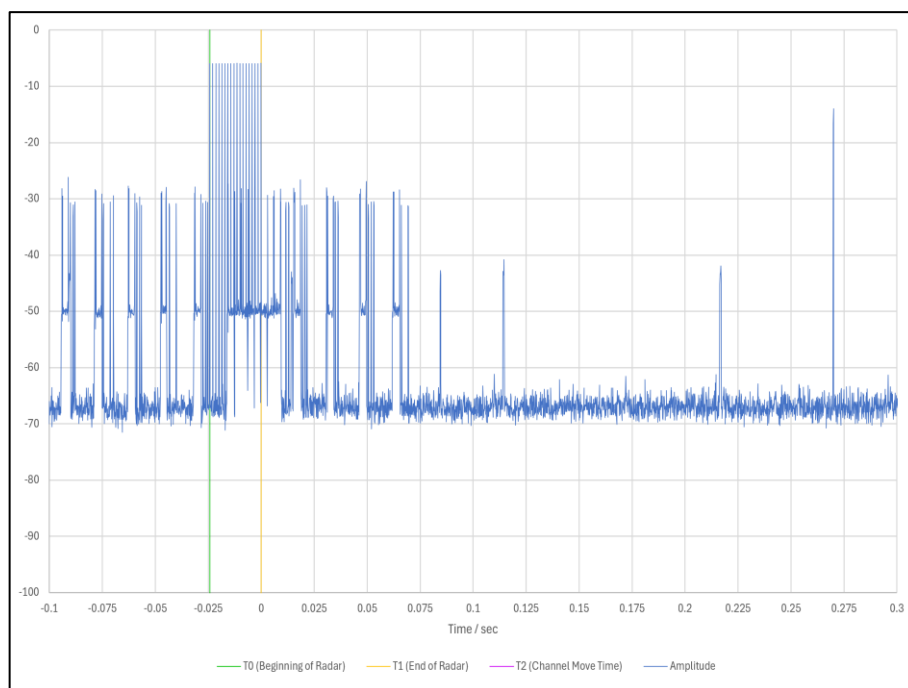


Figure 1173 - First 200 ms of Channel Shutdown Period

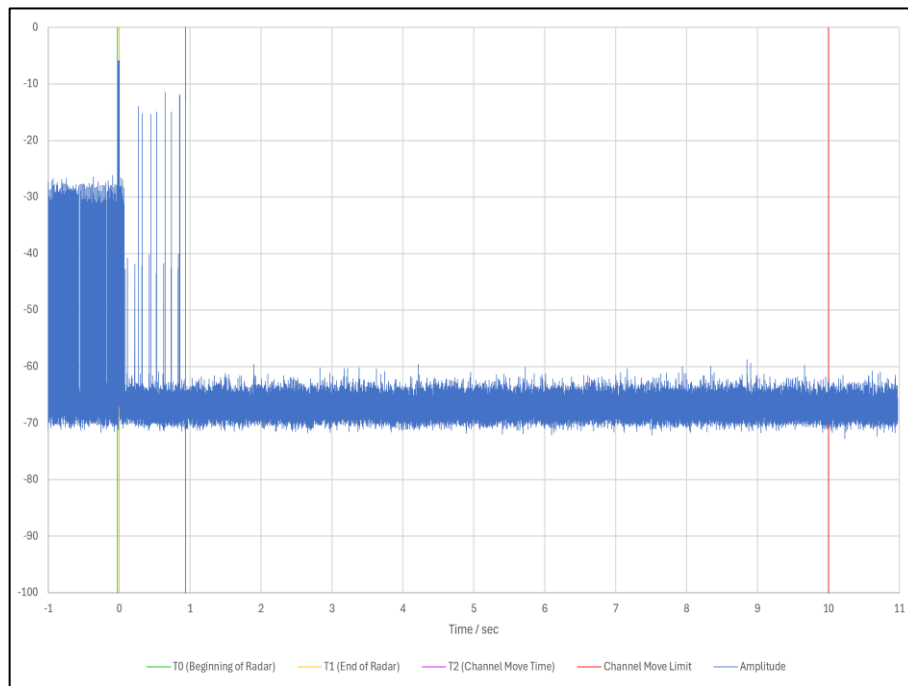


Figure 1174 - First 12 s of Channel Shutdown Period

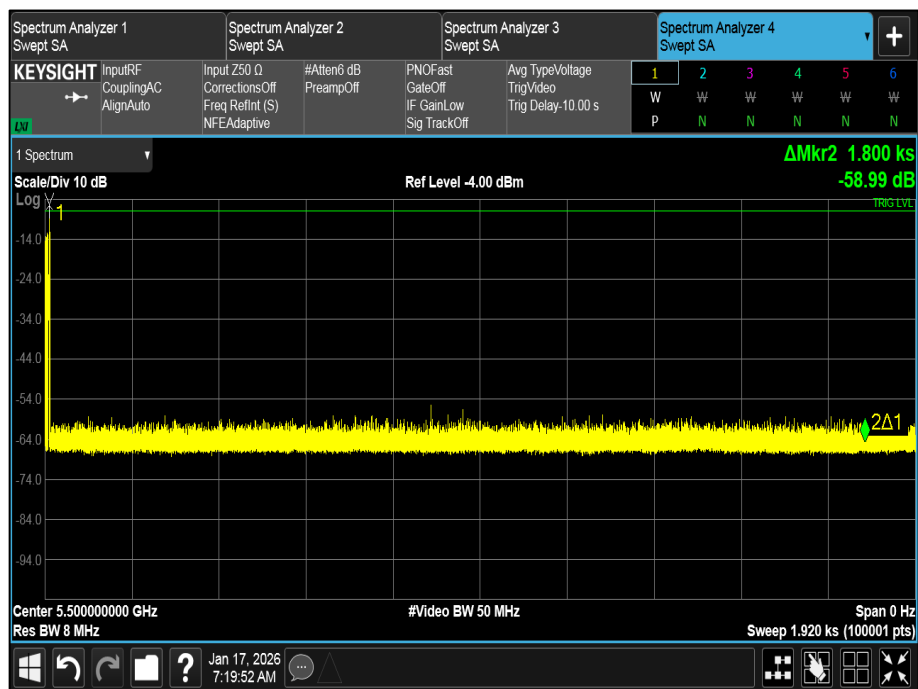


Figure 1175 - 30 minute Non-Occupancy Period

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 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 companion device, the companion device was replaced by the spectrum analyser and the output of the PXI RF generator adjusted to give - 62 dBm.

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

Table 1563 - Radar Pulse Type 0 Characteristics

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

Table 1564 - Details of Master Device used to support testing

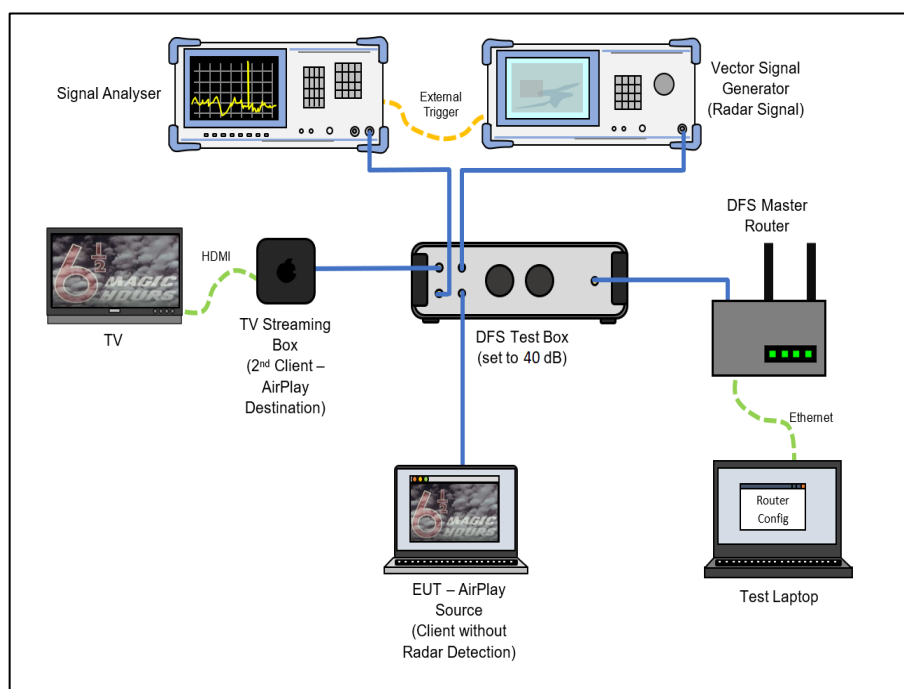


Figure 1176 - Test Equipment Setup Diagram for Client without Radar Detection with Injection at the Master



Figure 1177 - Verification of Radar Type 0

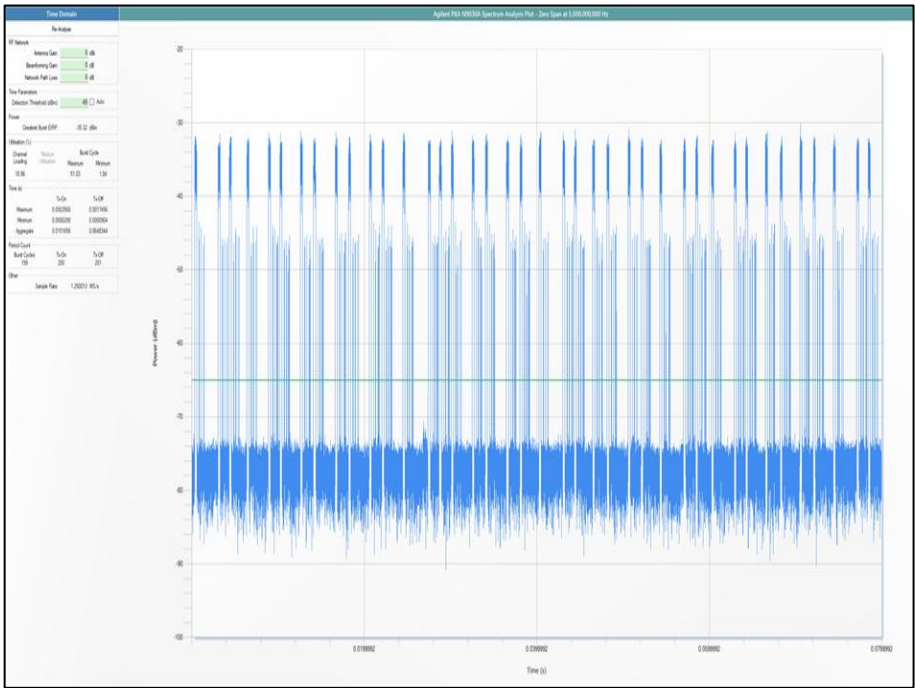


Figure 1178 - Channel Loading

The channel loading was 18.96%

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 1565 - 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	0.048 secs
Channel Closing Time (Aggregate Time During 200 ms)	7.680 ms
Channel Closing Time (Aggregate Time During 200 ms to 10 s)	0.000 ms
Channel Closing Time (Aggregate Time During 10 s)	7.680 ms
Transmission Observed During Non-Occupancy Period	No

Table 1566 - In-Service Monitoring Test Results

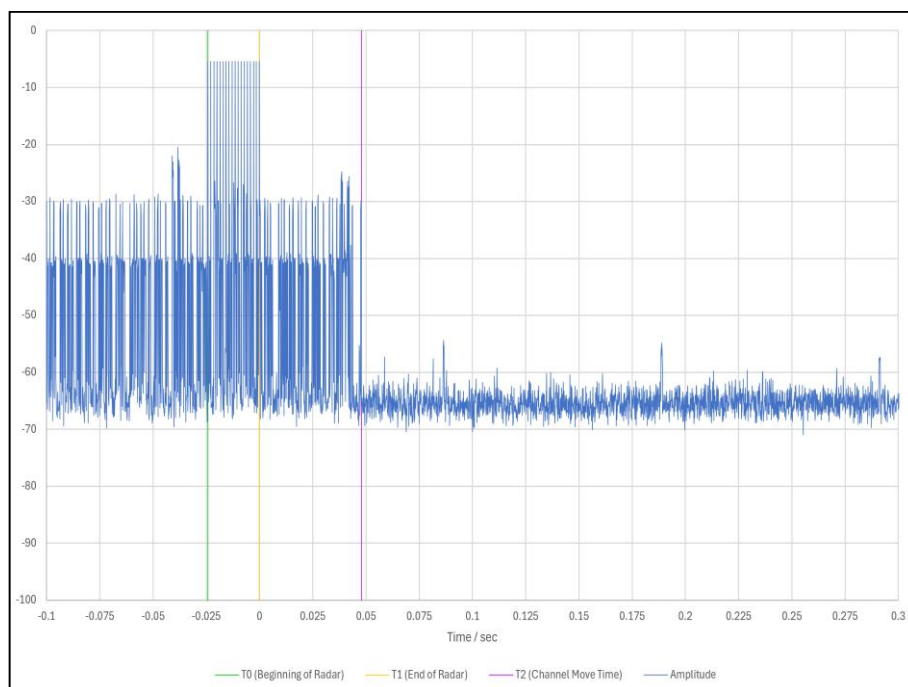


Figure 1179 - First 200 ms of Channel Shutdown Period

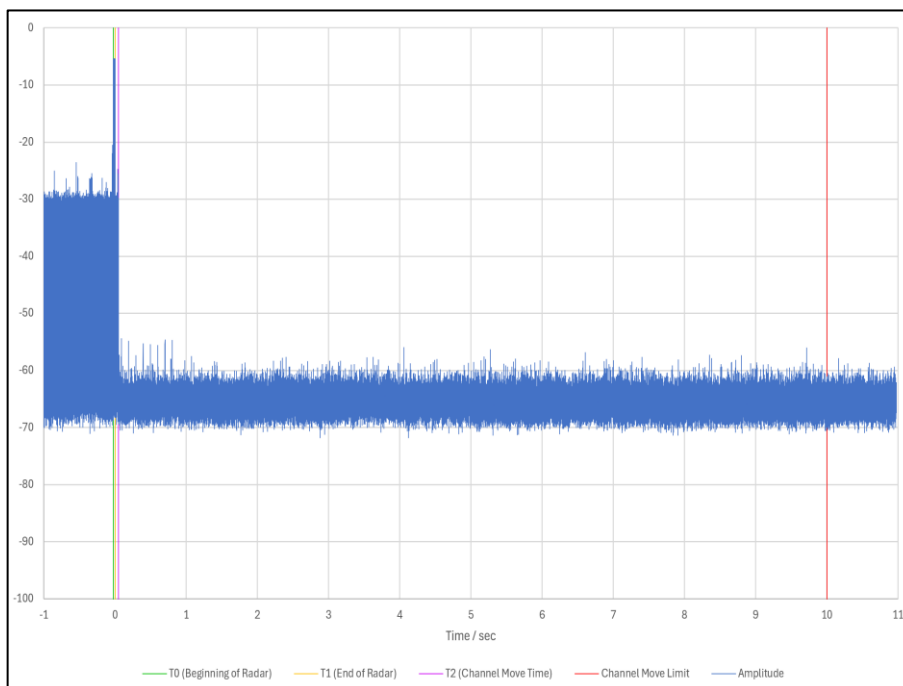


Figure 1180 - First 12 s of Channel Shutdown Period

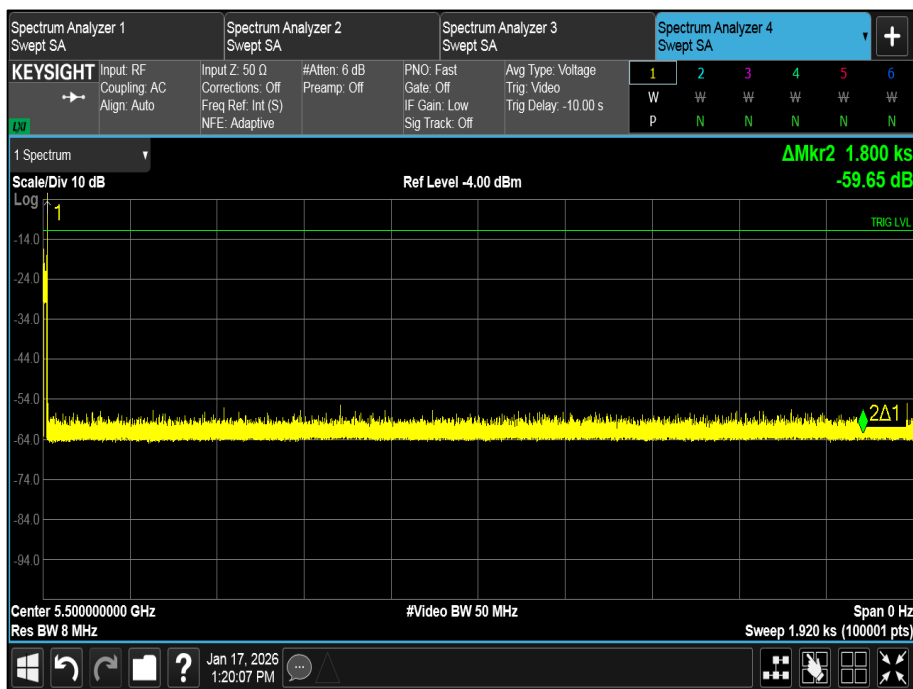


Figure 1181 - 30 minute Non-Occupancy Period



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 1567 - 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
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Table 1568 - Non-Occupancy Limit

ISED RSS-247, Limit Clause 7.3.6.3

Devices shall comply with the following requirements, however, client devices without radar detection are only required to comply with the channel move time in c) and channel closing transmission time in d).

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

The aggregate of all transmissions shall not count quiet periods between transmissions.

- e) 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
Power splitter - 2 port	Mini-Circuits	ZN2PD-63-S+	4743	12	31-Aug-2026
EXA Signal Analyser	Keysight Technologies	N9010B	4968	24	29-Jan-2026
Cable 2.92mm 1m	Junkosha	MWX241-01000KMS	5414	12	15-Aug-2026
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5426	12	23-May-2026
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5427	12	15-Aug-2026
3.5 mm 2m Cable	Junkosha	MWX221-02000DMS	5429	12	23-May-2026
3.5mm Cable (1m)	Junkosha	MWX221/B	5837	12	15-Aug-2026
Vector Signal Generator	Rohde & Schwarz	SMM100A	5915	36	01-Mar-2026
WiFi 6E Tri-Band Gaming Router	Asus	GT-AXE110000	5926	-	TU
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5938	12	15-Aug-2026
Cable (N to N 1m)	Junkosha	MWX221-01000AMSAMS/B	6009	12	06-Jun-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6356	12	23-May-2026
1m Coaxial Cable Assy	Junkosha	MWX221-01000AMSAMS/A	6374	12	23-May-2026
Test Coupling Network	TUV SUD	TUV_RxTest_001	6387	12	05-Dec-2026
Attenuator 5W 10dB DC-18GHz	Aaren	AT40A-4041-D18-10	6549	12	17-Jun-2026
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	6554	12	17-Jun-2026
10dB attenuator	RF-Lambda	RFS5G08B10SMF	6731	12	14-Jan-2026
10dB attenuator	RF-Lambda	RFS5G08B10SMF	6732	12	14-Jan-2026
1m SMA Cable	Junkosha	MWX221-01000AMSAMS/B	6920	12	08-Dec-2025
2m SMA Cable	Junkosha	MWX221-02000AMSAMS/B	6927	12	08-Dec-2025
Humidity & Temperature meter	Fluke	971	7102	12	05-Aug-2026

Table 1569

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	Method PM: ± 0.65 dB Method SA: ± 1.05 dB
Maximum Conducted Power Spectral Density	± 1.00 dB
Emission Bandwidth	± 2125.30 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 1570

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.