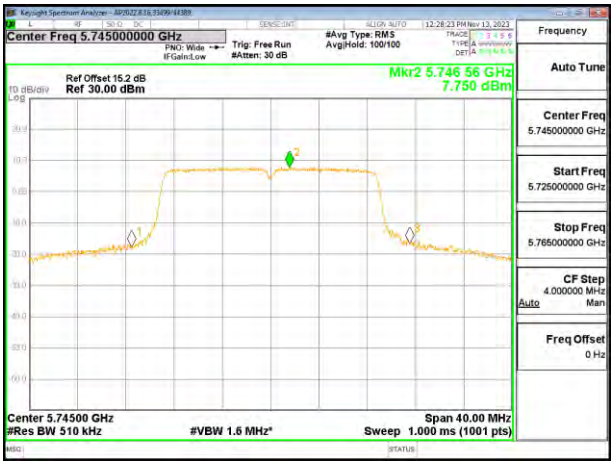
LOW CHANNEL



LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

9.5.28. 802.11n HT40 MODE IN THE 5.8 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5755	4.60	7.41	30.00	28.59
High	5795	4.60	7.41	30.00	28.59
142	5710	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

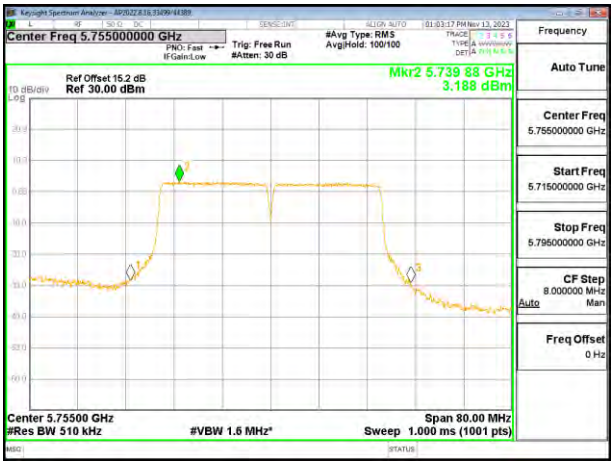
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	16.81	17.41	20.13	30.00	-9.87
High	5795	17.67	17.44	20.57	30.00	-9.43
142	5710	18.71	18.66	21.70	30.00	-8.30

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	3.188	2.545	5.889	28.59	-22.70
High	5795	3.056	2.233	5.674	28.59	-22.92
142	5710	0.568	0.000	3.304	28.59	-25.29

LOW CHANNEL



LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

9.5.29. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5775	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.11	**Included in Calculations of Corr'd Power**

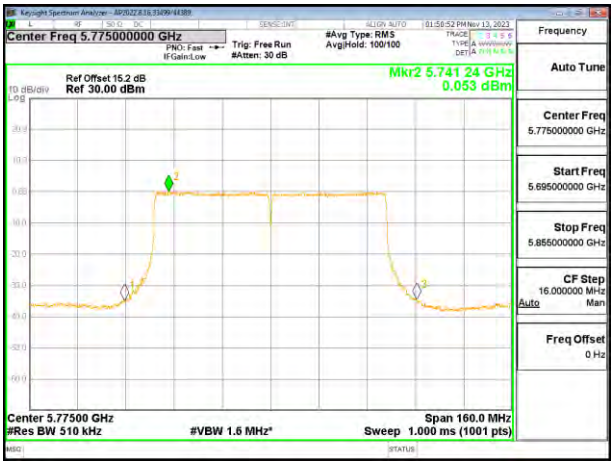
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	16.17	16.11	19.15	30.00	-10.85
138	5690	18.45	18.41	21.44	30.00	-8.56

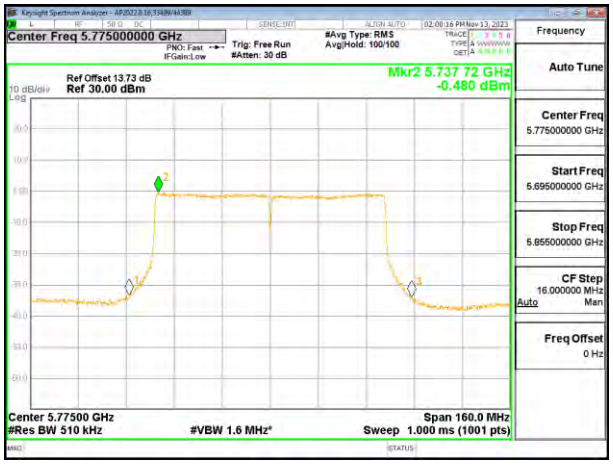
PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5775	0.053	-0.480	2.915	28.59	-25.68
138	5690	-2.068	-0.029	2.190	28.59	-26.40

MID CHANNEL



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

9.5.30. 802.11be EHT20 MODE IN THE 5.8 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 26T

Test Engineer:	33499/44389
Test Date:	11/13/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power & PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.90	18.95	21.94	30.00	-8.06
Mid	5785	18.68	17.92	21.33	30.00	-8.67
High	5825	18.45	17.94	21.21	30.00	-8.79
144	5720	9.82	9.44	12.64	30.00	-17.36

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	13.180	14.436	16.864	28.59	-11.73
Mid	5785	13.511	14.040	16.794	28.59	-11.80
High	5825	13.053	13.157	16.116	28.59	-12.47
144	5720	3.299	5.365	7.464	28.59	-21.13

LOW CHANNEL

LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 52T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power & PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.72	18.76	21.75	30.00	-8.25
Mid	5785	18.99	18.39	21.71	30.00	-8.29
High	5825	18.85	18.42	21.65	30.00	-8.35
144	5720	12.53	12.33	15.44	30.00	-14.56

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	11.250	11.500	14.387	28.59	-14.20
Mid	5785	10.488	11.313	13.930	28.59	-14.66
High	5825	10.195	10.523	13.372	28.59	-15.22
144	5720	3.575	4.756	7.216	28.59	-21.37

LOW CHANNEL

LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 52T+26T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power & PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	19.18	19.00	22.10	30.00	-7.90
Mid	5785	19.08	18.56	21.84	30.00	-8.16
High	5825	19.29	18.79	22.06	30.00	-7.94
144	5720	12.42	12.07	15.26	30.00	-14.74

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	9.801	9.807	12.814	28.59	-15.78
Mid	5785	8.660	9.670	12.205	28.59	-16.39
High	5825	9.017	9.303	12.173	28.59	-16.42
144	5720	2.049	3.529	5.862	28.59	-22.73

LOW CHANNEL

LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 106T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.97	18.89	21.94	30.00	-8.06
Mid	5785	18.86	18.58	21.73	30.00	-8.27
High	5825	19.13	18.24	21.72	30.00	-8.28
144	5720	15.30	14.84	18.09	30.00	-11.91

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	9.472	8.663	12.097	28.59	-16.49
Mid	5785	9.074	8.215	11.676	28.59	-16.91
High	5825	10.126	8.929	12.579	28.59	-16.01
144	5720	3.451	4.726	7.145	28.59	-21.44

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 106T+26T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

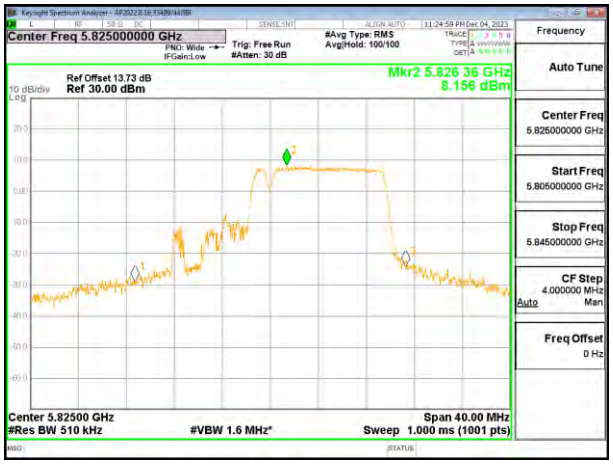
Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.94	18.85	21.91	30.00	-8.09
Mid	5785	19.11	18.56	21.85	30.00	-8.15
High	5825	18.97	18.37	21.69	30.00	-8.31
144	5720	15.44	14.97	18.22	30.00	-11.78

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	8.717	7.777	11.283	28.59	-17.31
Mid	5785	8.262	7.540	10.926	28.59	-17.66
High	5825	8.917	8.156	11.563	28.59	-17.03
144	5720	2.817	3.834	6.366	28.59	-22.22

HIGH CHANNEL

HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 242T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5745	4.60	7.41	30.00	28.59
Mid	5785	4.60	7.41	30.00	28.59
High	5825	4.60	7.41	30.00	28.59
144	5720	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

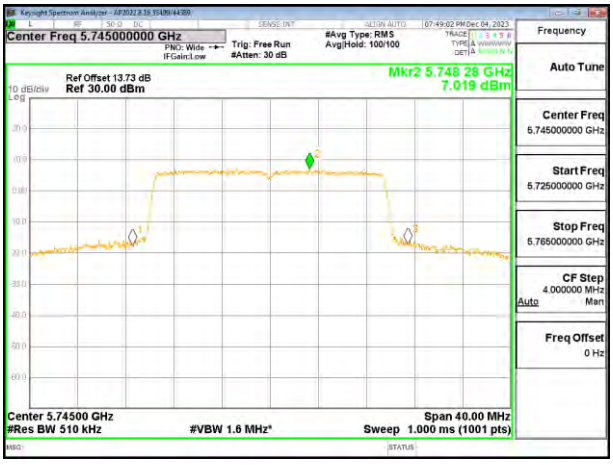
Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	20.61	20.19	23.42	30.00	-6.58
Mid	5785	20.45	20.10	23.29	30.00	-6.71
High	5825	20.40	19.93	23.18	30.00	-6.82
144	5720	18.40	18.71	21.57	30.00	-8.43

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	7.000	7.019	10.020	28.59	-18.57
Mid	5785	7.392	6.328	9.903	28.59	-18.69
High	5825	6.651	6.711	9.691	28.59	-18.90
144	5720	3.131	4.032	6.615	28.59	-21.97

LOW CHANNEL

LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

9.5.31. 802.11be EHT40 MODE IN THE 5.8 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5755	4.60	7.41	30.00	28.59
High	5795	4.60	7.41	30.00	28.59
142	5710	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

Output Power Results

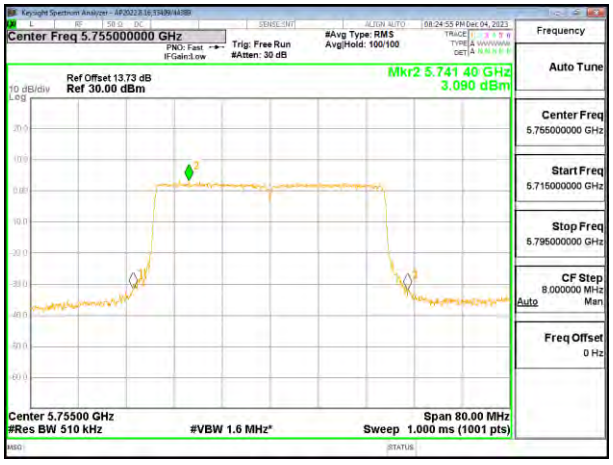
Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	16.64	16.08	19.38	30.00	-10.62
High	5795	18.77	18.51	21.65	30.00	-8.35
142	5710	19.10	18.66	21.90	30.00	-8.10

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	3.422	3.090	6.269	28.59	-22.32
High	5795	3.423	2.559	6.023	28.59	-22.57
142	5710	1.179	2.183	4.720	28.59	-23.87

LOW CHANNEL

LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

9.5.32. 802.11be EHT80 MODE IN THE 5.8 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T+242T (CONTIGUOUS)

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5775	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

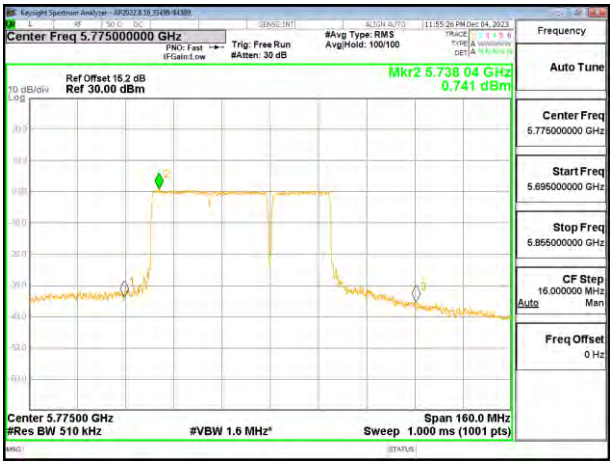
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	17.73	17.43	20.59	30.00	-9.41
138	5690	18.48	18.44	21.47	30.00	-8.53

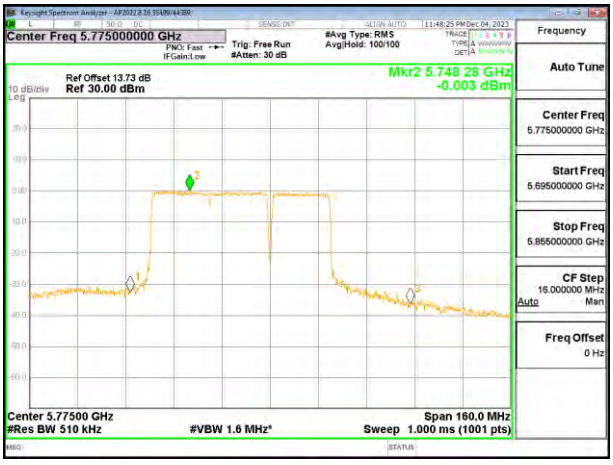
PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5775	0.741	-0.003	3.395	28.59	-25.19
138	5690	-0.809	0.491	2.900	28.59	-25.69

LOW CHANNEL



LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 242T+484T (NON-CONTIGUOUS)

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5775	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	13.21	12.83	16.03	30.00	-13.97
138	5690	18.94	18.70	21.83	30.00	-8.17

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T+242T (NON-CONTIGUOUS)

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Low	5775	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	17.73	17.43	20.59	30.00	-9.41
138	5690	18.85	18.85	21.86	30.00	-8.14

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 996T

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5755	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

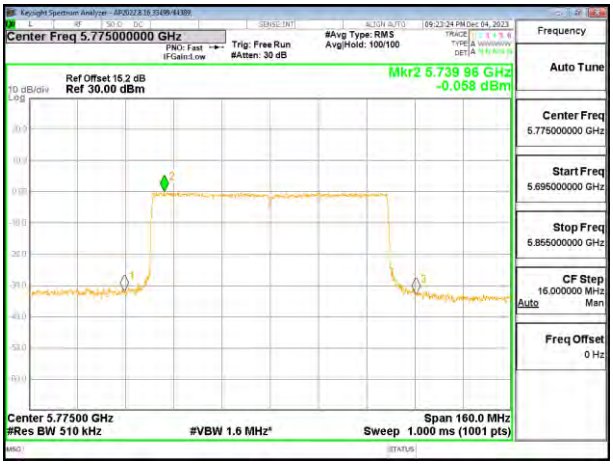
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	12.51	11.73	15.15	30.00	-14.85
138	5690	18.48	18.44	21.47	30.00	-8.53

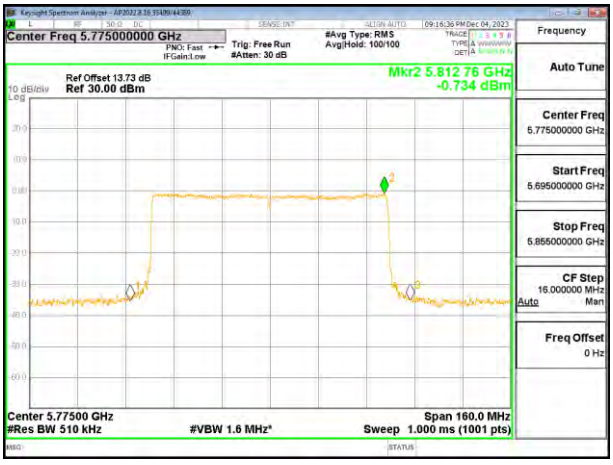
PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 500KHz)	CHAIN 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5755	-0.058	0.734	3.366	28.59	-25.22
138	5690	-2.898	-1.800	0.696	28.59	-27.89

MID CHANNEL



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – SU

Test Engineer:	33499/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5755	4.60	7.41	30.00	28.59
138	5690	4.60	7.41	30.00	28.59

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	17.47	16.84	20.18	30.00	-9.82
138	5690	18.23	18.48	21.37	30.00	-8.63

9.5.33. 802.11a MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

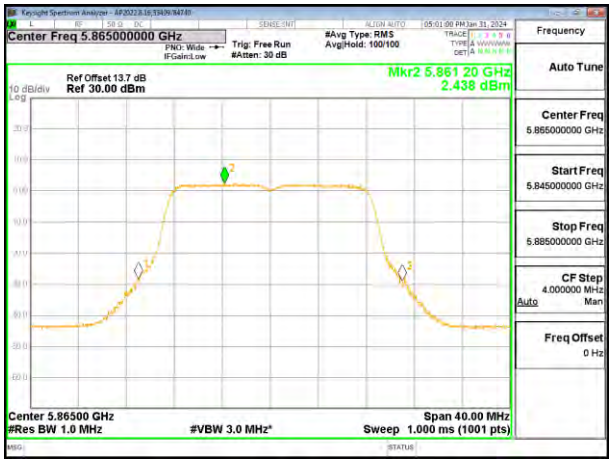
Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	14.09	13.34	21.34	30.00	-8.66
Mid	5865	13.84	13.19	21.14	30.00	-8.86
High	5885	14.15	13.55	21.47	30.00	-8.53

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	3.211	2.538	13.308	14.00	-0.69
Mid	5865	2.951	2.438	13.122	14.00	-0.88
High	5885	2.996	2.420	13.138	14.00	-0.86

MID CHANNEL

MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

9.5.34. 802.11n HT20 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	14.53	13.83	21.80	30.00	-8.20
Mid	5865	14.36	13.82	21.71	30.00	-8.29
High	5885	14.59	13.99	21.91	30.00	-8.09

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	3.380	2.541	13.401	14.00	-0.60
Mid	5865	3.141	2.534	13.268	14.00	-0.73
High	5885	3.275	2.505	13.327	14.00	-0.67

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

9.5.35. 802.11n HT40 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5835	4.60	7.41	30.00	14.00
High	5875	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5835	17.30	16.89	24.71	30.00	-5.29
High	5875	17.12	16.45	24.41	30.00	-5.59

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5835	3.340	2.773	13.486	14.00	-0.51
High	5875	3.096	2.462	13.211	14.00	-0.79

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

9.5.36. 802.11ac VHT80 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5855	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.11	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5855	16.15	16.94	24.17	30.00	-5.83

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5855	1.072	1.794	11.978	14.00	-2.02

MID CHANNEL

MID CHANNEL CHAIN 0

MID CHANNEL CHAIN 1

9.5.37. 802.11ac VHT160 MODE IN THE 5.8/5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC)

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5815	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.22	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5815	13.28	12.61	20.57	30.00	-9.43

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5815	-3.912	-3.509	6.934	14.00	-7.07

MID CHANNEL

MID CHANNEL CHAIN 0

MID CHANNEL CHAIN 1

9.5.38. 802.11be EHT20 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 26T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	5.63	5.26	13.06	30.00	-16.94
Mid	5865	5.75	5.40	13.19	30.00	-16.81
High	5885	6.08	5.58	13.45	30.00	-16.55

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	2.356	2.805	13.007	14.00	-0.99
Mid	5865	3.188	2.959	13.495	14.00	-0.50
High	5885	3.064	2.961	13.433	14.00	-0.57

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 52T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

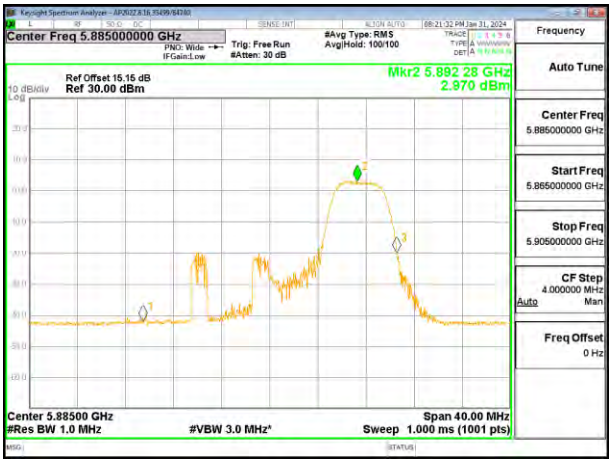
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	8.64	7.94	15.91	30.00	-14.09
Mid	5865	8.31	7.42	15.50	30.00	-14.50
High	5885	8.55	7.76	15.78	30.00	-14.22

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	2.989	2.729	13.281	14.00	-0.72
Mid	5865	3.089	2.801	13.368	14.00	-0.63
High	5885	2.970	2.357	13.095	14.00	-0.91

HIGH CHANNEL



HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 52T+26T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	9.09	8.35	16.35	30.00	-13.65
Mid	5865	8.72	7.84	15.91	30.00	-14.09
High	5885	8.85	8.02	16.07	30.00	-13.93

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	1.939	1.400	12.098	14.00	-1.90
Mid	5865	1.975	1.034	11.950	14.00	-2.05
High	5885	2.028	0.930	11.934	14.00	-2.07

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 106T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	10.82	10.36	18.21	30.00	-11.79
Mid	5865	10.93	10.33	18.25	30.00	-11.75
High	5885	11.04	10.64	18.45	30.00	-11.55

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	2.505	2.440	12.893	14.00	-1.11
Mid	5865	2.707	2.469	13.010	14.00	-0.99
High	5885	2.933	2.577	13.179	14.00	-0.82

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 106T+26T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	10.92	10.35	18.25	30.00	-11.75
Mid	5865	10.91	10.43	18.29	30.00	-11.71
High	5885	11.11	10.52	18.44	30.00	-11.56

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	1.797	1.486	12.065	14.00	-1.94
Mid	5865	1.932	1.583	12.181	14.00	-1.82
High	5885	1.783	1.416	12.024	14.00	-1.98

LOW CHANNEL

LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 242T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5845	4.60	7.41	30.00	14.00
Mid	5865	4.60	7.41	30.00	14.00
High	5885	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5845	14.46	13.77	21.74	30.00	-8.26
Mid	5865	14.44	13.76	21.72	30.00	-8.28
High	5885	14.51	13.94	21.84	30.00	-8.16

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5845	2.909	2.393	13.079	14.00	-0.92
Mid	5865	2.831	2.380	13.032	14.00	-0.97
High	5885	2.847	2.319	13.011	14.00	-0.99

HIGH CHANNEL

HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

9.5.39. 802.11be EHT40 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T

Test Engineer:	85502/44389
Test Date:	2023/10/20, 2023/12/05, 2024-01-31

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5835	4.60	7.41	30.00	14.00
High	5875	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

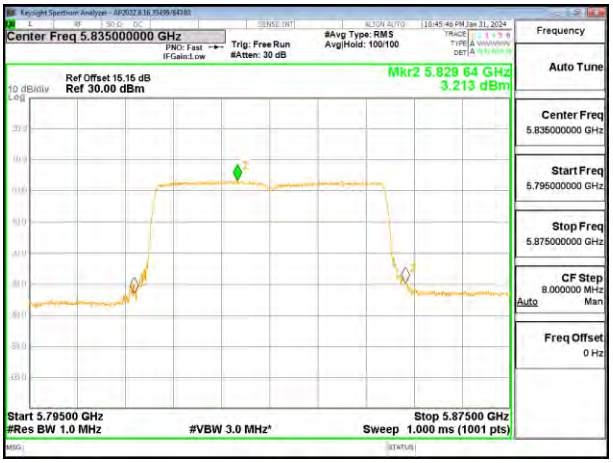
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Low	5835	17.79	16.49	24.80	30.00	-5.20
High	5875	17.58	17.02	24.92	30.00	-5.08

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5835	3.213	2.783	13.424	14.00	-0.58
High	5875	3.224	2.666	13.374	14.00	-0.63

LOW CHANNEL



LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

9.5.40. 802.11be EHT80 MODE IN THE 5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T+242T (CONTIGUOUS)

Test Engineer:	33499/44389, 85502/44389
Test Date:	2023/10/20, 2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5855	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

Output Power Results

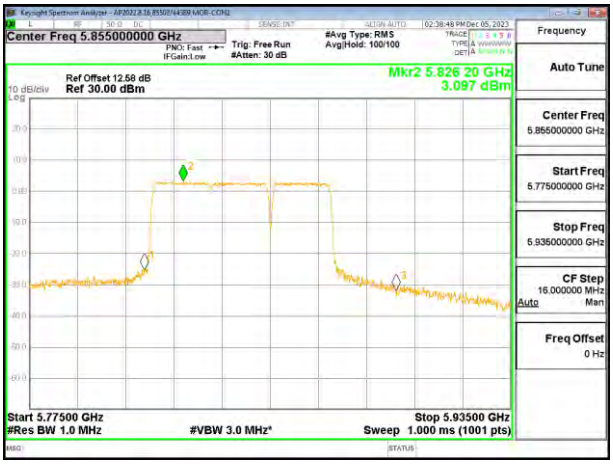
Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5855	16.93	16.60	24.38	30.00	-5.62

PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5855	2.341	3.097	13.156	14.00	-0.84

MID CHANNEL

MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 242T+484T (NON-CONTIGUOUS)

Test Engineer:	33499/44389, 85502/44389
Test Date:	2023/10/20, 2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5855	4.60	7.41	30.00	14.00

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5855	16.85	16.47	24.27	30.00	-5.73

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) 484T+242T (NON-CONTIGUOUS)

Test Engineer:	33499/44389, 85502/44389
Test Date:	2023/10/20, 2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5855	4.60	7.41	30.00	14.00

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5855	16.94	16.59	24.38	30.00	-5.62

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 996T

Test Engineer:	33499/44389, 84740/44389
Test Date:	2023/10/20, 2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5855	4.60	7.41	30.00	14.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

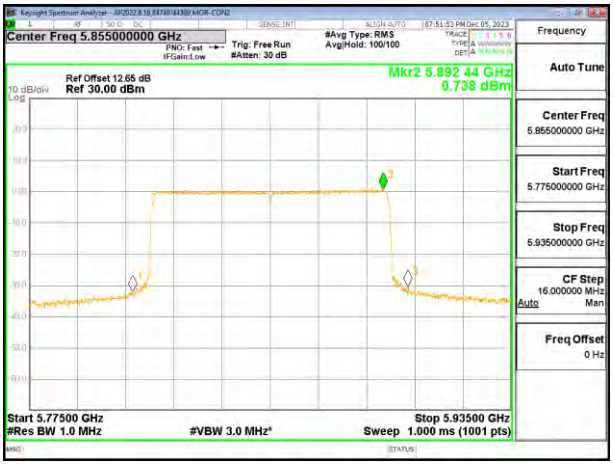
Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5855	16.38	15.70	23.66	30.00	-6.34

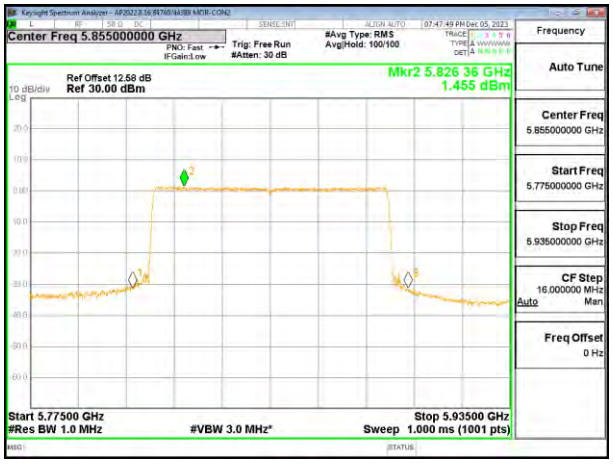
PSD Results

Channel	Frequency (MHz)	CHAIN 0 Meas PSD (dBm/ 1MHz)	CHAIN 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5855	0.738	1.455	11.532	14.00	-2.47

MID CHANNEL



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

9.5.41. 802.11be EHT160 MODE IN THE 5.8/5.9 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 996T+484T (CONTIGUOUS)

Test Engineer:	84740/44389, 33499/44389, 85502,/44389
Test Date:	2023/12/1 – 12/04/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)
Mid	5815	4.60	7.41	30.00

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5815	14.10	13.89	21.61	30.00	-8.39

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 484T+996T (NON-CONTIGUOUS)

Test Engineer:	84740/44389, 33499/44389, 85502,/44389
Test Date:	2023/12/1 – 12/04/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)
Mid	5815	4.60	7.41	30.00

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5815	13.85	13.46	21.27	30.00	-8.73

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 996T+484T (NON-CONTIGUOUS)

Test Engineer:	84740/44389, 33499/44389, 85502,/44389
Test Date:	2023/12/1 – 12/04/2023

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)
Mid	5815	4.60	7.41	30.00

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5815	13.83	13.50	21.28	30.00	-8.72

2TX CHAIN 0 + CHAIN 1 CDD MODE (FCC+IC) – 2*996T

Test Engineer:	84740/44389
Test Date:	2023/12/5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED EIRP Limit (dBm)
Mid	5815	4.60	7.41	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	EIRP Limit (dBm)	Power Margin (dB)
Mid	5815	14.06	13.28	21.30	30.00	-8.70

9.6. TRANSMIT POWER CONTROL (TPC)

LIMITS

FCC §15.407

(h) (1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

IC RSS-247

Band 5.25-5.35 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

DIRECTIONAL CHAIN GAIN

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	7.72	6.74	5.44	8.26
5.3	8.05	6.74	5.44	8.26
5.6	6.35	5.22	3.52	6.40
5.8	7.27	5.73	4.60	7.41
5.8	7.27	5.73	4.60	7.41

9.6.1. 802.11a MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	13.53	14.00	16.78	18.56	-1.78
Mid	5300	13.61	14.31	16.98	18.56	-1.58
High	5320	13.65	14.48	17.09	18.56	-1.47

9.6.2. 802.11n HT20 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	13.65	14.48	17.10	18.56	-1.46
Mid	5300	13.63	14.38	17.03	18.56	-1.53
High	5320	13.65	14.48	17.10	18.56	-1.46

9.6.3. 802.11n HT40 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5270	24	5.44	18.56
High	5310	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5270	13.49	14.08	16.80	18.56	-1.76
High	5310	13.57	14.42	17.03	18.56	-1.53

9.6.4. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5290	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5290	13.39	14.06	16.75	18.56	-1.81

9.6.5. 802.11be EHT20 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	8.41	8.04	11.24	18.56	-7.32
Mid	5300	7.63	7.86	10.76	18.56	-7.80
High	5320	7.46	7.66	10.57	18.56	-7.99

2TX CHAIN 0 + CHAIN 1 CDD MODE – 52T

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	10.43	10.75	13.60	18.56	-4.96
Mid	5300	10.39	10.61	13.51	18.56	-5.05
High	5320	10.17	10.65	13.43	18.56	-5.13

2TX CHAIN 0 + CHAIN 1 CDD MODE – 52T+26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	10.56	11.05	13.82	18.56	-4.74
Mid	5300	10.54	11.32	13.96	18.56	-4.60
High	5320	10.59	11.11	13.87	18.56	-4.69

2TX CHAIN 0 + CHAIN 1 CDD MODE – 106T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	13.25	13.17	16.22	18.56	-2.34
Mid	5300	13.22	13.35	16.30	18.56	-2.26
High	5320	13.39	13.52	16.47	18.56	-2.09

2TX CHAIN 0 + CHAIN 1 CDD MODE – 106T+26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	13.49	13.35	16.43	18.56	-2.13
Mid	5300	13.43	13.54	16.50	18.56	-2.06
High	5320	13.30	13.69	16.51	18.56	-2.05

2TX CHAIN 0 + CHAIN 1 CDD MODE – 242T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5260	24	5.44	18.56
Mid	5300	24	5.44	18.56
High	5320	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5260	13.60	13.96	16.79	18.56	-1.77
Mid	5300	13.53	14.28	16.93	18.56	-1.63
High	5320	13.55	14.39	17.00	18.56	-1.56

9.6.6. 802.11be EHT40 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 484T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5270	24	5.44	18.56
High	5310	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5270	13.60	14.00	16.81	18.56	-1.75
High	5310	13.63	14.43	17.06	18.56	-1.50

9.6.7. 802.11be EHT80 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 484T+242T

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5290	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5290	14.39	14.38	17.40	18.56	-1.16

2TX CHAIN 0 + CHAIN 1 CDD MODE – 996T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5290	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5290	13.36	14.03	16.72	18.56	-1.84

9.6.8. 802.11be EHT160 MODE IN THE 5.3 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 996T+484T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5250	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5250	13.71	13.82	16.78	18.56	-1.78

2TX CHAIN 0 + CHAIN 1 CDD MODE – 2*996T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5250	24	5.44	18.56

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5250	12.86	13.45	16.17	18.56	-2.39

9.6.9. 802.11a MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	16.52	16.87	19.71	20.48	-0.77
Mid	5580	16.47	16.73	19.61	20.48	-0.87
High	5700	16.94	16.84	19.90	20.48	-0.58
144	5720	17.14	16.73	19.95	20.48	-0.53

9.6.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	16.46	16.90	19.70	20.48	-0.78
Mid	5580	16.39	16.81	19.62	20.48	-0.86
High	5700	16.92	16.84	19.89	20.48	-0.59
144	5720	17.10	16.69	19.91	20.48	-0.57

9.6.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5510	24	3.52	20.48
Mid	5550	24	3.52	20.48
High	5670	24	3.52	20.48
142	5710	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5510	16.48	17.08	19.80	20.48	-0.68
Mid	5550	16.47	17.23	19.87	20.48	-0.61
High	5670	16.70	16.64	19.68	20.48	-0.80
142	5710	16.95	16.94	19.95	20.48	-0.53

9.6.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5530	24	3.52	20.48
High	5610	24	3.52	20.48
138	5690	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5530	16.25	17.00	19.65	20.48	-0.83
High	5610	16.65	17.05	19.86	20.48	-0.62
138	5690	16.85	16.83	19.85	20.48	-0.63

9.6.13. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5570	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5570	16.25	16.97	19.63	20.48	-0.85

9.6.14. 802.11be EHT20 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	9.36	10.62	13.05	20.48	-7.43
Mid	5580	8.96	9.33	12.16	20.48	-8.32
High	5700	8.39	8.17	11.29	20.48	-9.19
144	5720	10.41	9.35	12.92	20.48	-7.56

2TX CHAIN 0 + CHAIN 1 CDD MODE – 52T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	12.04	12.68	15.38	20.48	-5.10
Mid	5580	12.26	12.94	15.62	20.48	-4.86
High	5700	11.82	11.98	14.91	20.48	-5.57
144	5720	13.21	12.35	15.81	20.48	-4.67

2TX CHAIN 0 + CHAIN 1 CDD MODE – 52T + 26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	12.31	13.17	15.77	20.48	-4.71
Mid	5580	12.71	13.04	15.89	20.48	-4.59
High	5700	12.06	11.95	15.02	20.48	-5.46
144	5720	12.31	12.19	15.26	20.48	-5.22

2TX CHAIN 0 + CHAIN 1 CDD MODE – 106T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	15.16	15.68	18.44	20.48	-2.04
Mid	5580	15.26	15.93	18.62	20.48	-1.86
High	5700	16.17	15.85	19.02	20.48	-1.46
144	5720	15.27	14.99	18.14	20.48	-2.34

2TX CHAIN 0 + CHAIN 1 CDD MODE – 106T + 26T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	15.26	15.94	18.62	20.48	-1.86
Mid	5580	15.43	15.90	18.68	20.48	-1.80
High	5700	16.01	15.89	18.96	20.48	-1.52
144	5720	15.30	15.11	18.22	20.48	-2.26

2TX CHAIN 0 + CHAIN 1 CDD MODE – 242T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5500	24	3.52	20.48
Mid	5580	24	3.52	20.48
High	5700	24	3.52	20.48
144	5720	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5500	16.51	16.85	19.69	20.48	-0.79
Mid	5580	16.43	16.84	19.65	20.48	-0.83
High	5700	17.02	16.85	19.95	20.48	-0.53
144	5720	17.19	16.72	19.97	20.48	-0.51

9.6.15. 802.11be EHT40 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 484T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5510	24	3.52	20.48
Mid	5550	24	3.52	20.48
High	5670	24	3.52	20.48
138	5710	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5510	16.66	17.22	19.96	20.48	-0.52
Mid	5550	16.58	17.22	19.92	20.48	-0.56
High	5670	16.86	16.84	19.86	20.48	-0.62
138	5710	16.62	16.41	19.52	20.48	-0.96

9.6.16. 802.11be EHT80 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 484T + 242T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5530	24	3.52	20.48
High	5610	24	3.52	20.48
138	5690	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5530	16.11	16.97	19.57	20.48	-0.91
High	5610	16.67	16.87	19.78	20.48	-0.70
138	5690	16.99	16.73	19.87	20.48	-0.61

2TX CHAIN 0 + CHAIN 1 CDD MODE – 996T

TPC Limits

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Low	5530	24	3.52	20.48
High	5610	24	3.52	20.48
138	5690	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Low	5530	16.37	17.13	19.77	20.48	-0.71
High	5610	16.75	17.04	19.91	20.48	-0.57
138	5690	17.01	16.82	19.93	20.48	-0.55

9.6.17. 802.11be EHT160 MODE IN THE 5.6 GHz BAND

2TX CHAIN 0 + CHAIN 1 CDD MODE – 996T+484T

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5570	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5570	17.04	17.64	20.36	20.48	-0.12

2TX CHAIN 0 + CHAIN 1 CDD MODE – 2*996T

Channel	Frequency (MHz)	Limit EIRP (dBm)	Directional Gain (dBi)	Limit Cond (dBm)
Mid	5570	24	3.52	20.48

TPC Output Power Results

Channel	Frequency (MHz)	CHAIN 0 Meas Power (dBm)	CHAIN 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Cond Power Limit (dBm)	Margin (dB)
Mid	5570	16.48	16.90	19.70	20.48	-0.78

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 - Restricted bands
FCC §15.407(b)(1-5) - Unrestricted bands

RSS 247 Issue 2 Sections
6.2.1.2 (for 5150-5250 MHz band)
6.2.2.2 (for 5250-5350 MHz band)
6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)
6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.
Note: Where applicable, some bandedge average measurements were integrated over 1MHz using lower RBW as allowed in FCC §15.407 (b)(8)

The spectrum from 9kHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

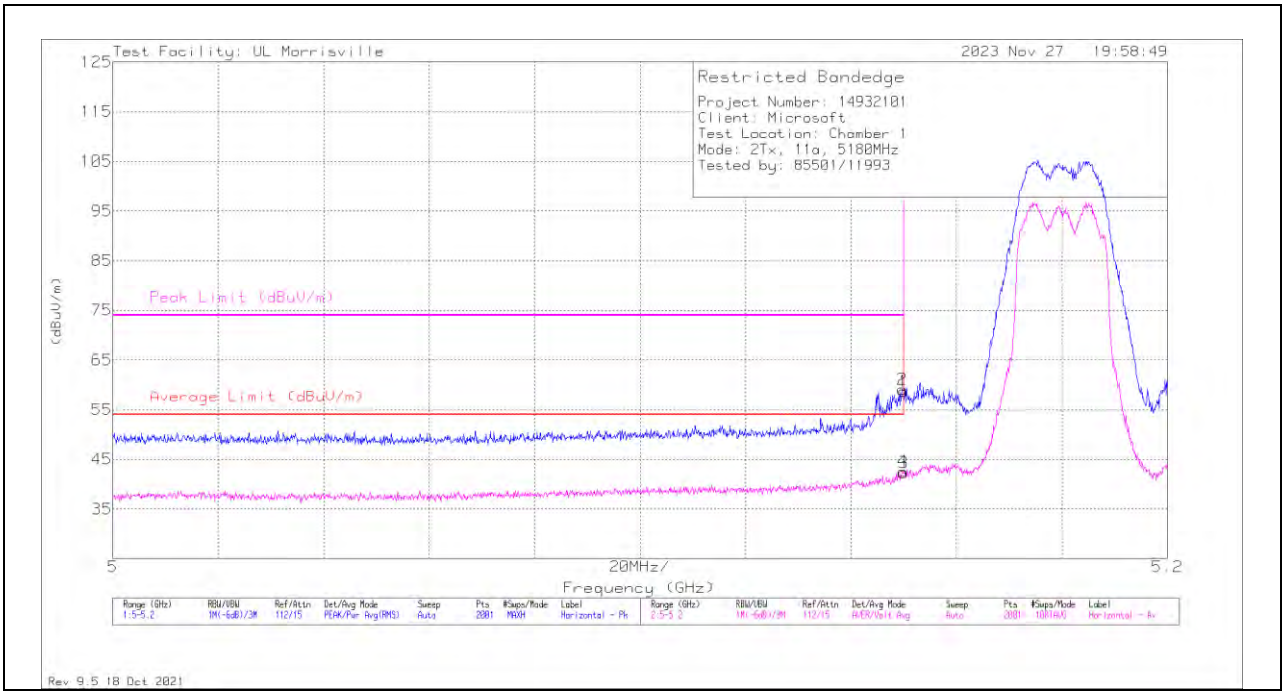
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

2TX CDD MODE

BANDEDGE (LOW CHANNEL)

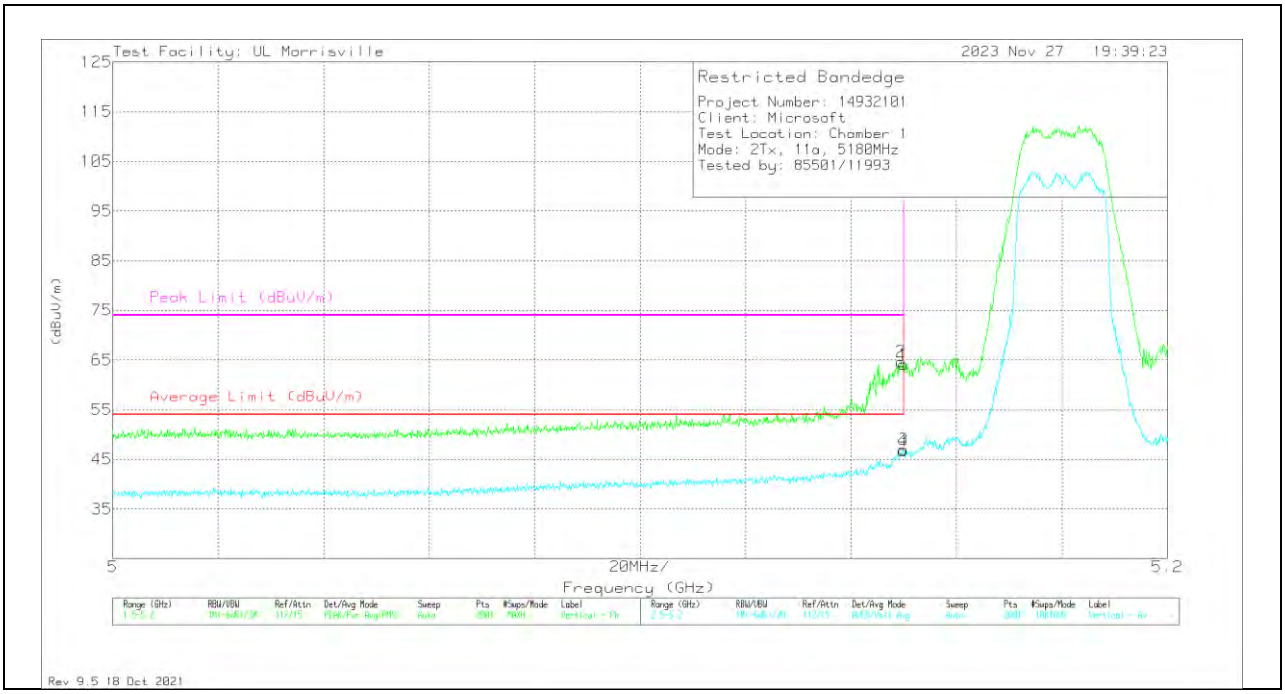
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* ** 5.1497	46.76	Pk	34.3	-22	59.06	-	-	74	-14.94	359	397	H
4	* ** 5.1499	30.27	ADV	34.3	-22	42.57	54	-11.43	-	-	359	397	H
1	* ** 5.15	46.47	Pk	34.3	-22	58.77	-	-	74	-15.23	359	397	H
3	* ** 5.15	29.99	ADV	34.3	-22	42.29	54	-11.71	-	-	359	397	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	51.79	Pk	34.3	-22	64.09	-	-	74	-9.91	17	254	V
2	* ** 5.1495	52.4	Pk	34.3	-22	64.7	-	-	74	-9.3	17	254	V
3	* ** 5.15	34.66	ADV	34.3	-22	46.96	54	-7.04	-	-	17	254	V
4	* ** 5.1498	34.5	ADV	34.3	-22	46.8	54	-7.2	-	-	17	254	V

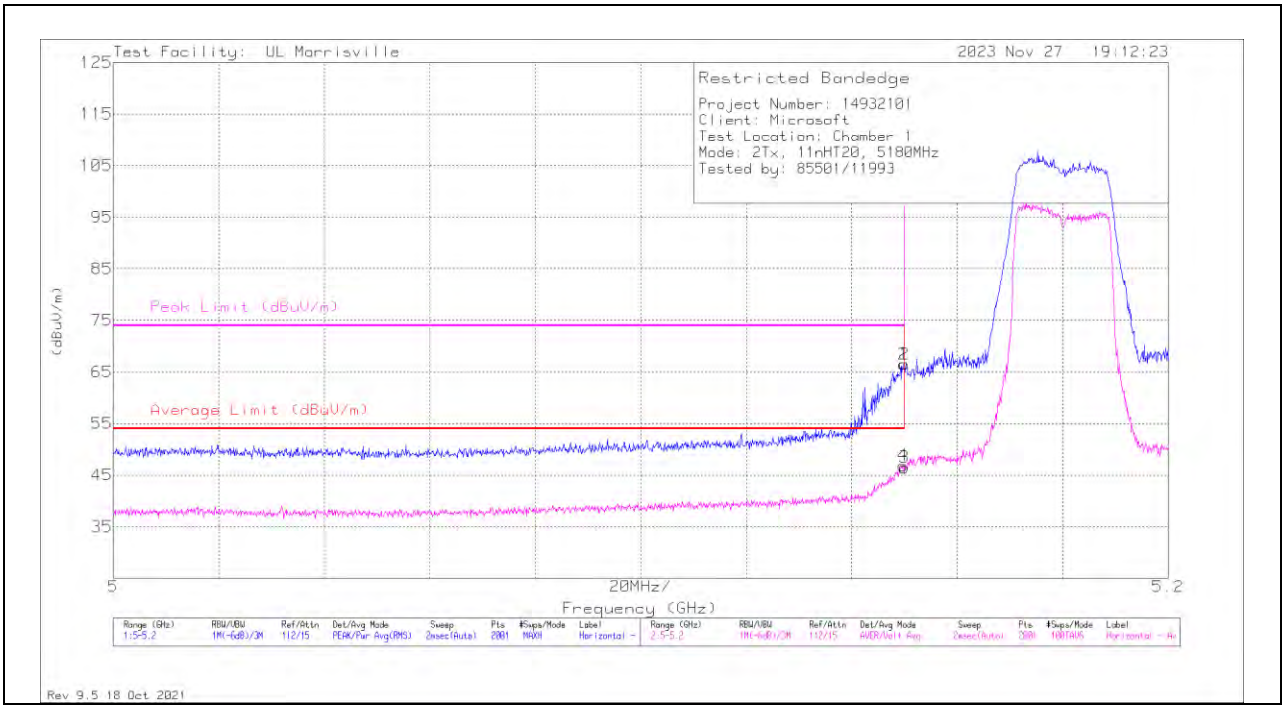
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

2TX CDD MODE

BANDEDGE (LOW CHANNEL)

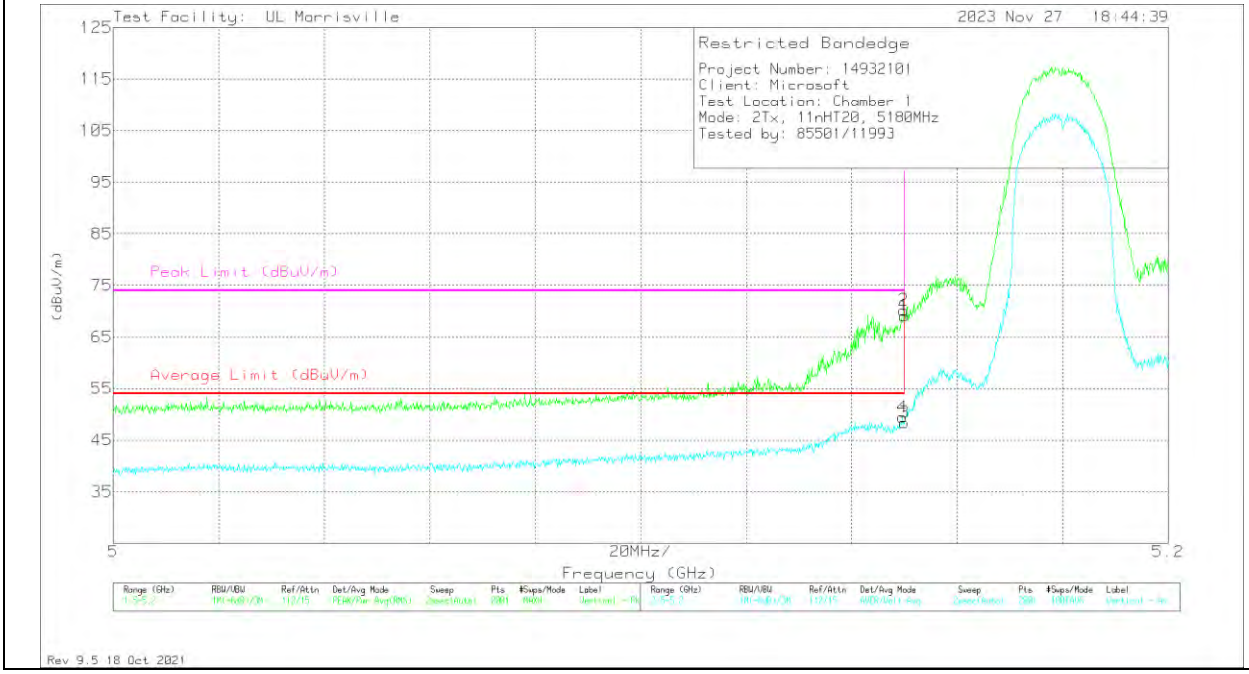
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	54.26	Pk	34.3	-22	66.56	-	-	74	-7.44	9	319	H
2	* ** 5.1499	54.22	Pk	34.3	-22	66.52	-	-	74	-7.48	9	319	H
3	* ** 5.15	34.21	ADV	34.3	-22	46.51	54	-7.49	-	-	9	319	H
4	* ** 5.1497	34.54	ADV	34.3	-22	46.84	54	-7.16	-	-	9	319	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT

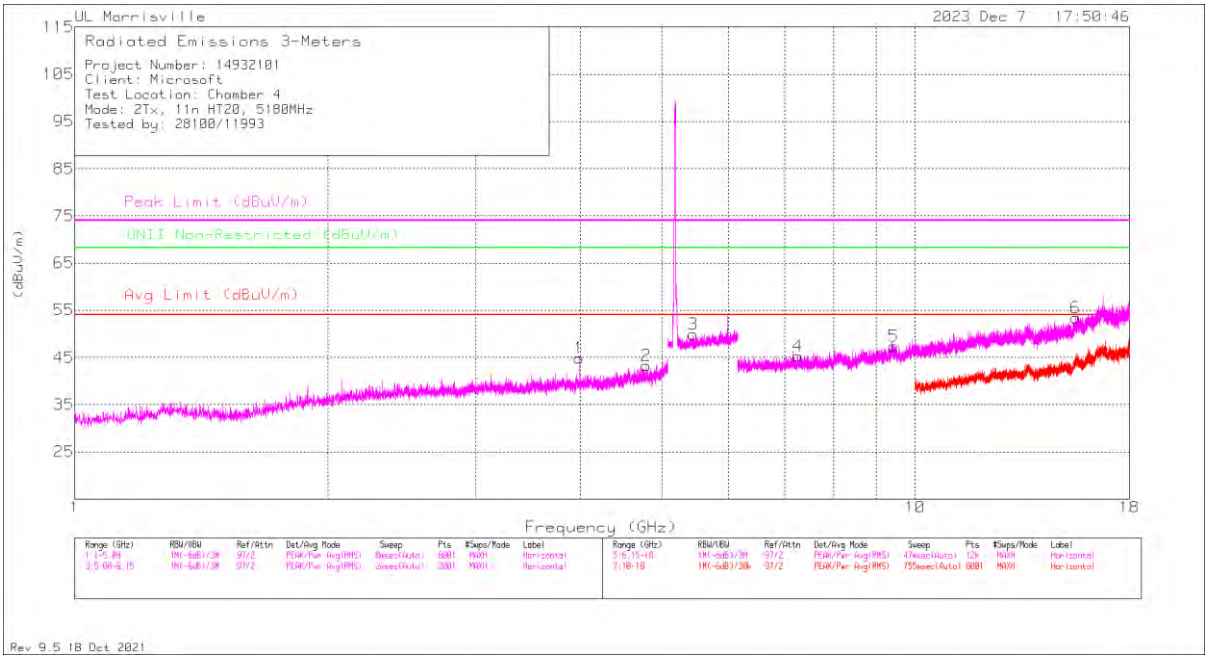


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	56.83	Pk	34.3	-22	69.13	-	-	74	-4.87	333	248	V
2	* ** 5.1498	57.88	Pk	34.3	-22	70.18	-	-	74	-3.82	333	248	V
3	* ** 5.15	36.12	ADV	34.3	-22	48.42	54	-5.58	-	-	333	248	V
4	* ** 5.1496	37.14	ADV	34.3	-22	49.44	54	-4.56	-	-	333	248	V

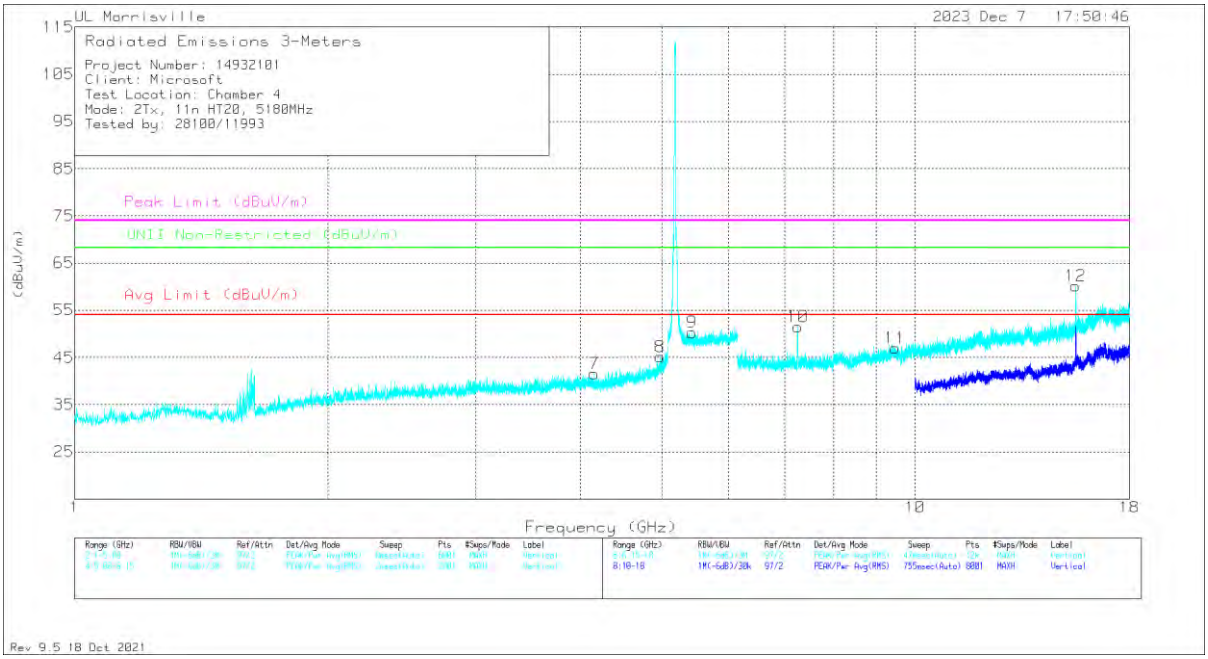
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



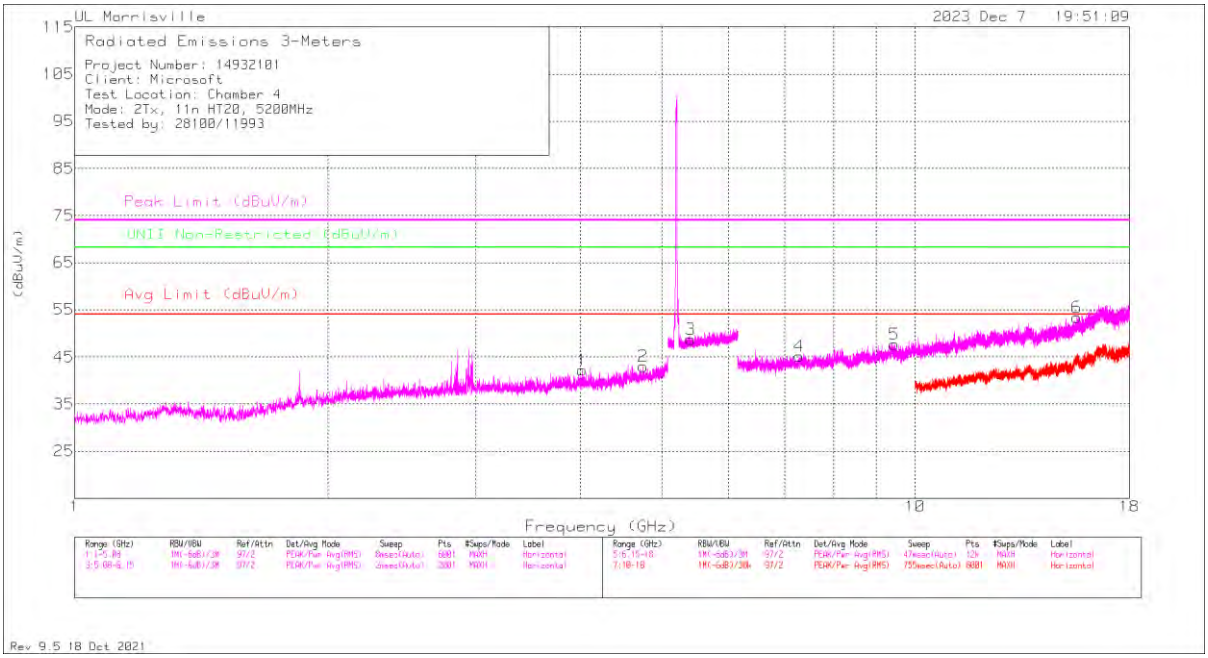
VERTICAL

RADIATED EMISSIONS

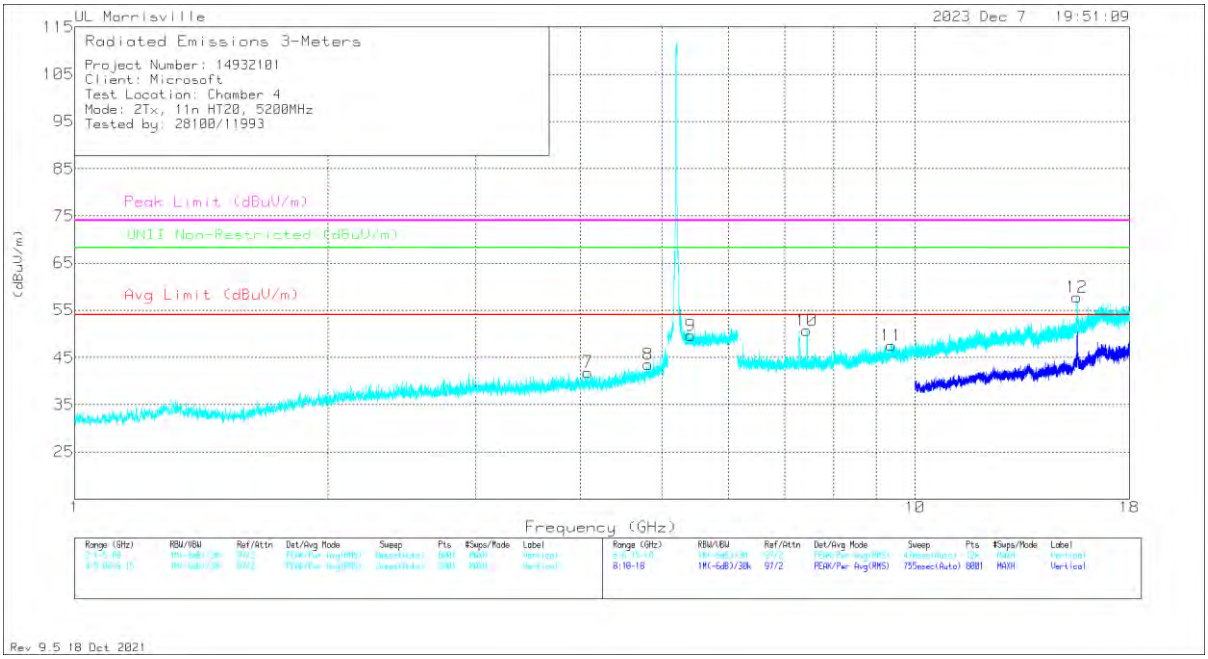
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 3.98316	44.22	Pk	33.4	-32.8	44.82	54	-9.18	74	-29.18	-	-	0-360	100	H
2	* ** 4.78828	39.61	Pk	34.1	-30.4	43.31	54	-10.69	74	-30.69	-	-	0-360	100	H
7	* ** 4.15044	39.87	Pk	33.5	-31.8	41.57	54	-12.43	74	-32.43	-	-	0-360	200	V
8	* ** 4.97256	41.56	Pk	34	-30.4	45.16	54	-8.84	74	-28.84	-	-	0-360	200	V
3	* ** 5.44088	24.62	PK-U	34.6	-8.9	50.32	-	-	74	-23.68	-	-	266	310	H
	* ** 5.44368	12.6	ADV	34.6	-9	38.2	54	-15.8	-	-	-	-	266	310	H
9	* ** 5.42896	25.81	PK-U	34.6	-8.8	51.61	-	-	74	-22.39	-	-	29	211	V
	* ** 5.42816	13.09	ADV	34.6	-8.8	38.89	54	-15.11	-	-	-	-	29	211	V
4	* ** 7.25699	37.95	Pk	35.6	-28.3	45.25	54	-8.75	74	-28.75	-	-	0-360	100	H
5	* ** 9.44035	35.94	Pk	36.7	-25.2	47.44	54	-6.56	74	-26.56	-	-	0-360	100	H
6	* ** 15.51868	33.57	PK-U	40	-20.8	52.77	-	-	74	-21.23	-	-	33	152	H
	* ** 15.51985	21.49	ADV	40	-20.6	40.89	54	-13.11	-	-	-	-	33	152	H
10	* ** 7.25317	43.17	PK-U	35.6	-28.3	50.47	-	-	74	-23.53	-	-	33	200	V
	* ** 7.25328	32.19	ADV	35.6	-28.3	39.49	54	-14.51	-	-	-	-	33	200	V
11	* ** 9.47096	35.56	Pk	36.7	-25.3	46.96	54	-7.04	74	-27.04	-	-	0-360	200	V
12	* ** 15.53433	43.27	PK-U	40.1	-21.3	62.07	-	-	74	-11.93	-	-	20	201	V
	* ** 15.53447	29.18	ADV	40.1	-21.3	47.98	54	-6.02	-	-	-	-	20	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
PK-U - Maximum Peak
ADV - Linear Voltage Average

MID CHANNEL RESULTS



HORIZONTAL



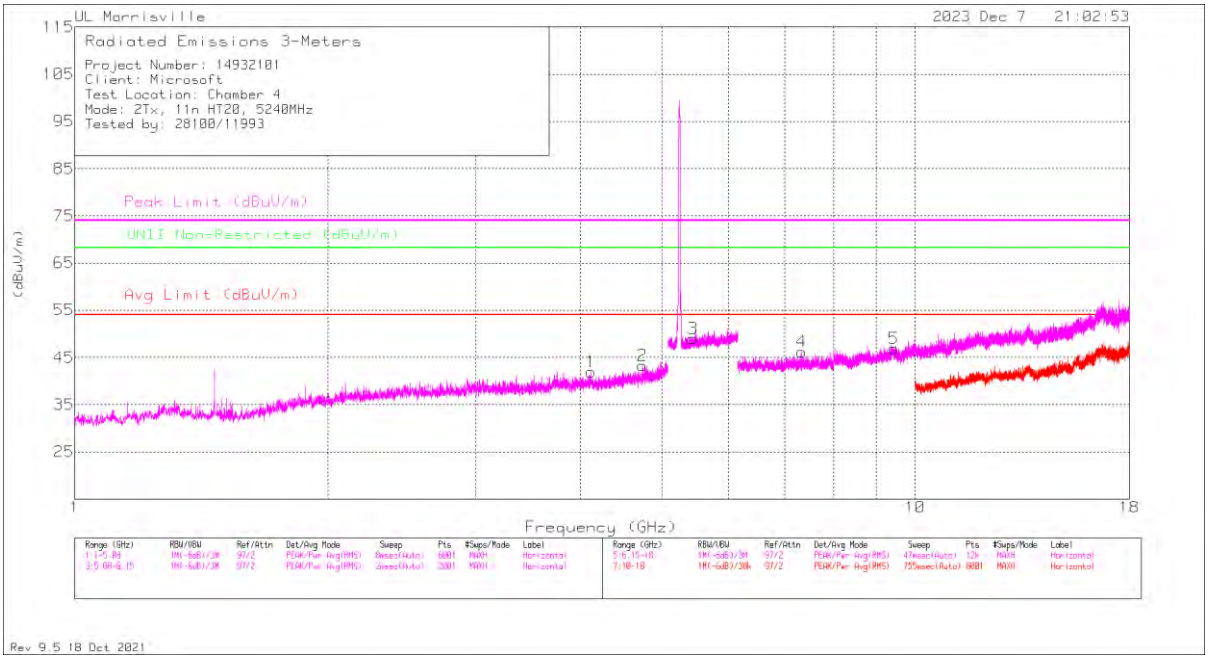
VERTICAL

RADIATED EMISSIONS

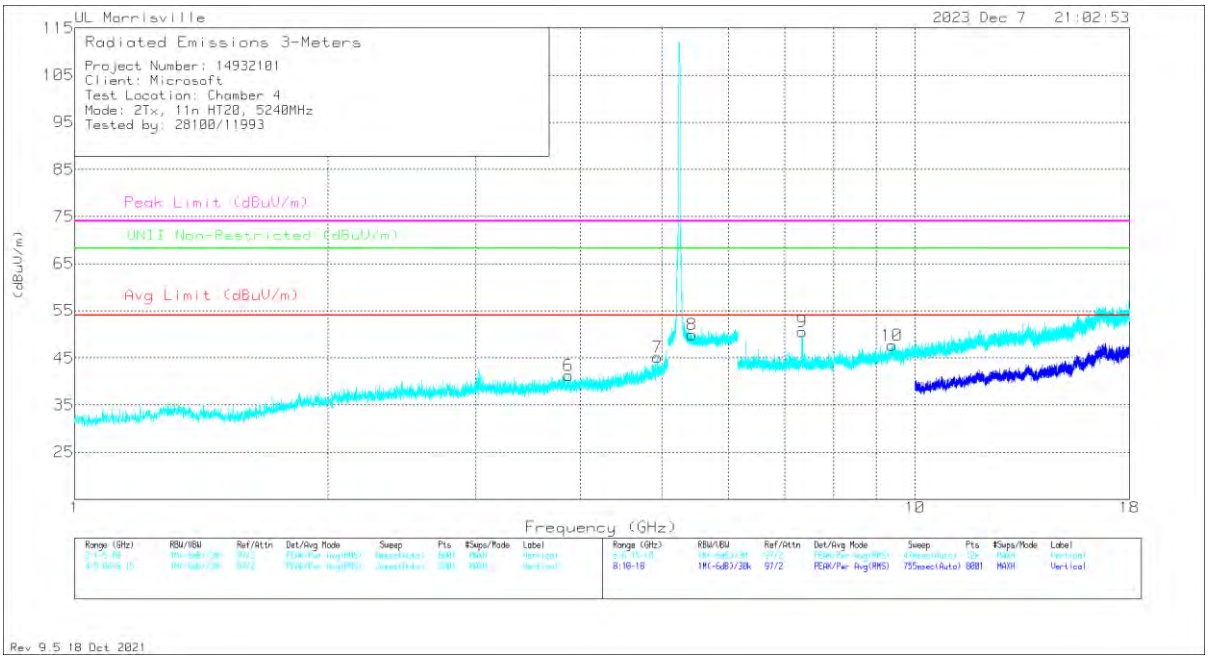
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.02124	41.57	Pk	33.4	-32.8	42.17	54	-11.83	74	-31.83	-	-	0-360	100	H
2	* ** 4.74476	40.22	Pk	34	-31.2	43.02	54	-10.98	74	-30.98	-	-	0-360	100	H
7	* ** 4.08176	40.68	Pk	33.4	-32.2	41.88	54	-12.12	74	-32.12	-	-	0-360	200	V
8	* ** 4.81208	40.1	Pk	34.1	-30.6	43.6	54	-10.4	74	-30.4	-	-	0-360	200	V
3	* ** 5.40621	24.63	PK-U	34.6	-8.9	50.33	-	-	74	-23.67	-	-	48	166	H
	* ** 5.40862	12	ADV	34.6	-8.8	37.8	54	-16.2	-	-	-	-	48	166	H
9	* ** 5.40971	26.81	PK-U	34.6	-8.9	52.51	-	-	74	-21.49	-	-	15	143	V
	* ** 5.41121	14.41	ADV	34.6	-8.9	40.11	54	-13.89	-	-	-	-	15	143	V
4	* ** 7.28069	37.35	Pk	35.7	-27.9	45.15	54	-8.85	74	-28.85	-	-	0-360	100	H
5	* ** 9.45911	36.35	Pk	36.7	-25.4	47.65	54	-6.35	74	-26.35	-	-	0-360	100	H
6	* ** 15.59131	35.45	PK-U	40.2	-20.7	54.95	-	-	74	-19.05	-	-	56	274	H
	* ** 15.59145	23.19	ADV	40.2	-20.7	42.69	54	-11.31	-	-	-	-	56	274	H
10	* ** 7.4375	52.27	PK-U	35.7	-27.7	60.27	-	-	74	-13.73	-	-	236	125	V
	* ** 7.43509	26	ADV	35.7	-27.6	34.1	54	-19.9	-	-	-	-	236	125	V
11	* ** 9.36431	36.38	Pk	36.5	-25.3	47.58	54	-6.42	74	-26.42	-	-	0-360	200	V
12	* ** 15.59444	42.45	PK-U	40.2	-20.4	62.25	-	-	74	-11.75	-	-	21	292	V
	* ** 15.59408	27.73	ADV	40.2	-20.3	47.63	54	-6.37	-	-	-	-	21	292	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
PK-U - Maximum Peak
ADV - Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.11712	40.11	Pk	33.4	-31.6	41.91	54	-12.09	74	-32.09	-	-	0-360	100	H
2	* ** 4.73796	40.61	Pk	34	-31.3	43.31	54	-10.69	74	-30.69	-	-	0-360	100	H
6	* ** 3.8696	39.97	Pk	33.4	-32.1	41.27	54	-12.73	74	-32.73	-	-	0-360	200	V
7	* ** 4.93652	41.92	Pk	33.9	-30.7	45.12	54	-8.88	74	-28.88	-	-	0-360	200	V
3	* ** 5.44187	24.8	PK-U	34.6	-8.9	50.5	-	-	74	-23.5	-	-	174	300	H
	* ** 5.44227	12.09	ADV	34.6	-8.9	37.79	54	-16.21	-	-	-	-	174	300	H
8	* ** 5.43044	26.96	PK-U	34.6	-8.9	52.66	-	-	74	-21.34	-	-	59	278	V
	* ** 5.4277	14.5	ADV	34.6	-8.8	40.3	54	-13.7	-	-	-	-	59	278	V
4	* ** 7.32908	38.1	Pk	35.6	-27.5	46.2	54	-7.8	74	-27.8	-	-	0-360	100	H
5	* ** 9.44035	35.33	Pk	36.7	-25.2	46.83	54	-7.17	74	-27.17	-	-	0-360	100	H
9	* ** 7.34752	40.98	PK-U	35.5	-27.5	48.98	-	-	74	-25.02	-	-	204	244	V
	* ** 7.34689	25.64	ADV	35.5	-27.6	33.54	54	-20.46	-	-	-	-	204	244	V
10	* ** 9.38011	36.25	Pk	36.6	-25.2	47.65	54	-6.35	74	-26.35	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
PK-U - Maximum Peak
ADV - Linear Voltage Average

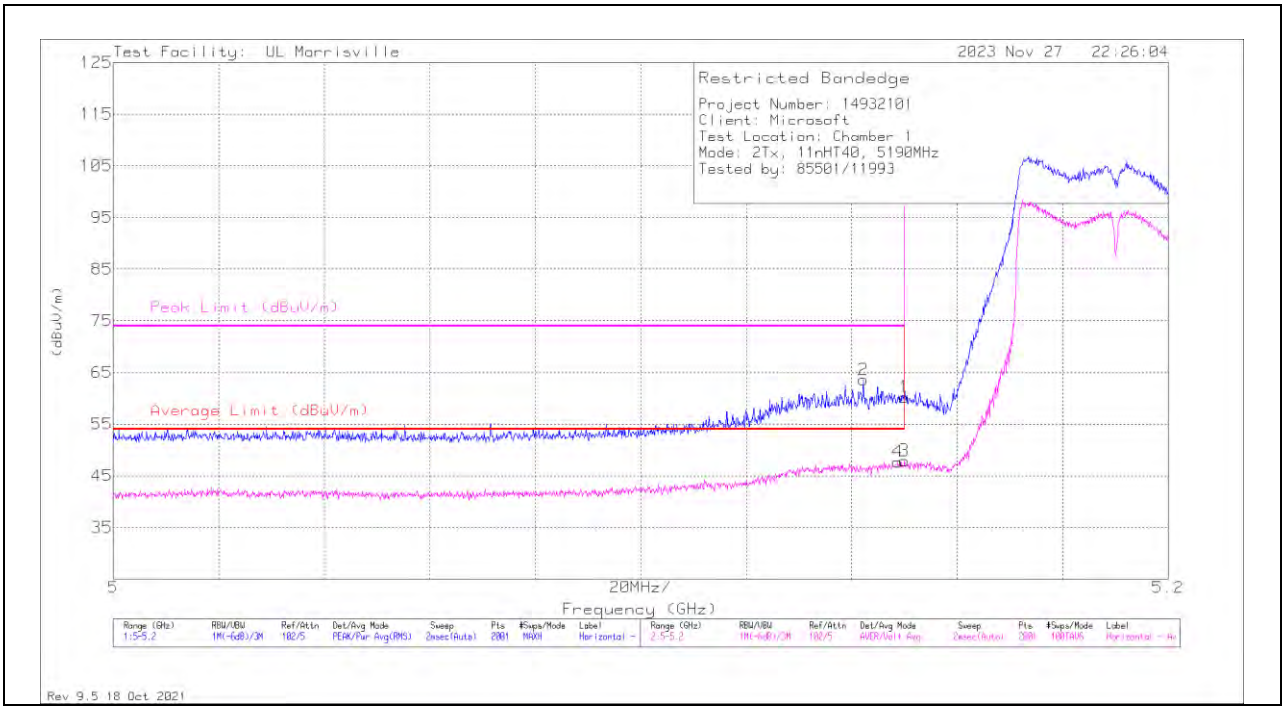
UL LLC
12 Laboratory Drive, Research Triangle Park, NC 27709; USA TEL:(919)549-1400

10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

2TX CDD MODE

BANDEDGE (LOW CHANNEL)

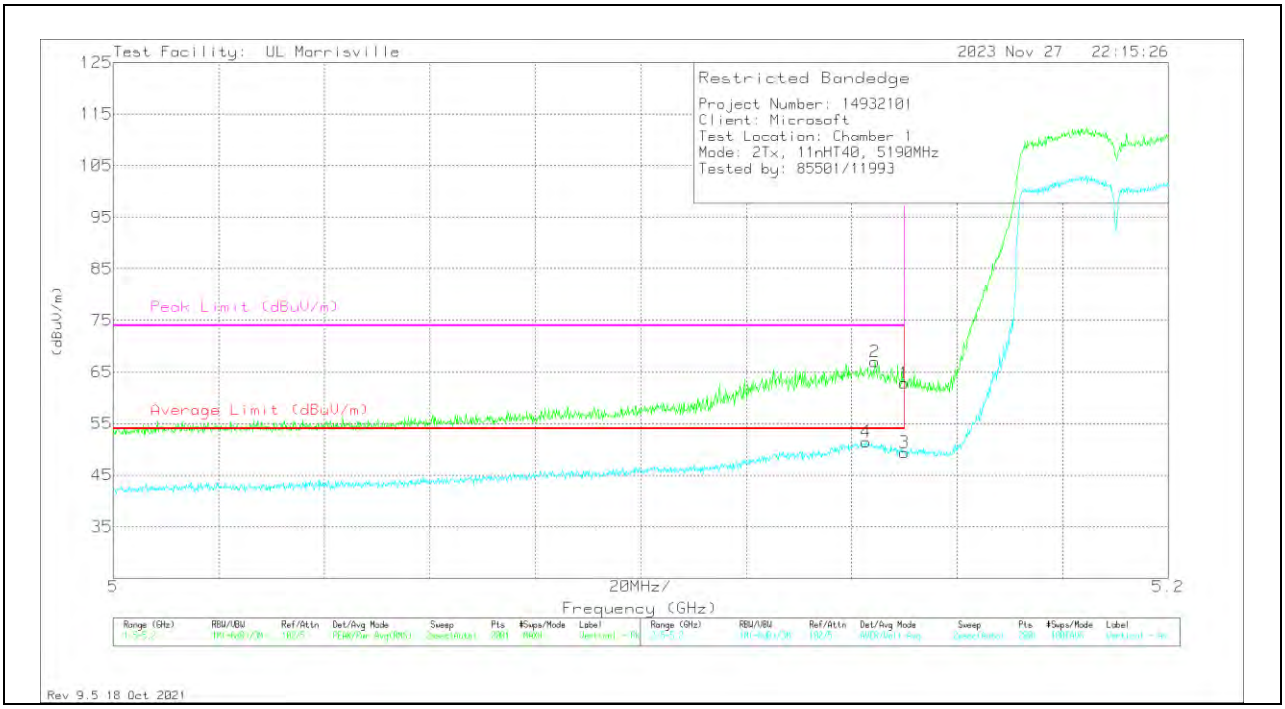
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	37.94	Pk	34.3	-22	10	60.24	-	-	74	-13.76	24	398	H
2	* ** 5.1422	41.38	Pk	34.3	-22.1	10	63.58	-	-	74	-10.42	24	398	H
3	* ** 5.15	25.6	ADV	34.3	-22	10	47.9	54	-6.1	-	-	24	398	H
4	* ** 5.1487	25.4	ADV	34.3	-22	10	47.7	54	-6.3	-	-	24	398	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	40.54	Pk	34.3	-22	10	62.84	-	-	74	-11.16	360	239	V
2	* ** 5.1444	44.8	Pk	34.3	-22.1	10	67	-	-	74	-7	360	239	V
3	* ** 5.15	27.08	ADV	34.3	-22	10	49.38	54	-4.62	-	-	360	239	V
4	* ** 5.1427	29.22	ADV	34.3	-22.1	10	51.42	54	-2.58	-	-	360	239	V

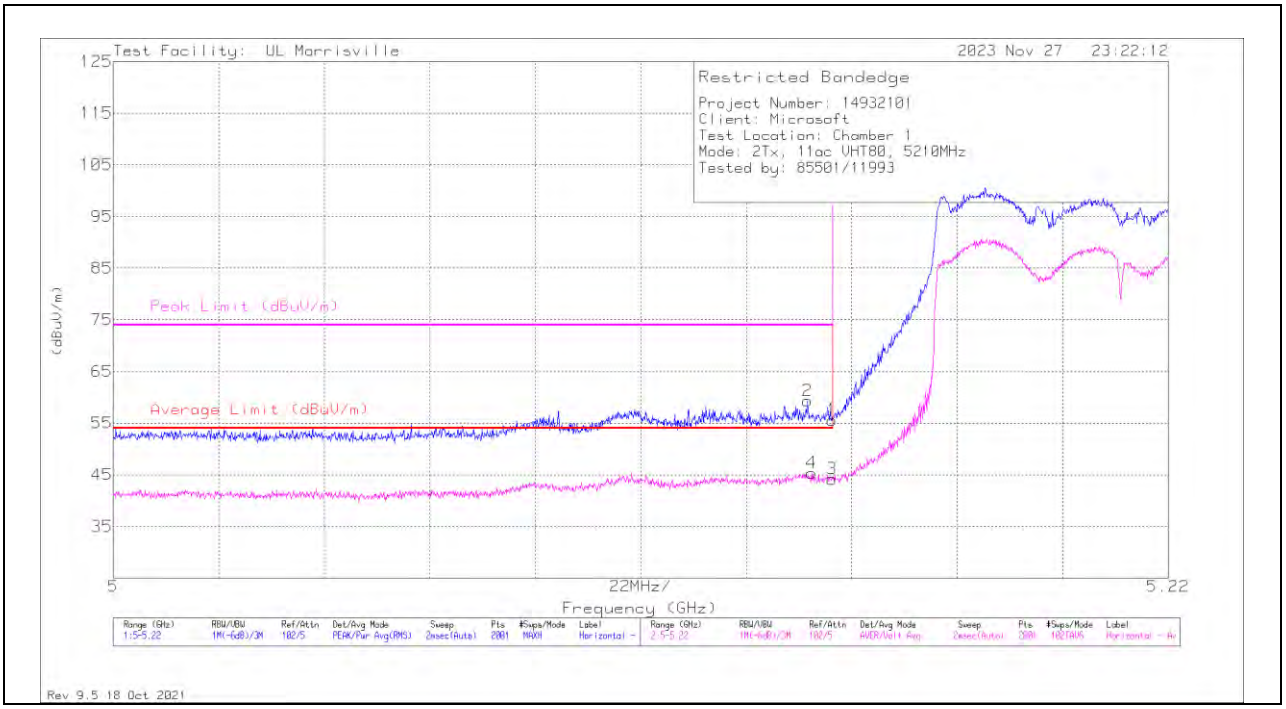
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

10.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

2TX CDD MODE

BANDEDGE (MID CHANNEL)

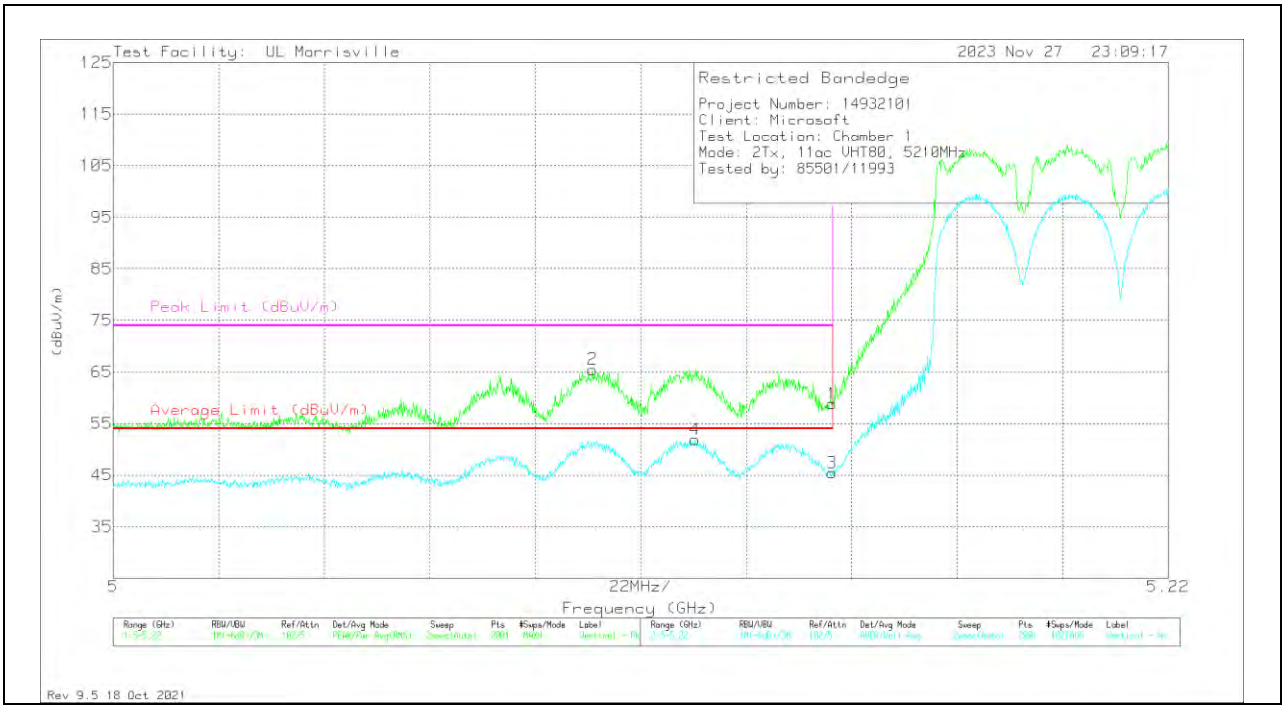
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14993	33.28	Pk	34.3	-22	10	0	55.58	-	-	74	-18.42	7	397	H
2	* ** 5.14476	37.13	Pk	34.3	-22.1	10	0	59.33	-	-	74	-14.67	7	397	H
3	* ** 5.14993	21.66	ADV	34.3	-22	10	.21	44.17	54	-9.83	-	-	7	397	H
4	* ** 5.14564	22.92	ADV	34.3	-22.1	10	.21	45.33	54	-8.67	-	-	7	397	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14993	36.53	Pk	34.3	-22	10	0	58.83	-	-	74	-15.17	322	236	V
2	* ** 5.09999	43.38	Pk	34.2	-22.1	10	0	65.48	-	-	74	-8.52	322	236	V
3	* ** 5.14993	22.92	ADV	34.3	-22	10	.21	45.43	54	-8.57	-	-	322	236	V
4	* ** 5.12133	29.67	ADV	34.2	-22.2	10	.21	51.88	54	-2.12	-	-	322	236	V

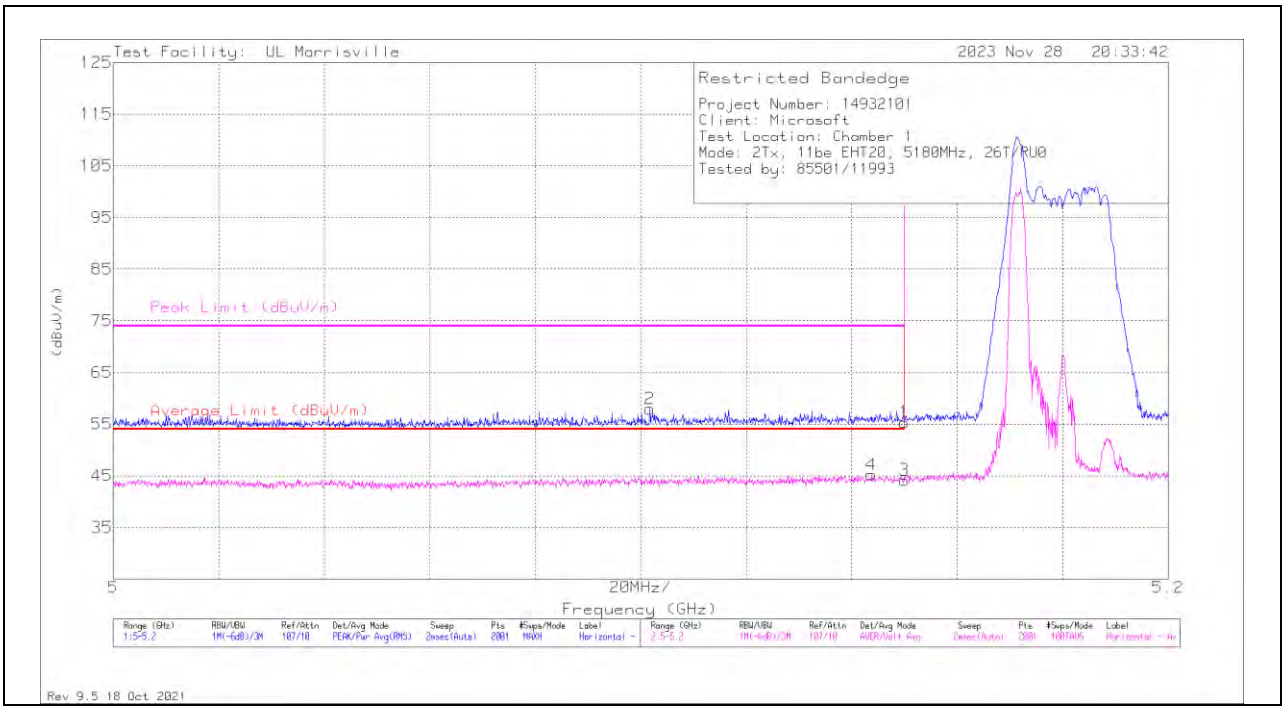
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

10.1.5. TX ABOVE 1 GHz 802.11be EHT20 MODE IN THE 5.2 GHz BAND

2TX CDD MODE – 26T

BANDEDGE (LOW CHANNEL)

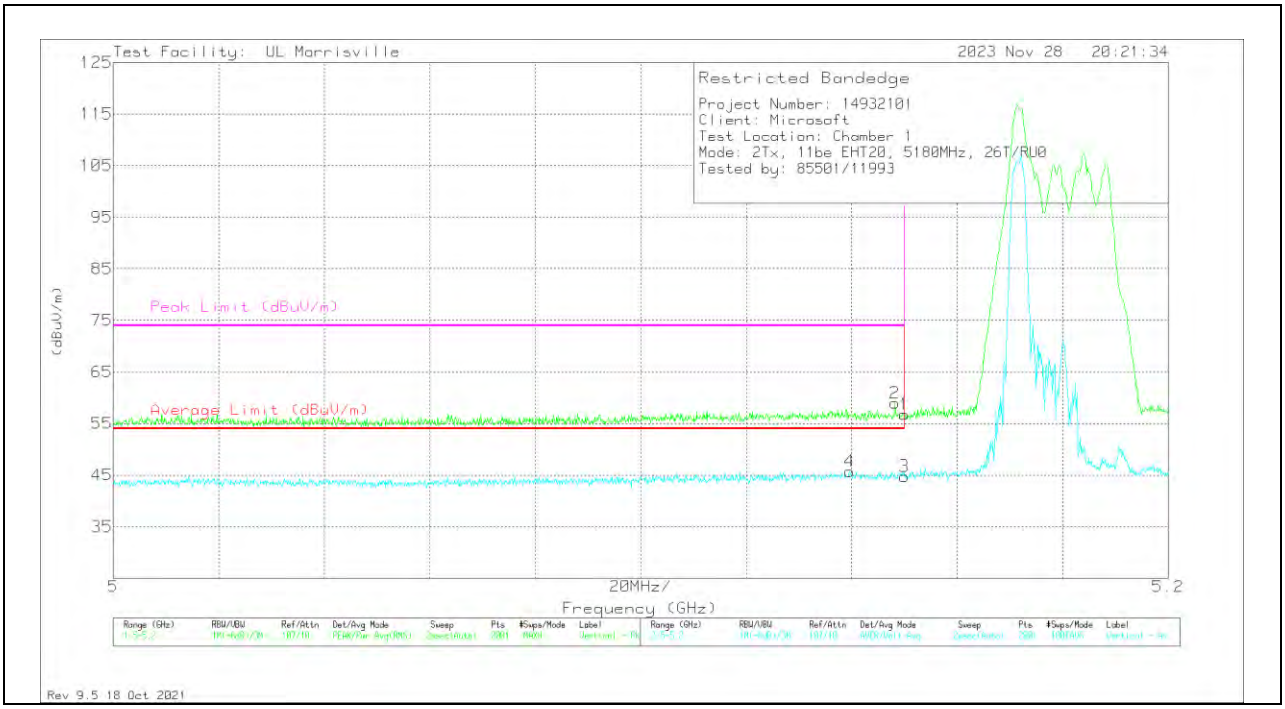
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	33.07	Pk	34.3	-22	10	55.37	-	-	74	-18.63	21	390	H
2	* ** 5.1017	35.85	Pk	34.2	-22.1	10	57.95	-	-	74	-16.05	21	390	H
3	* ** 5.15	21.83	ADV	34.3	-22	10	44.13	54	-9.87	-	-	21	390	H
4	* ** 5.1437	22.98	ADV	34.3	-22.1	10	45.18	54	-8.82	-	-	21	390	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT

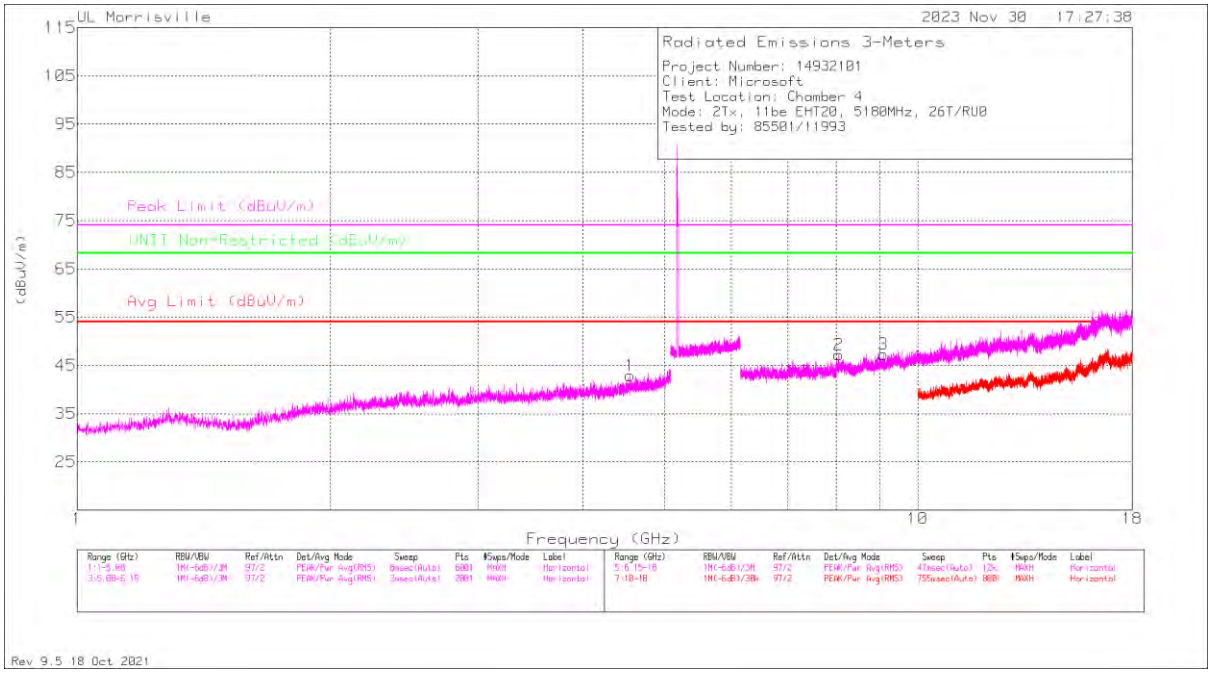


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	34.48	Pk	34.3	-22	10	56.78	-	-	74	-17.22	337	198	V
2	* ** 5.1482	36.67	Pk	34.3	-22	10	58.97	-	-	74	-15.03	337	198	V
3	* ** 5.15	22.42	ADV	34.3	-22	10	44.72	54	-9.28	-	-	337	198	V
4	* ** 5.1396	23.51	ADV	34.3	-22.1	10	45.71	54	-8.29	-	-	337	198	V

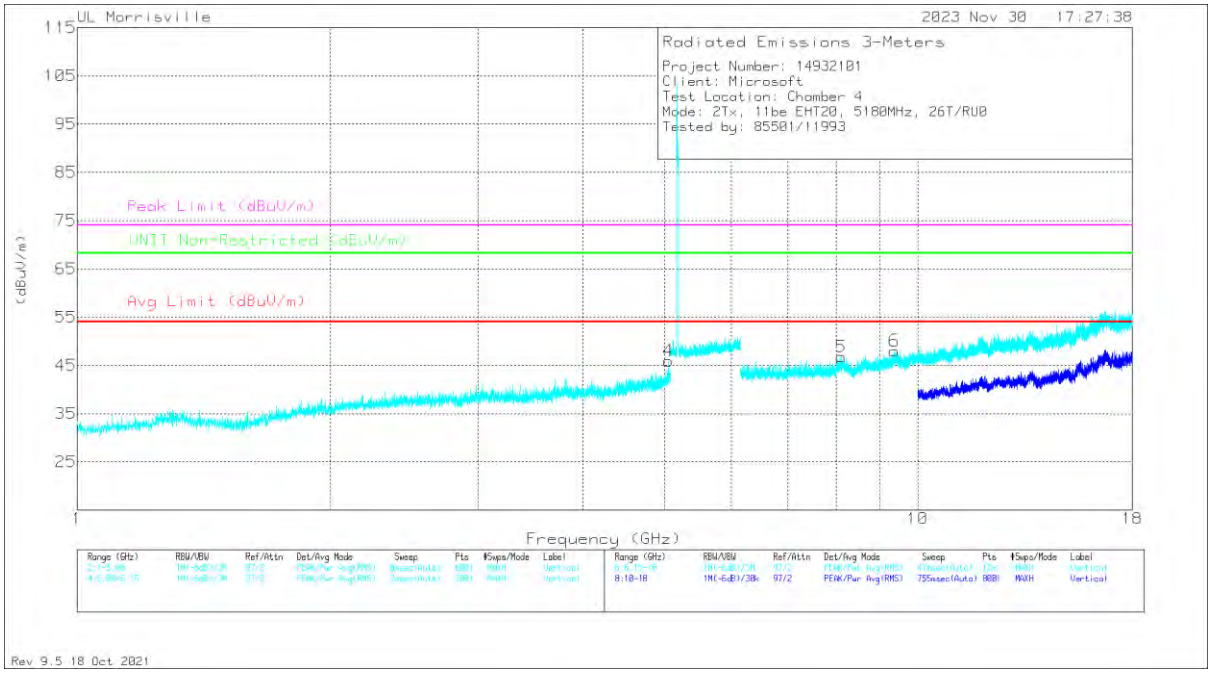
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

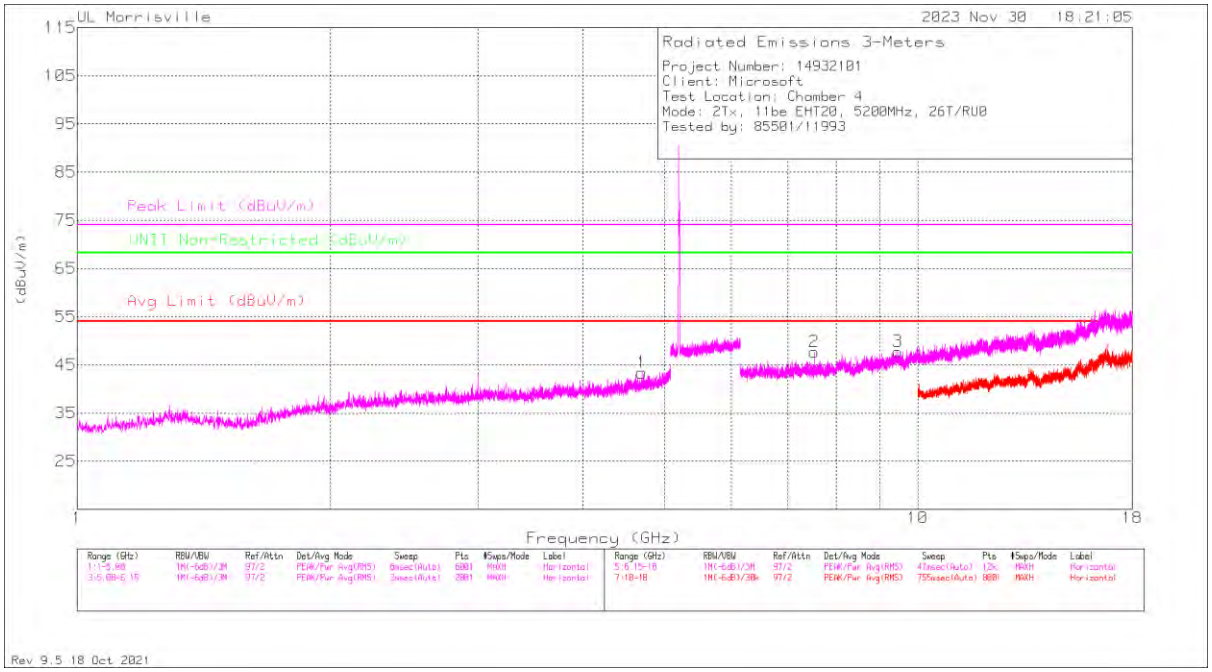
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.54756	40.57	Pk	33.9	-31.6	42.87	54	-11.13	74	-31.13	-	-	0-360	100	H
4	* ** 5.0528	40.9	Pk	34.1	-29.1	45.9	54	-8.1	74	-28.1	-	-	0-360	200	V
2	* ** 8.05588	39.1	Pk	35.8	-27.7	47.2	54	-6.8	74	-26.8	-	-	0-360	100	H
3	* ** 9.10756	36.58	Pk	36.3	-25.6	47.28	54	-6.72	74	-26.72	-	-	0-360	100	H
5	* ** 8.1092	38.28	Pk	35.8	-27.3	46.78	54	-7.22	74	-27.22	-	-	0-360	200	V
6	* ** 9.38209	36.49	Pk	36.6	-25.1	47.99	54	-6.01	74	-26.01	-	-	0-360	200	V

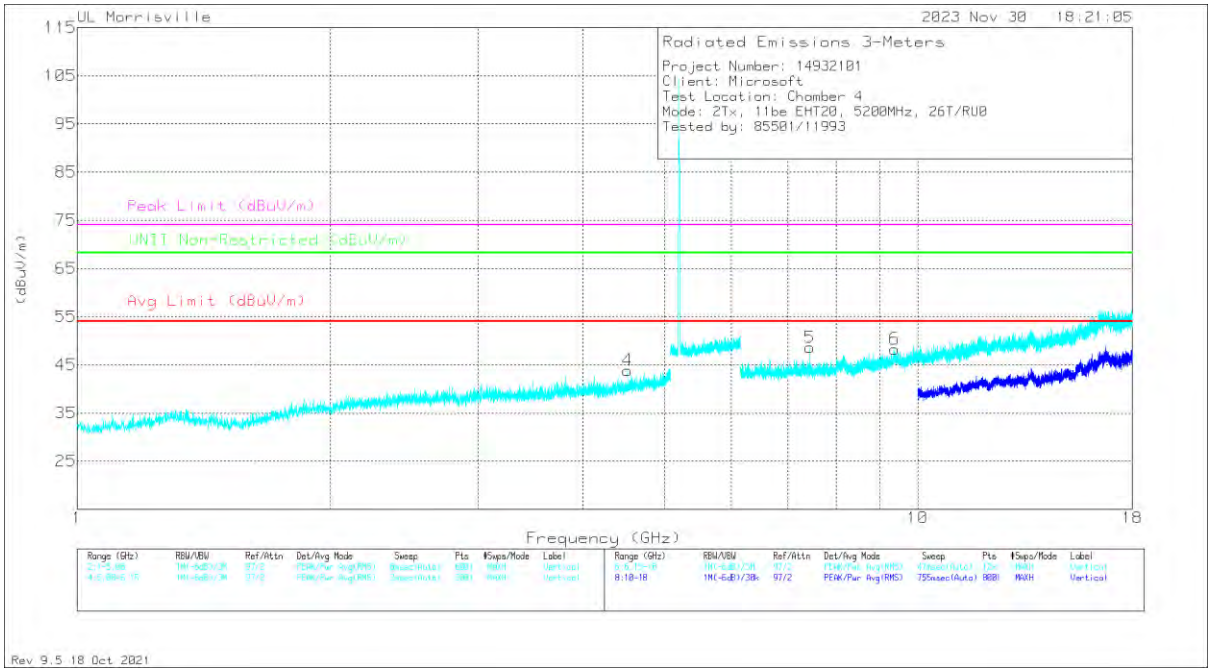
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector

UL LLC
12 Laboratory Drive, Research Triangle Park, NC 27709; USA TEL:(919)549-1400

MID CHANNEL RESULTS



HORIZONTAL



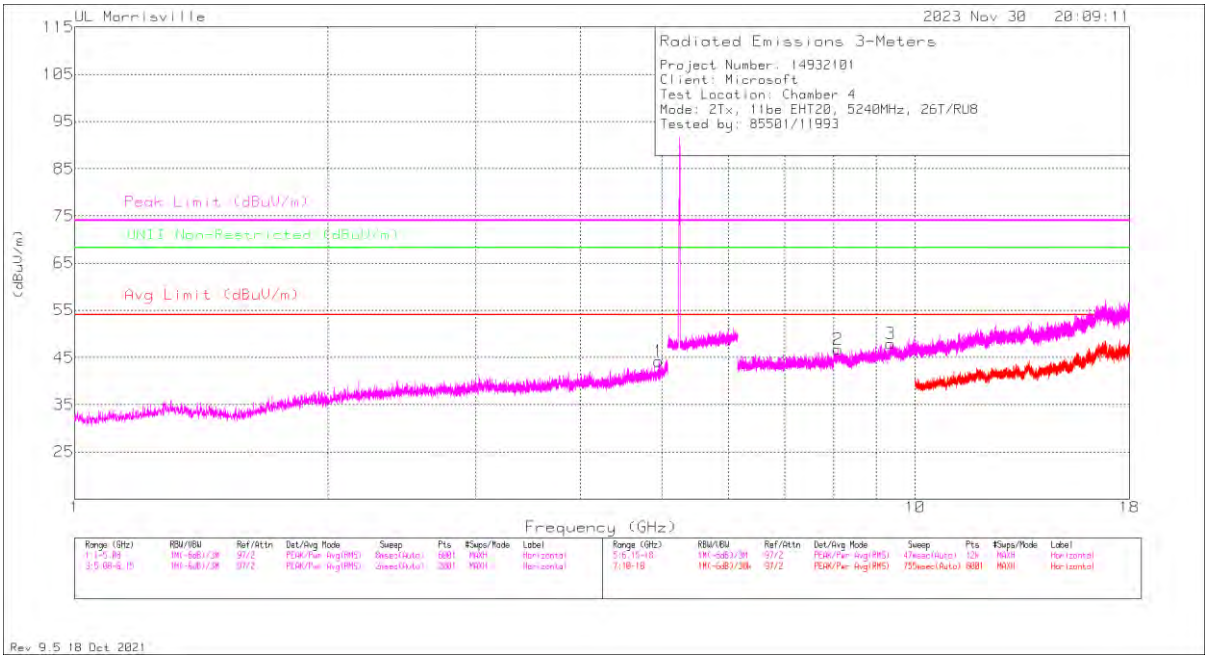
VERTICAL

RADIATED EMISSIONS

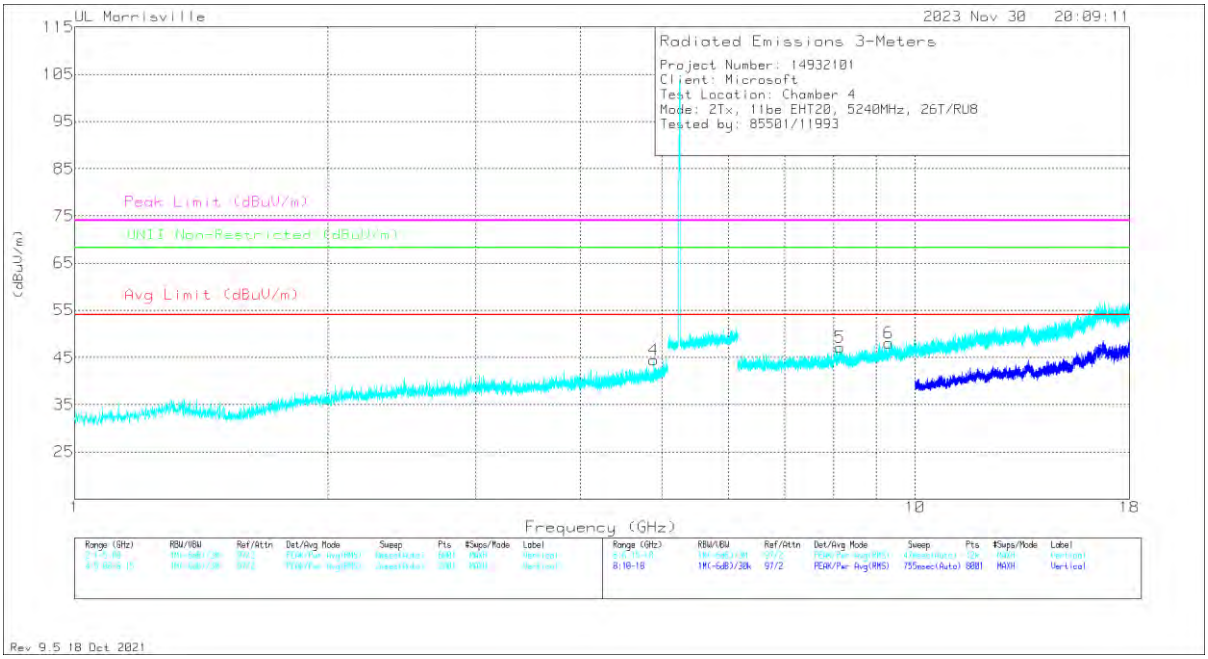
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.6958	40.57	Pk	34.1	-31.3	43.37	54	-10.63	74	-30.63	-	-	0-360	100	H
4	* ** 4.51492	41.43	Pk	33.8	-31.4	43.83	54	-10.17	74	-30.17	-	-	0-360	200	V
2	* ** 7.52756	40.06	Pk	35.7	-28.1	47.66	54	-6.34	74	-26.34	-	-	0-360	100	H
3	* ** 9.468	36.17	Pk	36.7	-25.1	47.77	54	-6.23	74	-26.23	-	-	0-360	100	H
5	* ** 7.44416	47.54	PK-U	35.7	-27.9	55.34	-	-	74	-18.66	-	-	255	185	V
	* ** 7.44554	26	ADV	35.7	-27.8	33.9	54	-20.1	-	-	-	-	255	185	V
6	* ** 9.39209	37.81	PK-U	36.6	-25.5	48.91	-	-	74	-25.09	-	-	6	217	V
	* ** 9.39239	25.03	ADV	36.6	-25.5	36.13	54	-17.87	-	-	-	-	6	217	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
Pk-U – Maximum Peak detector
ADV - Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

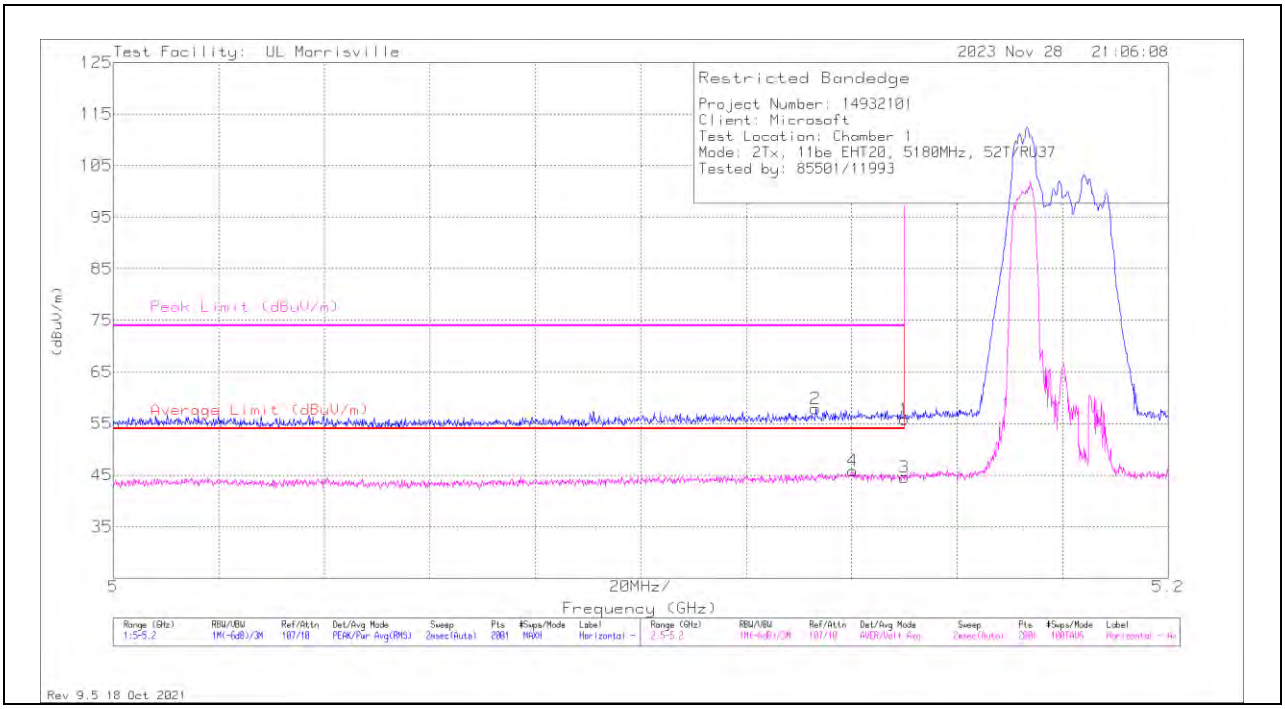
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.95352	40.91	Pk	33.9	-30.6	44.21	54	-9.79	74	-29.79	-	-	0-360	100	H
4	* ** 4.88892	41.66	Pk	34	-31.2	44.46	54	-9.54	74	-29.54	-	-	0-360	200	V
2	* ** 8.09636	37.94	Pk	35.8	-27	46.74	54	-7.26	74	-27.26	-	-	0-360	200	H
3	* ** 9.35641	36.9	Pk	36.5	-25.5	47.9	54	-6.1	74	-26.1	-	-	0-360	200	H
5	* ** 8.14278	38.36	Pk	35.8	-27	47.16	54	-6.84	74	-26.84	-	-	0-360	100	V
6	* ** 9.30325	37.29	PK-U	36.4	-25.4	48.29	-	-	74	-25.71	-	-	0	244	V
	* ** 9.30361	24.73	ADV	36.4	-25.5	35.63	54	-18.37	-	-	-	-	0	244	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
Pk-U – Maximum Peak detector
ADV - Linear Voltage Average

2TX CDD MODE – 52T

BANDEDGE (LOW CHANNEL)

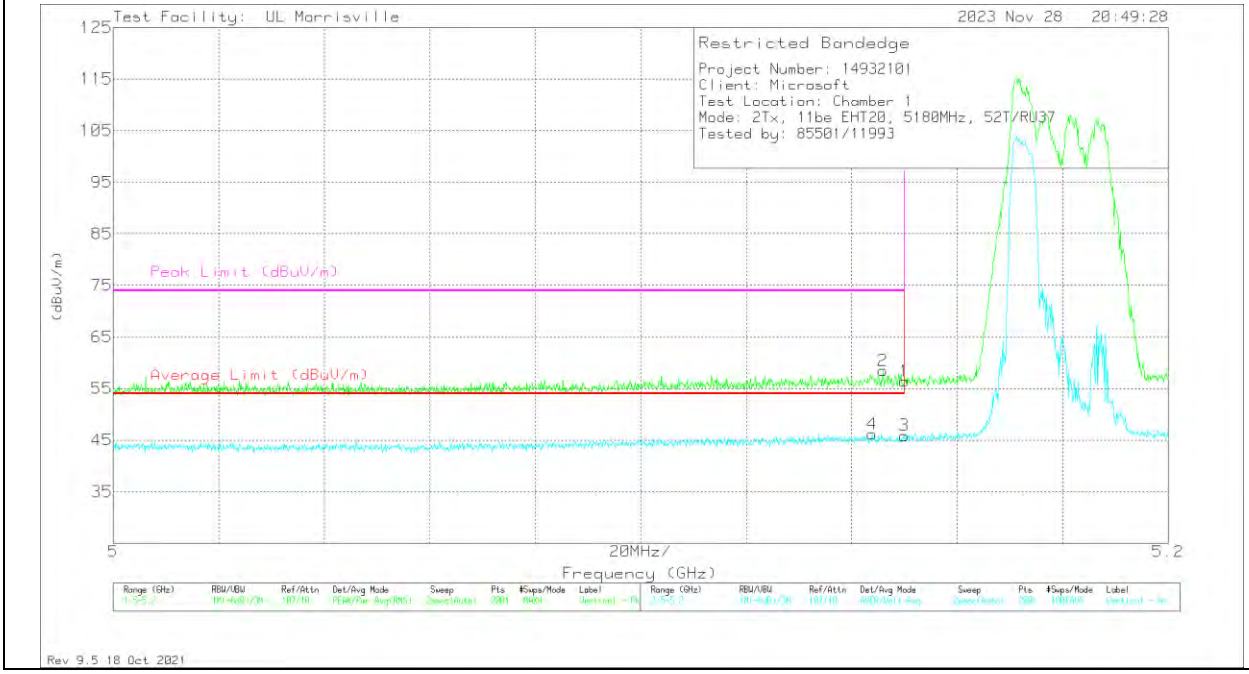
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	33.47	Pk	34.3	-22	10	55.77	-	-	74	-18.23	38	376	H
2	* ** 5.1331	35.64	Pk	34.3	-22.1	10	57.84	-	-	74	-16.16	38	376	H
3	* ** 5.15	22.29	ADV	34.3	-22	10	44.59	54	-9.41	-	-	38	376	H
4	* ** 5.1402	23.64	ADV	34.3	-22.1	10	45.84	54	-8.16	-	-	38	376	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.15	34.09	Pk	34.3	-22	10	56.39	-	-	74	-17.61	348	296	V
2	* ** 5.1459	36.27	Pk	34.3	-22.1	10	58.47	-	-	74	-15.53	348	296	V
3	* ** 5.15	23.57	ADV	34.3	-22	10	45.87	54	-8.13	-	-	348	296	V
4	* ** 5.1439	23.96	ADV	34.3	-22.1	10	46.16	54	-7.84	-	-	348	296	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
ADV - Linear Voltage Average

UL LLC
12 Laboratory Drive, Research Triangle Park, NC 27709; USA TEL:(919)549-1400