

Channel 167

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.750	52.78	-25.50	46.66	31.62	74.00	21.22	H
17855.100	52.51	-25.50	46.66	31.35	74.00	21.49	V
16968.150	51.91	-26.32	42.36	35.86	88.20	36.29	H
16549.200	51.87	-26.87	40.65	38.09	88.20	36.33	V
12529.350	49.36	-31.05	38.99	41.42	74.00	24.64	V
12494.250	49.05	-31.22	38.91	41.36	74.00	24.95	V

Channel 199

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17883.450	52.62	-25.50	46.66	31.46	74.00	21.38	V
17858.700	52.58	-25.50	46.66	31.42	74.00	21.42	V
16843.950	52.12	-26.62	41.49	37.25	88.20	36.08	V
15988.050	52.11	-27.35	38.54	40.92	74.00	21.89	H
13029.300	49.29	-30.13	39.39	40.02	88.20	38.91	V
12370.050	49.03	-31.10	38.94	41.19	74.00	24.97	H

Channel 215

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
16544.700	53.07	-26.87	40.65	39.29	88.20	35.13	V
17834.400	52.90	-25.50	46.66	31.74	74.00	21.10	H
17966.700	52.70	-25.50	46.66	31.54	74.00	21.30	H
16982.100	51.81	-26.32	42.36	35.76	88.20	36.39	V
7131.177	55.70	-26.41	36.25	45.87	88.20	32.50	H
7129.965	55.50	-26.41	36.25	45.67	88.20	32.70	V

802.11ax-160MHz BW MIMO

Channel 15

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.700	52.93	-25.50	46.66	31.77	74.00	21.07	V
17952.750	52.49	-25.50	46.66	31.33	74.00	21.51	V
17114.850	52.23	-26.60	43.36	35.47	88.20	35.97	V
16856.550	51.77	-26.62	41.49	36.90	88.20	36.43	V
5897.183	54.50	-27.65	34.35	47.80	88.20	33.70	H
5914.781	54.50	-27.12	34.35	47.27	88.20	33.70	V

Channel 147

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17937.000	52.96	-25.50	46.66	31.80	74.00	21.04	V
17875.800	52.65	-25.50	46.66	31.49	74.00	21.35	V
15945.300	51.79	-27.35	38.54	40.60	74.00	22.21	H
16866.900	51.70	-26.62	41.49	36.83	88.20	36.50	H
12891.600	48.97	-30.69	39.14	40.52	88.20	39.23	V
12494.250	48.40	-31.22	38.91	40.71	74.00	25.60	V

Channel 79

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.950	53.02	-25.50	46.66	31.86	74.00	20.98	H
17919.450	52.73	-25.50	46.66	31.57	74.00	21.27	V
17013.600	52.02	-26.32	42.36	35.97	88.20	36.18	H
16538.400	51.98	-26.96	39.82	39.12	88.20	36.22	V
12564.000	49.09	-31.05	38.99	41.15	74.00	24.91	V
12496.050	48.85	-31.22	38.91	41.16	74.00	25.15	H

Channel 143

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.450	53.23	-25.50	46.66	32.07	74.00	20.77	V
17843.850	52.77	-25.50	46.66	31.61	74.00	21.23	H
16558.650	51.82	-26.87	40.65	38.04	88.20	36.38	V
15934.050	51.79	-27.35	38.54	40.60	74.00	22.21	V
12559.500	49.31	-31.05	38.99	41.37	74.00	24.69	V
12520.350	48.81	-31.22	38.91	41.12	74.00	25.19	H

Channel 207

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17922.600	53.44	-25.50	46.66	32.28	74.00	20.56	H
17951.850	52.49	-25.50	46.66	31.33	74.00	21.51	V
16862.400	52.26	-26.62	41.49	37.39	88.20	35.94	H
15941.250	52.05	-27.35	38.54	40.86	74.00	21.95	H
7135.797	56.30	-26.41	36.25	46.47	88.20	31.90	H
7145.571	56.00	-26.41	36.25	46.17	88.20	32.20	V

Note: The measurement results showed here are worst cases

Measurement Results for UT18a MIMO:
Average
802.11ax-20 MHz BW

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5924.42	42.50	-27.12	34.35	35.26	68.00	25.70	H
17929.35	39.04	-25.50	46.66	17.88	54.00	14.96	H
13363.20	36.53	-29.49	39.71	26.31	54.00	17.47	V
13288.50	36.18	-29.67	39.55	26.30	54.00	17.82	V
12673.80	35.49	-30.47	39.06	26.90	54.00	18.51	V
5920.37	42.95	-27.12	34.35	35.27	68.00	25.25	V

Channel 45

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.95	39.04	-25.50	46.66	17.88	54.00	14.96	V
17989.20	39.01	-25.50	46.66	17.85	54.00	14.99	H
13269.60	36.34	-29.67	39.55	26.46	54.00	17.66	V
13344.30	36.11	-29.49	39.71	25.89	54.00	17.89	H
11778.75	35.28	-31.99	38.98	28.29	54.00	18.72	V
11854.35	35.26	-31.85	39.05	28.06	54.00	18.74	V

Channel 93

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.65	38.79	-25.50	46.66	17.63	54.00	15.21	H
17985.15	38.40	-25.50	46.66	17.24	54.00	15.60	V
13303.35	36.15	-29.49	39.71	25.93	54.00	17.85	V
13324.95	35.95	-29.49	39.71	25.73	54.00	18.05	V
10886.40	35.71	-32.33	38.59	29.45	54.00	18.29	H
11293.65	35.33	-32.36	38.77	28.93	54.00	18.67	H

Channel 97

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.85	38.74	-25.50	46.66	17.58	54.00	15.26	V
17978.40	38.51	-25.50	46.66	17.35	54.00	15.49	V
13292.55	35.99	-29.49	39.71	25.77	54.00	18.01	H
13280.85	35.80	-29.67	39.55	25.92	54.00	18.20	V
11292.30	35.25	-32.36	38.77	28.85	54.00	18.75	H
10880.10	35.24	-32.33	38.59	28.98	54.00	18.76	H

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17704.80	38.70	-25.74	45.95	18.49	54.00	15.30	V
17992.35	38.17	-25.50	46.66	17.01	54.00	15.83	V
13302.90	36.13	-29.49	39.71	25.91	54.00	17.87	V
13280.85	35.78	-29.67	39.55	25.90	54.00	18.22	V
11764.35	35.59	-31.99	38.98	28.60	54.00	18.41	H
11767.50	35.25	-31.99	38.98	28.26	54.00	18.75	H

Channel 113

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17999.10	38.02	-25.50	46.66	16.86	54.00	15.98	H
17718.30	37.93	-25.74	45.95	17.72	54.00	16.07	V
13284.45	36.24	-29.67	39.55	26.36	54.00	17.76	H
13289.85	35.98	-29.67	39.55	26.10	54.00	18.02	H
11858.85	35.29	-31.85	39.05	28.09	54.00	18.71	H
11841.75	35.15	-31.85	39.05	27.95	54.00	18.85	H

Channel 117

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17785.80	38.03	-25.50	46.66	16.87	54.00	15.97	V
17719.20	37.82	-25.74	45.95	17.61	54.00	16.18	V
13288.50	35.56	-29.67	39.55	25.68	54.00	18.44	V
13286.25	35.53	-29.67	39.55	25.65	54.00	18.47	H
11294.55	35.36	-32.36	38.77	28.96	54.00	18.64	H
11770.20	35.15	-31.99	38.98	28.16	54.00	18.85	H

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17719.65	38.32	-25.74	45.95	18.11	54.00	15.68	H
17990.10	38.11	-25.50	46.66	16.95	54.00	15.89	H
13293.00	36.18	-29.49	39.71	25.96	54.00	17.82	V
13397.40	35.83	-29.49	39.71	25.61	54.00	18.17	V
10890.45	35.06	-32.33	38.59	28.80	54.00	18.94	V
10899.90	34.98	-32.82	38.70	29.10	54.00	19.02	H

Channel 181

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.40	38.21	-25.50	46.66	17.05	54.00	15.79	H
17709.30	38.11	-25.74	45.95	17.90	54.00	15.89	V
13378.95	36.01	-29.49	39.71	25.79	54.00	17.99	V
13347.90	35.87	-29.49	39.71	25.65	54.00	18.13	H
10891.35	35.56	-32.33	38.59	29.30	54.00	18.44	V
11868.75	35.38	-31.85	39.05	28.18	54.00	18.62	V

Channel 189

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.45	38.97	-25.50	46.66	17.81	54.00	15.03	V
17907.75	38.78	-25.50	46.66	17.62	54.00	15.22	H
13289.40	36.33	-29.67	39.55	26.45	54.00	17.67	V
13323.60	36.16	-29.49	39.71	25.94	54.00	17.84	H
11298.15	35.38	-32.36	38.77	28.98	54.00	18.62	V
12600.90	35.17	-31.05	38.99	27.23	54.00	18.83	V

Channel 205

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.95	38.55	-25.50	46.66	17.39	54.00	15.45	H
17983.80	38.41	-25.50	46.66	17.25	54.00	15.59	V
13396.05	36.18	-29.49	39.71	25.96	54.00	17.82	V
13308.75	35.92	-29.49	39.71	25.70	54.00	18.08	V
11298.60	35.11	-32.36	38.77	28.71	54.00	18.89	V
11315.70	35.02	-32.36	38.77	28.62	54.00	18.98	V

Channel 223

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
7125.02	53.79	-27.12	34.35	35.26	68.00	14.41	H
17978.85	39.64	-25.50	46.66	18.48	54.00	14.36	V
13299.75	36.46	-29.49	39.71	26.24	54.00	17.54	H
13303.80	36.45	-29.49	39.71	26.23	54.00	17.55	H
12698.10	35.58	-30.47	39.06	26.99	54.00	18.42	H
7125.19	53.39	-27.12	34.35	35.27	68.20	14.81	H

Peak
802.11ax-20 MHz BW

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5924.76	53.30	-27.12	34.35	46.06	88.20	34.90	H
17366.40	49.63	-25.95	44.35	31.22	88.20	38.57	H
17136.90	48.87	-26.60	43.36	32.11	88.20	39.33	V
16932.15	47.92	-26.32	42.36	31.87	88.20	40.28	H
11384.55	46.37	-32.42	38.79	40.00	74.00	27.63	H
5918.10	54.40	-26.41	36.25	54.47	88.20	33.80	H

Channel 45

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17305.65	50.04	-25.95	44.35	31.63	88.20	38.16	H
17241.75	49.78	-25.95	44.35	31.37	88.20	38.42	V
17175.15	47.96	-26.60	43.36	31.20	88.20	40.24	H
17138.70	47.09	-26.60	43.36	30.33	88.20	41.11	H
11851.20	46.19	-31.85	39.05	38.99	74.00	27.81	V
10862.10	45.68	-32.33	38.59	39.42	74.00	28.32	V

Channel 93

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17257.50	49.74	-25.95	44.35	31.33	88.20	38.46	V
17227.80	49.40	-25.95	44.35	30.99	88.20	38.80	V
13957.20	47.77	-29.51	41.30	35.98	88.20	40.43	V
17158.05	47.66	-26.60	43.36	30.90	88.20	40.54	H
11854.80	46.09	-31.85	39.05	38.89	74.00	27.91	H
11300.85	46.00	-32.36	38.77	39.60	74.00	28.00	H

Channel 97

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17630.10	49.28	-25.74	45.95	29.07	88.20	38.92	H
17235.00	48.65	-25.95	44.35	30.24	88.20	39.55	H
13327.20	47.27	-29.49	39.71	37.05	74.00	26.73	V
17130.15	47.27	-26.60	43.36	30.51	88.20	40.93	H
11794.05	46.03	-31.99	38.98	39.04	74.00	27.97	H
11914.65	46.00	-31.48	39.09	38.39	74.00	28.00	V

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17256.60	49.06	-25.95	44.35	30.65	88.20	39.14	V
17349.30	48.92	-25.95	44.35	30.51	88.20	39.28	V
17158.95	47.63	-26.60	43.36	30.87	88.20	40.57	H
17155.35	47.33	-26.60	43.36	30.57	88.20	40.87	H
10885.05	46.42	-32.33	38.59	40.16	74.00	27.58	V
10443.60	45.66	-33.22	38.19	40.69	88.20	42.54	H

Channel 113

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17225.10	49.09	-25.95	44.35	30.68	88.20	39.11	H
17664.75	49.09	-25.74	45.95	28.88	88.20	39.11	H
17131.95	48.01	-26.60	43.36	31.25	88.20	40.19	H
17156.70	47.23	-26.60	43.36	30.47	88.20	40.97	V
11315.70	46.94	-32.36	38.77	40.54	74.00	27.06	V
9426.60	46.52	-32.95	37.91	41.55	74.00	27.48	V

Channel 117

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17227.35	48.63	-25.95	44.35	30.22	88.20	39.57	V
17239.50	48.42	-25.95	44.35	30.01	88.20	39.78	H
17071.65	47.20	-26.60	43.36	30.44	88.20	41.00	V
17136.90	46.94	-26.60	43.36	30.18	88.20	41.26	H
10123.20	45.92	-33.45	38.13	41.24	88.20	42.28	H
9597.60	45.91	-33.06	37.97	41.00	88.20	42.29	H

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17647.65	48.70	-25.74	45.95	28.49	88.20	39.50	H
17807.85	48.13	-25.50	46.66	26.97	74.00	25.87	V
17125.65	48.12	-26.60	43.36	31.36	88.20	40.08	H
17168.85	46.90	-26.60	43.36	30.14	88.20	41.30	H
13079.25	46.64	-30.13	39.39	37.37	88.20	41.56	H
11285.55	45.95	-32.36	38.77	39.55	74.00	28.05	V

Channel 181

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.85	49.26	-25.50	46.66	28.10	74.00	24.74	V
17226.45	48.59	-25.95	44.35	30.18	88.20	39.61	V
17143.20	47.83	-26.60	43.36	31.07	88.20	40.37	V
17159.85	47.29	-26.60	43.36	30.53	88.20	40.91	V
10148.40	46.45	-33.45	38.13	41.77	88.20	41.75	H
12940.65	45.74	-30.49	39.24	36.99	88.20	42.46	H

Channel 189

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17231.85	49.61	-25.95	44.35	31.20	88.20	38.59	V
17340.75	49.34	-25.95	44.35	30.93	88.20	38.86	V
17122.50	47.55	-26.60	43.36	30.79	88.20	40.65	V
17136.90	47.47	-26.60	43.36	30.71	88.20	40.73	H
9621.90	45.94	-33.06	37.97	41.03	88.20	42.26	H
11839.95	45.88	-31.85	39.05	38.68	74.00	28.12	H

Channel 205

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.40	49.37	-25.50	46.66	28.21	74.00	24.63	H
17998.65	49.19	-25.50	46.66	28.03	74.00	24.81	H
17151.75	47.99	-26.60	43.36	31.23	88.20	40.21	V
17150.85	47.16	-26.60	43.36	30.40	88.20	41.04	H
12633.30	45.91	-31.05	38.99	37.97	74.00	28.09	H
12681.00	45.85	-30.47	39.06	37.26	74.00	28.15	V

Channel 223

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
7125.02	64.30	-26.41	36.25	54.47	88.20	23.90	H
17976.60	49.87	-25.50	46.66	28.71	74.00	24.13	V
17040.15	48.82	-26.32	42.36	32.77	88.20	39.38	H
16650.00	48.74	-26.87	40.65	34.96	88.20	39.46	V
11286.45	45.80	-32.36	38.77	39.40	74.00	28.20	H
7125.19	63.56	-26.41	36.25	54.47	88.20	24.64	V

A.9. Band Edges Compliance

A9.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit	
FCC 47 CFR Part 15.407	outside of the 5.925-7.125 GHz band	-27dBm/MHz

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

The measurement is made according to KDB 789033 and KDB 987594.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5955 MHz	Fig.194	P
	7115 MHz	Fig.195	P
802.11ax 20 MHz BW	5955 MHz	Fig.196	P
	7115 MHz	Fig.197	P
802.11ax 40 MHz BW	5965 MHz	Fig.198	P
	7085 MHz	Fig.199	P
802.11ax 80 MHz BW	5985 MHz	Fig.200	P
	7025 MHz	Fig.201	P
802.11ax 160 MHz BW	6025 MHz	Fig.202	P
	6985 MHz	Fig.203	P

Measurement Result for UT18a:

Mode	Channel	Test Results	Conclusion
802.11ax 20 MHz BW	5955 MHz	Fig.204	P
	7115 MHz	Fig.205	P

Conclusion: PASS

Test graphs as below:

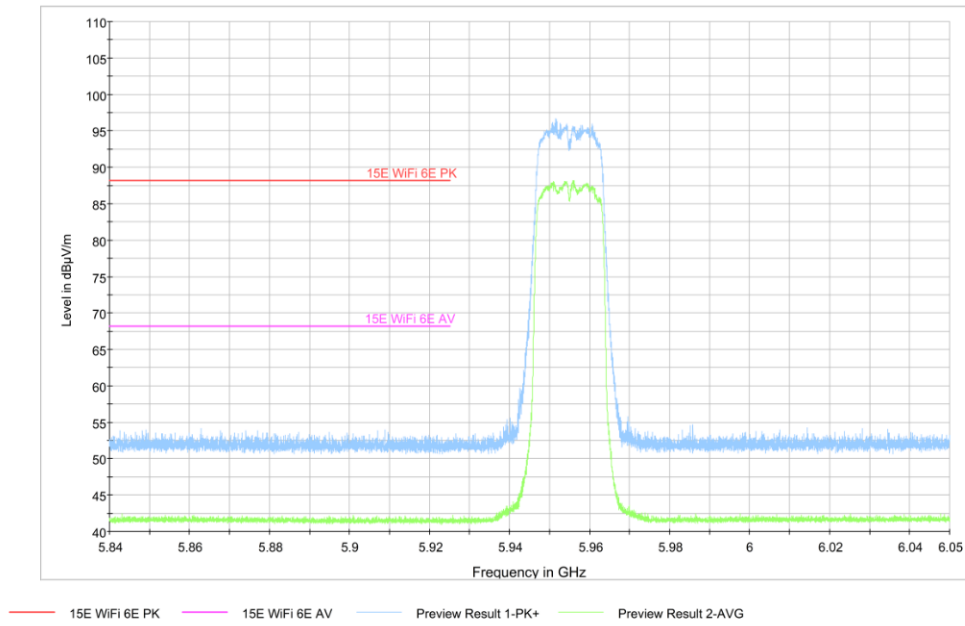


Fig.194 Band Edges (802.11a, 5955MHz)

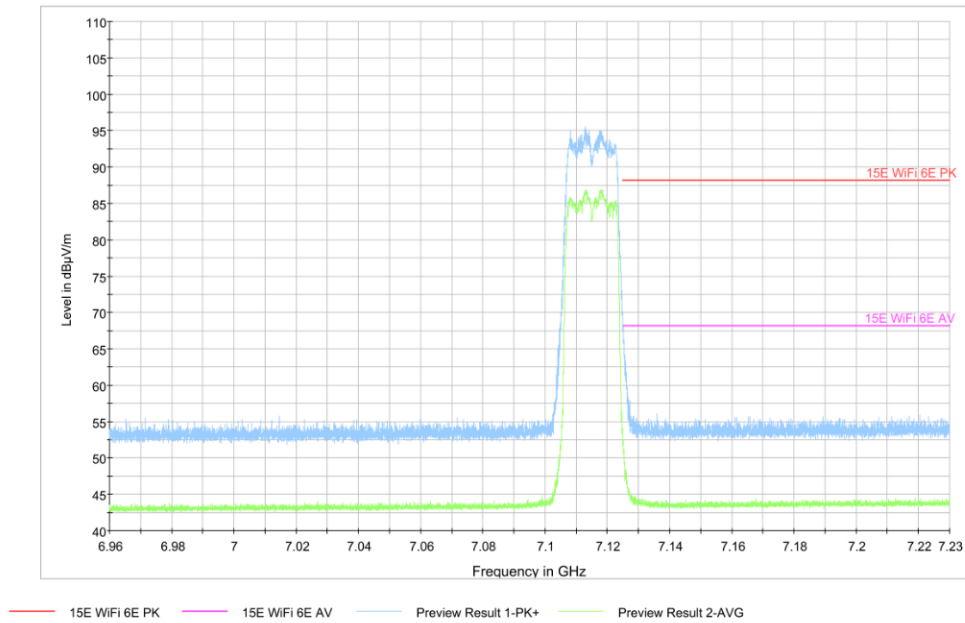


Fig.195 Band Edges (802.11a, 7115MHz)

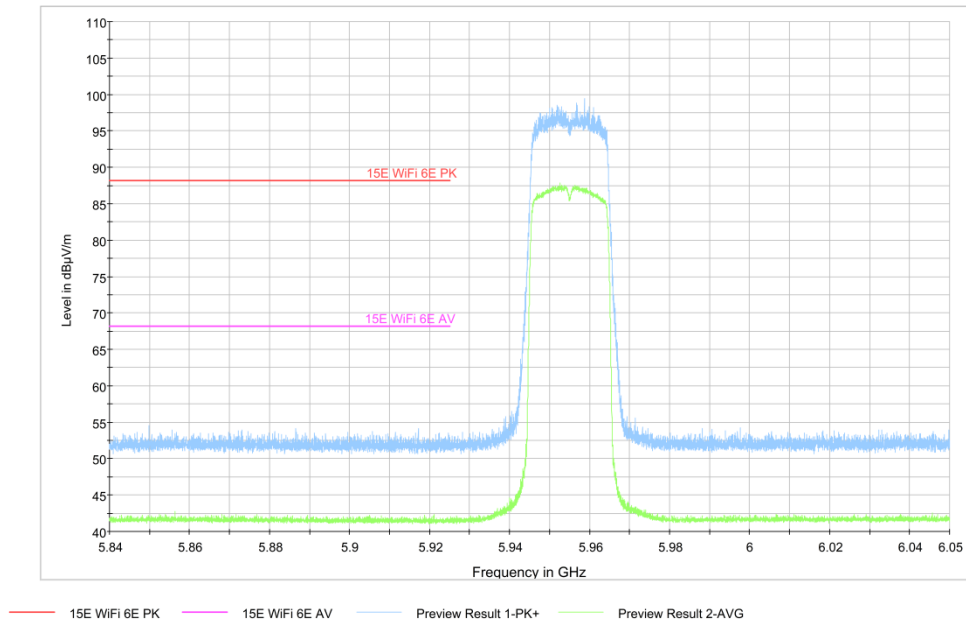


Fig.196 Band Edges (802.11ax VHT-20, 5955MHz)

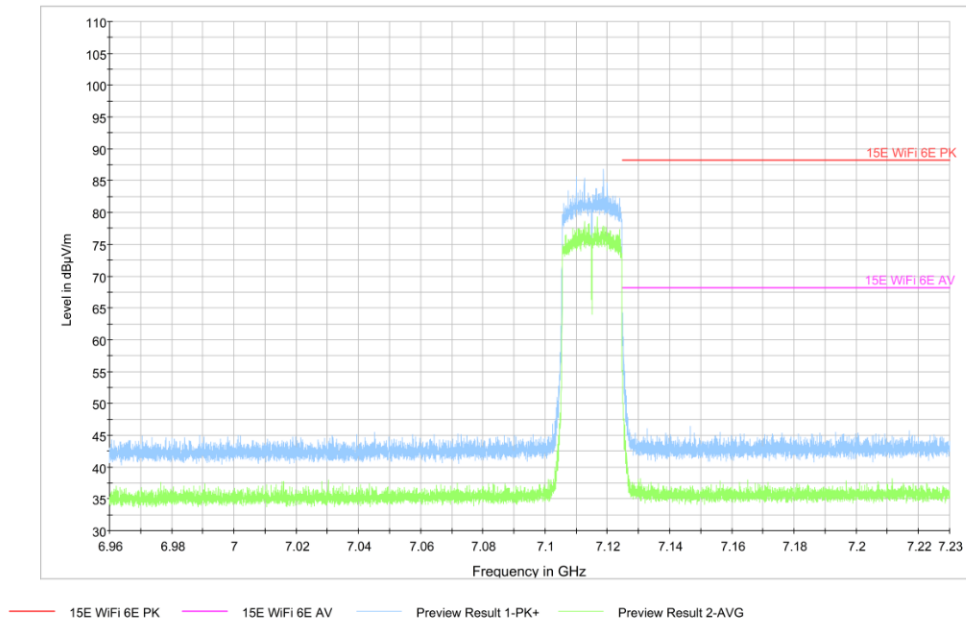


Fig.197 Band Edges (802.11ax VHT-20, 7115MHz)

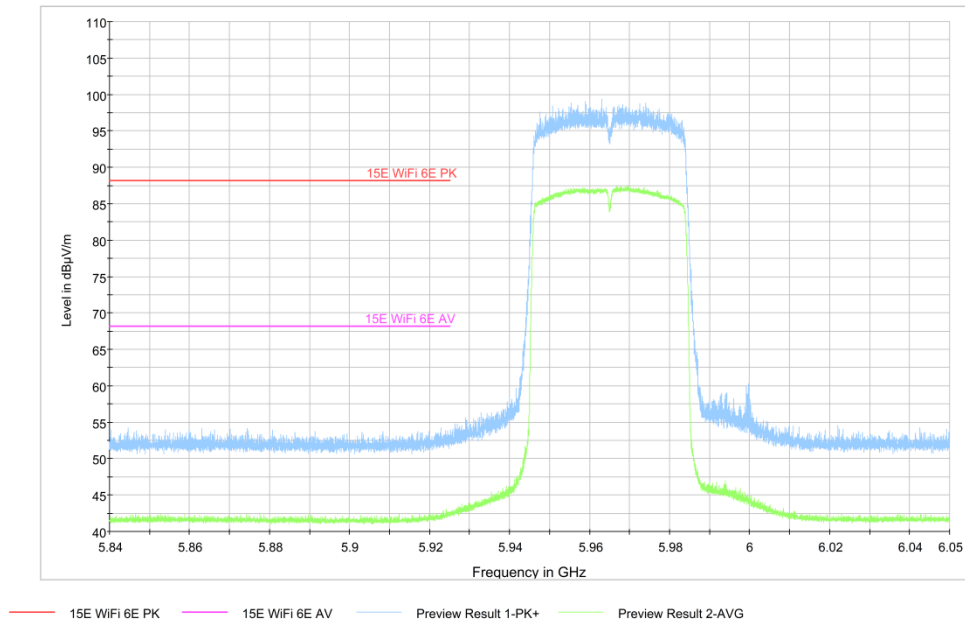


Fig.198 Band Edges (802.11ax VHT-40, 5965MHz)

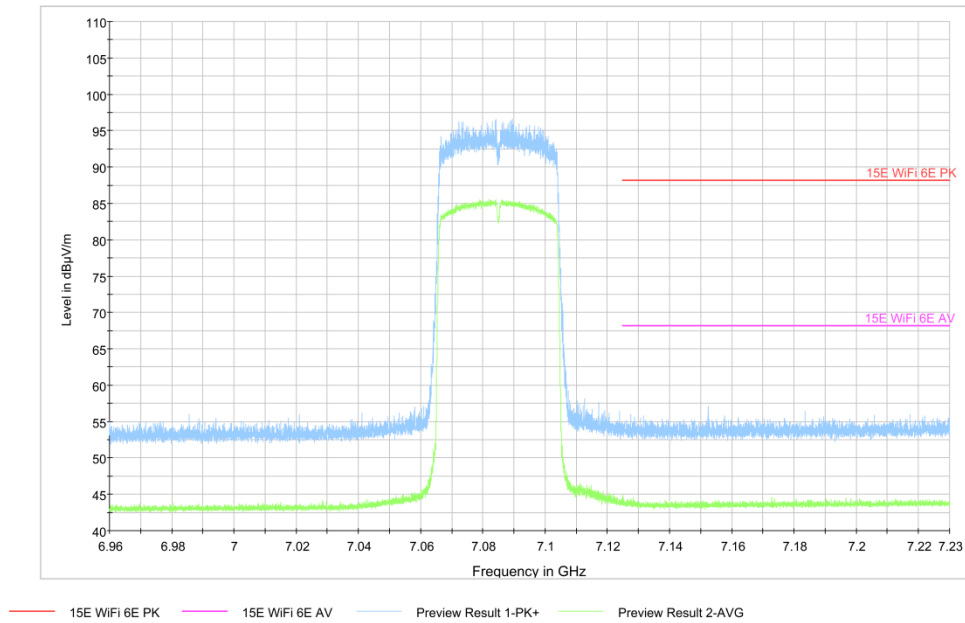


Fig.199 Band Edges (802.11ax VHT-40, 7085MHz)

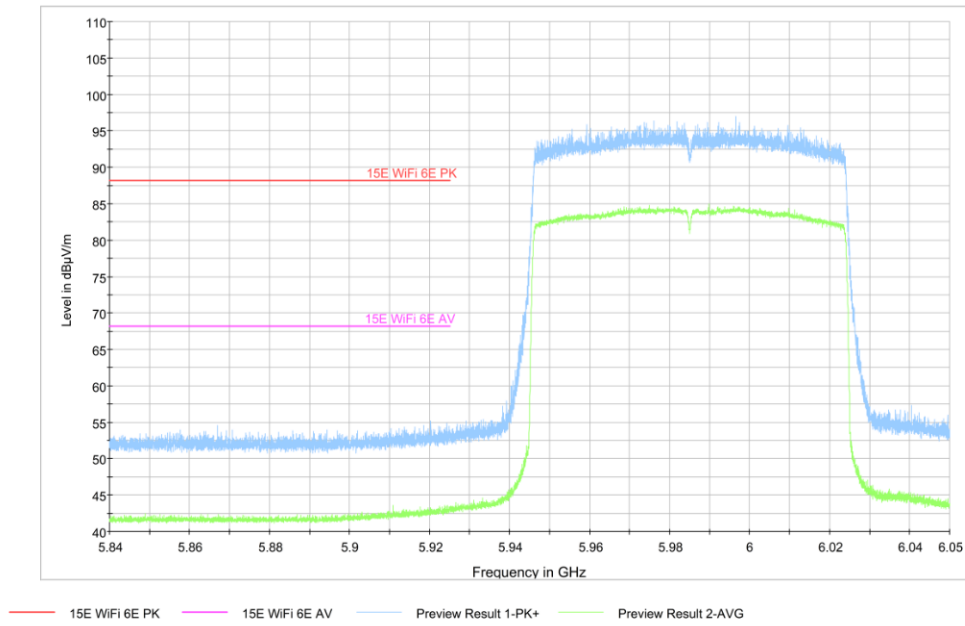


Fig.200 Band Edges (802.11ax VHT-80, 5985MHz)

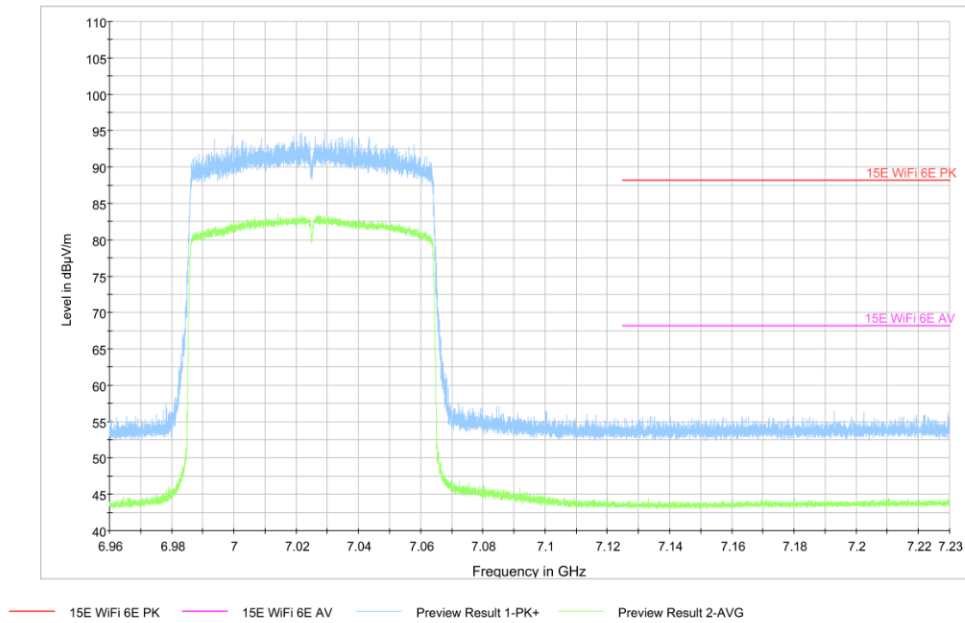


Fig.201 Band Edges (802.11ax VHT-80, 7025MHz)

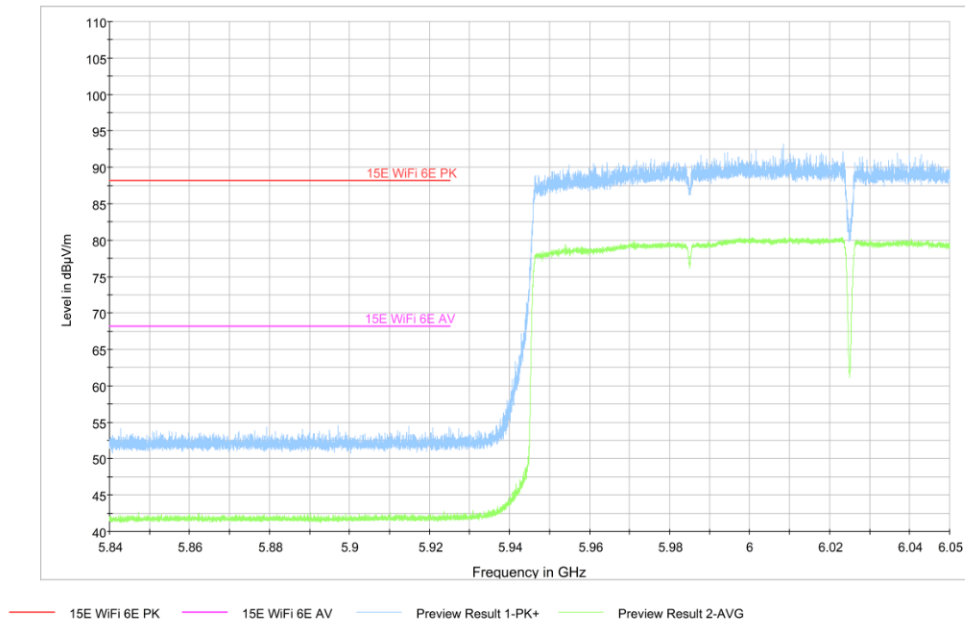


Fig.202 Band Edges (802.11ax VHT-160, 6025MHz)

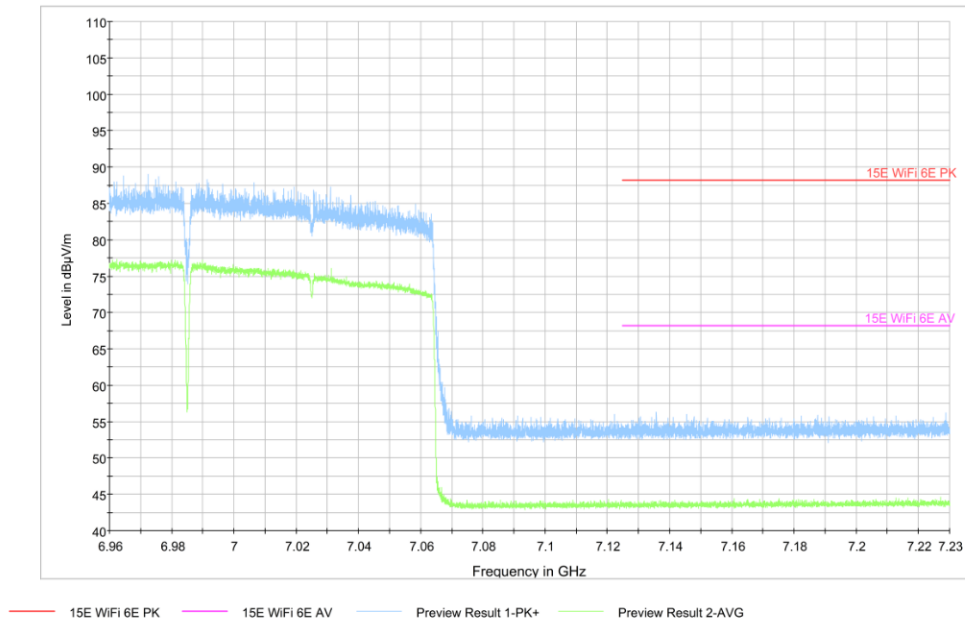


Fig.203 Band Edges (802.11ax VHT-160, 6985MHz)

Measurement Results for UT18a:

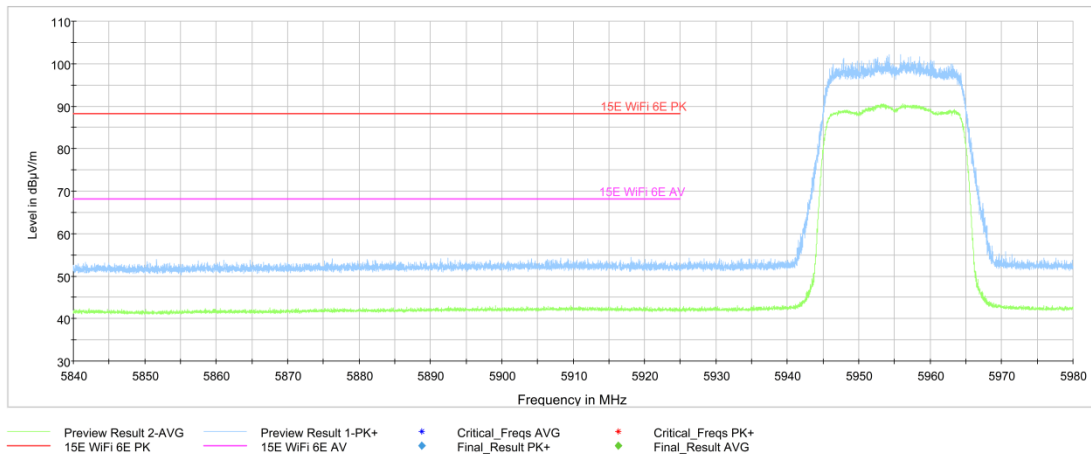


Fig.204 Band Edges (802.11ax VHT-20, 5955MHz)

Measurement Results for UT18a:

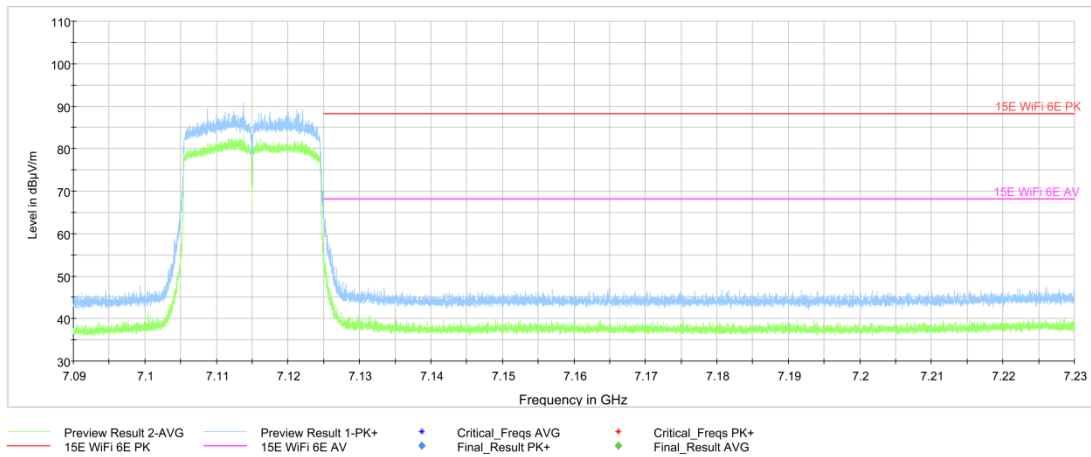


Fig.205 Band Edges (802.11ax VHT-20, 7115MHz)

A.10. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.08\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.186	Fig.187	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.186	Fig.187	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: PASS

Test graphs as below:

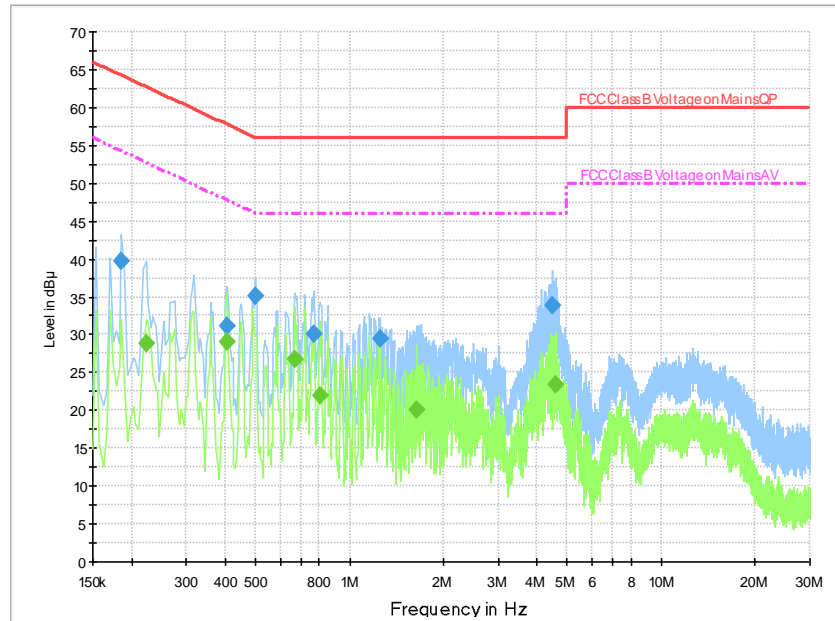


Fig.206 Conducted Emission(802.11ax, Ch1, TX)

Final Result 1:

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	39.6	5000.0	9.000	On	L1	19.8	24.6	64.2
0.406000	31.2	5000.0	9.000	On	N	19.8	26.5	57.7
0.498000	35.0	5000.0	9.000	On	N	19.9	21.0	56.0
0.770000	30.1	5000.0	9.000	On	N	19.6	25.9	56.0
1.254000	29.5	5000.0	9.000	On	N	19.6	26.5	56.0
4.470000	33.8	5000.0	9.000	On	L1	19.6	22.2	56.0

Final Result 2:

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.222000	28.7	5000.0	9.000	On	L1	19.8	24.0	52.7
0.406000	29.0	5000.0	9.000	On	N	19.8	18.8	47.7
0.666000	26.7	5000.0	9.000	On	N	19.6	19.3	46.0
0.802000	22.0	5000.0	9.000	On	N	19.6	24.0	46.0
1.650000	20.1	5000.0	9.000	On	N	19.6	25.9	46.0
4.566000	23.5	5000.0	9.000	On	L1	19.5	22.5	46.0

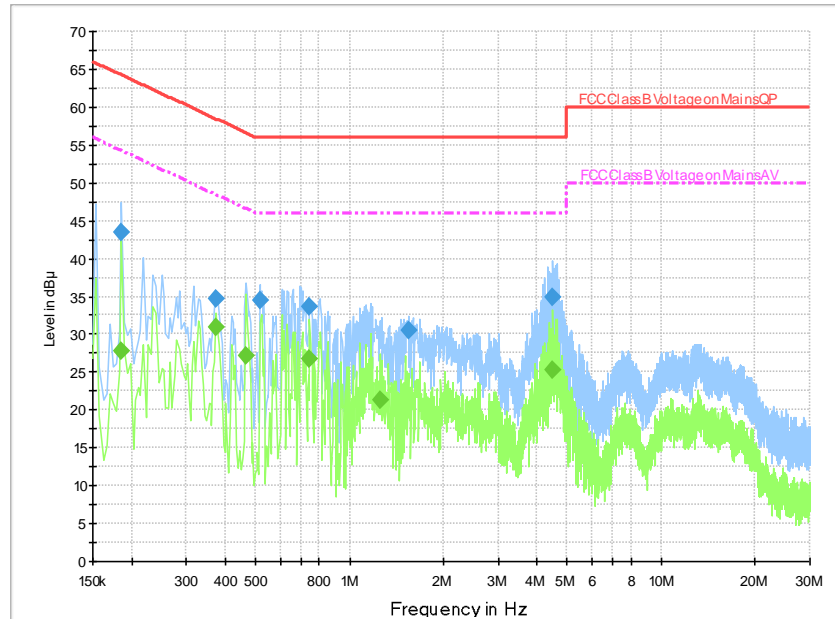


Fig.207 Conducted Emission(802.11ax, CH1 IDLE)

Final Result 1:

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	43.4	5000.0	9.000	On	L1	19.8	20.8	64.2
0.374000	34.7	5000.0	9.000	On	N	19.8	23.8	58.4
0.514000	34.5	5000.0	9.000	On	N	19.8	21.5	56.0
0.746000	33.7	5000.0	9.000	On	N	19.6	22.3	56.0
1.554000	30.5	5000.0	9.000	On	N	19.6	25.5	56.0
4.502000	34.9	5000.0	9.000	On	N	19.5	21.1	56.0

Final Result 2:

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	27.7	5000.0	9.000	On	L1	19.8	26.5	54.2
0.374000	30.9	5000.0	9.000	On	N	19.8	17.5	48.4
0.466000	27.2	5000.0	9.000	On	N	19.8	19.4	46.6
0.746000	26.8	5000.0	9.000	On	N	19.6	19.2	46.0
1.258000	21.3	5000.0	9.000	On	N	19.6	24.7	46.0
4.502000	25.2	5000.0	9.000	On	N	19.5	20.8	46.0

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology	
 	
<hr/> Certificate of Accreditation to ISO/IEC 17025:2017 <hr/>	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
2021-09-29 through 2022-09-30 <i>Effective Dates</i>	  <i>For the National Voluntary Laboratory Accreditation Program</i>

*** END OF REPORT BODY ***