

**PEAK Results:**
**802.11a**

## Channel 36

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)
17352.650	52.59	-25.95	44.35	34.18	68.20	15.61	V
17324.050	51.90	-25.95	44.35	33.49	68.20	16.30	V
14555.350	50.47	-27.29	41.90	35.86	68.20	17.73	H
13691.850	50.23	-29.50	40.43	39.30	68.20	17.97	H
5149.600	68.52	-27.61	33.67	62.46	74.00	5.48	H
5149.780	67.98	-27.61	33.67	61.92	74.00	6.02	H

## Channel 40

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)
17556.700	52.49	-26.85	45.25	34.09	68.20	15.71	V
17549.000	52.34	-26.85	45.25	33.94	68.20	15.86	H
14561.950	50.14	-27.29	41.90	35.53	68.20	18.06	V
13747.950	50.11	-29.10	40.86	38.34	68.20	18.09	V
11371.400	47.65	-32.42	38.79	41.28	74.00	26.35	V
11714.600	47.55	-31.99	38.98	40.56	74.00	26.45	V

## Channel 48

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)
17434.600	52.40	-26.85	45.25	34.00	68.20	15.80	H
17647.450	52.37	-25.74	45.95	32.16	68.20	15.83	H
13729.250	50.12	-29.10	40.86	38.35	68.20	18.08	V
13787.000	50.07	-29.10	40.86	38.30	68.20	18.13	H
11920.300	47.59	-31.48	39.09	39.98	74.00	26.41	V
11717.350	47.57	-31.99	38.98	40.58	74.00	26.43	V

## Channel 52

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)
17766.800	53.91	-25.50	46.66	32.75	74.00	20.09	H
17009.450	53.61	-26.32	42.36	37.56	68.20	14.59	H
14297.400	51.41	-28.42	42.34	37.49	68.20	16.79	H
13589.550	50.88	-29.50	40.43	39.95	68.20	17.32	V
11785.550	48.82	-31.99	38.98	41.83	74.00	25.18	V
11937.900	48.51	-31.48	39.09	40.90	74.00	25.49	H

## Channel 56

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)
17557.250	53.01	-26.85	45.25	34.61	68.20	15.19	V
17989.550	52.85	-25.50	46.66	31.69	74.00	21.15	V
13697.350	51.80	-29.10	40.86	40.03	68.20	16.40	V
13711.100	51.51	-29.10	40.86	39.74	68.20	16.69	V
11897.200	48.39	-31.85	39.05	41.19	74.00	25.61	H
11789.400	48.26	-31.99	38.98	41.27	74.00	25.74	H

## Channel 64

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)
17636.450	53.20	-25.74	45.95	32.99	68.20	15.00	V
16712.450	52.50	-26.62	41.49	37.63	68.20	15.70	V
13613.750	50.99	-29.50	40.43	40.06	68.20	17.21	H
14413.450	50.48	-28.59	42.46	36.61	68.20	17.72	H
5350.576	67.95	-27.43	34.01	61.37	74.00	6.05	H
5351.472	67.05	-27.43	34.01	60.47	74.00	6.95	H

## Channel 100

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)
17551.200	53.17	-26.85	45.25	34.77	68.20	15.03	V
17296.550	52.74	-25.95	44.35	34.33	68.20	15.46	H
13780.950	50.66	-29.10	40.86	38.89	68.20	17.54	H
13775.450	50.18	-29.10	40.86	38.41	68.20	18.02	V
5458.270	62.20	-27.18	34.17	55.21	74.00	11.80	H
5468.890	65.15	-27.18	34.17	58.16	68.20	3.05	H

## Channel 120

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)
17890.000	52.45	-25.50	46.66	31.29	74.00	21.55	H
17062.250	52.41	-26.60	43.36	35.65	68.20	15.79	V
14555.900	50.76	-27.29	41.90	36.15	68.20	17.44	H
13772.150	50.28	-29.10	40.86	38.51	68.20	17.92	V
11831.200	47.83	-31.85	39.05	40.63	74.00	26.17	H
11378.550	47.72	-32.42	38.79	41.35	74.00	26.28	V

## Channel 140

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)
17652.950	52.76	-25.74	45.95	32.55	68.20	15.44	V
17617.750	52.20	-25.74	45.95	31.99	68.20	16.00	V
13811.200	50.73	-29.10	40.86	38.96	68.20	17.47	H
13728.700	50.66	-29.10	40.86	38.89	68.20	17.54	H
5725.127	65.05	-27.07	34.31	57.81	68.20	3.15	H
5726.913	64.98	-27.07	34.31	57.74	68.20	3.22	H

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## Channel 36

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)
17342.200	52.18	-25.95	44.35	33.77	68.20	16.02	V
17350.450	51.95	-25.95	44.35	33.54	68.20	16.25	V
13758.950	50.72	-29.10	40.86	38.95	68.20	17.48	H
13732.000	50.60	-29.10	40.86	38.83	68.20	17.60	V
5148.680	66.86	-27.61	33.67	60.80	74.00	7.14	H
5149.920	65.60	-27.61	33.67	59.54	74.00	8.40	H

## Channel 40

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)
17998.350	52.83	-25.50	46.66	31.67	74.00	21.17	V
17265.200	52.41	-25.95	44.35	34.00	68.20	15.79	V
13659.400	50.52	-29.50	40.43	39.59	68.20	17.68	V
13721.000	50.26	-29.10	40.86	38.49	68.20	17.94	H
10735.600	47.78	-32.77	38.49	42.06	74.00	26.22	H
11859.800	47.71	-31.85	39.05	40.51	74.00	26.29	V

## Channel 48

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)
17383.450	52.38	-25.95	44.35	33.97	68.20	15.82	V
17342.750	52.03	-25.95	44.35	33.62	68.20	16.17	V
13733.100	51.33	-29.10	40.86	39.56	68.20	16.87	H
14574.050	50.30	-27.29	41.90	35.69	68.20	17.90	H
11712.950	48.58	-31.99	38.98	41.59	74.00	25.42	V
10746.050	48.17	-32.77	38.49	42.45	74.00	25.83	V

## Channel 52

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)
17129.350	52.40	-26.60	43.36	35.64	68.20	15.80	V
17990.650	52.34	-25.50	46.66	31.18	74.00	21.66	V
14572.400	50.86	-27.29	41.90	36.25	68.20	17.34	V
14075.750	50.20	-29.44	41.66	37.98	68.20	18.00	V
11793.800	48.51	-31.99	38.98	41.52	74.00	25.49	V
8983.300	47.89	-33.28	38.19	42.98	68.20	20.31	V

## Channel 56

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)
17429.100	52.80	-26.85	45.25	34.40	68.20	15.40	V
17979.650	52.47	-25.50	46.66	31.31	74.00	21.53	V
13683.050	51.20	-29.50	40.43	40.27	68.20	17.00	H
13813.950	50.99	-29.10	40.86	39.22	68.20	17.21	V
10152.600	48.16	-33.45	38.13	43.48	68.20	20.04	H
11847.150	47.99	-31.85	39.05	40.79	74.00	26.01	H

## Channel 64

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)
17941.150	52.68	-25.50	46.66	31.52	74.00	21.32	H
17435.700	52.44	-26.85	45.25	34.04	68.20	15.76	H
13688.000	50.78	-29.50	40.43	39.85	68.20	17.42	H
14101.600	50.53	-29.44	41.66	38.31	68.20	17.67	H
5352.208	64.74	-27.43	34.01	58.16	74.00	9.26	H
5351.216	64.60	-27.43	34.01	58.02	74.00	9.40	H

## Channel 100

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)
17425.250	52.63	-26.85	45.25	34.23	68.20	15.57	V
17448.350	52.60	-26.85	45.25	34.20	68.20	15.60	V
13713.300	51.18	-29.10	40.86	39.41	68.20	17.02	H
13672.600	50.51	-29.50	40.43	39.58	68.20	17.69	H
5459.755	57.97	-27.18	34.17	50.98	74.00	16.03	H
5467.240	64.77	-27.18	34.17	57.78	68.20	3.43	H

## Channel 120

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)
17431.300	52.75	-26.85	45.25	34.35	68.20	15.45	H
17927.950	52.41	-25.50	46.66	31.25	74.00	21.59	V
14088.950	50.70	-29.44	41.66	38.48	68.20	17.50	V
13936.600	50.68	-29.51	41.30	38.89	68.20	17.52	V
11823.500	48.17	-31.85	39.05	40.97	74.00	25.83	H
11771.250	47.75	-31.99	38.98	40.76	74.00	26.25	H

## Channel 140

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)
17347.150	52.57	-25.95	44.35	34.16	68.20	15.63	V
17050.150	52.53	-26.60	43.36	35.77	68.20	15.67	V
13695.150	51.04	-29.10	40.86	39.27	68.20	17.16	V
13784.250	50.70	-29.10	40.86	38.93	68.20	17.50	V
5727.000	64.07	-27.07	34.31	56.83	68.20	4.13	H
5725.267	64.02	-27.07	34.31	56.78	68.20	4.18	H

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## Channel 38

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)
17445.050	52.85	-26.85	45.25	34.45	68.20	15.35	V
17325.700	52.45	-25.95	44.35	34.04	68.20	15.75	V
14201.150	50.61	-28.99	42.00	37.59	68.20	17.59	H
13758.400	50.14	-29.10	40.86	38.37	68.20	18.06	H
5148.780	71.01	-27.61	33.67	64.95	74.00	2.99	H
5149.080	70.46	-27.61	33.67	64.40	74.00	3.54	H

## Channel 46

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)
17987.350	52.59	-25.50	46.66	31.43	74.00	21.41	H
17929.600	52.38	-25.50	46.66	31.22	74.00	21.62	H
13742.450	51.05	-29.10	40.86	39.28	68.20	17.15	V
13828.250	50.81	-29.10	40.86	39.04	68.20	17.39	V
11807.000	47.94	-31.85	39.05	40.74	74.00	26.06	V
11561.150	47.79	-32.26	38.84	41.22	74.00	26.21	V

## Channel 54

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)
17446.700	52.52	-26.85	45.25	34.12	68.20	15.68	H
17974.150	52.29	-25.50	46.66	31.13	74.00	21.71	V
13691.300	50.76	-29.50	40.43	39.83	68.20	17.44	V
13942.650	50.45	-29.51	41.30	38.66	68.20	17.75	H
11735.500	47.96	-31.99	38.98	40.97	74.00	26.04	H
11936.250	47.72	-31.48	39.09	40.11	74.00	26.28	H

## Channel 62

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)
17454.400	52.60	-26.85	45.25	34.20	68.20	15.60	V
17216.250	52.25	-25.95	44.35	33.84	68.20	15.95	V
13771.600	51.21	-29.10	40.86	39.44	68.20	16.99	H
13730.900	50.51	-29.10	40.86	38.74	68.20	17.69	V
5350.192	70.12	-27.43	34.01	63.54	74.00	3.88	H
5350.256	69.46	-27.43	34.01	62.88	74.00	4.54	H

## Channel 102

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)
17909.800	53.15	-25.50	46.66	31.99	74.00	20.85	V
17945.000	52.48	-25.50	46.66	31.32	74.00	21.52	V
13743.000	50.78	-29.10	40.86	39.01	68.20	17.42	V
13789.750	50.53	-29.10	40.86	38.76	68.20	17.67	V
5459.110	55.66	-27.18	34.17	48.67	74.00	18.34	H
5469.505	65.17	-27.18	34.17	58.18	68.20	3.03	H

## Channel 118

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)
17446.700	53.58	-26.85	45.25	35.18	68.20	14.62	V
16958.850	52.78	-26.32	42.36	36.73	68.20	15.42	V
14637.300	50.33	-27.29	41.90	35.72	68.20	17.87	H
13667.100	50.27	-29.50	40.43	39.34	68.20	17.93	V
11142.600	47.85	-32.60	38.75	41.71	74.00	26.15	H
11858.700	47.82	-31.85	39.05	40.62	74.00	26.18	H



## Channel 134

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)
17240.450	53.29	-25.95	44.35	34.88	68.20	14.91	V
17457.700	53.21	-26.85	45.25	34.81	68.20	14.99	H
14108.200	50.07	-29.44	41.66	37.85	68.20	18.13	V
14069.150	49.84	-29.44	41.66	37.62	68.20	18.36	H
5729.975	56.40	-27.07	34.31	49.16	68.20	11.80	H
5725.337	56.35	-27.07	34.31	49.11	68.20	11.85	H

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## Channel 36

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)
17446.700	53.13	-26.85	45.25	34.73	68.20	15.07	V
17241.000	52.34	-25.95	44.35	33.93	68.20	15.86	H
14591.650	50.29	-27.29	41.90	35.68	68.20	17.91	V
13784.250	50.15	-29.10	40.86	38.38	68.20	18.05	H
5147.260	65.63	-27.61	33.67	59.57	74.00	8.37	H
5149.260	65.58	-27.61	33.67	59.52	74.00	8.42	H

## Channel 40

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)
17953.800	52.37	-25.50	46.66	31.21	74.00	21.63	H
17555.600	52.10	-26.85	45.25	33.70	68.20	16.10	V
13722.650	50.36	-29.10	40.86	38.59	68.20	17.84	V
13595.050	50.19	-29.50	40.43	39.26	68.20	18.01	V
11760.800	47.93	-31.99	38.98	40.94	74.00	26.07	V
11913.150	47.84	-31.48	39.09	40.23	74.00	26.16	V

## Channel 48

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)
17550.100	52.98	-26.85	45.25	34.58	68.20	15.22	H
17953.800	52.38	-25.50	46.66	31.22	74.00	21.62	V
13741.900	50.61	-29.10	40.86	38.84	68.20	17.59	V
13757.850	50.52	-29.10	40.86	38.75	68.20	17.68	H
11907.100	47.72	-31.85	39.05	40.52	74.00	26.28	H
10860.450	47.57	-32.33	38.59	41.31	74.00	26.43	V

## Channel 52

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)
17464.300	52.78	-26.85	45.25	34.38	68.20	15.42	V
17248.700	52.44	-25.95	44.35	34.03	68.20	15.76	V
13724.850	50.18	-29.10	40.86	38.41	68.20	18.02	H
13698.450	50.16	-29.10	40.86	38.39	68.20	18.04	H
11799.850	48.25	-31.85	39.05	41.05	74.00	25.75	V
10716.350	47.87	-32.77	38.49	42.15	74.00	26.13	H

## Channel 56

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)
17421.400	53.61	-26.85	45.25	35.21	68.20	14.59	V
17257.500	52.78	-25.95	44.35	34.37	68.20	15.42	V
14572.950	50.33	-27.29	41.90	35.72	68.20	17.87	H
14596.600	50.29	-27.29	41.90	35.68	68.20	17.91	V
11910.400	49.24	-31.85	39.05	42.04	74.00	24.76	V
11776.200	48.35	-31.99	38.98	41.36	74.00	25.65	V

## Channel 64

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)
17975.800	52.72	-25.50	46.66	31.56	74.00	21.28	H
17995.600	52.41	-25.50	46.66	31.25	74.00	21.59	V
13780.400	50.41	-29.10	40.86	38.64	68.20	17.79	V
13678.650	50.23	-29.50	40.43	39.30	68.20	17.97	H
5351.184	63.48	-27.43	34.01	56.90	74.00	10.52	H
5353.808	63.11	-27.43	34.01	56.53	74.00	10.89	H

## Channel 100

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)
17143.650	52.73	-26.60	43.36	35.97	68.20	15.47	V
17317.450	52.60	-25.95	44.35	34.19	68.20	15.60	H
14117.000	50.48	-28.99	42.00	37.46	68.20	17.72	V
14110.400	50.40	-28.99	42.00	37.38	68.20	17.80	V
5457.625	57.15	-27.18	34.17	50.16	74.00	16.85	H
5468.815	64.54	-27.18	34.17	57.55	68.20	3.66	H

## Channel 120

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)
17607.850	52.64	-25.74	45.95	32.43	68.20	15.56	H
17643.600	52.39	-25.74	45.95	32.18	68.20	15.81	V
13605.500	50.68	-29.50	40.43	39.75	68.20	17.52	H
13670.400	50.21	-29.50	40.43	39.28	68.20	17.99	H
11829.550	47.92	-31.85	39.05	40.72	74.00	26.08	H
11917.550	47.52	-31.48	39.09	39.91	74.00	26.48	V

## Channel 140

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)
17489.050	52.38	-26.85	45.25	33.98	68.20	15.82	V
17451.650	52.26	-26.85	45.25	33.86	68.20	15.94	H
13926.150	50.55	-29.51	41.30	38.76	68.20	17.65	V
13687.450	50.45	-29.50	40.43	39.52	68.20	17.75	V
5726.422	63.67	-27.07	34.31	56.43	68.20	4.53	H
5725.408	63.53	-27.07	34.31	56.29	68.20	4.67	H

**802.11ac-HT40**

## Channel 38

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)
17620.500	52.63	-25.74	45.95	32.42	68.20	15.57	H
17975.800	52.47	-25.50	46.66	31.31	74.00	21.53	V
13712.750	50.47	-29.10	40.86	38.70	68.20	17.73	V
13725.950	50.12	-29.10	40.86	38.35	68.20	18.08	H
5149.960	70.92	-27.61	33.67	64.86	74.00	3.08	H
5148.400	70.09	-27.61	33.67	64.03	74.00	3.91	H

## Channel 46

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)
17378.500	53.19	-25.95	44.35	34.78	68.20	15.01	H
17285.550	52.58	-25.95	44.35	34.17	68.20	15.62	V
13749.600	51.25	-29.10	40.86	39.48	68.20	16.95	H
13711.100	50.11	-29.10	40.86	38.34	68.20	18.09	V
11796.000	47.68	-31.85	39.05	40.48	74.00	26.32	V
11954.400	47.60	-31.48	39.09	39.99	74.00	26.40	H

## Channel 54

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)
17976.900	52.75	-25.50	46.66	31.59	74.00	21.25	V
17277.850	52.36	-25.95	44.35	33.95	68.20	15.84	V
14596.050	50.90	-27.29	41.90	36.29	68.20	17.30	H
13707.800	50.66	-29.10	40.86	38.89	68.20	17.54	H
11373.050	48.67	-32.42	38.79	42.30	74.00	25.33	V
11912.050	48.36	-31.85	39.05	41.16	74.00	25.64	V

## Channel 62

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)
16989.100	52.15	-26.32	42.36	36.10	68.20	16.05	V
17953.800	52.15	-25.50	46.66	30.99	74.00	21.85	H
14582.850	50.34	-27.29	41.90	35.73	68.20	17.86	H
13935.500	50.02	-29.51	41.30	38.23	68.20	18.18	H
5353.200	69.80	-27.43	34.01	63.22	74.00	4.20	H
5353.184	69.52	-27.43	34.01	62.94	74.00	4.48	H

## Channel 102

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)
17465.400	53.35	-26.85	45.25	34.95	68.20	14.85	H
17984.600	53.24	-25.50	46.66	32.08	74.00	20.76	H
14113.700	50.03	-28.99	42.00	37.01	68.20	18.17	H
14591.650	49.91	-27.29	41.90	35.30	68.20	18.29	H
5459.365	58.41	-27.18	34.17	51.42	74.00	15.59	H
5469.100	65.17	-27.18	34.17	58.18	68.20	3.03	H

## Channel 118

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)
16880.200	52.41	-26.32	42.36	36.36	68.20	15.79	V
17942.800	52.30	-25.50	46.66	31.14	74.00	21.70	V
13766.650	50.39	-29.10	40.86	38.62	68.20	17.81	V
14102.700	49.95	-29.44	41.66	37.73	68.20	18.25	H
11866.400	47.73	-31.85	39.05	40.53	74.00	26.27	H
11849.900	47.45	-31.85	39.05	40.25	74.00	26.55	H

## Channel 134

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)
17261.350	52.54	-25.95	44.35	34.13	68.20	15.66	H
17578.150	52.38	-25.74	45.95	32.17	68.20	15.82	H
13694.600	50.64	-29.10	40.86	38.87	68.20	17.56	V
13726.500	49.90	-29.10	40.86	38.13	68.20	18.30	V
5726.510	56.23	-27.07	34.31	48.99	68.20	11.97	H
5725.198	56.20	-27.07	34.31	48.96	68.20	12.00	H

**802.11ac-HT80**

## Channel 42

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)
17557.250	52.39	-26.85	45.25	33.99	68.20	15.81	V
17058.950	52.38	-26.60	43.36	35.62	68.20	15.82	V
13723.200	50.10	-29.10	40.86	38.33	68.20	18.10	H
13723.750	49.83	-29.10	40.86	38.06	68.20	18.37	V
5149.500	68.79	-27.61	33.67	62.73	74.00	5.21	H
5147.080	66.91	-27.61	33.67	60.85	74.00	7.09	H

## Channel 58

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)
17141.450	52.69	-26.60	43.36	35.93	68.20	15.51	V
17359.800	52.28	-25.95	44.35	33.87	68.20	15.92	H
13712.200	52.07	-29.10	40.86	40.30	68.20	16.13	V
13642.900	50.49	-29.50	40.43	39.56	68.20	17.71	H
5350.128	67.13	-27.43	34.01	60.55	74.00	6.87	H
5351.872	65.71	-27.43	34.01	59.13	74.00	8.29	H

## Channel 106

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)
17417.000	52.70	-26.85	45.25	34.30	68.20	15.50	H
17944.450	52.52	-25.50	46.66	31.36	74.00	21.48	H
13641.800	50.74	-29.50	40.43	39.81	68.20	17.46	V
13816.700	50.57	-29.10	40.86	38.80	68.20	17.63	H
5459.455	61.09	-27.18	34.17	54.10	74.00	12.91	H
5469.880	65.24	-27.18	34.17	58.25	68.2	2.96	H

## Channel 122

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)
17369.150	52.51	-25.95	44.35	34.10	68.20	15.69	V
17256.950	52.47	-25.95	44.35	34.06	68.20	15.73	H
14109.300	50.54	-28.99	42.00	37.52	68.20	17.66	V
14108.750	50.42	-28.99	42.00	37.40	68.20	17.78	H
5737.797	57.22	-27.07	34.31	49.98	68.20	10.98	H
5752.130	56.33	-27.07	34.31	49.09	68.20	11.87	H

**Note:**

1. The spurious emission above 18G is noise only.
2. All emissions below 30MHz are more than 20 dB below the limit

## A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

### Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

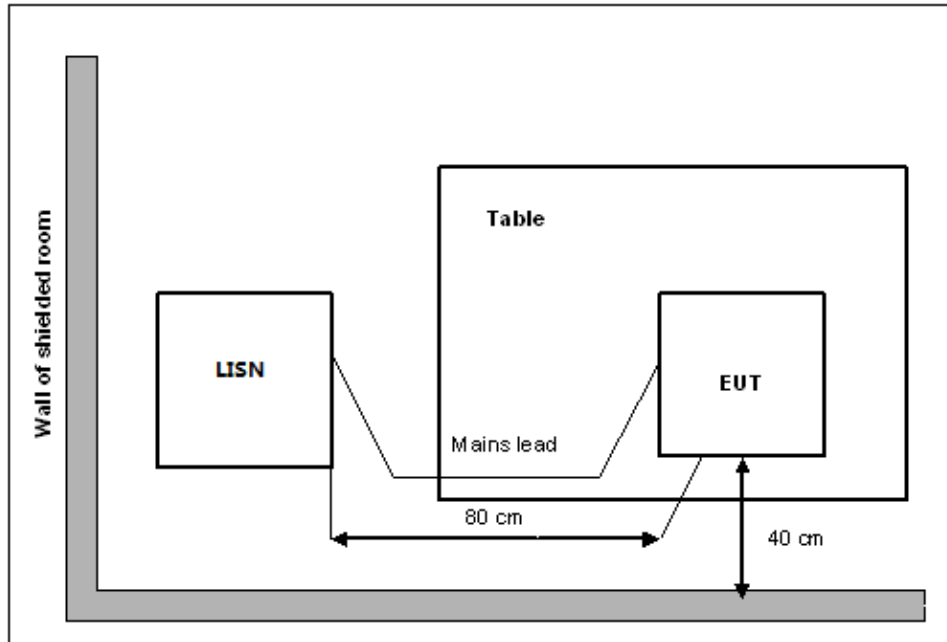
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement Setup





**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.54	Fig.55	<b>P</b>
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)

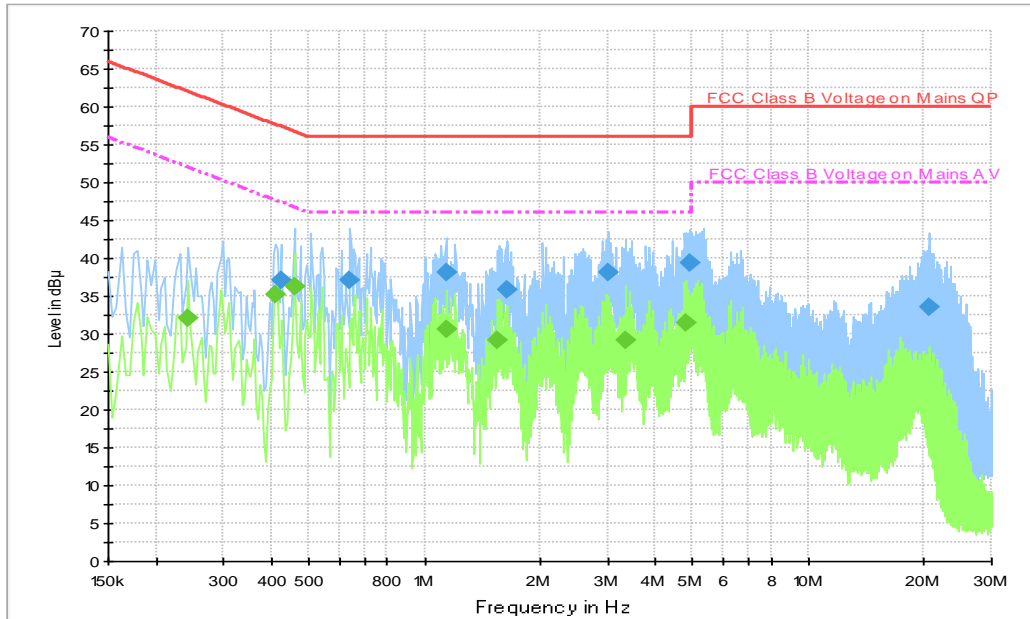
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.54	Fig.55	<b>P</b>
0.5 to 5	46			
5 to 30	50			

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:

Traffic:



**Fig.54 AC Powerline Conducted Emission-Traffic**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

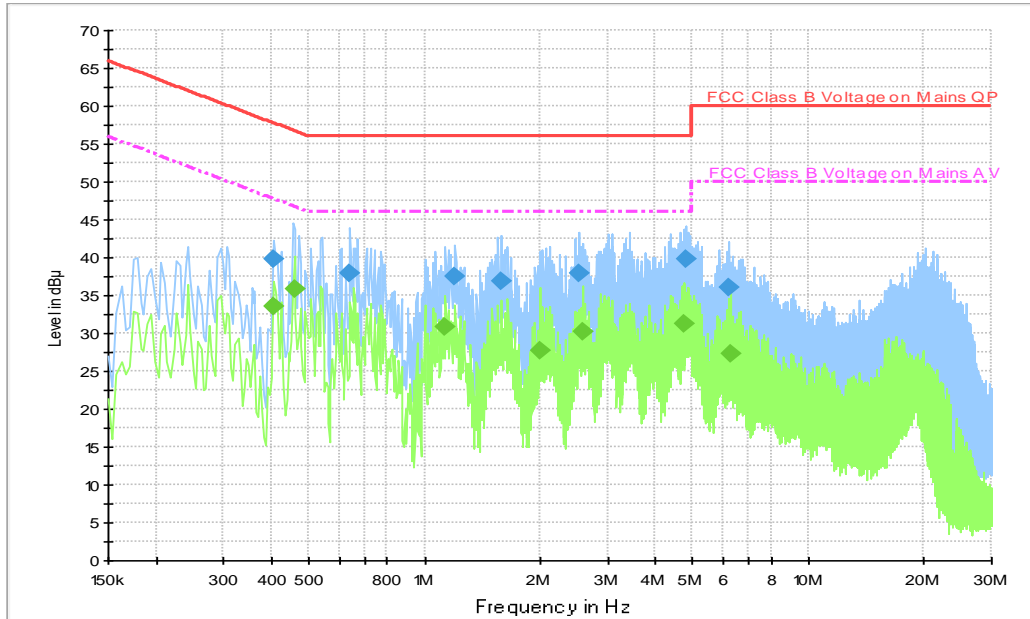
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.422000	37.1	5000.	9.000	On	L1	19.7	20.4
0.638000	37.0	5000.	9.000	On	L1	19.6	19.0
1.138000	38.1	5000.	9.000	On	L1	19.7	17.9
1.646000	35.9	5000.	9.000	On	L1	19.7	20.1
3.022000	38.1	5000.	9.000	On	L1	19.6	17.9
4.914000	39.4	5000.	9.000	On	L1	19.6	16.6

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.242000	32.0	5000.0	9.000	On	L1	19.8	20.0
0.410000	35.2	5000.0	9.000	On	L1	19.7	12.5
0.458000	36.2	5000.0	9.000	On	L1	19.8	10.6
1.138000	30.6	5000.0	9.000	On	L1	19.7	15.4
1.550000	29.2	5000.0	9.000	On	L1	19.6	16.8
3.346000	29.1	5000.0	9.000	On	L1	19.6	16.9

Idle:



**Fig.55 AC Powerline Conducted Emission-Idle**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406000	39.8	5000.	9.000	On	L1	19.7	17.9
0.638000	37.9	5000.	9.000	On	L1	19.6	18.1
1.202000	37.5	5000.	9.000	On	L1	19.7	18.5
1.586000	36.9	5000.	9.000	On	L1	19.7	19.1
2.530000	38.0	5000.	9.000	On	L1	19.6	18.0
4.798000	39.7	5000.	9.000	On	L1	19.6	16.3

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406000	33.5	5000.0	9.000	On	L1	19.7	14.3
0.458000	35.9	5000.0	9.000	On	L1	19.8	10.8
1.134000	30.9	5000.0	9.000	On	L1	19.7	15.1
2.006000	27.7	5000.0	9.000	On	L1	19.6	18.3
2.590000	30.3	5000.0	9.000	On	L1	19.6	15.7
4.742000	31.2	5000.0	9.000	On	L1	19.6	14.8

Note: The measurement results showed here are worst cases of the combination of different AE.

### A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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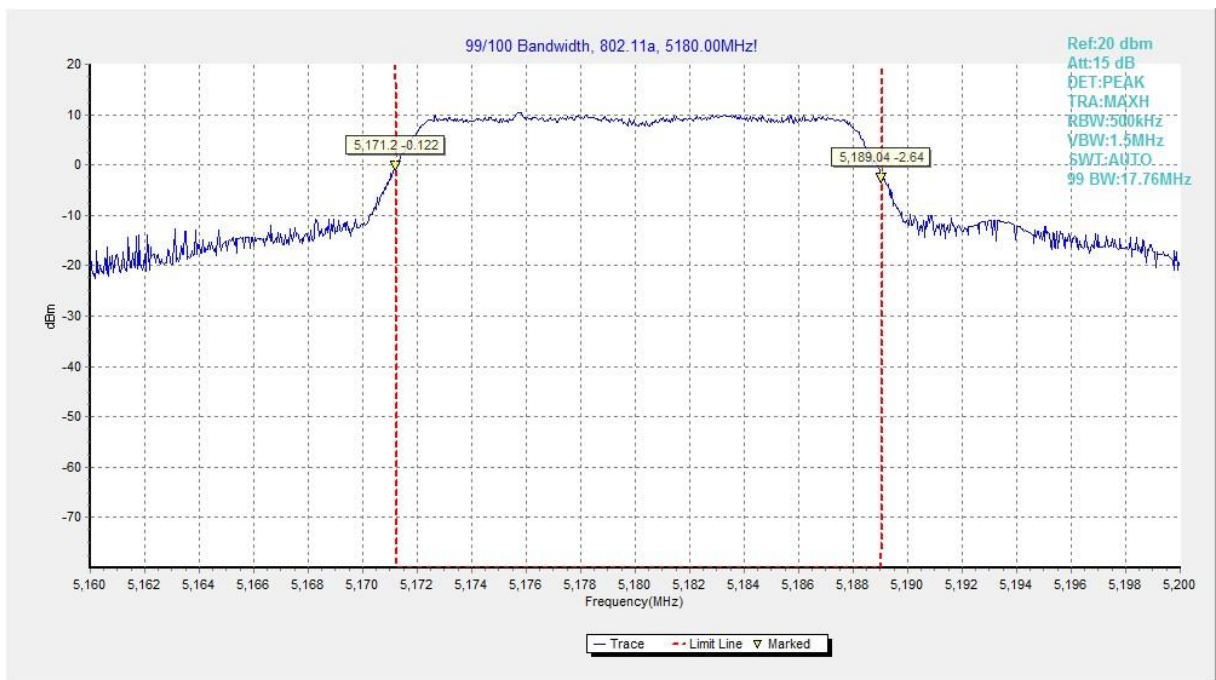
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.56	17.76	P
	5200 MHz	Fig.57	17.80	P
	5240 MHz	Fig.58	17.76	P
802.11ac HT20	5180 MHz	Fig.59	18.16	P
	5200 MHz	Fig.60	18.40	P
	5240 MHz	Fig.61	18.24	P
802.11n	5190 MHz	Fig.62	36.24	P

HT40	5230 MHz	Fig.63	36.24	P
802.11ac HT80	5210 MHz	Fig.64	75.68	P

**Conclusion: PASS**

**Test graphs as below:**



**Fig.56 99% Occupied bandwidth (802.11a, 5180MHz)**

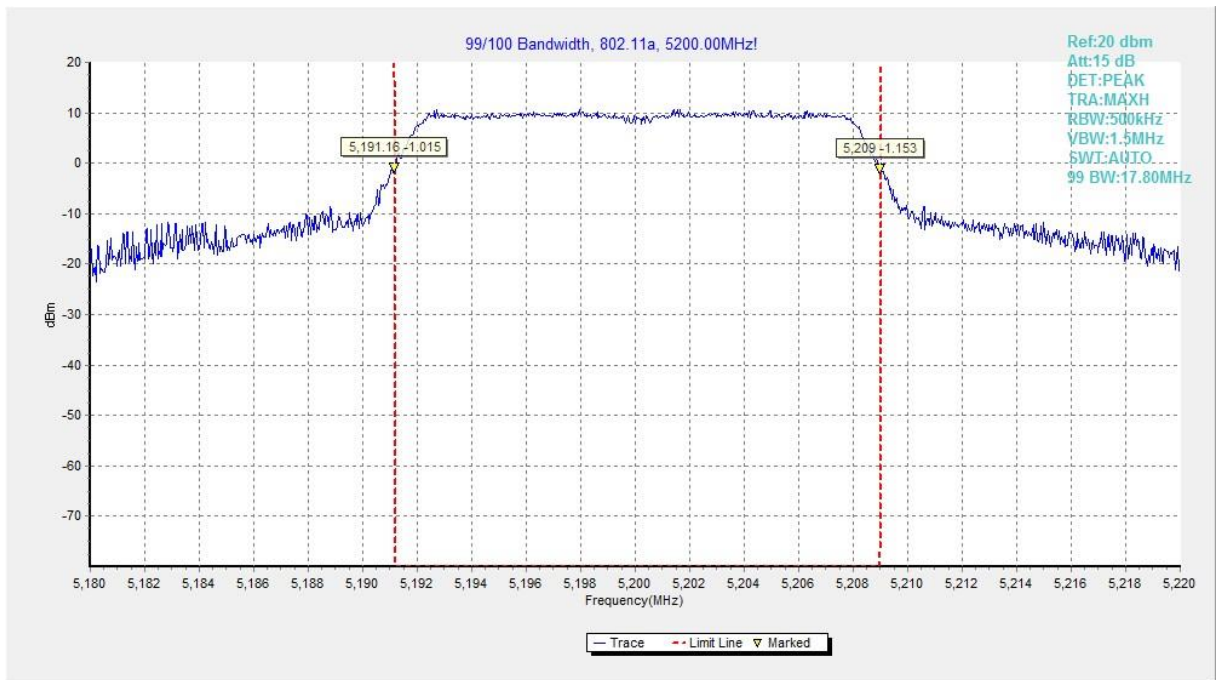


Fig.57 99% Occupied bandwidth (802.11a, 5200MHz)

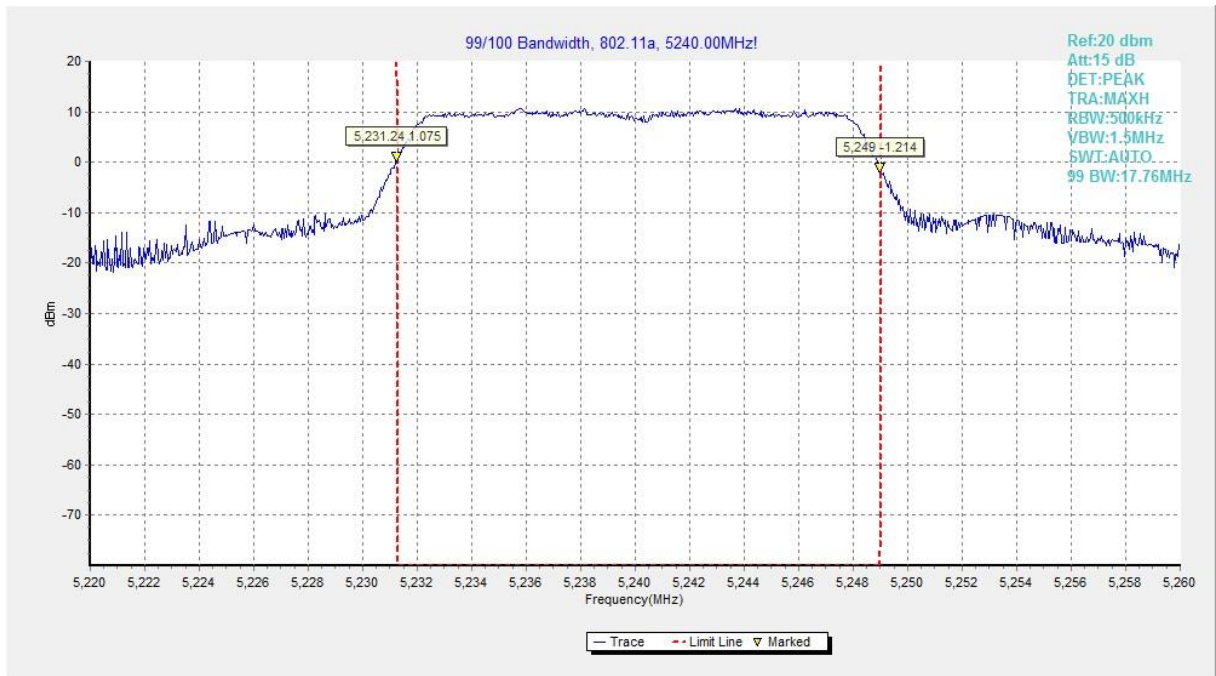
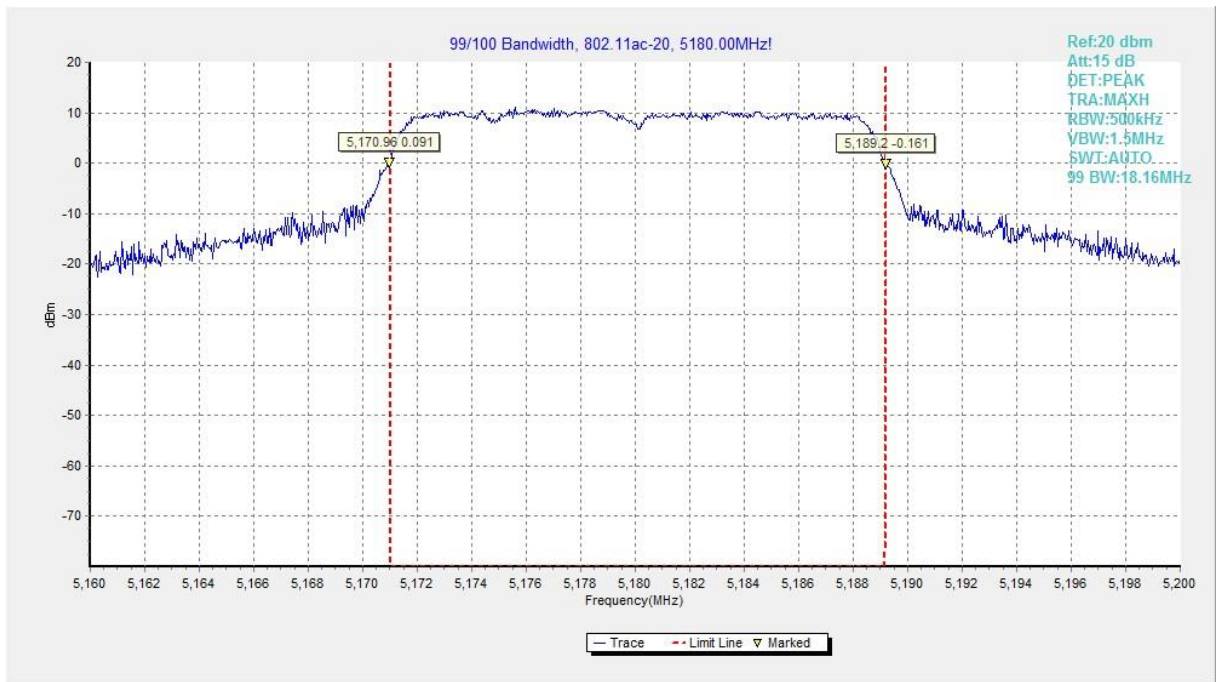
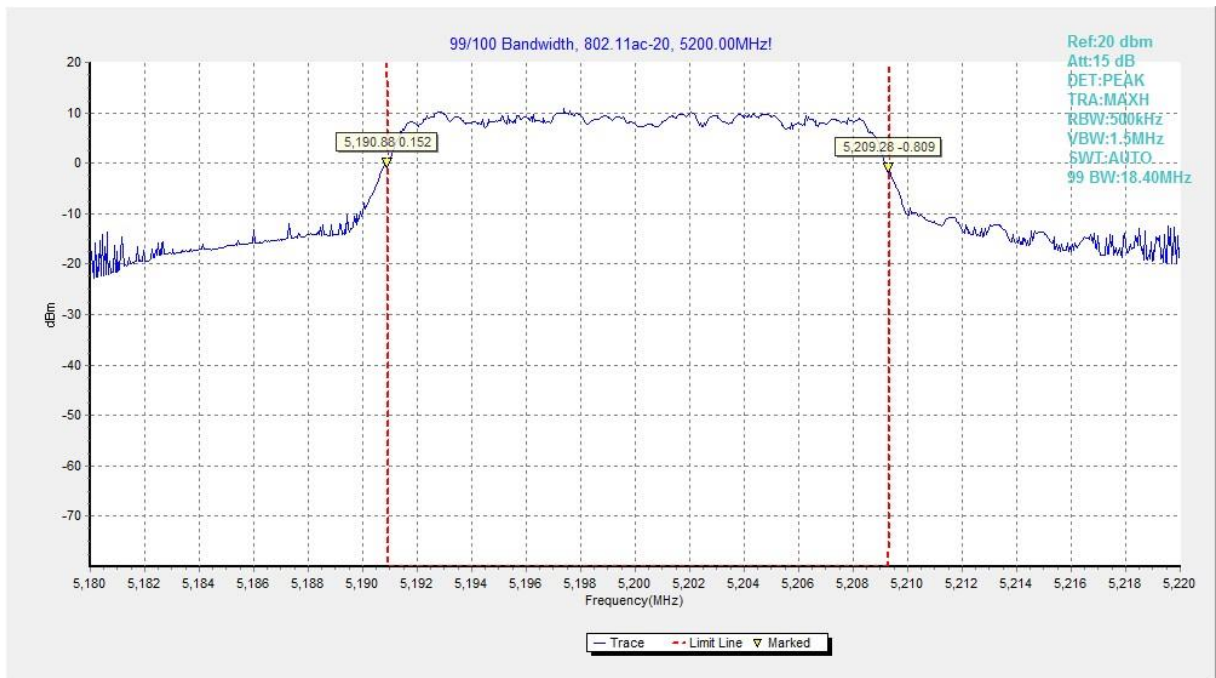


Fig.58 99% Occupied bandwidth (802.11a, 5240MHz)

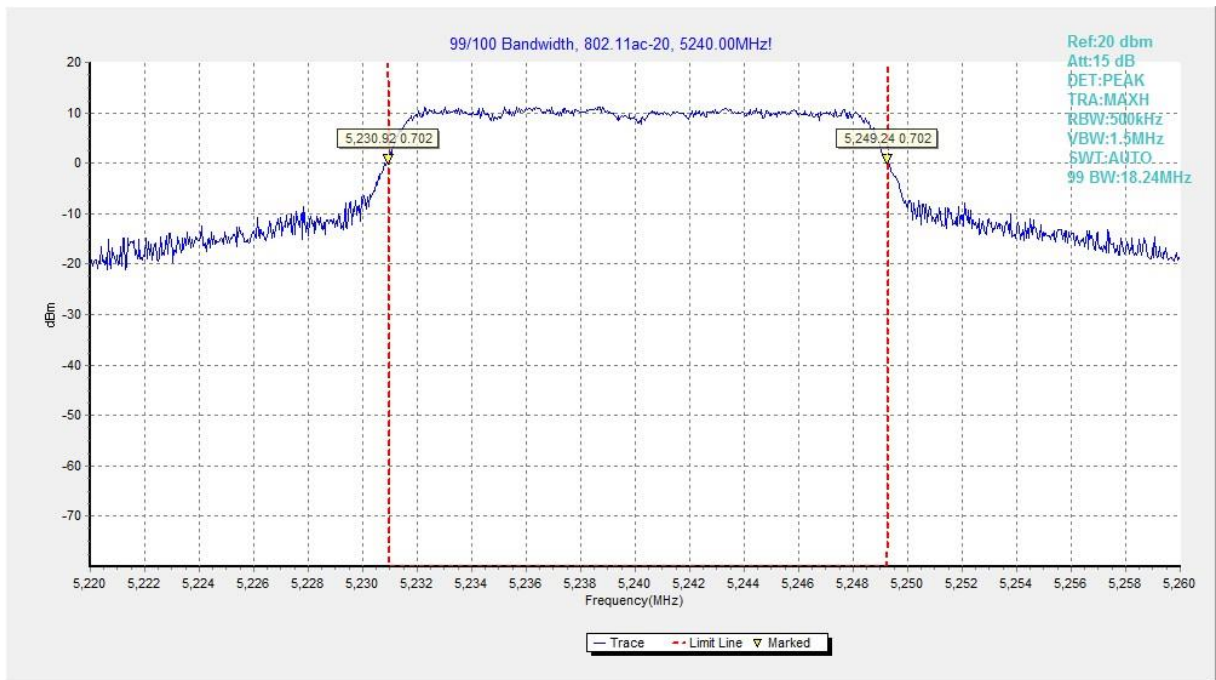




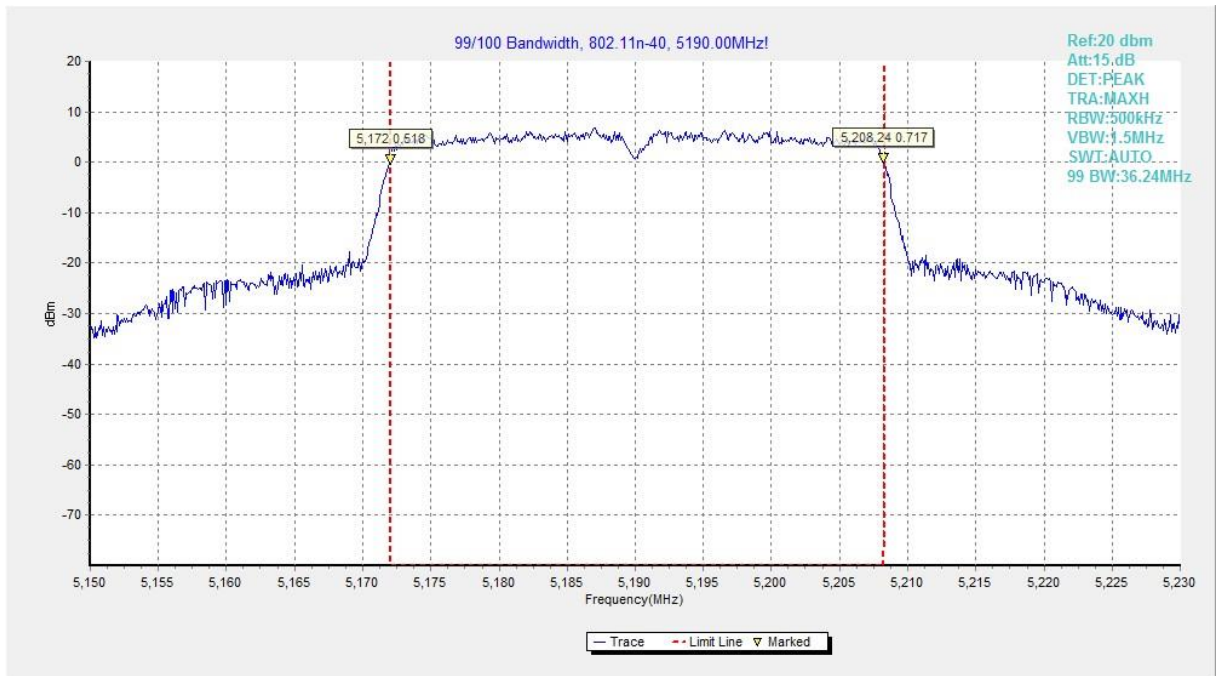
**Fig.59 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



**Fig.60 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**

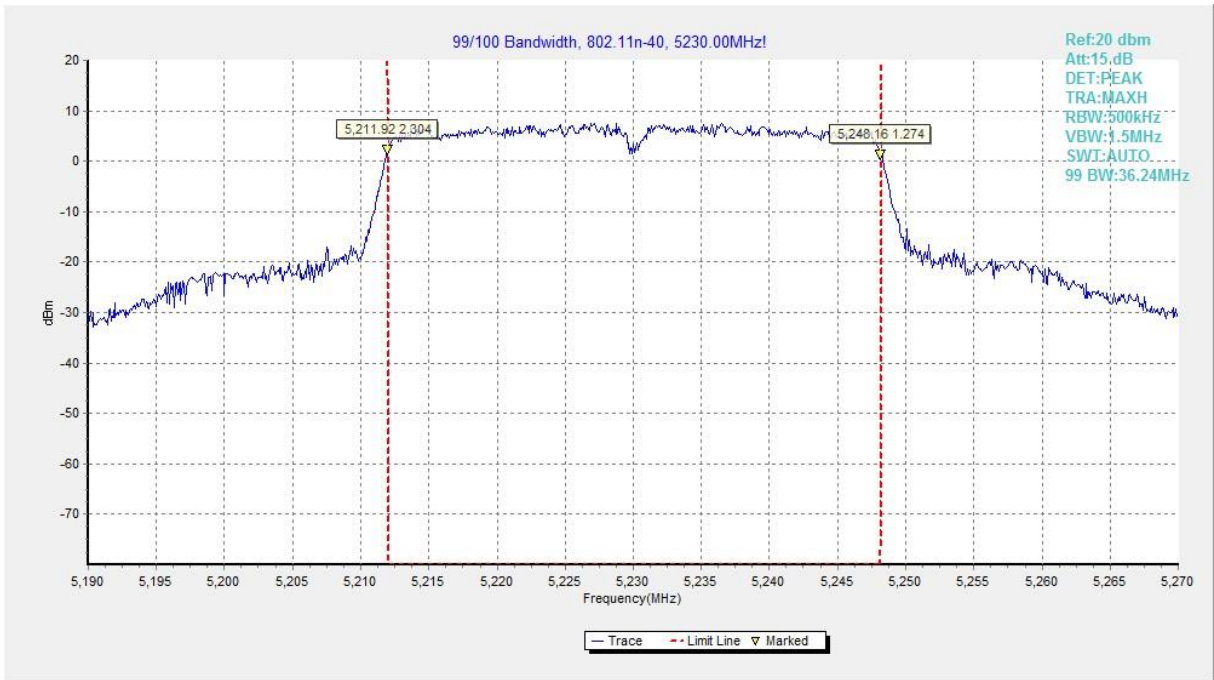


**Fig.61 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**

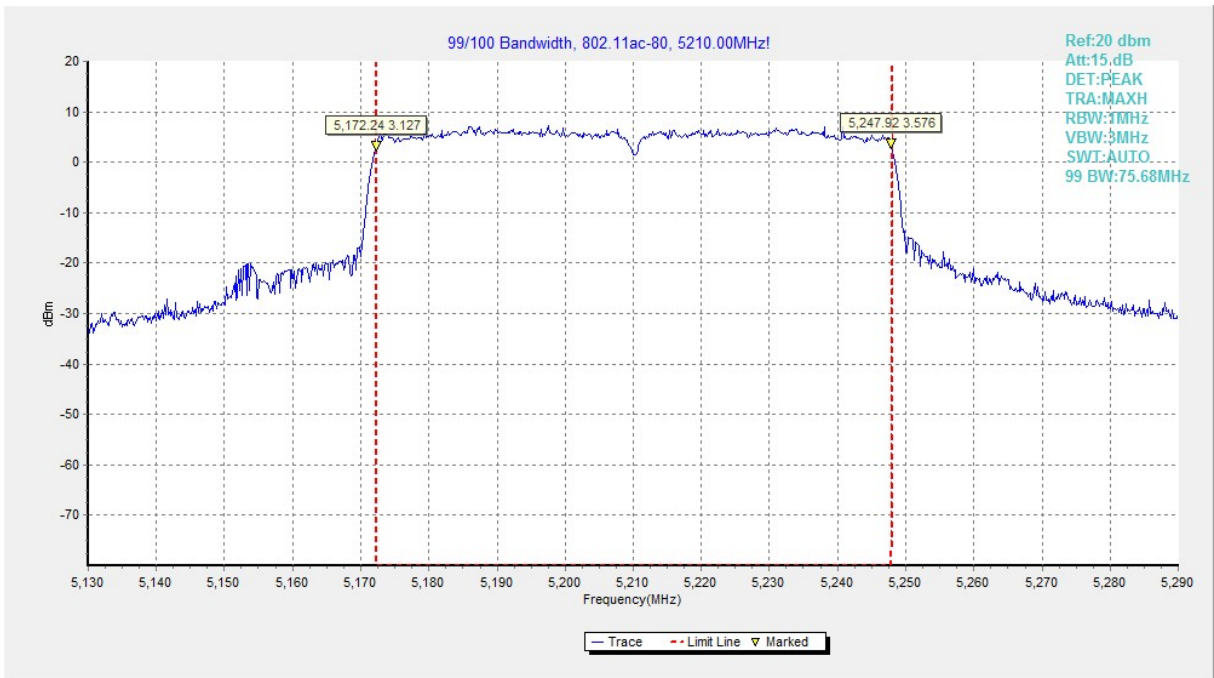


**Fig.62 99% Occupied bandwidth (802.11n-HT40, 5190MHz)**





**Fig.63 99% Occupied bandwidth (802.11n-HT40, 5230MHz)**



**Fig.64 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**



### **A.9. Power control**

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

## ANNEX B: EUT parameters

Disclaimer: The antenna gain 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

<b>United States Department of Commerce National Institute of Standards and Technology</b>	
	
<hr/> <b>Certificate of Accreditation to ISO/IEC 17025:2017</b> <hr/>	
NVLAP LAB CODE: 600118-0	
<b>Telecommunication Technology Labs, CAICT</b> Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
<b>Electromagnetic Compatibility &amp; Telecommunications</b>	
<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 Communiqué dated January 2009).</i>	
<hr/> 2021-09-29 through 2022-09-30 Effective Dates	 For the National Voluntary Laboratory Accreditation Program

\*\*\* END OF REPORT BODY \*\*\*