

802.11ac-HT20

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)
17973.05	51.27	-25.5	46.66	30.11	74	22.73	H
17968.65	50.73	-25.5	46.66	29.57	74	23.27	H
14783.05	47.71	-28.32	41.35	34.69	68.2	20.49	H
14826.5	46.69	-28.32	41.35	33.67	68.2	21.51	H
5149.9	54.03	-27.61	33.67	47.97	74	19.97	H
5146.14	53.96	-27.61	33.67	47.9	74	20.04	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)
17957.65	51.65	-25.5	46.66	30.49	74	22.35	H
17934	50.66	-25.5	46.66	29.5	74	23.34	V
14987.65	47	-27.85	40.21	34.64	68.2	21.2	H
14496.5	46.59	-28.59	42.46	32.72	74	27.41	V
11997.3	44.39	-31.48	39.09	36.78	74	29.61	V
11990.7	44.13	-31.48	39.09	36.52	74	29.87	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)
17936.75	51.01	-25.5	46.66	29.85	74	22.99	H
17858.65	50.76	-25.5	46.66	29.6	74	23.24	V
14881.5	46.55	-28.59	40.79	34.35	68.2	21.65	H
14646.1	46.47	-27.29	41.9	31.86	68.2	21.73	H
11965.95	44.84	-31.48	39.09	37.23	74	29.16	V
11926.9	44.3	-31.48	39.09	36.69	74	29.7	H

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)
17848.2	51.11	-25.5	46.66	29.95	74	22.89	V
17936.75	50.82	-25.5	46.66	29.66	74	23.18	V
12513.2	47.5	-31.22	38.91	39.81	74	26.5	H
14849.6	46.93	-28.59	40.79	34.73	68.2	21.27	H
11764.1	44.4	-31.99	38.98	37.41	74	29.6	V
11907.1	44.17	-31.85	39.05	36.97	74	29.83	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)
17954.9	50.85	-25.5	46.66	29.69	74	23.15	H
17849.85	50.28	-25.5	46.66	29.12	74	23.72	H
14981.6	47.25	-27.85	40.21	34.89	68.2	20.95	H
14990.4	47.09	-27.85	40.21	34.73	68.2	21.11	V
11960.45	44.47	-31.48	39.09	36.86	74	29.53	H
11885.1	44.28	-31.85	39.05	37.08	74	29.72	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)
17920.8	51.16	-25.5	46.66	30	74	22.84	H
17824	50.89	-25.5	46.66	29.73	74	23.11	H
14875.45	47.27	-28.59	40.79	35.07	68.2	20.93	H
12336.1	47.06	-31.1	38.94	39.22	74	26.94	H
5418.176	54.14	-27.36	34.09	47.42	74	19.86	H
5456.128	53.28	-27.18	34.17	46.29	74	20.72	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)
17953.8	52.5	-25.5	46.66	31.34	74	21.5	H
17892.2	52.2	-25.5	46.66	31.04	74	21.8	H
12364.15	48.86	-31.1	38.94	41.02	74	25.14	H
14725.3	48.64	-28.32	41.35	35.62	68.2	19.56	H
5451.58	53.18	-27.18	34.17	46.19	74	20.82	V
5469.415	53.13	-27.18	34.17	46.14	68.2	15.07	V

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)
17954.9	52.42	-25.5	46.66	31.26	74	21.58	H
17942.8	52.35	-25.5	46.66	31.19	74	21.65	H
14830.9	48.86	-28.59	40.79	36.66	68.2	19.34	H
14990.95	48.83	-27.85	40.21	36.47	68.2	19.37	H
11929.1	46.6	-31.48	39.09	38.99	74	27.4	H
11978.05	46.44	-31.48	39.09	38.83	74	27.56	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)
17876.8	52.53	-25.5	46.66	31.37	74	21.47	V
16961.6	52.49	-26.32	42.36	36.44	68.2	15.71	H
14991.5	49.55	-27.85	40.21	37.19	68.2	18.65	V
14497.05	49.07	-28.59	42.46	35.2	74	24.93	H
5725.233	61.08	-27.07	34.31	53.84	68.2	7.12	V
5725.101	60.46	-27.07	34.31	53.22	68.2	7.74	V

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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)
15949.05	51.04	-27.35	38.54	39.85	74	22.96	H
17858.65	51.01	-25.5	46.66	29.85	74	22.99	H
12517.6	46.78	-31.22	38.91	39.09	74	27.22	H
12806.35	46.73	-30.69	39.14	38.28	68.2	21.47	V
5148.08	58.24	-27.61	33.67	52.18	74	15.76	H
5148.42	57.72	-27.61	33.67	51.66	74	16.28	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)
17882.85	51.27	-25.5	46.66	30.11	74	22.73	H
17889.45	50.8	-25.5	46.66	29.64	74	23.2	V
12508.25	48.23	-31.22	38.91	40.54	74	25.77	H
14739.05	46.98	-28.32	41.35	33.96	68.2	21.22	H
11950.55	44.18	-31.48	39.09	36.57	74	29.82	H
11821.3	44.16	-31.85	39.05	36.96	74	29.84	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)
17945.55	52.15	-25.5	46.66	30.99	74	21.85	V
17770.65	51.82	-25.5	46.66	30.66	74	22.18	V
12361.4	48.72	-31.1	38.94	40.88	74	25.28	H
14864.45	48.72	-28.59	40.79	36.52	68.2	19.48	H
11765.75	47.21	-31.99	38.98	40.22	74	26.79	V
11992.35	46.86	-31.48	39.09	39.25	74	27.14	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)
17088.1	52	-26.6	43.36	35.24	68.2	16.2	H
15967.2	51.97	-27.35	38.54	40.78	74	22.03	V
12539.6	49.01	-31.05	38.99	41.07	74	24.99	V
12566	48.92	-31.05	38.99	40.98	74	25.08	H
5350.224	53.55	-27.43	34.01	46.97	74	20.45	H
5350.544	53.54	-27.43	34.01	46.96	74	20.46	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)
17937.3	52.39	-25.5	46.66	31.23	74	21.61	V
17970.85	52.15	-25.5	46.66	30.99	74	21.85	H
14755	48.87	-28.32	41.35	35.85	68.2	19.33	H
12567.1	48.3	-31.05	38.99	40.36	74	25.7	H
5459.778	57.2	-27.18	34.17	50.21	74	16.8	V
5468.132	65.23	-27.18	34.17	58.24	68.2	2.97	V

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)
17980.75	52.06	-25.5	46.66	30.9	74	21.94	H
17963.15	51.88	-25.5	46.66	30.72	74	22.12	H
12925.7	48.85	-30.49	39.24	40.1	68.2	19.35	H
14862.8	48.62	-28.59	40.79	36.42	68.2	19.58	V
11966.5	47.16	-31.48	39.09	39.55	74	26.84	V
11873.55	46.78	-31.85	39.05	39.58	74	27.22	V

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)
17971.95	53.23	-25.5	46.66	32.07	74	20.77	V
16946.75	51.81	-26.32	42.36	35.76	68.2	16.39	V
14791.3	49.71	-28.32	41.35	36.69	68.2	18.49	H
14875.45	48.76	-28.59	40.79	36.56	68.2	19.44	H
5751.045	54.17	-27.07	34.31	46.93	68.2	14.03	V
5743.284	54.14	-27.07	34.31	46.9	68.2	14.06	V

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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)
17950.5	52.28	-25.5	46.66	31.12	74	21.72	V
17912.55	52.25	-25.5	46.66	31.09	74	21.75	V
12335.55	49.17	-31.1	38.94	41.33	74	24.83	H
12265.15	48.58	-31.43	38.99	41.02	74	25.42	H
5146.7	65.39	-27.61	33.67	59.33	74	8.61	H
5149.34	64.97	-27.61	33.67	58.91	74	9.03	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)
17949.4	52.57	-25.5	46.66	31.41	74	21.43	H
17908.15	52.3	-25.5	46.66	31.14	74	21.7	H
14812.75	48.72	-28.32	41.35	35.7	68.2	19.48	V
12537.4	48.6	-31.05	38.99	40.66	74	25.4	V
5355.552	64.43	-27.43	34.01	57.85	74	9.57	V
5360.336	63.4	-27.43	34.01	56.82	74	10.6	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)
17863.05	53.3	-25.5	46.66	32.14	74	20.7	H
17919.7	52.66	-25.5	46.66	31.5	74	21.34	V
14999.75	49.15	-27.85	40.21	36.79	68.2	19.05	H
14832.55	48.72	-28.59	40.79	36.52	68.2	19.48	H
5457.61	54.82	-27.18	34.17	47.83	74	19.18	V
5466.887	56.3	-27.18	34.17	49.31	68.2	11.9	V

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)
17951.6	52.4	-25.5	46.66	31.24	74	21.6	H
17881.2	52.17	-25.5	46.66	31.01	74	21.83	H
14834.75	48.78	-28.59	40.79	36.58	68.2	19.42	V
14849.05	48.77	-28.59	40.79	36.57	68.2	19.43	H
5765.736	53.58	-27.07	34.33	46.32	68.2	14.62	V
5726.948	53.51	-27.07	34.31	46.27	68.2	14.69	V

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Channel 50

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)
17973.05	52.03	-25.5	46.66	30.87	74	21.97	H
14879.3	49.05	-28.59	40.79	36.85	68.2	19.15	V
5137.04	59.95	-27.61	33.67	53.89	74	14.05	V
5147.67	59.91	-27.61	33.67	53.85	74	14.09	V
5371.52	64.8	-27.43	34.01	58.22	74	9.2	V
5358.648	63.54	-27.43	34.01	56.96	74	10.46	V

Channel 114

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)
16497.4	52.05	-26.96	39.82	39.19	68.2	16.15	H
17947.75	51.9	-25.5	46.66	30.74	74	22.1	H
12997.75	48.84	-30.49	39.24	40.09	68.2	19.36	V
14536.65	48.73	-27.29	41.9	34.12	68.2	19.47	H
5449.068	58.82	-27.18	34.17	51.83	74	15.18	V
5460.017	57.89	-27.18	34.17	50.9	68.2	10.31	V

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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)
17949.95	51.04	-25.5	46.66	29.88	74	22.96	V
17946.65	50.77	-25.5	46.66	29.61	74	23.23	V
14756.1	47.28	-28.32	41.35	34.26	68.2	20.92	H
14979.4	46.82	-27.85	40.21	34.46	68.2	21.38	H
5149.7	55.25	-27.61	33.67	49.19	74	18.75	H
5148.9	54.6	-27.61	33.67	48.54	74	19.4	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)
17772.3	50.71	-25.5	46.66	29.55	74	23.29	H
17761.3	50.65	-25.5	46.66	29.49	74	23.35	V
14798.45	47.04	-28.32	41.35	34.02	68.2	21.16	V
14990.95	46.72	-27.85	40.21	34.36	68.2	21.48	V
11987.4	44.51	-31.48	39.09	36.9	74	29.49	H
11973.65	44.36	-31.48	39.09	36.75	74	29.64	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)
17969.2	51.36	-25.5	46.66	30.2	74	22.64	H
17902.65	50.84	-25.5	46.66	29.68	74	23.16	H
14830.9	47.89	-28.59	40.79	35.69	68.2	20.31	V
14648.3	47.01	-27.29	41.9	32.4	68.2	21.19	V
11711.85	44.15	-31.99	38.98	37.16	74	29.85	H
11981.9	44	-31.48	39.09	36.39	74	30	H

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)
17863.05	52.98	-25.5	46.66	31.82	74	21.02	H
17901.55	52.26	-25.5	46.66	31.1	74	21.74	H
14850.7	49.14	-28.59	40.79	36.94	68.2	19.06	H
14800.1	48.79	-28.32	41.35	35.77	68.2	19.41	H
11761.35	47.74	-31.99	38.98	40.75	74	26.26	V
11828.45	46.76	-31.85	39.05	39.56	74	27.24	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)
17935.65	52.54	-25.5	46.66	31.38	74	21.46	V
17847.65	52.31	-25.5	46.66	31.15	74	21.69	H
14873.8	49.16	-28.59	40.79	36.96	68.2	19.04	V
14832	48.99	-28.59	40.79	36.79	68.2	19.21	H
11840	46.81	-31.85	39.05	39.61	74	27.19	V
11970.9	46.34	-31.48	39.09	38.73	74	27.66	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)
17869.65	52.79	-25.5	46.66	31.63	74	21.21	H
17864.7	52.02	-25.5	46.66	30.86	74	21.98	V
14879.85	49.07	-28.59	40.79	36.87	68.2	19.13	V
14837.5	48.87	-28.59	40.79	36.67	68.2	19.33	H
5433.904	53.24	-27.18	34.17	46.25	74	20.76	H
5375.904	53.15	-27.36	34.09	46.43	74	20.85	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)
17911.45	53.31	-25.5	46.66	32.15	74	20.69	H
17970.85	52.58	-25.5	46.66	31.42	74	21.42	H
12353.15	48.97	-31.1	38.94	41.13	74	25.03	V
14834.2	48.97	-28.59	40.79	36.77	68.2	19.23	V
5437.615	53.2	-27.18	34.17	46.21	74	20.8	V
5464.352	53.26	-27.18	34.17	46.27	68.2	14.94	V

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)
17869.65	52.94	-25.5	46.66	31.78	74	21.06	H
17934.55	52.7	-25.5	46.66	31.54	74	21.3	V
14823.2	49.2	-28.32	41.35	36.18	68.2	19	H
14995.35	49.13	-27.85	40.21	36.77	68.2	19.07	V
11775.1	46.89	-31.99	38.98	39.9	74	27.11	H
11973.1	46.84	-31.48	39.09	39.23	74	27.16	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)
17866.35	52.36	-25.5	46.66	31.2	74	21.64	V
17867.45	52.23	-25.5	46.66	31.07	74	21.77	H
14995.9	49.31	-27.85	40.21	36.95	68.2	18.89	V
14748.95	49.29	-28.32	41.35	36.27	68.2	18.91	V
5725.556	63.1	-27.07	34.31	55.86	68.2	5.1	V
5725.189	63.09	-27.07	34.31	55.85	68.2	5.11	V

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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)
17952.7	51.35	-25.5	46.66	30.19	74	22.65	V
17939.5	50.75	-25.5	46.66	29.59	74	23.25	H
12511	46.78	-31.22	38.91	39.09	74	27.22	V
12511.55	46.66	-31.22	38.91	38.97	74	27.34	V
5146.58	57.91	-27.61	33.67	51.85	74	16.09	H
5146.26	56.65	-27.61	33.67	50.59	74	17.35	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)
17957.1	52.55	-25.5	46.66	31.39	74	21.45	V
17934	52.5	-25.5	46.66	31.34	74	21.5	V
14997	50.23	-27.85	40.21	37.87	68.2	17.97	V
12536.85	49.64	-31.05	38.99	41.7	74	24.36	H
11694.25	46.84	-31.99	38.98	39.85	74	27.16	V
11763	46.84	-31.99	38.98	39.85	74	27.16	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)
17875.15	52.25	-25.5	46.66	31.09	74	21.75	V
17892.2	52.24	-25.5	46.66	31.08	74	21.76	H
14902.4	48.8	-28.59	40.79	36.6	68.2	19.4	H
12289.9	48.65	-31.1	38.94	40.81	74	25.35	H
5364.512	53.47	-27.43	34.01	46.89	74	20.53	H
5425.904	53.23	-27.36	34.09	46.51	74	20.77	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)
17875.15	52.25	-25.5	46.66	31.09	74	21.75	V
17892.2	52.24	-25.5	46.66	31.08	74	21.76	H
14902.4	48.8	-28.59	40.79	36.6	68.2	19.4	H
12289.9	48.65	-31.1	38.94	40.81	74	25.35	H
5364.512	53.47	-27.43	34.01	46.89	74	20.53	H
5425.904	53.23	-27.36	34.09	46.51	74	20.77	V

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)
17877.35	52.03	-25.5	46.66	30.87	74	21.97	H
17082.6	51.83	-26.6	43.36	35.07	68.2	16.37	V
12515.95	48.9	-31.22	38.91	41.21	74	25.1	H
14786.9	48.6	-28.32	41.35	35.58	68.2	19.6	H
5420.215	53.63	-27.36	34.09	46.91	74	20.37	V
5466.94	58.09	-27.18	34.17	51.1	68.2	10.11	V

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)
15936.4	52.52	-27.35	38.54	41.33	74	21.48	V
17844.35	52.24	-25.5	46.66	31.08	74	21.76	V
14689.55	49.13	-28.32	41.35	36.11	68.2	19.07	H
12360.85	48.92	-31.1	38.94	41.08	74	25.08	H
11998.4	46.95	-31.48	39.09	39.34	74	27.05	H
11974.75	46.73	-31.48	39.09	39.12	74	27.27	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)
17966.45	52.64	-25.5	46.66	31.48	74	21.36	V
17986.8	52.53	-25.5	46.66	31.37	74	21.47	H
14998.1	48.89	-27.85	40.21	36.53	68.2	19.31	H
14881.5	48.73	-28.59	40.79	36.53	68.2	19.47	V
5785.074	54.42	-27.07	34.33	47.16	68.2	13.78	V
5792.249	54.1	-27.07	34.33	46.84	68.2	14.1	V

802.11ax-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)
17952.15	53.01	-25.5	46.66	31.85	74	20.99	H
17825.1	52.4	-25.5	46.66	31.24	74	21.6	V
12567.1	49.05	-31.05	38.99	41.11	74	24.95	H
14853.45	48.98	-28.59	40.79	36.78	68.2	19.22	V
5143.87	62.82	-27.61	33.67	56.76	74	11.18	V
5148.2	62.41	-27.61	33.67	56.35	74	11.59	V

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)
17941.15	52.92	-25.5	46.66	31.76	74	21.08	V
17904.85	52.41	-25.5	46.66	31.25	74	21.59	V
14784.15	49.22	-28.32	41.35	36.2	68.2	18.98	V
13001.6	49.1	-30.49	39.24	40.35	68.2	19.1	V
5352.592	61.77	-27.43	34.01	55.19	74	12.23	V
5354.432	61.64	-27.43	34.01	55.06	74	12.36	V

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)
17878.45	52.65	-25.5	46.66	31.49	74	21.35	V
17943.35	52.25	-25.5	46.66	31.09	74	21.75	V
14467.35	48.72	-28.59	42.46	34.85	68.2	19.48	H
12542.35	48.66	-31.05	38.99	40.72	74	25.34	H
5457.235	56.44	-27.18	34.17	49.45	74	17.56	V
5466.483	57.79	-27.18	34.17	50.8	68.2	10.41	V

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)
17888.9	51.94	-25.5	46.66	30.78	74	22.06	V
17975.25	51.88	-25.5	46.66	30.72	74	22.12	V
14833.65	49.09	-28.59	40.79	36.89	68.2	19.11	H
14991.5	48.94	-27.85	40.21	36.58	68.2	19.26	H
5751.229	54.57	-27.07	34.31	47.33	68.2	13.63	V
5784.129	54.08	-27.07	34.33	46.82	68.2	14.12	V

802.11ax-HT160

Channel 50

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)
17946.1	52.39	-25.5	46.66	31.23	74	21.61	H
14999.2	49.55	-27.85	40.21	37.19	68.2	18.65	H
5142.29	60.18	-27.61	33.67	54.12	74	13.82	V
5146.3	59.71	-27.61	33.67	53.65	74	14.29	V
5373.8	63.2	-27.43	34.01	56.62	74	10.8	V
5359.488	63.13	-27.43	34.01	56.55	74	10.87	V

Channel 114

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)
17950.5	52.97	-25.5	46.66	31.81	74	21.03	H
17805.3	52.05	-25.5	46.66	30.89	74	21.95	V
14758.3	48.9	-28.32	41.35	35.88	68.2	19.3	H
14501.45	48.79	-28.59	42.46	34.92	68.2	19.41	H
5456.995	59.02	-27.18	34.17	52.03	74	14.98	V
5467.63	57.41	-27.18	34.17	50.42	68.2	10.79	V

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

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.10\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE1		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.76	Fig.77	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 AE1		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.76	Fig.77	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:

Traffic:

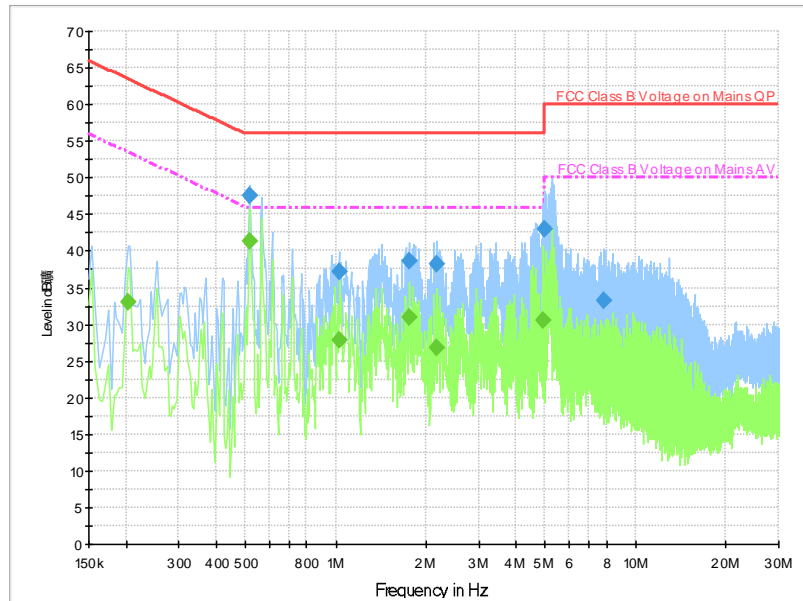


Fig.76 Conducted Emission (802.11a, Ch36, TX)

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)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.514000	47.7	5000.0	9.000	On	L1	19.7	8.3	56.0
1.030000	37.2	5000.0	9.000	On	L1	19.8	18.8	56.0
1.758000	38.6	5000.0	9.000	On	L1	19.6	17.4	56.0
2.170000	38.1	5000.0	9.000	On	L1	19.6	17.9	56.0
4.966000	43.0	5000.0	9.000	On	L1	19.6	13.0	56.0
7.830000	33.3	5000.0	9.000	On	N	19.6	26.7	60.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.202000	33.0	5000.0	9.000	On	L1	19.8	20.5	53.5
0.514000	41.4	5000.0	9.000	On	N	19.8	4.6	46.0
1.030000	27.8	5000.0	9.000	On	L1	19.8	18.2	46.0
1.754000	31.0	5000.0	9.000	On	N	19.6	15.0	46.0
2.170000	26.7	5000.0	9.000	On	L1	19.6	19.3	46.0
4.890000	30.6	5000.0	9.000	On	L1	19.6	15.4	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers if applicable.

Idle:

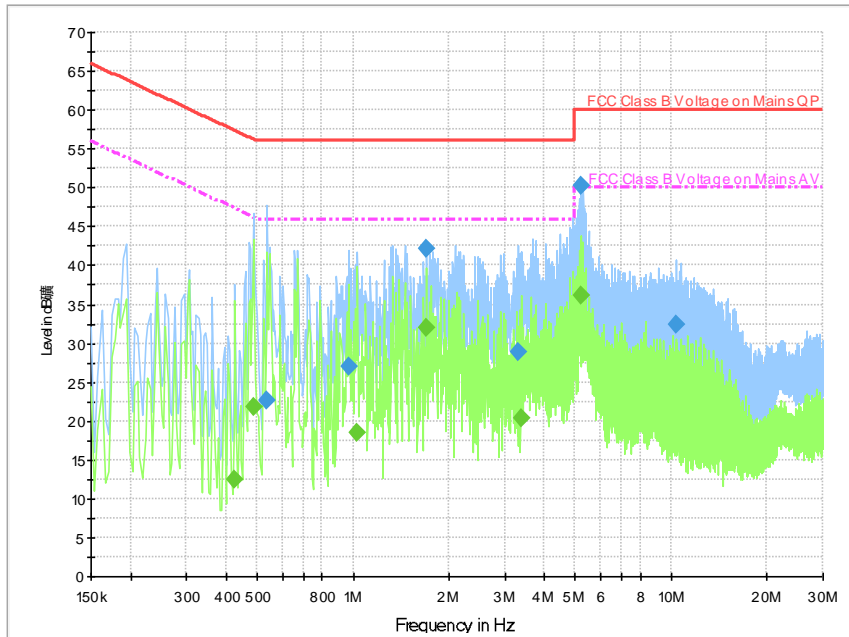


Fig.77 Conducted Emission(802.11a, IDLE)

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)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.538000	22.7	5000.0	9.000	On	L1	19.7	33.3	56.0
0.970000	26.9	5000.0	9.000	On	N	19.6	29.1	56.0
1.698000	42.1	5000.0	9.000	On	N	19.6	13.9	56.0
3.310000	28.8	5000.0	9.000	On	L1	19.6	27.2	56.0
5.218000	50.3	5000.0	9.000	On	L1	19.6	9.7	60.0
10.386000	32.4	5000.0	9.000	On	L1	19.7	27.6	60.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.426000	12.4	5000.0	9.000	On	N	19.8	34.9	47.3
0.486000	21.7	5000.0	9.000	On	N	19.8	24.5	46.2
1.034000	18.4	5000.0	9.000	On	N	19.6	27.6	46.0
1.698000	32.0	5000.0	9.000	On	N	19.6	14.0	46.0
3.370000	20.4	5000.0	9.000	On	L1	19.6	25.6	46.0
5.230000	36.0	5000.0	9.000	On	L1	19.6	14.0	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers if applicable.

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
802.11a	5180 MHz	Fig.78	16.54	P
	5200 MHz	Fig.79	16.66	P
	5240 MHz	Fig.80	16.58	P
802.11n HT20	5180 MHz	Fig.81	17.70	P
	5200 MHz	Fig.82	17.70	P
	5240 MHz	Fig.83	17.70	P
802.11an HT40	5190 MHz	Fig.84	36.04	P
	5230 MHz	Fig.85	35.96	P
802.11ac VHT80	5210 MHz	Fig.86	75.29	P
802.11ac VHT160	5250 MHz	Fig.87	154.73	P

Conclusion: PASS

Test graphs as below:

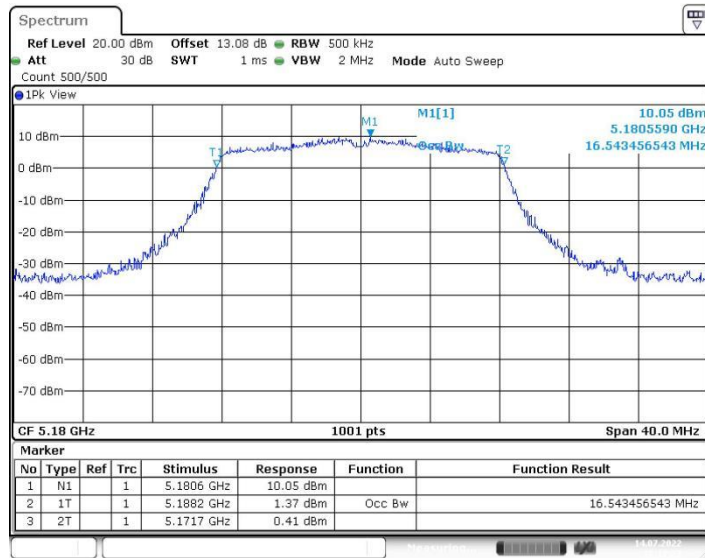


Fig.78 99% Occupied bandwidth (802.11a, 5180MHz)

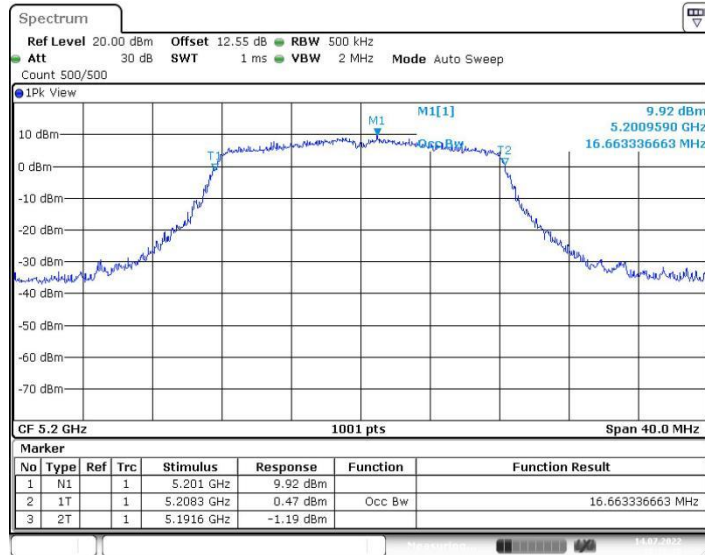


Fig.79 99% Occupied bandwidth (802.11a, 5200MHz)

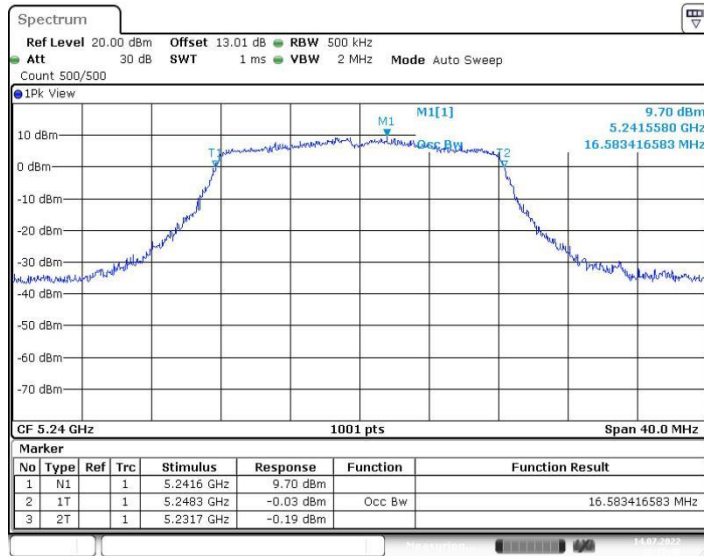


Fig.80 99% Occupied bandwidth (802.11a, 5240MHz)

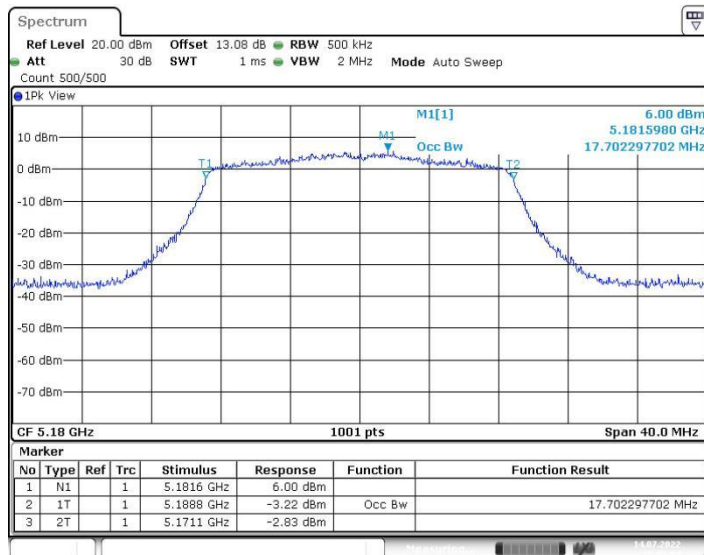


Fig.81 99% Occupied bandwidth (802.11an-HT20, 5180MHz)

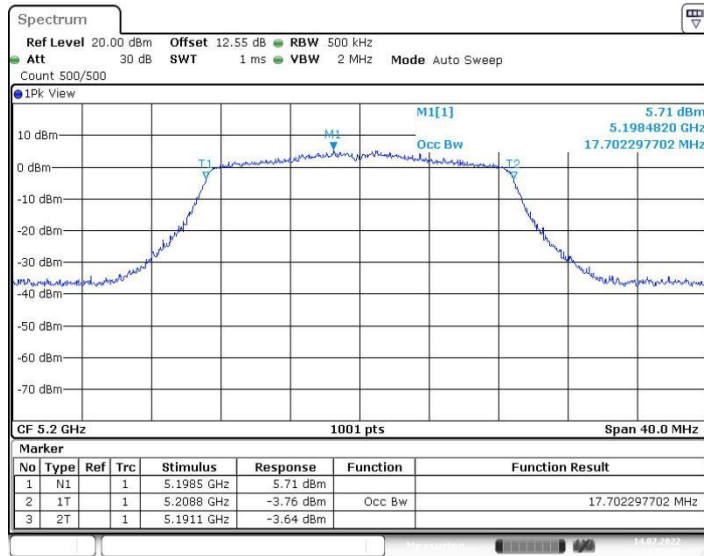


Fig.82 99% Occupied bandwidth (802.11an-HT20, 5200MHz)

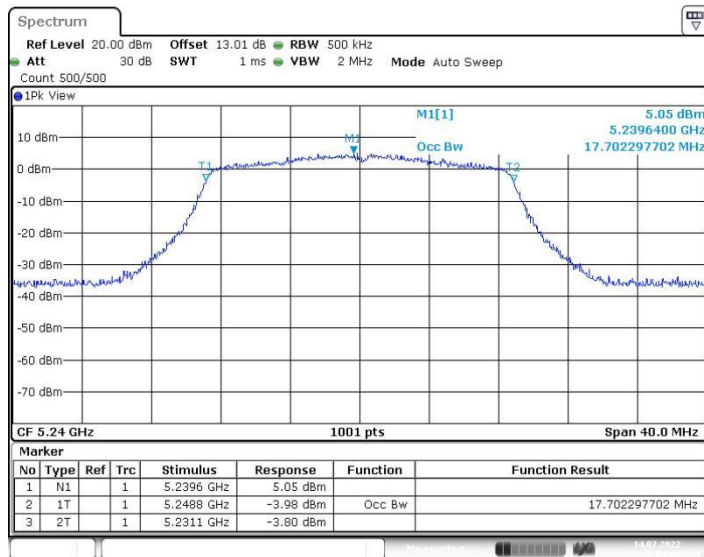


Fig.83 99% Occupied bandwidth (802.11an-HT20, 5240MHz)

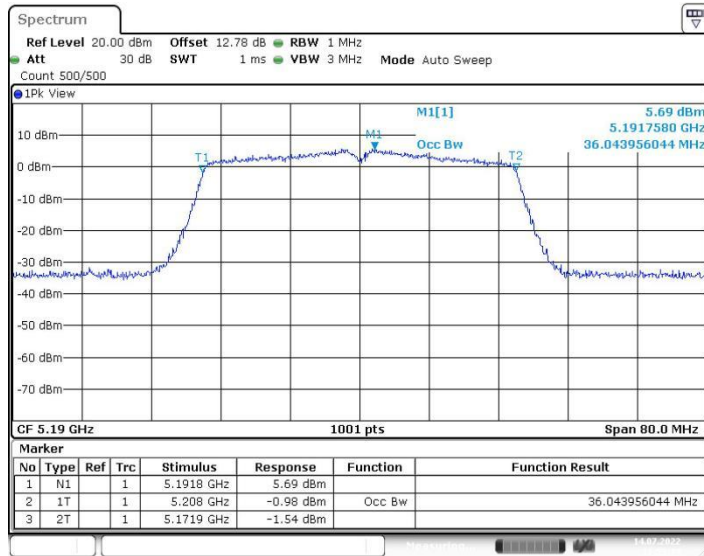


Fig.84 99% Occupied bandwidth (802.11an-HT40, 5190MHz)

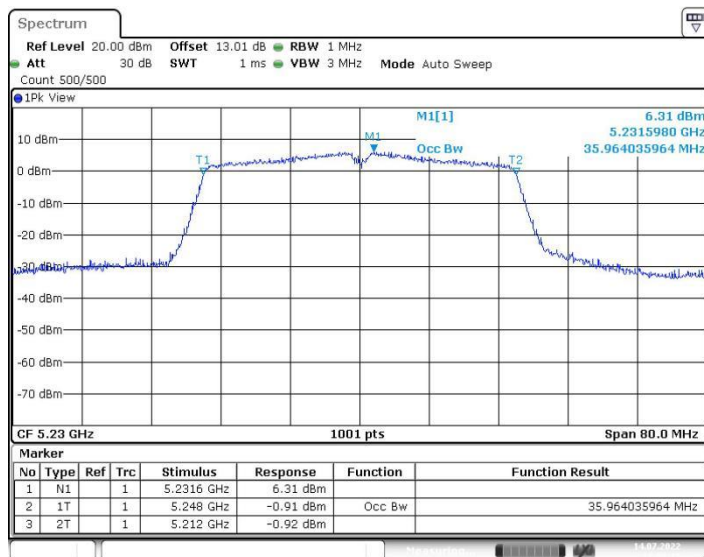


Fig.85 99% Occupied bandwidth (802.11an-HT40, 5230MHz)

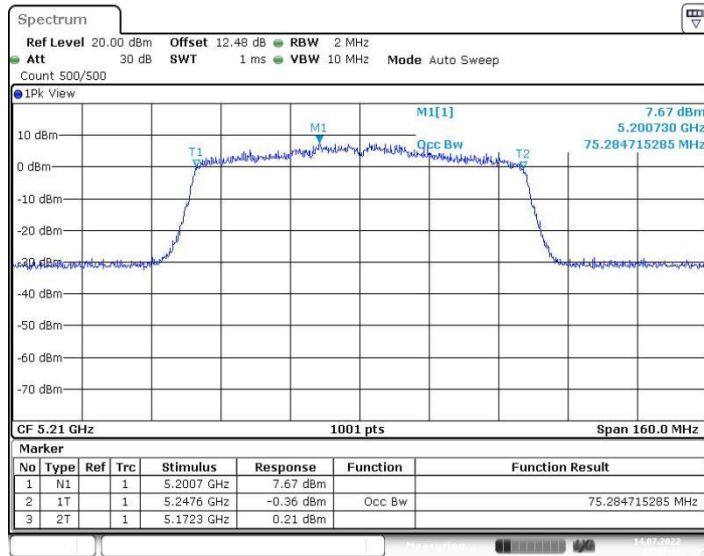


Fig.86 99% Occupied bandwidth (802.11ac-VHT80, 5210MHz)

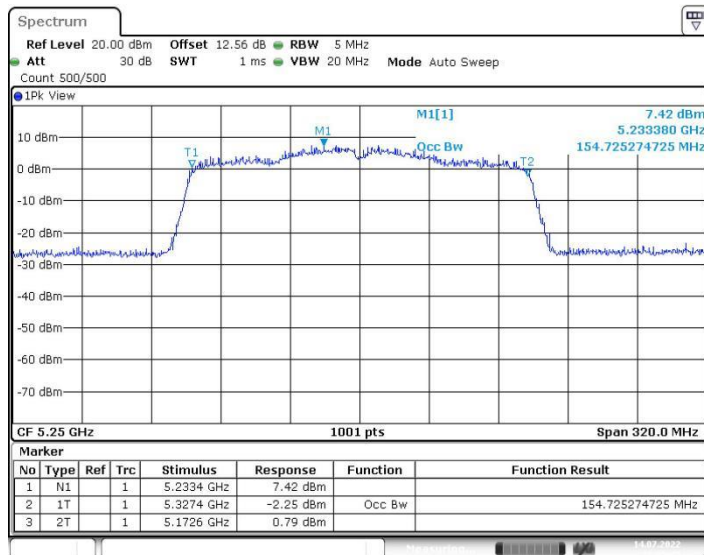


Fig.87 99% Occupied bandwidth (802.11ac-VHT160, 5250MHz)

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 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

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<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>	
<hr/> 2021-09-29 through 2022-09-30 <i>Effective Dates</i>	 For the National Voluntary Laboratory Accreditation Program

*** END OF REPORT BODY ***