

Channel 142

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)
17997.800	52.89	-25.50	46.66	31.73	74.00	21.11	H
17992.800	52.33	-25.50	46.66	31.17	74.00	21.67	H
14013.600	50.43	-29.44	41.66	38.21	68.30	17.87	V
13590.100	50.34	-29.50	40.43	39.41	68.30	17.96	V
11777.900	46.60	-31.99	38.98	39.61	74.00	27.40	V
11562.800	46.57	-32.31	38.91	39.98	74.00	27.43	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)
17740.400	52.65	-25.50	46.66	31.49	74.00	21.35	H
17838.300	51.89	-25.50	46.66	30.73	74.00	22.11	V
13673.700	50.21	-29.50	40.43	39.28	68.30	18.09	H
13533.500	50.17	-29.56	39.99	39.74	68.30	18.13	V
5147.800	55.63	-27.61	33.67	49.57	74.00	18.37	H
5148.900	55.44	-27.61	33.67	49.38	74.00	18.56	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)
17961.000	52.31	-25.50	46.66	31.15	74.00	21.69	H
17594.100	52.30	-25.74	45.95	32.09	68.30	16.00	V
13873.400	49.81	-29.51	41.30	38.02	68.30	18.49	H
13733.100	49.72	-29.10	40.86	37.95	68.30	18.58	V
10404.500	47.42	-33.22	38.19	42.45	68.30	20.88	V
11934.000	46.65	-31.48	39.09	39.04	74.00	27.35	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)
17977.500	51.94	-25.50	46.66	30.78	74.00	22.06	H
17417.500	51.88	-26.85	45.25	33.48	68.30	16.42	V
13617.600	49.74	-29.50	40.43	38.81	68.30	18.56	H
13729.200	49.64	-29.10	40.86	37.87	68.30	18.66	V
11950.000	46.82	-31.48	39.09	39.21	74.00	27.18	V
10271.400	46.67	-33.68	38.17	42.17	68.30	21.63	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)
17981.800	53.26	-25.50	46.66	32.10	74.00	20.74	V
17311.400	53.08	-25.95	44.35	34.67	68.30	15.22	V
13660.000	50.61	-29.50	40.43	39.68	68.30	17.69	V
13636.900	50.56	-29.50	40.43	39.63	68.30	17.74	H
7013.200	48.30	-35.24	36.14	47.39	68.30	20.00	H
11995.100	47.45	-31.48	39.09	39.84	74.00	26.55	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)
17989.500	52.33	-25.50	46.66	31.17	74.00	21.67	V
17700.200	52.15	-25.74	45.95	31.94	74.00	21.85	H
13605.000	49.85	-29.50	40.43	38.92	68.30	18.45	H
13679.200	49.78	-29.50	40.43	38.85	68.30	18.52	H
7039.600	48.85	-35.37	36.25	47.97	68.30	19.45	H
7040.100	48.38	-35.37	36.25	47.50	68.30	19.92	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)
17844.900	52.31	-25.50	46.66	31.15	74.00	21.69	V
17755.200	52.08	-25.50	46.66	30.92	74.00	21.92	H
13656.600	50.21	-29.50	40.43	39.28	68.30	18.09	V
13643.500	49.95	-29.50	40.43	39.02	68.30	18.35	H
5350.400	55.78	-27.43	34.01	49.20	74.00	18.22	H
5351.600	54.88	-27.43	34.01	48.30	74.00	19.12	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)
17857.000	52.65	-25.50	46.66	31.49	74.00	21.35	H
17742.000	52.34	-25.50	46.66	31.18	74.00	21.66	H
13580.800	50.14	-29.50	40.43	39.21	68.30	18.16	H
13665.500	50.12	-29.50	40.43	39.19	68.30	18.18	H
5376.200	53.14	-27.36	34.09	46.42	74.00	20.86	H
5469.100	52.89	-27.18	34.17	45.90	68.30	15.41	H

Channel 116

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)
17987.300	52.03	-25.50	46.66	30.87	74.00	21.97	V
17804.800	52.01	-25.50	46.66	30.85	74.00	21.99	V
13572.000	50.25	-29.50	40.43	39.32	68.30	18.05	V
13727.600	50.18	-29.10	40.86	38.41	68.30	18.12	V
11842.200	47.04	-31.85	39.05	39.84	74.00	26.96	V
11937.900	46.92	-31.48	39.09	39.31	74.00	27.08	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)
17617.200	53.09	-25.74	45.95	32.88	68.30	15.21	H
17767.300	52.65	-25.50	46.66	31.49	74.00	21.35	H
13672.600	50.67	-29.50	40.43	39.74	68.30	17.63	V
13665.500	50.18	-29.50	40.43	39.25	68.30	18.12	V
5726.400	56.55	-27.07	34.31	49.31	68.30	11.75	H
5725.000	55.54	-27.07	34.31	48.30	68.30	12.76	H

Channel 144

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)
17964.800	52.67	-25.50	46.66	31.51	74.00	21.33	V
17565.500	52.43	-25.74	45.95	32.22	68.30	15.87	V
13752.900	50.33	-29.10	40.86	38.56	68.30	17.97	V
13737.500	50.31	-29.10	40.86	38.54	68.30	17.99	V

11046.400	47.22	-32.49	38.72	40.98	74.00	26.78	H
11944.000	46.78	-31.48	39.09	39.17	74.00	27.22	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)
17772.300	52.16	-25.50	46.66	31.00	74.00	21.84	V
17926.300	52.07	-25.50	46.66	30.91	74.00	21.93	V
13697.900	50.69	-29.10	40.86	38.92	68.30	17.61	V
13581.300	49.88	-29.50	40.43	38.95	68.30	18.42	H
5149.700	60.89	-27.61	33.67	54.83	74.00	13.11	H
5150.000	60.11	-27.61	33.67	54.05	74.00	13.89	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)
17275.100	52.37	-25.95	44.35	33.96	68.30	15.93	H
17687.600	52.13	-25.74	45.95	31.92	68.30	16.17	H
13574.700	50.90	-29.50	40.43	39.97	68.30	17.40	H
13579.100	50.28	-29.50	40.43	39.35	68.30	18.02	H
11820.800	46.67	-31.85	39.05	39.47	74.00	27.33	V
11052.400	46.60	-32.49	38.72	40.36	74.00	27.40	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)
17187.700	52.52	-26.60	43.36	35.76	68.30	15.78	V
17907.600	52.24	-25.50	46.66	31.08	74.00	21.76	H
13642.400	50.74	-29.50	40.43	39.81	68.30	17.56	H
13675.900	50.58	-29.50	40.43	39.65	68.30	17.72	H
7026.400	48.58	-35.24	36.14	47.67	68.30	19.72	H
7026.900	46.89	-35.24	36.14	45.98	68.30	21.41	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)
17983.000	52.37	-25.50	46.66	31.21	74.00	21.63	H
17737.100	51.96	-25.50	46.66	30.80	74.00	22.04	H
14317.800	50.17	-28.42	42.34	36.25	68.30	18.13	V
13552.700	50.12	-29.56	39.99	39.69	68.30	18.18	V
5350.300	61.88	-27.43	34.01	55.30	74.00	12.12	H
5351.500	60.45	-27.43	34.01	53.87	74.00	13.55	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)
17939.000	52.69	-25.50	46.66	31.53	74.00	21.31	H
17981.800	52.29	-25.50	46.66	31.13	74.00	21.71	H
13657.800	50.02	-29.50	40.43	39.09	68.30	18.28	H
13660.000	50.01	-29.50	40.43	39.08	68.30	18.29	V
5457.600	54.68	-27.18	34.17	47.69	74.00	19.32	H
5469.200	59.50	-27.18	34.17	52.51	68.30	8.80	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)
17980.800	53.03	-25.50	46.66	31.87	74.00	20.97	H
17626.500	52.70	-25.74	45.95	32.49	68.30	15.60	H
14219.300	50.39	-28.99	42.00	37.37	68.30	17.91	V
13604.400	50.28	-29.50	40.43	39.35	68.30	18.02	H
11433.000	46.65	-32.42	38.79	40.28	74.00	27.35	H
11945.000	46.24	-31.48	39.09	38.63	74.00	27.76	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)
17826.800	52.14	-25.50	46.66	30.98	74.00	21.86	V
17744.800	52.09	-25.50	46.66	30.93	74.00	21.91	V
13646.800	50.61	-29.50	40.43	39.68	68.30	17.69	V
13659.400	50.20	-29.50	40.43	39.27	68.30	18.10	V
5806.500	53.39	-27.07	34.33	46.13	68.30	14.91	V
5818.500	53.37	-27.07	34.33	46.11	68.30	14.93	H

Channel 142

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)
17268.500	52.11	-25.95	44.35	33.70	68.30	16.19	V
17306.500	52.05	-25.95	44.35	33.64	68.30	16.25	V
13550.500	50.76	-29.56	39.99	40.33	68.30	17.54	H
13612.600	50.24	-29.50	40.43	39.31	68.30	18.06	H
11927.500	47.15	-31.48	39.09	39.54	74.00	26.85	H
11924.100	46.92	-31.48	39.09	39.31	74.00	27.08	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)
17377.400	52.27	-25.95	44.35	33.86	68.30	16.03	H
17918.600	52.27	-25.50	46.66	31.11	74.00	21.73	H
13611.500	50.66	-29.50	40.43	39.73	68.30	17.64	H
13598.900	50.42	-29.50	40.43	39.49	68.30	17.88	V
5147.300	63.47	-27.61	33.67	57.41	74.00	10.53	H
5147.500	62.84	-27.61	33.67	56.78	74.00	11.16	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)
17809.200	52.92	-25.50	46.66	31.76	74.00	21.08	V
17479.700	52.36	-26.85	45.25	33.96	68.30	15.94	V
13923.400	50.49	-29.51	41.30	38.70	68.30	17.81	V
13756.200	50.32	-29.10	40.86	38.55	68.30	17.98	H
5360.300	58.50	-27.43	34.01	51.92	74.00	15.50	H
5359.800	58.41	-27.43	34.01	51.83	74.00	15.59	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)
17655.200	53.39	-25.74	45.95	33.18	68.30	14.91	V
17725.000	52.24	-25.74	45.95	32.03	74.00	21.76	V
13639.600	50.46	-29.50	40.43	39.53	68.30	17.84	H
13650.000	50.15	-29.50	40.43	39.22	68.30	18.15	H
5457.500	55.19	-27.18	34.17	48.20	74.00	18.81	H
5469.600	54.37	-27.18	34.17	47.38	68.30	13.93	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)
17961.000	52.33	-25.50	46.66	31.17	74.00	21.67	H
17952.700	52.28	-25.50	46.66	31.12	74.00	21.72	H
13765.500	49.93	-29.10	40.86	38.16	68.30	18.37	V
13749.000	49.84	-29.10	40.86	38.07	68.30	18.46	V
5728.100	56.35	-27.07	34.31	49.11	68.30	11.95	H
5737.900	55.93	-27.07	34.31	48.69	68.30	12.37	H

Channel 138

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)
17734.300	52.70	-25.74	45.95	32.49	74.00	21.30	V
17976.900	52.29	-25.50	46.66	31.13	74.00	21.71	V
14251.800	50.35	-28.42	42.34	36.43	68.30	17.95	V
13641.800	50.02	-29.50	40.43	39.09	68.30	18.28	V
10189.500	47.28	-33.33	38.15	42.46	68.30	21.02	H
11924.100	46.55	-31.48	39.09	38.94	74.00	27.45	H

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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)
17750.800	52.41	-25.50	46.66	31.25	74.00	21.59	H
17296.500	52.23	-25.95	44.35	33.82	68.30	16.07	H
13708.400	50.32	-29.10	40.86	38.55	68.30	17.98	V
13766.100	49.82	-29.10	40.86	38.05	68.30	18.48	V
5354.500	62.24	-27.43	34.01	55.66	74.00	11.76	V
5395.500	61.71	-27.36	34.09	54.99	74.00	12.29	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)
17957.100	52.73	-25.50	46.66	31.57	74.00	21.27	V
17748.700	52.57	-25.50	46.66	31.41	74.00	21.43	H
13636.900	50.09	-29.50	40.43	39.16	68.30	18.21	H
13751.800	49.81	-29.10	40.86	38.04	68.30	18.49	V
5456.600	62.34	-27.18	34.17	55.35	74.00	11.66	V
5468.100	62.45	-27.18	34.17	55.46	68.30	5.85	V

802.11ax-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)
17766.200	52.24	-25.50	46.66	31.08	74.00	21.76	H
17984.600	52.22	-25.50	46.66	31.06	74.00	21.78	H
13658.900	50.71	-29.50	40.43	39.78	68.30	17.59	V
13551.600	50.66	-29.56	39.99	40.23	68.30	17.64	H
5149.900	59.60	-27.61	33.67	53.54	74.00	14.40	H
5149.000	59.22	-27.61	33.67	53.16	74.00	14.78	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)
17408.200	52.62	-26.85	45.25	34.22	68.30	15.68	V
17995.000	52.35	-25.50	46.66	31.19	74.00	21.65	V
13575.800	50.46	-29.50	40.43	39.53	68.30	17.84	H
13628.600	50.02	-29.50	40.43	39.09	68.30	18.28	V
10395.100	47.97	-33.22	38.19	43.00	68.30	20.33	V
10395.700	46.78	-33.22	38.19	41.81	68.30	21.52	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)
17598.500	52.46	-25.74	45.95	32.25	68.30	15.84	H
17634.800	52.06	-25.74	45.95	31.85	68.30	16.24	V
13581.300	49.97	-29.50	40.43	39.04	68.30	18.33	V
13554.400	49.86	-29.56	39.99	39.43	68.30	18.44	V
11445.100	47.07	-32.42	38.79	40.70	74.00	26.93	V
11934.600	47.02	-31.48	39.09	39.41	74.00	26.98	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)
17924.700	52.95	-25.50	46.66	31.79	74.00	21.05	H
17686.000	52.69	-25.74	45.95	32.48	68.30	15.61	H
13601.100	50.73	-29.50	40.43	39.80	68.30	17.57	V
13644.500	50.33	-29.50	40.43	39.40	68.30	17.97	V
7012.600	49.45	-35.24	36.14	48.54	68.30	18.85	H
7013.200	49.36	-35.24	36.14	48.45	68.30	18.94	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)
17979.700	52.89	-25.50	46.66	31.73	74.00	21.11	V
17861.400	52.55	-25.50	46.66	31.39	74.00	21.45	V
13749.000	51.31	-29.10	40.86	39.54	68.30	16.99	V
13562.600	49.95	-29.50	40.43	39.02	68.30	18.35	V
7039.600	49.17	-35.37	36.25	48.29	68.30	19.13	H
7040.100	48.40	-35.37	36.25	47.52	68.30	19.90	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)
17683.200	52.70	-25.74	45.95	32.49	68.30	15.60	H
17757.500	52.35	-25.50	46.66	31.19	74.00	21.65	H
13565.400	51.18	-29.50	40.43	40.25	68.30	17.12	H
13656.100	51.08	-29.50	40.43	40.15	68.30	17.22	H
5350.400	59.53	-27.43	34.01	52.95	74.00	14.47	H
5350.200	59.01	-27.43	34.01	52.43	74.00	14.99	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)
17920.800	52.15	-25.50	46.66	30.99	74.00	21.85	H
16542.500	51.96	-26.96	39.82	39.10	68.30	16.34	V
13546.100	50.18	-29.56	39.99	39.75	68.30	18.12	H
13651.100	50.17	-29.50	40.43	39.24	68.30	18.13	V
5416.500	52.99	-27.36	34.09	46.27	74.00	21.01	H
5469.900	57.91	-27.18	34.17	50.92	68.30	10.39	H

Channel 116

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)
17690.300	52.20	-25.74	45.95	31.99	68.30	16.10	H
17991.800	52.20	-25.50	46.66	31.04	74.00	21.80	H
13540.000	50.26	-29.56	39.99	39.83	68.30	18.04	H
13597.200	50.12	-29.50	40.43	39.19	68.30	18.18	H
11538.000	46.83	-32.26	38.84	40.26	74.00	27.17	V
10559.600	46.74	-32.99	38.27	41.45	68.30	21.56	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)
17957.700	53.02	-25.50	46.66	31.86	74.00	20.98	H
17855.300	52.87	-25.50	46.66	31.71	74.00	21.13	H
13655.000	50.88	-29.50	40.43	39.95	68.30	17.42	V
13767.800	50.36	-29.10	40.86	38.59	68.30	17.94	V
5725.400	65.47	-27.07	34.31	58.23	68.30	2.83	H
5726.700	61.55	-27.07	34.31	54.31	68.30	6.75	H

Channel 144

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)
17716.200	52.57	-25.74	45.95	32.36	74.00	21.43	V
17971.400	52.55	-25.50	46.66	31.39	74.00	21.45	V
13621.500	50.05	-29.50	40.43	39.12	68.30	18.25	H
13573.000	49.90	-29.50	40.43	38.97	68.30	18.40	H
11991.800	47.36	-31.48	39.09	39.75	74.00	26.64	V
11539.100	46.83	-32.26	38.84	40.26	74.00	27.17	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)
17672.200	52.31	-25.74	45.95	32.10	68.30	15.99	V
17769.000	52.29	-25.50	46.66	31.13	74.00	21.71	H
13563.100	50.55	-29.50	40.43	39.62	68.30	17.75	H
13623.100	50.12	-29.50	40.43	39.19	68.30	18.18	H
5147.900	62.95	-27.61	33.67	56.89	74.00	11.05	H
5143.400	62.73	-27.61	33.67	56.67	74.00	11.27	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)
17988.500	52.65	-25.50	46.66	31.49	74.00	21.35	V
17847.700	52.61	-25.50	46.66	31.45	74.00	21.39	H
13580.200	50.28	-29.50	40.43	39.35	68.30	18.02	V
13638.500	50.00	-29.50	40.43	39.07	68.30	18.30	H
11951.600	46.33	-31.48	39.09	38.72	74.00	27.67	V
11974.200	46.18	-31.48	39.09	38.57	74.00	27.82	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)
17370.800	52.48	-25.95	44.35	34.07	68.30	15.82	V
17931.800	52.30	-25.50	46.66	31.14	74.00	21.70	H
13569.200	50.55	-29.50	40.43	39.62	68.30	17.75	V
13660.500	50.30	-29.50	40.43	39.37	68.30	18.00	H
7026.400	49.06	-35.24	36.14	48.15	68.30	19.24	H
7026.900	47.26	-35.24	36.14	46.35	68.30	21.04	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)
17796.000	52.83	-25.50	46.66	31.67	74.00	21.17	V
17723.900	52.39	-25.74	45.95	32.18	74.00	21.61	H
13552.700	50.15	-29.56	39.99	39.72	68.30	18.15	V
13665.500	50.15	-29.50	40.43	39.22	68.30	18.15	V
5358.400	62.27	-27.43	34.01	55.69	74.00	11.73	H
5353.500	61.83	-27.43	34.01	55.25	74.00	12.17	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)
17714.500	52.85	-25.74	45.95	32.64	74.00	21.15	V
17887.200	52.47	-25.50	46.66	31.31	74.00	21.53	H
13739.100	50.42	-29.10	40.86	38.65	68.30	17.88	V
13578.500	50.20	-29.50	40.43	39.27	68.30	18.10	V
5458.400	58.05	-27.18	34.17	51.06	74.00	15.95	H
5462.400	60.00	-27.18	34.17	53.01	68.30	8.30	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)
17745.300	53.17	-25.50	46.66	32.01	74.00	20.83	H
17822.900	52.69	-25.50	46.66	31.53	74.00	21.31	V
13545.000	50.36	-29.56	39.99	39.93	68.30	17.94	V
13631.400	49.62	-29.50	40.43	38.69	68.30	18.68	V
11929.600	46.47	-31.48	39.09	38.86	74.00	27.53	H
11851.000	46.31	-31.85	39.05	39.11	74.00	27.69	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)
17863.000	52.15	-25.50	46.66	30.99	74.00	21.85	H
17819.000	52.08	-25.50	46.66	30.92	74.00	21.92	H
13597.800	51.14	-29.50	40.43	40.21	68.30	17.16	V
13602.800	50.18	-29.50	40.43	39.25	68.30	18.12	H
5816.600	54.09	-27.07	34.33	46.83	68.30	14.21	V
5747.000	53.77	-27.07	34.31	46.53	68.30	14.53	H

Channel 142

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)
17345.500	52.53	-25.95	44.35	34.12	68.30	15.77	V
17969.200	52.40	-25.50	46.66	31.24	74.00	21.60	H
13613.800	50.33	-29.50	40.43	39.40	68.30	17.97	V
13626.400	49.88	-29.50	40.43	38.95	68.30	18.42	H
11532.000	47.74	-32.26	38.84	41.17	74.00	26.26	V
11930.800	47.14	-31.48	39.09	39.53	74.00	26.86	H

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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)
17934.500	52.39	-25.50	46.66	31.23	74.00	21.61	V
17608.400	51.86	-25.74	45.95	31.65	68.30	16.44	V
13744.100	50.26	-29.10	40.86	38.49	68.30	18.04	H
13764.500	50.21	-29.10	40.86	38.44	68.30	18.09	H
5149.900	64.07	-27.61	33.67	58.01	74.00	9.93	H
5149.000	63.81	-27.61	33.67	57.75	74.00	10.19	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)
17765.700	52.48	-25.50	46.66	31.32	74.00	21.52	H
17988.500	52.43	-25.50	46.66	31.27	74.00	21.57	H
13578.500	50.24	-29.50	40.43	39.31	68.30	18.06	V
7053.400	50.15	-35.37	36.25	49.27	68.30	18.15	V
5352.600	58.64	-27.43	34.01	52.06	74.00	15.36	H
5361.300	58.26	-27.43	34.01	51.68	74.00	15.74	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)
17810.200	52.60	-25.50	46.66	31.44	74.00	21.40	V
17401.000	52.38	-26.85	45.25	33.98	68.30	15.92	V
13748.500	49.76	-29.10	40.86	37.99	68.30	18.54	V
13638.500	49.67	-29.50	40.43	38.74	68.30	18.63	V
5459.400	55.10	-27.18	34.17	48.11	74.00	18.90	H
5465.300	55.67	-27.18	34.17	48.68	68.30	12.63	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)
17541.800	52.29	-26.85	45.25	33.89	68.30	16.01	V
17737.700	52.07	-25.50	46.66	30.91	74.00	21.93	V
13596.100	50.01	-29.50	40.43	39.08	68.30	18.29	V
13655.500	49.89	-29.50	40.43	38.96	68.30	18.41	H
5727.600	57.98	-27.07	34.31	50.74	68.30	10.32	H
5725.300	57.30	-27.07	34.31	50.06	68.30	11.00	H

Channel 138

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)
17865.800	53.19	-25.50	46.66	32.03	74.00	20.81	H
17623.200	52.17	-25.74	45.95	31.96	68.30	16.13	V
13644.500	50.52	-29.50	40.43	39.59	68.30	17.78	H
13563.700	49.77	-29.50	40.43	38.84	68.30	18.53	H
11930.800	47.83	-31.48	39.09	40.22	74.00	26.17	H
11818.500	47.34	-31.85	39.05	40.14	74.00	26.66	H

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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)
17704.700	52.60	-25.74	45.95	32.39	74.00	21.40	V
17916.400	52.57	-25.50	46.66	31.41	74.00	21.43	V
13543.900	50.06	-29.56	39.99	39.63	68.30	18.24	H
13646.800	49.95	-29.50	40.43	39.02	68.30	18.35	V
5364.000	61.55	-27.43	34.01	54.97	74.00	12.45	H
5381.900	61.16	-27.36	34.09	54.44	74.00	12.84	H

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)
17764.600	52.88	-25.50	46.66	31.72	74.00	21.12	H
17995.600	52.32	-25.50	46.66	31.16	74.00	21.68	V
13554.400	50.33	-29.56	39.99	39.90	68.30	17.97	H
13732.000	49.95	-29.10	40.86	38.18	68.30	18.35	V
5443.500	54.33	-27.18	34.17	47.34	74.00	19.67	H
5461.400	54.10	-27.18	34.17	47.11	68.30	14.20	H

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 (dBμV)	Result (dBμV)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.80	Fig.81	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 (dBμV)	Result (dBμV)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.80	Fig.81	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:

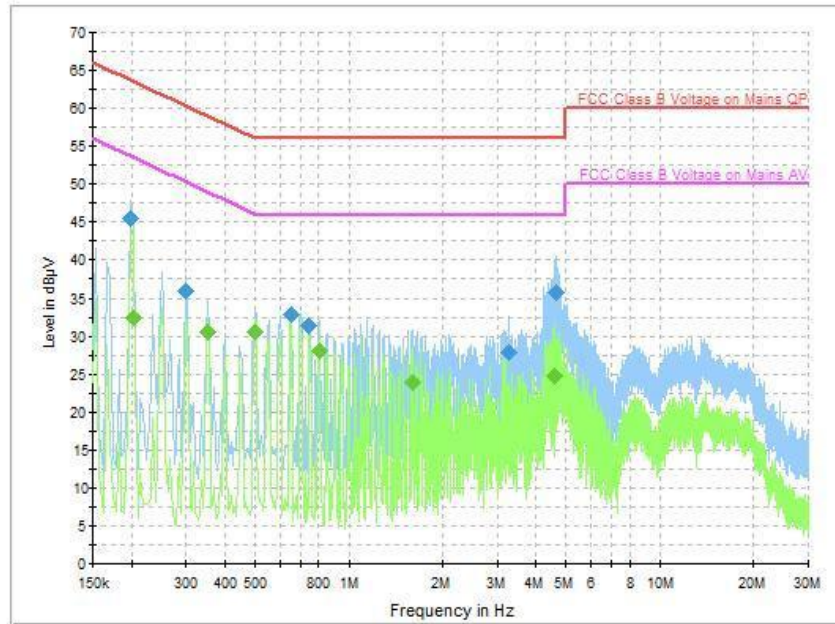


Fig.80 Conducted Emission (802.11a, Ch36, TX)

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)
0.198000	45.57	5000.0	9.000	On	L1	19.83	18.10	63.70
0.298000	35.90	5000.0	9.000	On	L1	19.81	24.40	60.30
0.650000	32.78	5000.0	9.000	On	N	19.61	23.20	56.00
0.746000	31.47	5000.0	9.000	On	N	19.60	24.50	56.00
3.258000	27.80	5000.0	9.000	On	L1	19.55	28.20	56.00
4.654000	35.81	5000.0	9.000	On	N	19.53	20.20	56.00

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.202000	32.45	5000.0	9.000	On	N	19.72	21.10	53.50
0.350000	30.58	5000.0	9.000	On	N	19.77	18.40	49.00
0.498000	30.50	5000.0	9.000	On	N	19.85	15.50	46.00
0.802000	28.01	5000.0	9.000	On	N	19.60	18.00	46.00
1.602000	23.82	5000.0	9.000	On	N	19.62	22.20	46.00
4.598000	24.73	5000.0	9.000	On	N	19.52	21.30	46.00

Note2: The measurement results showed here are worst cases .

Idle:

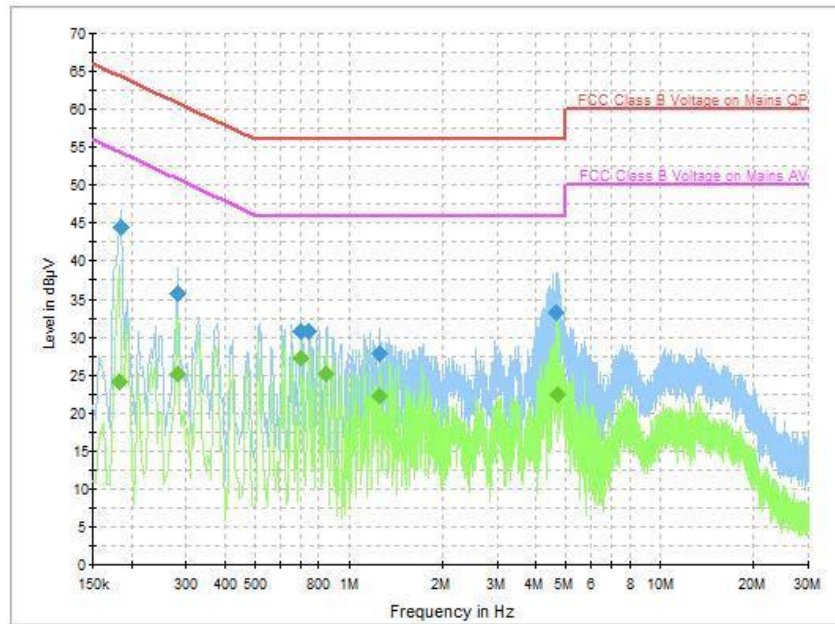


Fig.81 Conducted Emission(802.11a, IDLE)

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)
0.186000	44.50	5000.0	9.000	On	L1	19.81	19.70	64.20
0.282000	35.83	5000.0	9.000	On	L1	19.82	24.90	60.80
0.702000	30.81	5000.0	9.000	On	N	19.57	25.20	56.00
0.742000	30.80	5000.0	9.000	On	N	19.60	25.20	56.00
1.258000	27.85	5000.0	9.000	On	N	19.60	28.20	56.00
4.650000	33.29	5000.0	9.000	On	L1	19.55	22.70	56.00

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.182000	24.16	5000.0	9.000	On	L1	19.81	30.20	54.40
0.282000	25.06	5000.0	9.000	On	L1	19.82	25.70	50.80
0.702000	27.23	5000.0	9.000	On	N	19.57	18.80	46.00
0.842000	25.18	5000.0	9.000	On	N	19.58	20.80	46.00
1.258000	22.17	5000.0	9.000	On	N	19.60	23.80	46.00
4.702000	22.53	5000.0	9.000	On	N	19.54	23.50	46.00

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.82	39.64	P
	5200 MHz	Fig.83	16.72	P
	5240 MHz	Fig.84	16.68	P
802.11ax HE20	5180 MHz	Fig.85	19.24	P
	5200 MHz	Fig.86	19.28	P
	5240 MHz	Fig.87	19.24	P
802.11ax HE40	5190 MHz	Fig.88	38.00	P
	5230 MHz	Fig.89	38.00	P
802.11ax HE80	5210 MHz	Fig.90	77.92	P
802.11ax HE160	5250 MHz	Fig.91	157.44	P

Conclusion: PASS

Test graphs as below:

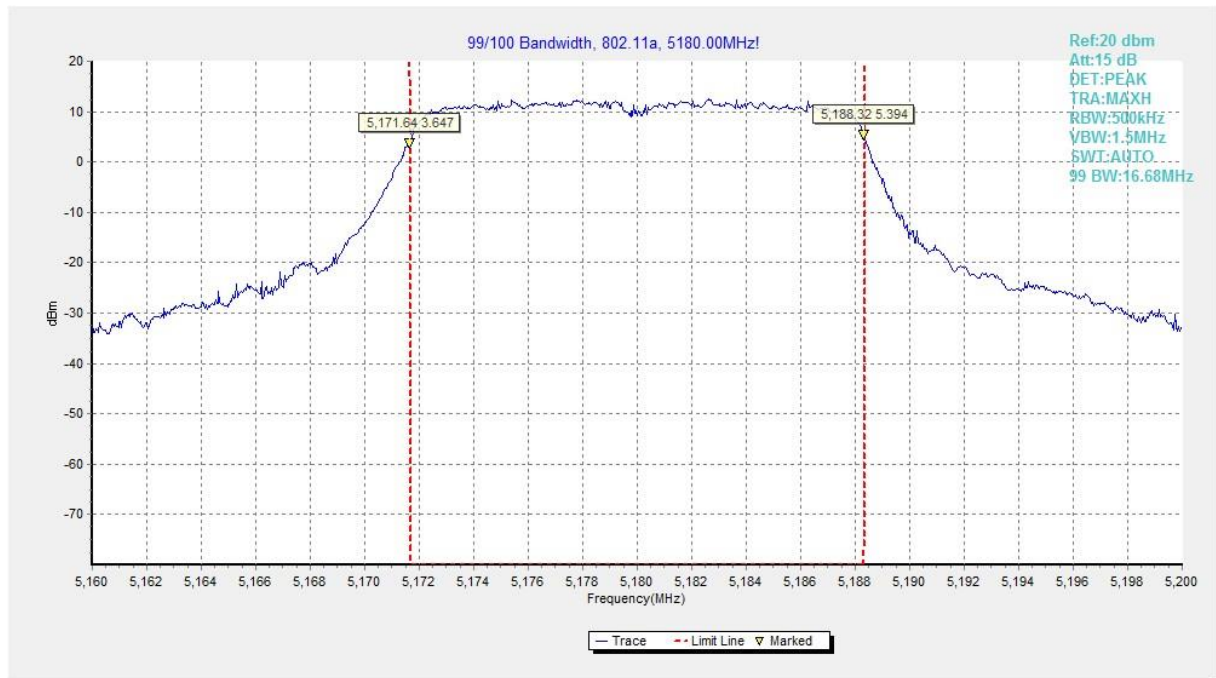


Fig.82 99% Occupied bandwidth (802.11a, 5180MHz)

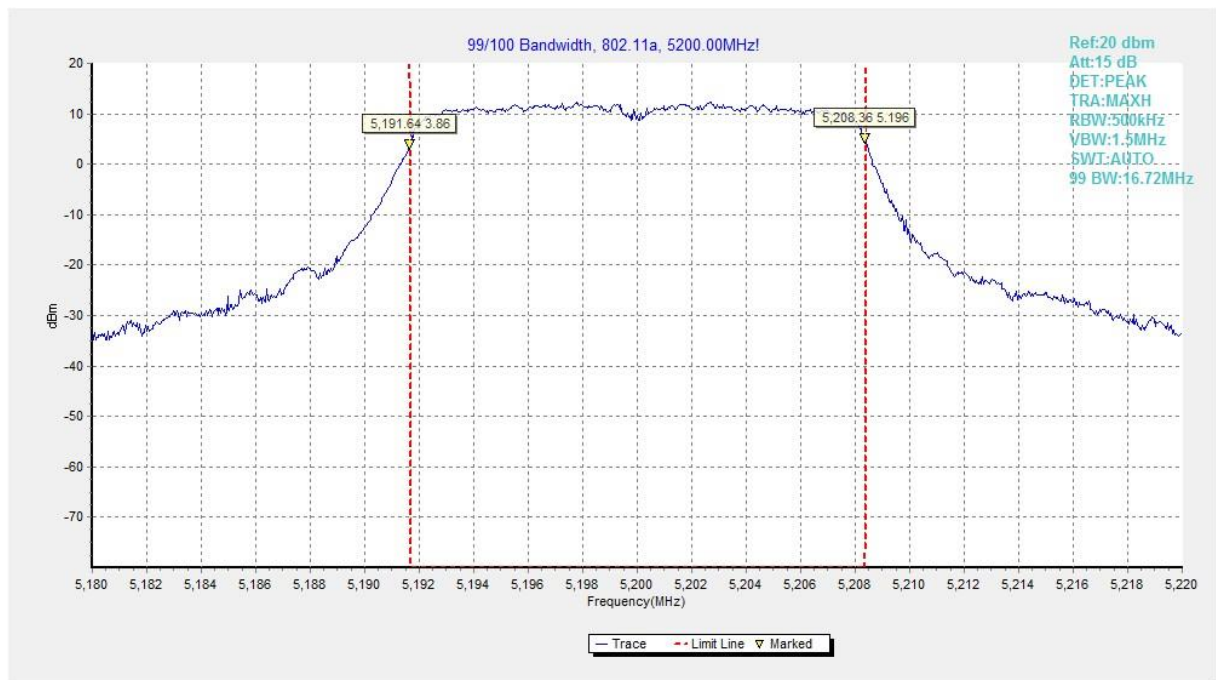


Fig.83 99% Occupied bandwidth (802.11a, 5200MHz)

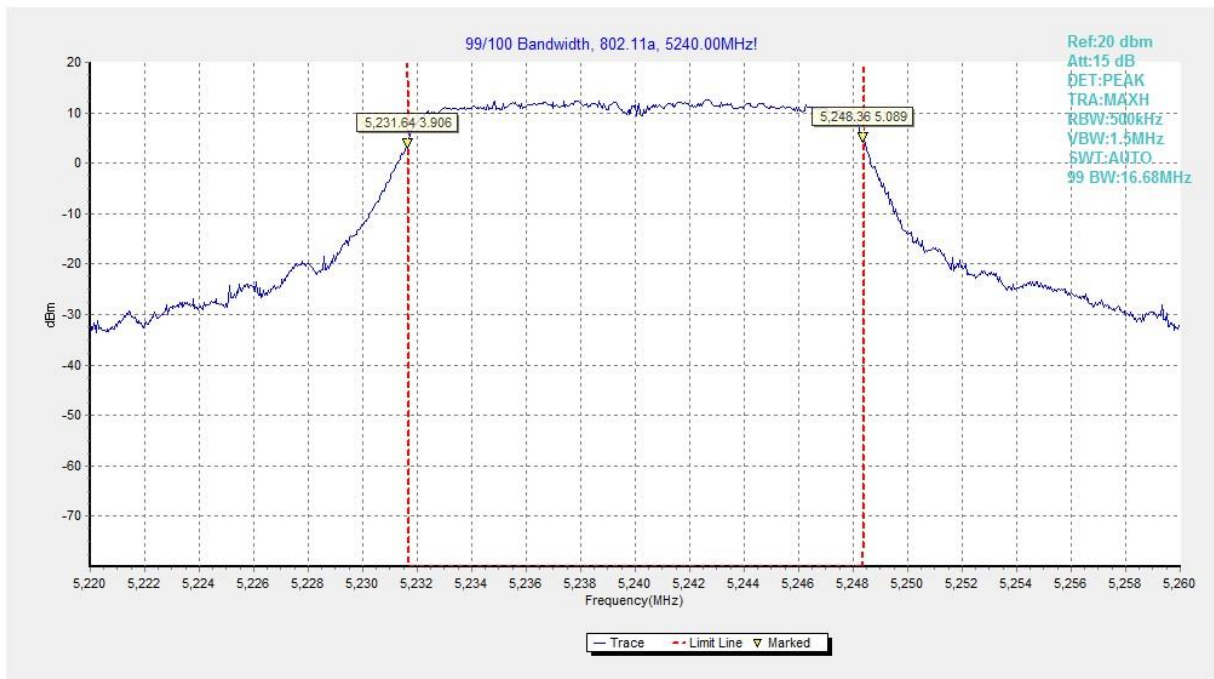


Fig.84 99% Occupied bandwidth (802.11a, 5240MHz)

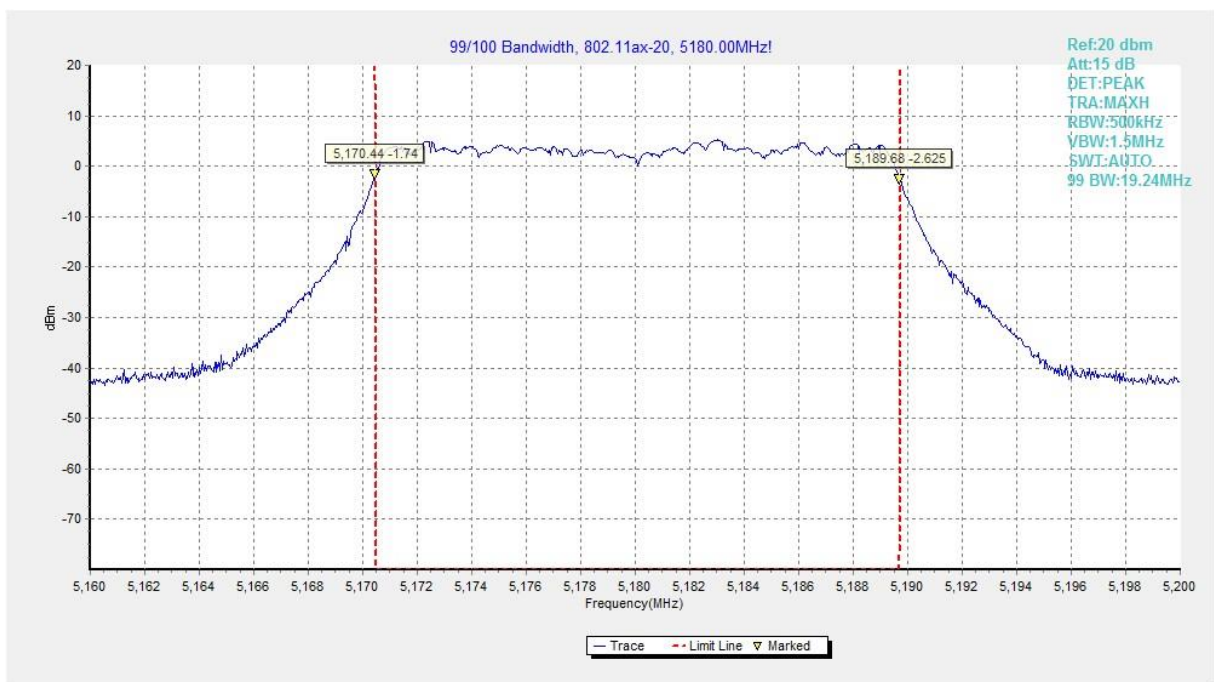


Fig.85 99% Occupied bandwidth (802.11ax-HE20, 5180MHz)

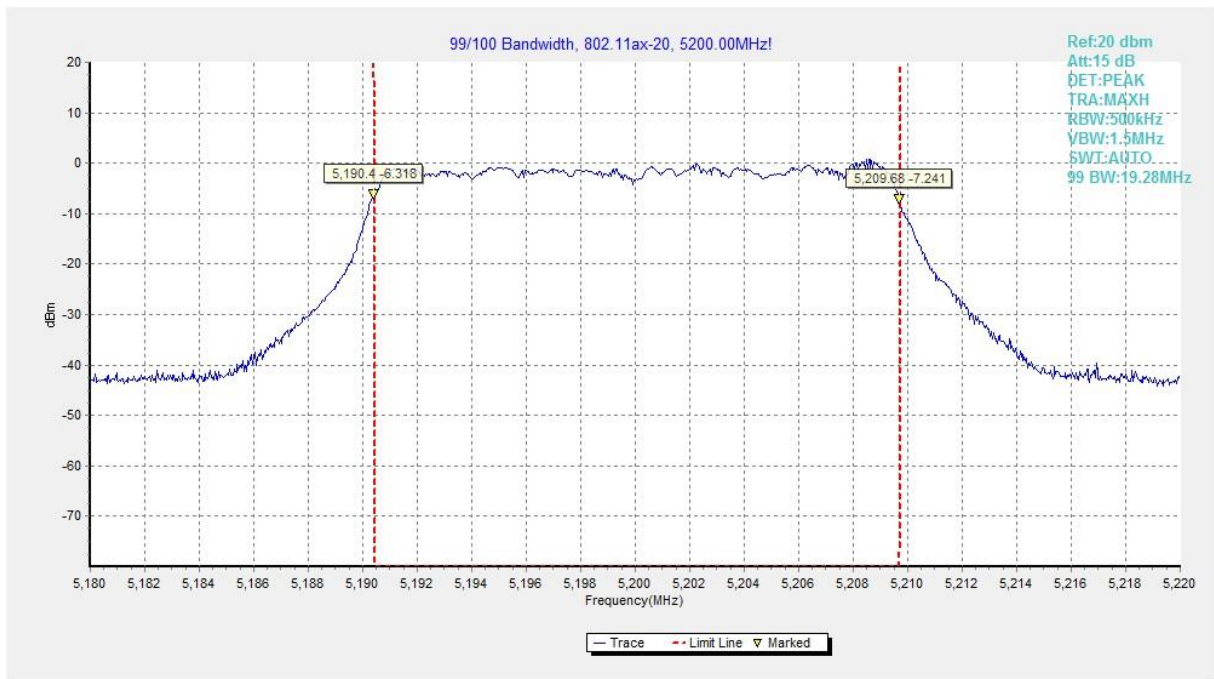


Fig.86 99% Occupied bandwidth (802.11ax-HE20, 5200MHz)



Fig.87 99% Occupied bandwidth (802.11ax-HE20, 5240MHz)

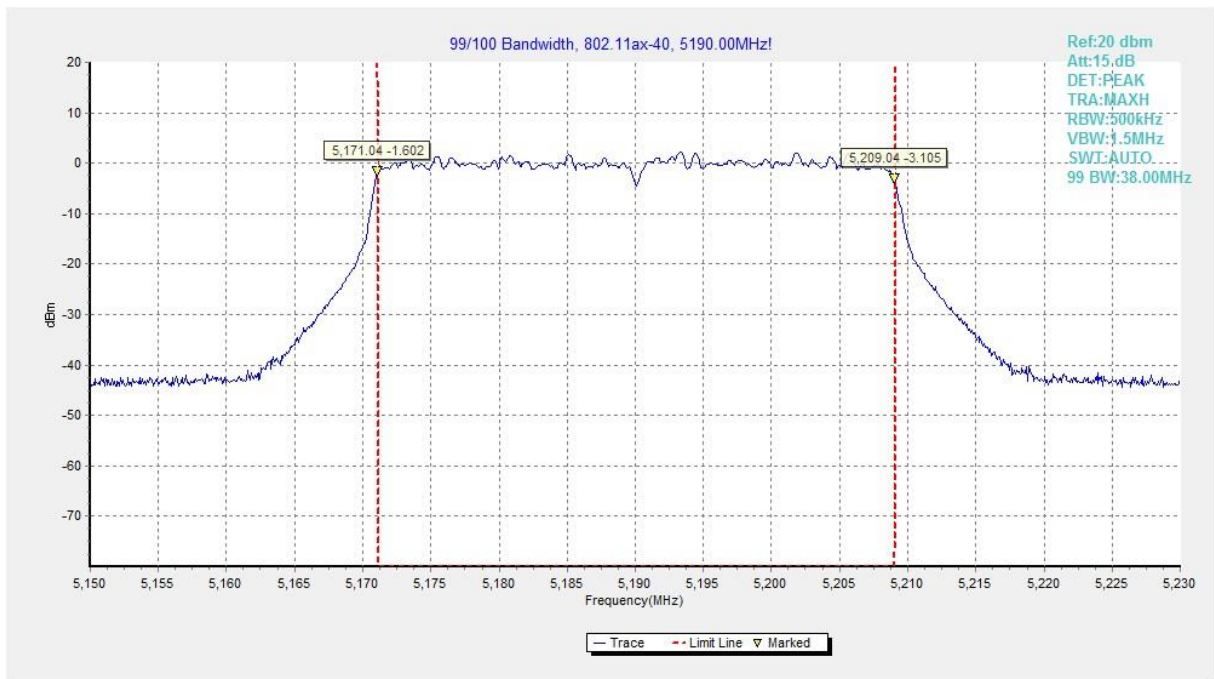


Fig.88 99% Occupied bandwidth (802.11ax-HE40, 5190MHz)

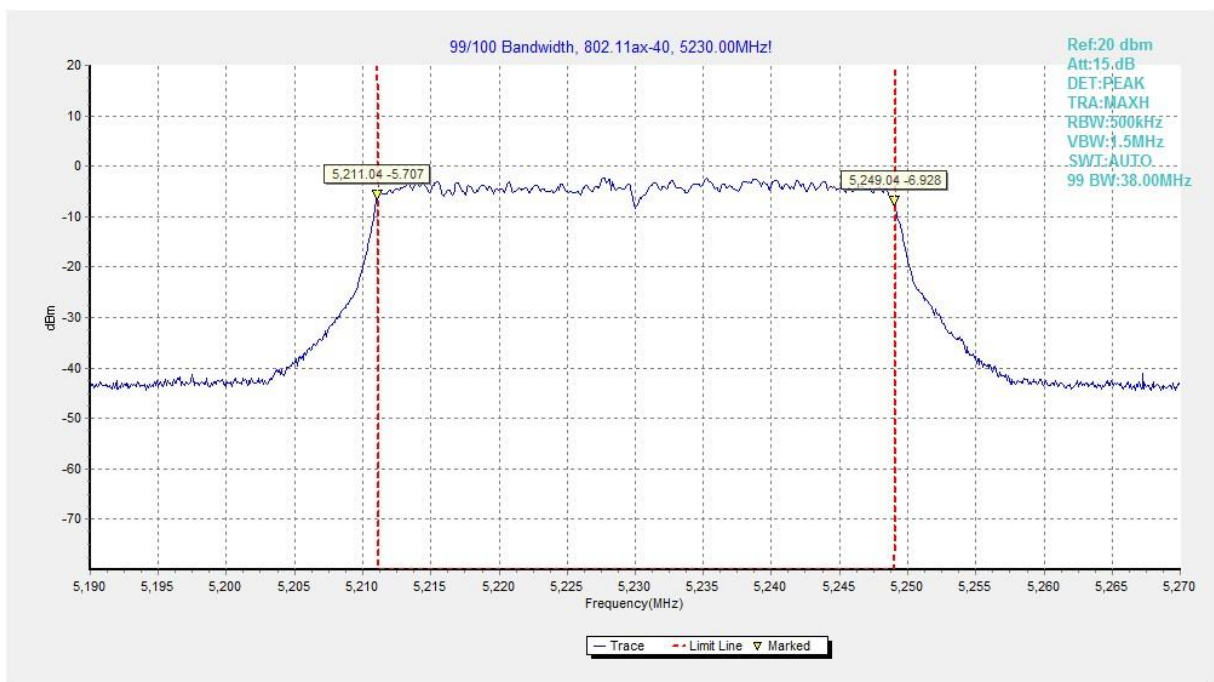


Fig.89 99% Occupied bandwidth (802.11ax-HE40, 5230MHz)

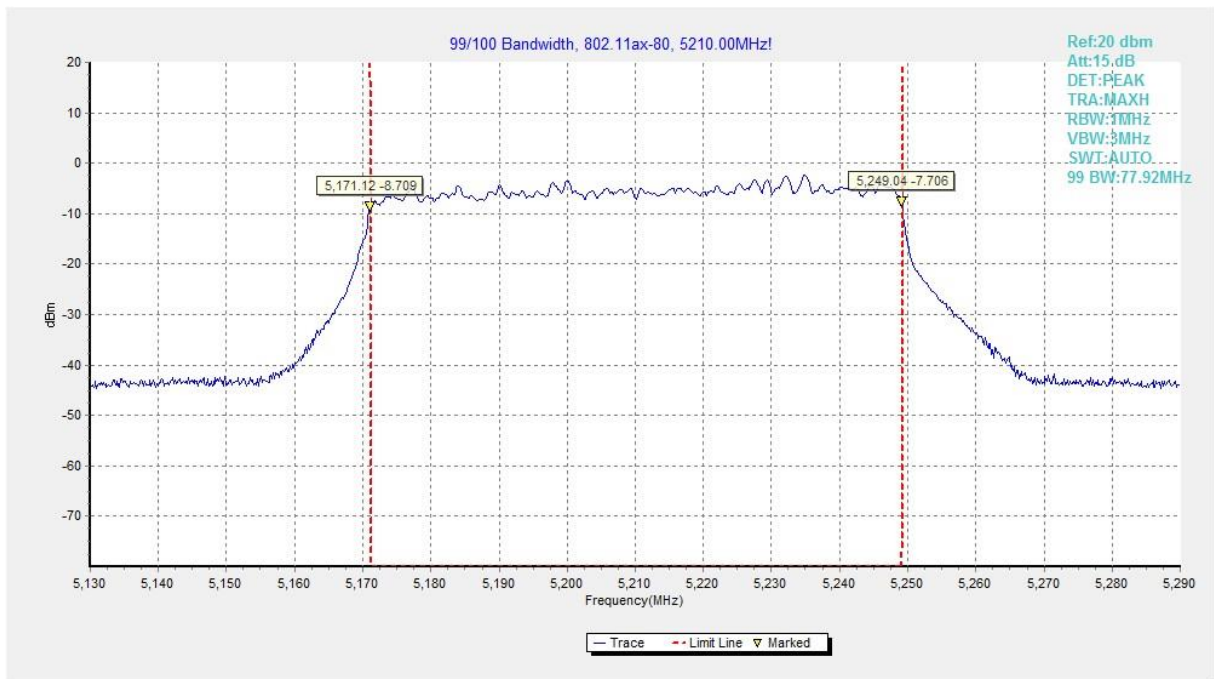


Fig.90 99% Occupied bandwidth (802.11ax-HE80, 5210MHz)

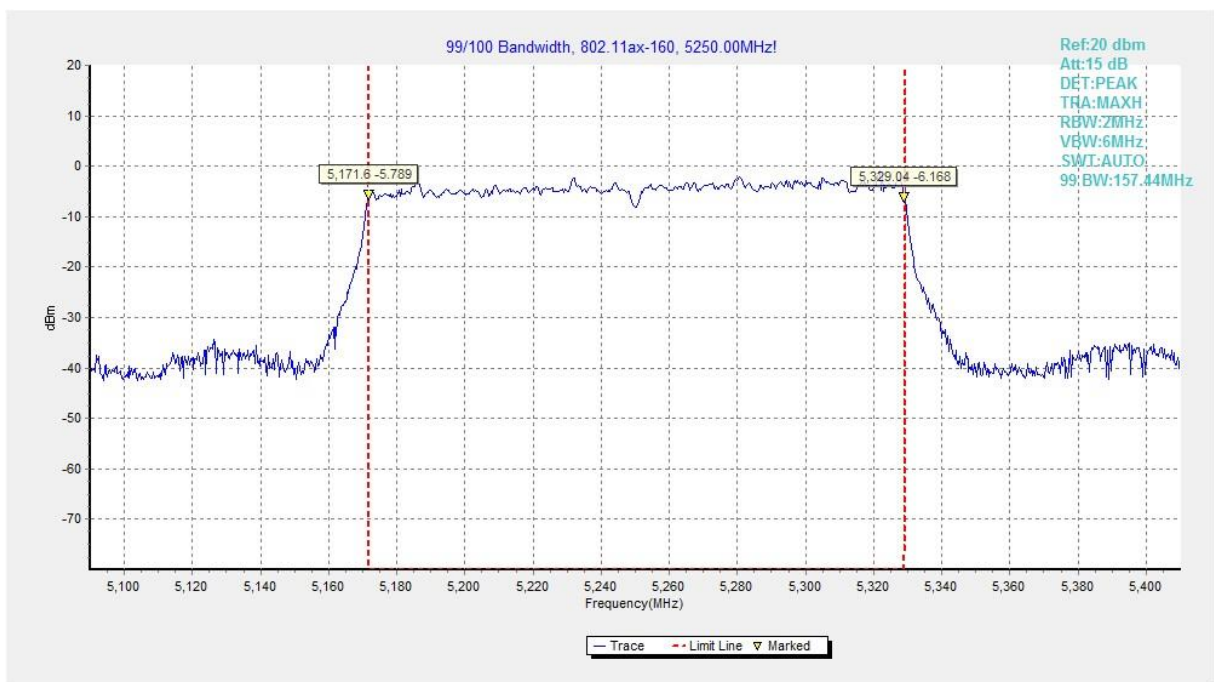


Fig.91 99% Occupied bandwidth (802.11ax-HE160, 5250MHz)

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



*** END OF REPORT BODY ***