

A.6 Radiated Emission

Note ¹: The symbol of “--” in the table which means not application.

Note ²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

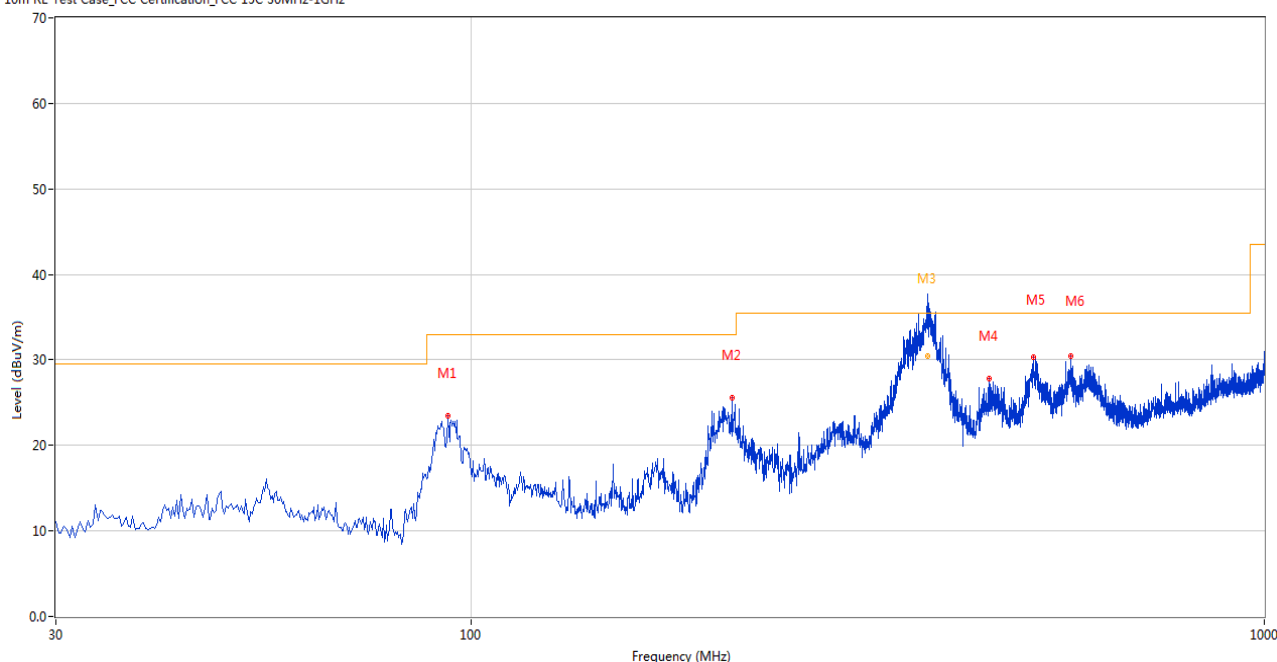
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

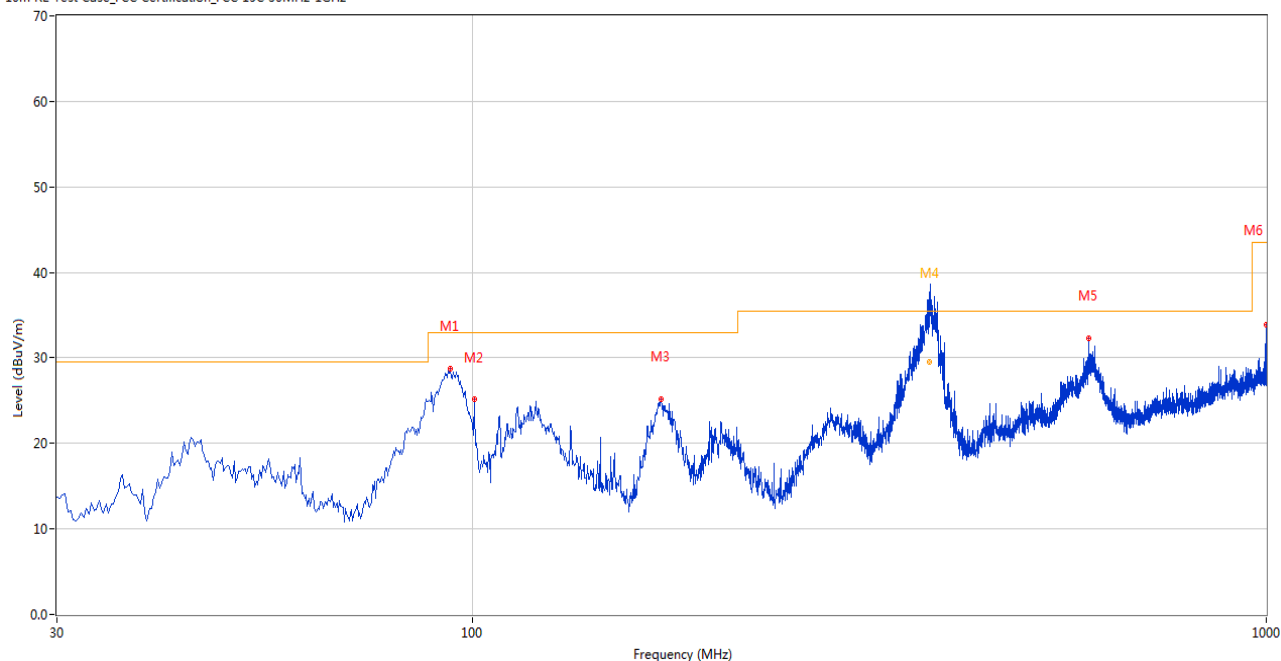
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	93.519	23.47	-31.58	33.0	9.53	Peak	145.00	200	Horizontal	Pass
2	213.284	25.54	-28.93	33.0	7.46	Peak	360.00	200	Horizontal	Pass
3	376.493	39.37	-22.80	35.5	-3.87	Peak	248.00	140	Horizontal	N/A
3*	376.493	30.44	-22.80	35.5	5.06	QP	248.00	140	Horizontal	Pass
4	450.632	27.77	-20.50	35.5	7.73	Peak	172.00	200	Horizontal	Pass
5	511.242	30.27	-19.52	35.5	5.23	Peak	188.00	200	Horizontal	Pass
6	571.125	30.45	-17.82	35.5	5.05	Peak	259.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	93.762	28.72	-31.58	33.0	4.28	Peak	340.00	100	Vertical	Pass
2	100.550	25.12	-30.44	33.0	7.88	Peak	0.00	100	Vertical	Pass
3	172.797	25.22	-26.31	33.0	7.78	Peak	264.00	100	Vertical	Pass
4	377.015	37.17	-22.82	35.5	-1.67	Peak	69.00	110	Vertical	N/A
4*	377.015	29.57	-22.82	35.5	5.93	QP	69.00	110	Vertical	Pass
5	598.520	32.33	-16.85	35.5	3.17	Peak	156.00	200	Vertical	Pass
6	998.545	33.84	-9.80	43.5	9.66	Peak	275.00	200	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: All antenna were tested, but only the worst case has been reported in this report.

SISO-Antenna 2

1 GHz to 18 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2092.600	48.52	-16.81	74.0	25.48	Peak	141.00	300	Horizontal	Pass
1**	2092.600	34.40	-16.81	54.0	19.60	AV	141.00	300	Horizontal	Pass
2	2411.900	102.66	-14.67	74.0	-28.66	Peak	126.00	150	Horizontal	N/A
2**	2411.900	99.04	-14.67	54.0	-45.04	AV	126.00	150	Horizontal	N/A
3	2974.900	49.08	-11.92	74.0	24.92	Peak	73.00	100	Horizontal	Pass
3**	2974.900	39.56	-11.92	54.0	14.44	AV	73.00	100	Horizontal	Pass
4	4824.250	48.82	-5.61	74.0	25.18	Peak	29.00	150	Horizontal	Pass
4**	4824.250	44.84	-5.61	54.0	9.16	AV	29.00	150	Horizontal	Pass
5	7494.750	53.37	-0.40	74.0	20.63	Peak	360.00	400	Horizontal	Pass
5**	7494.750	44.69	-0.40	54.0	9.31	AV	360.00	400	Horizontal	Pass
6	17560.001	48.10	6.37	74.0	25.90	Peak	65.00	300	Horizontal	Pass
6**	17560.001	40.09	6.37	54.0	13.91	AV	65.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2046.100	48.06	-16.51	74.0	25.94	Peak	68.00	300	Vertical	Pass
1**	2046.100	37.31	-16.51	54.0	16.69	AV	68.00	300	Vertical	Pass
2	2411.900	102.14	-14.67	74.0	-28.14	Peak	103.00	150	Vertical	N/A
2**	2411.900	98.41	-14.67	54.0	-44.41	AV	103.00	150	Vertical	N/A
3	2912.700	48.72	-11.87	74.0	25.28	Peak	145.00	100	Vertical	Pass
3**	2912.700	39.19	-11.87	54.0	14.81	AV	145.00	100	Vertical	Pass
4	4824.250	49.69	-5.61	74.0	24.31	Peak	204.00	150	Vertical	Pass
4**	4824.250	45.86	-5.61	54.0	8.14	AV	204.00	150	Vertical	Pass
5	7871.000	52.86	0.43	74.0	21.14	Peak	40.00	200	Vertical	Pass
5**	7871.000	44.33	0.43	54.0	9.67	AV	40.00	200	Vertical	Pass
6	17799.999	47.82	6.52	74.0	26.18	Peak	220.00	100	Vertical	Pass
6**	17799.999	41.25	6.52	54.0	12.75	AV	220.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2096.600	45.34	-16.68	74.0	28.66	Peak	150.00	200	Horizontal	Pass
1**	2096.600	34.21	-16.68	54.0	19.79	AV	150.00	200	Horizontal	Pass
2	2438.300	102.74	-13.99	74.0	-28.74	Peak	31.00	200	Horizontal	N/A
2**	2438.300	99.81	-13.99	54.0	-45.81	AV	31.00	200	Horizontal	N/A
3	2989.000	49.43	-12.36	74.0	24.57	Peak	330.00	150	Horizontal	Pass
3**	2989.000	39.65	-12.36	54.0	14.35	AV	330.00	150	Horizontal	Pass
4	4874.250	48.35	-6.10	74.0	25.65	Peak	343.00	300	Horizontal	Pass
4**	4874.250	44.17	-6.10	54.0	9.83	AV	343.00	300	Horizontal	Pass
5	7862.500	53.39	0.18	74.0	20.61	Peak	192.00	200	Horizontal	Pass
5**	7862.500	44.46	0.18	54.0	9.54	AV	192.00	200	Horizontal	Pass
6	17535.001	48.33	6.21	74.0	25.67	Peak	253.00	400	Horizontal	Pass
6**	17535.001	39.40	6.21	54.0	14.60	AV	253.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1999.200	48.35	-17.99	74.0	25.65	Peak	183.00	100	Vertical	Pass
1**	1999.200	35.85	-17.99	54.0	18.15	AV	183.00	100	Vertical	Pass
2	2436.900	101.84	-14.12	74.0	-27.84	Peak	108.00	100	Vertical	N/A
2**	2436.900	97.67	-14.12	54.0	-43.67	AV	108.00	100	Vertical	N/A
3	2926.000	48.87	-12.14	74.0	25.13	Peak	166.00	150	Vertical	Pass
3**	2926.000	39.97	-12.14	54.0	14.03	AV	166.00	150	Vertical	Pass
4	4874.250	49.94	-6.10	74.0	24.06	Peak	277.00	150	Vertical	Pass
4**	4874.250	45.89	-6.10	54.0	8.11	AV	277.00	150	Vertical	Pass
5	7860.750	53.55	0.06	74.0	20.45	Peak	208.00	400	Vertical	Pass
5**	7860.750	45.68	0.06	54.0	8.32	AV	208.00	400	Vertical	Pass
6	17792.500	47.57	6.30	74.0	26.43	Peak	323.00	200	Vertical	Pass
6**	17792.500	40.74	6.30	54.0	13.26	AV	323.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2095.400	45.58	-16.71	74.0	28.42	Peak	0.00	300	Horizontal	Pass
1**	2095.400	34.04	-16.71	54.0	19.96	AV	0.00	300	Horizontal	Pass
2	2463.400	102.39	-13.68	74.0	-28.39	Peak	39.00	100	Horizontal	N/A
2**	2463.400	99.41	-13.68	54.0	-45.41	AV	39.00	100	Horizontal	N/A
3	2792.000	49.57	-12.56	74.0	24.43	Peak	229.00	150	Horizontal	Pass
3**	2792.000	39.45	-12.56	54.0	14.55	AV	229.00	150	Horizontal	Pass
4	4924.000	48.32	-4.86	74.0	25.68	Peak	334.00	150	Horizontal	Pass
4**	4924.000	45.60	-4.86	54.0	8.40	AV	334.00	150	Horizontal	Pass
5	7860.250	53.31	0.02	74.0	20.69	Peak	71.00	100	Horizontal	Pass
5**	7860.250	44.97	0.02	54.0	9.03	AV	71.00	100	Horizontal	Pass
6	17785.000	49.15	6.07	74.0	24.85	Peak	104.00	400	Horizontal	Pass
6**	17785.000	41.78	6.07	54.0	12.22	AV	104.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2396.900	54.39	-14.63	74.0	19.61	Peak	279.00	150	Vertical	Pass
1**	2396.900	49.59	-14.63	54.0	4.41	AV	279.00	150	Vertical	Pass
2	2463.300	101.19	-13.69	74.0	-27.19	Peak	103.00	200	Vertical	N/A
2**	2463.300	98.25	-13.69	54.0	-44.25	AV	103.00	200	Vertical	N/A
3	2732.400	49.27	-11.62	74.0	24.73	Peak	215.00	150	Vertical	Pass
3**	2732.400	39.63	-11.62	54.0	14.37	AV	215.00	150	Vertical	Pass
4	4924.250	50.28	-4.84	74.0	23.72	Peak	291.00	300	Vertical	Pass
4**	4924.250	47.79	-4.84	54.0	6.21	AV	291.00	300	Vertical	Pass
5	7862.000	53.07	0.14	74.0	20.93	Peak	360.00	300	Vertical	Pass
5**	7862.000	44.87	0.14	54.0	9.13	AV	360.00	300	Vertical	Pass
6	17812.500	47.94	6.19	74.0	26.06	Peak	84.00	300	Vertical	Pass
6**	17812.500	40.85	6.19	54.0	13.15	AV	84.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2019.900	44.07	-16.76	74.0	29.93	Peak	118.00	200	Horizontal	Pass
1**	2019.900	34.11	-16.76	54.0	19.89	AV	118.00	200	Horizontal	Pass
2	2407.900	103.91	-14.73	74.0	-29.91	Peak	129.00	200	Horizontal	N/A
2**	2407.900	97.30	-14.73	54.0	-43.30	AV	129.00	200	Horizontal	N/A
3	2988.500	48.55	-12.37	74.0	25.45	Peak	327.00	100	Horizontal	Pass
3**	2988.500	39.18	-12.37	54.0	14.82	AV	327.00	100	Horizontal	Pass
4	4962.250	48.66	-3.95	74.0	25.34	Peak	165.00	200	Horizontal	Pass
4**	4962.250	39.89	-3.95	54.0	14.11	AV	165.00	200	Horizontal	Pass
5	7897.000	53.10	0.01	74.0	20.90	Peak	217.00	400	Horizontal	Pass
5**	7897.000	44.23	0.01	54.0	9.77	AV	217.00	400	Horizontal	Pass
6	17554.999	48.10	6.44	74.0	25.90	Peak	133.00	400	Horizontal	Pass
6**	17554.999	39.90	6.44	54.0	14.10	AV	133.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1992.300	47.14	-18.13	74.0	26.86	Peak	73.00	100	Vertical	Pass
1**	1992.300	35.05	-18.13	54.0	18.95	AV	73.00	100	Vertical	Pass
2	2405.300	104.70	-14.76	74.0	-30.70	Peak	109.00	100	Vertical	N/A
2**	2405.300	97.20	-14.76	54.0	-43.20	AV	109.00	100	Vertical	N/A
3	2794.500	48.46	-12.54	74.0	25.54	Peak	172.00	100	Vertical	Pass
3**	2794.500	38.92	-12.54	54.0	15.08	AV	172.00	100	Vertical	Pass
4	4826.250	47.13	-5.66	74.0	26.87	Peak	338.00	150	Vertical	Pass
4**	4826.250	42.52	-5.66	54.0	11.48	AV	338.00	150	Vertical	Pass
5	7859.750	53.88	-0.01	74.0	20.12	Peak	302.00	200	Vertical	Pass
5**	7859.750	44.73	-0.01	54.0	9.27	AV	302.00	200	Vertical	Pass
6	17817.500	47.44	6.05	74.0	26.56	Peak	309.00	400	Vertical	Pass
6**	17817.500	40.06	6.05	54.0	13.94	AV	309.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2090.800	46.60	-16.85	74.0	27.40	Peak	143.00	200	Horizontal	Pass
1**	2090.800	34.62	-16.85	54.0	19.38	AV	143.00	200	Horizontal	Pass
2	2443.800	103.91	-13.45	74.0	-29.91	Peak	35.00	100	Horizontal	N/A
2**	2443.800	96.49	-13.45	54.0	-42.49	AV	35.00	100	Horizontal	N/A
3	2920.500	48.90	-11.86	74.0	25.10	Peak	109.00	200	Horizontal	Pass
3**	2920.500	39.22	-11.86	54.0	14.78	AV	109.00	200	Horizontal	Pass
4	4959.500	49.30	-3.82	74.0	24.70	Peak	243.00	400	Horizontal	Pass
4**	4959.500	39.88	-3.82	54.0	14.12	AV	243.00	400	Horizontal	Pass
5	7805.500	53.21	0.12	74.0	20.79	Peak	44.00	200	Horizontal	Pass
5**	7805.500	44.70	0.12	54.0	9.30	AV	44.00	200	Horizontal	Pass
6	17789.999	48.00	6.22	74.0	26.00	Peak	105.00	300	Horizontal	Pass
6**	17789.999	40.28	6.22	54.0	13.72	AV	105.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1999.900	48.15	-17.95	74.0	25.85	Peak	71.00	400	Vertical	Pass
1**	1999.900	39.06	-17.95	54.0	14.94	AV	71.00	400	Vertical	Pass
2	2442.800	104.00	-13.57	74.0	-30.00	Peak	107.00	100	Vertical	N/A
2**	2442.800	97.41	-13.57	54.0	-43.41	AV	107.00	100	Vertical	N/A
3	2599.000	47.07	-12.14	74.0	26.93	Peak	280.00	150	Vertical	Pass
3**	2599.000	47.31	-12.14	54.0	6.69	AV	280.00	150	Vertical	Pass
4	4874.250	46.97	-6.10	74.0	27.03	Peak	215.00	150	Vertical	Pass
4**	4874.250	41.61	-6.10	54.0	12.39	AV	215.00	150	Vertical	Pass
5	7874.000	53.82	0.45	74.0	20.18	Peak	277.00	200	Vertical	Pass
5**	7874.000	44.24	0.45	54.0	9.76	AV	277.00	200	Vertical	Pass
6	17787.501	48.59	6.15	74.0	25.41	Peak	196.00	100	Vertical	Pass
6**	17787.501	41.13	6.15	54.0	12.87	AV	196.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1996.200	44.40	-18.06	74.0	29.60	Peak	69.00	400	Horizontal	Pass
1**	1996.200	34.84	-18.06	54.0	19.16	AV	69.00	400	Horizontal	Pass
2	2468.200	104.40	-13.68	74.0	-30.40	Peak	304.00	100	Horizontal	N/A
2**	2468.200	96.91	-13.68	54.0	-42.91	AV	304.00	100	Horizontal	N/A
3	2785.500	48.80	-12.82	74.0	25.20	Peak	262.00	100	Horizontal	Pass
3**	2785.500	39.50	-12.82	54.0	14.50	AV	262.00	100	Horizontal	Pass
4	4962.750	48.39	-3.97	74.0	25.61	Peak	92.00	300	Horizontal	Pass
4**	4962.750	40.00	-3.97	54.0	14.00	AV	92.00	300	Horizontal	Pass
5	7542.000	53.62	-0.25	74.0	20.38	Peak	126.00	100	Horizontal	Pass
5**	7542.000	44.25	-0.25	54.0	9.75	AV	126.00	100	Horizontal	Pass
6	17782.499	48.80	6.00	74.0	25.20	Peak	130.00	100	Horizontal	Pass
6**	17782.499	40.56	6.00	54.0	13.44	AV	130.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2100.300	50.35	-16.42	74.0	23.65	Peak	70.00	150	Vertical	Pass
1**	2100.300	34.83	-16.42	54.0	19.17	AV	70.00	150	Vertical	Pass
2	2455.600	104.00	-13.41	74.0	-30.00	Peak	102.00	200	Vertical	N/A
2**	2455.600	96.80	-13.41	54.0	-42.80	AV	102.00	200	Vertical	N/A
3	2789.700	49.61	-12.63	74.0	24.39	Peak	239.00	200	Vertical	Pass
3**	2789.700	39.76	-12.63	54.0	14.24	AV	239.00	200	Vertical	Pass
4	4926.250	45.43	-4.77	74.0	28.57	Peak	285.00	150	Vertical	Pass
4**	4926.250	41.96	-4.77	54.0	12.04	AV	285.00	150	Vertical	Pass
5	7867.000	53.55	0.34	74.0	20.45	Peak	214.00	100	Vertical	Pass
5**	7867.000	44.28	0.34	54.0	9.72	AV	214.00	100	Vertical	Pass
6	17550.000	49.37	6.50	74.0	24.63	Peak	101.00	300	Vertical	Pass
6**	17550.000	40.69	6.50	54.0	13.31	AV	101.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1993.600	45.43	-18.10	74.0	28.57	Peak	84.00	300	Horizontal	Pass
1**	1993.600	34.93	-18.10	54.0	19.07	AV	84.00	300	Horizontal	Pass
2	2407.400	103.30	-14.73	74.0	-29.30	Peak	130.00	100	Horizontal	N/A
2**	2407.400	95.94	-14.73	54.0	-41.94	AV	130.00	100	Horizontal	N/A
3	2742.000	48.29	-12.52	74.0	25.71	Peak	64.00	100	Horizontal	Pass
3**	2742.000	39.19	-12.52	54.0	14.81	AV	64.00	100	Horizontal	Pass
4	4813.500	48.91	-5.13	74.0	25.09	Peak	295.00	400	Horizontal	Pass
4**	4813.500	39.87	-5.13	54.0	14.13	AV	295.00	400	Horizontal	Pass
5	7897.250	55.05	0.02	74.0	18.95	Peak	243.00	100	Horizontal	Pass
5**	7897.250	44.15	0.02	54.0	9.85	AV	243.00	100	Horizontal	Pass
6	17780.001	48.64	5.92	74.0	25.36	Peak	0.00	400	Horizontal	Pass
6**	17780.001	40.26	5.92	54.0	13.74	AV	0.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2095.400	49.84	-16.71	74.0	24.16	Peak	184.00	300	Vertical	Pass
1**	2095.400	40.74	-16.71	54.0	13.26	AV	184.00	300	Vertical	Pass
2	2407.600	103.27	-14.73	74.0	-29.27	Peak	100.00	150	Vertical	N/A
2**	2407.600	95.59	-14.73	54.0	-41.59	AV	100.00	150	Vertical	N/A
3	2792.700	49.23	-12.55	74.0	24.77	Peak	205.00	100	Vertical	Pass
3**	2792.700	39.60	-12.55	54.0	14.40	AV	205.00	100	Vertical	Pass
4	3997.500	49.07	-7.76	74.0	24.93	Peak	48.00	400	Vertical	Pass
4**	3997.500	36.63	-7.76	54.0	17.37	AV	48.00	400	Vertical	Pass
5	7608.250	53.68	-0.91	74.0	20.32	Peak	360.00	400	Vertical	Pass
5**	7608.250	42.99	-0.91	54.0	11.01	AV	360.00	400	Vertical	Pass
6	17592.500	47.70	5.95	74.0	26.30	Peak	2.00	400	Vertical	Pass
6**	17592.500	39.57	5.95	54.0	14.43	AV	2.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2097.000	45.65	-16.67	74.0	28.35	Peak	247.00	200	Horizontal	Pass
1**	2097.000	34.71	-16.67	54.0	19.29	AV	247.00	200	Horizontal	Pass
2	2441.100	104.01	-13.75	74.0	-30.01	Peak	120.00	100	Horizontal	N/A
2**	2441.100	96.20	-13.75	54.0	-42.20	AV	120.00	100	Horizontal	N/A
3	2868.100	48.63	-12.41	74.0	25.37	Peak	222.00	150	Horizontal	Pass
3**	2868.100	38.80	-12.41	54.0	15.20	AV	222.00	150	Horizontal	Pass
4	4960.000	48.95	-3.84	74.0	25.05	Peak	262.00	300	Horizontal	Pass
4**	4960.000	40.08	-3.84	54.0	13.92	AV	262.00	300	Horizontal	Pass
5	7874.500	53.51	0.46	74.0	20.49	Peak	360.00	400	Horizontal	Pass
5**	7874.500	44.36	0.46	54.0	9.64	AV	360.00	400	Horizontal	Pass
6	17799.999	48.27	6.52	74.0	25.73	Peak	223.00	100	Horizontal	Pass
6**	17799.999	40.90	6.52	54.0	13.10	AV	223.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1999.800	48.27	-17.96	74.0	25.73	Peak	297.00	200	Vertical	Pass
1**	1999.800	35.49	-17.96	54.0	18.51	AV	297.00	200	Vertical	Pass
2	2444.100	104.00	-13.43	74.0	-30.00	Peak	112.00	200	Vertical	N/A
2**	2444.100	96.72	-13.43	54.0	-42.72	AV	112.00	200	Vertical	N/A
3	2956.800	48.93	-12.43	74.0	25.07	Peak	193.00	100	Vertical	Pass
3**	2956.800	39.51	-12.43	54.0	14.49	AV	193.00	100	Vertical	Pass
4	3994.000	47.68	-7.71	74.0	26.32	Peak	171.00	150	Vertical	Pass
4**	3994.000	36.21	-7.71	54.0	17.79	AV	171.00	150	Vertical	Pass
5	7862.000	53.46	0.14	74.0	20.54	Peak	83.00	100	Vertical	Pass
5**	7862.000	44.67	0.14	54.0	9.33	AV	83.00	100	Vertical	Pass
6	17557.500	47.76	6.40	74.0	26.24	Peak	65.00	400	Vertical	Pass
6**	17557.500	39.20	6.40	54.0	14.80	AV	65.00	400	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2093.100	48.53	-16.80	74.0	25.47	Peak	0.00	300	Horizontal	Pass
1**	2093.100	34.87	-16.80	54.0	19.13	AV	0.00	300	Horizontal	Pass
2	2455.100	104.49	-13.38	74.0	-30.49	Peak	130.00	100	Horizontal	N/A
2**	2455.100	96.48	-13.38	54.0	-42.48	AV	130.00	100	Horizontal	N/A
3	2922.400	49.50	-11.93	74.0	24.50	Peak	309.00	200	Horizontal	Pass
3**	2922.400	39.23	-11.93	54.0	14.77	AV	309.00	200	Horizontal	Pass
4	4990.250	48.94	-4.14	74.0	25.06	Peak	223.00	100	Horizontal	Pass
4**	4990.250	39.61	-4.14	54.0	14.39	AV	223.00	100	Horizontal	Pass
5	7861.250	53.82	0.09	74.0	20.18	Peak	292.00	400	Horizontal	Pass
5**	7861.250	45.73	0.09	54.0	8.27	AV	292.00	400	Horizontal	Pass
6	17817.500	48.06	6.05	74.0	25.94	Peak	198.00	300	Horizontal	Pass
6**	17817.500	39.95	6.05	54.0	14.05	AV	198.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2093.000	48.25	-16.80	74.0	25.75	Peak	247.00	300	Vertical	Pass
1**	2093.000	35.75	-16.80	54.0	18.25	AV	247.00	300	Vertical	Pass
2	2456.300	103.70	-13.45	74.0	-29.70	Peak	102.00	200	Vertical	N/A
2**	2456.300	96.85	-13.45	54.0	-42.85	AV	102.00	200	Vertical	N/A
3	2796.400	49.23	-12.70	74.0	24.77	Peak	172.00	100	Vertical	Pass
3**	2796.400	39.18	-12.70	54.0	14.82	AV	172.00	100	Vertical	Pass
4	4785.250	49.49	-5.29	74.0	24.51	Peak	183.00	300	Vertical	Pass
4**	4785.250	39.32	-5.29	54.0	14.68	AV	183.00	300	Vertical	Pass
5	7862.750	53.41	0.18	74.0	20.59	Peak	31.00	300	Vertical	Pass
5**	7862.750	45.34	0.18	54.0	8.66	AV	31.00	300	Vertical	Pass
6	17785.000	47.89	6.07	74.0	26.11	Peak	311.00	100	Vertical	Pass
6**	17785.000	41.24	6.07	54.0	12.76	AV	311.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1993.600	45.69	-18.10	74.0	28.31	Peak	319.00	200	Horizontal	Pass
1**	1993.600	37.81	-18.10	54.0	16.19	AV	319.00	200	Horizontal	Pass
2	2410.400	100.98	-14.71	74.0	-26.98	Peak	120.00	150	Horizontal	N/A
2**	2410.400	93.27	-14.71	54.0	-39.27	AV	120.00	150	Horizontal	N/A
3	2917.600	48.88	-11.77	74.0	25.12	Peak	68.00	200	Horizontal	Pass
3**	2917.600	39.70	-11.77	54.0	14.30	AV	68.00	200	Horizontal	Pass
4	4977.750	48.48	-4.12	74.0	25.52	Peak	95.00	100	Horizontal	Pass
4**	4977.750	39.90	-4.12	54.0	14.10	AV	95.00	100	Horizontal	Pass
5	7860.250	53.47	0.02	74.0	20.53	Peak	296.00	400	Horizontal	Pass
5**	7860.250	44.74	0.02	54.0	9.26	AV	296.00	400	Horizontal	Pass
6	17545.001	48.35	6.40	74.0	25.65	Peak	10.00	300	Horizontal	Pass
6**	17545.001	40.01	6.40	54.0	13.99	AV	10.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2093.500	50.69	-16.78	74.0	23.31	Peak	251.00	400	Vertical	Pass
1**	2093.500	35.88	-16.78	54.0	18.12	AV	251.00	400	Vertical	Pass
2	2435.600	100.39	-14.27	74.0	-26.39	Peak	114.00	100	Vertical	N/A
2**	2435.600	92.10	-14.27	54.0	-38.10	AV	114.00	100	Vertical	N/A
3	2793.100	48.72	-12.55	74.0	25.28	Peak	134.00	100	Vertical	Pass
3**	2793.100	38.94	-12.55	54.0	15.06	AV	134.00	100	Vertical	Pass
4	4955.750	49.49	-3.63	74.0	24.51	Peak	120.00	200	Vertical	Pass
4**	4955.750	39.44	-3.63	54.0	14.56	AV	120.00	200	Vertical	Pass
5	7821.500	54.30	0.08	74.0	19.70	Peak	294.00	300	Vertical	Pass
5**	7821.500	44.61	0.08	54.0	9.39	AV	294.00	300	Vertical	Pass
6	17529.999	47.94	6.12	74.0	26.06	Peak	0.00	100	Vertical	Pass
6**	17529.999	39.71	6.12	54.0	14.29	AV	0.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1996.100	45.47	-18.05	74.0	28.53	Peak	149.00	200	Horizontal	Pass
1**	1996.100	33.44	-18.05	54.0	20.56	AV	149.00	200	Horizontal	Pass
2	2452.500	101.27	-13.30	74.0	-27.27	Peak	128.00	200	Horizontal	N/A
2**	2452.500	93.89	-13.30	54.0	-39.89	AV	128.00	200	Horizontal	N/A
3	2908.400	48.70	-11.97	74.0	25.30	Peak	183.00	100	Horizontal	Pass
3**	2908.400	40.21	-11.97	54.0	13.79	AV	183.00	100	Horizontal	Pass
4	4987.500	48.55	-4.20	74.0	25.45	Peak	256.00	400	Horizontal	Pass
4**	4987.500	39.09	-4.20	54.0	14.91	AV	256.00	400	Horizontal	Pass
5	7494.000	53.83	-0.41	74.0	20.17	Peak	2.00	200	Horizontal	Pass
5**	7494.000	44.75	-0.41	54.0	9.25	AV	2.00	200	Horizontal	Pass
6	17762.501	47.87	5.40	74.0	26.13	Peak	286.00	100	Horizontal	Pass
6**	17762.501	38.99	5.40	54.0	15.01	AV	286.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2196.400	50.77	-15.17	74.0	23.23	Peak	313.00	150	Vertical	Pass
1**	2196.400	38.46	-15.17	54.0	15.54	AV	313.00	150	Vertical	Pass
2	2439.700	100.98	-13.89	74.0	-26.98	Peak	100.00	100	Vertical	N/A
2**	2439.700	92.99	-13.89	54.0	-38.99	AV	100.00	100	Vertical	N/A
3	2797.400	48.98	-12.72	74.0	25.02	Peak	128.00	200	Vertical	Pass
3**	2797.400	40.33	-12.72	54.0	13.67	AV	128.00	200	Vertical	Pass
4	4786.000	48.84	-5.26	74.0	25.16	Peak	248.00	100	Vertical	Pass
4**	4786.000	38.69	-5.26	54.0	15.31	AV	248.00	100	Vertical	Pass
5	7864.750	54.25	0.20	74.0	19.75	Peak	306.00	400	Vertical	Pass
5**	7864.750	45.07	0.20	54.0	8.93	AV	306.00	400	Vertical	Pass
6	17795.000	47.51	6.37	74.0	26.49	Peak	143.00	200	Vertical	Pass
6**	17795.000	40.79	6.37	54.0	13.21	AV	143.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2096.100	46.50	-16.69	74.0	27.50	Peak	131.00	100	Horizontal	Pass
1**	2096.100	38.07	-16.69	54.0	15.93	AV	131.00	100	Horizontal	Pass
2	2448.900	101.66	-13.20	74.0	-27.66	Peak	126.00	150	Horizontal	N/A
2**	2448.900	93.99	-13.20	54.0	-39.99	AV	126.00	150	Horizontal	N/A
3	2733.600	48.78	-11.71	74.0	25.22	Peak	99.00	150	Horizontal	Pass
3**	2733.600	40.48	-11.71	54.0	13.52	AV	99.00	150	Horizontal	Pass
4	4990.250	48.63	-4.14	74.0	25.37	Peak	1.00	300	Horizontal	Pass
4**	4990.250	40.02	-4.14	54.0	13.98	AV	1.00	300	Horizontal	Pass
5	7790.500	53.55	-0.59	74.0	20.45	Peak	1.00	200	Horizontal	Pass
5**	7790.500	43.94	-0.59	54.0	10.06	AV	1.00	200	Horizontal	Pass
6	17999.999	47.82	5.45	74.0	26.18	Peak	147.00	150	Horizontal	Pass
6**	17999.999	39.44	5.45	54.0	14.56	AV	147.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2093.400	49.93	-16.79	74.0	24.07	Peak	221.00	200	Vertical	Pass
1**	2093.400	35.39	-16.79	54.0	18.61	AV	221.00	200	Vertical	Pass
2	2448.800	100.99	-13.21	74.0	-26.99	Peak	112.00	150	Vertical	N/A
2**	2448.800	93.48	-13.21	54.0	-39.48	AV	112.00	150	Vertical	N/A
3	2598.200	54.12	-12.17	74.0	19.88	Peak	143.00	150	Vertical	Pass
3**	2598.200	40.50	-12.17	54.0	13.50	AV	143.00	150	Vertical	Pass
4	4783.000	50.13	-5.27	74.0	23.87	Peak	177.00	200	Vertical	Pass
4**	4783.000	38.87	-5.27	54.0	15.13	AV	177.00	200	Vertical	Pass
5	7811.250	53.86	0.29	74.0	20.14	Peak	0.00	100	Vertical	Pass
5**	7811.250	44.13	0.29	54.0	9.87	AV	0.00	100	Vertical	Pass
6	17814.999	48.35	6.12	74.0	25.65	Peak	24.00	300	Vertical	Pass
6**	17814.999	40.07	6.12	54.0	13.93	AV	24.00	300	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

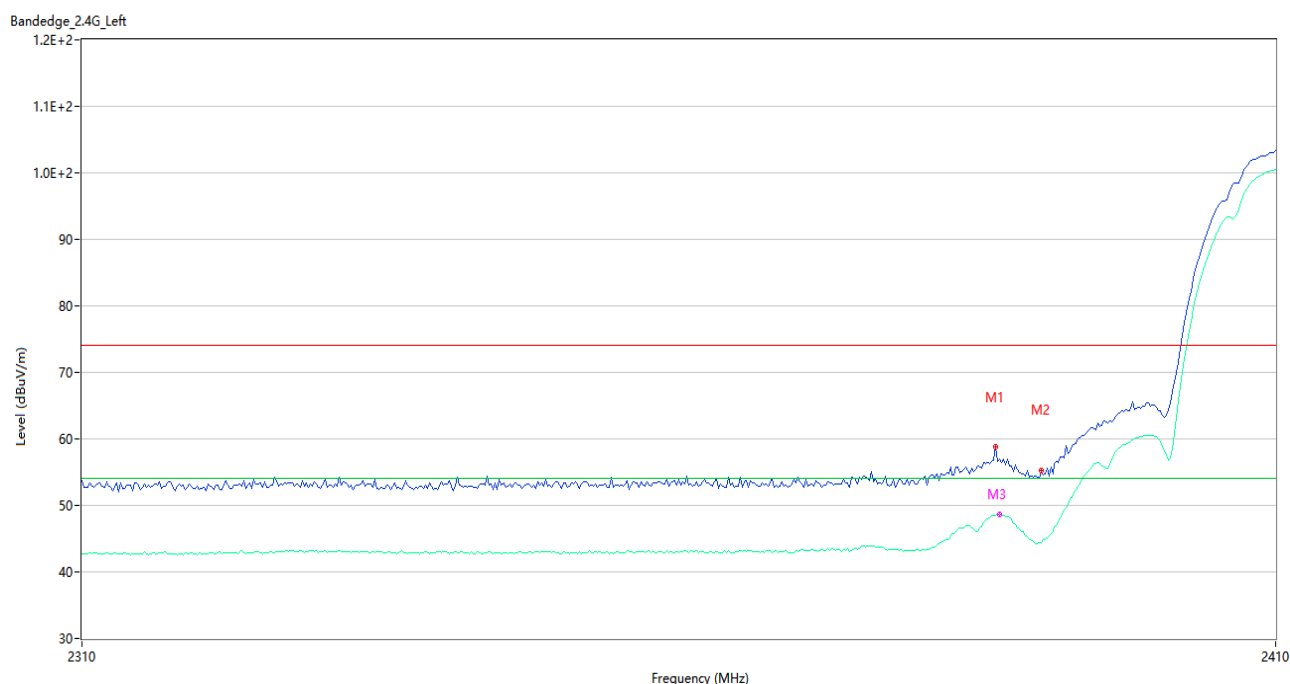
Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: All antenna were tested, but only the worst case has been reported in this report.

Test Data and Plots

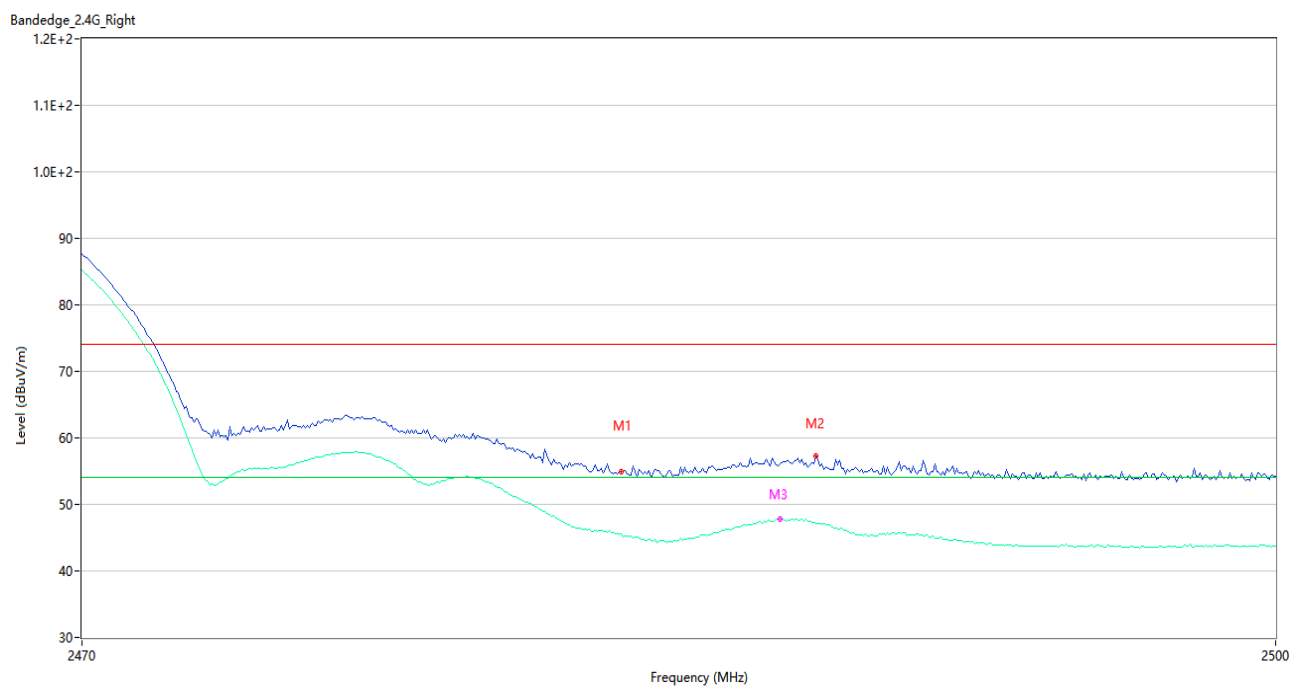
SISO-Antenna 2

802.11b LOW CHANNEL



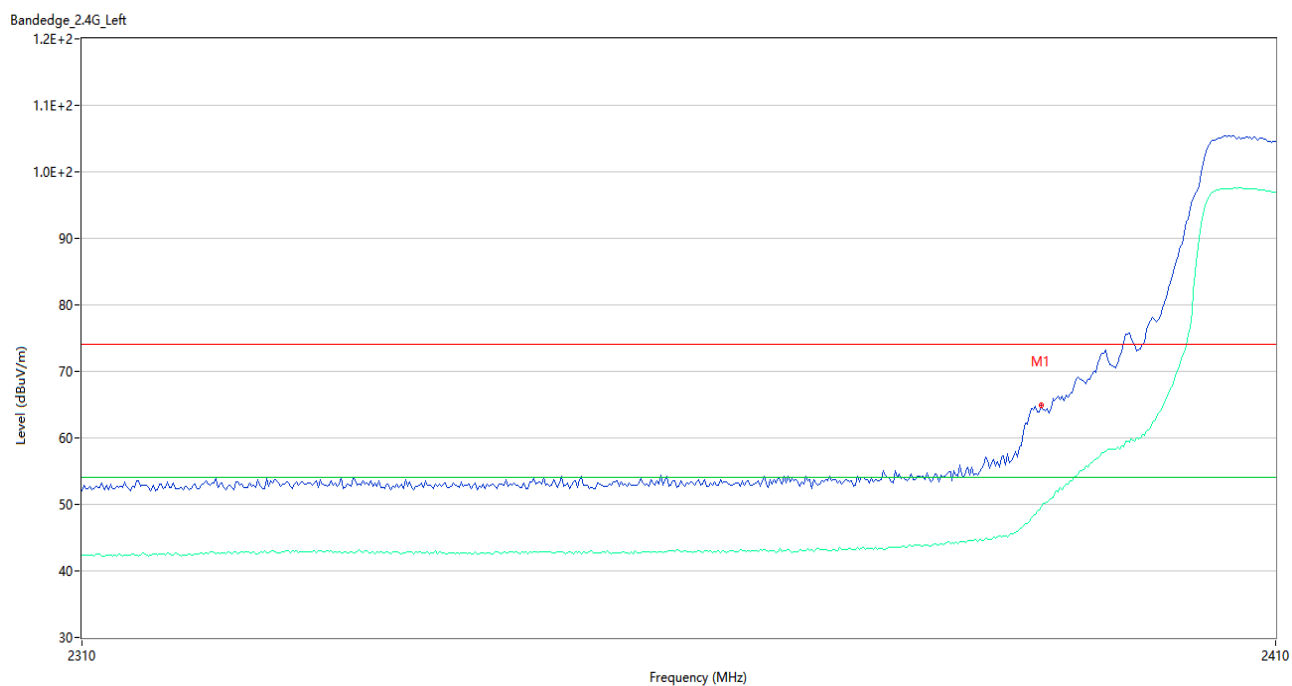
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.167	58.81	-2.21	74.0	15.19	Peak	104.00	100	Horizontal	Pass
1**	2386.167	48.56	-2.21	54.0	5.44	AV	104.00	100	Horizontal	Pass
2	2390.000	55.22	-2.35	74.0	18.78	Peak	98.00	200	Horizontal	Pass
2**	2390.000	44.35	-2.35	54.0	9.65	AV	98.00	200	Horizontal	Pass
3	2386.500	56.89	-2.21	74.0	17.11	Peak	104.00	150	Horizontal	Pass
3**	2386.500	48.66	-2.21	54.0	5.34	AV	104.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



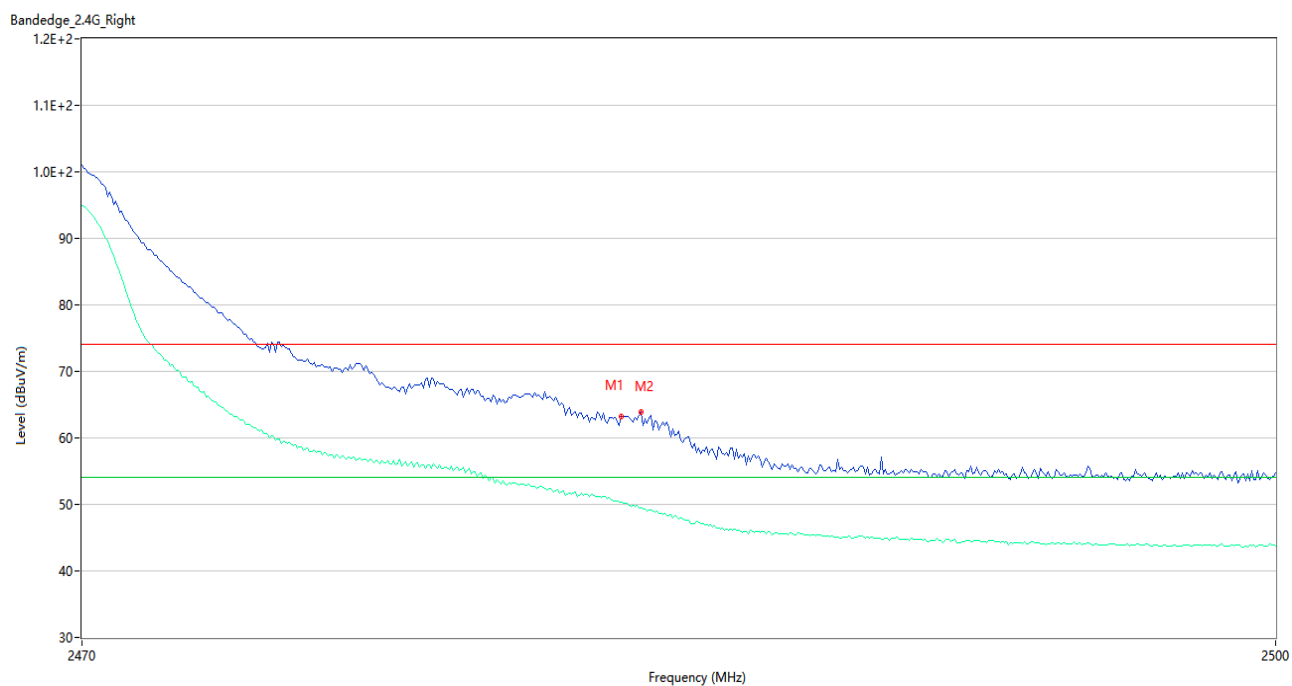
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.85	-0.86	74.0	19.15	Peak	260.00	150	Horizontal	Pass
1**	2483.500	45.53	-0.86	54.0	8.47	AV	260.00	150	Horizontal	Pass
2	2488.400	57.23	-0.78	74.0	16.77	Peak	99.00	150	Horizontal	Pass
2**	2488.400	47.19	-0.78	54.0	6.81	AV	99.00	150	Horizontal	Pass
3	2487.500	56.08	-0.80	74.0	17.92	Peak	260.00	150	Horizontal	Pass
3**	2487.500	47.81	-0.80	54.0	6.19	AV	260.00	150	Horizontal	Pass

802.11g LOW CHANNEL



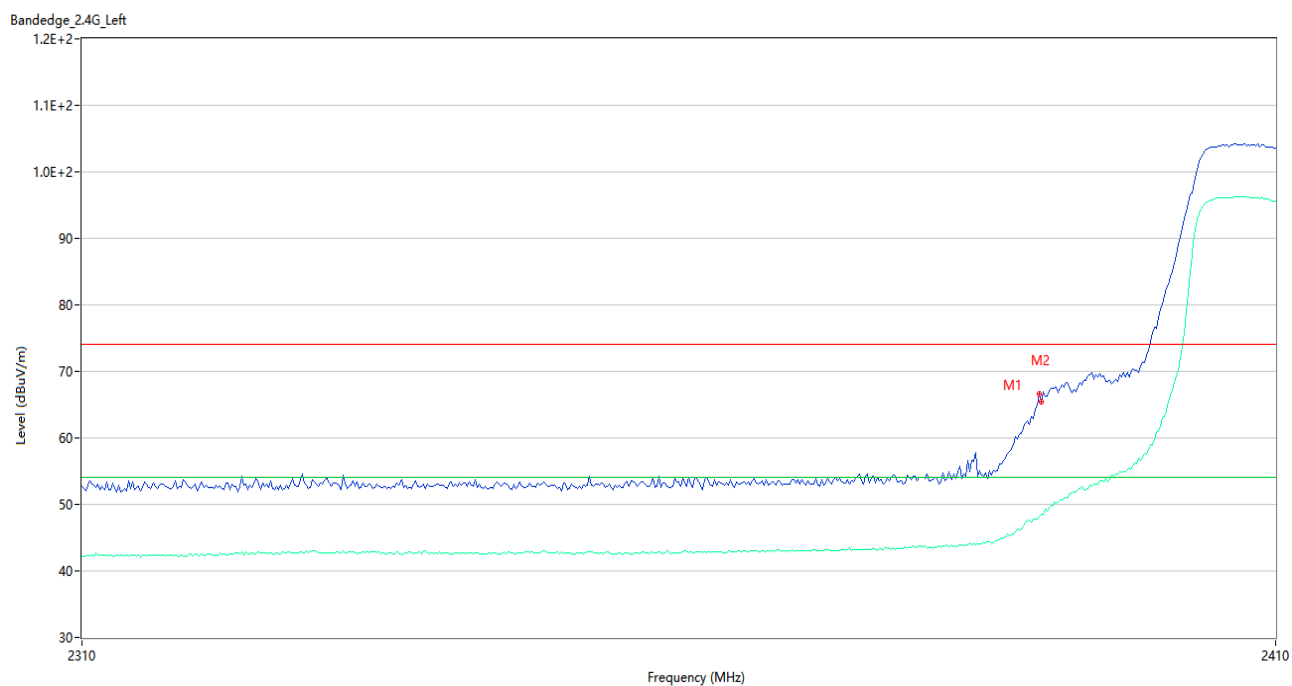
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	64.90	-2.35	74.0	9.10	Peak	121.00	200	Horizontal	Pass
1**	2390.000	49.64	-2.35	54.0	4.36	AV	121.00	200	Horizontal	Pass

802.11g HIGH CHANNEL



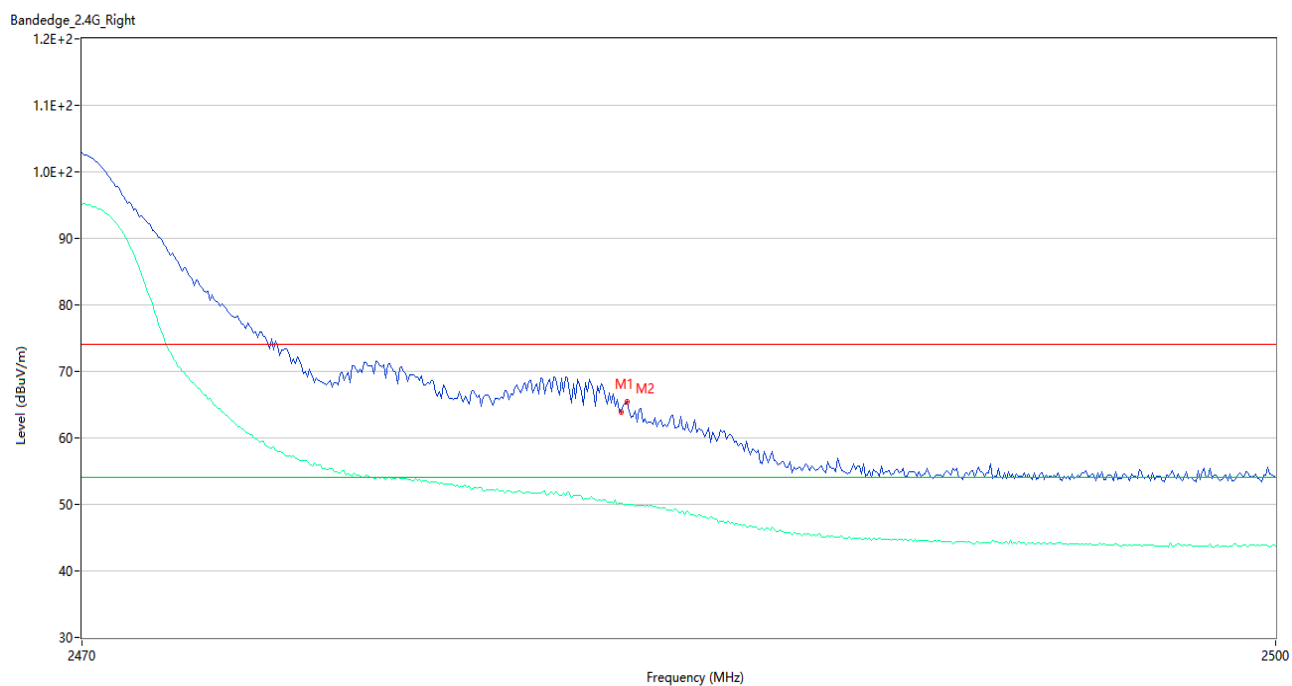
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.17	-0.86	74.0	10.83	Peak	124.00	100	Horizontal	Pass
1**	2483.500	50.29	-0.86	54.0	3.71	AV	124.00	100	Horizontal	Pass
2	2484.000	63.98	-0.84	74.0	10.02	Peak	128.00	200	Horizontal	Pass
2**	2484.000	49.47	-0.84	54.0	4.53	AV	128.00	200	Horizontal	Pass

802.11n20 LOW CHANNEL



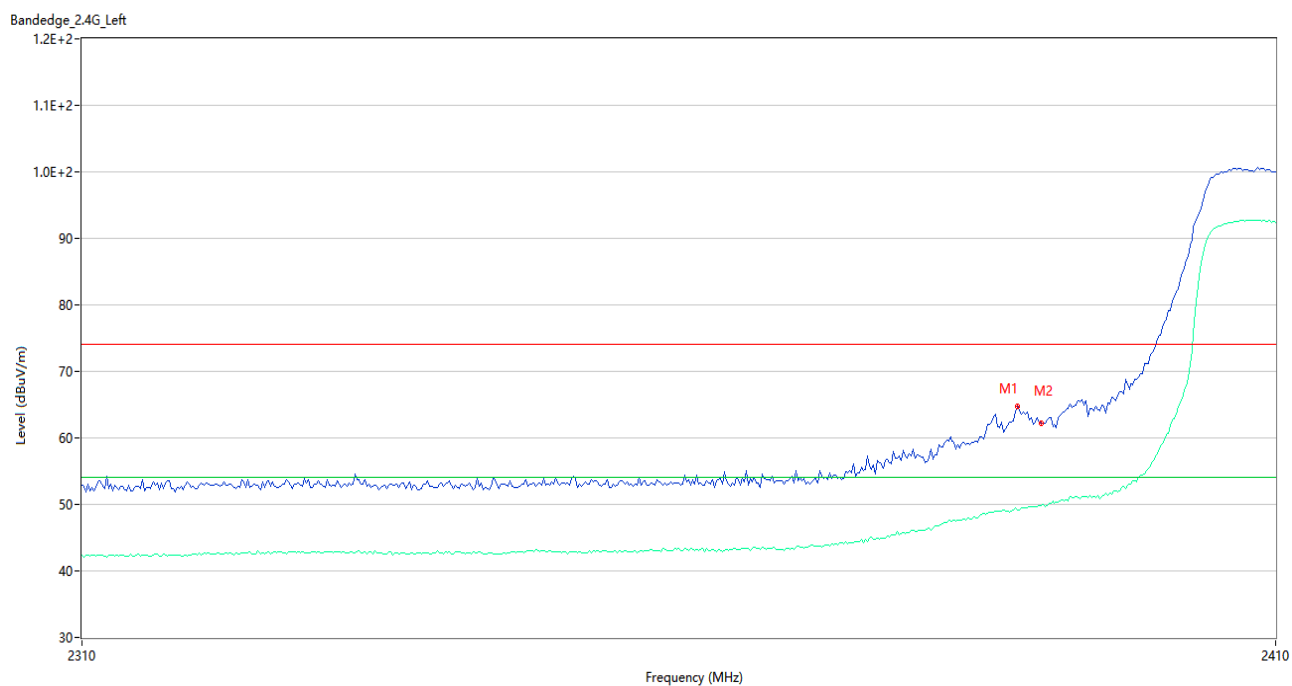
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.833	66.60	-2.34	74.0	7.40	Peak	305.00	150	Horizontal	Pass
1**	2389.833	48.12	-2.34	54.0	5.88	AV	305.00	150	Horizontal	Pass
2	2390.000	65.37	-2.35	74.0	8.63	Peak	119.00	200	Horizontal	Pass
2**	2390.000	48.50	-2.35	54.0	5.50	AV	119.00	200	Horizontal	Pass

802.11n20 HIGH CHANNEL



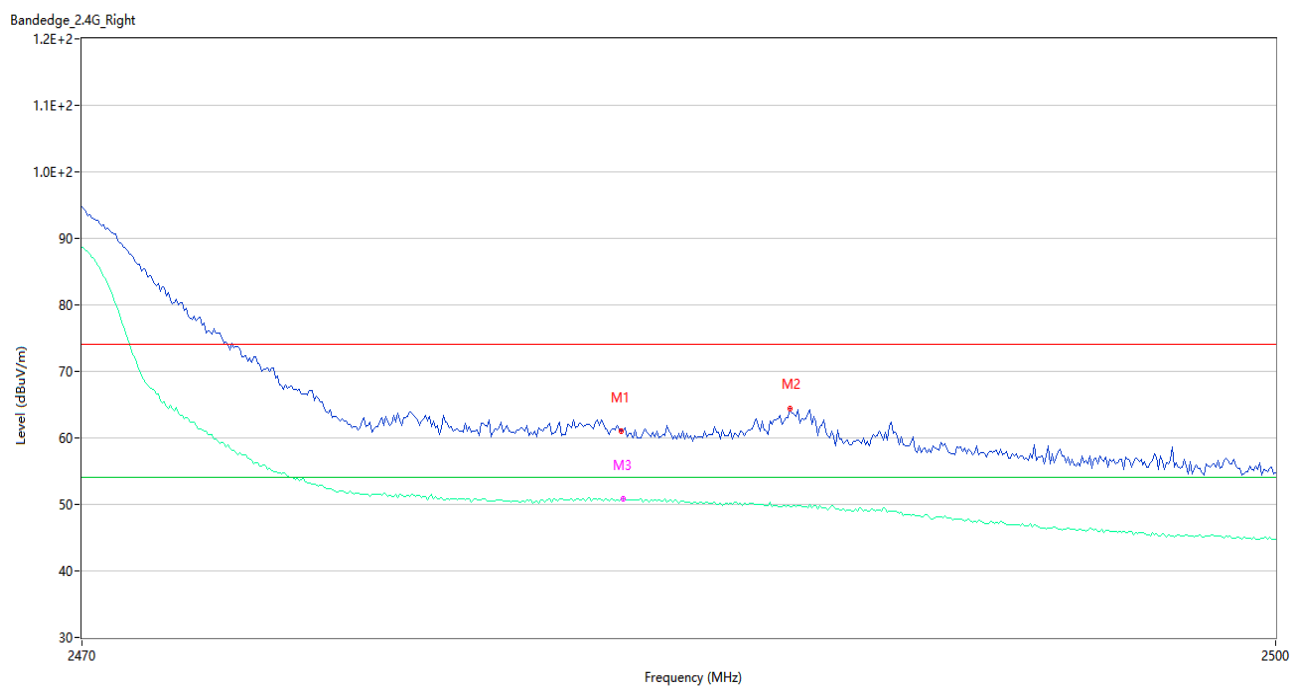
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.85	-0.86	74.0	10.15	Peak	119.00	200	Horizontal	Pass
1**	2483.500	50.16	-0.86	54.0	3.84	AV	119.00	200	Horizontal	Pass
2	2483.650	65.40	-0.86	74.0	8.60	Peak	130.00	100	Horizontal	Pass
2**	2483.650	49.98	-0.86	54.0	4.02	AV	130.00	100	Horizontal	Pass

802.11n40 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.000	64.76	-2.28	74.0	9.24	Peak	126.00	200	Horizontal	Pass
1**	2388.000	49.19	-2.28	54.0	4.81	AV	126.00	200	Horizontal	Pass
2	2390.000	62.16	-2.35	74.0	11.84	Peak	120.00	100	Horizontal	Pass
2**	2390.000	49.77	-2.35	54.0	4.23	AV	120.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	61.02	-0.86	74.0	12.98	Peak	124.00	150	Horizontal	Pass
1**	2483.500	50.67	-0.86	54.0	3.33	AV	124.00	150	Horizontal	Pass
2	2487.750	64.46	-0.80	74.0	9.54	Peak	130.00	200	Horizontal	Pass
2**	2487.750	49.63	-0.80	54.0	4.37	AV	130.00	200	Horizontal	Pass
3	2483.550	61.13	-0.86	74.0	12.87	Peak	127.00	150	Horizontal	Pass
3**	2483.550	50.88	-0.86	54.0	3.12	AV	127.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

SISO-Antenna 1

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.36	8
Middle	-13.85	8
High	-13.81	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.50	8
Middle	-12.41	8
High	-13.76	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.13	8
Middle	-12.41	8
High	-12.89	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.31	8
Middle	-15.57	8
High	-18.23	8

SISO-Antenna 2

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.24	8
Middle	-13.42	8
High	-13.29	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.75	8
Middle	-12.34	8
High	-13.69	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.61	8
Middle	-12.25	8
High	-14.11	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.21	8
Middle	-14.38	8
High	-17.54	8

Test Plots

SISO-Antenna 1

802.11b LOW CHANNEL



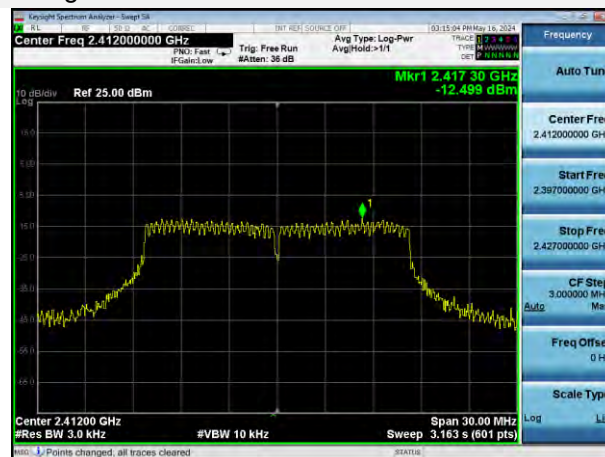
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



SISO-Antenna 2

802.11b LOW CHANNEL



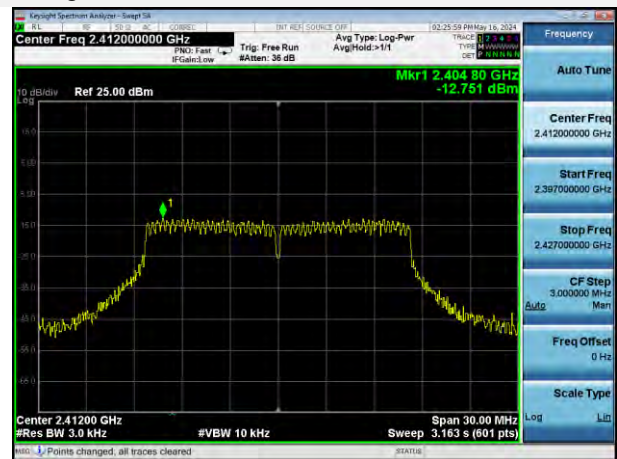
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



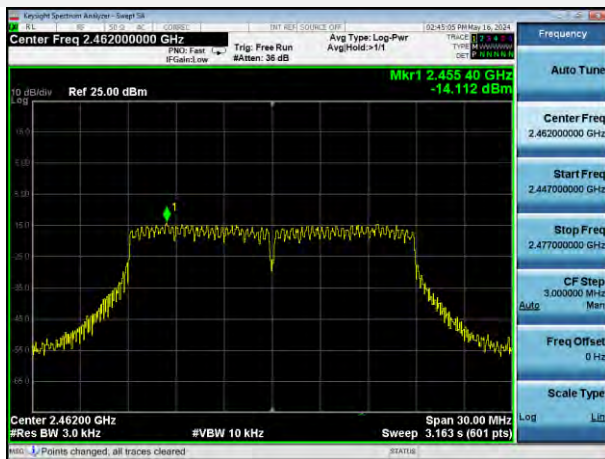
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2441452-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2441452-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2441452-AI.PDF”.

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--END OF REPORT--