

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: 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.

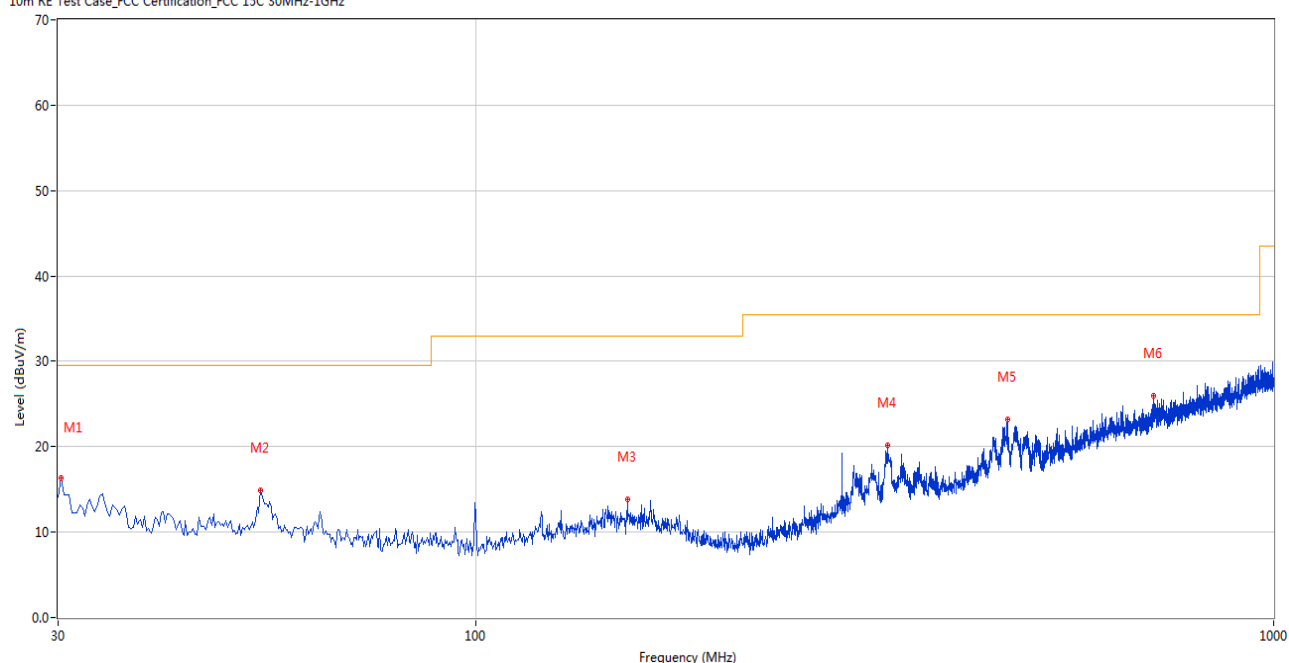
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: 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

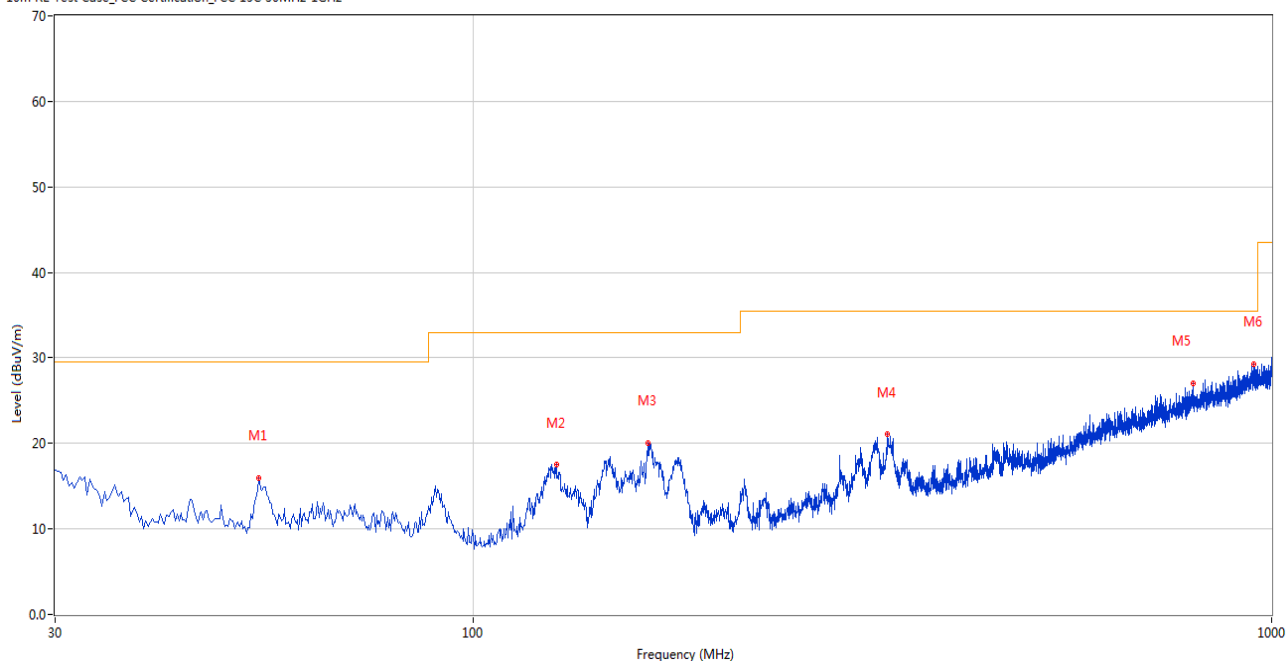
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.242	16.32	-26.84	29.5	13.18	Peak	0.00	200	Horizontal	Pass
2	53.759	14.93	-27.06	29.5	14.57	Peak	0.00	200	Horizontal	Pass
3	155.099	13.83	-26.11	33.0	19.17	Peak	297.00	200	Horizontal	Pass
4	327.958	20.14	-24.66	35.5	15.36	Peak	210.00	200	Horizontal	Pass
5	463.724	23.17	-20.79	35.5	12.33	Peak	85.00	200	Horizontal	Pass
6	707.618	25.98	-14.85	35.5	9.52	Peak	10.00	100	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	54.002	15.94	-27.08	29.5	13.56	Peak	4.00	200	Vertical	Pass
2	127.218	17.48	-27.53	33.0	15.52	Peak	303.00	200	Vertical	Pass
3	165.766	20.07	-26.22	33.0	12.93	Peak	270.00	100	Vertical	Pass
4	330.382	21.03	-24.94	35.5	14.47	Peak	248.00	100	Vertical	Pass
5	796.836	26.98	-12.50	35.5	8.52	Peak	0.00	200	Vertical	Pass
6	950.542	29.26	-9.55	35.5	6.24	Peak	102.00	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 pre tested, but only the worst case has been reported in this report.

SISO-ANT1

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	42.99	74.0	31.01	Peak	87.00	400	Horizontal	Pass
1**	1329.100	34.48	54.0	19.52	AV	87.00	400	Horizontal	Pass
2	2413.100	105.29	74.0	-31.29	Peak	40.00	100	Horizontal	N/A
2**	2413.100	102.56	54.0	-48.56	AV	40.00	100	Horizontal	N/A
3	4657.400	48.98	74.0	25.02	Peak	151.00	200	Horizontal	Pass
3**	4657.400	38.71	54.0	15.29	AV	151.00	200	Horizontal	Pass
4	7236.900	46.07	74.0	27.93	Peak	29.00	150	Horizontal	Pass
4**	7236.900	42.84	54.0	11.16	AV	29.00	150	Horizontal	Pass
5	12060.862	47.42	74.0	26.58	Peak	269.00	100	Horizontal	Pass
5**	12060.862	40.12	54.0	13.88	AV	269.00	100	Horizontal	Pass
6	17404.387	51.73	74.0	22.27	Peak	320.00	300	Horizontal	Pass
6**	17404.387	43.32	54.0	10.68	AV	320.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.000	43.62	74.0	30.38	Peak	41.00	200	Vertical	Pass
1**	1333.000	32.40	54.0	21.60	AV	41.00	200	Vertical	Pass
2	2412.000	105.23	74.0	-31.23	Peak	166.00	150	Vertical	N/A
2**	2412.000	101.69	54.0	-47.69	AV	166.00	150	Vertical	N/A
3	5105.000	48.86	74.0	25.14	Peak	193.00	150	Vertical	Pass
3**	5105.000	39.56	54.0	14.44	AV	193.00	150	Vertical	Pass
4	7234.313	45.43	74.0	28.57	Peak	316.00	150	Vertical	Pass
4**	7234.313	41.59	54.0	12.41	AV	316.00	150	Vertical	Pass
5	12061.150	47.57	74.0	26.43	Peak	292.00	100	Vertical	Pass
5**	12061.150	39.77	54.0	14.23	AV	292.00	100	Vertical	Pass
6	17423.026	52.30	74.0	21.70	Peak	24.00	400	Vertical	Pass
6**	17423.026	42.56	54.0	11.44	AV	24.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1491.000	41.01	74.0	32.99	Peak	302.00	400	Horizontal	Pass
1**	1491.000	31.30	54.0	22.70	AV	302.00	400	Horizontal	Pass
2	2437.000	103.52	74.0	-29.52	Peak	39.00	100	Horizontal	N/A
2**	2437.000	99.74	54.0	-45.74	AV	39.00	100	Horizontal	N/A
3	4912.400	49.10	74.0	24.90	Peak	269.00	200	Horizontal	Pass
3**	4912.400	38.62	54.0	15.38	AV	269.00	200	Horizontal	Pass
4	7309.638	45.89	74.0	28.11	Peak	6.00	150	Horizontal	Pass
4**	7309.638	41.49	54.0	12.51	AV	6.00	150	Horizontal	Pass
5	12185.349	47.50	74.0	26.50	Peak	267.00	300	Horizontal	Pass
5**	12185.349	40.58	54.0	13.42	AV	267.00	300	Horizontal	Pass
6	17406.224	52.14	74.0	21.86	Peak	77.00	300	Horizontal	Pass
6**	17406.224	42.50	54.0	11.50	AV	77.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.200	42.82	74.0	31.18	Peak	0.00	400	Vertical	Pass
1**	1329.200	32.54	54.0	21.46	AV	0.00	400	Vertical	Pass
2	2437.000	103.69	74.0	-29.69	Peak	234.00	150	Vertical	N/A
2**	2437.000	100.59	54.0	-46.59	AV	234.00	150	Vertical	N/A
3	4819.200	48.44	74.0	25.56	Peak	181.00	150	Vertical	Pass
3**	4819.200	39.81	54.0	14.19	AV	181.00	150	Vertical	Pass
4	7312.225	47.38	74.0	26.62	Peak	52.00	150	Vertical	Pass
4**	7312.225	42.46	54.0	11.54	AV	52.00	150	Vertical	Pass
5	11485.000	47.38	74.0	26.62	Peak	196.00	200	Vertical	Pass
5**	11485.000	36.61	54.0	17.39	AV	196.00	200	Vertical	Pass
6	17410.163	51.97	74.0	22.03	Peak	182.00	100	Vertical	Pass
6**	17410.163	42.26	54.0	11.74	AV	182.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.200	44.40	74.0	29.60	Peak	93.00	400	Horizontal	Pass
1**	1331.200	33.18	54.0	20.82	AV	93.00	400	Horizontal	Pass
2	2463.200	98.50	74.0	-24.50	Peak	13.00	200	Horizontal	N/A
2**	2463.200	95.62	54.0	-41.62	AV	13.00	200	Horizontal	N/A
3	5052.200	49.82	74.0	24.18	Peak	136.00	150	Horizontal	Pass
3**	5052.200	41.23	54.0	12.77	AV	136.00	150	Horizontal	Pass
4	6992.200	52.97	74.0	21.03	Peak	170.00	300	Horizontal	Pass
4**	6992.200	42.66	54.0	11.34	AV	170.00	300	Horizontal	Pass
5	12930.600	47.55	74.0	26.45	Peak	333.00	400	Horizontal	Pass
5**	12930.600	38.02	54.0	15.98	AV	333.00	400	Horizontal	Pass
6	17404.125	51.31	74.0	22.69	Peak	360.00	200	Horizontal	Pass
6**	17404.125	42.85	54.0	11.15	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.300	45.36	74.0	28.64	Peak	360.00	200	Vertical	Pass
1**	1164.300	33.68	54.0	20.32	AV	360.00	200	Vertical	Pass
2	2463.100	102.36	74.0	-28.36	Peak	38.00	200	Vertical	N/A
2**	2463.100	99.66	54.0	-45.66	AV	38.00	200	Vertical	N/A
3	4934.400	48.84	74.0	25.16	Peak	147.00	200	Vertical	Pass
3**	4934.400	39.36	54.0	14.64	AV	147.00	200	Vertical	Pass
4	6988.800	51.41	74.0	22.59	Peak	72.00	400	Vertical	Pass
4**	6988.800	43.31	54.0	10.69	AV	72.00	400	Vertical	Pass
5	12887.812	47.57	74.0	26.43	Peak	76.00	200	Vertical	Pass
5**	12887.812	38.14	54.0	15.86	AV	76.00	200	Vertical	Pass
6	17421.713	51.72	74.0	22.28	Peak	360.00	200	Vertical	Pass
6**	17421.713	42.40	54.0	11.60	AV	360.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1306.700	41.69	74.0	32.31	Peak	0.00	100	Horizontal	Pass
1**	1306.700	31.76	54.0	22.24	AV	0.00	100	Horizontal	Pass
2	2413.800	98.88	74.0	-24.88	Peak	256.00	100	Horizontal	N/A
2**	2413.800	91.55	54.0	-37.55	AV	256.00	100	Horizontal	N/A
3	4940.200	48.66	74.0	25.34	Peak	344.00	200	Horizontal	Pass
3**	4940.200	39.62	54.0	14.38	AV	344.00	200	Horizontal	Pass
4	6977.600	52.01	74.0	21.99	Peak	359.00	100	Horizontal	Pass
4**	6977.600	43.00	54.0	11.00	AV	359.00	100	Horizontal	Pass
5	12067.474	47.40	74.0	26.60	Peak	291.00	300	Horizontal	Pass
5**	12067.474	37.81	54.0	16.19	AV	291.00	300	Horizontal	Pass
6	17403.599	51.88	74.0	22.12	Peak	265.00	300	Horizontal	Pass
6**	17403.599	42.74	54.0	11.26	AV	265.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.900	43.90	74.0	30.10	Peak	31.00	300	Vertical	Pass
1**	1163.900	34.24	54.0	19.76	AV	31.00	300	Vertical	Pass
2	2413.100	103.74	74.0	-29.74	Peak	39.00	100	Vertical	N/A
2**	2413.100	95.70	54.0	-41.70	AV	39.00	100	Vertical	N/A
3	5056.800	50.00	74.0	24.00	Peak	172.00	150	Vertical	Pass
3**	5056.800	39.03	54.0	14.97	AV	172.00	150	Vertical	Pass
4	6981.200	51.95	74.0	22.05	Peak	77.00	200	Vertical	Pass
4**	6981.200	42.69	54.0	11.31	AV	77.00	200	Vertical	Pass
5	12287.126	47.94	74.0	26.06	Peak	241.00	400	Vertical	Pass
5**	12287.126	38.45	54.0	15.55	AV	241.00	400	Vertical	Pass
6	17421.449	51.24	74.0	22.76	Peak	81.00	100	Vertical	Pass
6**	17421.449	42.62	54.0	11.38	AV	81.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.400	44.19	74.0	29.81	Peak	91.00	300	Horizontal	Pass
1**	1330.400	36.19	54.0	17.81	AV	91.00	300	Horizontal	Pass
2	2439.500	103.91	74.0	-29.91	Peak	11.00	200	Horizontal	N/A
2**	2439.500	95.27	54.0	-41.27	AV	11.00	200	Horizontal	N/A
3	4669.000	48.58	74.0	25.42	Peak	105.00	150	Horizontal	Pass
3**	4669.000	38.88	54.0	15.12	AV	105.00	150	Horizontal	Pass
4	7308.775	43.55	74.0	30.45	Peak	7.00	150	Horizontal	Pass
4**	7308.775	38.95	54.0	15.05	AV	7.00	150	Horizontal	Pass
5	12031.537	47.75	74.0	26.25	Peak	126.00	400	Horizontal	Pass
5**	12031.537	37.18	54.0	16.82	AV	126.00	400	Horizontal	Pass
6	17400.449	51.15	74.0	22.85	Peak	75.00	300	Horizontal	Pass
6**	17400.449	42.51	54.0	11.49	AV	75.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.900	42.75	74.0	31.25	Peak	141.00	200	Vertical	Pass
1**	1161.900	31.18	54.0	22.82	AV	141.00	200	Vertical	Pass
2	2439.100	107.01	74.0	-33.01	Peak	118.00	100	Vertical	N/A
2**	2439.100	98.66	54.0	-44.66	AV	118.00	100	Vertical	N/A
3	4941.800	48.65	74.0	25.35	Peak	163.00	100	Vertical	Pass
3**	4941.800	39.33	54.0	14.67	AV	163.00	100	Vertical	Pass
4	7318.550	44.96	74.0	29.04	Peak	53.00	150	Vertical	Pass
4**	7318.550	40.16	54.0	13.84	AV	53.00	150	Vertical	Pass
5	12298.912	47.36	74.0	26.64	Peak	103.00	200	Vertical	Pass
5**	12298.912	37.88	54.0	16.12	AV	103.00	200	Vertical	Pass
6	17428.275	51.79	74.0	22.21	Peak	360.00	300	Vertical	Pass
6**	17428.275	43.02	54.0	10.98	AV	360.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.500	41.51	74.0	32.49	Peak	248.00	400	Horizontal	Pass
1**	1497.500	32.36	54.0	21.64	AV	248.00	400	Horizontal	Pass
2	2461.200	95.91	74.0	-21.91	Peak	263.00	100	Horizontal	N/A
2**	2461.200	87.63	54.0	-33.63	AV	263.00	100	Horizontal	N/A
3	4901.600	48.65	74.0	25.35	Peak	236.00	200	Horizontal	Pass
3**	4901.600	38.10	54.0	15.90	AV	236.00	200	Horizontal	Pass
4	6149.600	51.29	74.0	22.71	Peak	311.00	200	Horizontal	Pass
4**	6149.600	41.55	54.0	12.45	AV	311.00	200	Horizontal	Pass
5	12931.387	47.39	74.0	26.61	Peak	360.00	300	Horizontal	Pass
5**	12931.387	38.73	54.0	15.27	AV	360.00	300	Horizontal	Pass
6	17183.363	51.56	74.0	22.44	Peak	262.00	400	Horizontal	Pass
6**	17183.363	42.77	54.0	11.23	AV	262.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1165.000	46.72	74.0	27.28	Peak	360.00	300	Vertical	Pass
1**	1165.000	35.86	54.0	18.14	AV	360.00	300	Vertical	Pass
2	2464.000	100.81	74.0	-26.81	Peak	117.00	100	Vertical	N/A
2**	2464.000	92.66	54.0	-38.66	AV	117.00	100	Vertical	N/A
3	4810.400	48.37	74.0	25.63	Peak	298.00	100	Vertical	Pass
3**	4810.400	39.34	54.0	14.66	AV	298.00	100	Vertical	Pass
4	6981.400	52.94	74.0	21.06	Peak	0.00	300	Vertical	Pass
4**	6981.400	42.73	54.0	11.27	AV	0.00	300	Vertical	Pass
5	12526.900	47.46	74.0	26.54	Peak	173.00	200	Vertical	Pass
5**	12526.900	37.46	54.0	16.54	AV	173.00	200	Vertical	Pass
6	17392.839	51.56	74.0	22.44	Peak	360.00	200	Vertical	Pass
6**	17392.839	42.91	54.0	11.09	AV	360.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.500	41.11	74.0	32.89	Peak	88.00	100	Horizontal	Pass
1**	1328.500	34.57	54.0	19.43	AV	88.00	100	Horizontal	Pass
2	2414.600	95.84	74.0	-21.84	Peak	12.00	150	Horizontal	N/A
2**	2414.600	88.46	54.0	-34.46	AV	12.00	150	Horizontal	N/A
3	4976.400	48.63	74.0	25.37	Peak	0.00	100	Horizontal	Pass
3**	4976.400	40.17	54.0	13.83	AV	0.00	100	Horizontal	Pass
4	6980.200	51.75	74.0	22.25	Peak	239.00	100	Horizontal	Pass
4**	6980.200	43.68	54.0	10.32	AV	239.00	100	Horizontal	Pass
5	12603.088	48.36	74.0	25.64	Peak	69.00	300	Horizontal	Pass
5**	12603.088	38.01	54.0	15.99	AV	69.00	300	Horizontal	Pass
6	17397.037	51.85	74.0	22.15	Peak	161.00	300	Horizontal	Pass
6**	17397.037	42.49	54.0	11.51	AV	161.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.600	45.75	74.0	28.25	Peak	356.00	400	Vertical	Pass
1**	1162.600	31.34	54.0	22.66	AV	356.00	400	Vertical	Pass
2	2414.500	99.70	74.0	-25.70	Peak	37.00	200	Vertical	N/A
2**	2414.500	92.64	54.0	-38.64	AV	37.00	200	Vertical	N/A
3	4876.600	48.80	74.0	25.20	Peak	61.00	200	Vertical	Pass
3**	4876.600	39.41	54.0	14.59	AV	61.00	200	Vertical	Pass
4	6993.200	51.43	74.0	22.57	Peak	213.00	100	Vertical	Pass
4**	6993.200	43.32	54.0	10.68	AV	213.00	100	Vertical	Pass
5	12908.812	48.40	74.0	25.60	Peak	339.00	100	Vertical	Pass
5**	12908.812	38.49	54.0	15.51	AV	339.00	100	Vertical	Pass
6	17420.401	51.22	74.0	22.78	Peak	24.00	300	Vertical	Pass
6**	17420.401	42.70	54.0	11.30	AV	24.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1429.200	41.35	74.0	32.65	Peak	145.00	300	Horizontal	Pass
1**	1429.200	31.95	54.0	22.05	AV	145.00	300	Horizontal	Pass
2	2442.600	101.29	74.0	-27.29	Peak	16.00	200	Horizontal	N/A
2**	2442.600	95.14	54.0	-41.14	AV	16.00	200	Horizontal	N/A
3	4809.600	49.37	74.0	24.63	Peak	117.00	100	Horizontal	Pass
3**	4809.600	39.42	54.0	14.58	AV	117.00	100	Horizontal	Pass
4	6987.000	51.55	74.0	22.45	Peak	206.00	300	Horizontal	Pass
4**	6987.000	43.12	54.0	10.88	AV	206.00	300	Horizontal	Pass
5	7313.950	43.32	74.0	30.68	Peak	177.00	150	Horizontal	Pass
5**	7313.950	39.91	54.0	14.09	AV	177.00	150	Horizontal	Pass
6	17405.962	51.75	74.0	22.25	Peak	345.00	400	Horizontal	Pass
6**	17405.962	42.29	54.0	11.71	AV	345.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.700	45.29	74.0	28.71	Peak	355.00	100	Vertical	Pass
1**	1164.700	36.16	54.0	17.84	AV	355.00	100	Vertical	Pass
2	2435.000	105.18	74.0	-31.18	Peak	39.00	100	Vertical	N/A
2**	2435.000	97.66	54.0	-43.66	AV	39.00	100	Vertical	N/A
3	4975.600	48.60	74.0	25.40	Peak	12.00	200	Vertical	Pass
3**	4975.600	39.88	54.0	14.12	AV	12.00	200	Vertical	Pass
4	7313.950	44.88	74.0	29.12	Peak	52.00	150	Vertical	Pass
4**	7313.950	42.15	54.0	11.85	AV	52.00	150	Vertical	Pass
5	12623.787	47.48	74.0	26.52	Peak	290.00	100	Vertical	Pass
5**	12623.787	37.57	54.0	16.43	AV	290.00	100	Vertical	Pass
6	17402.550	51.99	74.0	22.01	Peak	50.00	100	Vertical	Pass
6**	17402.550	42.91	54.0	11.09	AV	50.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.900	41.35	74.0	32.65	Peak	93.00	100	Horizontal	Pass
1**	1329.900	32.27	54.0	21.73	AV	93.00	100	Horizontal	Pass
2	2464.400	93.60	74.0	-19.60	Peak	15.00	150	Horizontal	N/A
2**	2464.400	86.51	54.0	-32.51	AV	15.00	150	Horizontal	N/A
3	5061.600	49.75	74.0	24.25	Peak	300.00	150	Horizontal	Pass
3**	5061.600	39.59	54.0	14.41	AV	300.00	150	Horizontal	Pass
4	6978.600	51.72	74.0	22.28	Peak	89.00	400	Horizontal	Pass
4**	6978.600	42.78	54.0	11.22	AV	89.00	400	Horizontal	Pass
5	12895.425	47.70	74.0	26.30	Peak	360.00	200	Horizontal	Pass
5**	12895.425	38.80	54.0	15.20	AV	360.00	200	Horizontal	Pass
6	17424.863	52.00	74.0	22.00	Peak	129.00	400	Horizontal	Pass
6**	17424.863	42.54	54.0	11.46	AV	129.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.700	45.14	74.0	28.86	Peak	0.00	400	Vertical	Pass
1**	1160.700	32.51	54.0	21.49	AV	0.00	400	Vertical	Pass
2	2469.000	97.93	74.0	-23.93	Peak	44.00	150	Vertical	N/A
2**	2469.000	91.66	54.0	-37.66	AV	44.00	150	Vertical	N/A
3	4874.200	48.70	74.0	25.30	Peak	193.00	100	Vertical	Pass
3**	4874.200	39.78	54.0	14.22	AV	193.00	100	Vertical	Pass
4	6990.000	52.43	74.0	21.57	Peak	193.00	200	Vertical	Pass
4**	6990.000	43.04	54.0	10.96	AV	193.00	200	Vertical	Pass
5	12927.974	47.27	74.0	26.73	Peak	360.00	300	Vertical	Pass
5**	12927.974	38.12	54.0	15.88	AV	360.00	300	Vertical	Pass
6	17429.588	50.92	74.0	23.08	Peak	154.00	200	Vertical	Pass
6**	17429.588	42.81	54.0	11.19	AV	154.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.800	41.92	74.0	32.08	Peak	82.00	200	Horizontal	Pass
1**	1328.800	32.57	54.0	21.43	AV	82.00	200	Horizontal	Pass
2	2410.500	100.35	74.0	-26.35	Peak	73.00	200	Horizontal	N/A
2**	2410.500	91.74	54.0	-37.74	AV	73.00	200	Horizontal	N/A
3	4810.800	48.35	74.0	25.65	Peak	241.00	100	Horizontal	Pass
3**	4810.800	40.26	54.0	13.74	AV	241.00	100	Horizontal	Pass
4	6982.000	52.08	74.0	21.92	Peak	309.00	400	Horizontal	Pass
4**	6982.000	42.86	54.0	11.14	AV	309.00	400	Horizontal	Pass
5	12269.013	47.90	74.0	26.10	Peak	0.00	200	Horizontal	Pass
5**	12269.013	37.27	54.0	16.73	AV	0.00	200	Horizontal	Pass
6	17353.724	51.58	74.0	22.42	Peak	319.00	300	Horizontal	Pass
6**	17353.724	41.48	54.0	12.52	AV	319.00	300	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.700	44.83	74.0	29.17	Peak	0.00	100	Vertical	Pass
1**	1161.700	32.20	54.0	21.80	AV	0.00	100	Vertical	Pass
2	2410.400	101.83	74.0	-27.83	Peak	44.00	100	Vertical	N/A
2**	2410.400	92.68	54.0	-38.68	AV	44.00	100	Vertical	N/A
3	4934.000	48.48	74.0	25.52	Peak	343.00	200	Vertical	Pass
3**	4934.000	39.77	54.0	14.23	AV	343.00	200	Vertical	Pass
4	6995.000	51.67	74.0	22.33	Peak	128.00	400	Vertical	Pass
4**	6995.000	42.99	54.0	11.01	AV	128.00	400	Vertical	Pass
5	12897.263	47.40	74.0	26.60	Peak	202.00	300	Vertical	Pass
5**	12897.263	38.57	54.0	15.43	AV	202.00	300	Vertical	Pass
6	17421.449	51.33	74.0	22.67	Peak	360.00	100	Vertical	Pass
6**	17421.449	42.27	54.0	11.73	AV	360.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1364.300	41.22	74.0	32.78	Peak	215.00	300	Horizontal	Pass
1**	1364.300	31.40	54.0	22.60	AV	215.00	300	Horizontal	Pass
2	2434.800	103.72	74.0	-29.72	Peak	29.00	150	Horizontal	N/A
2**	2434.800	96.03	54.0	-42.03	AV	29.00	150	Horizontal	N/A
3	4938.000	48.48	74.0	25.52	Peak	282.00	200	Horizontal	Pass
3**	4938.000	38.63	54.0	15.37	AV	282.00	200	Horizontal	Pass
4	7315.388	43.50	74.0	30.50	Peak	21.00	150	Horizontal	Pass
4**	7315.388	39.70	54.0	14.30	AV	21.00	150	Horizontal	Pass
5	12515.687	47.70	74.0	26.30	Peak	332.00	300	Horizontal	Pass
5**	12515.687	37.62	54.0	16.38	AV	332.00	300	Horizontal	Pass
6	17436.676	51.96	74.0	22.04	Peak	260.00	400	Horizontal	Pass
6**	17436.676	42.41	54.0	11.59	AV	260.00	400	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.000	45.36	74.0	28.64	Peak	360.00	300	Vertical	Pass
1**	1166.000	32.71	54.0	21.29	AV	360.00	300	Vertical	Pass
2	2440.700	107.74	74.0	-33.74	Peak	42.00	100	Vertical	N/A
2**	2440.700	98.24	54.0	-44.24	AV	42.00	100	Vertical	N/A
3	4968.600	48.44	74.0	25.56	Peak	43.00	100	Vertical	Pass
3**	4968.600	39.13	54.0	14.87	AV	43.00	100	Vertical	Pass
4	7307.337	44.99	74.0	29.01	Peak	55.00	150	Vertical	Pass
4**	7307.337	39.70	54.0	14.30	AV	55.00	150	Vertical	Pass
5	11277.138	47.68	74.0	26.32	Peak	222.00	100	Vertical	Pass
5**	11277.138	39.14	54.0	14.86	AV	222.00	100	Vertical	Pass
6	17431.687	51.45	74.0	22.55	Peak	360.00	100	Vertical	Pass
6**	17431.687	42.39	54.0	11.61	AV	360.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1545.200	41.96	74.0	32.04	Peak	255.00	300	Horizontal	Pass
1**	1545.200	31.74	54.0	22.26	AV	255.00	300	Horizontal	Pass
2	2459.800	97.45	74.0	-23.45	Peak	240.00	100	Horizontal	N/A
2**	2459.800	87.78	54.0	-33.78	AV	240.00	100	Horizontal	N/A
3	4874.800	48.53	74.0	25.47	Peak	296.00	150	Horizontal	Pass
3**	4874.800	38.83	54.0	15.17	AV	296.00	150	Horizontal	Pass
4	6985.000	51.61	74.0	22.39	Peak	190.00	400	Horizontal	Pass
4**	6985.000	43.54	54.0	10.46	AV	190.00	400	Horizontal	Pass
5	11915.099	47.10	74.0	26.90	Peak	9.00	100	Horizontal	Pass
5**	11915.099	37.38	54.0	16.62	AV	9.00	100	Horizontal	Pass
6	17431.425	52.45	74.0	21.55	Peak	288.00	100	Horizontal	Pass
6**	17431.425	42.57	54.0	11.43	AV	288.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.200	44.91	74.0	29.09	Peak	130.00	400	Vertical	Pass
1**	1163.200	33.76	54.0	20.24	AV	130.00	400	Vertical	Pass
2	2461.000	101.05	74.0	-27.05	Peak	46.00	150	Vertical	N/A
2**	2461.000	92.21	54.0	-38.21	AV	46.00	150	Vertical	N/A
3	4701.600	49.08	74.0	24.92	Peak	136.00	150	Vertical	Pass
3**	4701.600	38.47	54.0	15.53	AV	136.00	150	Vertical	Pass
4	6990.200	51.53	74.0	22.47	Peak	167.00	200	Vertical	Pass
4**	6990.200	42.95	54.0	11.05	AV	167.00	200	Vertical	Pass
5	12451.287	47.39	74.0	26.61	Peak	221.00	100	Vertical	Pass
5**	12451.287	37.40	54.0	16.60	AV	221.00	100	Vertical	Pass
6	17409.901	52.41	74.0	21.59	Peak	128.00	400	Vertical	Pass
6**	17409.901	42.03	54.0	11.97	AV	128.00	400	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

Note³: 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.

Note⁴: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-ANT1

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.335	59.80	74.0	14.20	Peak	208.00	100	Vertical	Pass
1**	2389.335	48.59	54.0	5.41	AV	208.00	100	Vertical	Pass
2	2389.965	59.23	74.0	14.77	Peak	239.00	100	Vertical	Pass
2**	2389.965	49.32	54.0	4.68	AV	239.00	100	Vertical	Pass
3	2387.445	58.19	74.0	15.81	Peak	279.00	150	Vertical	Pass
3**	2387.445	49.76	54.0	4.24	AV	279.00	150	Vertical	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.517	57.72	74.0	16.28	Peak	306.00	150	Vertical	Pass
1**	2483.517	48.02	54.0	5.98	AV	306.00	150	Vertical	Pass
2	2486.190	59.61	74.0	14.39	Peak	354.00	200	Vertical	Pass
2**	2486.190	48.63	54.0	5.37	AV	354.00	200	Vertical	Pass
3	2488.120	58.14	74.0	15.86	Peak	74.00	150	Vertical	Pass
3**	2488.120	49.94	54.0	4.06	AV	74.00	150	Vertical	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.740	65.90	74.0	8.10	Peak	50.00	100	Vertical	Pass
1**	2389.740	50.41	54.0	3.59	AV	50.00	100	Vertical	Pass
2	2389.965	61.93	74.0	12.07	Peak	57.00	100	Vertical	Pass
2**	2389.965	50.46	54.0	3.54	AV	57.00	100	Vertical	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.558	62.31	74.0	11.69	Peak	43.00	150	Vertical	Pass
1**	2483.558	51.02	54.0	2.98	AV	43.00	150	Vertical	Pass
2	2483.706	64.21	74.0	9.79	Peak	47.00	100	Vertical	Pass
2**	2483.706	51.17	54.0	2.83	AV	47.00	100	Vertical	Pass
3	2483.756	60.86	74.0	13.14	Peak	47.00	150	Vertical	Pass
3**	2483.756	51.12	54.0	2.88	AV	47.00	150	Vertical	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.300	65.67	74.0	8.33	Peak	48.00	150	Vertical	Pass
1**	2388.300	50.57	54.0	3.43	AV	48.00	150	Vertical	Pass
2	2389.965	63.76	74.0	10.24	Peak	46.00	150	Vertical	Pass
2**	2389.965	51.00	54.0	3.00	AV	46.00	150	Vertical	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.582	61.86	74.0	12.14	Peak	39.00	200	Vertical	Pass
1**	2483.582	49.71	54.0	4.29	AV	39.00	200	Vertical	Pass
2	2483.879	62.02	74.0	11.98	Peak	45.00	150	Vertical	Pass
2**	2483.879	49.56	54.0	4.44	AV	45.00	150	Vertical	Pass
3	2483.517	58.71	74.0	15.29	Peak	42.00	150	Vertical	Pass
3**	2483.517	50.42	54.0	3.58	AV	42.00	150	Vertical	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.335	64.42	74.0	9.58	Peak	242.00	100	Vertical	Pass
1**	2389.335	50.38	54.0	3.62	AV	242.00	100	Vertical	Pass
2	2389.965	62.94	74.0	11.06	Peak	273.00	150	Vertical	Pass
2**	2389.965	51.98	54.0	2.02	AV	273.00	150	Vertical	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	67.00	74.0	7.00	Peak	46.00	200	Vertical	Pass
1**	2483.500	51.93	54.0	2.07	AV	46.00	200	Vertical	Pass
2	2483.706	65.74	74.0	8.26	Peak	118.00	200	Vertical	Pass
2**	2483.706	51.41	54.0	2.59	AV	118.00	200	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

SISO-ANT0

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-0.93	8
Middle	-4.25	8
High	-5.09	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.07	8
Middle	-6.50	8
High	-13.73	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.26	8
Middle	-7.34	8
High	-14.17	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.68	8
Middle	-7.84	8
High	-12.72	8

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802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-2.43	8
Middle	-2.31	8
High	-5.31	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.56	8
Middle	-4.07	8
High	-12.35	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.94	8
Middle	-3.97	8
High	-12.87	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.30	8
Middle	-3.65	8
High	-12.96	8

MIMO

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.09	8
Middle	-2.32	8
High	-10.46	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.48	8
Middle	-2.25	8
High	-9.83	8

Test Plots

SISO-ANT0

802.11b LOW CHANNEL



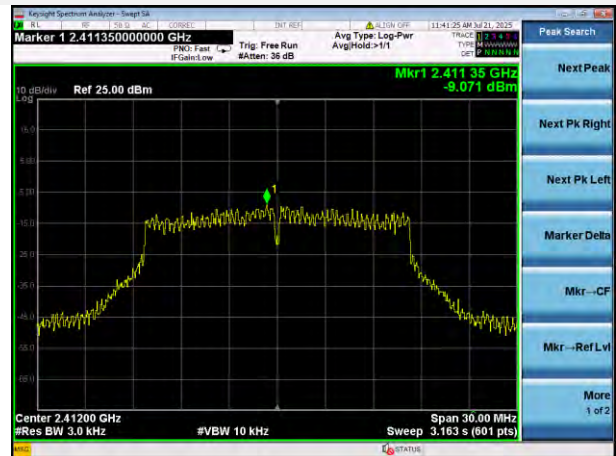
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



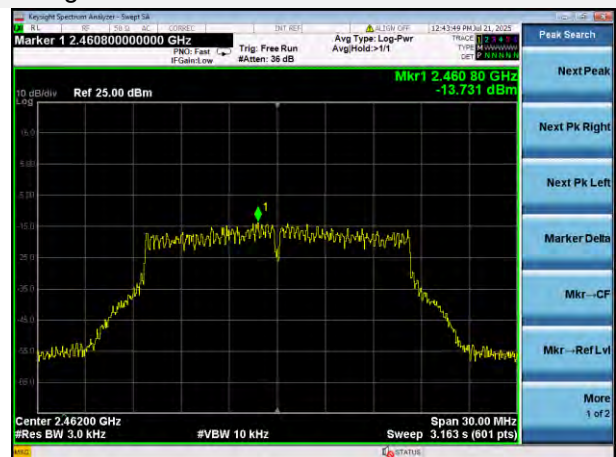
802.11g LOW CHANNEL



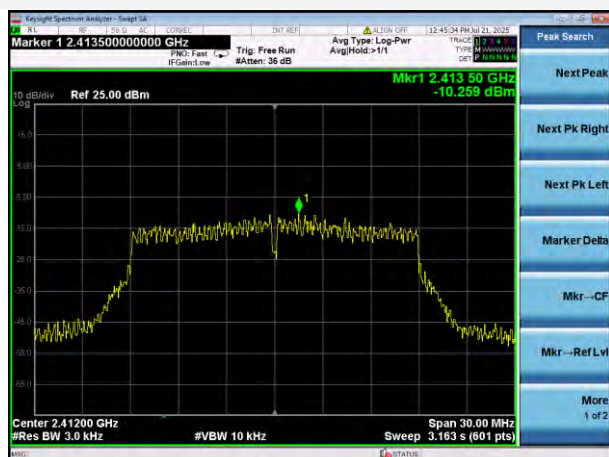
802.11g MIDDLE CHANNEL



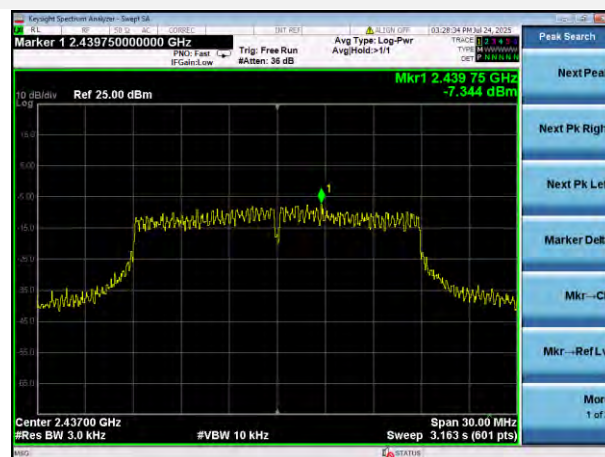
802.11g HIGH CHANNEL



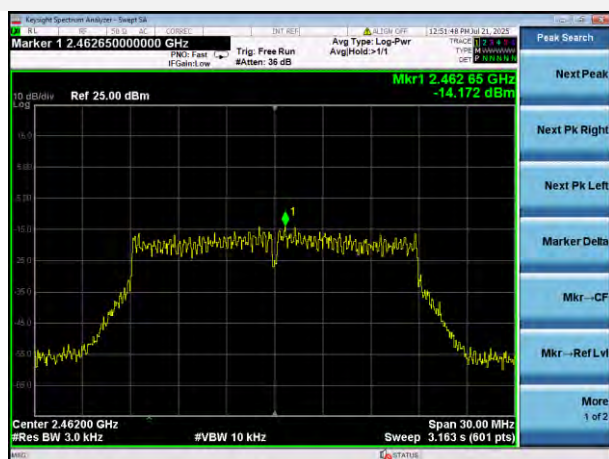
802.11n-20 MHz LOW CHANNEL



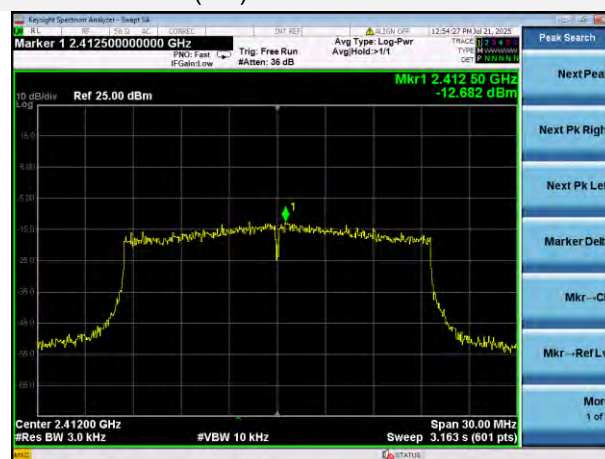
802.11n-20 MHz MIDDLE CHANNEL



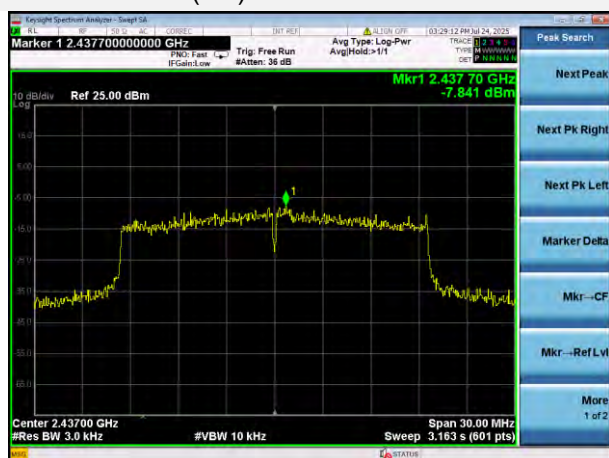
802.11n-20 MHz HIGH CHANNEL



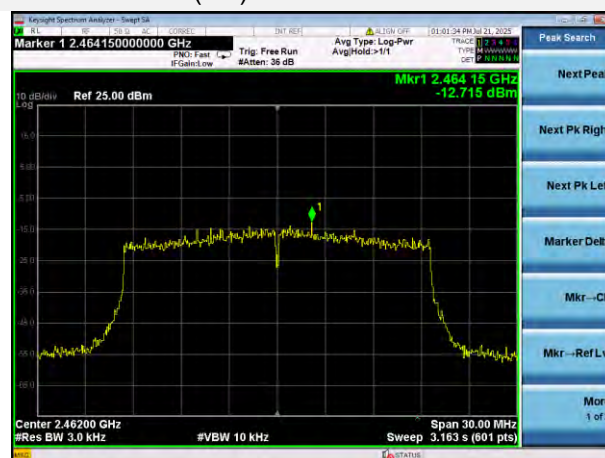
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



SISO-ANT1

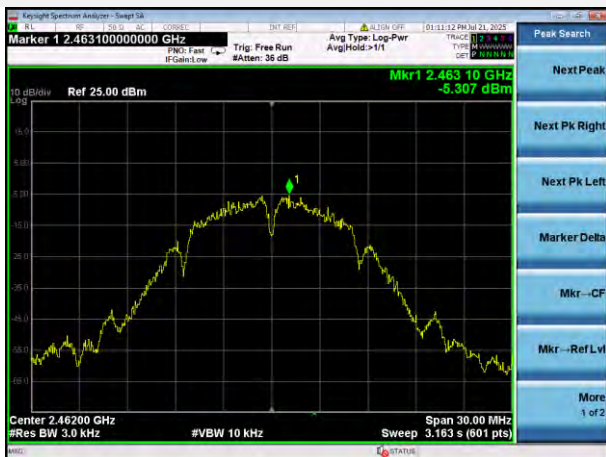
802.11b LOW CHANNEL



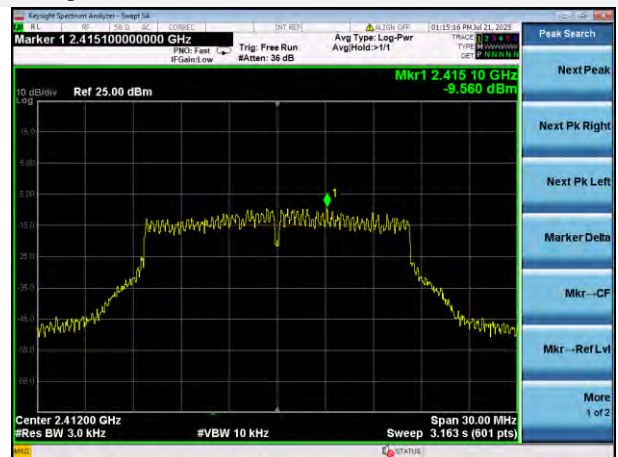
802.11b MIDDLE CHANNEL



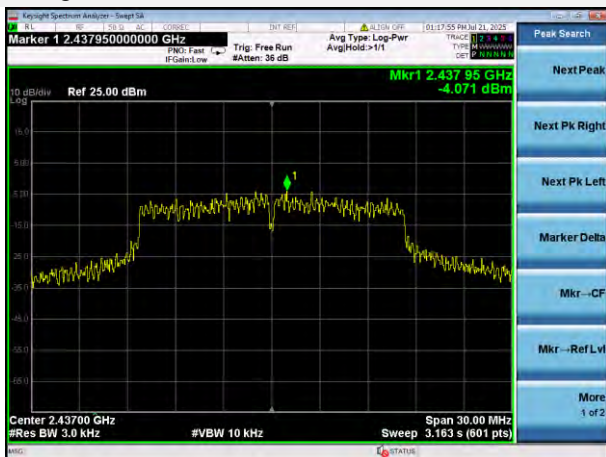
802.11b HIGH CHANNEL



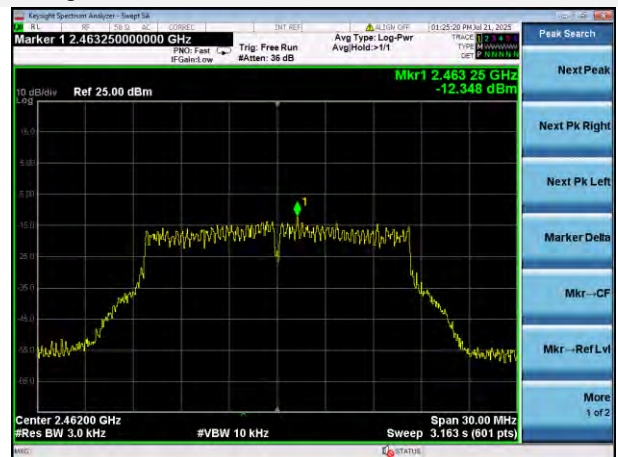
802.11g LOW CHANNEL



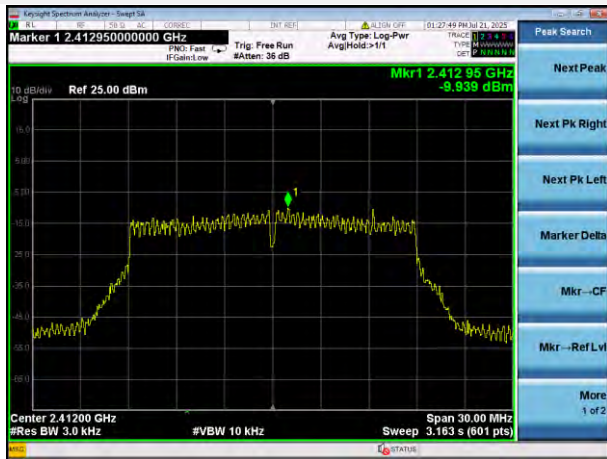
802.11g MIDDLE CHANNEL



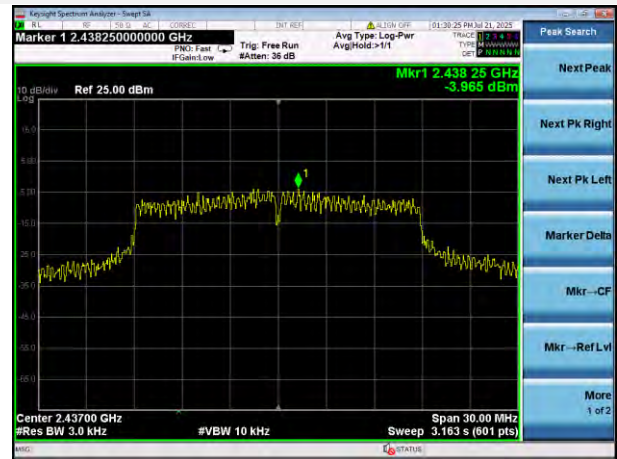
802.11g HIGH CHANNEL



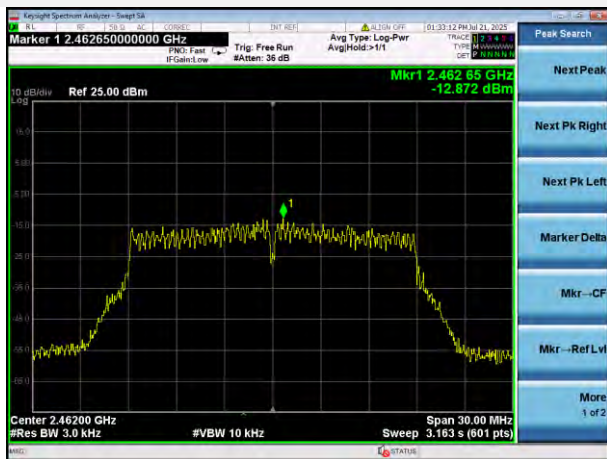
802.11n-20 MHz LOW CHANNEL



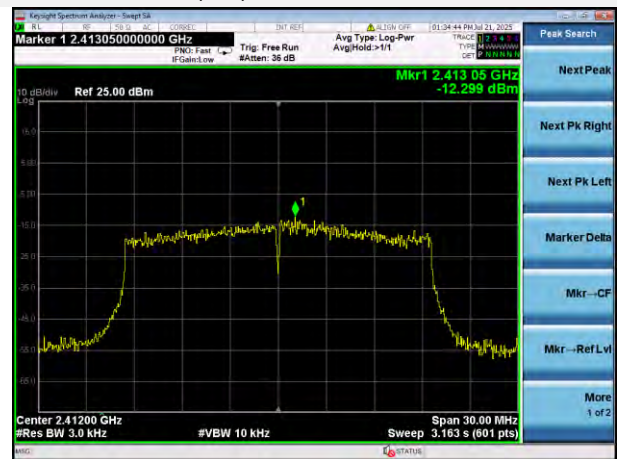
802.11n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



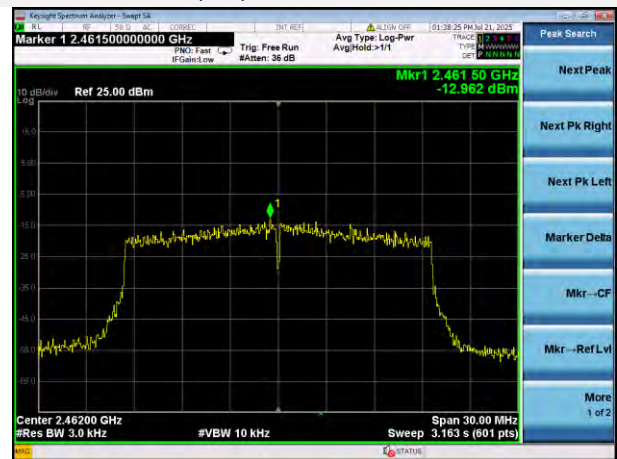
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2570543-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2570543-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2570543-AI.PDF”.

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--END OF REPORT--