

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	1038.299	41.98	74.0	32.02	Peak	53.00	300	Horizontal	Pass
1**	1038.299	32.57	54.0	21.43	AV	53.00	300	Horizontal	Pass
2	1688.396	42.24	74.0	31.76	Peak	102.00	100	Horizontal	Pass
2**	1688.396	32.99	54.0	21.01	AV	102.00	100	Horizontal	Pass
3	5351.614	51.64	74.0	22.36	Peak	232.00	200	Horizontal	Pass
3**	5351.614	42.40	54.0	11.60	AV	232.00	200	Horizontal	Pass
4	6147.601	55.04	74.0	18.97	Peak	88.00	200	Horizontal	Pass
4**	6147.601	43.53	54.0	10.47	AV	88.00	200	Horizontal	Pass
5	12462.170	51.66	74.0	22.34	Peak	182.00	300	Horizontal	Pass
5**	12462.170	42.40	54.0	11.60	AV	182.00	300	Horizontal	Pass
6	17090.546	53.24	74.0	20.76	Peak	155.00	200	Horizontal	Pass
6**	17090.546	42.18	54.0	11.82	AV	155.00	200	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.412	41.21	74.0	32.79	Peak	227.00	400	Vertical	Pass
1**	1335.412	31.57	54.0	22.43	AV	227.00	400	Vertical	Pass
2	3747.002	46.54	74.0	27.46	Peak	266.00	400	Vertical	Pass
2**	3747.002	38.47	54.0	15.53	AV	266.00	400	Vertical	Pass
3	6977.741	51.44	74.0	22.56	Peak	322.00	200	Vertical	Pass
3**	6977.741	42.75	54.0	11.25	AV	322.00	200	Vertical	Pass
4	8817.863	47.13	74.0	26.87	Peak	144.00	300	Vertical	Pass
4**	8817.863	38.37	54.0	15.63	AV	144.00	300	Vertical	Pass
5	12468.116	49.55	74.0	24.45	Peak	71.00	200	Vertical	Pass
5**	12468.116	39.58	54.0	14.42	AV	71.00	200	Vertical	Pass
6	17108.782	51.70	74.0	22.30	Peak	147.00	100	Vertical	Pass
6**	17108.782	39.12	54.0	14.88	AV	147.00	100	Vertical	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1042.542	41.92	74.0	32.09	Peak	345.00	200	Horizontal	Pass
1**	1042.542	32.56	54.0	21.44	AV	345.00	200	Horizontal	Pass
2	1693.455	42.24	74.0	31.76	Peak	72.00	200	Horizontal	Pass
2**	1693.455	32.94	54.0	21.06	AV	72.00	200	Horizontal	Pass
3	5344.852	51.67	74.0	22.33	Peak	292.00	200	Horizontal	Pass
3**	5344.852	42.41	54.0	11.59	AV	292.00	200	Horizontal	Pass
4	6147.474	55.05	74.0	18.95	Peak	207.00	400	Horizontal	Pass
4**	6147.474	43.58	54.0	10.42	AV	207.00	400	Horizontal	Pass
5	12458.865	51.69	74.0	22.31	Peak	85.00	100	Horizontal	Pass
5**	12458.865	42.43	54.0	11.57	AV	85.00	100	Horizontal	Pass
6	17091.544	53.18	74.0	20.82	Peak	306.00	400	Horizontal	Pass
6**	17091.544	42.20	54.0	11.80	AV	306.00	400	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.272	41.36	74.0	32.64	Peak	142.00	100	Vertical	Pass
1**	1335.272	31.92	54.0	22.08	AV	142.00	100	Vertical	Pass
2	3750.152	47.20	74.0	26.80	Peak	13.00	400	Vertical	Pass
2**	3750.152	37.47	54.0	16.53	AV	13.00	400	Vertical	Pass
3	6977.306	50.87	74.0	23.13	Peak	239.00	200	Vertical	Pass
3**	6977.306	42.31	54.0	11.69	AV	239.00	200	Vertical	Pass
4	8815.891	47.29	74.0	26.71	Peak	7.00	200	Vertical	Pass
4**	8815.891	39.17	54.0	14.83	AV	7.00	200	Vertical	Pass
5	12461.544	50.49	74.0	23.51	Peak	62.00	100	Vertical	Pass
5**	12461.544	38.81	54.0	15.19	AV	62.00	100	Vertical	Pass
6	17102.111	52.18	74.0	21.82	Peak	215.00	100	Vertical	Pass
6**	17102.111	37.73	54.0	16.27	AV	215.00	100	Vertical	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1042.287	41.94	74.0	32.06	Peak	292.00	400	Horizontal	Pass
1**	1042.287	32.49	54.0	21.51	AV	292.00	400	Horizontal	Pass
2	1689.828	42.29	74.0	31.72	Peak	256.00	100	Horizontal	Pass
2**	1689.828	32.92	54.0	21.09	AV	256.00	100	Horizontal	Pass
3	5345.597	51.62	74.0	22.38	Peak	20.00	200	Horizontal	Pass
3**	5345.597	42.49	54.0	11.51	AV	20.00	200	Horizontal	Pass
4	6149.980	54.97	74.0	19.03	Peak	330.00	400	Horizontal	Pass
4**	6149.980	43.53	54.0	10.47	AV	330.00	400	Horizontal	Pass
5	12461.049	51.70	74.0	22.30	Peak	205.00	400	Horizontal	Pass
5**	12461.049	42.37	54.0	11.63	AV	205.00	400	Horizontal	Pass
6	17087.378	53.14	74.0	20.86	Peak	140.00	200	Horizontal	Pass
6**	17087.378	42.23	54.0	11.77	AV	140.00	200	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.924	42.06	74.0	31.94	Peak	39.00	400	Vertical	Pass
1**	1331.924	33.05	54.0	20.95	AV	39.00	400	Vertical	Pass
2	3752.392	48.18	74.0	25.82	Peak	358.00	200	Vertical	Pass
2**	3752.392	38.53	54.0	15.47	AV	358.00	200	Vertical	Pass
3	6976.080	53.05	74.0	20.95	Peak	30.00	200	Vertical	Pass
3**	6976.080	42.87	54.0	11.13	AV	30.00	200	Vertical	Pass
4	8818.208	49.03	74.0	24.97	Peak	280.00	200	Vertical	Pass
4**	8818.208	40.21	54.0	13.79	AV	280.00	200	Vertical	Pass
5	12462.963	50.62	74.0	23.38	Peak	215.00	300	Vertical	Pass
5**	12462.963	40.37	54.0	13.63	AV	215.00	300	Vertical	Pass
6	17104.502	52.82	74.0	21.18	Peak	133.00	100	Vertical	Pass
6**	17104.502	39.74	54.0	14.26	AV	133.00	100	Vertical	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1039.155	41.39	74.0	32.61	Peak	355.00	200	Horizontal	Pass
1**	1039.155	31.44	54.0	22.56	AV	355.00	200	Horizontal	Pass
2	1691.960	42.11	74.0	31.89	Peak	71.00	100	Horizontal	Pass
2**	1691.960	31.96	54.0	22.04	AV	71.00	100	Horizontal	Pass
3	5347.782	49.97	74.0	24.03	Peak	244.00	200	Horizontal	Pass
3**	5347.782	41.08	54.0	12.92	AV	244.00	200	Horizontal	Pass
4	6152.817	53.54	74.0	20.46	Peak	211.00	200	Horizontal	Pass
4**	6152.817	42.72	54.0	11.28	AV	211.00	200	Horizontal	Pass
5	12460.465	51.08	74.0	22.92	Peak	293.00	300	Horizontal	Pass
5**	12460.465	42.05	54.0	11.95	AV	293.00	300	Horizontal	Pass
6	17086.647	51.67	74.0	22.33	Peak	70.00	100	Horizontal	Pass
6**	17086.647	40.45	54.0	13.55	AV	70.00	100	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1335.233	42.21	74.0	31.79	Peak	0.00	300	Vertical	Pass
1**	1335.233	32.64	54.0	21.36	AV	0.00	300	Vertical	Pass
2	3746.752	47.12	74.0	26.88	Peak	302.00	400	Vertical	Pass
2**	3746.752	37.99	54.0	16.01	AV	302.00	400	Vertical	Pass
3	6979.391	52.29	74.0	21.71	Peak	5.00	200	Vertical	Pass
3**	6979.391	43.18	54.0	10.82	AV	5.00	200	Vertical	Pass
4	8818.176	47.20	74.0	26.80	Peak	251.00	100	Vertical	Pass
4**	8818.176	39.02	54.0	14.98	AV	251.00	100	Vertical	Pass
5	12465.297	50.26	74.0	23.74	Peak	222.00	100	Vertical	Pass
5**	12465.297	39.97	54.0	14.03	AV	222.00	100	Vertical	Pass
6	17105.302	52.46	74.0	21.54	Peak	30.00	300	Vertical	Pass
6**	17105.302	39.30	54.0	14.70	AV	30.00	300	Vertical	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1041.476	41.35	74.0	32.65	Peak	171.00	200	Horizontal	Pass
1**	1041.476	32.51	54.0	21.49	AV	171.00	200	Horizontal	Pass
2	1689.430	41.96	74.0	32.04	Peak	33.00	100	Horizontal	Pass
2**	1689.430	32.91	54.0	21.09	AV	33.00	100	Horizontal	Pass
3	5347.478	51.20	74.0	22.80	Peak	6.00	200	Horizontal	Pass
3**	5347.478	41.80	54.0	12.20	AV	6.00	200	Horizontal	Pass
4	6155.294	54.70	74.0	19.30	Peak	178.00	400	Horizontal	Pass
4**	6155.294	42.83	54.0	11.17	AV	178.00	400	Horizontal	Pass
5	12462.251	51.37	74.0	22.63	Peak	143.00	400	Horizontal	Pass
5**	12462.251	41.61	54.0	12.39	AV	143.00	400	Horizontal	Pass
6	17084.103	52.60	74.0	21.40	Peak	2.00	300	Horizontal	Pass
6**	17084.103	41.73	54.0	12.27	AV	2.00	300	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.805	42.16	74.0	31.84	Peak	37.00	300	Vertical	Pass
1**	1328.805	33.52	54.0	20.48	AV	37.00	300	Vertical	Pass
2	3747.789	47.70	74.0	26.30	Peak	340.00	400	Vertical	Pass
2**	3747.789	38.82	54.0	15.18	AV	340.00	400	Vertical	Pass
3	6978.272	52.32	74.0	21.68	Peak	151.00	200	Vertical	Pass
3**	6978.272	43.74	54.0	10.26	AV	151.00	200	Vertical	Pass
4	8817.641	48.48	74.0	25.52	Peak	205.00	100	Vertical	Pass
4**	8817.641	39.59	54.0	14.41	AV	205.00	100	Vertical	Pass
5	12463.937	50.96	74.0	23.04	Peak	325.00	400	Vertical	Pass
5**	12463.937	40.04	54.0	13.96	AV	325.00	400	Vertical	Pass
6	17107.507	52.79	74.0	21.21	Peak	20.00	400	Vertical	Pass
6**	17107.507	39.60	54.0	14.40	AV	20.00	400	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 C63.10-2020, 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: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.001	58.91	74.0	15.09	Peak	59.00	100	Horizontal	Pass
1**	2385.001	48.46	54.0	5.54	AV	59.00	100	Horizontal	Pass
2	2390.000	54.76	74.0	19.24	Peak	138.00	100	Horizontal	Pass
2**	2390.000	44.21	54.0	9.79	AV	138.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.54	74.0	18.46	Peak	255.00	200	Horizontal	Pass
1**	2483.500	47.78	54.0	6.22	AV	255.00	200	Horizontal	Pass
2	2487.779	57.83	74.0	16.17	Peak	212.00	200	Horizontal	Pass
2**	2487.779	47.09	54.0	6.91	AV	212.00	200	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.164	56.56	74.0	17.44	Peak	7.00	300	Horizontal	Pass
1**	2384.164	49.46	54.0	4.54	AV	7.00	300	Horizontal	Pass
2	2390.000	56.43	74.0	17.57	Peak	356.00	200	Horizontal	Pass
2**	2390.000	44.32	54.0	9.68	AV	356.00	200	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	56.44	74.0	17.56	Peak	344.00	200	Horizontal	Pass
1**	2483.500	47.63	54.0	6.37	AV	344.00	200	Horizontal	Pass
2	2486.456	57.85	74.0	16.15	Peak	23.00	200	Horizontal	Pass
2**	2486.456	46.67	54.0	7.33	AV	23.00	200	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.931	60.21	74.0	13.79	Peak	282.00	300	Horizontal	Pass
1**	2385.931	48.19	54.0	5.81	AV	282.00	300	Horizontal	Pass
2	2390.000	53.4	74.0	20.60	Peak	247.00	100	Horizontal	Pass
2**	2390.000	43.82	54.0	10.18	AV	247.00	100	Horizontal	Pass

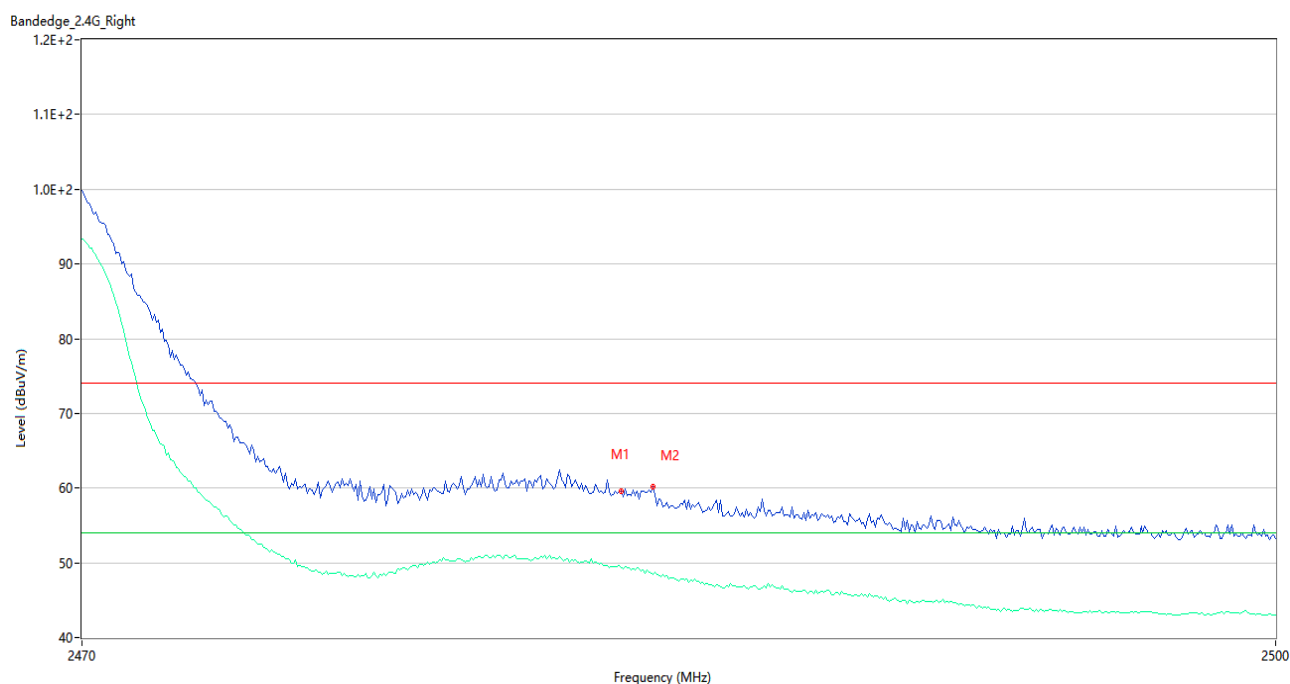
802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.27	74.0	16.73	Peak	171.00	100	Horizontal	Pass
1**	2483.500	44.87	54.0	9.13	AV	171.00	100	Horizontal	Pass
2	2486.629	59.54	74.0	14.46	Peak	154.00	200	Horizontal	Pass
2**	2486.629	46.09	54.0	7.91	AV	154.00	200	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.325	57.27	74.0	16.73	Peak	105.00	100	Horizontal	Pass
1**	2385.325	46.76	54.0	7.24	AV	105.00	100	Horizontal	Pass
2	2390.000	54.35	74.0	19.65	Peak	71.00	100	Horizontal	Pass
2**	2390.000	44.63	54.0	9.37	AV	71.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.60	74.0	14.40	Peak	293.00	100	Horizontal	Pass
1**	2483.500	49.49	54.0	4.51	AV	293.00	100	Horizontal	Pass
2	2484.300	60.17	74.0	13.83	Peak	285.00	200	Horizontal	Pass
2**	2484.300	48.44	54.0	5.56	AV	285.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-4.998	8
Middle	-6.54	8
High	-7.342	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.722	8
Middle	-8.374	8
High	-10.155	8

802.11n-20 MHz Mode:

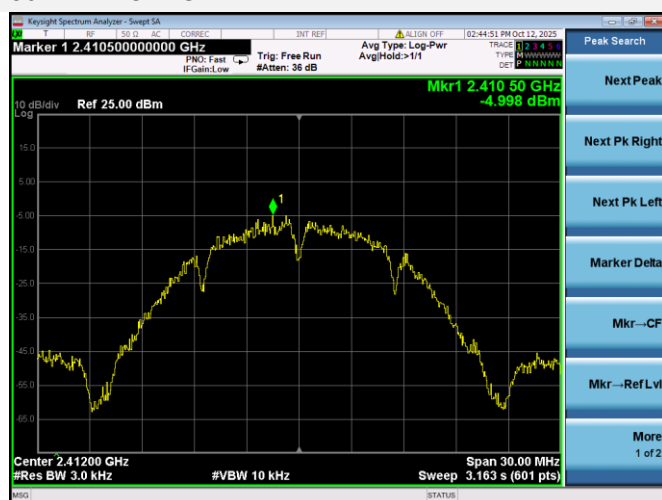
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.332	8
Middle	-10.243	8
High	-8.988	8

802.11n-40 MHz Mode:

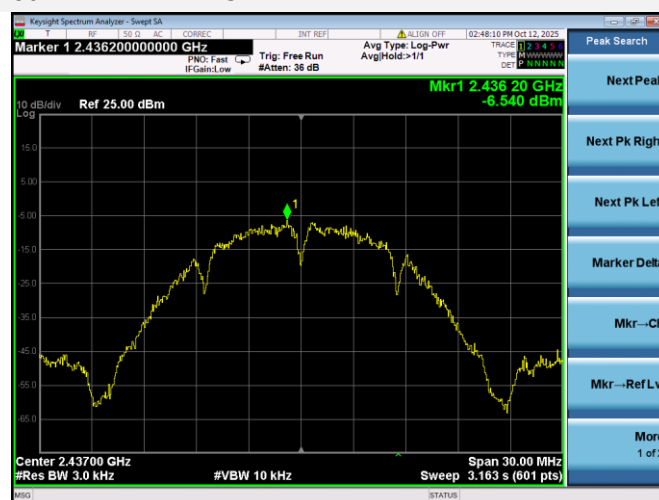
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.878	8
Middle	-12.854	8
High	-12.081	8

Test Plots

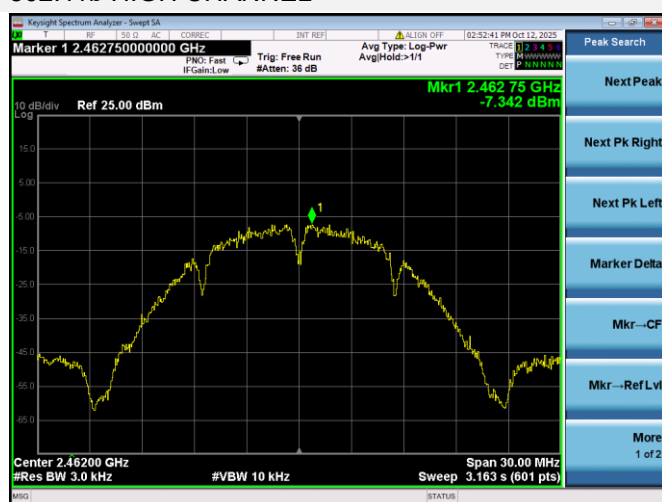
802.11b LOW CHANNEL



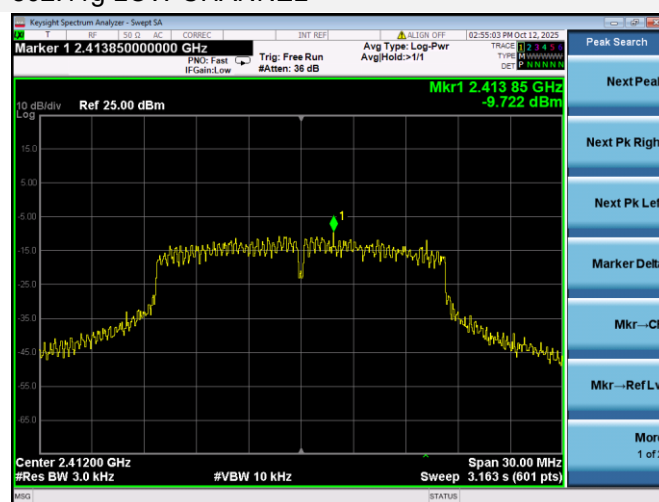
802.11b MIDDLE CHANNEL



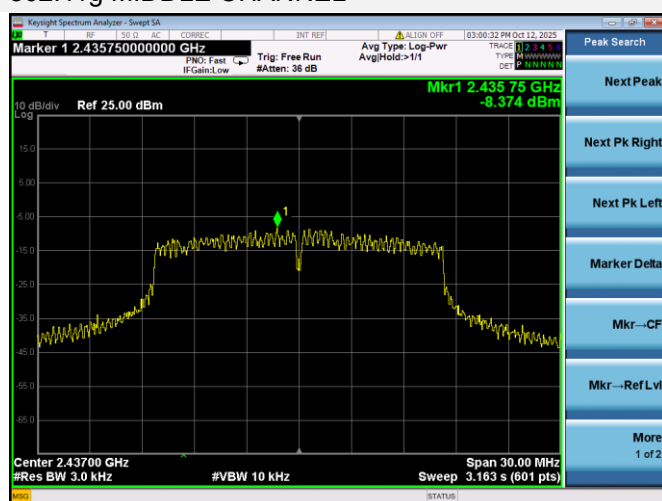
802.11b HIGH CHANNEL



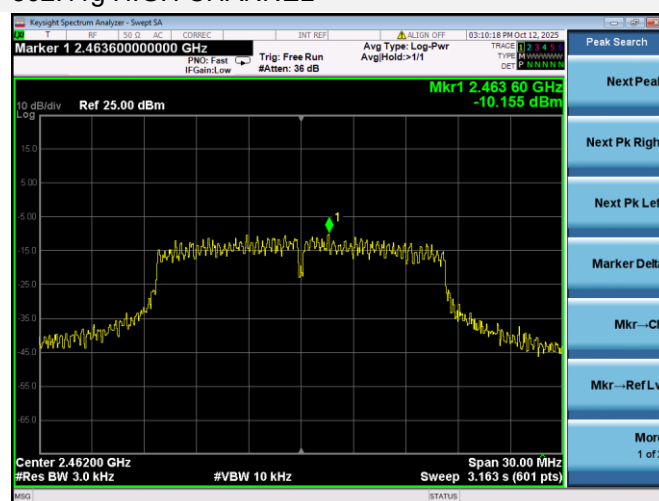
802.11g LOW CHANNEL



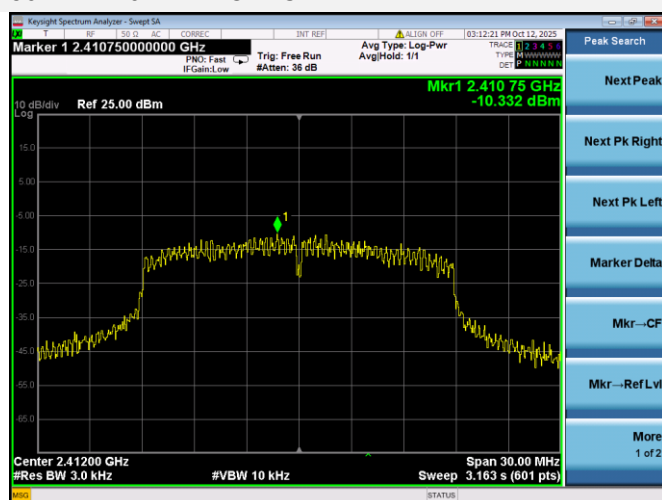
802.11g MIDDLE CHANNEL



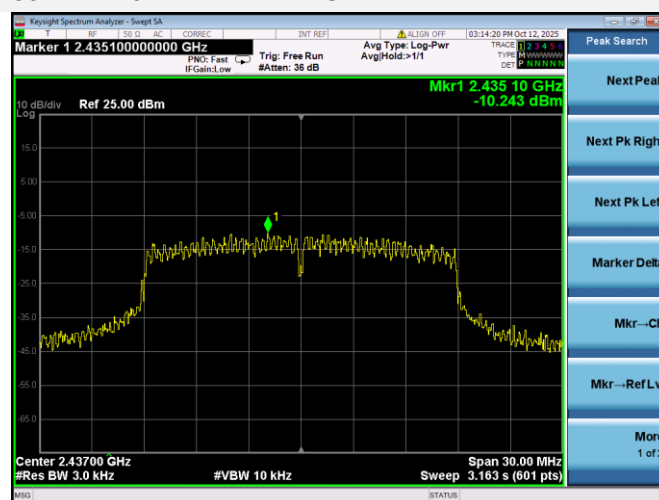
802.11g HIGH CHANNEL



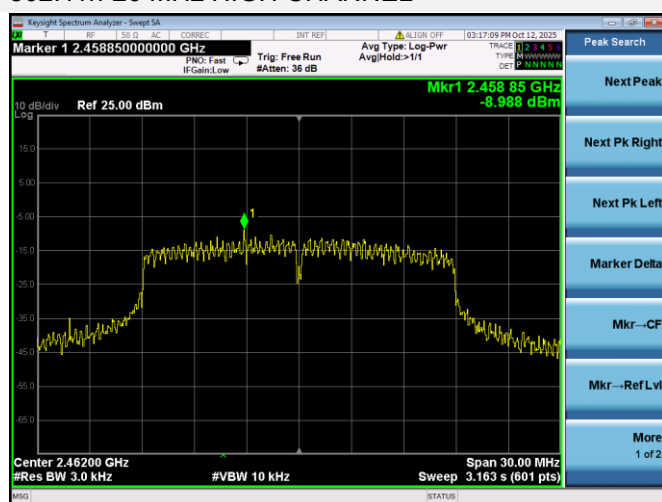
802.11n-20 MHz LOW CHANNEL



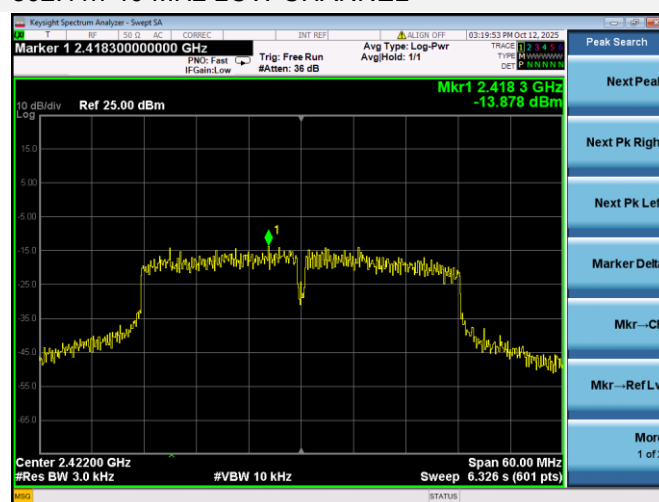
802.11n-20 MHz MIDDLE CHANNEL



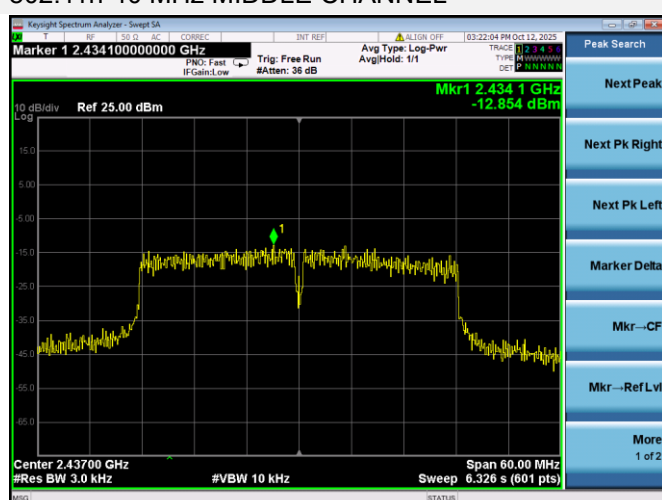
802.11n-20 MHz HIGH CHANNEL



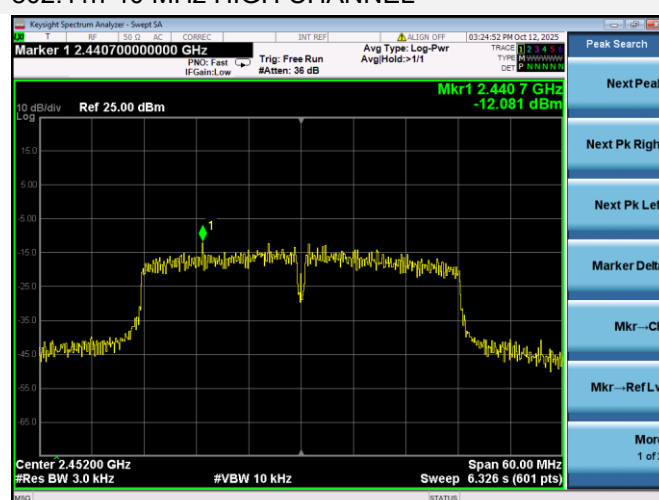
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2591189-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2591189-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2591189-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
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--END OF REPORT--