

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.996	44.31	74.0	29.69	Peak	102.00	200	Horizontal	Pass
1**	1330.996	35.51	54.0	18.49	AV	102.00	200	Horizontal	Pass
2	2996.880	47.29	74.0	26.71	Peak	320.00	100	Horizontal	Pass
2**	2996.880	40.44	54.0	13.56	AV	320.00	100	Horizontal	Pass
3	4931.517	52.56	74.0	21.44	Peak	116.00	200	Horizontal	Pass
3**	4931.517	39.86	54.0	14.14	AV	116.00	200	Horizontal	Pass
4	6806.761	53.78	74.0	20.22	Peak	159.00	400	Horizontal	Pass
4**	6806.761	46.43	54.0	7.57	AV	159.00	400	Horizontal	Pass
5	13413.107	54.31	74.0	19.69	Peak	244.00	300	Horizontal	Pass
5**	13413.107	48.32	54.0	5.68	AV	244.00	300	Horizontal	Pass
6	17425.217	54.35	74.0	19.65	Peak	276.00	200	Horizontal	Pass
6**	17425.217	49.42	54.0	4.58	AV	276.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.267	43.40	74.0	30.60	Peak	274.00	200	Vertical	Pass
1**	1332.267	39.85	54.0	14.15	AV	274.00	200	Vertical	Pass
2	2982.910	49.08	74.0	24.92	Peak	349.00	100	Vertical	Pass
2**	2982.910	38.81	54.0	15.19	AV	349.00	100	Vertical	Pass
3	4858.033	47.16	74.0	26.84	Peak	78.00	200	Vertical	Pass
3**	4858.033	43.53	54.0	10.47	AV	78.00	200	Vertical	Pass
4	6604.328	56.85	74.0	17.15	Peak	228.00	200	Vertical	Pass
4**	6604.328	46.82	54.0	7.18	AV	228.00	200	Vertical	Pass
5	13432.489	54.06	74.0	19.94	Peak	130.00	400	Vertical	Pass
5**	13432.489	45.43	54.0	8.57	AV	130.00	400	Vertical	Pass
6	17413.487	59.61	74.0	14.39	Peak	217.00	300	Vertical	Pass
6**	17413.487	47.73	54.0	6.27	AV	217.00	300	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 C63.10-2020, 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.

Note⁴: 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	2385.219	59.56	74.0	14.44	Peak	248.00	300	Horizontal	Pass
1**	2385.219	46.84	54.0	7.16	AV	248.00	300	Horizontal	Pass
2	2390.000	55.61	74.0	18.39	Peak	235.00	100	Horizontal	Pass
2**	2390.000	43.62	54.0	10.38	AV	235.00	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	57.32	74.0	16.68	Peak	329.00	200	Horizontal	Pass
1**	2483.500	47.41	54.0	6.59	AV	329.00	200	Horizontal	Pass
2	2486.682	60.22	74.0	13.78	Peak	87.00	300	Horizontal	Pass
2**	2486.682	47.28	54.0	6.72	AV	87.00	300	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	2386.270	59.91	74.0	14.09	Peak	109.00	100	Horizontal	Pass
1**	2386.270	46.33	54.0	7.67	AV	109.00	100	Horizontal	Pass
2	2390.000	53.42	74.0	20.58	Peak	296.00	300	Horizontal	Pass
2**	2390.000	46.6	54.0	7.40	AV	296.00	300	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	56.14	74.0	17.86	Peak	163.00	300	Horizontal	Pass
1**	2483.500	46.6	54.0	7.40	AV	163.00	300	Horizontal	Pass
2	2488.623	58.33	74.0	15.67	Peak	220.00	100	Horizontal	Pass
2**	2488.623	46.8	54.0	7.20	AV	220.00	100	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	2386.170	59.57	74.0	14.43	Peak	53.00	100	Horizontal	Pass
1**	2386.170	48.69	54.0	5.31	AV	53.00	100	Horizontal	Pass
2	2390.000	53.63	74.0	20.37	Peak	79.00	300	Horizontal	Pass
2**	2390.000	47.02	54.0	6.98	AV	79.00	300	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	54.54	74.0	19.46	Peak	53.00	300	Horizontal	Pass
1**	2483.500	46.1	54.0	7.90	AV	53.00	300	Horizontal	Pass
2	2488.393	57.62	74.0	16.38	Peak	312.00	300	Horizontal	Pass
2**	2488.393	45.74	54.0	8.26	AV	312.00	300	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	2383.660	57.49	74.0	16.51	Peak	128.00	200	Horizontal	Pass
1**	2383.660	46.91	54.0	7.09	AV	128.00	200	Horizontal	Pass
2	2390.000	56.73	74.0	17.27	Peak	41.00	100	Horizontal	Pass
2**	2390.000	46.03	54.0	7.97	AV	41.00	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	57.32	74.0	16.68	Peak	103.00	200	Horizontal	Pass
1**	2483.500	47.79	54.0	6.21	AV	103.00	200	Horizontal	Pass
2	2487.211	56.82	74.0	17.18	Peak	48.00	200	Horizontal	Pass
2**	2487.211	48.04	54.0	5.96	AV	48.00	200	Horizontal	Pass

A.8 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.785	8
Middle	-11.253	8
High	-9.408	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.525	8
Middle	-14.435	8
High	-14.615	8

802.11n-20 MHz Mode:

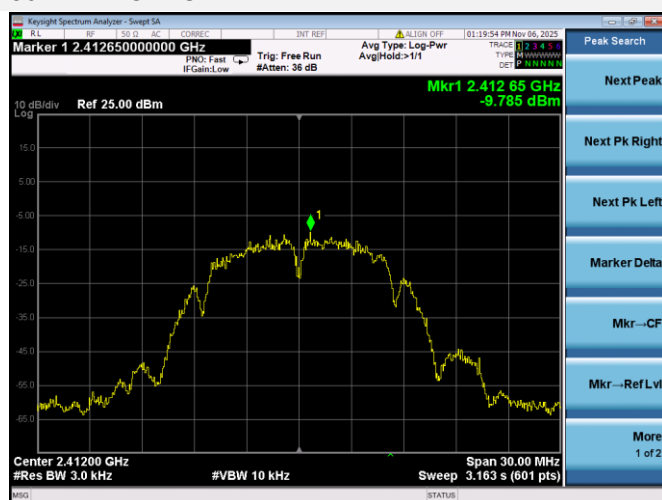
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.497	8
Middle	-13.657	8
High	-13.482	8

802.11n-40 MHz Mode:

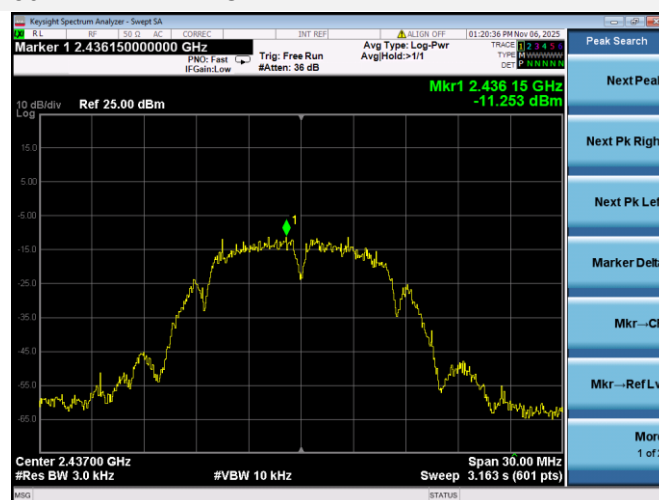
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.059	8
Middle	-14.998	8
High	-14.979	8

Test Plots

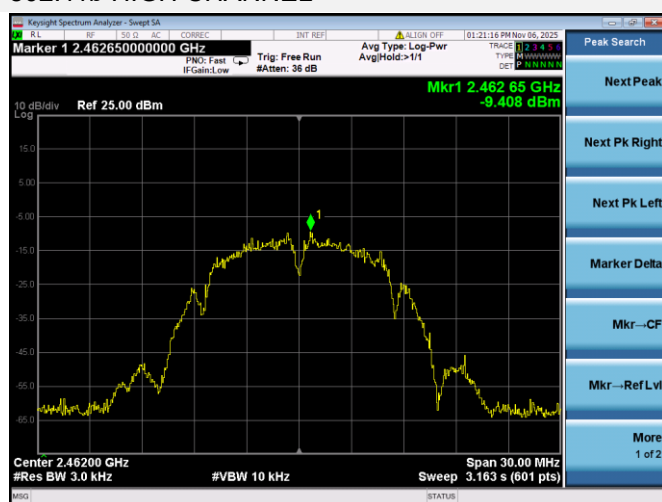
802.11b LOW CHANNEL



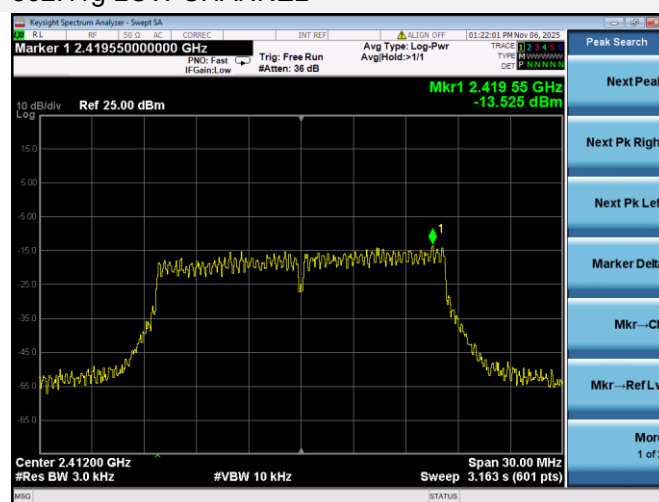
802.11b MIDDLE CHANNEL



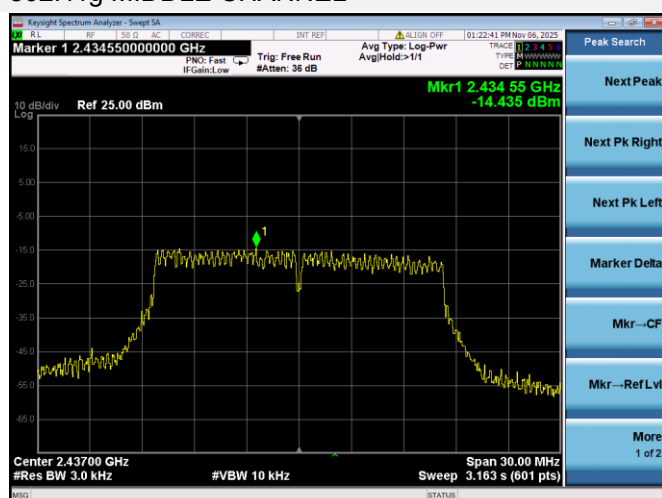
802.11b HIGH CHANNEL



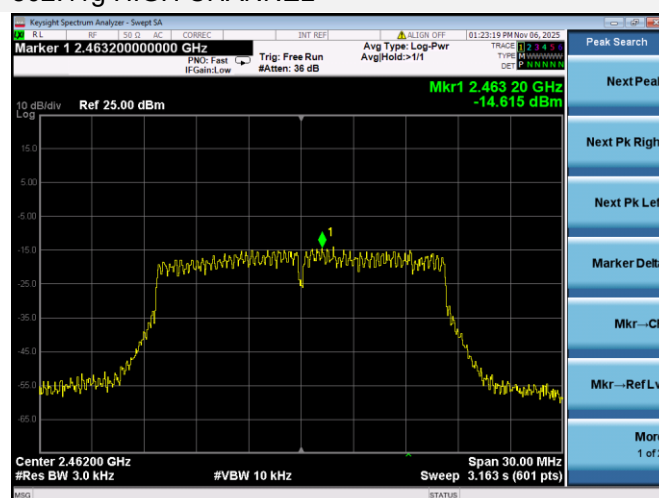
802.11g LOW CHANNEL



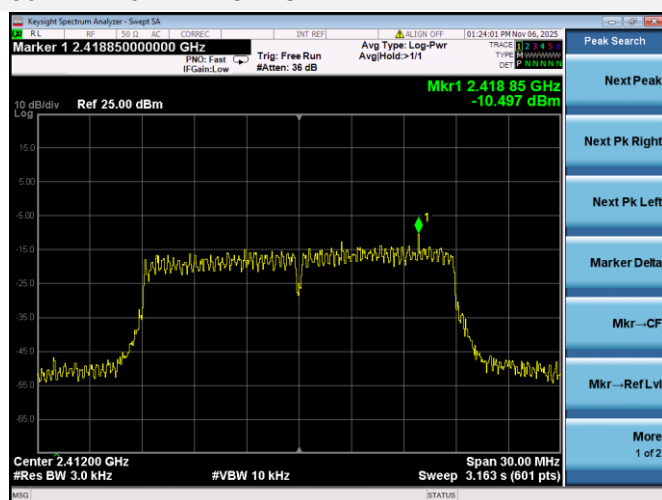
802.11g MIDDLE CHANNEL



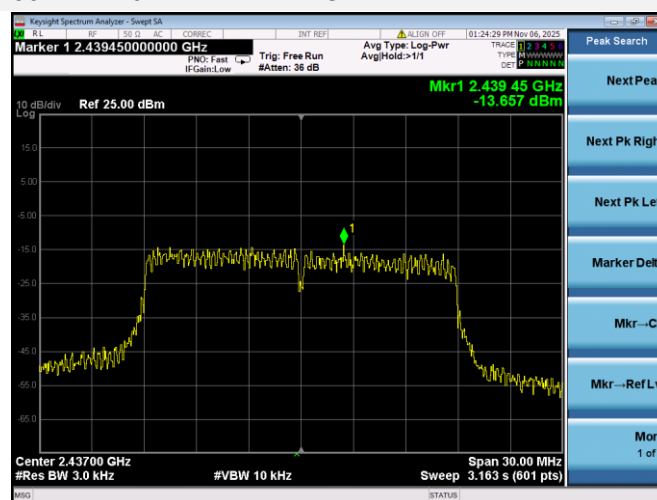
802.11g HIGH CHANNEL



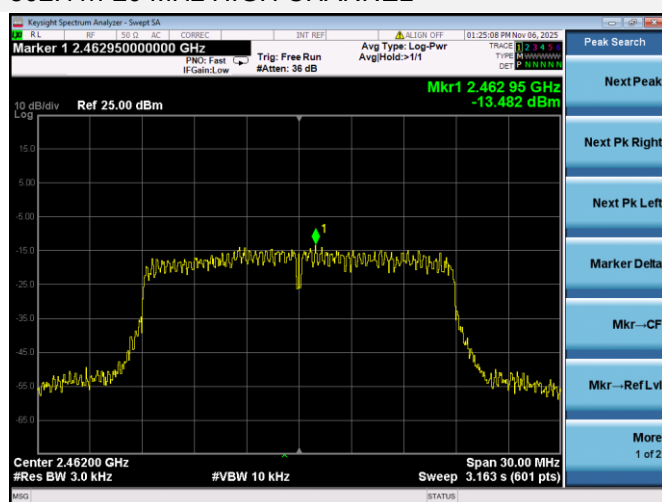
802.11n-20 MHz LOW CHANNEL



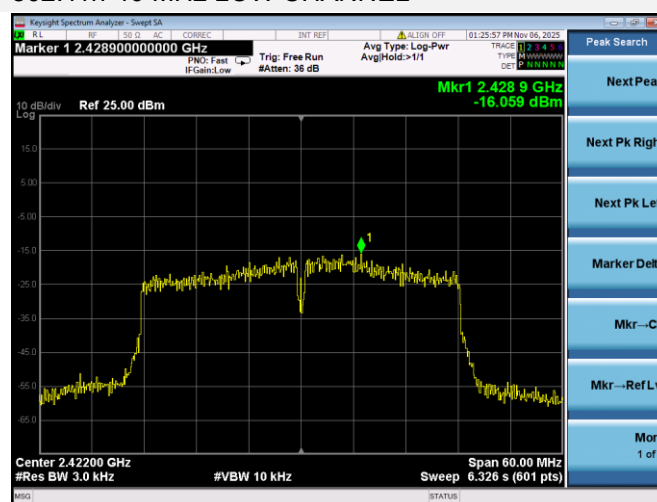
802.11n-20 MHz MIDDLE CHANNEL



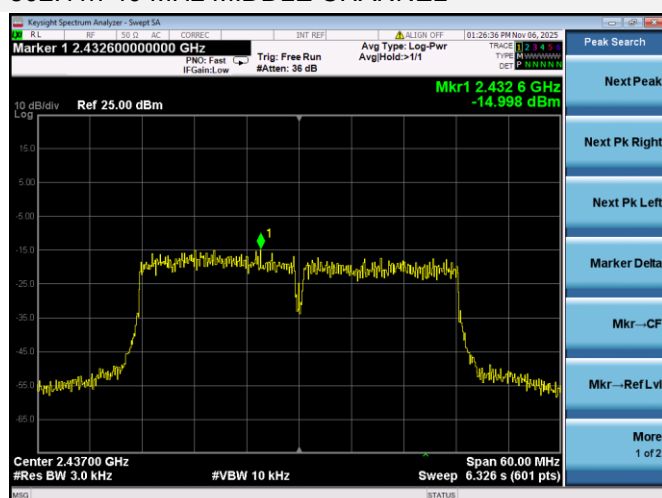
802.11n-20 MHz HIGH CHANNEL



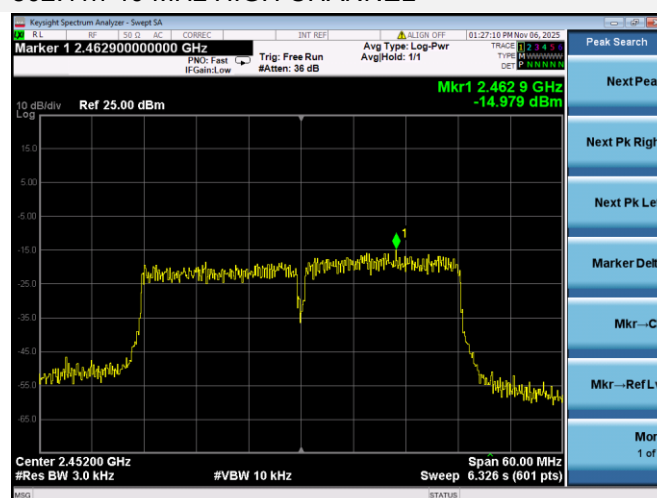
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2590777-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2590777-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2590777-AI.PDF”.

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