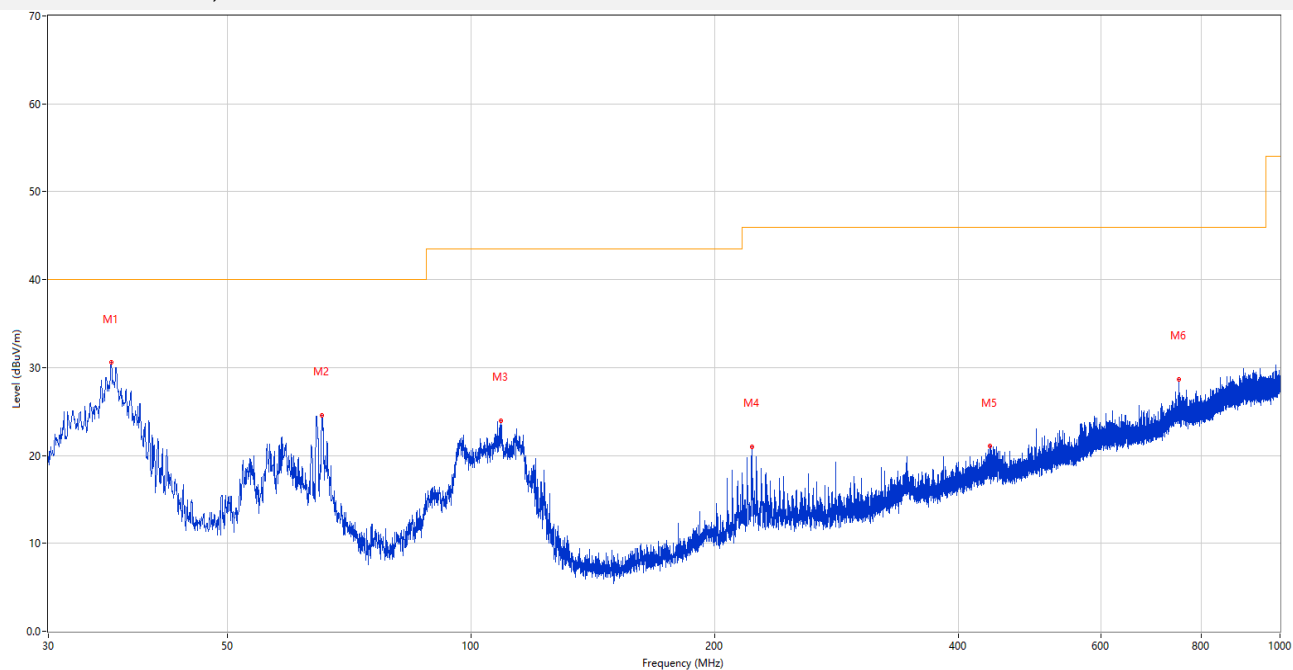


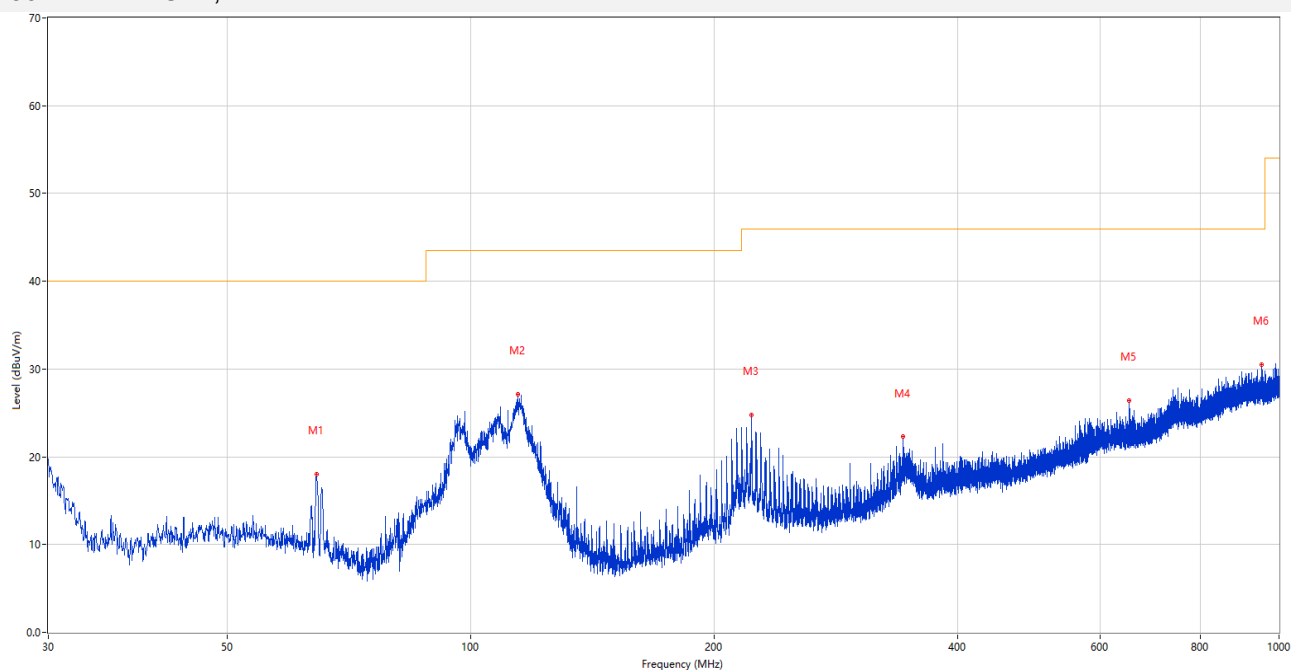
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.917	30.55	-27.52	40.0	9.45	Peak	0.00	100	Vertical	Pass
2	65.405	24.56	-27.62	40.0	15.44	Peak	334.00	100	Vertical	Pass
3	108.910	23.98	-26.71	43.5	19.52	Peak	303.00	100	Vertical	Pass
4	222.206	20.95	-25.78	46.0	25.05	Peak	360.00	200	Vertical	Pass
5	438.176	21.04	-20.10	46.0	24.96	Peak	138.00	200	Vertical	Pass
6	749.982	28.62	-12.62	46.0	17.38	Peak	39.00	200	Vertical	Pass

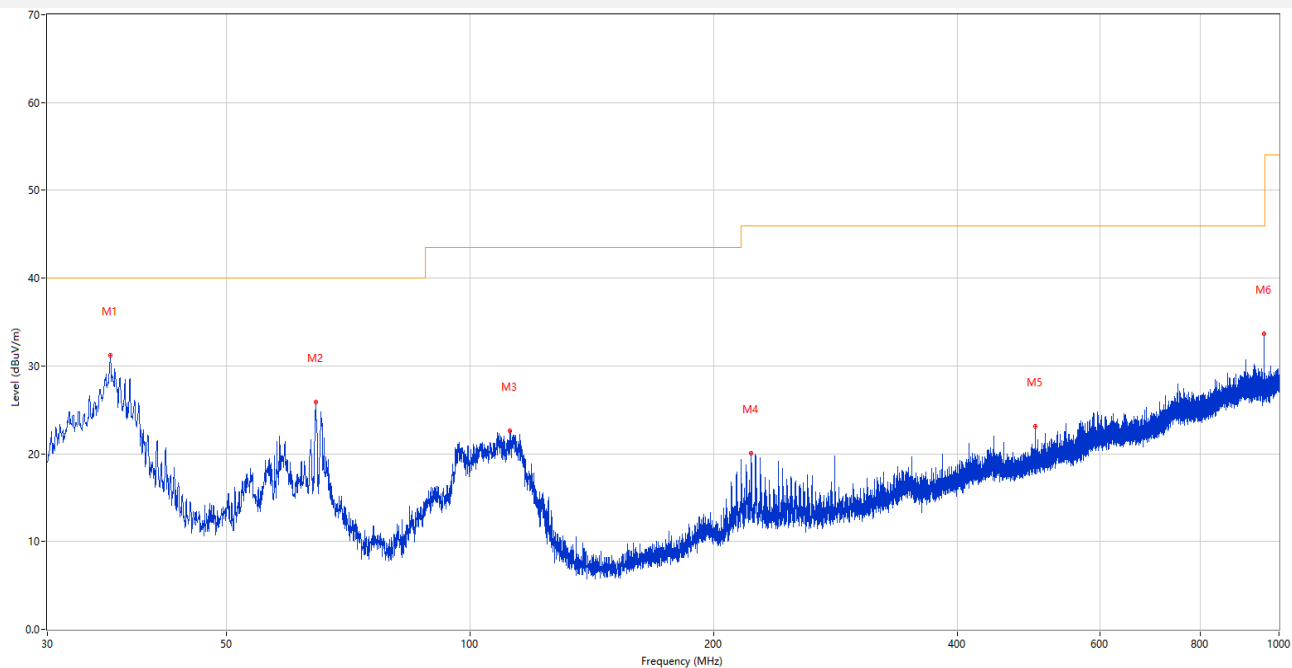
Aux. Antenna

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	64.435	17.99	-27.31	40.0	22.01	Peak	343.00	200	Horizontal	Pass
2	114.244	27.17	-27.31	43.5	16.33	Peak	0.00	200	Horizontal	Pass
3	222.303	24.76	-25.77	46.0	21.24	Peak	348.00	100	Horizontal	Pass
4	342.486	22.27	-22.06	46.0	23.73	Peak	196.00	100	Horizontal	Pass
5	652.546	26.43	-14.92	46.0	19.57	Peak	0.00	200	Horizontal	Pass
6	951.258	30.47	-9.62	46.0	15.53	Peak	360.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.868	31.20	-27.53	40.0	8.80	Peak	360.00	100	Vertical	Pass
2	64.386	25.94	-27.29	40.0	14.06	Peak	360.00	100	Vertical	Pass
3	112.062	22.63	-27.01	43.5	20.87	Peak	83.00	200	Vertical	Pass
4	222.303	20.07	-25.77	46.0	25.93	Peak	15.00	200	Vertical	Pass
5	500.014	23.15	-18.52	46.0	22.85	Peak	301.00	100	Vertical	Pass
6	958.338	33.70	-9.52	46.0	12.30	Peak	200.00	100	Vertical	Pass

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

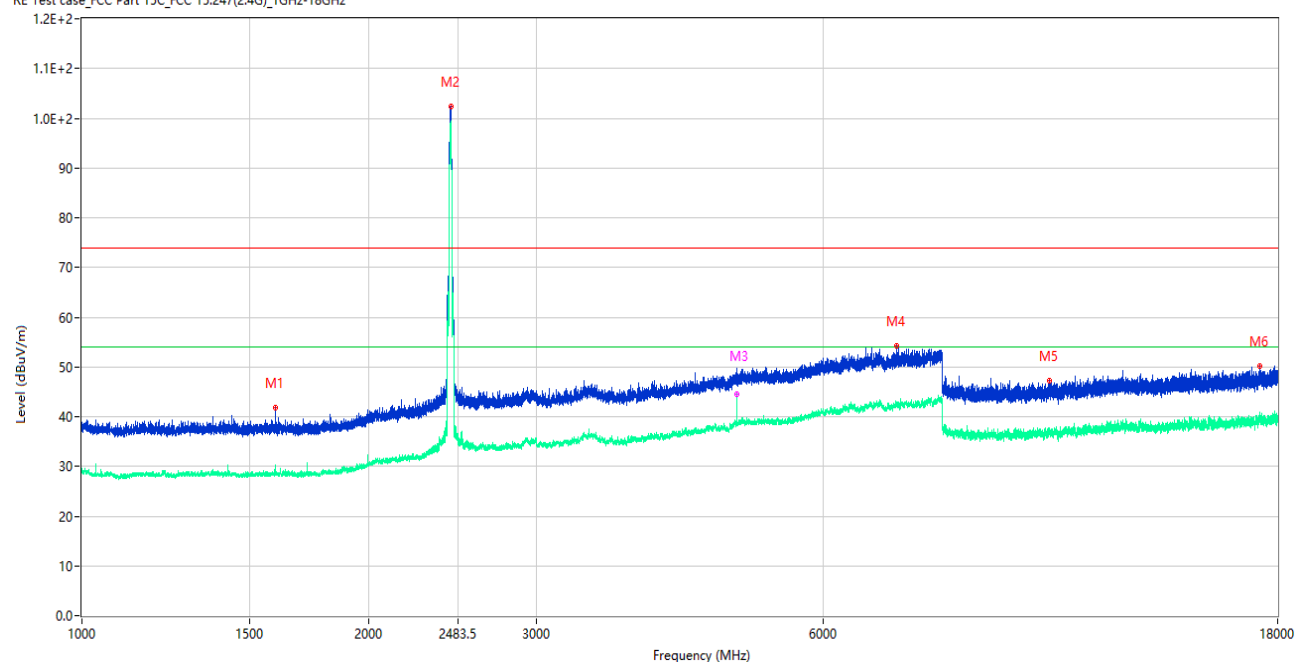
Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: All the configurations were pre tested, only the worst configuration has been reported in this report.

Main Antenna

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

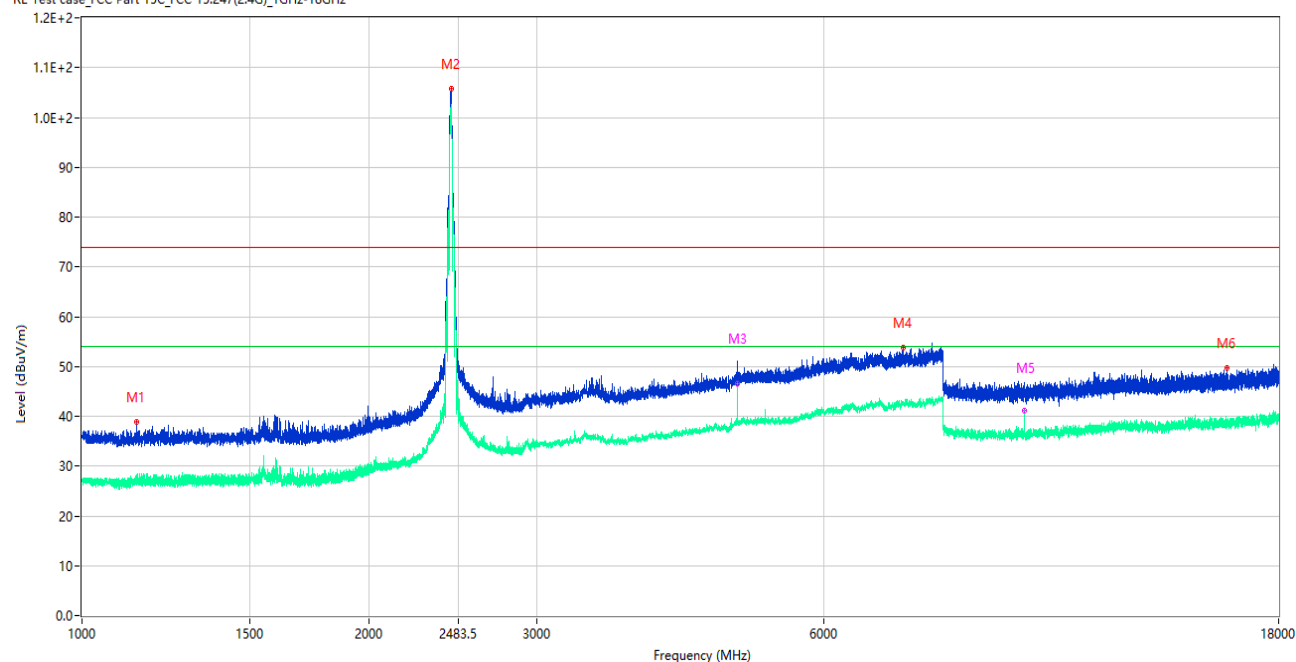
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.250	41.86	-16.24	74.0	32.14	Peak	358.00	150	Horizontal	Pass
1**	1596.250	28.79	-16.24	54.0	25.21	AV	358.00	150	Horizontal	Pass
2	2438.250	102.40	-12.38	74.0	-28.40	Peak	32.00	150	Horizontal	N/A
2**	2438.250	99.49	-12.38	54.0	-45.49	AV	32.00	150	Horizontal	N/A
3	4874.500	49.06	-2.25	74.0	24.94	Peak	40.00	150	Horizontal	Pass
3**	4874.500	44.51	-2.25	54.0	9.49	AV	40.00	150	Horizontal	Pass
4	7166.500	54.19	0.00	74.0	19.81	Peak	360.00	150	Horizontal	Pass
4**	7166.500	42.50	0.00	54.0	11.50	AV	360.00	150	Horizontal	Pass
5	10365.500	47.31	-3.16	74.0	26.69	Peak	11.00	150	Horizontal	Pass
5**	10365.500	36.77	-3.16	54.0	17.23	AV	11.00	150	Horizontal	Pass
6	17249.499	50.12	-0.60	74.0	23.88	Peak	245.00	150	Horizontal	Pass
6**	17249.499	40.10	-0.60	54.0	13.90	AV	245.00	150	Horizontal	Pass

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

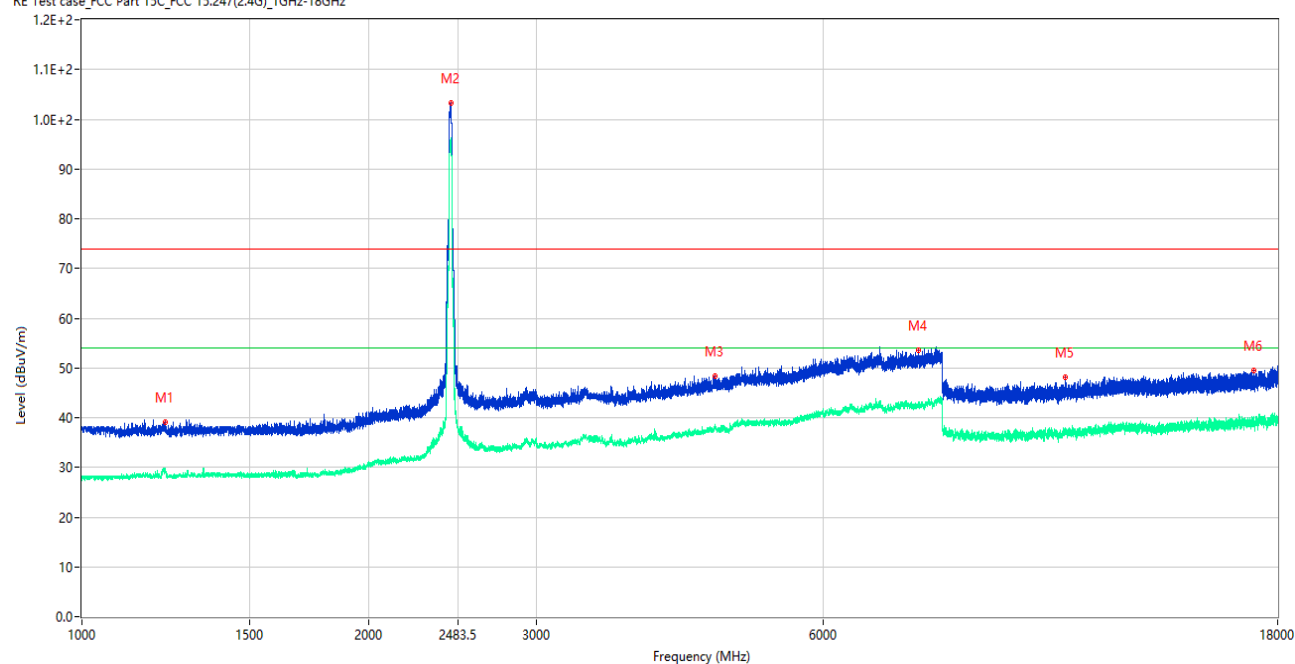
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1142.000	38.78	-15.57	74.0	35.22	Peak	360.00	150	Vertical	Pass
1**	1142.000	26.52	-15.57	54.0	27.48	AV	360.00	150	Vertical	Pass
2	2438.500	105.74	-12.37	74.0	-31.74	Peak	15.00	150	Vertical	N/A
2**	2438.500	102.48	-12.37	54.0	-48.48	AV	15.00	150	Vertical	N/A
3	4874.500	48.14	-2.25	74.0	25.86	Peak	0.00	150	Vertical	Pass
3**	4874.500	42.49	-2.25	54.0	11.51	AV	0.00	150	Vertical	Pass
4	7275.500	53.88	0.34	74.0	20.12	Peak	60.00	150	Vertical	Pass
4**	7275.500	42.54	0.34	54.0	11.46	AV	60.00	150	Vertical	Pass
5	9748.500	46.35	-3.75	74.0	27.65	Peak	147.00	150	Vertical	Pass
5**	9748.500	41.06	-3.75	54.0	12.94	AV	147.00	150	Vertical	Pass
6	15890.500	49.72	-1.60	74.0	24.28	Peak	264.00	150	Vertical	Pass
6**	15890.500	38.36	-1.60	54.0	15.64	AV	264.00	150	Vertical	Pass

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

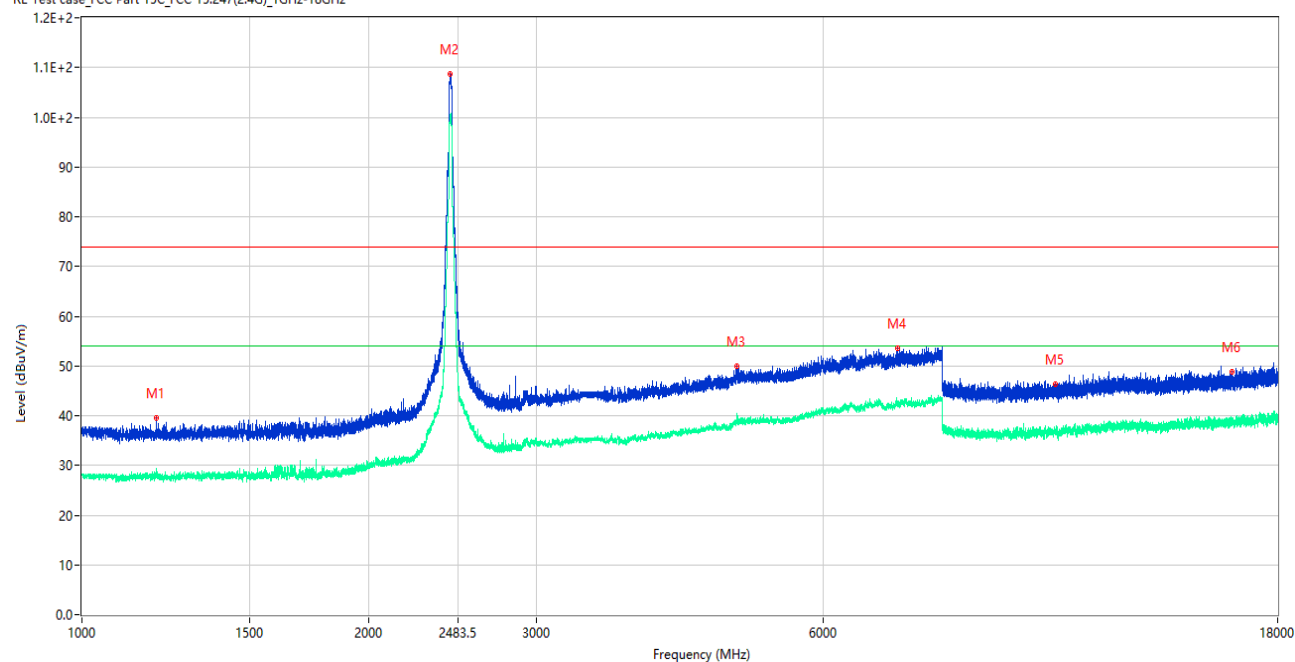
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1222.250	39.04	-15.99	74.0	34.96	Peak	220.00	150	Horizontal	Pass
1**	1222.250	29.13	-15.99	54.0	24.87	AV	220.00	150	Horizontal	Pass
2	2439.750	103.30	-12.37	74.0	-29.30	Peak	29.00	150	Horizontal	N/A
2**	2439.750	95.79	-12.37	54.0	-41.79	AV	29.00	150	Horizontal	N/A
3	4617.000	48.38	-3.06	74.0	25.62	Peak	301.00	150	Horizontal	Pass
3**	4617.000	37.95	-3.06	54.0	16.05	AV	301.00	150	Horizontal	Pass
4	7554.500	53.56	0.86	74.0	20.44	Peak	22.00	150	Horizontal	Pass
4**	7554.500	42.67	0.86	54.0	11.33	AV	22.00	150	Horizontal	Pass
5	10781.500	48.20	-3.02	74.0	25.80	Peak	176.00	150	Horizontal	Pass
5**	10781.500	37.73	-3.02	54.0	16.27	AV	176.00	150	Horizontal	Pass
6	17007.000	49.45	-1.13	74.0	24.55	Peak	236.00	150	Horizontal	Pass
6**	17007.000	39.15	-1.13	54.0	14.85	AV	236.00	150	Horizontal	Pass

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

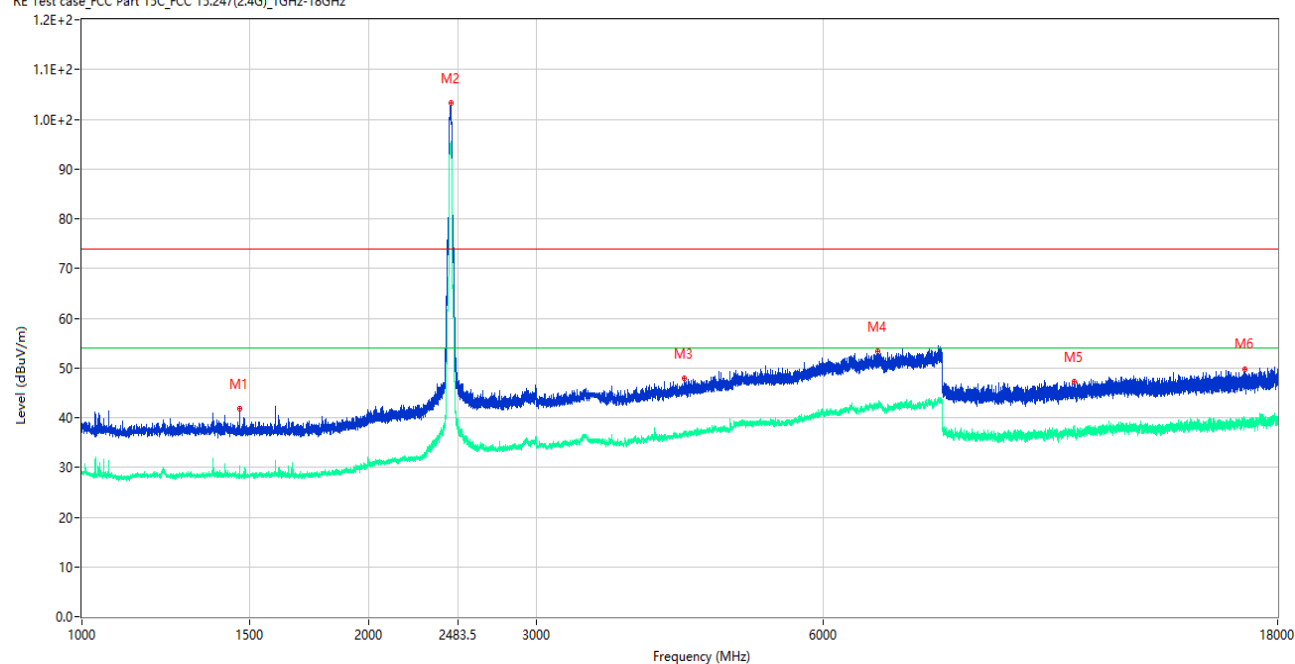
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.750	39.46	-15.73	74.0	34.54	Peak	265.00	150	Vertical	Pass
1**	1197.750	28.78	-15.73	54.0	25.22	AV	265.00	150	Vertical	Pass
2	2434.000	108.67	-12.32	74.0	-34.67	Peak	0.00	150	Vertical	N/A
2**	2434.000	99.36	-12.32	54.0	-45.36	AV	0.00	150	Vertical	N/A
3	4864.500	49.93	-2.10	74.0	24.07	Peak	360.00	150	Vertical	Pass
3**	4864.500	38.47	-2.10	54.0	15.53	AV	360.00	150	Vertical	Pass
4	7175.500	53.49	0.18	74.0	20.51	Peak	309.00	150	Vertical	Pass
4**	7175.500	42.51	0.18	54.0	11.49	AV	309.00	150	Vertical	Pass
5	10513.000	46.29	-3.52	74.0	27.71	Peak	0.00	150	Vertical	Pass
5**	10513.000	36.43	-3.52	54.0	17.57	AV	0.00	150	Vertical	Pass
6	16117.000	48.80	-1.45	74.0	25.20	Peak	0.00	150	Vertical	Pass
6**	16117.000	38.24	-1.45	54.0	15.76	AV	0.00	150	Vertical	Pass

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

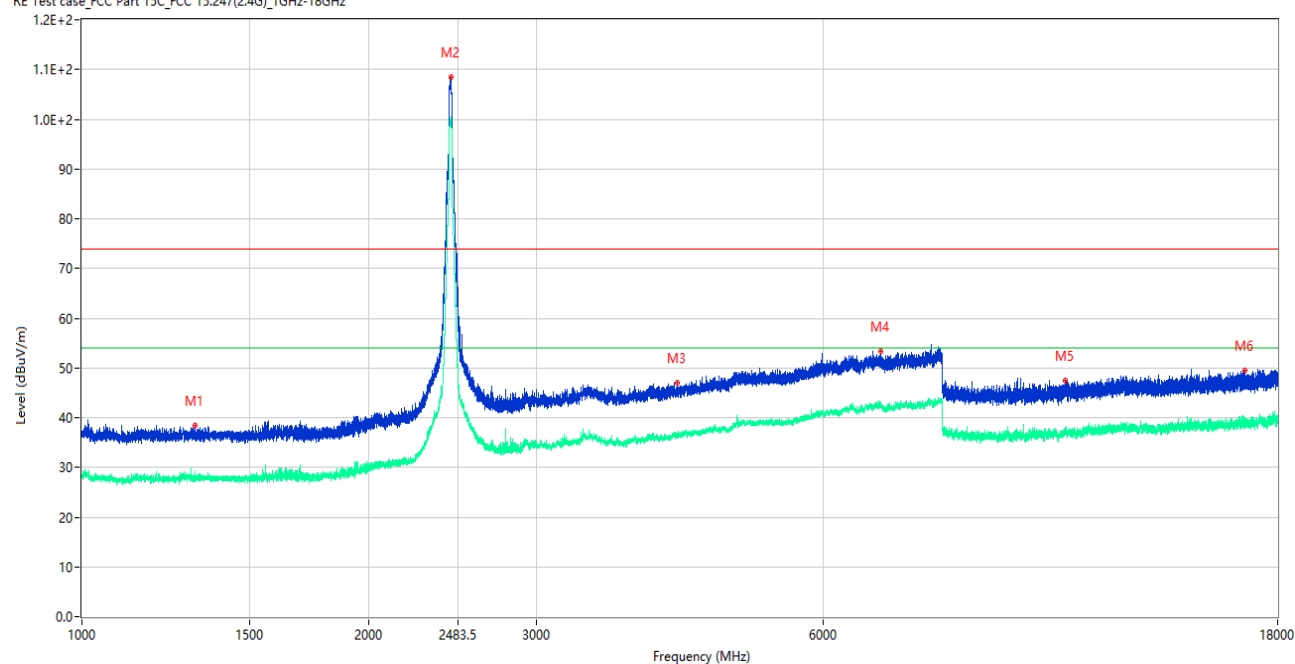
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1465.000	41.81	-16.22	74.0	32.19	Peak	221.00	150	Horizontal	Pass
1**	1465.000	28.60	-16.22	54.0	25.40	AV	221.00	150	Horizontal	Pass
2	2438.000	103.17	-12.38	74.0	-29.17	Peak	29.00	150	Horizontal	N/A
2**	2438.000	95.46	-12.38	54.0	-41.46	AV	29.00	150	Horizontal	N/A
3	4293.500	47.88	-3.95	74.0	26.12	Peak	321.00	150	Horizontal	Pass
3**	4293.500	36.31	-3.95	54.0	17.69	AV	321.00	150	Horizontal	Pass
4	6849.000	53.28	0.73	74.0	20.72	Peak	360.00	150	Horizontal	Pass
4**	6849.000	42.21	0.73	54.0	11.79	AV	360.00	150	Horizontal	Pass
5	11005.000	47.24	-3.00	74.0	26.76	Peak	124.00	150	Horizontal	Pass
5**	11005.000	37.24	-3.00	54.0	16.76	AV	124.00	150	Horizontal	Pass
6	16643.000	49.82	-1.04	74.0	24.18	Peak	0.00	150	Horizontal	Pass
6**	16643.000	39.04	-1.04	54.0	14.96	AV	0.00	150	Horizontal	Pass

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

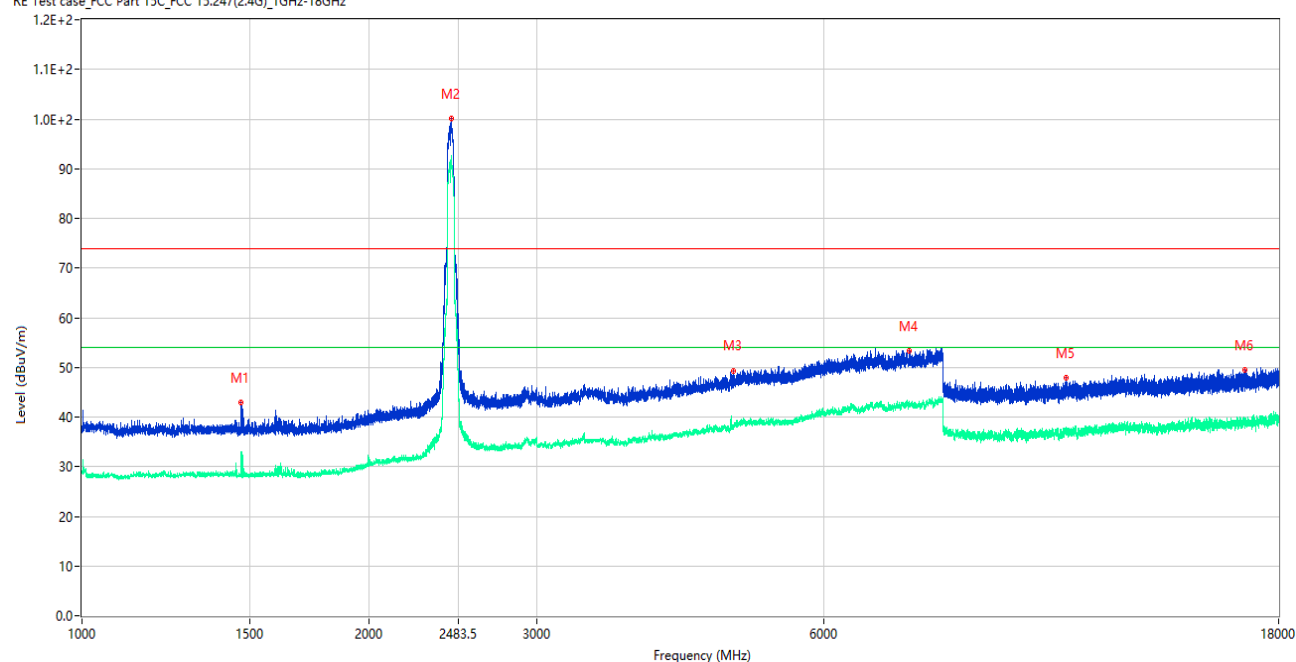
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1314.250	38.35	-15.87	74.0	35.65	Peak	360.00	150	Vertical	Pass
1**	1314.250	28.05	-15.87	54.0	25.95	AV	360.00	150	Vertical	Pass
2	2439.750	108.39	-12.37	74.0	-34.39	Peak	355.00	150	Vertical	N/A
2**	2439.750	100.16	-12.37	54.0	-46.16	AV	355.00	150	Vertical	N/A
3	4219.000	46.99	-3.92	74.0	27.01	Peak	30.00	150	Vertical	Pass
3**	4219.000	36.19	-3.92	54.0	17.81	AV	30.00	150	Vertical	Pass
4	6901.500	53.34	0.52	74.0	20.66	Peak	109.00	150	Vertical	Pass
4**	6901.500	42.33	0.52	54.0	11.67	AV	109.00	150	Vertical	Pass
5	10762.000	47.53	-3.59	74.0	26.47	Peak	234.00	150	Vertical	Pass
5**	10762.000	36.38	-3.59	54.0	17.62	AV	234.00	150	Vertical	Pass
6	16642.500	49.42	-1.02	74.0	24.58	Peak	205.00	150	Vertical	Pass
6**	16642.500	39.66	-1.02	54.0	14.34	AV	205.00	150	Vertical	Pass

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

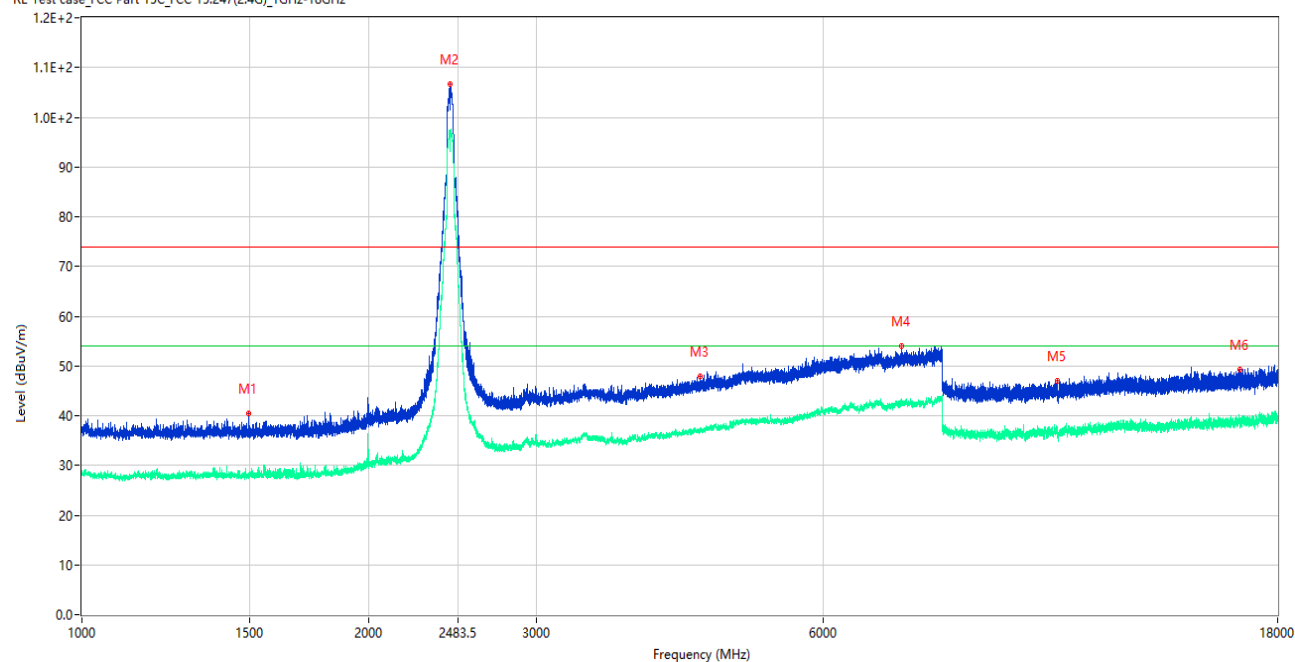
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1469.250	42.91	-16.28	74.0	31.09	Peak	34.00	150	Horizontal	Pass
1**	1469.250	32.90	-16.28	54.0	21.10	AV	34.00	150	Horizontal	Pass
2	2439.250	100.01	-12.37	74.0	-26.01	Peak	32.00	150	Horizontal	N/A
2**	2439.250	92.18	-12.37	54.0	-38.18	AV	32.00	150	Horizontal	N/A
3	4828.000	49.31	-2.48	74.0	24.69	Peak	0.00	150	Horizontal	Pass
3**	4828.000	38.04	-2.48	54.0	15.96	AV	0.00	150	Horizontal	Pass
4	7371.000	53.36	1.00	74.0	20.64	Peak	31.00	150	Horizontal	Pass
4**	7371.000	42.84	1.00	54.0	11.16	AV	31.00	150	Horizontal	Pass
5	10782.000	47.92	-3.02	74.0	26.08	Peak	205.00	150	Horizontal	Pass
5**	10782.000	37.50	-3.02	54.0	16.50	AV	205.00	150	Horizontal	Pass
6	16572.500	49.58	-0.74	74.0	24.42	Peak	360.00	150	Horizontal	Pass
6**	16572.500	39.05	-0.74	54.0	14.95	AV	360.00	150	Horizontal	Pass

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

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

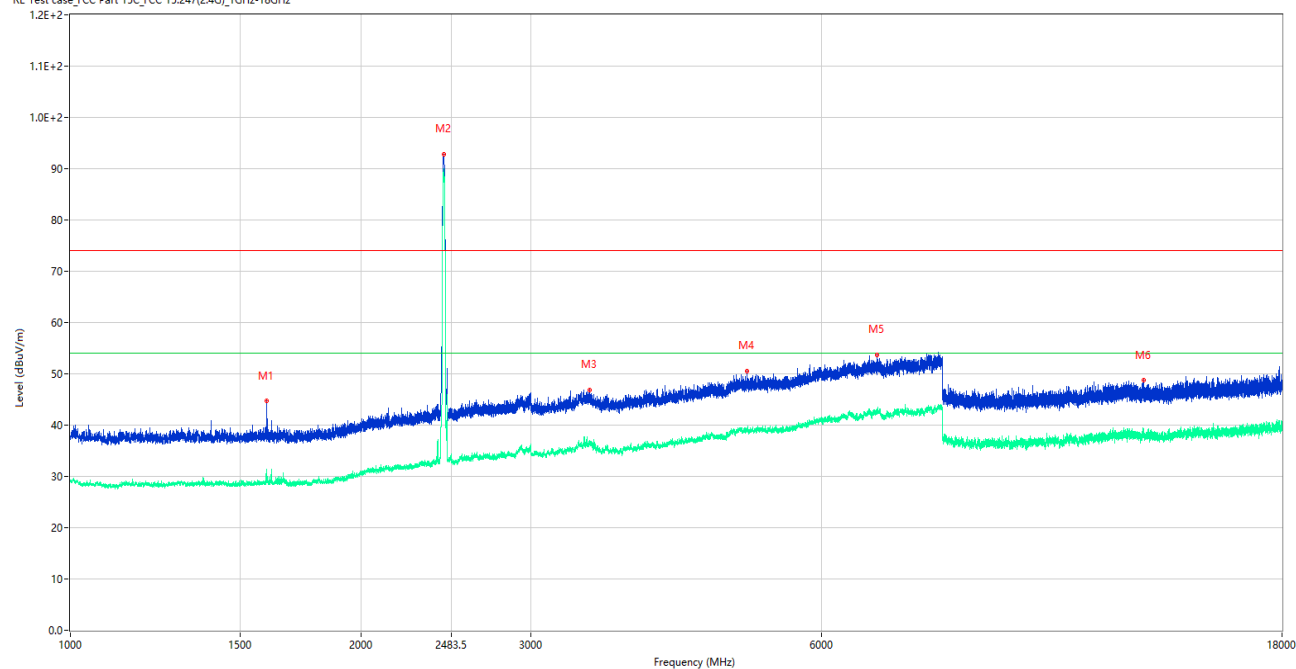


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.500	40.39	-16.17	74.0	33.61	Peak	105.00	150	Vertical	Pass
1**	1496.500	27.78	-16.17	54.0	26.22	AV	105.00	150	Vertical	Pass
2	2435.500	106.62	-12.31	74.0	-32.62	Peak	350.00	150	Vertical	N/A
2**	2435.500	97.20	-12.31	54.0	-43.20	AV	350.00	150	Vertical	N/A
3	4459.000	47.92	-3.63	74.0	26.08	Peak	158.00	150	Vertical	Pass
3**	4459.000	36.92	-3.63	54.0	17.08	AV	158.00	150	Vertical	Pass
4	7249.500	53.99	0.90	74.0	20.01	Peak	70.00	150	Vertical	Pass
4**	7249.500	42.33	0.90	54.0	11.67	AV	70.00	150	Vertical	Pass
5	10557.000	46.99	-3.34	74.0	27.01	Peak	155.00	150	Vertical	Pass
5**	10557.000	37.77	-3.34	54.0	16.23	AV	155.00	150	Vertical	Pass
6	16448.500	49.29	-1.94	74.0	24.71	Peak	351.00	150	Vertical	Pass
6**	16448.500	38.11	-1.94	54.0	15.89	AV	351.00	150	Vertical	Pass

Aux. Antenna

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

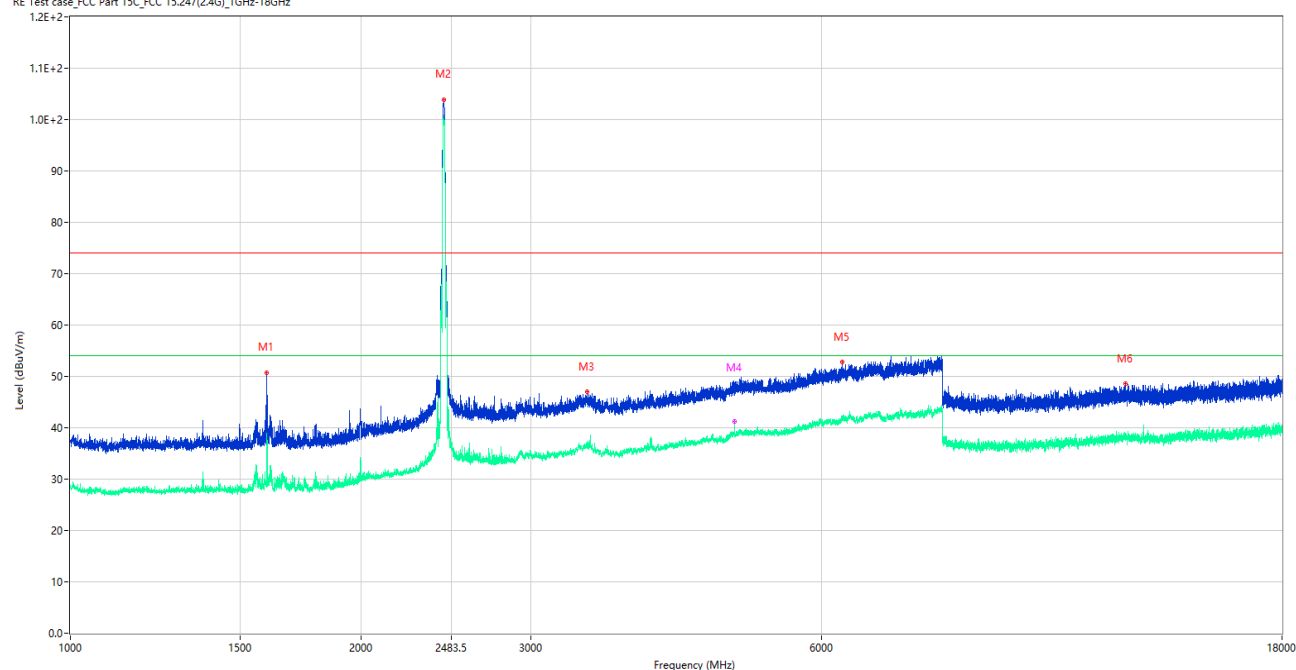
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.000	44.74	-16.21	74.0	29.26	Peak	161.00	150	Horizontal	Pass
1**	1598.000	30.83	-16.21	54.0	23.17	AV	161.00	150	Horizontal	Pass
2	2438.250	92.86	-12.38	74.0	-18.86	Peak	290.00	150	Horizontal	N/A
2**	2438.250	89.97	-12.38	54.0	-35.97	AV	290.00	150	Horizontal	N/A
3	3448.000	46.85	-5.12	74.0	27.15	Peak	13.00	150	Horizontal	Pass
3**	3448.000	36.51	-5.12	54.0	17.49	AV	13.00	150	Horizontal	Pass
4	5019.500	50.58	-2.22	74.0	23.42	Peak	290.00	150	Horizontal	Pass
4**	5019.500	38.97	-2.22	54.0	15.03	AV	290.00	150	Horizontal	Pass
5	6854.000	53.72	0.85	74.0	20.28	Peak	180.00	150	Horizontal	Pass
5**	6854.000	42.33	0.85	54.0	11.67	AV	180.00	150	Horizontal	Pass
6	12938.500	48.70	-1.96	74.0	25.30	Peak	9.00	150	Horizontal	Pass
6**	12938.500	38.52	-1.96	54.0	15.48	AV	9.00	150	Horizontal	Pass

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

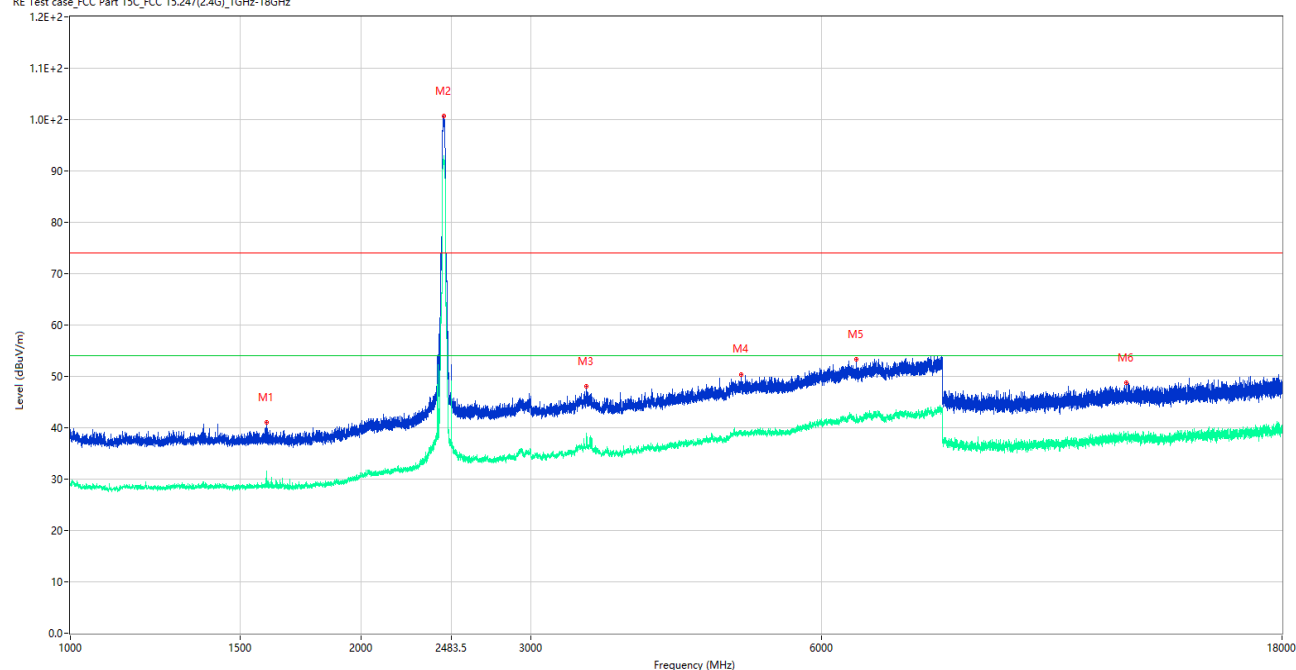
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.000	50.63	-16.24	74.0	23.37	Peak	291.00	150	Vertical	Pass
1**	1596.000	38.95	-16.24	54.0	15.05	AV	291.00	150	Vertical	Pass
2	2438.250	103.86	-12.38	74.0	-29.86	Peak	61.00	150	Vertical	N/A
2**	2438.250	100.92	-12.38	54.0	-46.92	AV	61.00	150	Vertical	N/A
3	3428.500	47.01	-4.96	74.0	26.99	Peak	109.00	150	Vertical	Pass
3**	3428.500	36.81	-4.96	54.0	17.19	AV	109.00	150	Vertical	Pass
4	4874.500	48.09	-2.25	74.0	25.91	Peak	289.00	150	Vertical	Pass
4**	4874.500	41.28	-2.25	54.0	12.72	AV	289.00	150	Vertical	Pass
5	6310.500	52.88	-0.10	74.0	21.12	Peak	309.00	150	Vertical	Pass
5**	6310.500	41.81	-0.10	54.0	12.19	AV	309.00	150	Vertical	Pass
6	12402.500	48.56	-2.33	74.0	25.44	Peak	243.00	150	Vertical	Pass
6**	12402.500	37.93	-2.33	54.0	16.07	AV	243.00	150	Vertical	Pass

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

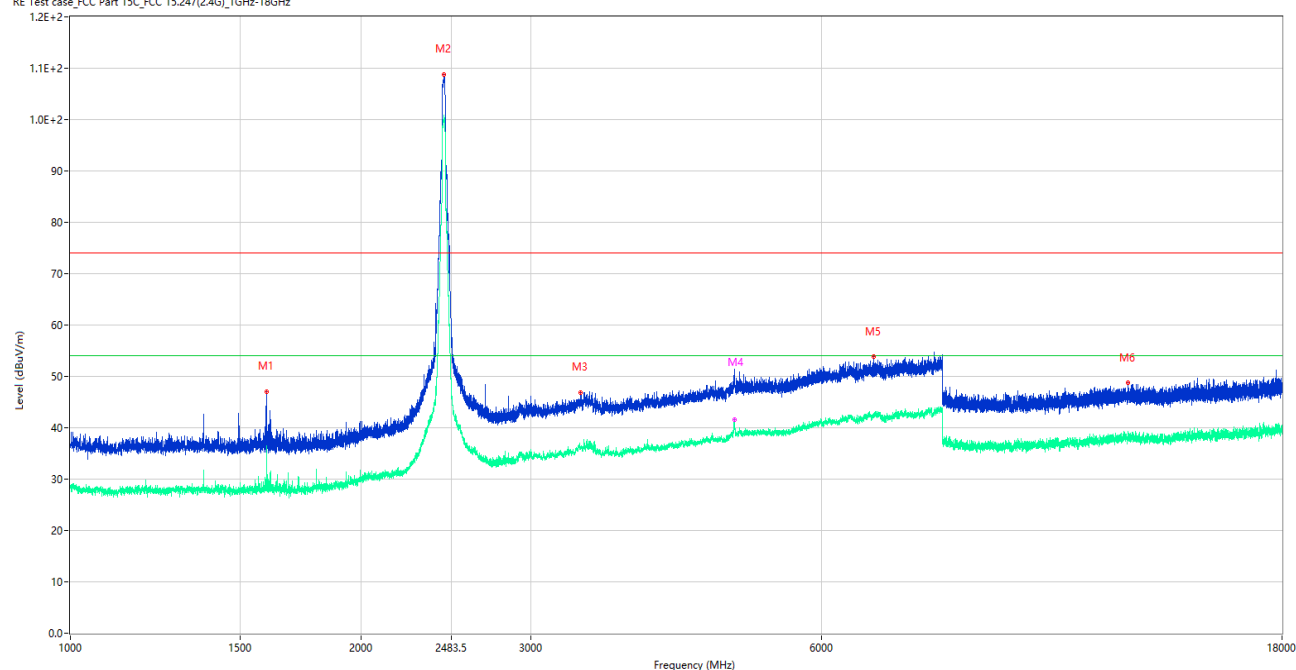
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.500	41.06	-16.21	74.0	32.94	Peak	59.00	150	Horizontal	Pass
1**	1597.500	28.48	-16.21	54.0	25.52	AV	59.00	150	Horizontal	Pass
2	2438.000	100.63	-12.38	74.0	-26.63	Peak	286.00	150	Horizontal	N/A
2**	2438.000	92.68	-12.38	54.0	-38.68	AV	286.00	150	Horizontal	N/A
3	3425.000	47.99	-4.91	74.0	26.01	Peak	210.00	150	Horizontal	Pass
3**	3425.000	38.86	-4.91	54.0	15.14	AV	210.00	150	Horizontal	Pass
4	4957.500	50.36	-1.86	74.0	23.64	Peak	130.00	150	Horizontal	Pass
4**	4957.500	38.69	-1.86	54.0	15.31	AV	130.00	150	Horizontal	Pass
5	6522.500	53.31	-0.04	74.0	20.69	Peak	360.00	150	Horizontal	Pass
5**	6522.500	41.49	-0.04	54.0	12.51	AV	360.00	150	Horizontal	Pass
6	12414.500	48.69	-2.37	74.0	25.31	Peak	182.00	150	Horizontal	Pass
6**	12414.500	37.95	-2.37	54.0	16.05	AV	182.00	150	Horizontal	Pass

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

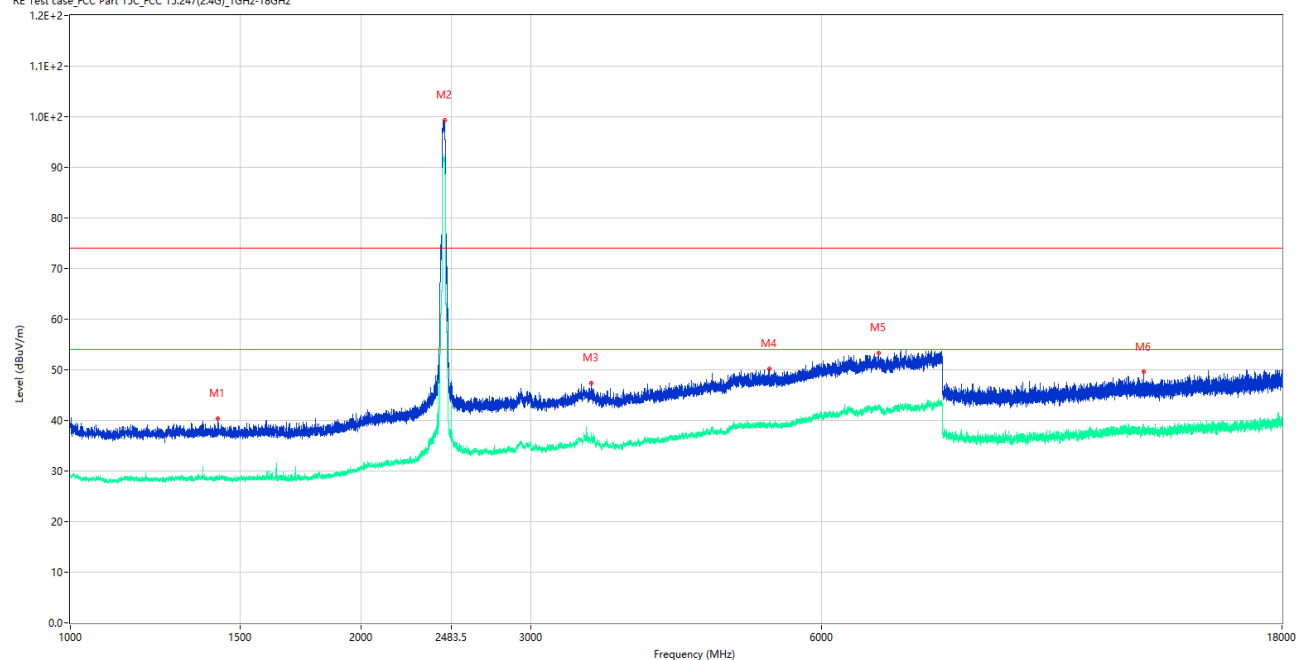
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.250	47.05	-16.24	74.0	26.95	Peak	113.00	150	Vertical	Pass
1**	1596.250	33.39	-16.24	54.0	20.61	AV	113.00	150	Vertical	Pass
2	2440.000	108.82	-12.37	74.0	-34.82	Peak	343.00	150	Vertical	N/A
2**	2440.000	100.60	-12.37	54.0	-46.60	AV	343.00	150	Vertical	N/A
3	3375.000	46.91	-4.83	74.0	27.09	Peak	255.00	150	Vertical	Pass
3**	3375.000	36.14	-4.83	54.0	17.86	AV	255.00	150	Vertical	Pass
4	4877.000	48.87	-2.25	74.0	25.13	Peak	305.00	150	Vertical	Pass
4**	4877.000	41.51	-2.25	54.0	12.49	AV	305.00	150	Vertical	Pass
5	6799.000	53.79	0.41	74.0	20.21	Peak	217.00	150	Vertical	Pass
5**	6799.000	42.47	0.41	54.0	11.53	AV	217.00	150	Vertical	Pass
6	12461.000	48.74	-2.27	74.0	25.26	Peak	206.00	150	Vertical	Pass
6**	12461.000	38.55	-2.27	54.0	15.45	AV	206.00	150	Vertical	Pass

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

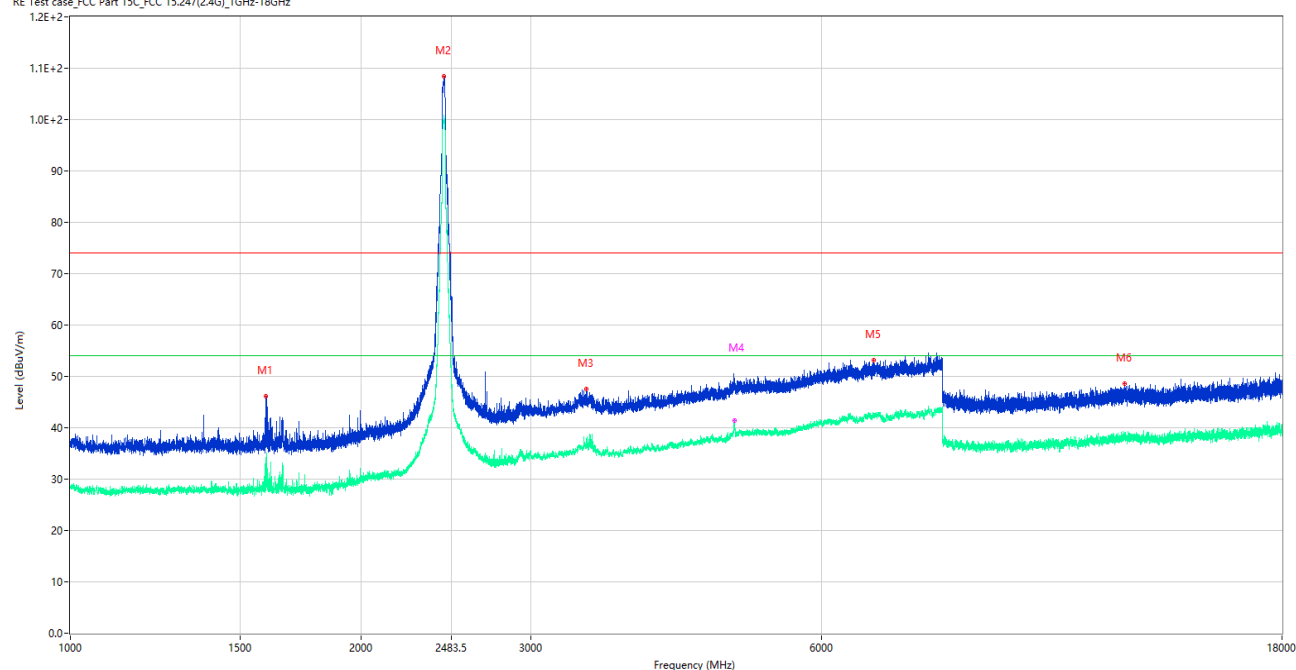
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1422.500	40.36	-15.94	74.0	33.64	Peak	107.00	150	Horizontal	Pass
1**	1422.500	28.87	-15.94	54.0	25.13	AV	107.00	150	Horizontal	Pass
2	2440.250	99.33	-12.37	74.0	-25.33	Peak	286.00	150	Horizontal	N/A
2**	2440.250	91.96	-12.37	54.0	-37.96	AV	286.00	150	Horizontal	N/A
3	3461.500	47.41	-5.00	74.0	26.59	Peak	180.00	150	Horizontal	Pass
3**	3461.500	36.04	-5.00	54.0	17.96	AV	180.00	150	Horizontal	Pass
4	5299.500	50.16	-2.02	74.0	23.84	Peak	14.00	150	Horizontal	Pass
4**	5299.500	39.00	-2.02	54.0	15.00	AV	14.00	150	Horizontal	Pass
5	6879.000	53.41	0.59	74.0	20.59	Peak	360.00	150	Horizontal	Pass
5**	6879.000	42.33	0.59	54.0	11.67	AV	360.00	150	Horizontal	Pass
6	12935.999	49.65	-1.94	74.0	24.35	Peak	327.00	150	Horizontal	Pass
6**	12935.999	38.36	-1.94	54.0	15.64	AV	327.00	150	Horizontal	Pass

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

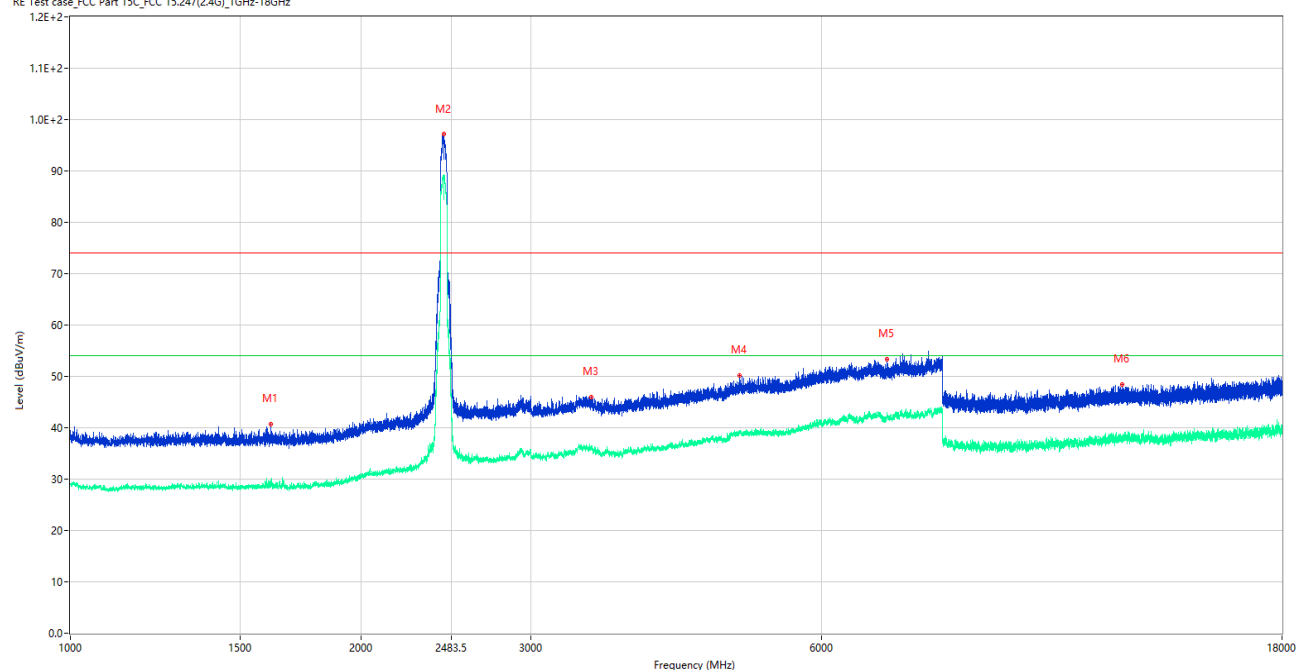
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1595.500	46.16	-16.25	74.0	27.84	Peak	117.00	150	Vertical	Pass
1**	1595.500	27.79	-16.25	54.0	26.21	AV	117.00	150	Vertical	Pass
2	2435.750	108.42	-12.32	74.0	-34.42	Peak	356.00	150	Vertical	N/A
2**	2435.750	99.94	-12.32	54.0	-45.94	AV	356.00	150	Vertical	N/A
3	3423.000	47.54	-4.91	74.0	26.46	Peak	2.00	150	Vertical	Pass
3**	3423.000	37.24	-4.91	54.0	16.76	AV	2.00	150	Vertical	Pass
4	4873.500	49.68	-2.23	74.0	24.32	Peak	271.00	150	Vertical	Pass
4**	4873.500	41.35	-2.23	54.0	12.65	AV	271.00	150	Vertical	Pass
5	6790.000	53.23	0.45	74.0	20.77	Peak	271.00	150	Vertical	Pass
5**	6790.000	42.60	0.45	54.0	11.40	AV	271.00	150	Vertical	Pass
6	12354.500	48.60	-1.90	74.0	25.40	Peak	351.00	150	Vertical	Pass
6**	12354.500	37.97	-1.90	54.0	16.03	AV	351.00	150	Vertical	Pass

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

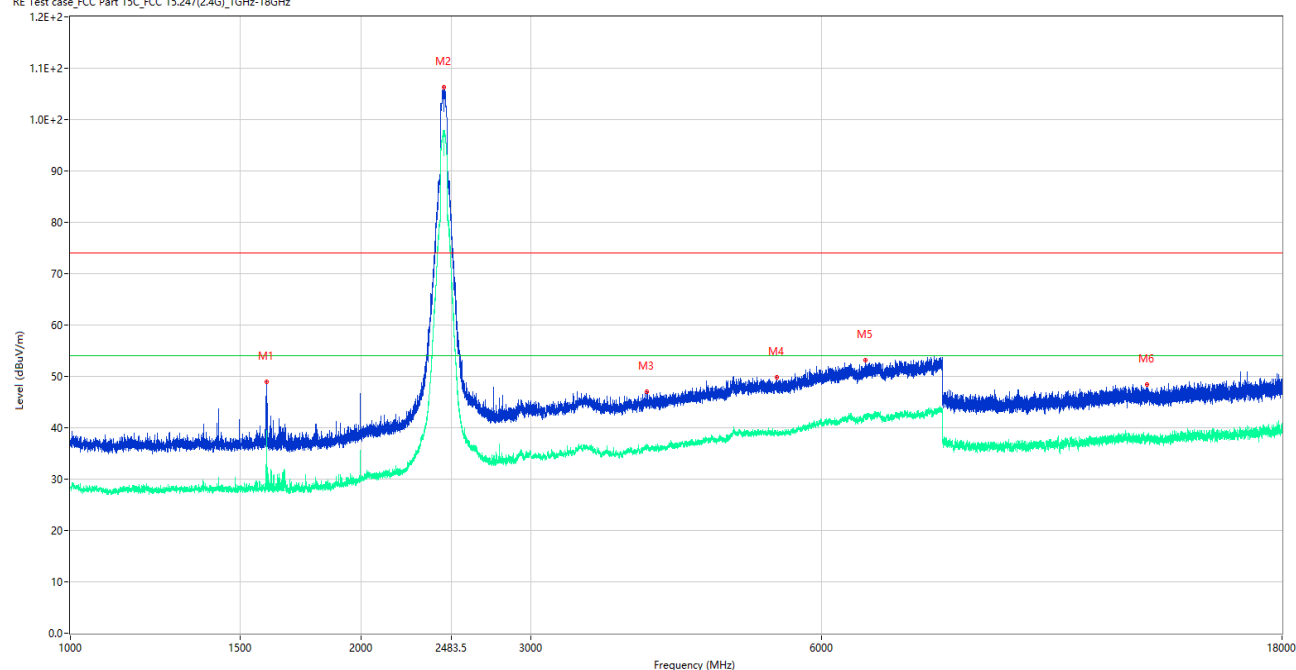
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1614.000	40.77	-16.17	74.0	33.23	Peak	82.00	150	Horizontal	Pass
1**	1614.000	29.79	-16.17	54.0	24.21	AV	82.00	150	Horizontal	Pass
2	2439.000	97.12	-12.37	74.0	-23.12	Peak	289.00	150	Horizontal	N/A
2**	2439.000	89.04	-12.37	54.0	-35.04	AV	289.00	150	Horizontal	N/A
3	3465.000	45.89	-5.10	74.0	28.11	Peak	51.00	150	Horizontal	Pass
3**	3465.000	36.05	-5.10	54.0	17.95	AV	51.00	150	Horizontal	Pass
4	4935.500	50.26	-2.00	74.0	23.74	Peak	139.00	150	Horizontal	Pass
4**	4935.500	39.01	-2.00	54.0	14.99	AV	139.00	150	Horizontal	Pass
5	7015.500	53.40	0.60	74.0	20.60	Peak	81.00	150	Horizontal	Pass
5**	7015.500	42.39	0.60	54.0	11.61	AV	81.00	150	Horizontal	Pass
6	12300.000	48.43	-2.66	74.0	25.57	Peak	321.00	150	Horizontal	Pass
6**	12300.000	38.29	-2.66	54.0	15.71	AV	321.00	150	Horizontal	Pass

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

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.500	49.02	-16.21	74.0	24.98	Peak	113.00	150	Vertical	Pass
1**	1597.500	34.56	-16.21	54.0	19.44	AV	113.00	150	Vertical	Pass
2	2435.500	106.37	-12.31	74.0	-32.37	Peak	59.00	150	Vertical	N/A
2**	2435.500	97.24	-12.31	54.0	-43.24	AV	59.00	150	Vertical	N/A
3	3957.000	47.00	-4.15	74.0	27.00	Peak	131.00	150	Vertical	Pass
3**	3957.000	35.64	-4.15	54.0	18.36	AV	131.00	150	Vertical	Pass
4	5395.500	49.91	-2.15	74.0	24.09	Peak	292.00	150	Vertical	Pass
4**	5395.500	39.00	-2.15	54.0	15.00	AV	292.00	150	Vertical	Pass
5	6665.500	53.19	-0.07	74.0	20.81	Peak	312.00	150	Vertical	Pass
5**	6665.500	41.95	-0.07	54.0	12.05	AV	312.00	150	Vertical	Pass
6	13046.500	48.44	-1.96	74.0	25.56	Peak	39.00	150	Vertical	Pass
6**	13046.500	37.76	-1.96	54.0	16.24	AV	39.00	150	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: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

Main Antenna

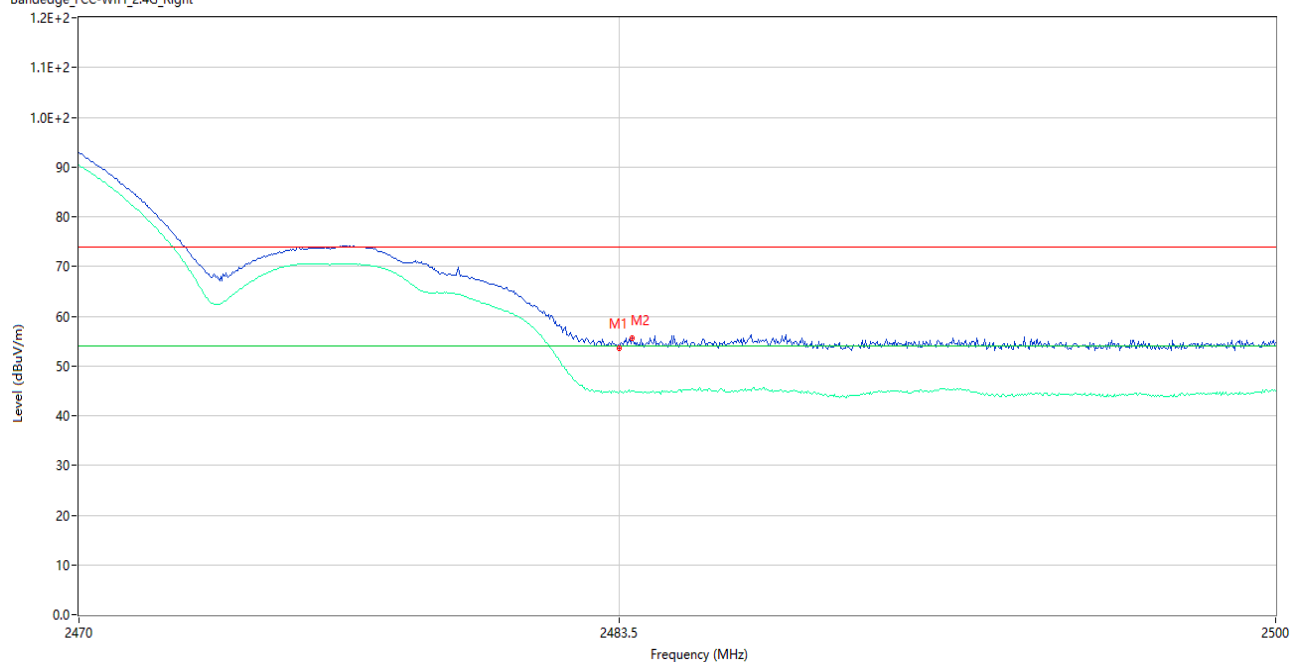
802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	53.51	-4.87	74.0	20.49	Peak	359.99	150	Vertical	Pass
1**	2390.000	43.77	-4.87	54.0	10.23	AV	359.99	150	Vertical	Pass
2	2383.700	54.74	-4.52	74.0	19.26	Peak	21.00	150	Vertical	Pass
2**	2383.700	44.60	-4.52	54.0	9.40	AV	21.00	150	Vertical	Pass

802.11b HIGH CHANNEL

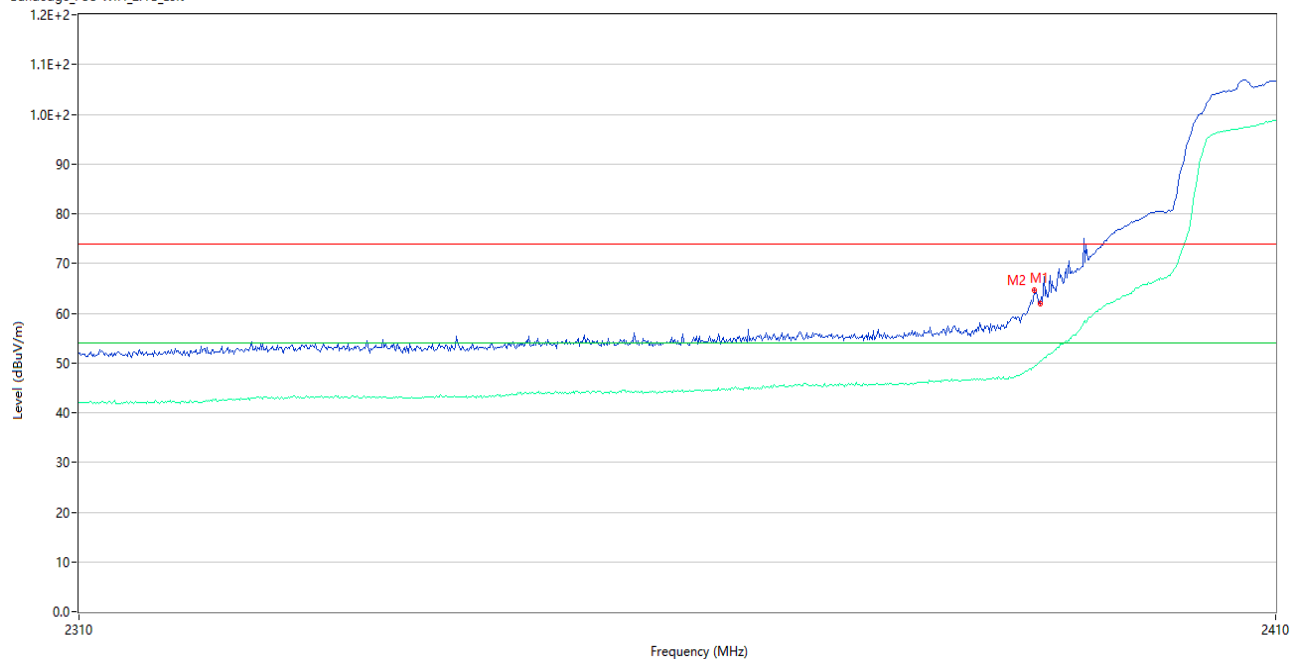
Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.54	-3.78	74.0	20.46	Peak	0.00	150	Vertical	Pass
1**	2483.500	44.71	-3.78	54.0	9.29	AV	0.00	150	Vertical	Pass
2	2483.830	55.58	-3.78	74.0	18.42	Peak	0.00	150	Vertical	Pass
2**	2483.830	44.89	-3.78	54.0	9.11	AV	0.00	150	Vertical	Pass

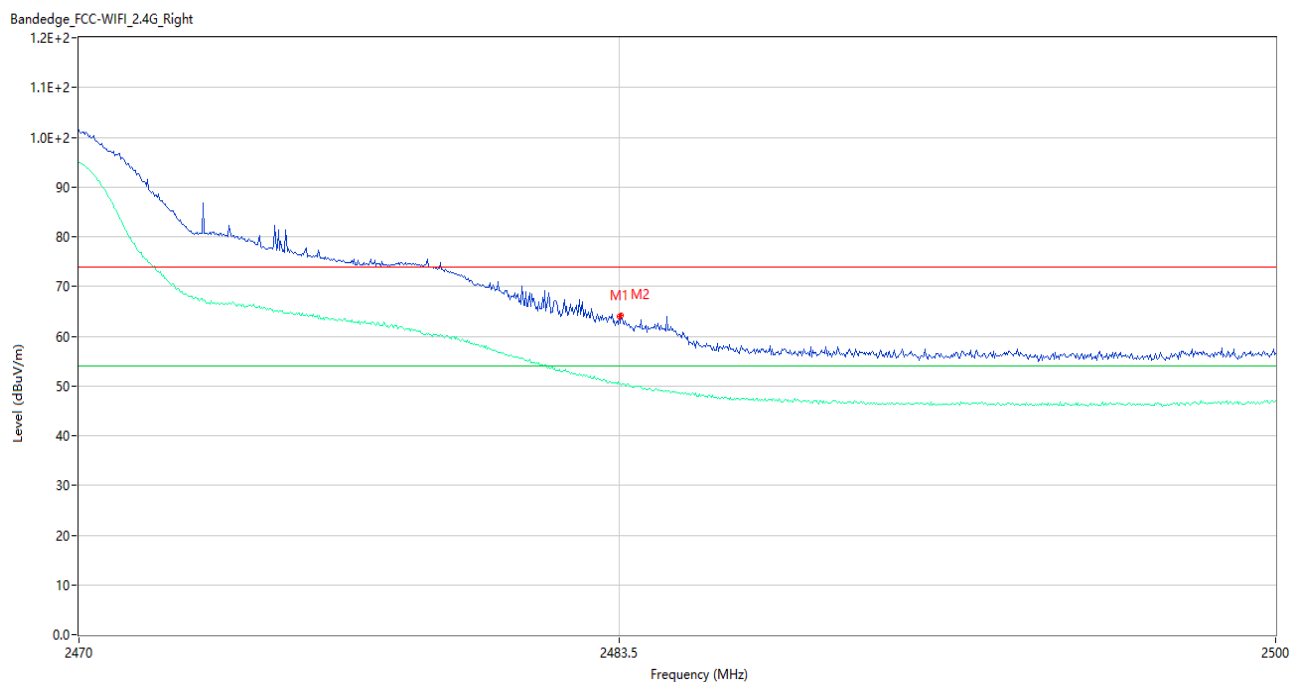
802.11g LOW CHANNEL

Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	62.02	-4.87	74.0	11.98	Peak	0.00	150	Vertical	Pass
1**	2390.000	50.43	-4.87	54.0	3.57	AV	0.00	150	Vertical	Pass
2	2389.500	64.61	-4.85	74.0	9.39	Peak	0.00	150	Vertical	Pass
2**	2389.500	49.32	-4.85	54.0	4.68	AV	0.00	150	Vertical	Pass

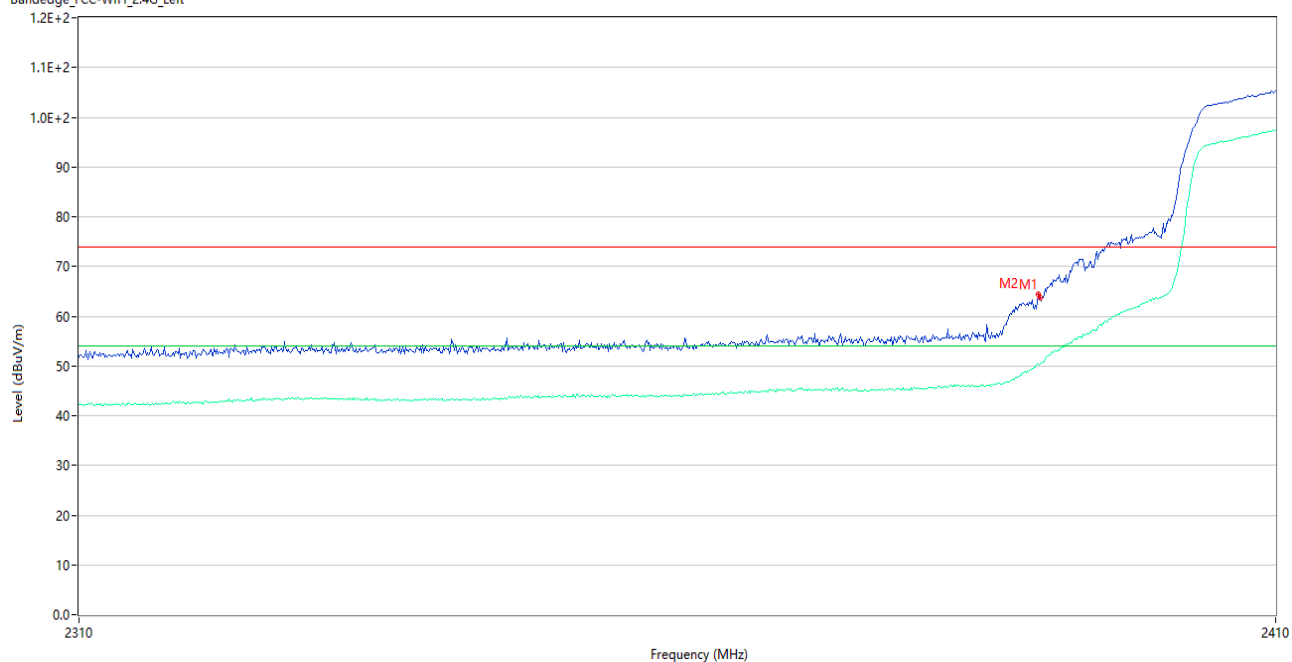
802.11g HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.03	-3.78	74.0	9.97	Peak	360.00	150	Vertical	Pass
1**	2483.500	50.46	-3.78	54.0	3.54	AV	360.00	150	Vertical	Pass
2	2483.560	64.26	-3.78	74.0	9.74	Peak	360.00	150	Vertical	Pass
2**	2483.560	50.28	-3.78	54.0	3.72	AV	360.00	150	Vertical	Pass

802.11n20 LOW CHANNEL

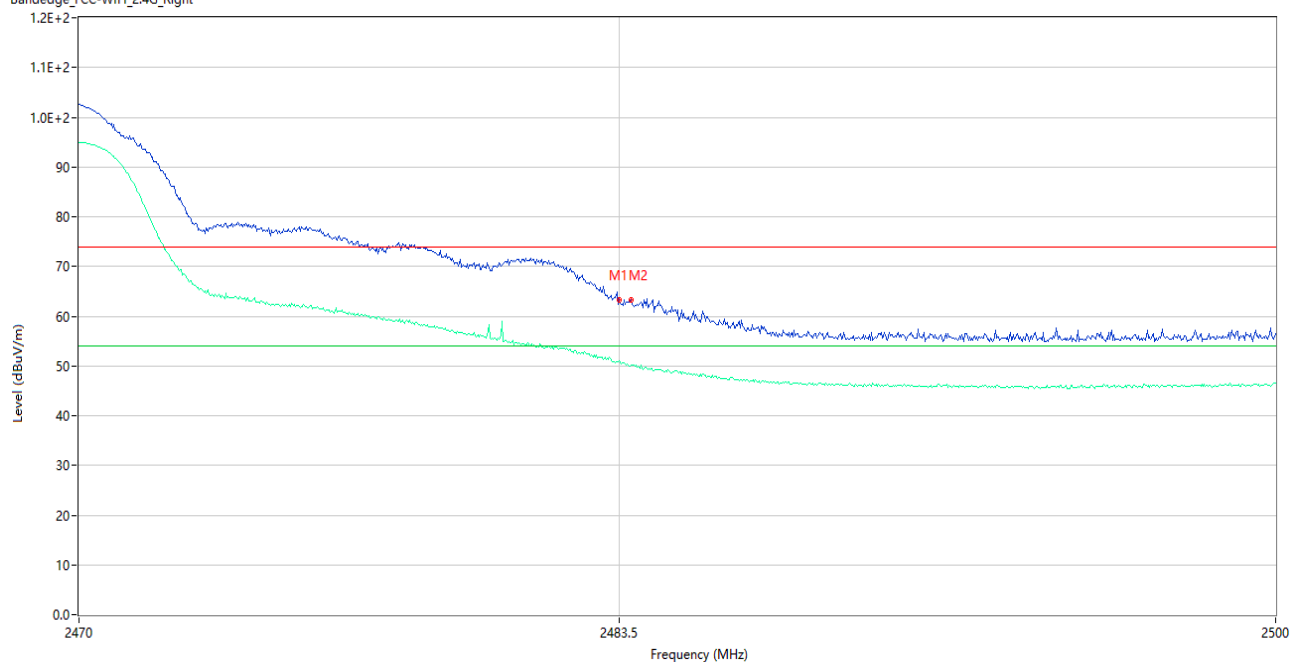
Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	63.77	-4.87	74.0	10.23	Peak	351.01	150	Vertical	Pass
1**	2390.000	50.44	-4.87	54.0	3.56	AV	351.01	150	Vertical	Pass
2	2389.800	64.42	-4.86	74.0	9.58	Peak	360.00	150	Vertical	Pass
2**	2389.800	50.38	-4.86	54.0	3.62	AV	360.00	150	Vertical	Pass

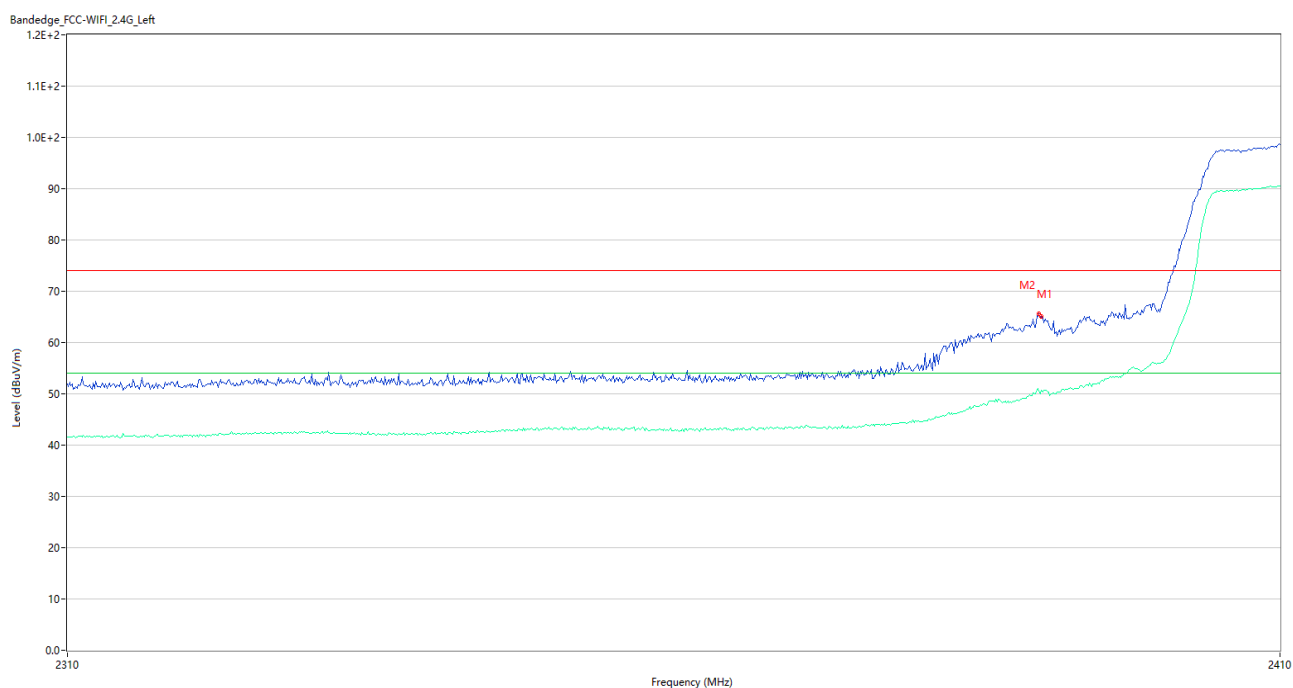
802.11n20 HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



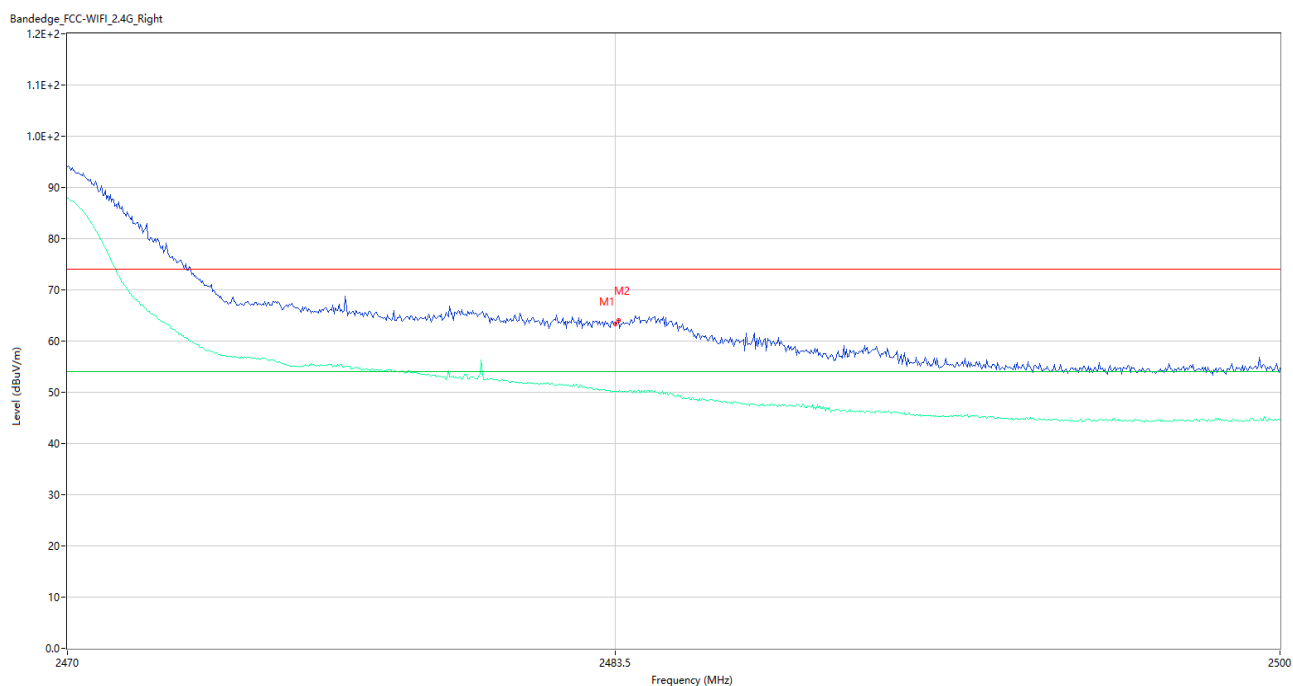
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.17	-3.78	74.0	10.83	Peak	0.00	150	Vertical	Pass
1**	2483.500	51.00	-3.78	54.0	3.00	AV	0.00	150	Vertical	Pass
2	2483.800	63.35	-3.78	74.0	10.65	Peak	0.00	150	Vertical	Pass
2**	2483.800	50.12	-3.78	54.0	3.88	AV	0.00	150	Vertical	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	2390.000	65.03	-4.87	74.0	8.97	Peak	360.00	100	Vertical	Pass
1**	2390.000	50.72	-4.87	54.0	3.28	AV	360.00	100	Vertical	Pass
2	2389.800	65.63	-4.86	74.0	8.37	Peak	2.00	100	Vertical	Pass
2**	2389.800	50.59	-4.86	54.0	3.41	AV	2.00	100	Vertical	Pass

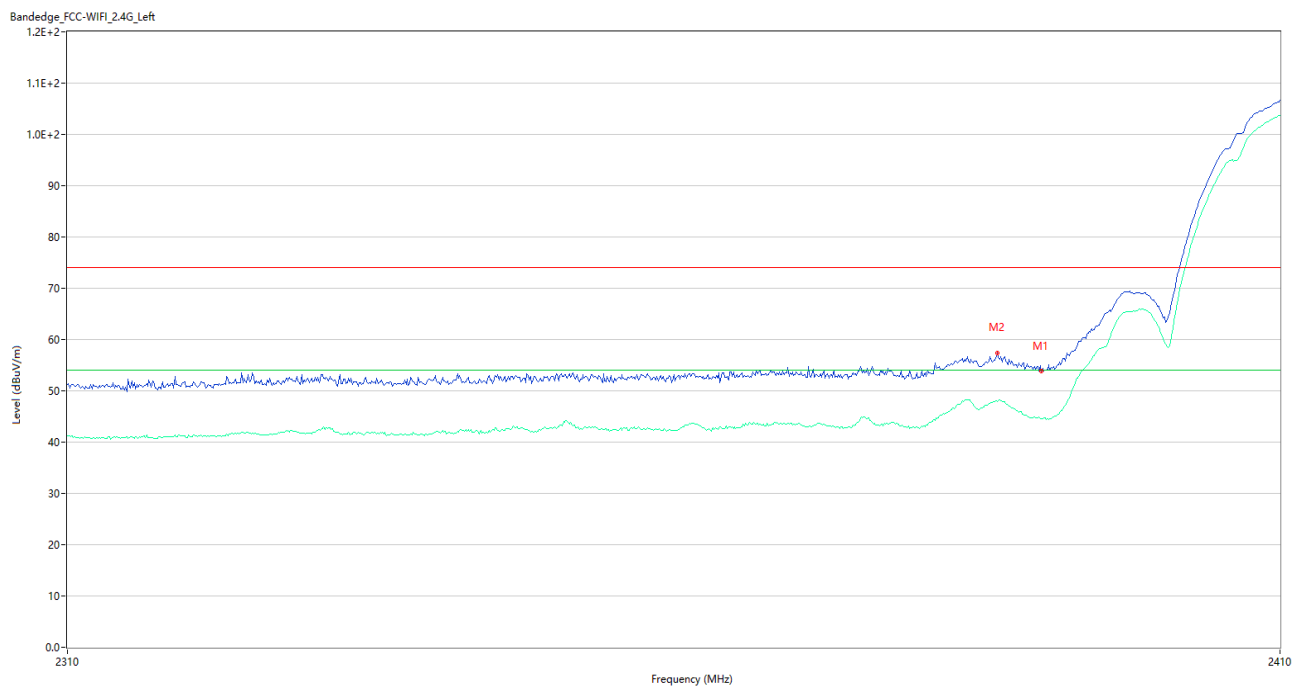
802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.30	-3.78	74.0	10.70	Peak	0.00	150	Vertical	Pass
1**	2483.500	50.23	-3.78	54.0	3.77	AV	0.00	150	Vertical	Pass
2	2483.590	63.99	-3.78	74.0	10.01	Peak	10.00	150	Vertical	Pass
2**	2483.590	50.11	-3.78	54.0	3.89	AV	10.00	150	Vertical	Pass

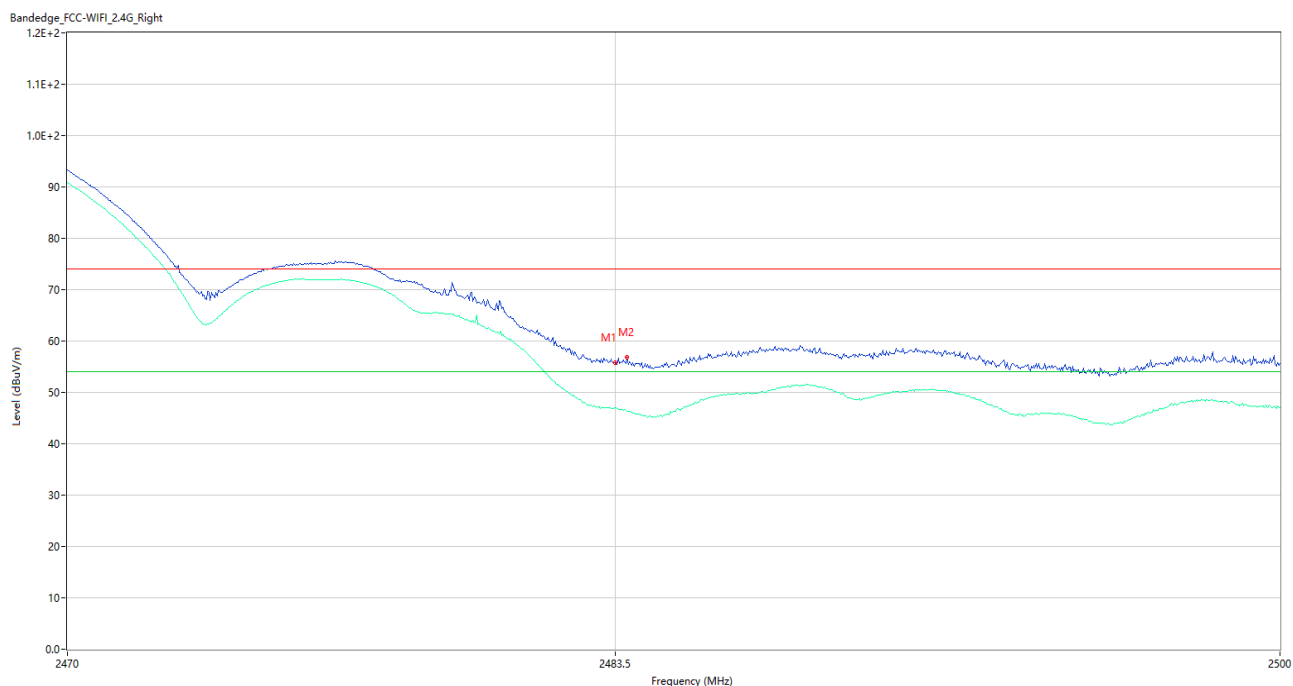
Aux. Antenna

802.11b LOW CHANNEL



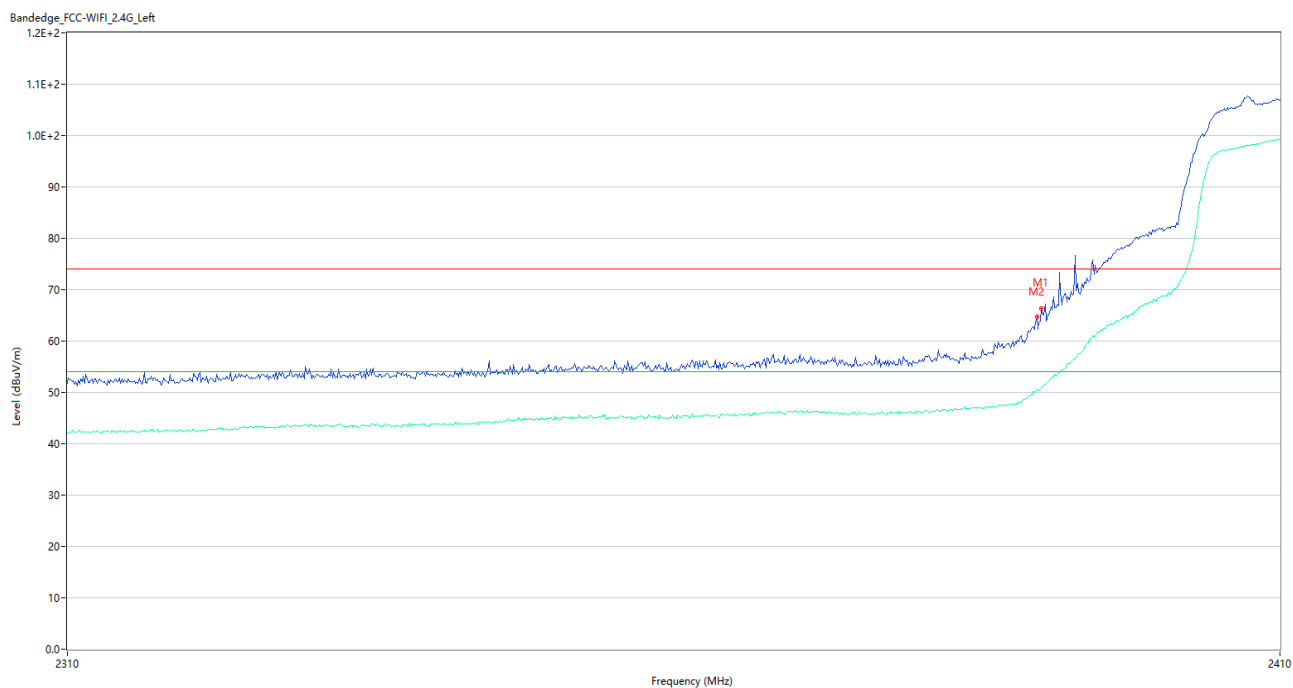
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	53.78	-4.87	74.0	20.22	Peak	2.46	150	Vertical	Pass
1**	2390.000	44.61	-4.87	54.0	9.39	AV	2.46	150	Vertical	Pass
2	2386.300	57.30	-4.65	74.0	16.70	Peak	6.00	150	Vertical	Pass
2**	2386.300	47.97	-4.65	54.0	6.03	AV	6.00	150	Vertical	Pass

802.11b HIGH CHANNEL



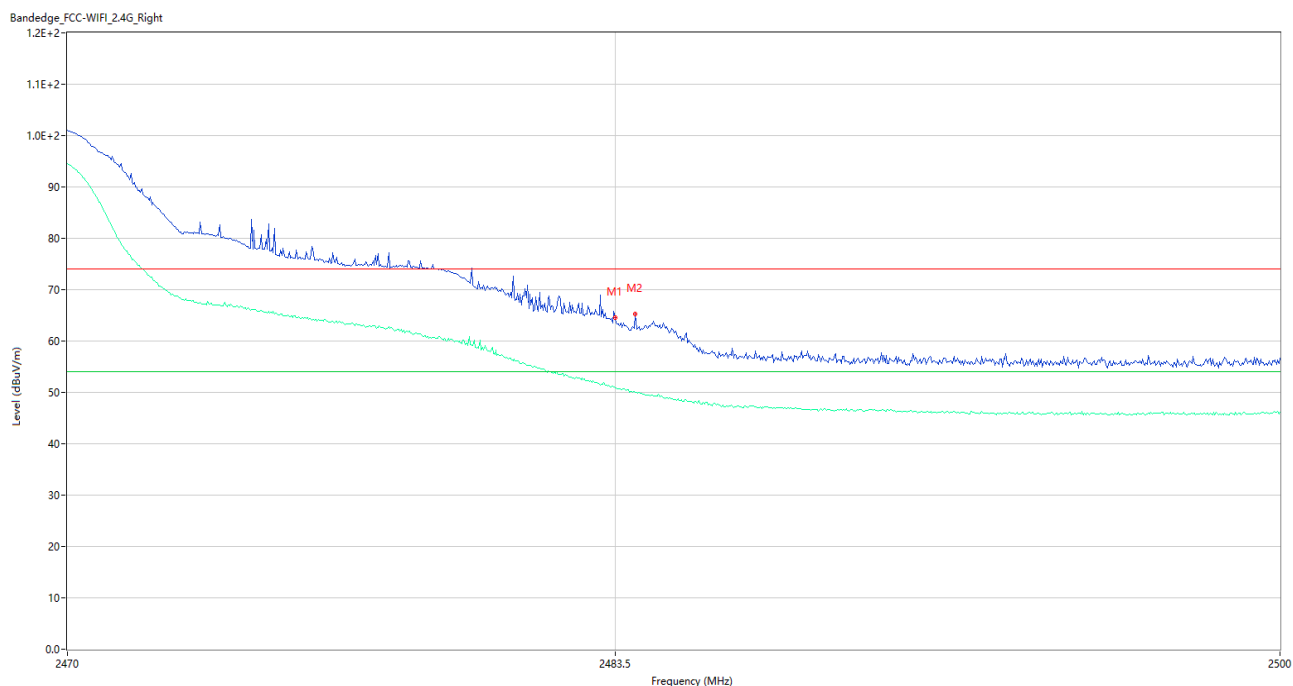
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.75	-3.78	74.0	18.25	Peak	0.00	150	Vertical	Pass
1**	2483.500	47.01	-3.78	54.0	6.99	AV	0.00	150	Vertical	Pass
2	2483.800	56.81	-3.78	74.0	17.19	Peak	0.00	150	Vertical	Pass
2**	2483.800	46.39	-3.78	54.0	7.61	AV	0.00	150	Vertical	Pass

802.11g LOW CHANNEL



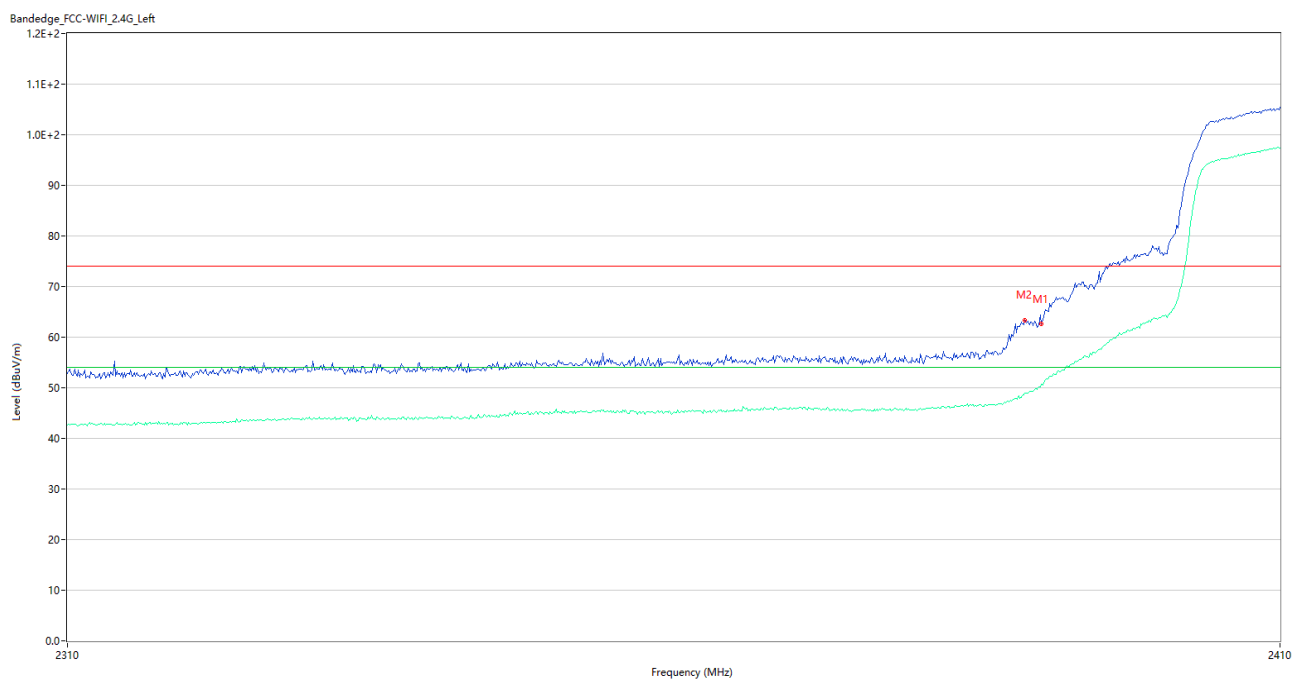
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	66.32	-4.87	74.0	7.68	Peak	58.02	150	Vertical	Pass
1**	2390.000	50.90	-4.87	54.0	3.10	AV	58.02	150	Vertical	Pass
2	2389.600	64.71	-4.85	74.0	9.29	Peak	360.00	150	Vertical	Pass
2**	2389.600	50.50	-4.85	54.0	3.50	AV	360.00	150	Vertical	Pass

802.11g HIGH CHANNEL



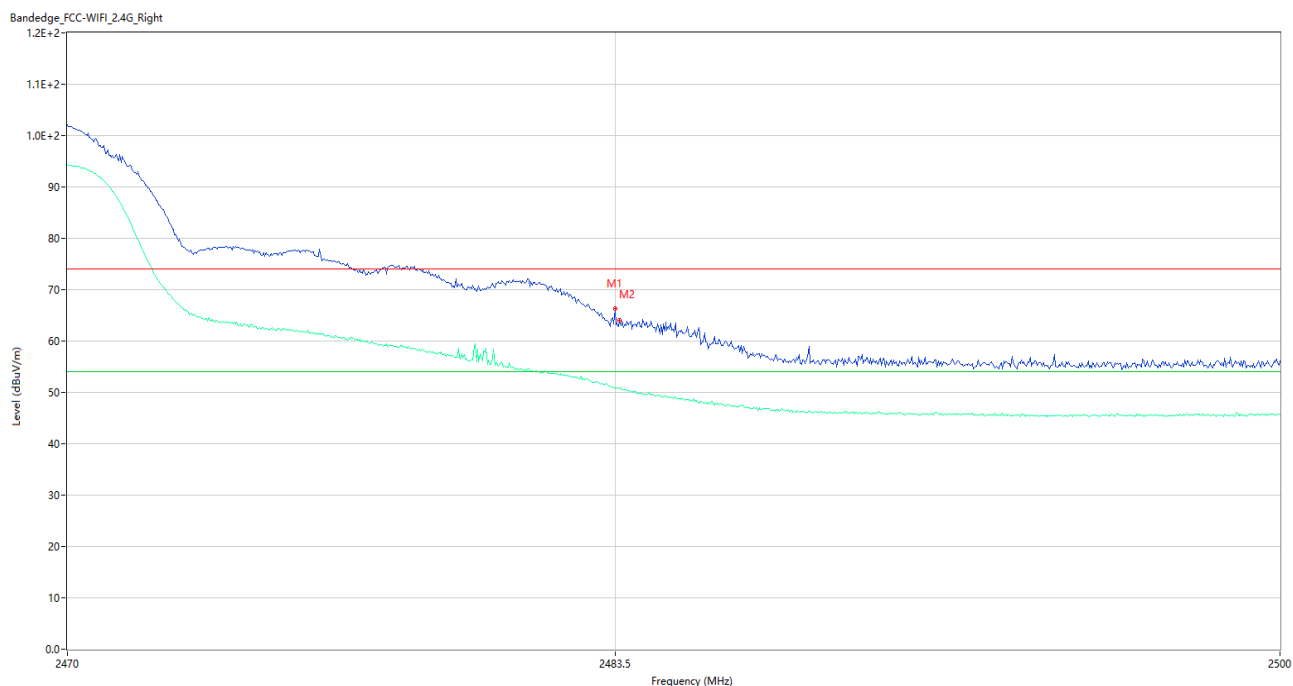
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.61	-3.78	74.0	9.39	Peak	0.00	150	Vertical	Pass
1**	2483.500	50.94	-3.78	54.0	3.06	AV	0.00	150	Vertical	Pass
2	2484.010	65.35	-3.78	74.0	8.65	Peak	327.00	150	Vertical	Pass
2**	2484.010	50.08	-3.78	54.0	3.92	AV	327.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



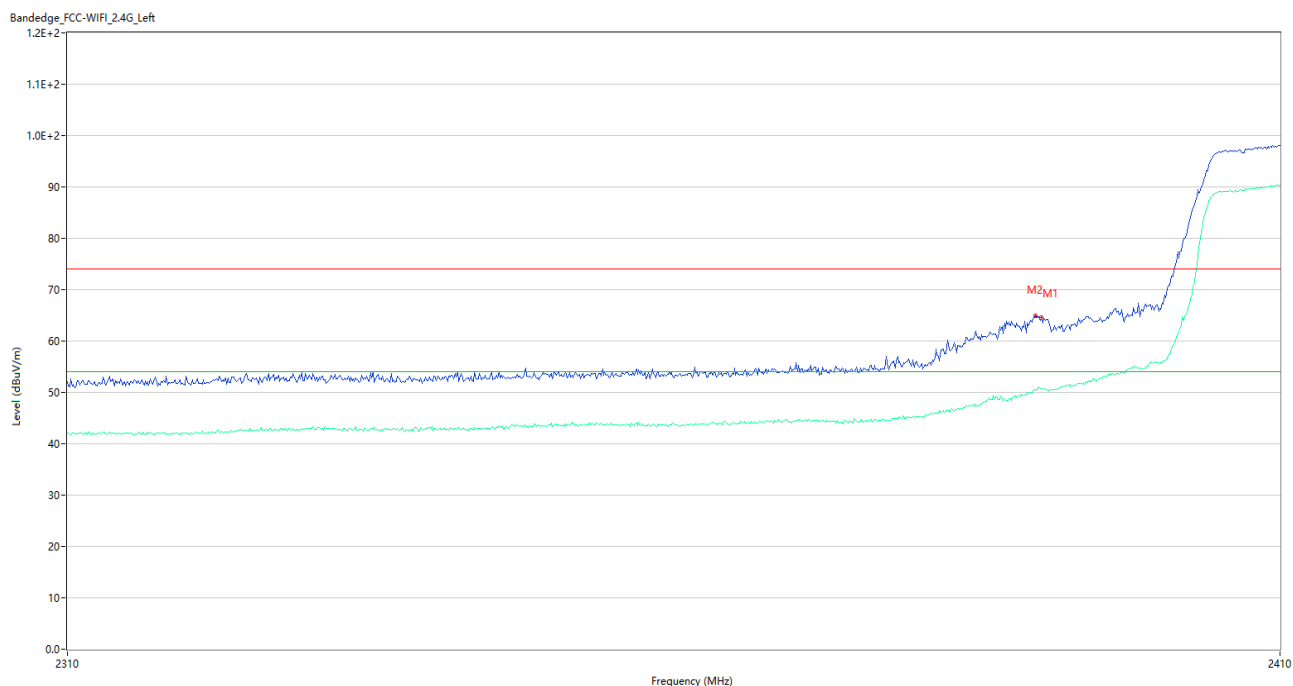
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	62.62	-4.87	74.0	11.38	Peak	337.01	150	Vertical	Pass
1**	2390.000	50.65	-4.87	54.0	3.35	AV	337.01	150	Vertical	Pass
2	2388.600	63.39	-4.80	74.0	10.61	Peak	0.00	150	Vertical	Pass
2**	2388.600	48.86	-4.80	54.0	5.14	AV	0.00	150	Vertical	Pass

802.11n20 HIGH CHANNEL



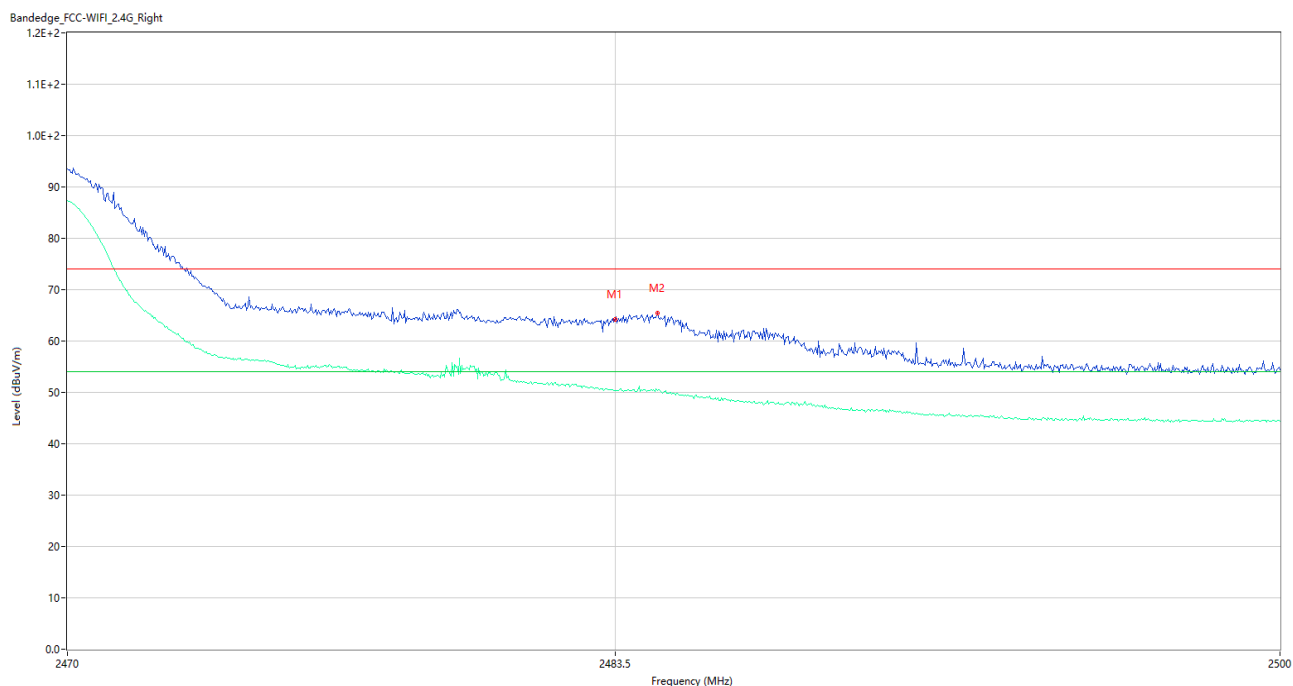
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	66.37	-3.78	74.0	7.63	Peak	352.00	150	Vertical	Pass
1**	2483.500	50.93	-3.78	54.0	3.07	AV	352.00	150	Vertical	Pass
2	2483.620	64.07	-3.78	74.0	9.93	Peak	2.00	150	Vertical	Pass
2**	2483.620	50.62	-3.78	54.0	3.38	AV	2.00	150	Vertical	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	2390.000	64.65	-4.87	74.0	9.35	Peak	0.44	150	Vertical	Pass
1**	2390.000	50.76	-4.87	54.0	3.24	AV	0.44	150	Vertical	Pass
2	2389.500	64.89	-4.85	74.0	9.11	Peak	0.00	150	Vertical	Pass
2**	2389.500	50.37	-4.85	54.0	3.63	AV	0.00	150	Vertical	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	64.18	-3.78	74.0	9.82	Peak	327.00	150	Vertical	Pass
1**	2483.500	50.29	-3.78	54.0	3.71	AV	327.00	150	Vertical	Pass
2	2484.550	65.40	-3.78	74.0	8.60	Peak	355.00	150	Vertical	Pass
2**	2484.550	50.42	-3.78	54.0	3.58	AV	355.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

Main Antenna:

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.55	7.55
Middle	-9.77	7.55
High	-9.41	7.55

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.79	7.55
Middle	-13.84	7.55
High	-15.64	7.55

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.77	8
Middle	-15.20	8
High	-15.60	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.31	8
Middle	-19.74	8
High	-21.71	8

Aux. Antenna:

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.32	7.55
Middle	-6.19	7.55
High	-7.03	7.55

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.51	7.55
Middle	-13.67	7.55
High	-13.70	7.55

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.97	8
Middle	-13.79	8
High	-14.07	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.12	8
Middle	-19.17	8
High	-18.90	8

MIMO Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-4.63	7.55
Middle	-4.61	7.55
High	-5.05	7.55

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.49	7.55
Middle	-10.74	7.55
High	-11.55	7.55

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.13	8
Middle	-11.43	8
High	-11.76	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.20	8
Middle	-16.43	8
High	-17.07	8

Test Plots

Main Antenna:

802.11b LOW CHANNEL



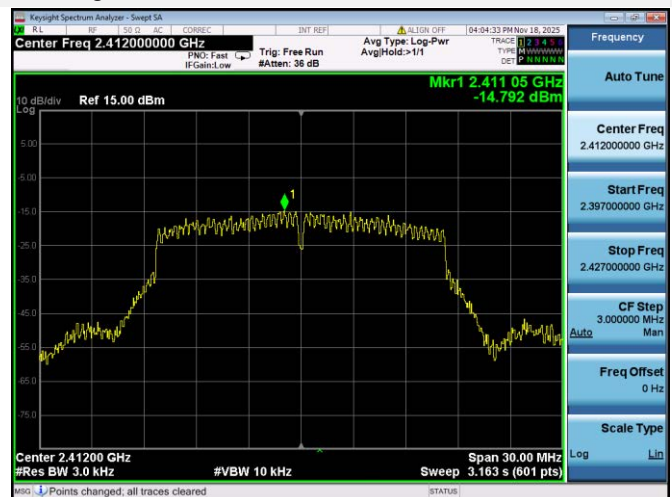
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



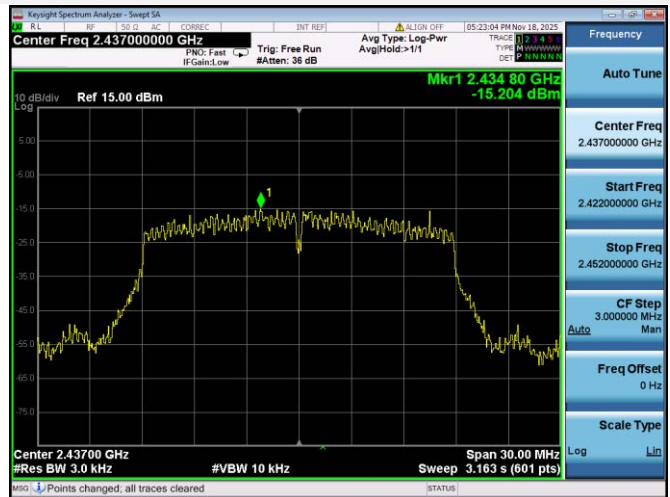
802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



802.11 n-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



Aux. Antenna:

802.11b LOW CHANNEL



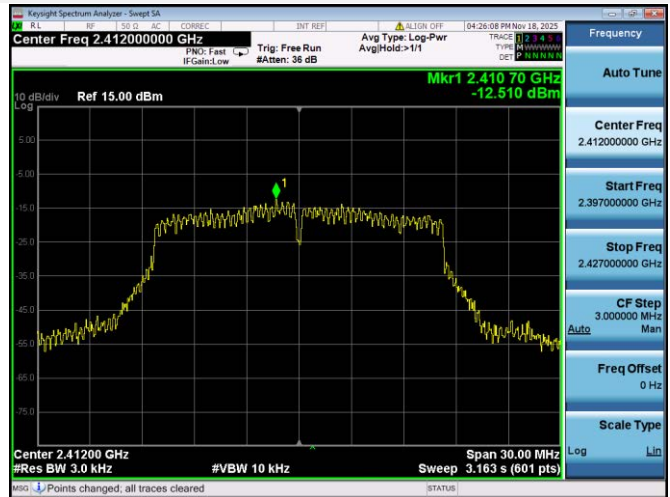
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



802.11g LOW CHANNEL



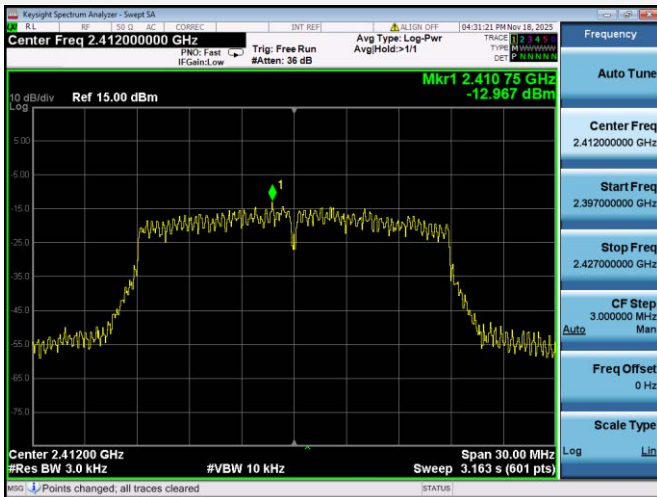
802.11g MIDDLE CHANNEL



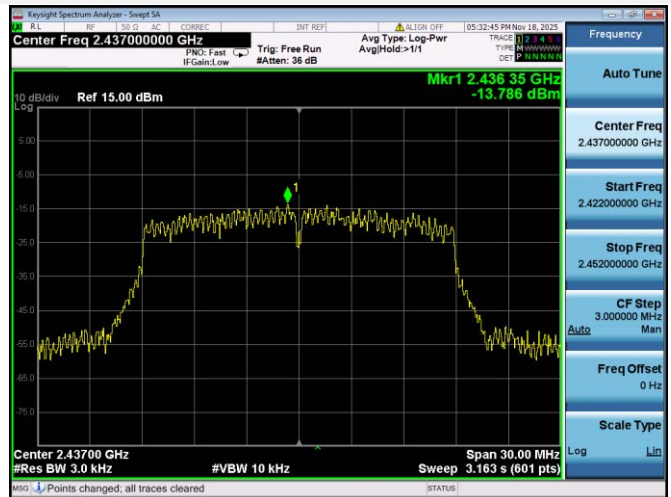
802.11g HIGH CHANNEL



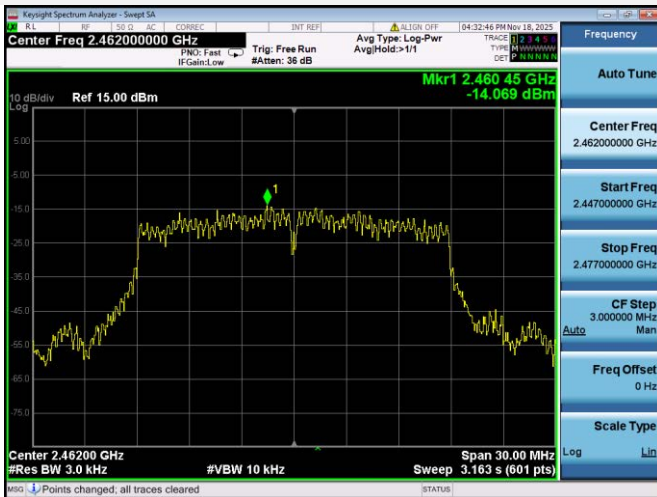
802.11n-20 MHz LOW CHANNEL



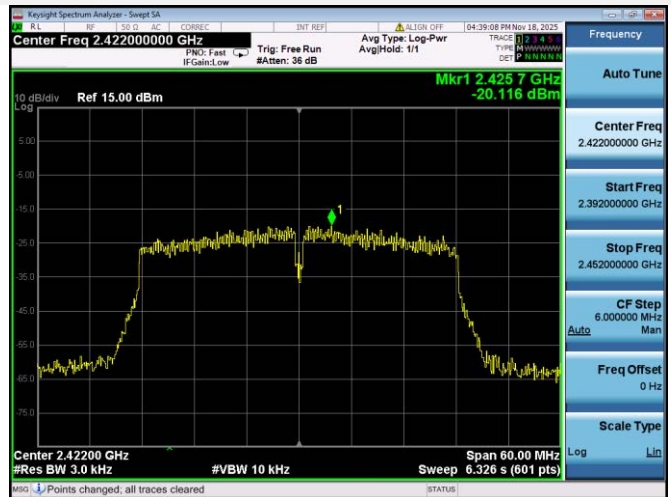
802.11n-20 MHz MIDDLE CHANNEL



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-SZ25A1283-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25A1283-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25A1283-AI.PDF”.

Statement

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--END OF REPORT--