

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test_Dipole Antenna

PIC32WM-BW1002UC, ANT 6, Main Source

Band Edges, 2.31GHz ~ 2.9GHz

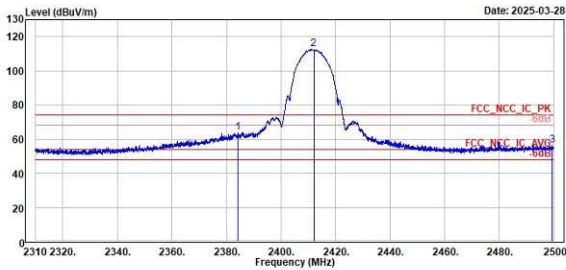
802.11b

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



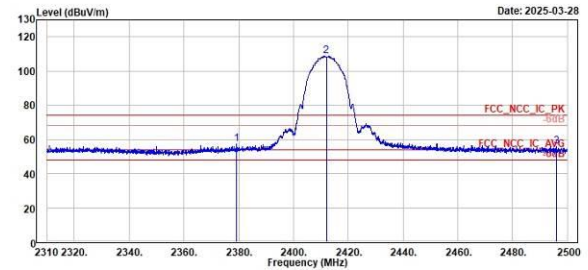
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2384.34	64.00	25.85	38.15	74.00	-10.00	305	172	Peak	Horizontal	
2 *	2412.00	112.65	74.29	38.36	74.00	38.65	305	172	Peak	Horizontal	
3	2499.48	56.40	17.78	38.62	74.00	-17.60	305	172	Peak	Horizontal	



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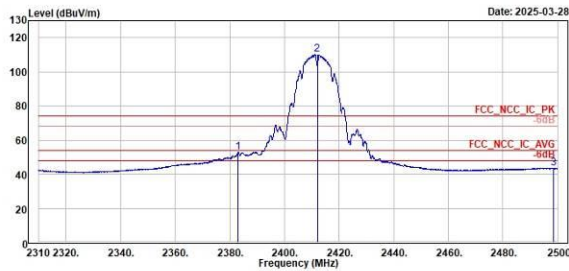
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1	2379.11	57.12	19.02	38.10	74.00	-16.88	297	291	Peak	Vertical	
2 *	2412.00	108.74	70.38	38.36	74.00	34.74	297	291	Peak	Vertical	
3	2496.06	55.68	17.06	38.62	74.00	-18.32	297	291	Peak	Vertical	

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Low Channel (Horizontal) Average



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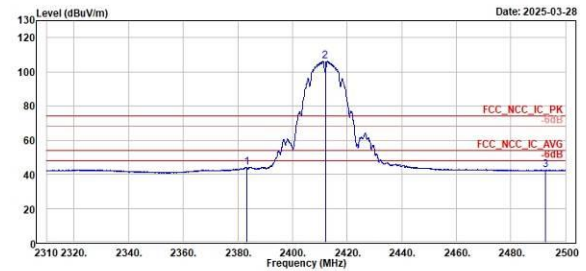


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.01	53.02	14.88	38.14	54.00	-0.98	305	172	Average	Horizontal		
2	2412.00	110.13	71.77	38.36	54.00	56.13	305	172	Average	Horizontal		
3	2498.58	43.68	5.06	38.62	54.00	-10.32	305	172	Average	Horizontal		

Low Channel (Vertical) Average



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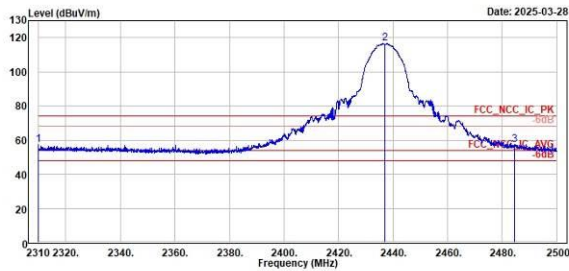
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1	2383.15	44.24	6.09	38.15	54.00	-9.76	297	291	Average	Vertical		
2	2412.00	106.24	67.88	38.36	54.00	52.24	297	291	Average	Vertical		
3	2492.64	42.51	3.90	38.61	54.00	-11.49	297	291	Average	Vertical		

802.11b

Middle Channel (Horizontal) Peak



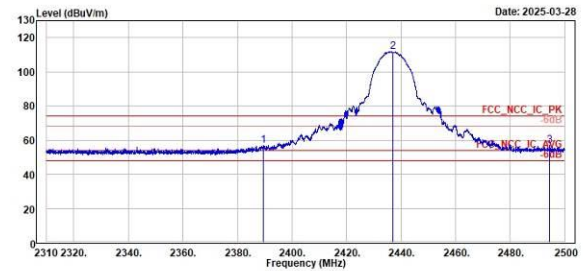
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2310.00	57.32	19.61	37.71	74.00	-16.68	332	164	Peak	Horizontal		
2 *	2437.00	116.62	78.13	38.49	74.00	42.62	332	164	Peak	Horizontal		
3	2484.66	57.51	18.91	38.60	74.00	-16.49	332	164	Peak	Horizontal		



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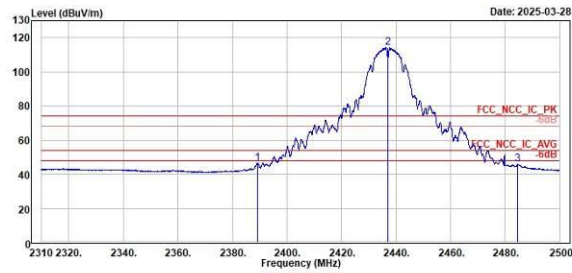
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1	2389.56	56.91	18.70	38.21	74.00	-17.09	326	288	Peak	Vertical		
2 *	2437.00	111.92	73.43	38.49	74.00	37.92	326	288	Peak	Vertical		
3	2494.54	56.72	18.11	38.61	74.00	-17.28	326	288	Peak	Vertical		

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Middle Channel (Horizontal) Average



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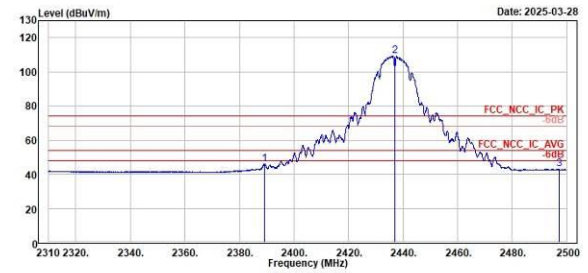


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.23	46.42	8.22	38.20	54.00	-7.58	332	164	Average	Horizontal		
2 *	2437.00	114.03	75.54	38.49	54.00	60.03	332	164	Average	Horizontal		
3	2484.66	45.99	7.39	38.60	54.00	-8.01	332	164	Average	Horizontal		

Middle Channel (Vertical) Average



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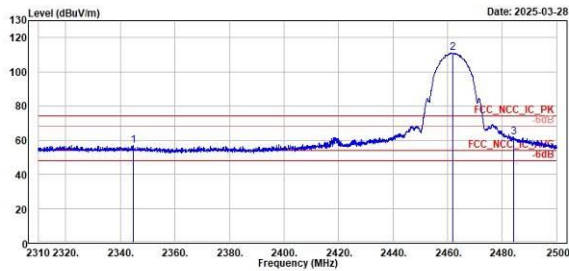
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1	2389.23	46.12	7.92	38.20	54.00	-7.88	326	288	Average	Vertical		
2 *	2437.00	109.31	70.82	38.49	54.00	55.31	326	288	Average	Vertical		
3	2497.20	43.02	4.40	38.62	54.00	-10.98	326	288	Average	Vertical		

802.11b

High Channel (Horizontal) Peak



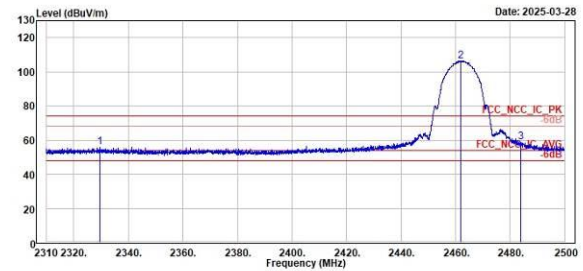
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2344.68	56.94	19.12	37.82	74.00	-17.06	238	0	Peak	Horizontal		
2 *	2462.08	119.97	72.40	38.57	74.00	36.97	238	0	Peak	Horizontal		
3	2484.09	61.93	23.33	38.60	74.00	-12.07	238	0	Peak	Horizontal		



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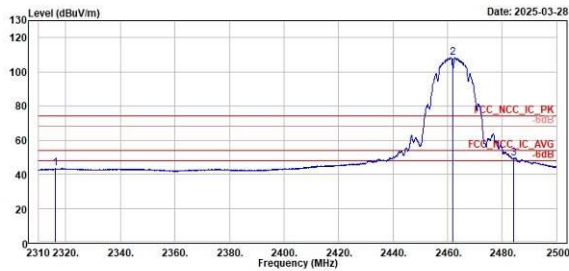
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1	2329.57	55.74	17.96	37.78	74.00	-18.26	287	289	Peak	Vertical		
2 *	2462.08	106.33	67.76	38.57	74.00	32.33	287	289	Peak	Vertical		
3	2483.85	58.62	20.82	38.60	74.00	-15.38	287	289	Peak	Vertical		

802.11b

High Channel (Horizontal) Average



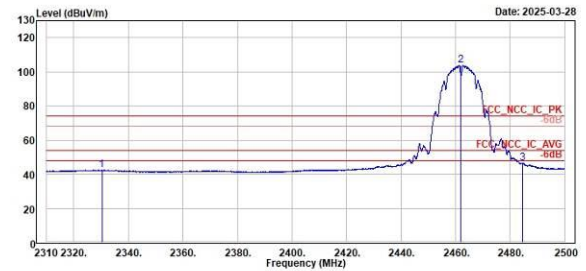
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2316.22	43.39	5.66	37.73	54.00	-10.61	238			0 Average	Horizontal	
2 *	2462.00	100.41	69.84	30.57	54.00	54.41	238			0 Average	Horizontal	
3 !	2484.18	49.43	10.83	38.60	54.00	-4.57	238			0 Average	Horizontal	



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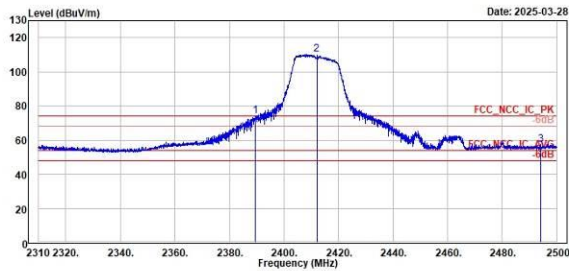
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1	2330.28	42.44	4.66	37.78	54.00	-11.56	287			289 Average	Vertical	
2 *	2462.00	103.81	65.24	38.57	54.00	49.81	287			289 Average	Vertical	
3	2484.47	46.58	7.98	38.60	54.00	-7.42	287			289 Average	Vertical	

802.11g

Low Channel (Horizontal) Peak



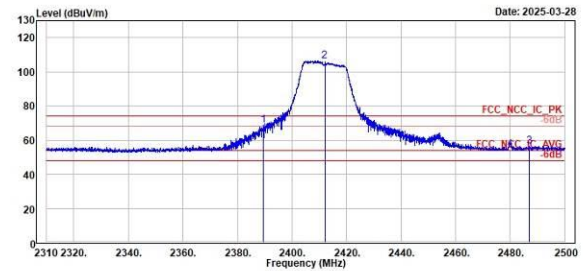
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.52	73.94	35.73	38.21	74.00	-0.06	386			Peak	Horizontal	
2	2412.00	110.10	71.82	38.36	74.00	36.10	386			Peak	Horizontal	
3	2494.25	57.25	18.64	38.61	74.00	-16.75	386			Peak	Horizontal	



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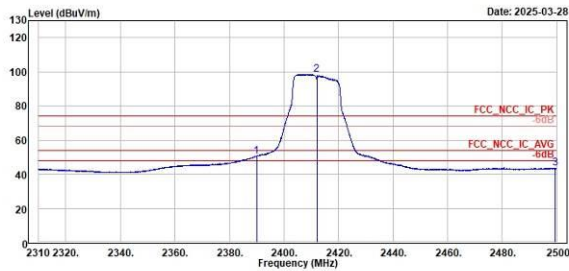
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1	2389.42	68.55	30.34	38.21	74.00	-5.45	295	288	Peak	Vertical		
2	2412.00	106.32	67.96	38.36	74.00	32.32	295	288	Peak	Vertical		
3	2487.08	56.27	17.67	38.60	74.00	-17.73	295	288	Peak	Vertical		

802.11g

Low Channel (Horizontal) Average



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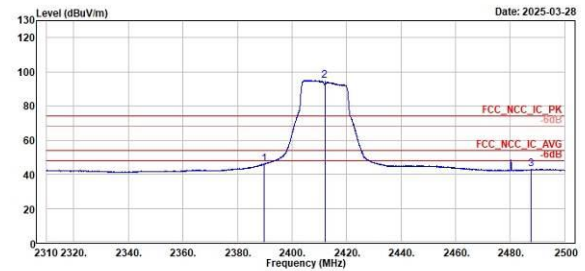


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1	2389.94	50.57	12.36	38.21	54.00	-3.43	386			0 Average	Horizontal	
2	2412.00	98.44	60.08	38.36	54.00	44.44	386			0 Average	Horizontal	
3	2499.57	43.63	5.01	38.62	54.00	-10.37	386			0 Average	Horizontal	

Low Channel (Vertical) Average



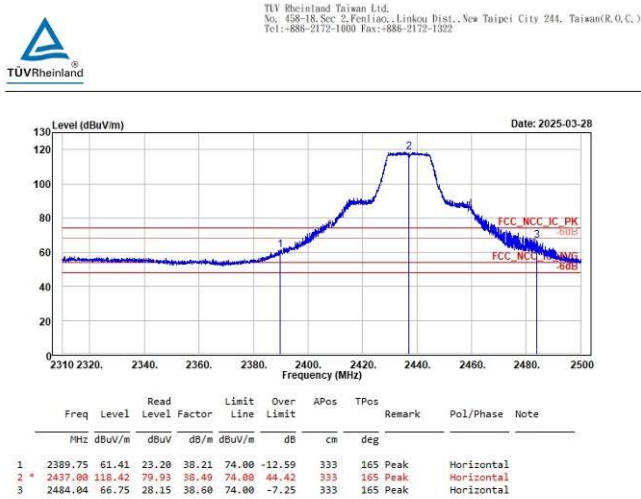
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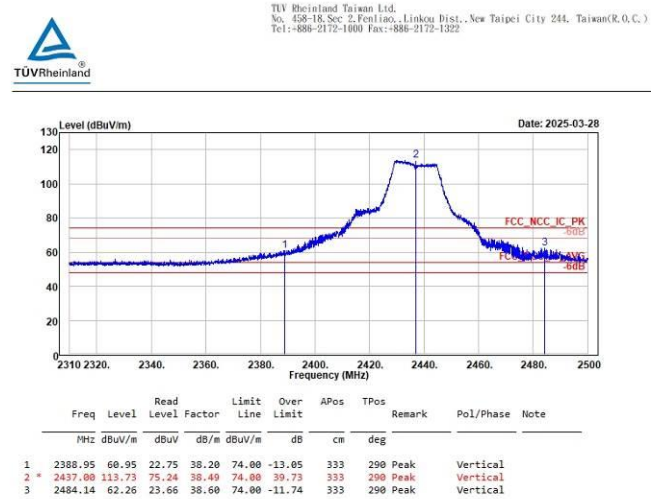
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1	2389.75	46.08	7.07	38.21	54.00	-7.92	295	288	Average	Vertical		
2	2412.00	94.88	56.52	38.36	54.00	40.88	295	288	Average	Vertical		
3	2487.70	42.95	4.34	38.61	54.00	-11.05	295	288	Average	Vertical		

802.11g

Middle Channel (Horizontal) Peak



Middle Channel (Vertical) Peak

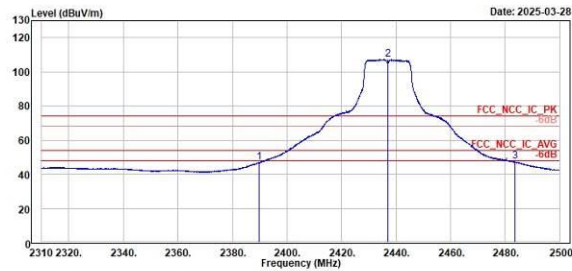


802.11g

Middle Channel (Horizontal) Average



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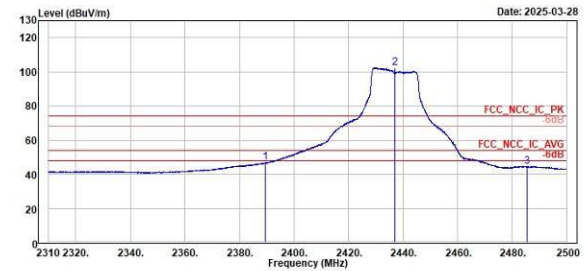


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.05	47.00	8.79	38.21	54.00	-7.00	333	165	Average	Horizontal		
2 *	2437.00	107.11	68.62	38.49	54.00	53.11	333	165	Average	Horizontal		
3	2483.47	47.26	8.66	38.60	54.00	-6.74	333	165	Average	Horizontal		

Middle Channel (Vertical) Average



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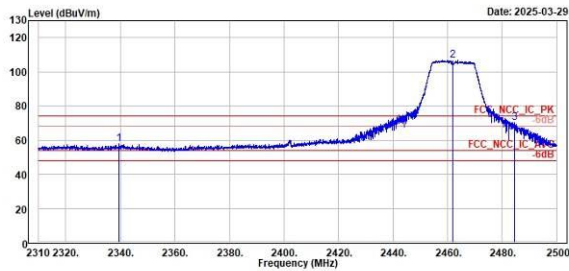
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1	2389.61	46.89	8.68	38.21	54.00	-7.11	333	290	Average	Vertical		
2 *	2437.00	102.38	63.89	38.49	54.00	48.38	333	290	Average	Vertical		
3	2485.42	44.65	6.05	38.60	54.00	-9.35	333	290	Average	Vertical		

802.11g

High Channel (Horizontal) Peak



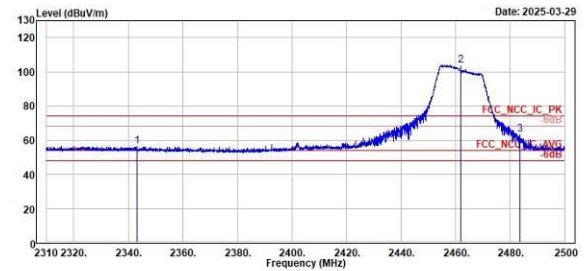
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2339.55	57.72	19.91	37.81	74.00	-16.28	240			3 Peak	Horizontal	
2 *	2462.00	106.76	68.19	38.57	74.00	32.76	240			3 Peak	Horizontal	
3 !	2484.52	70.34	31.74	38.60	74.00	-3.66	240			3 Peak	Horizontal	



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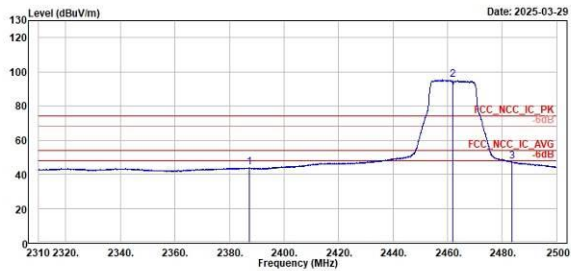
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1	2343.11	56.58	18.76	37.82	74.00	-17.42	363			288 Peak	Vertical	
2 *	2462.00	103.78	65.21	38.57	74.00	29.78	363			288 Peak	Vertical	
3	2483.47	63.23	24.63	38.60	74.00	-10.77	363			288 Peak	Vertical	

802.11g

High Channel (Horizontal) Average



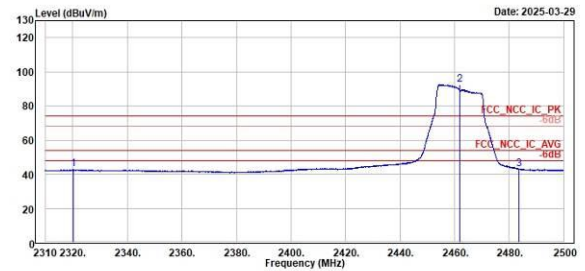
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.28	43.86	5.68	38.18	54.00	-10.14	240			3 Average	Horizontal	
2 *	2462.00	95.16	56.59	38.57	54.00	41.16	240			3 Average	Horizontal	
3	2483.57	47.43	8.83	38.60	54.00	-6.57	240			3 Average	Horizontal	



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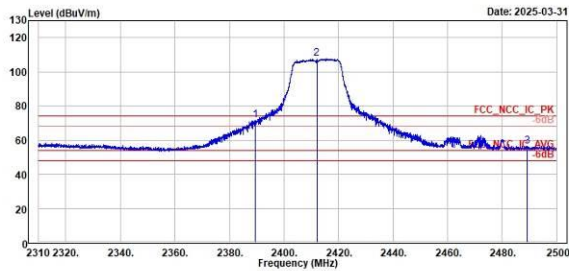
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2320.17	42.84	5.10	37.74	54.00	-11.16	363			288 Average	Vertical	
2 *	2462.00	92.47	53.90	38.57	54.00	38.47	363			288 Average	Vertical	
3	2483.52	43.21	4.61	38.60	54.00	-10.79	363			288 Average	Vertical	

802.11n HT20

Low Channel (Horizontal) Peak



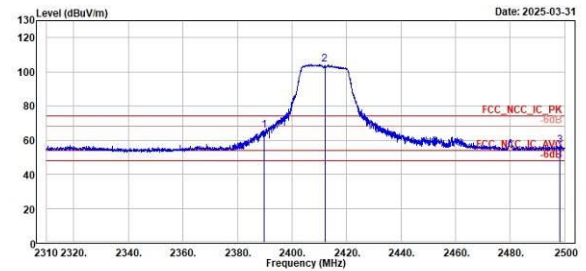
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.61	71.88	33.67	38.21	74.00	-2.12	384	339	Peak	Horizontal		
2	2412.00	107.57	69.21	38.36	74.00	33.57	384	339	Peak	Horizontal		
3	2489.17	56.59	17.98	38.61	74.00	-17.41	384	339	Peak	Horizontal		



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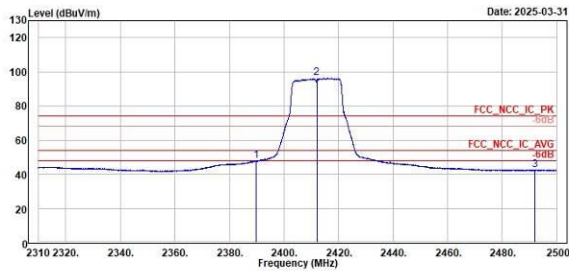
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.75	65.73	27.52	38.21	74.00	-8.27	296	288	Peak	Vertical		
2	2412.00	104.32	66.96	38.36	74.00	30.32	296	288	Peak	Vertical		
3	2489.34	56.93	18.31	38.62	74.00	-17.67	296	288	Peak	Vertical		

802.11n HT20

Low Channel (Horizontal) Average



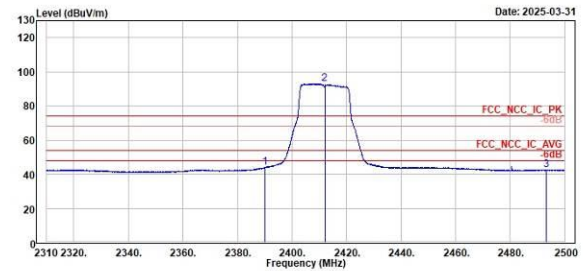
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.71	47.83	9.62	38.21	54.00	-6.17	384	339	Average	Horizontal		
2 *	2412.00	96.20	57.84	38.36	54.00	42.20	384	339	Average	Horizontal		
3	2492.07	42.71	4.10	38.61	54.00	-11.29	384	339	Average	Horizontal		



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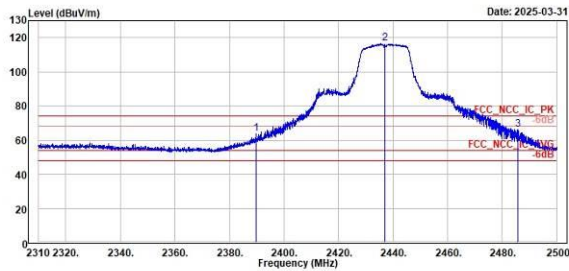
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.99	44.00	5.79	38.21	54.00	-10.00	296	288	Average	Vertical		
2 *	2412.00	92.96	54.60	38.36	54.00	38.96	296	288	Average	Vertical		
3	2493.35	42.72	4.11	38.61	54.00	-11.28	296	288	Average	Vertical		

802.11n HT20

Middle Channel (Horizontal) Peak



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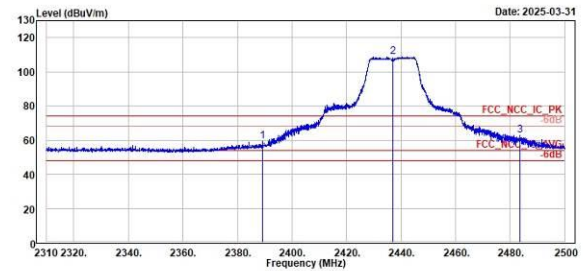


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.71	63.57	25.36	38.21	74.00	-10.43	374	357	Peak	Horizontal		
2 *	2437.00	116.59	70.10	38.49	74.00	42.59	374	357	Peak	Horizontal		
3	2485.66	66.45	27.85	38.60	74.00	-7.55	374	357	Peak	Horizontal		

Middle Channel (Vertical) Peak



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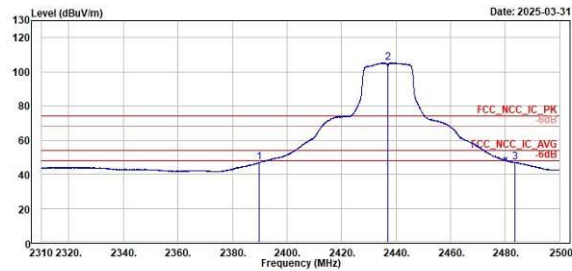
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.09	59.28	21.00	38.20	74.00	-14.72	333	314	Peak	Vertical		
2 *	2437.00	100.04	70.35	38.49	74.00	34.04	333	314	Peak	Vertical		
3	2483.61	62.78	24.18	38.60	74.00	-11.22	333	314	Peak	Vertical		

802.11n HT20

Middle Channel (Horizontal) Average



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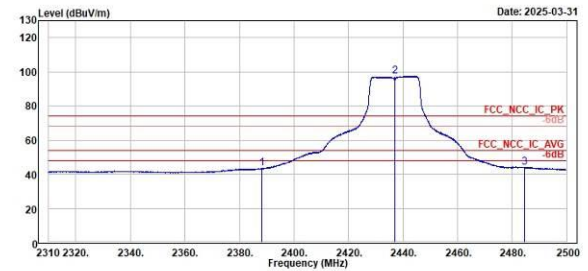


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	46.88	8.67	38.21	54.00	-7.12	374	357	Average	Horizontal		
2 *	2437.00	105.32	66.83	38.49	54.00	51.32	374	357	Average	Horizontal		
3	2483.57	47.12	8.52	38.60	54.00	-6.88	374	357	Average	Horizontal		

Middle Channel (Vertical) Average



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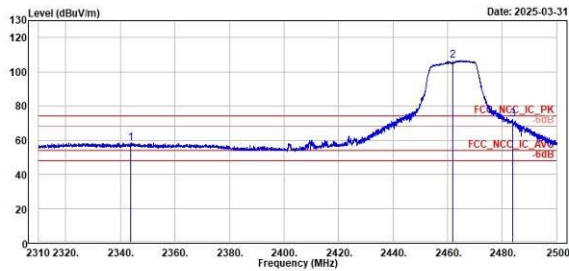
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	43.65	5.46	38.19	54.00	-10.35	333	314	Average	Vertical		
2 *	2437.00	97.48	58.99	38.49	54.00	43.48	333	314	Average	Vertical		
3	2484.56	44.15	5.55	38.60	54.00	-9.85	333	314	Average	Vertical		

802.11n HT20

High Channel (Horizontal) Peak



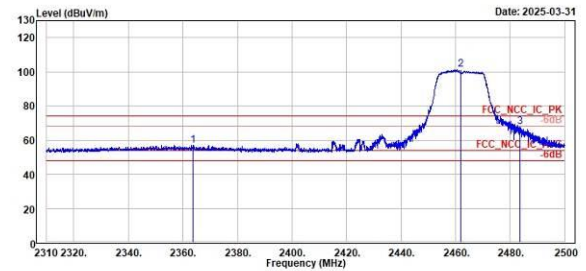
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2343.92	58.36	20.54	37.82	74.00	-15.64	364	358 Peak	Horizontal	
2 *	2462.00	106.59	60.02	38.57	74.00	32.59	364	358 Peak	Horizontal	
3 !	2483.85	72.15	33.55	38.60	74.00	-1.85	364	358 Peak	Horizontal	



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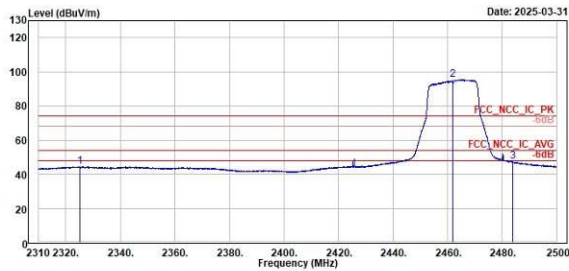
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2363.82	56.85	18.88	37.97	74.00	-17.15	396	251 Peak	Vertical	
2 *	2462.00	101.39	62.82	38.57	74.00	27.39	396	251 Peak	Vertical	
3	2483.57	67.88	29.28	38.60	74.00	-6.12	396	251 Peak	Vertical	

802.11n HT20

High Channel (Horizontal) Average



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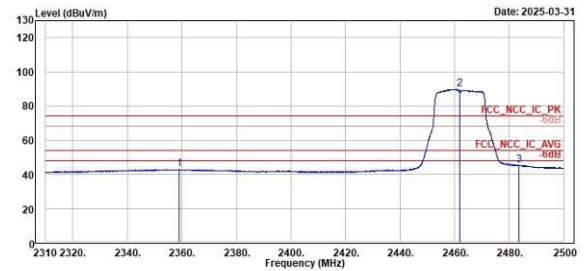


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2325.15	44.46	6.70	37.76	54.00	-9.54	364	358	Average	Horizontal		
2 *	2462.00	95.41	56.84	38.57	54.00	41.41	364	358	Average	Horizontal		
3	2483.80	47.45	8.85	38.60	54.00	-6.55	364	358	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2359.16	42.89	4.97	37.92	54.00	-11.11	396	251	Average	Vertical		
2 *	2462.00	89.73	51.16	38.57	54.00	35.73	396	251	Average	Vertical		
3	2483.57	45.23	6.63	38.60	54.00	-8.77	396	251	Average	Vertical		

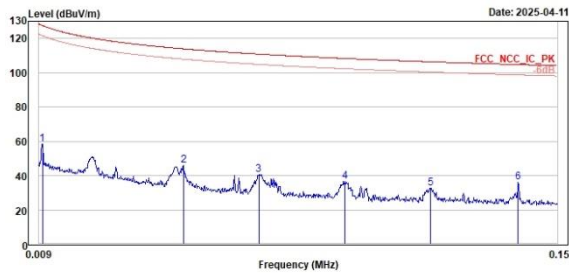
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.11b

Low Channel(Open) 9kHz~150kHz



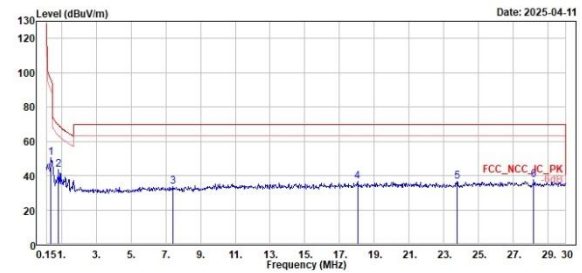
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.01	58.56	48.45	18.11	127.68	-69.04	100	209	Peak	Open		
2	0.05	45.77	26.75	19.02	113.91	-68.14	100	189	Peak	Open		
3	0.07	40.64	22.19	18.45	110.84	-70.20	100	209	Peak	Open		
4	0.09	36.51	18.49	18.02	108.30	-71.79	100	194	Peak	Open		
5	0.12	32.85	14.73	18.12	106.35	-73.50	100	221	Peak	Open		
6	0.14	36.02	17.75	18.27	104.72	-68.70	100	180	Peak	Open		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.39	50.46	31.82	18.64	95.81	-45.35	100	197	Peak	Open		
2	0.84	43.38	24.45	18.93	69.15	-25.77	100	249	Peak	Open		
3	7.43	33.57	12.80	20.77	69.50	-35.93	100	169	Peak	Open		
4	18.03	36.38	13.75	22.63	69.50	-33.12	100	68	Peak	Open		
5	23.76	36.39	14.15	22.24	69.50	-33.11	100	176	Peak	Open		
6	28.18	37.71	14.64	23.07	69.50	-31.79	100	76	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

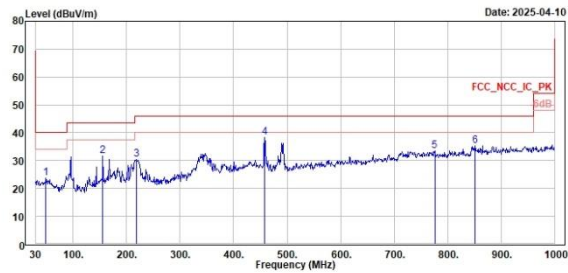
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



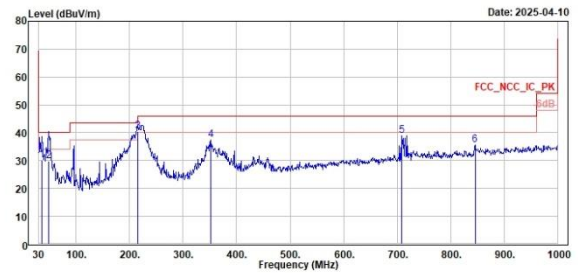
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	49.40	23.73	29.49	-5.76	40.00	-16.27	200	145	Peak	Horizontal		
2	155.13	31.63	37.43	-5.80	43.50	-11.87	300	290	Peak	Horizontal		
3	219.15	30.30	38.54	-8.24	46.00	-15.70	300	269	Peak	Horizontal		
4	457.77	38.22	40.24	-2.02	46.00	-7.78	200	285	Peak	Horizontal		
5	775.93	33.44	29.66	3.78	46.00	-12.56	300	286	Peak	Horizontal		
6	851.59	35.23	31.01	4.22	46.00	-10.77	100	224	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	35.82	29.98	37.30	-7.32	40.00	-10.02	200	27	QP	Vertical		
2	49.40	29.83	35.59	-5.76	40.00	-10.17	100	149	QP	Vertical		
3	215.27	40.40	48.70	-8.30	43.50	-3.10	100	218	QP	Vertical		
4	351.07	37.46	41.78	-4.32	46.00	-8.54	100	215	Peak	Vertical		
5	708.03	38.95	36.62	2.33	46.00	-7.05	200	280	Peak	Vertical		
6	845.77	35.62	31.53	4.09	46.00	-10.38	300	87	Peak	Vertical		

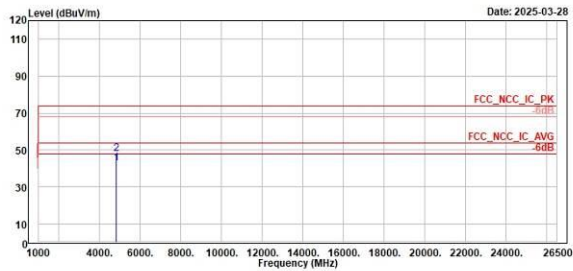
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b

Low Channel (Horizontal)



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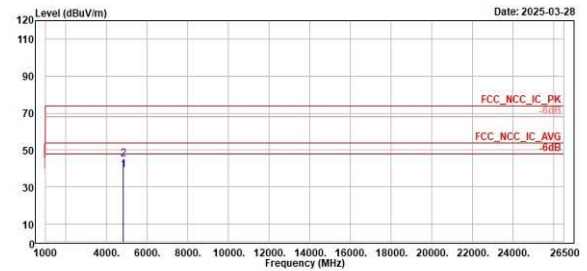


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	42.88	50.75	-7.87	54.00	-11.12	312	360	Average	Horizontal		
2	4824.00	47.75	55.62	-7.87	74.00	-26.25	312	360	Peak	Horizontal		

Low Channel (Vertical)



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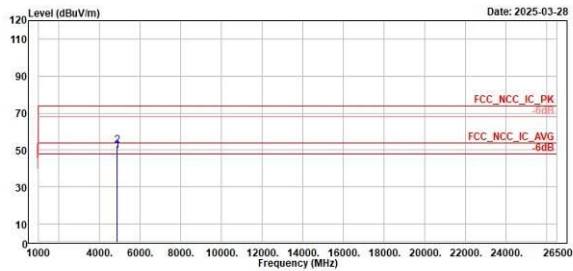
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1	4824.00	39.25	47.12	-7.87	54.00	-14.75	382	90	Average	Vertical		
2	4824.00	45.37	53.24	-7.87	74.00	-28.63	382	90	Peak	Vertical		

802.11b

Middle Channel (Horizontal)



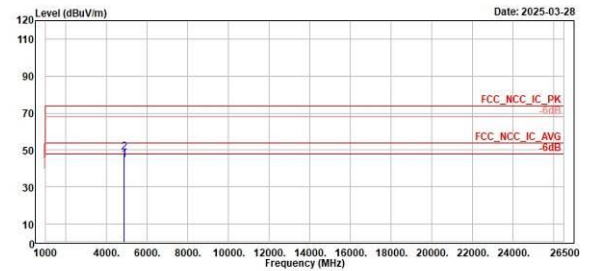
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4874.00	49.69	57.42	-7.73	54.00	-4.31	358	30	Average	Horizontal		
2	4874.00	52.42	60.15	-7.73	74.00	-21.58	358	30	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4874.00	44.59	52.32	-7.73	54.00	-9.41	185	174	Average	Vertical		
2	4874.00	48.92	56.65	-7.73	74.00	-25.08	185	174	Peak	Vertical		

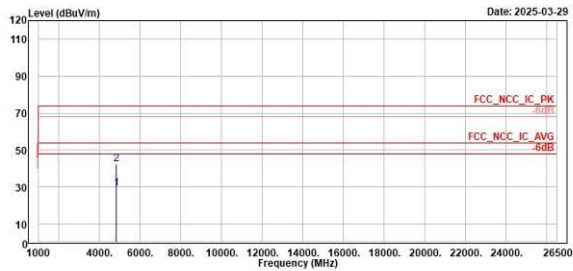
802.11g

Low Channel (Horizontal)

Low Channel (Vertical)



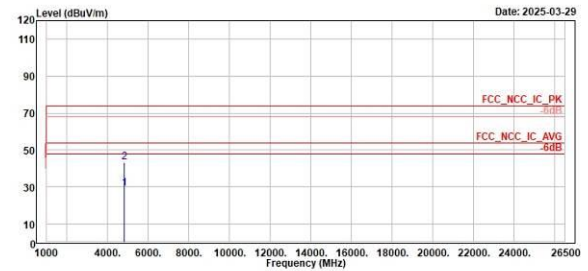
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	29.18	37.05	-7.87	54.00	-24.82	348	360	Average	Horizontal		
2	4824.00	42.44	50.31	-7.87	74.00	-31.56	348	360	Peak	Horizontal		



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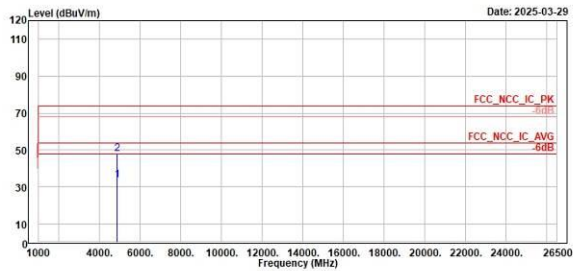
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	29.01	36.88	-7.87	54.00	-24.99	127	360	Average	Vertical		
2	4824.00	43.13	51.00	-7.87	74.00	-30.87	127	360	Peak	Vertical		

802.11g

Middle Channel (Horizontal)



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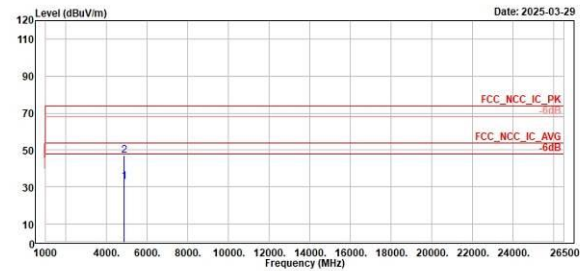


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4874.00	33.83	41.56	-7.73	54.00	-20.17	200	357	Average	Horizontal		
2	4874.00	47.77	55.50	-7.73	74.00	-26.23	200	357	Peak	Horizontal		

Middle Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4874.00	32.88	40.61	-7.73	54.00	-21.12	400	63	Average	Vertical		
2	4874.00	46.89	54.62	-7.73	74.00	-27.11	400	63	Peak	Vertical		

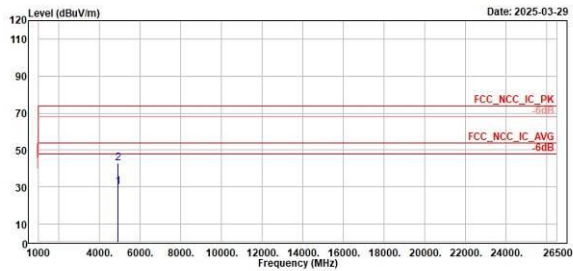
802.11g

High Channel (Horizontal)

High Channel (Vertical)



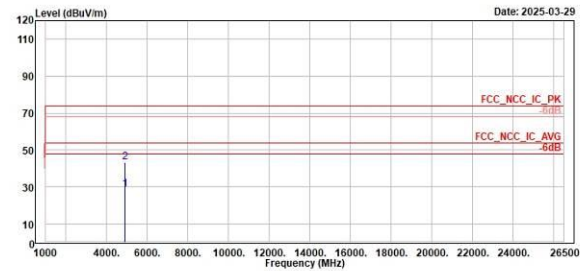
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4924.00	30.32	37.86	-7.54	54.00	-23.68	300	174	Average	Horizontal		
2	4924.00	42.76	50.30	-7.54	74.00	-31.24	300	174	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4924.00	28.73	36.27	-7.54	54.00	-25.27	400	6	Average	Vertical		
2	4924.00	43.16	50.70	-7.54	74.00	-30.84	400	6	Peak	Vertical		

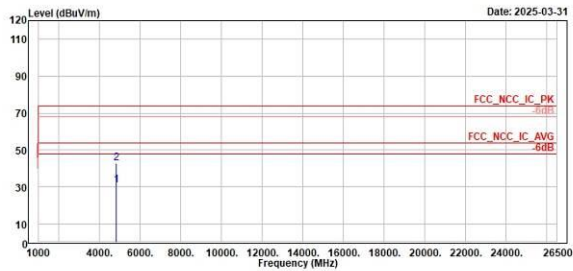
802.11n HT20

Low Channel (Horizontal)

Low Channel (Vertical)



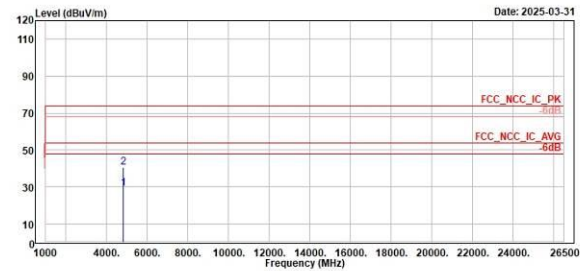
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	31.03	40.89	-9.06	54.00	-22.97	300	164	Average	Horizontal	
2	4824.00	42.69	51.75	-9.06	74.00	-31.31	300	164	Peak	Horizontal	



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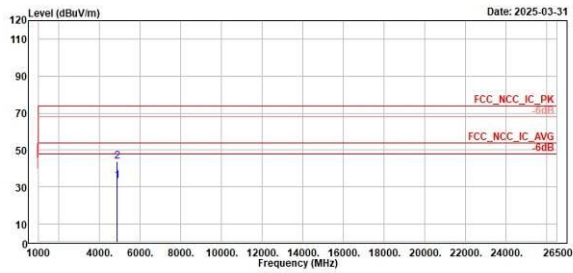
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4824.00	29.42	38.48	-9.06	54.00	-24.58	300	216	Average	Vertical	
2	4824.00	40.67	49.73	-9.06	74.00	-33.33	300	216	Peak	Vertical	

802.11n HT20

Middle Channel (Horizontal)



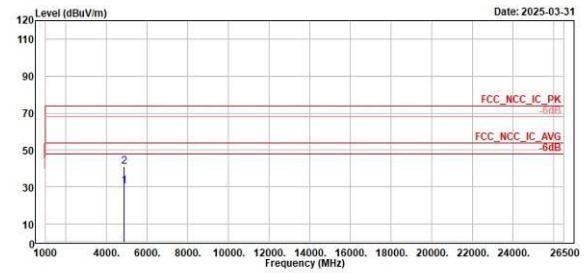
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4874.00	33.12	42.03	-8.91	54.00	-20.88	100	333	Average	Horizontal		
2	4874.00	43.99	52.90	-8.91	74.00	-30.01	100	333	Peak	Horizontal		



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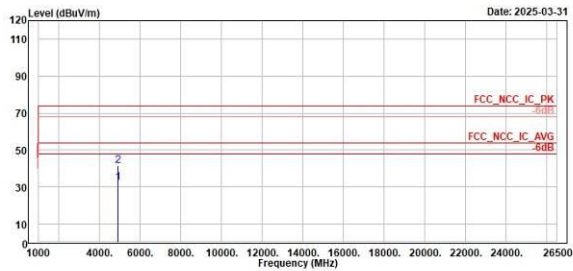
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4874.00	30.36	39.27	-8.91	54.00	-23.64	300	43	Average	Vertical		
2	4874.00	41.16	50.07	-8.91	74.00	-32.84	300	43	Peak	Vertical		

802.11n HT20

High Channel (Horizontal)



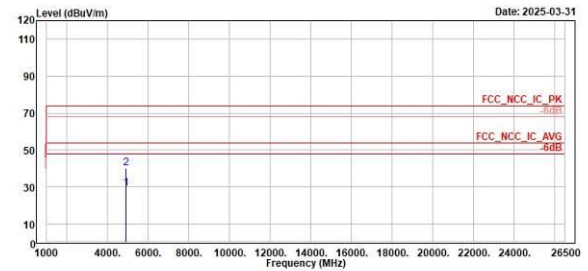
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4924.00	32.35	41.05	-8.70	54.00	-21.65	300	152	Average	Horizontal		
2	4924.00	41.74	50.44	-8.70	74.00	-32.26	300	152	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4924.00	29.38	38.08	-8.70	54.00	-24.62	100	19	Average	Vertical		
2	4924.00	40.22	48.92	-8.70	74.00	-33.78	100	19	Peak	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

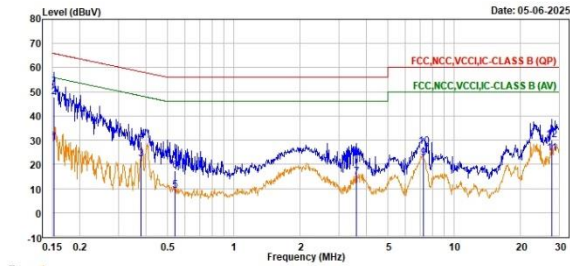
Worst Band

(Line)

(Neutral)



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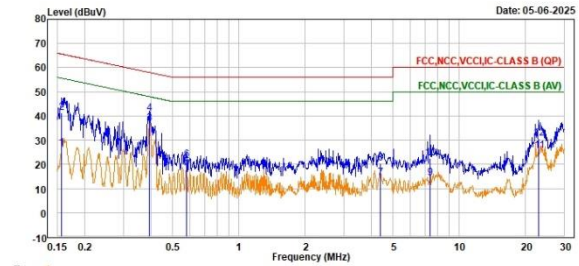


Trace: 1

	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.15	29.09	19.46	9.63	55.88	-26.79	Average	line1		
2	0.15	47.83	38.20	9.63	65.08	-18.05	QP	line1		
3	0.38	22.29	12.66	9.63	48.30	-26.01	Average	line1		
4	0.38	29.43	19.80	9.63	58.30	-28.87	QP	line1		
5	0.54	9.14	-0.49	9.63	46.00	-36.86	Average	line1		
6	0.54	17.42	7.79	9.63	56.00	-38.58	QP	line1		
7	3.61	14.49	4.81	9.68	46.00	-31.51	Average	line1		
8	3.61	22.57	12.89	9.68	56.00	-33.43	QP	line1		
9	7.28	22.54	12.82	9.72	50.00	-27.46	Average	line1		
10	7.28	27.40	17.68	9.72	60.00	-32.60	QP	line1		
11	27.70	24.49	14.80	9.69	50.00	-25.51	Average	line1		
12	27.70	29.91	20.22	9.69	60.00	-30.09	QP	line1		



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Trace: 1

	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.16	26.48	16.84	9.64	55.63	-29.15	Average	neutral		
2	0.16	41.40	31.76	9.64	65.63	-24.23	QP	neutral		
3	0.39	37.05	27.42	9.63	48.01	-10.96	Average	neutral		
4	0.39	40.91	31.28	9.63	58.01	-17.10	QP	neutral		
5	0.58	18.74	9.11	9.63	46.00	-27.26	Average	neutral		
6	0.58	21.92	12.29	9.63	56.00	-34.08	QP	neutral		
7	4.38	14.15	4.45	9.70	46.00	-31.65	Average	neutral		
8	4.38	20.59	10.89	9.70	56.00	-35.41	QP	neutral		
9	7.39	14.47	4.73	9.74	50.00	-35.53	Average	neutral		
10	7.39	22.41	12.67	9.74	60.00	-37.59	QP	neutral		
11	23.04	25.46	15.61	9.85	50.00	-24.54	Average	neutral		
12	23.04	30.73	20.88	9.85	60.00	-29.27	QP	neutral		

PIC32WM-BW1002UC, ANT 6, 2nd Source
Band Edges, 2.31GHz ~ 2.9GHz

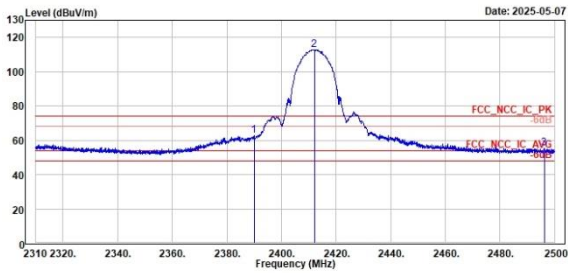
802.11b

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



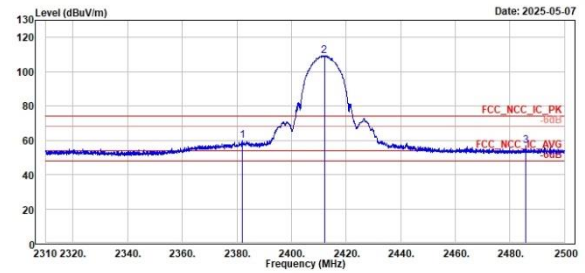
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.94	62.66	24.58	38.08	74.00	-11.34	303	342	Peak	Horizontal	
2 *	2412.00	112.92	74.68	38.24	74.00	38.92	303	342	Peak	Horizontal	
3	2496.20	55.42	16.93	38.49	74.00	-18.58	303	342	Peak	Horizontal	



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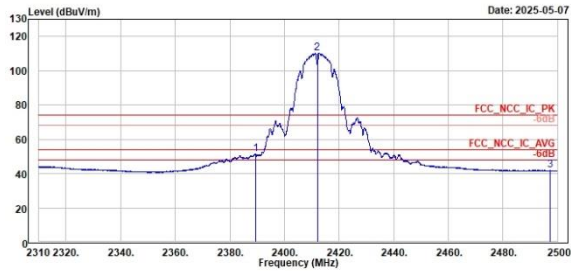
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2382.11	59.99	21.08	38.01	74.00	-14.01	298	290	Peak	Vertical	
2 *	2412.00	109.27	71.83	38.24	74.00	35.27	298	290	Peak	Vertical	
3	2485.85	56.77	18.29	38.48	74.00	-17.23	298	290	Peak	Vertical	

802.11b

Low Channel (Horizontal) Average



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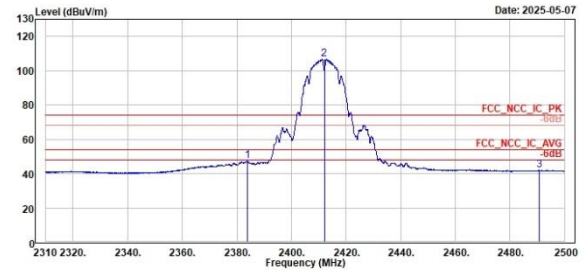


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.33	51.26	13.19	38.07	54.00	-2.74	393	342	Average	Horizontal		
2	2412.00	110.34	72.10	38.24	54.00	56.34	393	342	Average	Horizontal		
3	2497.25	42.03	3.54	38.49	54.00	-11.97	393	342	Average	Horizontal		

Low Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.82	47.40	9.38	38.02	54.00	-6.60	298	290	Average	Vertical		
2	2412.00	106.68	68.44	38.24	54.00	52.68	298	290	Average	Vertical		
3	2490.64	41.88	3.40	38.48	54.00	-12.12	298	290	Average	Vertical		

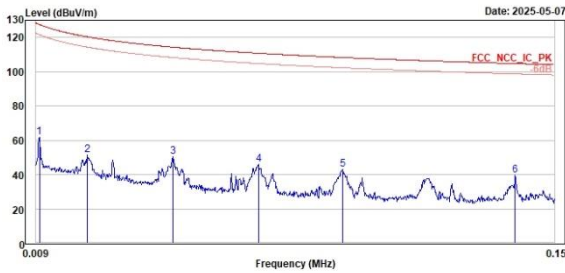
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.11b

Low Channel(Open) 9kHz~150kHz



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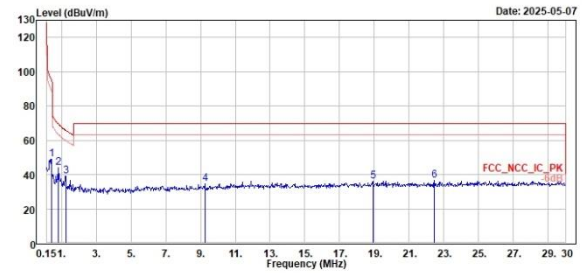


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	61.63	43.52	18.11	127.60	-65.97	100	95 Peak	Open	
2	0.02	51.61	31.94	19.67	120.32	-68.71	100	152 Peak	Open	
3	0.05	50.34	31.32	19.02	114.27	-63.93	100	265 Peak	Open	
4	0.07	46.07	27.58	18.49	110.76	-64.69	100	265 Peak	Open	
5	0.09	43.11	25.09	18.02	108.29	-65.18	100	74 Peak	Open	
6	0.14	39.44	21.17	18.27	104.72	-65.28	100	221 Peak	Open	

Low Channel(Open) 150kHz~30MHz



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.42	48.99	30.32	18.67	95.17	-46.18	100	43 Peak	Open	
2	0.84	43.98	25.05	18.93	69.15	-25.17	100	213 Peak	Open	
3	1.25	39.15	20.36	18.79	65.64	-26.49	100	43 Peak	Open	
4	9.25	34.69	13.77	20.92	69.50	-34.81	100	143 Peak	Open	
5	18.93	36.24	13.53	22.71	69.50	-33.26	100	48 Peak	Open	
6	22.45	36.35	14.13	22.22	69.50	-33.15	100	35 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

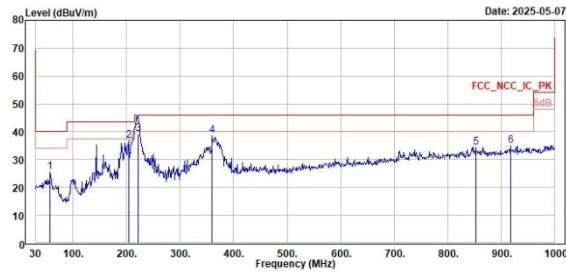
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



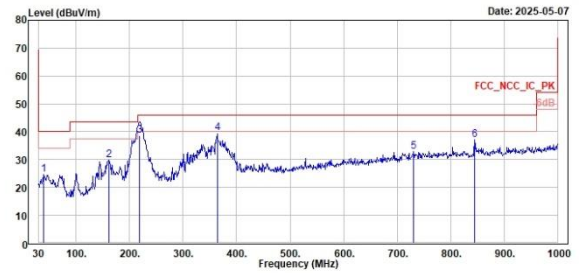
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	57.16	25.53	31.50	-5.97	40.00	-14.47	141	360 Peak	Horizontal	
2	203.63	36.67	44.96	-8.29	43.50	-6.83	100	218 Peak	Horizontal	
3	221.09	39.31	47.55	-8.24	46.00	-6.69	100	262 QP	Horizontal	
4	359.00	38.60	42.58	-3.98	46.00	-7.40	100	165 Peak	Horizontal	
5	852.56	34.41	30.00	4.41	46.00	-11.59	200	251 Peak	Horizontal	
6	917.55	34.87	29.50	5.37	46.00	-11.13	200	154 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	39.70	24.78	31.48	-6.70	40.00	-15.22	100	243 Peak	Vertical	
2	161.92	29.94	35.78	-5.84	43.50	-13.56	100	257 Peak	Vertical	
3	219.15	38.49	46.82	-8.33	46.00	-7.51	100	351 QP	Vertical	
4	363.68	39.59	43.42	-3.83	46.00	-6.41	200	342 Peak	Vertical	
5	731.31	32.73	29.77	2.96	46.00	-13.27	123	360 Peak	Vertical	
6	844.80	37.05	32.81	4.24	46.00	-8.95	100	128 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

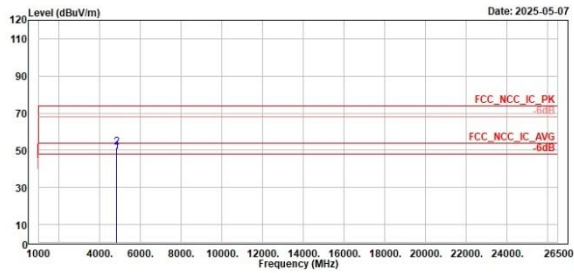
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



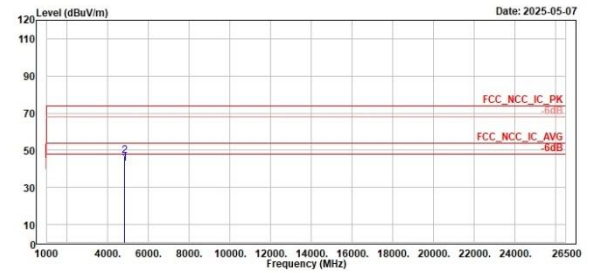
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4824.00	49.16	58.35	-9.19	54.00	-4.84	327	333 Average	Horizontal	
2	4824.00	51.67	60.86	-9.19	74.00	-22.33	327	333 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4824.00	42.84	52.03	-9.19	54.00	-11.16	267	208 Average	Vertical	
2	4824.00	47.07	56.26	-9.19	74.00	-26.93	267	208 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

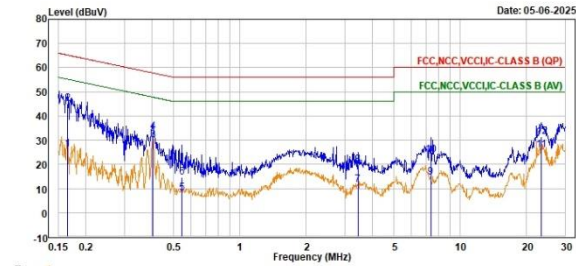
Worst Band

(Line)

(Neutral)



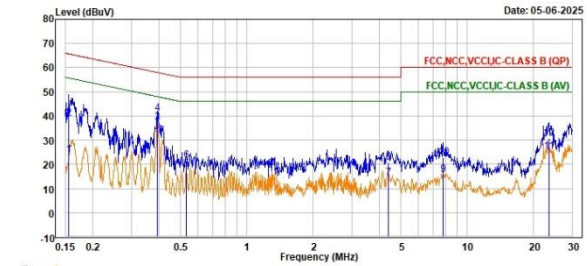
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Trace: 1	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.16	26.38	16.75	9.63	55.21	-28.83	Average	line1		
2	0.16	45.00	35.37	9.63	65.21	-20.21	QP	line1		
3	0.40	30.04	20.41	9.63	47.84	-17.80	Average	line1		
4	0.40	33.59	23.96	9.63	57.84	-24.25	QP	line1		
5	0.55	8.08	-1.55	9.63	46.00	-37.92	Average	line1		
6	0.55	14.56	4.93	9.63	56.00	-41.44	QP	line1		
7	3.43	11.62	1.94	9.68	46.00	-34.38	Average	line1		
8	3.43	19.71	10.03	9.68	56.00	-36.29	QP	line1		
9	7.36	14.61	4.89	9.72	50.00	-35.39	Average	line1		
10	7.36	23.99	14.27	9.72	60.00	-36.01	QP	line1		
11	23.38	26.02	16.31	9.71	50.00	-23.98	Average	line1		
12	23.38	31.30	21.59	9.71	60.00	-28.70	QP	line1		



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Trace: 1	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	dB			
1	0.16	23.78	14.14	9.64	55.71	-31.93	Average	neutral		
2	0.16	38.93	29.29	9.64	65.71	-26.78	QP	neutral		
3	0.39	37.32	27.69	9.63	48.01	-10.69	Average	neutral		
4	0.39	40.88	31.25	9.63	58.01	-17.13	QP	neutral		
5	0.53	17.97	8.34	9.63	46.00	-28.03	Average	neutral		
6	0.53	21.63	12.00	9.63	56.00	-34.37	QP	neutral		
7	4.38	14.36	4.66	9.70	46.00	-31.64	Average	neutral		
8	4.38	20.76	11.06	9.70	56.00	-35.24	QP	neutral		
9	7.77	15.69	5.93	9.76	50.00	-34.31	Average	neutral		
10	7.77	22.90	13.14	9.76	60.00	-37.10	QP	neutral		
11	23.50	25.32	15.48	9.84	50.00	-24.68	Average	neutral		
12	23.50	30.70	20.86	9.84	60.00	-29.30	QP	neutral		

PIC32WM-BW1002UE, ANT 6, Main Source
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

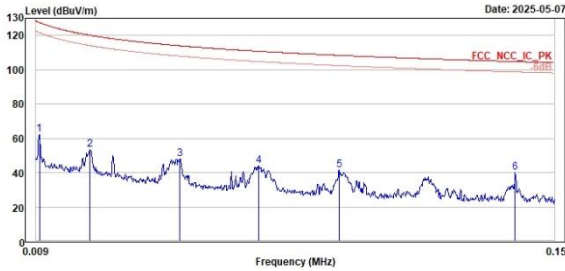
802.11b

Low Channel(Open) 9kHz~150kHz

Low Channel(Open) 150kHz~30MHz



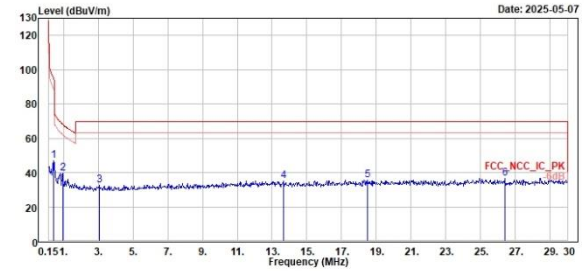
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	62.10	43.99	18.11	127.60	-65.50	100	128 Peak	Open	
2	0.02	53.31	35.62	19.69	120.11	-66.80	100	273 Peak	Open	
3	0.05	47.84	28.82	19.02	113.93	-66.09	100	273 Peak	Open	
4	0.07	43.82	25.33	18.49	110.76	-66.94	100	294 Peak	Open	
5	0.09	41.58	23.56	18.02	108.37	-66.79	100	256 Peak	Open	
6	0.14	40.84	21.77	18.27	104.72	-64.68	100	95 Peak	Open	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.45	46.99	28.29	18.70	94.57	-47.58	100	193 Peak	Open	
2	0.96	39.72	20.50	18.82	68.00	-28.28	100	193 Peak	Open	
3	3.05	32.71	13.72	18.99	69.50	-36.79	100	95 Peak	Open	
4	13.64	34.87	13.32	21.55	69.50	-34.63	100	352 Peak	Open	
5	18.51	35.72	13.06	22.66	69.50	-33.78	100	126 Peak	Open	
6	26.39	36.78	13.91	22.87	69.50	-32.72	100	131 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

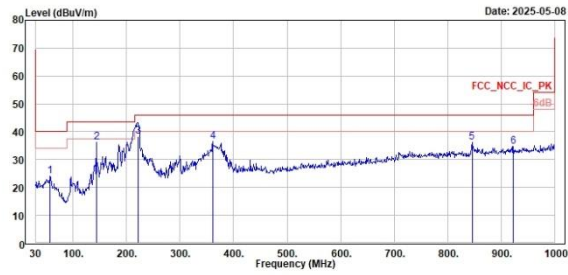
802.11b

Low Channel (Horizontal)

Low Channel (Vertical)



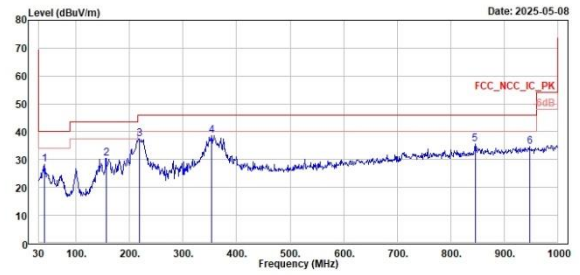
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	57.16	23.98	29.95	-5.97	40.00	-16.02	100	172 Peak	Horizontal	
2	143.49	36.30	42.81	-6.51	43.50	-7.20	200	82 Peak	Horizontal	
3	221.09	38.29	46.53	-8.24	46.00	-7.71	200	273 QP	Horizontal	
4	360.77	36.36	40.30	-3.94	46.00	-9.64	100	3 Peak	Horizontal	
5	845.77	36.14	31.88	4.26	46.00	-9.86	200	64 Peak	Horizontal	
6	923.37	34.74	29.40	5.34	46.00	-11.26	100	275 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	40.67	28.30	34.96	-6.66	40.00	-11.70	100	285 Peak	Vertical	
2	156.10	30.41	36.30	-5.89	43.50	-13.09	100	271 Peak	Vertical	
3	218.18	37.55	45.90	-8.35	46.00	-8.45	100	76 Peak	Vertical	
4	353.01	38.72	42.92	-4.20	46.00	-7.28	200	360 Peak	Vertical	
5	845.77	35.64	31.38	4.26	46.00	-10.36	100	6 Peak	Vertical	
6	947.62	34.63	28.73	5.90	46.00	-11.37	200	0 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

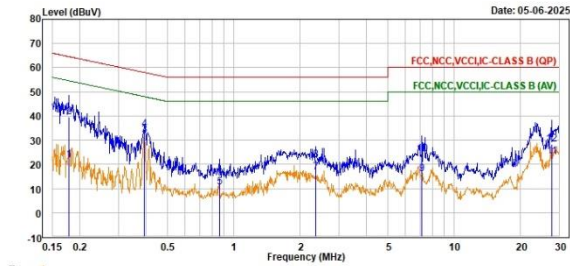
Worst Band

(Line)

(Neutral)



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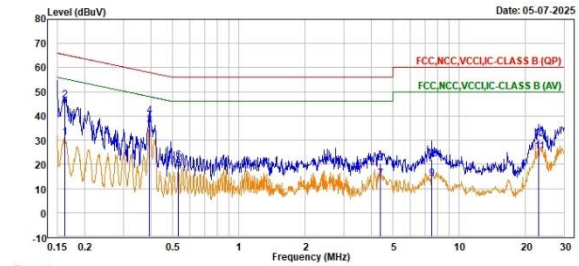


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.18	21.97	12.34	9.63	54.59	-32.62	Average	line1	
2	0.18	39.52	29.89	9.63	64.59	-25.07	QP	line1	
3	0.39	32.02	22.39	9.63	48.05	-16.03	Average	line1	
4	0.39	34.41	24.78	9.63	58.05	-23.64	QP	line1	
5	0.86	10.39	0.75	9.64	46.00	-35.61	Average	line1	
6	0.86	14.32	4.68	9.64	56.00	-41.68	QP	line1	
7	2.35	16.70	7.04	9.66	46.00	-29.30	Average	line1	
8	2.35	21.79	12.13	9.66	56.00	-34.21	QP	line1	
9	7.14	15.90	6.18	9.72	50.00	-34.10	Average	line1	
10	7.14	24.36	14.64	9.72	60.00	-35.64	QP	line1	
11	27.70	23.28	13.59	9.69	50.00	-26.72	Average	line1	
12	27.70	26.46	16.79	9.69	60.00	-31.52	QP	line1	



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	30.95	21.31	9.64	55.38	-24.43	Average	neutral	
2	0.16	46.41	36.77	9.64	65.38	-18.97	QP	neutral	
3	0.39	36.26	26.63	9.63	48.05	-11.79	Average	neutral	
4	0.39	39.83	30.20	9.63	58.05	-18.22	QP	neutral	
5	0.53	17.98	8.35	9.63	46.00	-28.02	Average	neutral	
6	0.53	21.65	12.02	9.63	56.00	-34.35	QP	neutral	
7	4.38	13.98	4.28	9.70	46.00	-32.02	Average	neutral	
8	4.38	20.61	10.91	9.70	56.00	-35.39	QP	neutral	
9	7.54	13.99	4.24	9.75	50.00	-36.01	Average	neutral	
10	7.54	22.20	12.45	9.75	60.00	-37.80	QP	neutral	
11	23.04	25.15	15.30	9.85	50.00	-24.85	Average	neutral	
12	23.04	30.44	20.59	9.85	60.00	-29.56	QP	neutral	