

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission for Dipole Antenna

ANT 6, Main Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

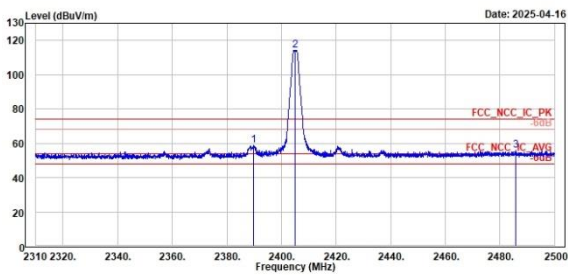
IEEE® 802.15.4_250k

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



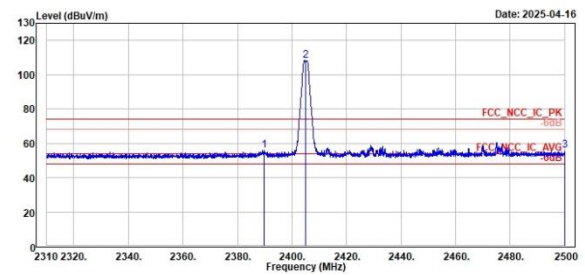
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2389.85	59.04	20.83	38.21	74.00	-14.96	341	171 Peak	Horizontal	
2 *	2405.00	114.28	75.95	38.33	74.00	40.28	341	171 Peak	Horizontal	
3	2485.85	56.00	17.40	38.60	74.00	-18.00	341	171 Peak	Horizontal	



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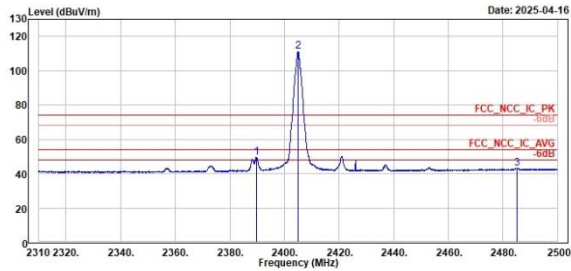
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	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2389.66	55.95	17.74	38.21	74.00	-18.05	305	90 Peak	Vertical	
2 *	2405.00	100.18	69.85	38.33	74.00	34.18	305	90 Peak	Vertical	
3	2500.00	55.66	17.04	38.62	74.00	-18.34	305	90 Peak	Vertical	

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Low Channel (Horizontal) Average



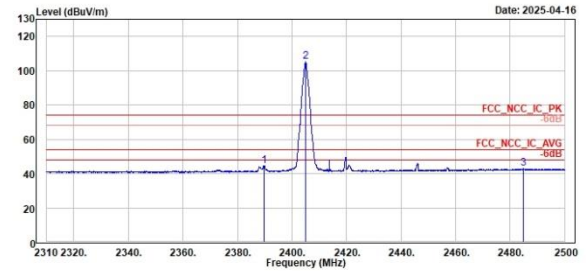
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.71	49.50	11.29	38.21	54.00	-4.50	341	171	Average	Horizontal		
2 *	2405.00	111.21	72.68	38.33	54.00	57.21	341	171	Average	Horizontal		
3	2485.04	43.13	4.53	38.60	54.00	-10.87	341	171	Average	Horizontal		



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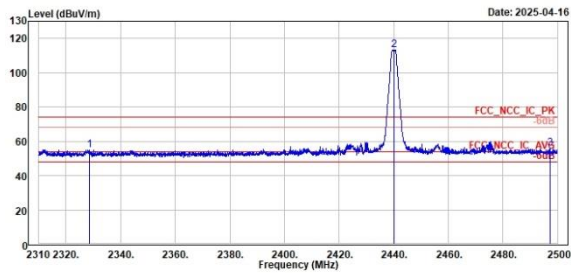
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1	2389.66	44.31	6.10	38.21	54.00	-9.69	305	90	Average	Vertical		
2 *	2405.00	105.09	66.76	38.33	54.00	51.09	305	90	Average	Vertical		
3	2484.90	42.90	4.30	38.60	54.00	-11.10	305	90	Average	Vertical		

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Middle Channel (Horizontal) Peak



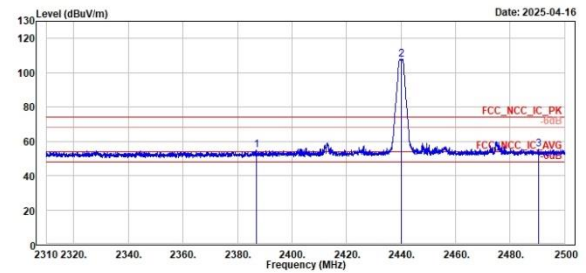
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2328.48	55.04	17.27	37.77	74.00	-18.96	374	0	Peak	Horizontal		
2 *	2440.00	113.37	74.86	38.51	74.00	39.37	374	0	Peak	Horizontal		
3	2497.15	55.73	17.11	38.62	74.00	-18.27	374	0	Peak	Horizontal		



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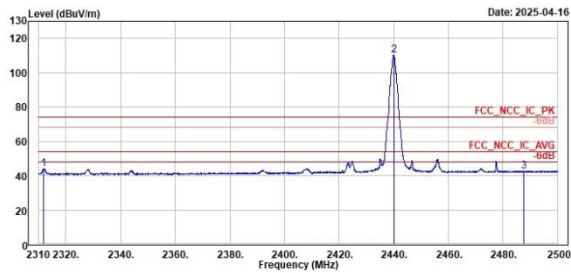
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.09	55.06	16.88	38.18	74.00	-18.94	360	72	Peak	Vertical		
2 *	2440.00	107.97	69.46	38.51	74.00	33.97	360	72	Peak	Vertical		
3	2490.45	55.55	16.94	38.61	74.00	-18.45	360	72	Peak	Vertical		

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Middle Channel (Horizontal) Average



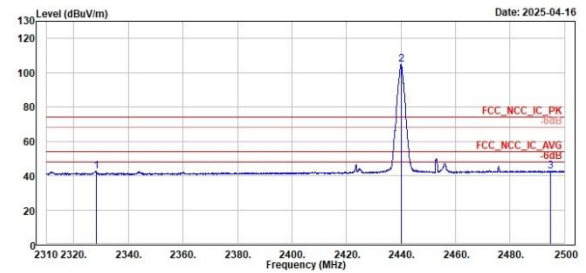
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2311.85	44.18	6.39	37.71	54.00	-9.90	374	0	Average	Horizontal		
2 *	2440.00	110.27	71.76	38.51	54.00	56.27	374	0	Average	Horizontal		
3	2487.79	42.75	4.14	38.61	54.00	-11.25	374	0	Average	Horizontal		



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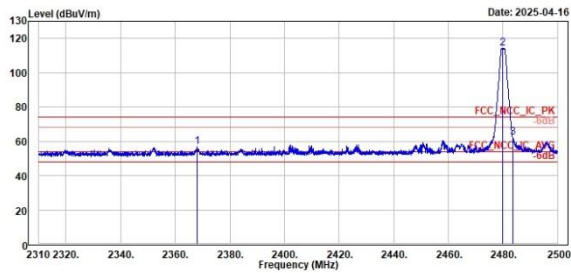
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1	2328.34	42.56	4.79	37.77	54.00	-11.44	360	72	Average	Vertical		
2 *	2440.00	104.82	66.31	38.51	54.00	50.82	360	72	Average	Vertical		
3	2494.92	42.68	4.07	38.61	54.00	-11.32	360	72	Average	Vertical		

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High Channel (Horizontal) Peak



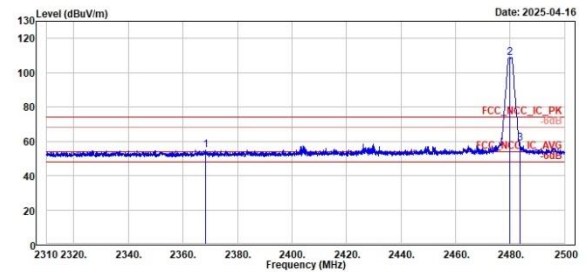
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2368.05	56.91	18.91	38.00	74.00	-17.09	317	181	Peak	Horizontal	
2 *	2480.00	114.13	75.53	38.60	74.00	40.13	317	181	Peak	Horizontal	
3	2483.52	62.51	23.91	38.60	74.00	-11.49	317	181	Peak	Horizontal	



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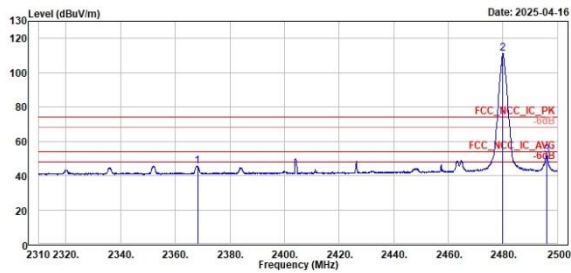
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1	2368.24	55.07	17.06	38.01	74.00	-16.93	390	283	Peak	Vertical	
2 *	2480.00	100.07	70.27	38.60	74.00	34.87	390	283	Peak	Vertical	
3	2483.52	58.76	20.16	38.60	74.00	-15.24	390	283	Peak	Vertical	

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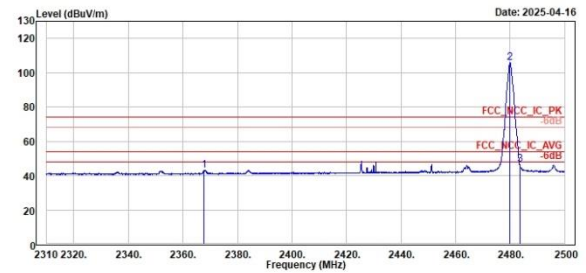
High Channel (Horizontal) Average



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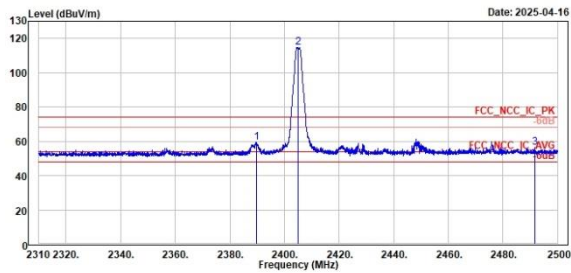


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Low Channel (Horizontal) Peak



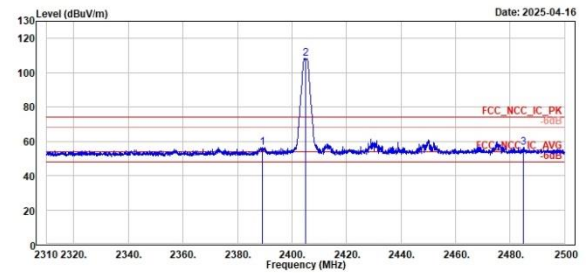
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.05	59.31	21.10	38.21	74.00	-14.69	341	178	Peak	Horizontal		
2 *	2405.00	114.62	76.29	38.33	74.00	40.62	341	178	Peak	Horizontal		
3	2491.64	56.17	17.56	38.61	74.00	-17.83	341	178	Peak	Horizontal		



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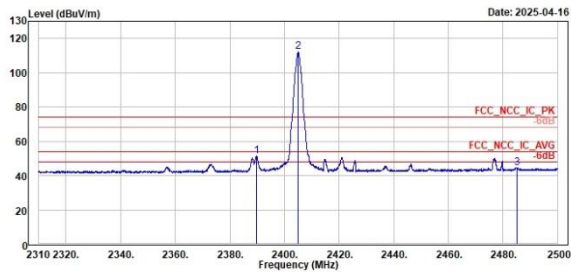
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.09	56.56	18.36	38.20	74.00	-17.44	339	287	Peak	Vertical		
2 *	2405.00	100.33	70.00	38.33	74.00	34.33	339	287	Peak	Vertical		
3	2484.90	56.43	17.83	38.60	74.00	-17.57	339	287	Peak	Vertical		

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Low Channel (Horizontal) Average



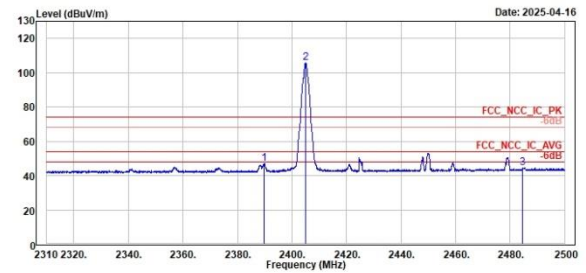
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	51.36	13.15	38.21	54.00	-2.64	341	178	Average	Horizontal		
2 *	2405.00	112.09	73.78	38.33	54.00	58.09	341	178	Average	Horizontal		
3	2485.09	44.65	6.05	38.60	54.00	-9.35	341	178	Average	Horizontal		



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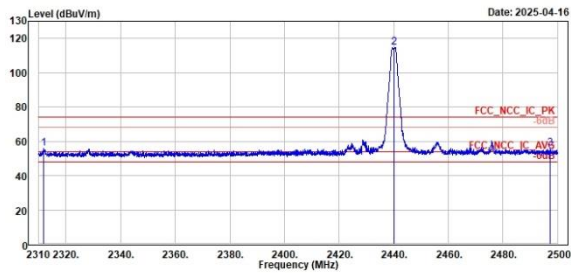
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.71	47.03	8.82	38.21	54.00	-6.97	339	287	Average	Vertical		
2 *	2405.00	105.70	67.37	38.33	54.00	51.70	339	287	Average	Vertical		
3	2484.66	44.64	6.04	38.60	54.00	-9.36	339	287	Average	Vertical		

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Middle Channel (Horizontal) Peak



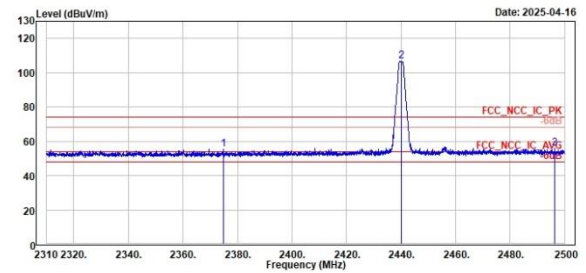
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2311.76	55.78	18.07	37.71	74.00	-18.22	329	168	Peak	Horizontal		
2 *	2440.00	114.44	75.93	38.51	74.00	40.44	329	168	Peak	Horizontal		
3	2497.25	55.68	17.06	38.62	74.00	-18.32	329	168	Peak	Horizontal		



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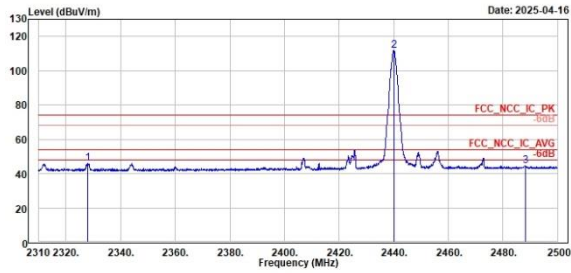
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1	2374.93	55.31	17.24	38.07	74.00	-18.69	400	69	Peak	Vertical		
2 *	2440.00	106.71	68.20	38.51	74.00	32.71	400	69	Peak	Vertical		
3	2496.49	55.64	17.02	38.62	74.00	-18.36	400	69	Peak	Vertical		

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Middle Channel (Horizontal) Average



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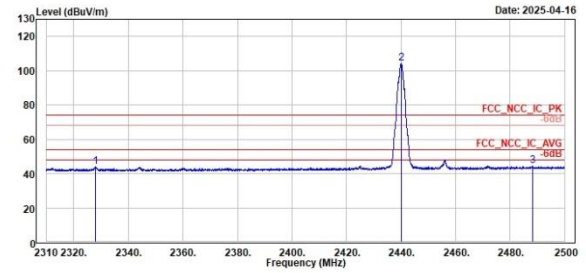


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.00	46.08	8.31	37.77	54.00	-7.92	329	168	Average	Horizontal		
2 *	2440.00	111.94	73.43	38.51	54.00	57.94	329	168	Average	Horizontal		
3	2488.36	44.57	5.96	38.61	54.00	-9.43	329	168	Average	Horizontal		

Middle Channel (Vertical) Average



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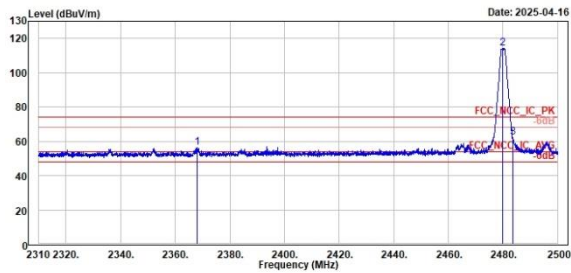
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1	2327.91	43.75	5.98	37.77	54.00	-10.25	400	69	Average	Vertical		
2 *	2440.00	104.09	65.58	38.51	54.00	50.09	400	69	Average	Vertical		
3	2488.27	44.27	5.66	38.61	54.00	-9.73	400	69	Average	Vertical		

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High Channel (Horizontal) Peak



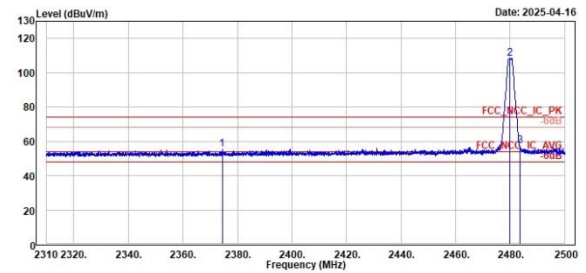
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2367.95	56.12	18.12	38.00	74.00	-17.88	317	168	Peak	Horizontal		
2 *	2480.00	114.10	75.50	38.60	74.00	40.10	317	168	Peak	Horizontal		
3	2483.52	62.11	23.51	38.60	74.00	-11.89	317	168	Peak	Horizontal		



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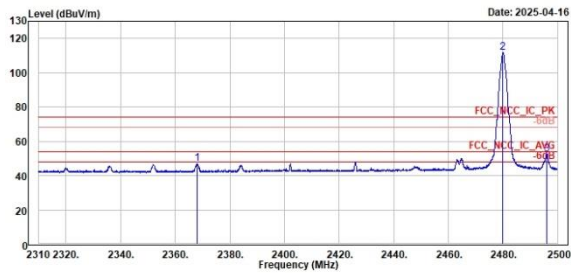
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2374.41	55.28	17.21	38.07	74.00	-16.72	396	304	Peak	Vertical		
2 *	2480.00	100.36	69.76	38.60	74.00	34.36	396	304	Peak	Vertical		
3	2483.50	57.10	18.50	38.60	74.00	-16.90	396	304	Peak	Vertical		

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High Channel (Horizontal) Average



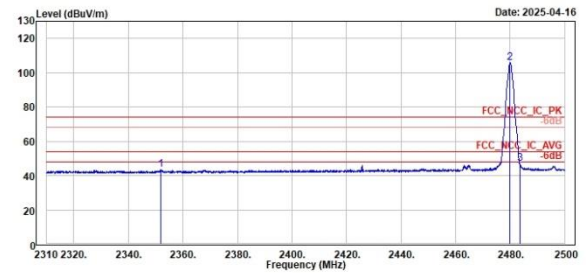
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2367.90	46.76	8.76	38.00	54.00	-7.24	317	168	Average	Horizontal		
2 *	2480.00	111.61	73.01	38.60	54.00	57.61	317	168	Average	Horizontal		
3 †	2496.15	52.61	13.99	38.62	54.00	-1.39	317	168	Average	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	2351.90	43.73	5.87	37.86	54.00	-10.27	396	304	Average	Vertical		
2 *	2480.00	105.87	67.27	38.60	54.00	51.87	396	304	Average	Vertical		
3	2483.52	47.09	8.49	38.60	54.00	-6.91	396	304	Average	Vertical		

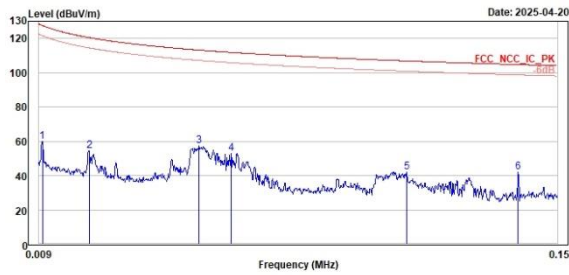
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

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Low Channel (Open) 9kHz~150kHz



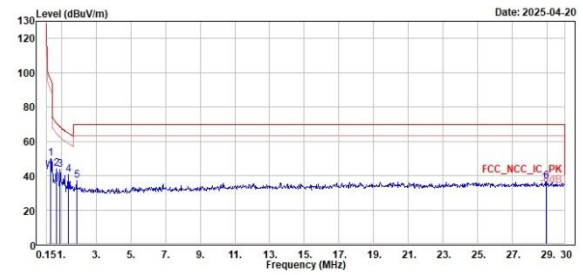
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.01	59.97	41.86	18.11	127.60	-67.63	100	190	Peak	Open		
2	0.02	54.44	34.89	19.64	126.48	-66.04	100	262	Peak	Open		
3	0.05	57.38	38.64	18.74	113.18	-55.80	100	258	Peak	Open		
4	0.06	52.95	34.95	18.00	111.84	-58.89	100	251	Peak	Open		
5	0.11	42.11	24.03	18.08	106.85	-64.74	100	240	Peak	Open		
6	0.14	41.87	23.60	18.27	104.72	-62.85	100	212	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	cm	cm	deg			
1	0.39	50.02	31.38	18.64	95.81	-45.79	100	192	Peak	Open		
2	0.72	44.17	25.37	18.80	70.49	-26.32	100	312	Peak	Open		
3	0.93	43.59	24.74	18.85	68.27	-24.68	100	174	Peak	Open		
4	1.40	40.35	21.54	18.81	64.66	-24.31	100	174	Peak	Open		
5	1.88	37.00	18.17	18.83	69.50	-32.50	100	312	Peak	Open		
6	28.96	36.55	13.32	23.23	69.50	-32.95	100	163	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

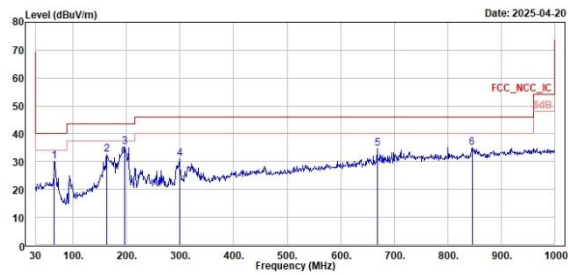
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Low Channel (Horizontal)

Low Channel (Vertical)



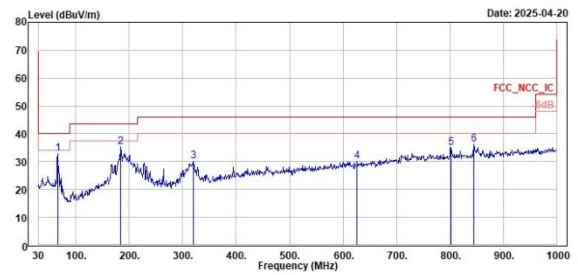
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	64.92	30.10	37.30	-7.20	40.00	-9.90	300	352 Peak	Horizontal	
2	162.89	32.40	38.03	-5.63	43.50	-11.10	200	193 Peak	Horizontal	
3	195.87	35.27	43.46	-8.19	43.50	-8.23	200	2 Peak	Horizontal	
4	298.69	31.05	36.41	-5.36	46.00	-14.95	100	225 Peak	Horizontal	
5	668.26	34.61	33.12	1.49	46.00	-11.39	100	223 Peak	Horizontal	
6	845.77	35.12	31.03	4.09	46.00	-10.88	200	330 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	65.89	32.78	40.35	-7.57	40.00	-7.22	275	0 Peak	Vertical	
2	184.23	35.32	42.74	-7.42	43.50	-8.18	100	146 Peak	Vertical	
3	320.03	30.21	34.90	-4.69	46.00	-15.79	300	82 Peak	Vertical	
4	626.55	30.27	29.25	1.02	46.00	-15.73	200	290 Peak	Vertical	
5	802.12	35.00	31.30	3.70	46.00	-11.00	100	238 Peak	Vertical	
6	844.80	36.23	32.16	4.07	46.00	-9.77	100	274 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

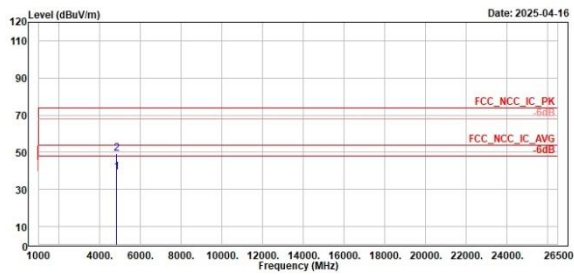
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Low Channel (Horizontal)

Low Channel (Vertical)



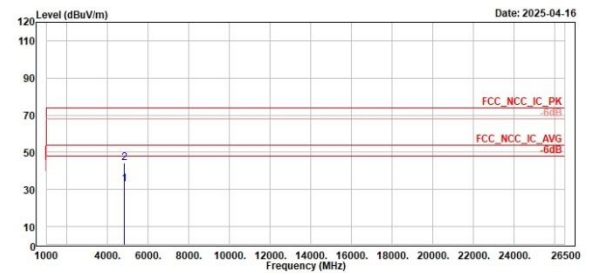
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4818.00	39.13	48.20	-9.07	54.00	-14.87	330	33 Average	Horizontal	
2	4818.00	49.28	58.35	-9.07	74.00	-24.72	330	33 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4818.00	32.94	42.01	-9.07	54.00	-21.06	180	186 Average	Vertical	
2	4818.00	44.18	53.25	-9.07	74.00	-29.82	180	186 Peak	Vertical	

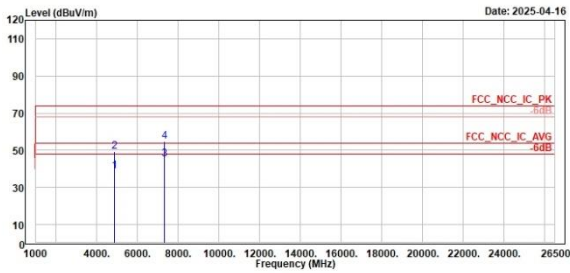
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Middle Channel (Horizontal)

Middle Channel (Vertical)



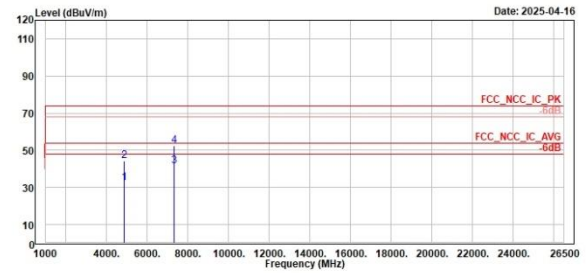
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	38.83	47.70	-8.87	54.00	-15.17	232	346	Average	Horizontal		
2	4880.00	49.14	58.01	-8.87	74.00	-24.86	232	346	Peak	Horizontal		
3	7320.00	45.23	51.90	-6.67	54.00	-8.77	100	306	Average	Horizontal		
4	7320.00	54.79	61.46	-6.67	74.00	-19.21	100	306	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	4880.00	32.50	41.37	-8.87	54.00	-21.50	100	360	Average	Vertical		
2	4880.00	44.09	52.96	-8.87	74.00	-29.91	100	360	Peak	Vertical		
3	7320.00	41.54	48.21	-6.67	54.00	-12.46	100	354	Average	Vertical		
4	7320.00	52.32	58.99	-6.67	74.00	-21.68	100	354	Peak	Vertical		

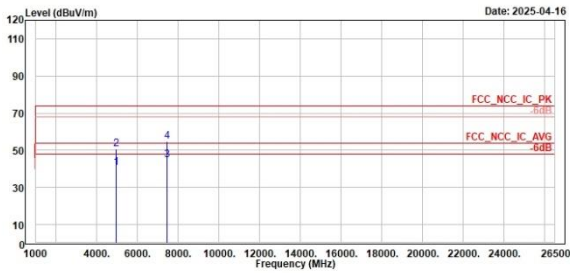
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High Channel (Horizontal)

High Channel (Vertical)



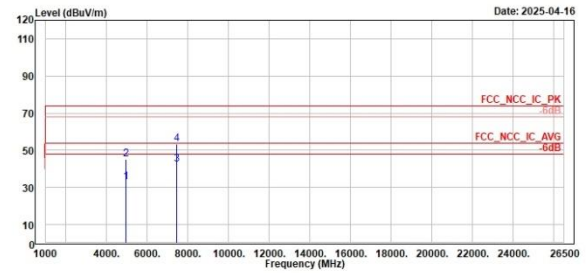
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	40.55	49.24	-8.69	54.00	-13.45	264	357 Average	Horizontal	
2	4960.00	50.59	59.28	-8.69	74.00	-23.41	264	357 Peak	Horizontal	
3	7440.00	44.77	51.51	-6.74	54.00	-9.23	100	313 Average	Horizontal	
4	7440.00	54.61	61.35	-6.74	74.00	-19.39	100	313 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	32.91	41.60	-8.69	54.00	-21.09	100	16 Average	Vertical	
2	4960.00	45.09	53.78	-8.69	74.00	-28.91	100	16 Peak	Vertical	
3	7440.00	42.36	49.10	-6.74	54.00	-11.64	100	297 Average	Vertical	
4	7440.00	53.59	60.33	-6.74	74.00	-20.41	100	297 Peak	Vertical	

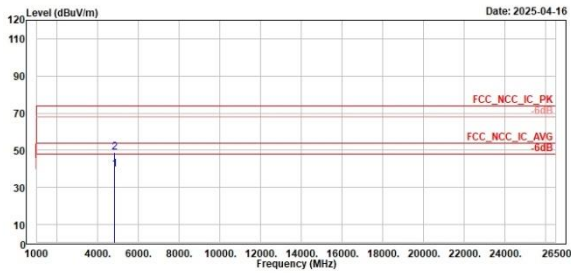
IEEE® 802.15.4_2M

Low Channel (Horizontal)

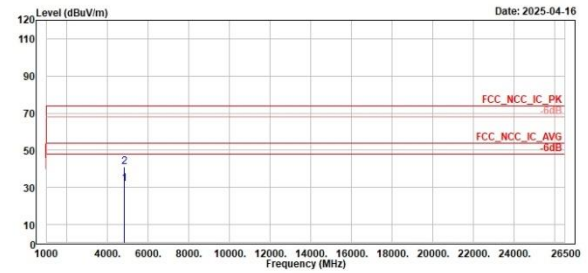
Low Channel (Vertical)



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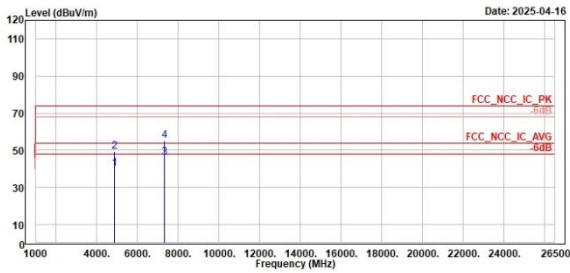


IEEE® 802.15.4_2M

Middle Channel (Horizontal)



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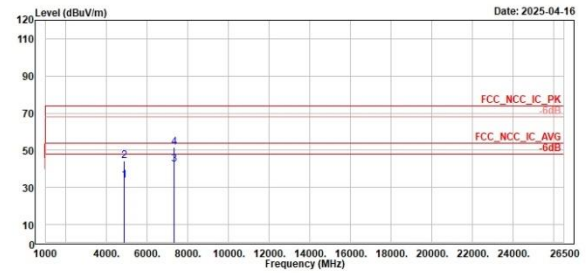


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	40.11	48.98	-8.87	54.00	-13.89	232	345	Average	Horizontal		
2	4880.00	49.26	58.13	-8.87	74.00	-24.74	232	345	Peak	Horizontal		
3	7320.00	46.30	52.97	-6.67	54.00	-7.70	100	307	Average	Horizontal		
4	7320.00	55.25	61.92	-6.67	74.00	-18.75	100	307	Peak	Horizontal		

Middle Channel (Vertical)

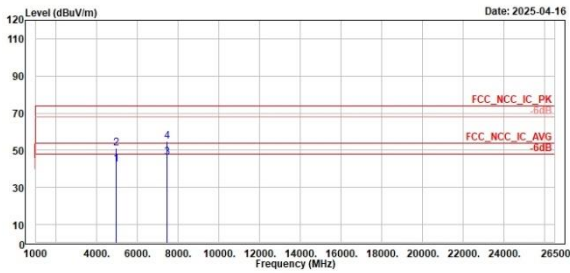


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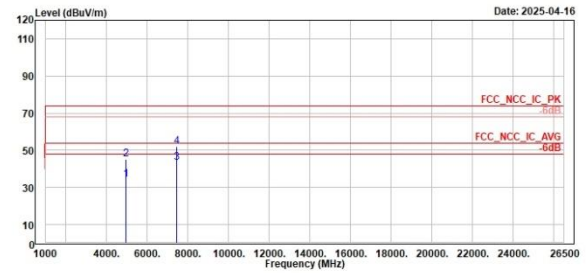


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	33.67	42.54	-8.87	54.00	-20.33	100	360	Average	Vertical		
2	4880.00	44.33	53.20	-8.87	74.00	-29.67	100	360	Peak	Vertical		
3	7320.00	42.23	48.90	-6.67	54.00	-11.77	100	354	Average	Vertical		
4	7320.00	51.65	58.32	-6.67	74.00	-22.35	100	354	Peak	Vertical		

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High Channel (Horizontal)
High Channel (Vertical)

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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	42.21	50.90	-8.69	54.00	-11.79	264	358 Average	Horizontal	
2	4960.00	50.88	59.57	-8.69	74.00	-23.12	264	358 Peak	Horizontal	
3	7440.00	45.93	52.67	-6.74	54.00	-8.07	100	312 Average	Horizontal	
4	7440.00	54.72	61.46	-6.74	74.00	-19.28	100	312 Peak	Horizontal	


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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	4960.00	34.31	43.00	-8.69	54.00	-19.69	100	16 Average	Vertical	
2	4960.00	44.97	53.66	-8.69	74.00	-29.03	100	16 Peak	Vertical	
3	7440.00	43.26	50.00	-6.74	54.00	-10.74	100	297 Average	Vertical	
4	7440.00	52.10	58.84	-6.74	74.00	-21.90	100	297 Peak	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

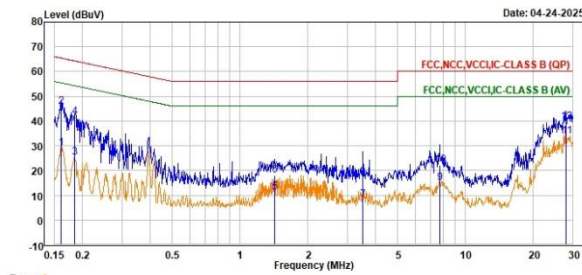
Worst Band

(Line)

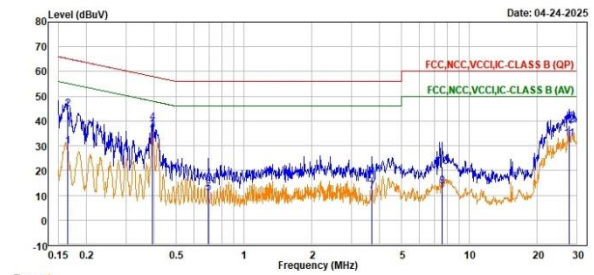
(Neutral)



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ANT 6, 2nd Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

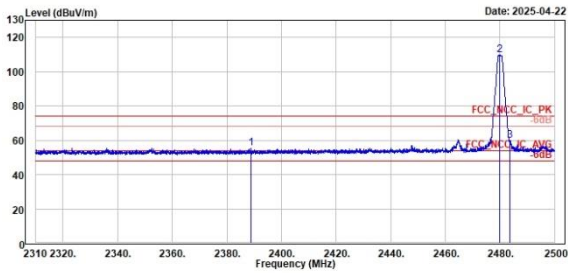
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High Channel (Horizontal) Peak

High Channel (Vertical) Peak



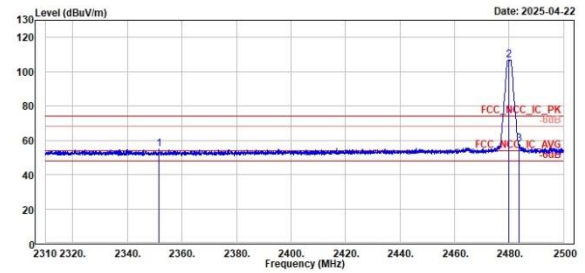
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.76	55.47	17.40	38.07	74.00	-18.53	294	20	Peak	Horizontal	
2 *	2488.00	109.73	71.26	38.47	74.00	35.73	294	20	Peak	Horizontal	
3	2483.76	59.81	21.33	38.48	74.00	-14.19	294	20	Peak	Horizontal	



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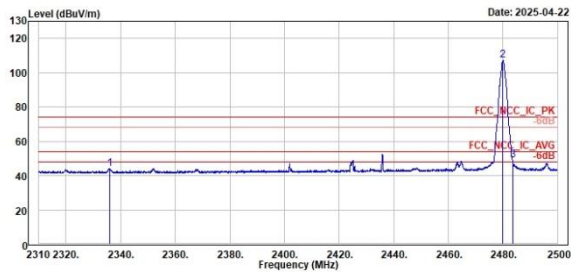
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2351.52	54.63	16.90	37.73	74.00	-19.37	289	264	Peak	Vertical	
2 *	2488.00	109.90	68.43	38.47	74.00	32.90	289	264	Peak	Vertical	
3	2483.76	57.95	19.47	38.48	74.00	-16.05	289	264	Peak	Vertical	

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High Channel (Horizontal) Average



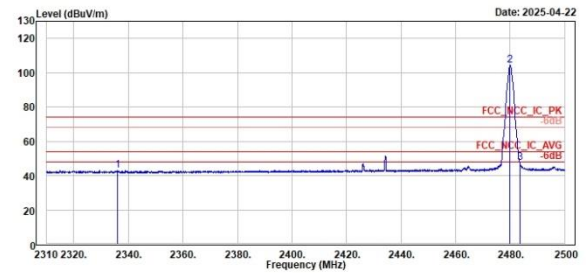
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2336.13	43.97	6.30	37.67	54.00	-10.03	294	20	Average	Horizontal		
2 *	2480.00	107.05	68.58	38.47	54.00	53.05	294	20	Average	Horizontal		
3 †	2483.52	48.96	10.48	38.48	54.00	-5.04	294	20	Average	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	2336.13	43.00	5.33	37.67	54.00	-11.00	289	264	Average	Vertical		
2 *	2480.00	104.40	65.93	38.47	54.00	50.40	289	264	Average	Vertical		
3	2483.50	47.42	8.94	38.48	54.00	-6.58	289	264	Average	Vertical		

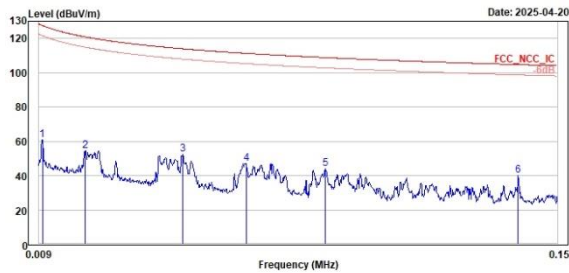
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

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Low Channel (Open) 9kHz~150kHz



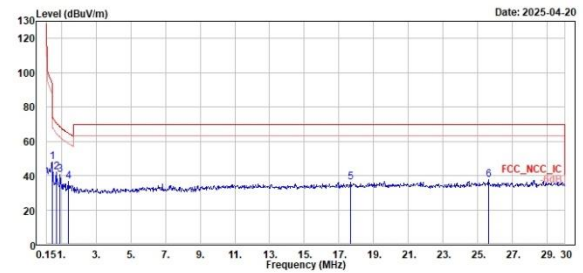
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	60.85	42.74	18.11	127.60	-66.75	100	67	Peak	Open	
2	0.02	54.55	34.96	19.59	120.92	-66.37	100	296	Peak	Open	
3	0.05	52.32	33.30	19.02	113.93	-61.61	100	279	Peak	Open	
4	0.07	47.11	28.87	18.24	111.28	-64.17	100	284	Peak	Open	
5	0.09	44.02	25.94	18.08	108.81	-64.79	100	295	Peak	Open	
6	0.14	40.05	21.78	18.27	104.72	-64.67	100	220	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	cm	deg				
1	0.48	48.18	29.44	18.74	94.01	-45.83	100	186	Peak	Open	
2	0.72	42.07	23.27	18.80	70.49	-28.42	100	306	Peak	Open	
3	0.93	40.74	21.89	18.85	68.27	-27.53	100	0	Peak	Open	
4	1.40	36.70	17.89	18.81	64.66	-27.96	100	331	Peak	Open	
5	17.67	36.32	13.79	22.53	69.50	-33.18	100	173	Peak	Open	
6	25.61	37.74	14.74	23.00	69.50	-31.76	100	335	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

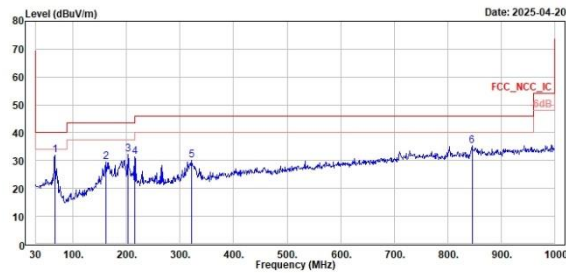
IEEE® 802.15.4_250k

Low Channel (Horizontal)

Low Channel (Vertical)



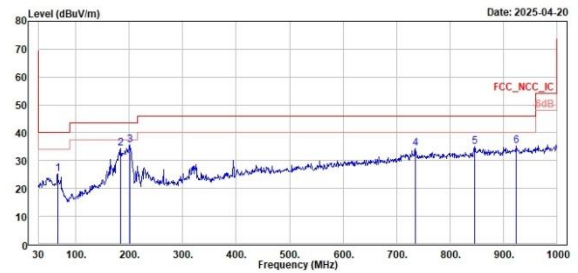
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	31.87	39.44	-7.57	40.00	-8.13	200	201	Peak	Horizontal		
2	160.95	29.58	35.31	-5.73	43.50	-13.92	200	178	Peak	Horizontal		
3	202.66	32.37	40.54	-8.17	43.50	-11.13	100	279	Peak	Horizontal		
4	215.27	31.19	39.49	-8.30	43.50	-12.31	200	282	Peak	Horizontal		
5	321.97	30.03	34.72	-4.69	46.00	-15.97	300	219	Peak	Horizontal		
6	845.77	35.26	31.17	4.09	46.00	-10.74	207	360	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	65.89	25.14	32.71	-7.57	40.00	-14.86	300	256	Peak	Vertical		
2	183.26	34.33	41.68	-7.35	43.50	-9.17	100	200	Peak	Vertical		
3	201.69	35.63	43.80	-8.17	43.50	-7.67	100	320	Peak	Vertical		
4	735.19	34.43	31.64	2.79	46.00	-11.57	100	243	Peak	Vertical		
5	846.74	34.94	30.83	4.11	46.00	-11.06	272	360	Peak	Vertical		
6	924.34	35.23	30.07	5.16	46.00	-10.77	200	30	Peak	Vertical		

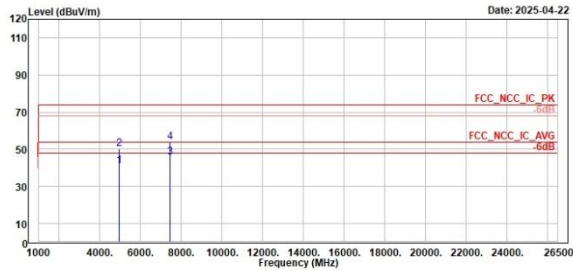
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

IEEE® 802.15.4_2M

High Channel (Horizontal)



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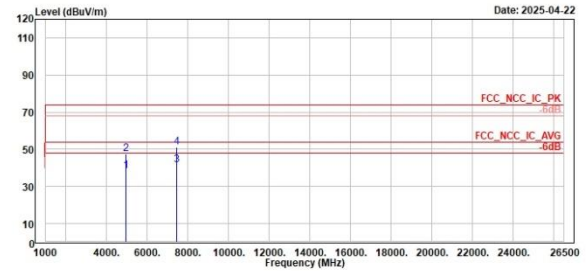


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	41.23	58.05	-8.82	54.00	-12.77	252	199	Average	Horizontal	
2	4960.00	50.19	59.01	-8.82	74.00	-23.81	252	199	Peak	Horizontal	
3	7440.00	45.56	52.39	-6.83	54.00	-8.44	214	133	Average	Horizontal	
4	7440.00	53.76	60.59	-6.83	74.00	-20.24	214	133	Peak	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	4960.00	38.11	46.93	-8.82	54.00	-15.89	341	249	Average	Vertical	
2	4960.00	47.52	56.34	-8.82	74.00	-26.48	341	249	Peak	Vertical	
3	7440.00	41.68	48.51	-6.83	54.00	-12.32	294	116	Average	Vertical	
4	7440.00	50.94	57.77	-6.83	74.00	-23.06	294	116	Peak	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

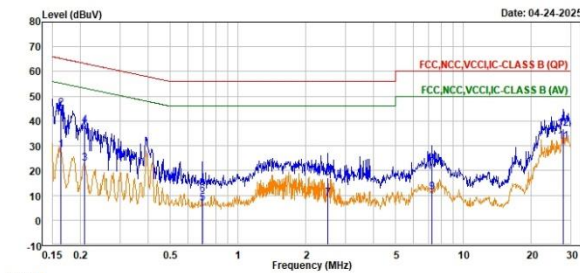
Worst Band

(Line)

(Neutral)



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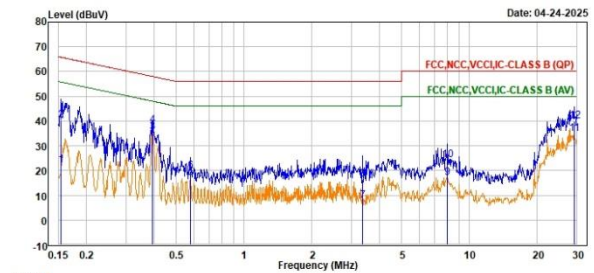


Trace: 1

	Freq	Level	Read Level Factor	Limit Line	Over Limit Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.16	28.25	18.62	9.63	55.30	-27.05	Average line1
2	0.16	45.02	35.39	9.63	65.30	-20.28	QP line1
3	0.21	22.74	13.11	9.63	53.31	-30.57	Average line1
4	0.21	38.27	28.64	9.63	63.31	-25.04	QP line1
5	0.70	6.77	-2.86	9.63	46.00	-39.23	Average line1
6	0.70	10.22	0.59	9.63	56.00	-45.78	QP line1
7	2.51	8.75	-0.91	9.66	46.00	-37.25	Average line1
8	2.51	17.20	7.54	9.66	56.00	-38.00	QP line1
9	7.28	11.27	1.55	9.72	50.00	-38.73	Average line1
10	7.28	23.02	13.30	9.72	60.00	-36.98	QP line1
11	27.70	31.63	21.94	9.69	50.00	-18.37	Average line1
12	27.70	36.90	27.21	9.69	60.00	-23.10	QP line1



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Trace: 1

	Freq	Level	Read Level Factor	Limit Line	Over Limit Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.15	22.10	12.46	9.64	55.79	-33.69	Average neutral
2	0.15	40.30	30.66	9.64	65.79	-25.49	QP neutral
3	0.39	35.39	25.76	9.63	48.05	-12.66	Average neutral
4	0.39	38.28	28.65	9.63	58.05	-19.77	QP neutral
5	0.58	16.87	7.24	9.63	46.00	-29.13	Average neutral
6	0.58	19.64	10.01	9.63	56.00	-36.36	QP neutral
7	3.36	7.81	-1.88	9.69	46.00	-38.19	Average neutral
8	3.36	16.52	6.83	9.69	56.00	-39.48	QP neutral
9	8.01	16.89	7.13	9.76	50.00	-33.11	Average neutral
10	8.01	24.31	14.55	9.76	60.00	-35.69	QP neutral
11	29.26	34.76	24.92	9.84	50.00	-15.24	Average neutral
12	29.26	39.99	30.15	9.84	60.00	-20.01	QP neutral

ANT 6, Main Source, Non-ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

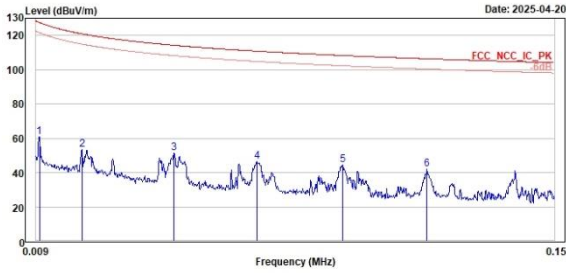
IEEE® 802.15.4_250k

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



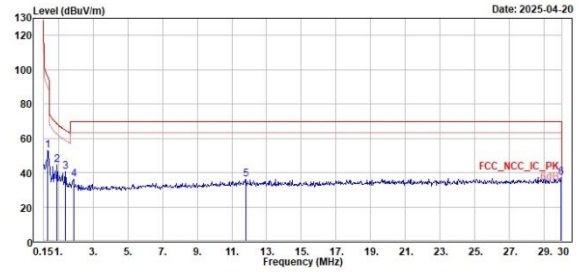
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	60.99	42.88	18.11	127.60	-66.61	100	121 Peak	Open	
2	0.02	53.47	35.88	19.59	120.92	-67.45	100	314 Peak	Open	
3	0.05	51.38	32.36	19.02	114.24	-62.86	100	228 Peak	Open	
4	0.07	46.48	28.02	18.46	110.81	-64.33	100	261 Peak	Open	
5	0.09	44.52	26.50	18.02	108.28	-63.76	100	279 Peak	Open	
6	0.12	41.85	23.73	18.12	106.36	-64.51	100	259 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	0.39	52.98	34.34	18.64	95.81	-42.83	100	219 Peak	Open	
2	0.93	44.33	25.48	18.85	68.27	-23.94	100	169 Peak	Open	
3	1.40	40.38	21.57	18.81	64.66	-24.28	100	169 Peak	Open	
4	1.88	35.95	17.12	18.83	69.50	-33.55	100	169 Peak	Open	
5	11.79	35.91	14.20	21.71	69.50	-33.59	100	277 Peak	Open	
6	29.94	37.02	13.77	23.25	69.50	-32.48	100	167 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

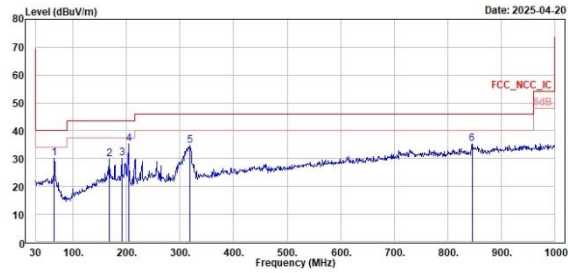
IEEE® 802.15.4_250k

Low Channel (Horizontal)

Low Channel (Vertical)



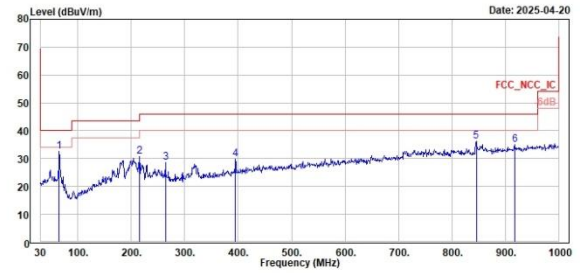
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	64.92	30.26	37.46	-7.20	40.00	-9.74	400	299	Peak	Horizontal		
2	167.74	29.64	35.72	-5.88	43.50	-13.66	200	218	Peak	Horizontal		
3	191.02	30.18	38.13	-7.95	43.50	-13.32	100	183	Peak	Horizontal		
4	203.63	35.30	43.47	-8.17	43.50	-8.20	100	183	Peak	Horizontal		
5	318.09	34.63	39.40	-4.77	46.00	-11.37	100	61	Peak	Horizontal		
6	845.77	35.18	31.09	4.09	46.00	-10.82	400	156	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	64.92	32.52	39.72	-7.20	40.00	-7.48	300	66	Peak	Vertical		
2	215.27	30.67	38.97	-8.30	43.50	-12.83	100	21	Peak	Vertical		
3	263.77	28.68	35.14	-6.46	46.00	-17.32	200	188	Peak	Vertical		
4	394.72	29.93	33.24	-3.31	46.00	-16.07	100	209	Peak	Vertical		
5	845.77	36.17	32.08	4.09	46.00	-9.83	100	176	Peak	Vertical		
6	917.55	35.00	29.81	5.19	46.00	-11.00	400	45	Peak	Vertical		

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

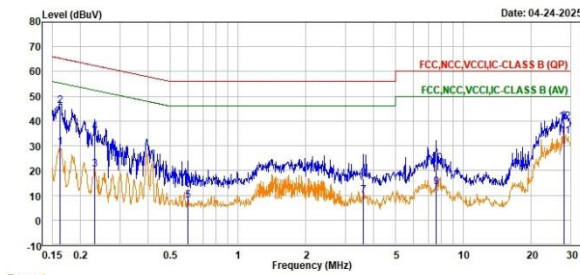
Worst Band

(Line)

(Neutral)



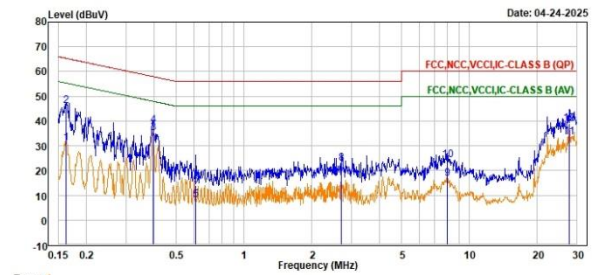
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	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	29.47	19.84	9.63	55.38	-25.91 Average	line1
2	0.16	46.14	36.51	9.63	65.38	-19.24 QP	line1
3	0.23	20.37	10.74	9.63	52.40	-32.03 Average	line1
4	0.23	35.47	25.84	9.63	62.40	-26.93 QP	line1
5	0.60	7.96	-1.67	9.63	46.00	-38.04 Average	line1
6	0.60	12.34	2.71	9.63	56.00	-43.66 QP	line1
7	3.61	9.99	0.31	9.68	46.00	-36.01 Average	line1
8	3.61	16.83	7.15	9.68	56.00	-39.17 QP	line1
9	7.58	13.13	3.40	9.73	50.00	-36.87 Average	line1
10	7.58	22.70	12.97	9.73	60.00	-37.30 QP	line1
11	28.12	33.96	24.27	9.69	50.00	-16.04 Average	line1
12	28.12	39.59	29.90	9.69	60.00	-20.41 QP	line1



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	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	30.90	21.26	9.64	55.38	-24.48 Average	neutral
2	0.16	45.96	36.32	9.64	65.38	-19.42 QP	neutral
3	0.39	35.31	25.68	9.63	47.97	-12.66 Average	neutral
4	0.39	38.37	28.74	9.63	57.97	-19.60 QP	neutral
5	0.61	8.09	-1.54	9.63	46.00	-37.91 Average	neutral
6	0.61	14.05	4.42	9.63	56.00	-41.95 QP	neutral
7	2.70	17.14	7.47	9.67	46.00	-28.86 Average	neutral
8	2.70	22.76	13.09	9.67	56.00	-33.24 QP	neutral
9	8.01	16.76	7.00	9.76	50.00	-33.24 Average	neutral
10	8.01	24.24	14.48	9.76	60.00	-35.76 QP	neutral
11	27.70	33.47	23.62	9.85	50.00	-16.53 Average	neutral
12	27.70	38.89	29.04	9.85	60.00	-21.11 QP	neutral

ANT 6, 2nd Source, Non-ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

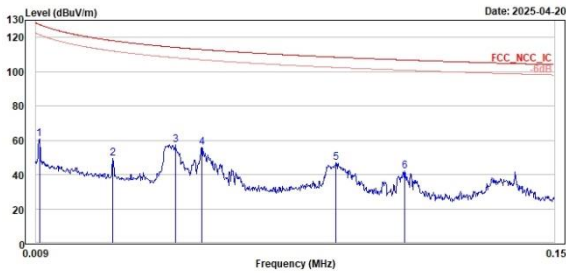
IEEE® 802.15.4_250k

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



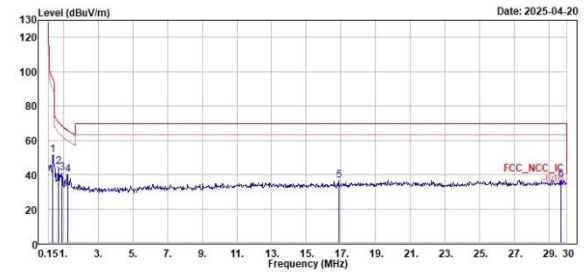
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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	60.76	42.65	18.11	127.60	-66.84	100	354 Peak	Open	
2	0.03	49.29	29.28	20.01	118.05	-68.76	100	147 Peak	Open	
3	0.05	57.32	38.30	19.02	114.16	-56.84	100	274 Peak	Open	
4	0.05	56.10	37.53	18.57	112.93	-56.83	100	254 Peak	Open	
5	0.09	46.93	28.91	18.02	108.45	-61.52	100	286 Peak	Open	
6	0.11	41.87	23.78	18.09	106.83	-64.96	100	254 Peak	Open	



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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.39	51.57	32.93	18.64	95.81	-44.24	100	201 Peak	Open	
2	0.72	44.38	25.58	18.80	70.49	-26.11	100	300 Peak	Open	
3	0.93	41.26	22.41	18.85	68.27	-27.01	100	318 Peak	Open	
4	1.25	39.92	21.12	18.80	65.64	-25.72	100	201 Peak	Open	
5	16.87	36.57	14.30	22.27	69.50	-32.93	100	244 Peak	Open	
6	29.67	36.95	13.70	23.25	69.50	-32.55	100	22 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

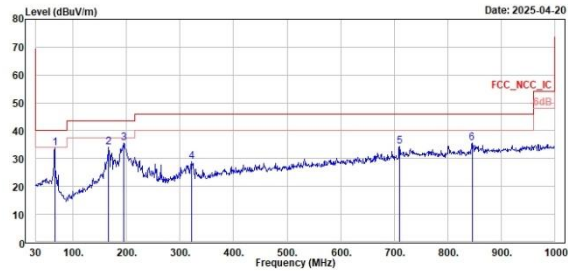
IEEE® 802.15.4_250k

Low Channel (Horizontal)

Low Channel (Vertical)



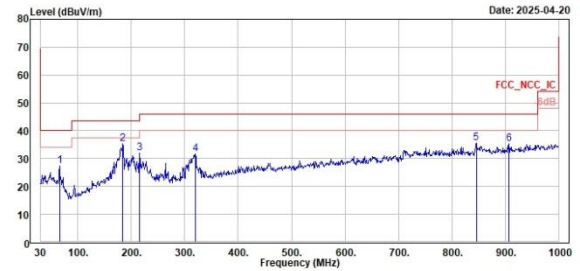
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	33.63	41.20	-7.57	40.00	-6.37	200	147	Peak	Horizontal		
2	166.77	33.93	39.76	-5.83	43.50	-9.57	200	234	Peak	Horizontal		
3	193.93	35.70	43.81	-8.11	43.50	-7.80	200	0	Peak	Horizontal		
4	321.00	28.85	33.54	-4.69	46.00	-17.15	100	198	Peak	Horizontal		
5	709.97	34.47	32.14	2.33	46.00	-11.53	100	227	Peak	Horizontal		
6	845.77	35.56	31.47	4.09	46.00	-10.44	100	69	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	65.89	27.37	34.04	-7.57	40.00	-12.63	200	25	Peak	Vertical		
2	184.23	35.21	42.63	-7.42	43.50	-8.29	100	187	Peak	Vertical		
3	215.27	31.86	40.16	-8.30	43.50	-11.64	112	360	Peak	Vertical		
4	320.03	31.53	36.22	-4.69	46.00	-14.47	200	161	Peak	Vertical		
5	845.77	35.72	31.63	4.09	46.00	-10.28	100	27	Peak	Vertical		
6	906.88	35.21	30.61	5.20	46.00	-10.79	300	317	Peak	Vertical		

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

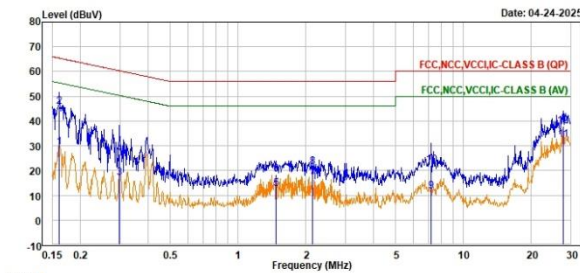
Worst Band

(Line)

(Neutral)



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