

Appendix C: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission for FPCB Antenna

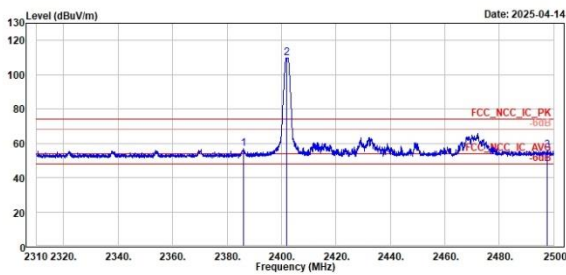
ANT 11, Main Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



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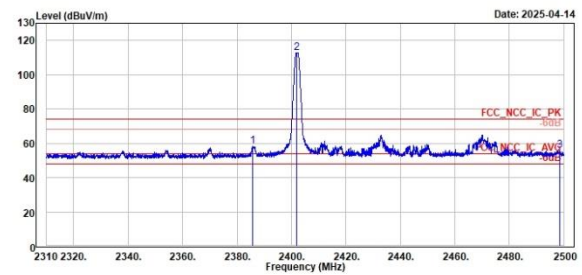


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2386.19	57.06	18.89	38.17	74.00	-16.94	100	38 Peak	Horizontal	
2 *	2402.00	109.83	71.52	38.31	74.00	35.83	100	38 Peak	Horizontal	
3	2497.48	56.01	17.39	38.62	74.00	-17.99	100	38 Peak	Horizontal	

Low Channel (Vertical) Peak



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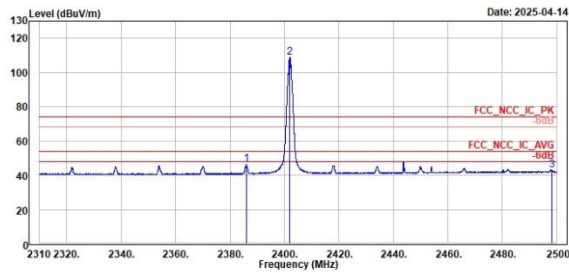
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	cm	deg			
1	2385.76	58.15	19.98	38.17	74.00	-15.85	284	186 Peak	Vertical	
2 *	2402.00	112.82	74.51	38.31	74.00	38.82	284	186 Peak	Vertical	
3	2498.43	55.94	17.32	38.62	74.00	-18.06	284	186 Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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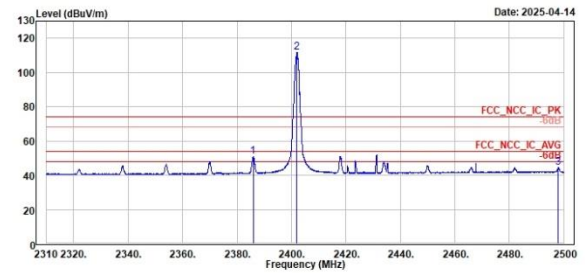


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.05	46.41	8.24	38.17	54.00	-7.59	100	38	Average	Horizontal		
2 *	2402.00	100.66	70.35	38.31	54.00	54.66	100	38	Average	Horizontal		
3	2498.10	43.13	4.51	38.62	54.00	-10.87	100	38	Average	Horizontal		

Low Channel (Vertical) Average



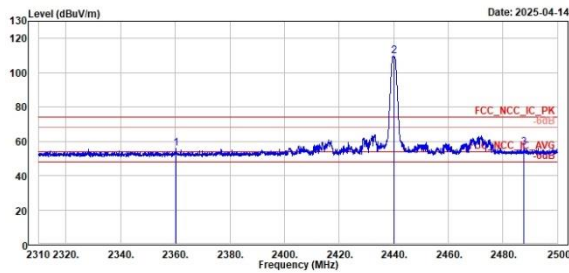
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.91	50.76	12.59	38.17	54.00	-3.24	284	186	Average	Vertical		
2 *	2402.00	111.81	73.58	38.31	54.00	57.81	284	186	Average	Vertical		
3	2498.01	44.50	5.88	38.62	54.00	-9.50	284	186	Average	Vertical		

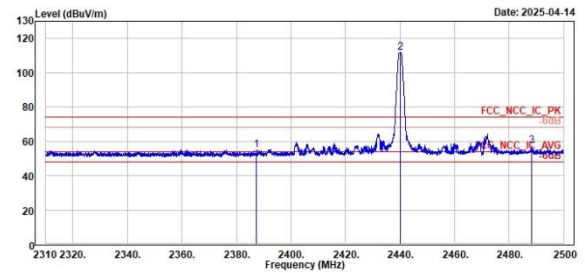
BLE_1M

Middle Channel (Horizontal) Peak



	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	2369.16	55.77	17.84	37.93	74.00	-18.23	287	48	Peak	Horizontal		
2 *	2440.00	109.53	71.02	38.51	74.00	35.53	287	48	Peak	Horizontal		
3	2487.75	56.52	17.91	38.61	74.00	-17.48	287	48	Peak	Horizontal		

Middle Channel (Vertical) Peak



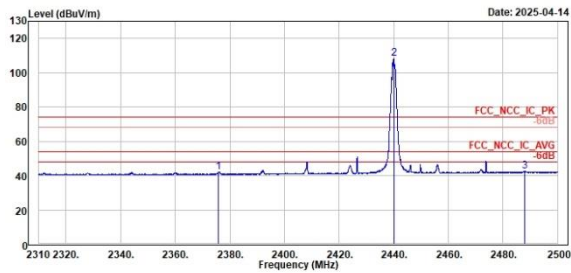
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.33	55.00	16.82	38.18	74.00	-19.00	277	184	Peak	Vertical		
2 *	2440.00	111.83	73.32	38.51	74.00	37.83	277	184	Peak	Vertical		
3	2488.22	57.20	18.59	38.61	74.00	-16.80	277	184	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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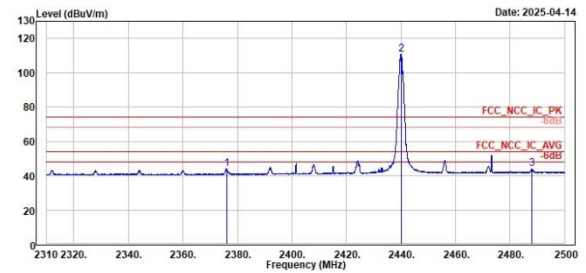


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.93	42.17	4.09	38.08	54.00	-11.83	287	48	Average	Horizontal		
2 *	2440.00	108.46	69.95	38.51	54.00	54.46	287	48	Average	Horizontal		
3	2487.84	42.64	4.03	38.61	54.00	-11.36	287	48	Average	Horizontal		

Middle Channel (Vertical) Average



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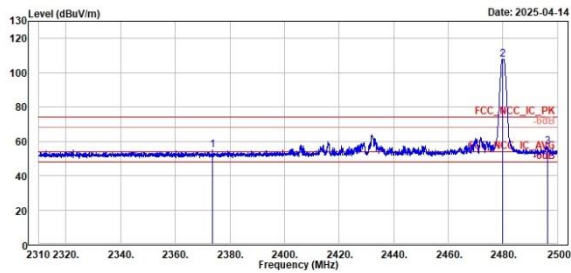
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1	2376.07	44.03	5.95	38.08	54.00	-9.97	277	184	Average	Vertical		
2 *	2440.00	110.61	72.38	38.51	54.00	56.61	277	184	Average	Vertical		
3	2487.98	43.77	5.16	38.61	54.00	-10.23	277	184	Average	Vertical		

BLE_1M

High Channel (Horizontal) Peak



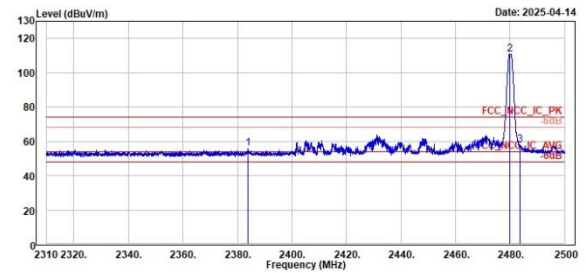
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2373.60	55.05	16.99	38.06	74.00	-18.95	336	45	Peak	Horizontal		
2 *	2480.00	107.99	69.39	38.60	74.00	33.99	336	45	Peak	Horizontal		
3	2496.30	57.04	18.42	38.62	74.00	-16.96	336	45	Peak	Horizontal		



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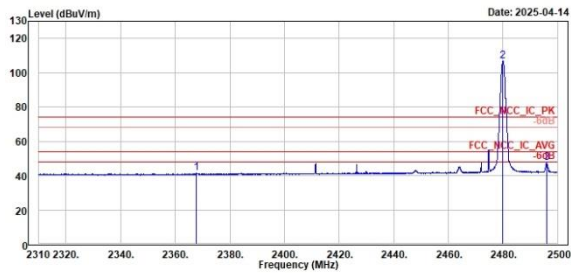
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1	2383.91	55.76	17.61	38.15	74.00	-18.24	299	160	Peak	Vertical		
2 *	2480.00	110.04	72.24	38.60	74.00	36.04	299	160	Peak	Vertical		
3	2483.76	57.83	19.23	38.60	74.00	-16.17	299	160	Peak	Vertical		

BLE_1M

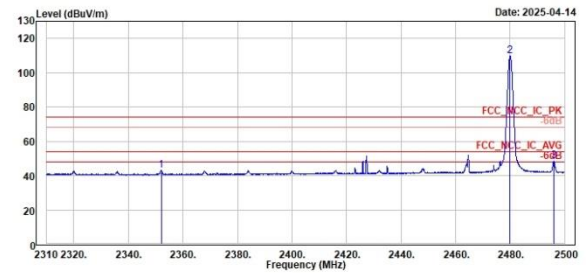
High Channel (Horizontal) Average



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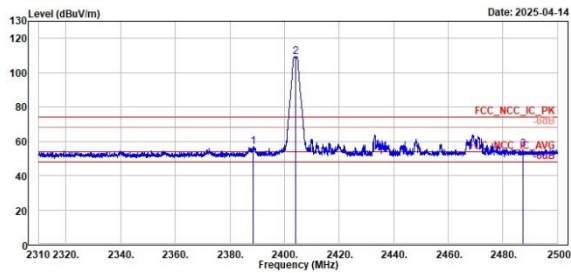


BLE_2M

Low Channel (Horizontal) Peak



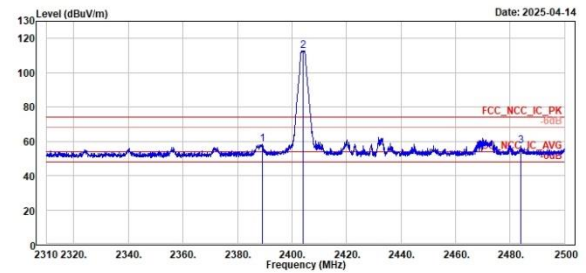
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.52	56.97	18.77	38.20	74.00	-17.03	292	34	Peak	Horizontal		
2 *	2404.00	109.27	70.95	38.32	74.00	35.27	292	34	Peak	Horizontal		
3	2487.37	55.46	16.86	38.60	74.00	-18.54	292	34	Peak	Horizontal		



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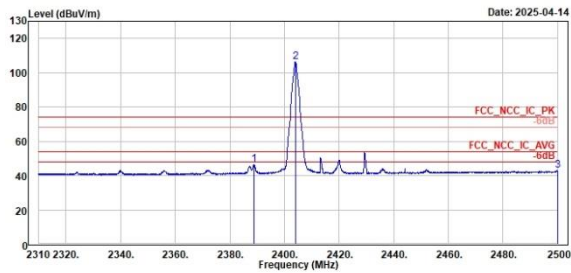
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.14	58.37	20.17	38.20	74.00	-15.63	285	189	Peak	Vertical		
2 *	2404.00	112.68	74.36	38.32	74.00	38.68	285	189	Peak	Vertical		
3	2483.90	57.28	18.68	38.60	74.00	-16.72	285	189	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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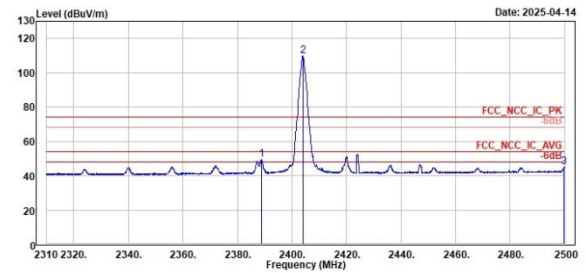


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.90	46.68	8.48	38.20	54.00	-7.32	292	34	Average	Horizontal		
2 *	2404.00	106.48	68.16	38.32	54.00	52.48	292	34	Average	Horizontal		
3	2500.00	43.11	4.49	38.62	54.00	-10.89	292	34	Average	Horizontal		

Low Channel (Vertical) Average



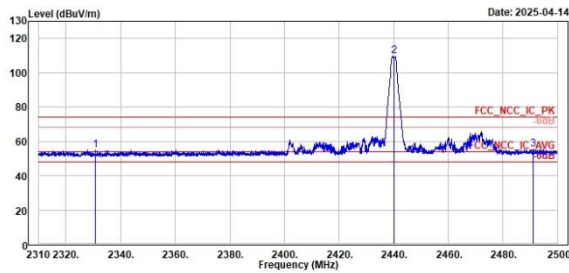
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.00	49.42	11.22	38.20	54.00	-4.58	285	189	Average	Vertical		
2 *	2404.00	109.89	71.57	38.32	54.00	55.89	285	189	Average	Vertical		
3	2499.91	44.92	6.30	38.62	54.00	-9.08	285	189	Average	Vertical		

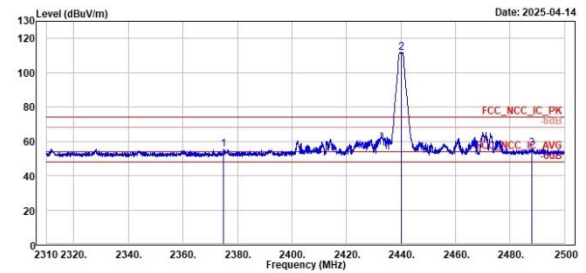
BLE_2M

Middle Channel (Horizontal) Peak



	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	2330.05	55.05	17.27	37.78	74.00	-18.95	207	40	Peak	Horizontal		
2 *	2440.00	109.55	71.04	38.51	74.00	35.55	207	40	Peak	Horizontal		
3	2491.12	55.60	16.99	38.61	74.00	-18.40	207	40	Peak	Horizontal		

Middle Channel (Vertical) Peak



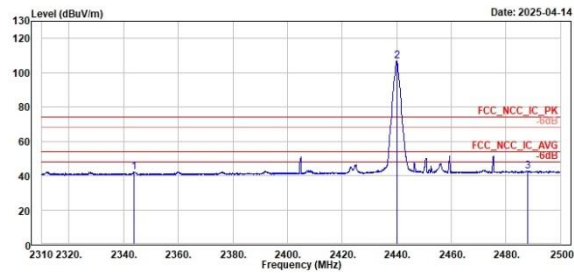
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2374.04	55.59	17.52	38.07	74.00	-18.41	277	180	Peak	Vertical		
2 *	2440.00	111.93	73.42	38.51	74.00	37.93	277	180	Peak	Vertical		
3	2488.00	55.88	17.27	38.61	74.00	-18.12	277	180	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



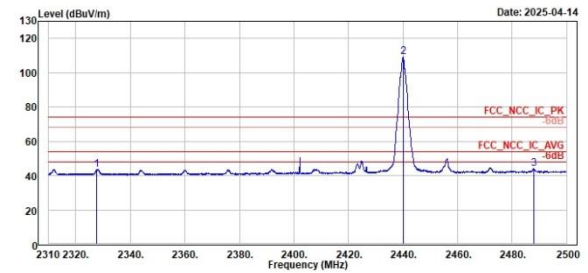
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.73	42.19	4.37	37.82	54.00	-11.81	287	48	Average	Horizontal		
2 *	2440.00	106.68	68.17	38.51	54.00	52.68	287	48	Average	Horizontal		
3	2488.08	42.68	4.07	38.61	54.00	-11.32	287	48	Average	Horizontal		



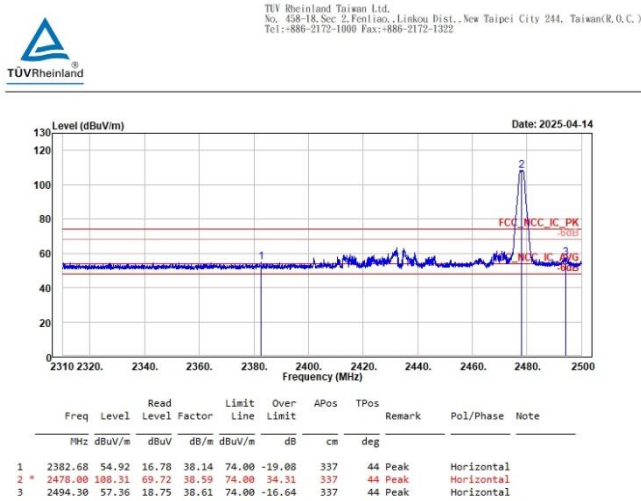
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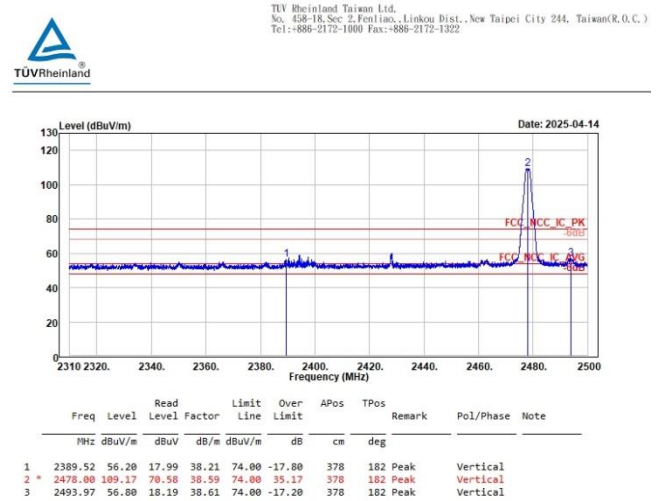
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2327.77	43.68	5.91	37.77	54.00	-10.32	277	180	Average	Vertical		
2 *	2440.00	109.13	70.62	38.51	54.00	55.13	277	180	Average	Vertical		
3	2487.89	44.08	5.47	38.61	54.00	-9.92	277	180	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak



High Channel (Vertical) Peak

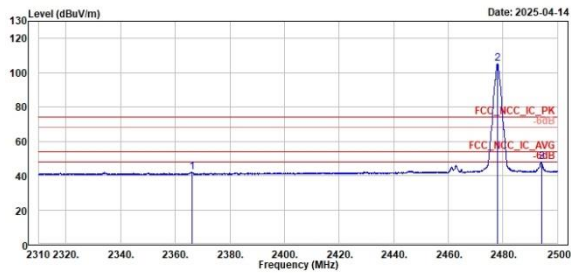


BLE_2M

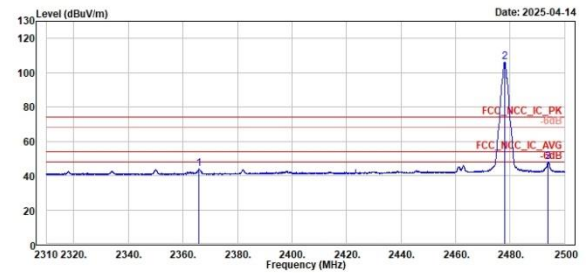
High Channel (Horizontal) Average



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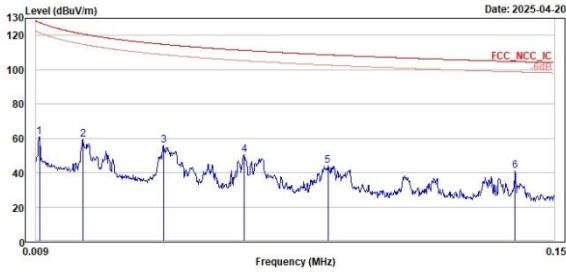
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



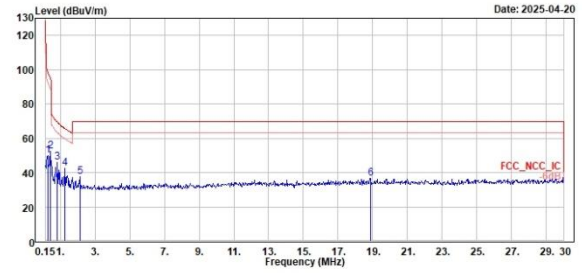
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	60.82	42.71	18.11	127.60	-66.78	100	190 Peak	Open	
2	0.02	59.18	39.58	19.60	126.81	-61.63	100	282 Peak	Open	
3	0.04	55.64	36.63	19.01	114.76	-59.12	100	282 Peak	Open	
4	0.07	50.59	32.33	18.26	111.25	-60.66	100	282 Peak	Open	
5	0.09	43.91	25.86	18.05	108.67	-64.76	100	233 Peak	Open	
6	0.14	41.13	22.86	18.27	104.72	-63.59	100	273 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	0.27	50.10	31.53	18.57	98.99	-48.89	100	228 Peak	Open	
2	0.42	52.43	33.76	18.67	95.17	-42.74	100	184 Peak	Open	
3	0.84	45.73	26.80	18.93	69.15	-23.42	100	184 Peak	Open	
4	1.28	42.39	23.59	18.80	65.43	-23.04	100	184 Peak	Open	
5	2.12	37.63	18.78	18.85	69.50	-31.87	100	184 Peak	Open	
6	18.87	36.76	14.03	22.73	69.50	-32.74	100	126 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

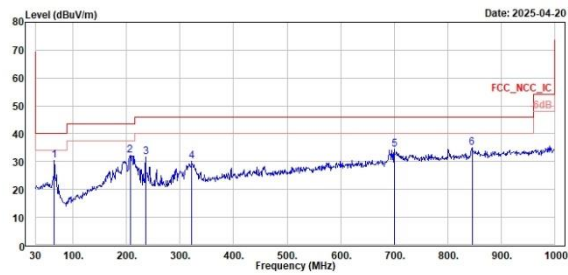
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



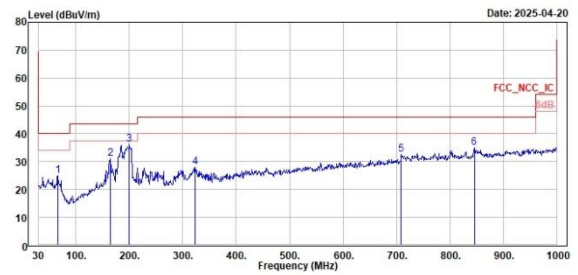
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	64.92	30.27	37.47	-7.20	40.00	-9.73	120	360 Peak	Horizontal	
2	206.54	32.17	40.41	-8.24	43.50	-11.33	120	360 Peak	Horizontal	
3	235.64	31.59	38.45	-6.86	46.00	-14.41	120	360 Peak	Horizontal	
4	321.97	30.14	34.83	-4.69	46.00	-15.86	100	156 Peak	Horizontal	
5	700.27	34.38	32.16	2.22	46.00	-11.62	100	227 Peak	Horizontal	
6	845.77	34.90	30.81	4.09	46.00	-11.10	300	81 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	24.85	32.42	-7.57	40.00	-15.15	100	225 Peak	Vertical	
2	163.86	31.08	36.79	-5.71	43.50	-12.42	100	240 Peak	Vertical	
3	199.75	36.11	44.27	-8.16	43.50	-7.39	200	212 Peak	Vertical	
4	322.94	28.14	32.83	-4.69	46.00	-17.86	100	236 Peak	Vertical	
5	709.00	32.58	30.25	2.33	46.00	-13.42	200	101 Peak	Vertical	
6	845.77	35.03	30.94	4.09	46.00	-10.97	300	360 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

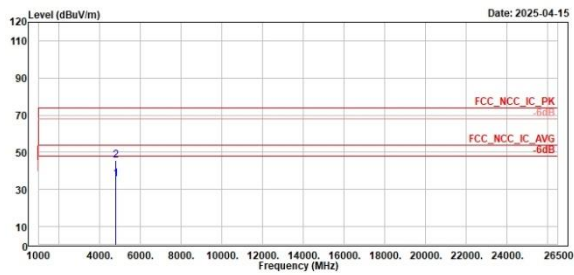
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



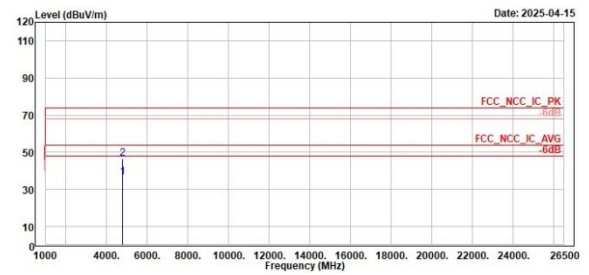
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4804.00	35.67	44.75	-9.08	54.00	-18.33	100	329 Average	Horizontal	
2	4804.00	45.46	54.54	-9.08	74.00	-28.54	100	329 Peak	Horizontal	



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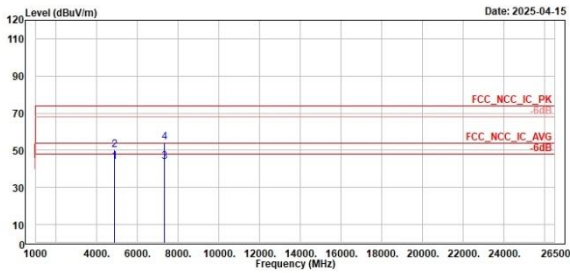
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	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	4804.00	36.30	45.38	-9.08	54.00	-17.70	200	175 Average	Vertical	
2	4804.00	46.72	55.80	-9.08	74.00	-27.28	200	175 Peak	Vertical	

BLE_1M

Middle Channel (Horizontal)



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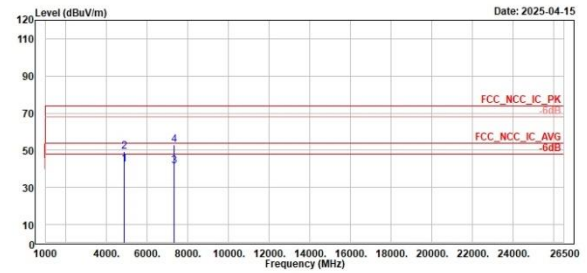


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	43.74	52.61	-8.87	54.00	-10.26	121	32	Average	Horizontal		
2	4880.00	50.19	59.06	-8.87	74.00	-23.81	121	32	Peak	Horizontal		
3	7320.00	43.92	50.59	-6.67	54.00	-10.08	241	293	Average	Horizontal		
4	7320.00	54.20	60.87	-6.67	74.00	-19.08	241	293	Peak	Horizontal		

Middle Channel (Vertical)



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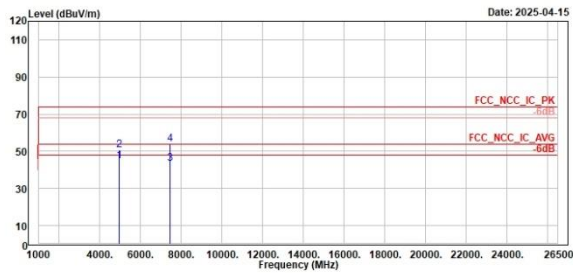
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	42.27	51.14	-8.87	54.00	-11.73	229	180	Average	Vertical		
2	4880.00	49.42	58.29	-8.87	74.00	-24.58	229	180	Peak	Vertical		
3	7320.00	41.51	48.18	-6.67	54.00	-12.49	100	301	Average	Vertical		
4	7320.00	52.73	59.40	-6.67	74.00	-21.27	100	301	Peak	Vertical		

BLE_1M

High Channel (Horizontal)



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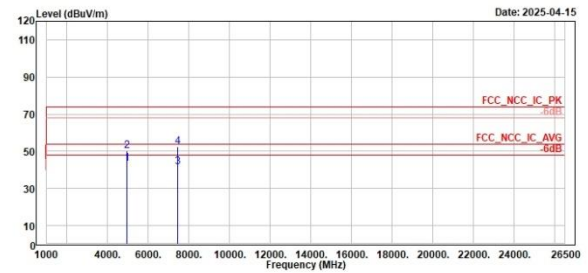


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	44.85	53.54	-8.69	54.00	-9.15	187	39	Average	Horizontal		
2	4960.00	50.86	59.55	-8.69	74.00	-23.14	187	39	Peak	Horizontal		
3	7440.00	43.55	50.29	-6.74	54.00	-10.45	106	332	Average	Horizontal		
4	7440.00	54.03	60.77	-6.74	74.00	-19.97	106	332	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	43.30	51.99	-8.69	54.00	-10.70	234	182	Average	Vertical		
2	4960.00	50.13	58.82	-8.69	74.00	-23.87	234	182	Peak	Vertical		
3	7440.00	41.71	48.45	-6.74	54.00	-12.29	117	293	Average	Vertical		
4	7440.00	52.49	59.23	-6.74	74.00	-21.51	117	293	Peak	Vertical		

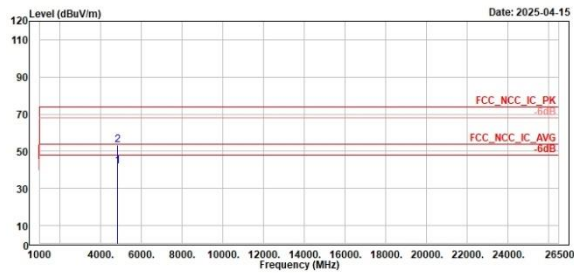
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



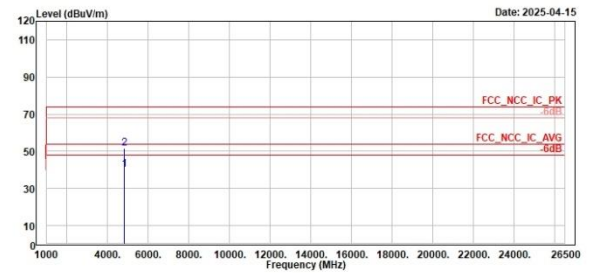
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	42.13	51.20	-9.07	54.00	-11.87	100	29	Average	Horizontal		
2	4880.00	53.17	62.24	-9.07	74.00	-20.83	100	29	Peak	Horizontal		



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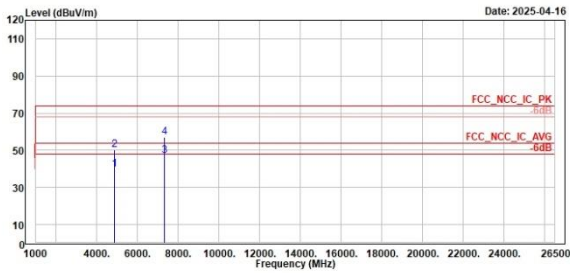
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	39.95	49.02	-9.07	54.00	-14.05	200	176	Average	Vertical		
2	4880.00	51.71	60.78	-9.07	74.00	-22.29	200	176	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal)



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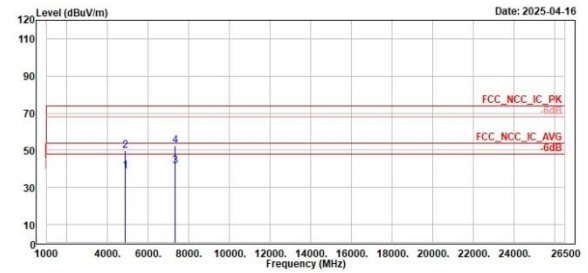


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	cm	deg			
1	4880.00	39.52	48.39	-8.87	54.00	-14.48	190	35 Average	Horizontal	
2	4880.00	50.12	58.99	-8.87	74.00	-23.88	190	35 Peak	Horizontal	
3	7320.00	46.89	53.56	-6.67	54.00	-7.11	260	281 Average	Horizontal	
4	7320.00	56.81	63.48	-6.67	74.00	-17.19	260	281 Peak	Horizontal	

Middle Channel (Vertical)



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	cm	deg			
1	4880.00	38.73	47.60	-8.87	54.00	-15.27	238	179 Average	Vertical	
2	4880.00	49.89	58.76	-8.87	74.00	-24.11	238	179 Peak	Vertical	
3	7320.00	41.56	48.23	-6.67	54.00	-12.44	100	303 Average	Vertical	
4	7320.00	52.32	58.99	-6.67	74.00	-21.68	100	303 Peak	Vertical	

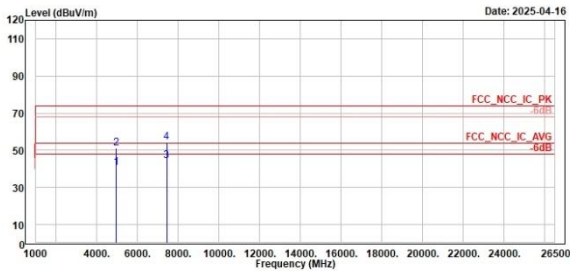
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



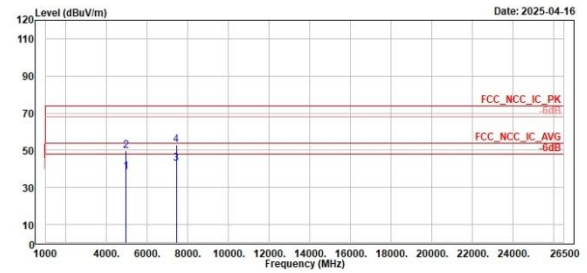
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	40.42	49.08	-8.66	54.00	-13.58	116	98	Average	Horizontal	
2	4956.00	51.05	59.71	-8.66	74.00	-22.95	116	98	Peak	Horizontal	
3	7434.00	44.20	50.94	-6.74	54.00	-9.80	100	325	Average	Horizontal	
4	7434.00	54.47	61.21	-6.74	74.00	-19.53	100	325	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	4956.00	38.51	47.17	-8.66	54.00	-15.49	361	178	Average	Vertical	
2	4956.00	49.58	58.24	-8.66	74.00	-24.42	361	178	Peak	Vertical	
3	7434.00	42.92	49.66	-6.74	54.00	-11.08	116	296	Average	Vertical	
4	7434.00	53.08	59.82	-6.74	74.00	-20.92	116	296	Peak	Vertical	

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

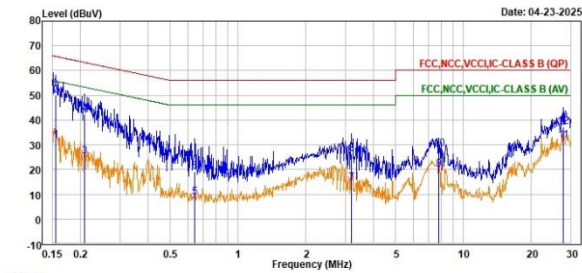
Worst Band

(Line)

(Neutral)



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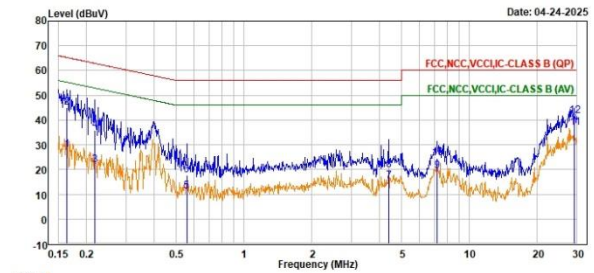


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	31.70	22.07	9.63	55.71	-24.01	Average	line1	
2	0.16	49.94	40.31	9.63	65.71	-15.77	QP	line1	
3	0.21	25.34	15.71	9.63	53.31	-27.97	Average	line1	
4	0.21	42.41	32.78	9.63	63.31	-20.90	QP	line1	
5	0.64	8.81	-0.82	9.63	46.00	-37.19	Average	line1	
6	0.64	18.94	9.31	9.63	56.00	-37.00	QP	line1	
7	3.18	14.75	5.07	9.68	46.00	-31.25	Average	line1	
8	3.18	26.18	16.50	9.68	56.00	-29.82	QP	line1	
9	7.77	20.15	10.42	9.73	50.00	-29.85	Average	line1	
10	7.77	28.24	18.51	9.73	60.00	-31.76	QP	line1	
11	27.70	31.87	22.18	9.69	50.00	-18.13	Average	line1	
12	27.70	37.23	27.54	9.69	60.00	-22.77	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	28.08	18.44	9.64	55.30	-27.22	Average	neutral	
2	0.16	45.25	35.61	9.64	65.30	-20.05	QP	neutral	
3	0.22	21.94	12.31	9.63	52.94	-31.00	Average	neutral	
4	0.22	35.76	26.13	9.63	62.94	-27.18	QP	neutral	
5	0.56	11.24	1.61	9.63	46.00	-34.76	Average	neutral	
6	0.56	17.63	8.00	9.63	56.00	-38.37	QP	neutral	
7	4.38	15.30	5.60	9.70	46.00	-30.70	Average	neutral	
8	4.38	19.06	10.16	9.70	56.00	-36.14	QP	neutral	
9	7.18	19.27	9.53	9.74	50.00	-30.73	Average	neutral	
10	7.18	24.44	14.70	9.74	60.00	-35.56	QP	neutral	
11	29.41	36.78	26.94	9.84	50.00	-13.22	Average	neutral	
12	29.41	41.56	31.72	9.84	60.00	-18.44	QP	neutral	

ANT 11, 2nd Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

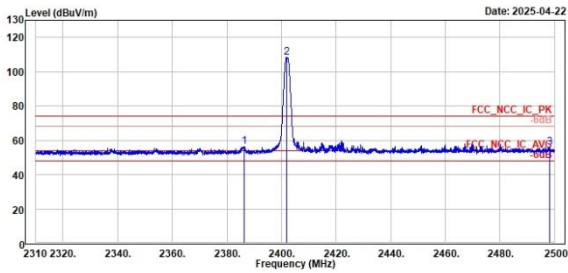
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



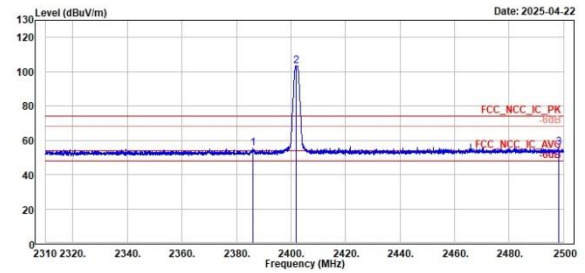
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	2386.38	56.14	18.09	38.05	74.00	-17.06	257	61 Peak	Horizontal	
2 *	2402.00	108.02	69.83	38.19	74.00	34.02	257	61 Peak	Horizontal	
3	2498.10	55.92	17.43	38.49	74.00	-18.08	257	61 Peak	Horizontal	



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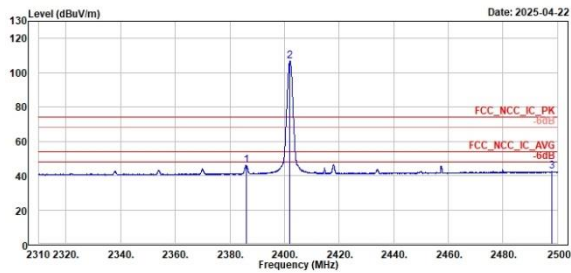
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit	dB	cm	deg		
1	2386.00	55.17	17.12	38.05	74.00	-18.83	330	276 Peak	Vertical	
2 *	2402.00	103.43	65.24	38.19	74.00	29.43	330	276 Peak	Vertical	
3	2498.24	55.91	17.42	38.49	74.00	-18.09	330	276 Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



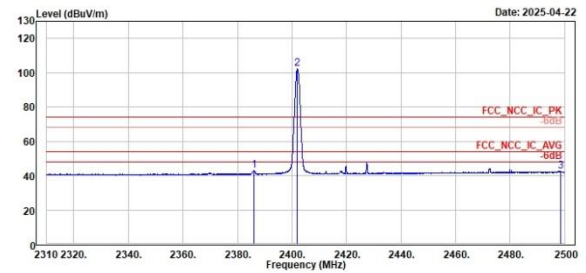
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.19	46.13	8.08	38.05	54.00	-7.87	257	61	Average	Horizontal		
2 *	2402.00	106.99	68.80	38.19	54.00	52.99	257	61	Average	Horizontal		
3	2497.86	42.41	3.92	38.49	54.00	-11.59	257	61	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	2386.00	43.21	5.16	38.05	54.00	-10.79	330	276	Average	Vertical		
2 *	2402.00	102.42	64.23	38.19	54.00	48.42	330	276	Average	Vertical		
3	2498.39	42.42	3.93	38.49	54.00	-11.58	330	276	Average	Vertical		

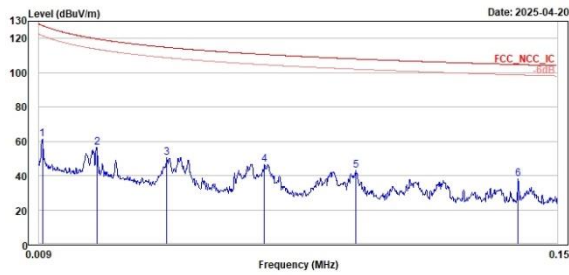
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



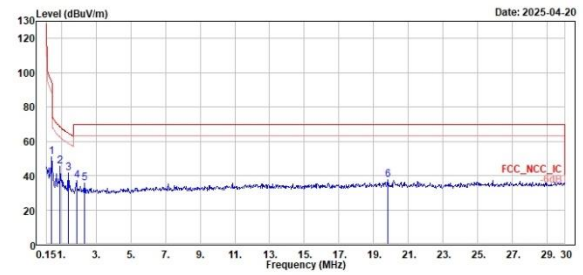
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.01	61.17	43.06	18.11	127.60	-66.43	100		79 Peak	Open		
2	0.02	56.25	36.50	19.75	119.70	-63.45	100		301 Peak	Open		
3	0.04	50.51	31.50	19.01	114.76	-64.25	100		249 Peak	Open		
4	0.07	46.44	27.93	18.51	110.65	-64.21	100		283 Peak	Open		
5	0.10	42.91	24.88	18.03	108.03	-65.12	100		264 Peak	Open		
6	0.14	38.07	19.80	18.27	104.72	-66.65	100		199 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	0.45	50.76	32.06	18.70	94.57	-43.81	100		201 Peak	Open		
2	0.93	45.41	26.56	18.85	68.27	-22.86	100		201 Peak	Open		
3	1.40	41.49	22.68	18.81	64.66	-23.17	100		188 Peak	Open		
4	1.88	37.26	18.43	18.83	69.50	-32.24	100		188 Peak	Open		
5	2.36	35.48	16.59	18.89	69.50	-34.02	100		201 Peak	Open		
6	19.79	37.45	14.61	22.84	69.50	-32.05	100		117 Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

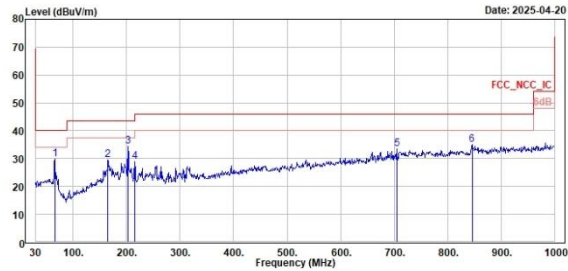
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



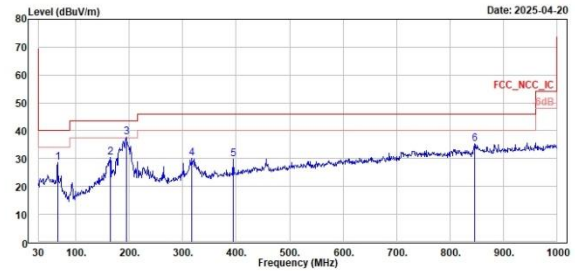
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	65.89	29.88	37.37	-7.57	40.00	-10.20	300	148	Peak	Horizontal		
2	164.83	29.66	35.44	-5.78	43.50	-13.84	100	198	Peak	Horizontal		
3	202.66	34.35	42.52	-8.17	43.50	-9.15	100	205	Peak	Horizontal		
4	215.27	28.94	37.24	-8.30	43.50	-14.56	100	279	Peak	Horizontal		
5	705.12	33.42	31.10	2.32	46.00	-12.58	100	231	Peak	Horizontal		
6	845.77	34.92	36.83	4.09	46.00	-11.08	132	0	Peak	Horizontal		



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Peak	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	65.89	28.59	36.16	-7.57	40.00	-11.41	299	360	Peak	Vertical		
2	163.86	30.35	36.06	-5.71	43.50	-13.15	100	254	Peak	Vertical		
3	193.93	37.65	45.76	-8.11	43.50	-5.85	100	206	Peak	Vertical		
4	317.12	30.25	35.05	-4.80	46.00	-15.75	226	360	Peak	Vertical		
5	393.75	29.71	33.03	-3.32	46.00	-16.29	100	219	Peak	Vertical		
6	846.74	35.34	31.23	4.11	46.00	-10.66	100	164	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

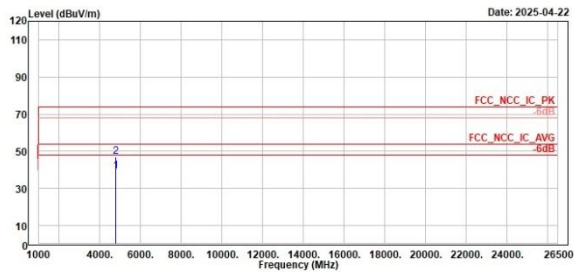
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



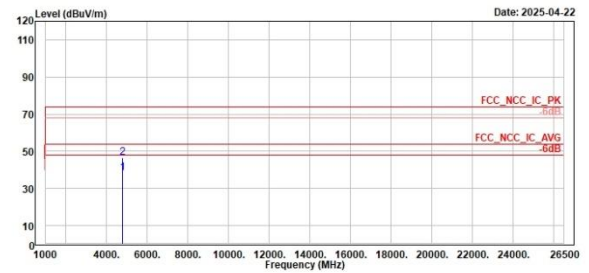
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	39.14	48.35	-9.21	54.00	-14.86	100	98	Average	Horizontal		
2	4804.00	47.06	56.27	-9.21	74.00	-26.94	100	98	Peak	Horizontal		



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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	4804.00	38.53	47.74	-9.21	54.00	-15.47	233	169	Average	Vertical		
2	4804.00	46.59	55.80	-9.21	74.00	-27.41	233	169	Peak	Vertical		

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

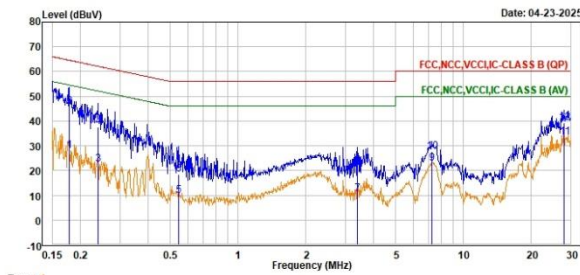
Worst Band

(Line)

(Neutral)



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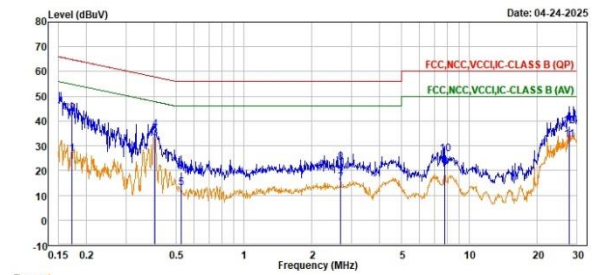


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.18	27.96	18.33	9.63	54.59	-26.63 Average	line1
2	0.18	45.88	36.25	9.63	64.59	-18.71 QP	line1
3	0.24	22.62	12.99	9.63	52.15	-29.53 Average	line1
4	0.24	37.73	28.10	9.63	62.15	-24.42 QP	line1
5	0.54	9.94	0.31	9.63	46.00	-36.06 Average	line1
6	0.54	18.47	8.84	9.63	56.00	-37.53 QP	line1
7	3.38	10.69	1.01	9.68	46.00	-35.31 Average	line1
8	3.38	21.69	12.01	9.68	56.00	-34.31 QP	line1
9	7.28	22.87	13.15	9.72	50.00	-27.13 Average	line1
10	7.28	27.50	17.78	9.72	60.00	-32.50 QP	line1
11	28.12	33.49	23.80	9.69	50.00	-16.51 Average	line1
12	28.12	39.14	29.45	9.69	60.00	-20.86 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.17	26.64	17.00	9.64	54.88	-28.24 Average	neutral
2	0.17	43.06	33.42	9.64	64.88	-21.82 QP	neutral
3	0.40	33.18	23.55	9.63	47.84	-14.66 Average	neutral
4	0.40	36.62	26.99	9.63	57.84	-21.22 QP	neutral
5	0.53	13.06	3.43	9.63	46.00	-32.94 Average	neutral
6	0.53	19.50	9.87	9.63	56.00	-36.50 QP	neutral
7	2.69	14.83	5.16	9.67	46.00	-31.17 Average	neutral
8	2.69	23.23	13.56	9.67	56.00	-32.77 QP	neutral
9	7.81	21.54	11.78	9.76	50.00	-28.46 Average	neutral
10	7.81	26.62	16.86	9.76	60.00	-33.38 QP	neutral
11	27.70	32.47	22.62	9.85	50.00	-17.53 Average	neutral
12	27.70	37.89	28.04	9.85	60.00	-22.11 QP	neutral

ANT 11, Main Source, Non- ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

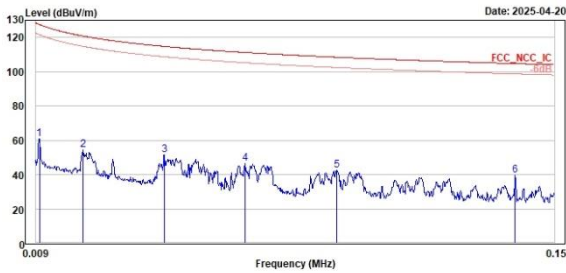
BLE_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



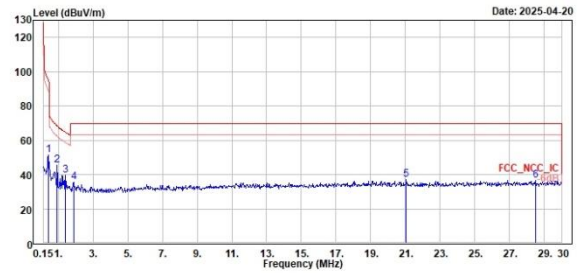
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	60.90	42.79	18.11	127.60	-66.70	100	65	Peak	Open	
2	0.02	54.43	34.82	19.61	120.75	-66.32	100	310	Peak	Open	
3	0.04	51.45	32.44	19.01	114.73	-63.28	100	310	Peak	Open	
4	0.07	46.54	28.27	18.27	111.23	-64.69	100	310	Peak	Open	
5	0.09	42.40	24.38	18.02	108.44	-66.04	100	271	Peak	Open	
6	0.14	39.50	21.23	18.27	104.72	-65.22	100	222	Peak	Open	



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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	0.45	51.47	32.77	18.70	94.57	-43.10	100	177	Peak	Open	
2	0.93	45.59	26.74	18.85	68.27	-22.68	100	218	Peak	Open	
3	1.40	39.77	20.96	18.81	64.66	-24.89	100	177	Peak	Open	
4	1.88	35.69	16.86	18.83	69.50	-33.81	100	177	Peak	Open	
5	21.05	37.08	14.42	22.66	69.50	-32.42	100	108	Peak	Open	
6	28.48	36.64	13.50	23.14	69.50	-32.86	100	291	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

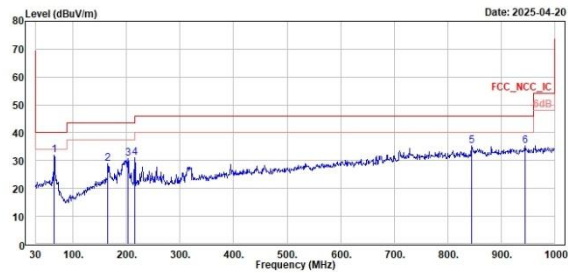
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



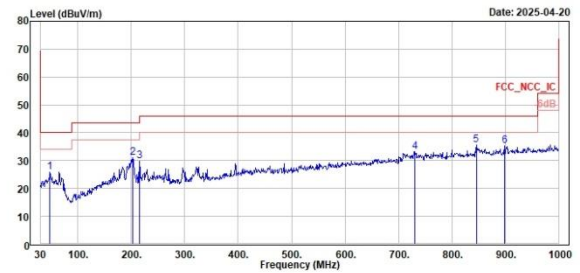
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	64.92	31.02	39.02	-7.20	40.00	-8.18	200	144	Peak	Horizontal		
2	164.83	29.03	34.81	-5.78	43.50	-14.47	100	206	Peak	Horizontal		
3	202.66	30.64	38.81	-8.17	43.50	-12.86	200	297	Peak	Horizontal		
4	215.27	31.04	39.34	-8.30	43.50	-12.46	100	168	Peak	Horizontal		
5	844.80	35.32	31.25	4.07	46.00	-10.68	200	146	Peak	Horizontal		
6	944.71	35.32	29.63	5.69	46.00	-10.68	100	4	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	47.46	25.61	31.71	-5.90	40.00	-14.19	100	241	Peak	Vertical		
2	202.66	30.91	39.08	-8.17	43.50	-12.59	100	56	Peak	Vertical		
3	215.27	29.73	38.03	-8.30	43.50	-13.77	100	179	Peak	Vertical		
4	731.31	33.21	30.42	2.79	46.00	-12.79	171	360	Peak	Vertical		
5	845.77	35.45	31.36	4.09	46.00	-10.55	100	300	Peak	Vertical		
6	899.12	35.34	30.43	4.91	46.00	-10.66	100	182	Peak	Vertical		

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

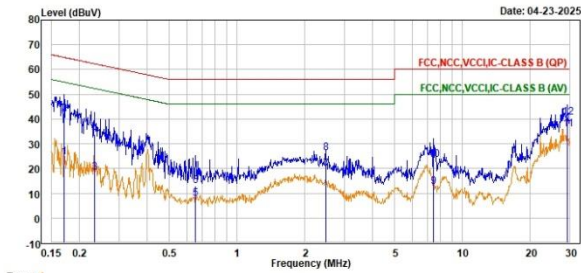
Worst Band

(Line)

(Neutral)



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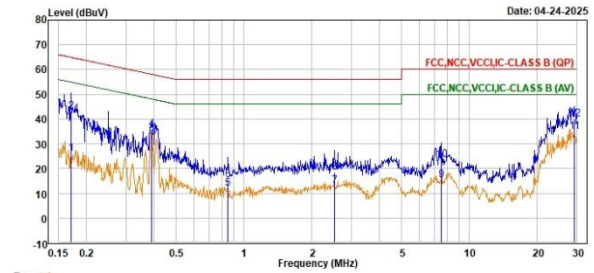


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.17	24.50	14.87	9.63	54.92	-30.42 Average	line1
2	0.17	42.13	32.50	9.63	64.92	-22.79 QP	line1
3	0.23	18.50	8.87	9.63	52.36	-33.86 Average	line1
4	0.23	33.79	24.16	9.63	62.36	-28.57 QP	line1
5	0.65	7.91	-1.72	9.63	46.00	-38.09 Average	line1
6	0.65	13.02	3.39	9.63	56.00	-42.98 QP	line1
7	2.47	19.91	10.25	9.66	46.00	-26.09 Average	line1
8	2.47	26.19	16.53	9.66	56.00	-29.81 QP	line1
9	7.47	12.73	3.01	9.72	50.00	-37.27 Average	line1
10	7.47	23.54	13.82	9.72	60.00	-36.46 QP	line1
11	29.41	35.95	26.28	9.67	50.00	-14.05 Average	line1
12	29.41	40.77	31.10	9.67	60.00	-19.23 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.17	25.88	16.24	9.64	54.97	-29.09 Average	neutral
2	0.17	43.14	33.50	9.64	64.97	-21.83 QP	neutral
3	0.39	32.86	23.23	9.63	48.09	-15.23 Average	neutral
4	0.39	35.93	26.30	9.63	58.09	-22.16 QP	neutral
5	0.85	12.06	2.42	9.64	46.00	-33.94 Average	neutral
6	0.85	15.41	5.77	9.64	56.00	-40.59 QP	neutral
7	2.52	12.99	3.32	9.67	46.00	-33.01 Average	neutral
8	2.52	18.53	8.86	9.67	56.00	-37.47 QP	neutral
9	7.54	15.37	5.62	9.75	50.00	-34.63 Average	neutral
10	7.54	23.46	13.71	9.75	60.00	-36.54 QP	neutral
11	29.26	34.80	24.96	9.84	50.00	-15.20 Average	neutral
12	29.26	39.99	30.15	9.84	60.00	-20.01 QP	neutral

ANT 11, 2nd Source, Non- ECC, PIC32WM-BZ6204UE
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

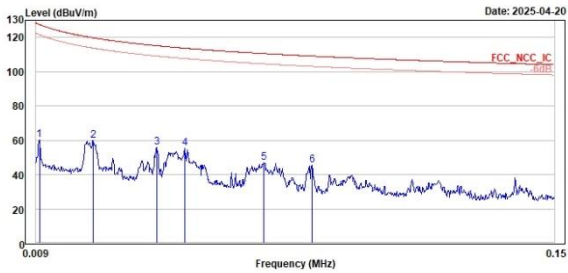
BLE_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



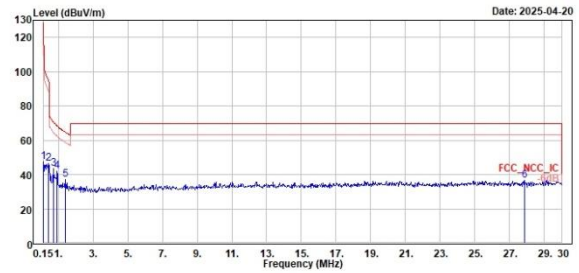
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	60.21	42.10	18.11	127.60	-67.39	100	381 Peak	Open	
2	0.02	59.85	40.11	19.74	119.75	-59.90	100	295 Peak	Open	
3	0.04	55.93	36.92	19.01	115.16	-59.23	100	287 Peak	Open	
4	0.05	55.11	36.09	19.02	113.71	-58.60	100	295 Peak	Open	
5	0.07	46.85	28.36	18.49	110.56	-63.71	100	251 Peak	Open	
6	0.08	45.38	27.24	18.14	109.11	-63.73	100	287 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	0.15	47.50	29.16	18.34	104.80	-56.58	100	258 Peak	Open	
2	0.45	46.68	27.98	18.70	94.57	-47.89	100	285 Peak	Open	
3	0.72	43.33	24.53	18.80	70.49	-27.16	100	296 Peak	Open	
4	0.93	42.03	23.18	18.85	68.27	-26.24	100	285 Peak	Open	
5	1.40	37.24	18.43	18.81	64.66	-27.42	100	285 Peak	Open	
6	27.85	36.55	13.52	23.03	69.50	-32.95	100	255 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

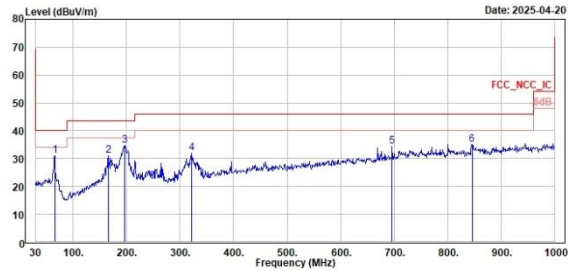
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



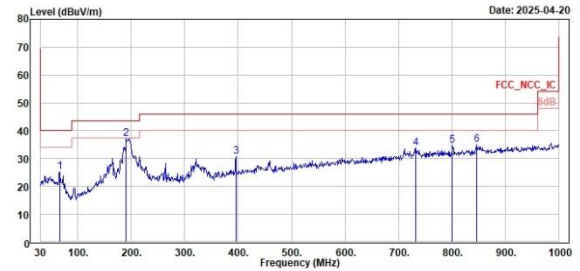
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	65.89	30.99	38.56	-7.57	40.00	-9.01	300	152 Peak		Horizontal		
2	165.80	31.01	36.73	-5.72	43.50	-12.49	200	220 Peak		Horizontal		
3	195.87	34.73	42.92	-8.19	43.50	-8.77	200	351 Peak		Horizontal		
4	321.00	31.84	36.53	-4.69	46.00	-14.16	100	210 Peak		Horizontal		
5	696.39	34.45	32.26	2.19	46.00	-11.55	100	218 Peak		Horizontal		
6	845.77	35.12	31.03	4.09	46.00	-10.88	300	66 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	65.89	25.31	32.88	-7.57	40.00	-14.69	200	63 Peak		Vertical		
2	190.05	37.18	45.04	-7.86	43.50	-6.32	100	166 Peak		Vertical		
3	395.69	30.62	33.91	-3.29	46.00	-15.38	100	211 Peak		Vertical		
4	732.28	33.70	30.91	2.79	46.00	-12.30	200	201 Peak		Vertical		
5	801.15	34.56	30.88	3.68	46.00	-11.44	200	155 Peak		Vertical		
6	846.74	34.93	30.82	4.11	46.00	-11.07	100	11 Peak		Vertical		

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

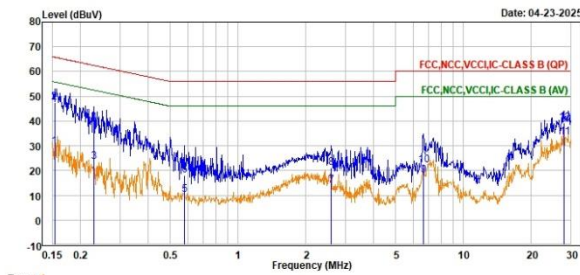
Worst Band

(Line)

(Neutral)



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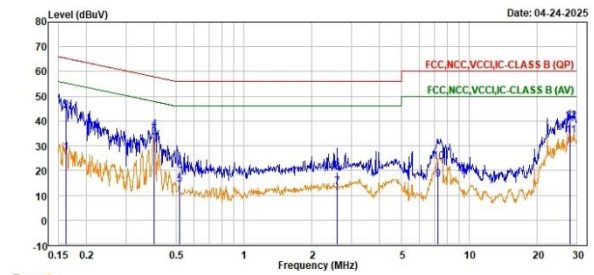


Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Level Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.15	29.77	20.14	9.63	55.83	-26.06 Average	line1	
2	0.15	47.36	37.73	9.63	65.83	-18.47 QP	line1	
3	0.23	23.51	13.88	9.63	52.48	-28.97 Average	line1	
4	0.23	39.40	29.77	9.63	62.48	-23.08 QP	line1	
5	0.58	10.24	0.61	9.63	46.00	-35.76 Average	line1	
6	0.58	18.23	8.60	9.63	56.00	-37.77 QP	line1	
7	2.60	13.98	4.32	9.66	46.00	-32.02 Average	line1	
8	2.60	21.13	11.47	9.66	56.00	-34.87 QP	line1	
9	6.66	17.93	8.21	9.72	50.00	-32.07 Average	line1	
10	6.66	22.23	12.51	9.72	60.00	-37.77 QP	line1	
11	28.12	33.54	23.85	9.69	50.00	-16.46 Average	line1	
12	28.12	39.29	29.60	9.69	60.00	-20.71 QP	line1	



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Trace: 1

	Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	Level Factor	Line	Limit			
		dBuV	dB	dBuV	dB			
1	0.16	27.44	17.80	9.64	55.38	-27.94 Average	neutral	
2	0.16	44.21	34.57	9.64	65.38	-21.17 QP	neutral	
3	0.40	33.59	23.96	9.63	47.89	-14.30 Average	neutral	
4	0.40	36.62	26.99	9.63	57.89	-21.27 QP	neutral	
5	0.52	14.17	4.54	9.63	46.00	-31.83 Average	neutral	
6	0.52	19.80	10.17	9.63	56.00	-36.20 QP	neutral	
7	2.60	13.36	3.69	9.67	46.00	-32.64 Average	neutral	
8	2.60	19.56	9.89	9.67	56.00	-36.44 QP	neutral	
9	7.28	16.40	6.66	9.74	50.00	-33.60 Average	neutral	
10	7.28	23.41	13.67	9.74	60.00	-36.59 QP	neutral	
11	28.12	34.27	24.42	9.85	50.00	-15.73 Average	neutral	
12	28.12	39.92	30.07	9.85	60.00	-20.08 QP	neutral	

ANT 12, Main Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

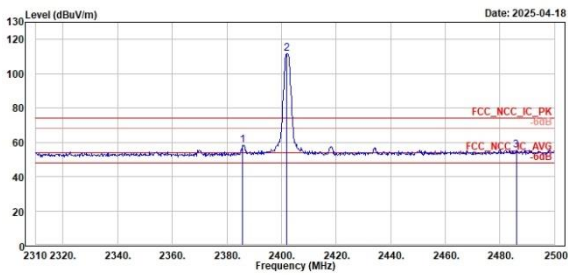
BLE_1M

Low Channel (Horizontal) Peak

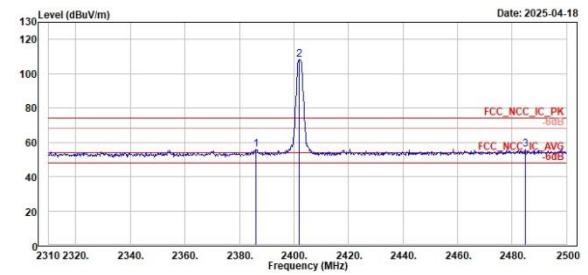
Low Channel (Vertical) Peak



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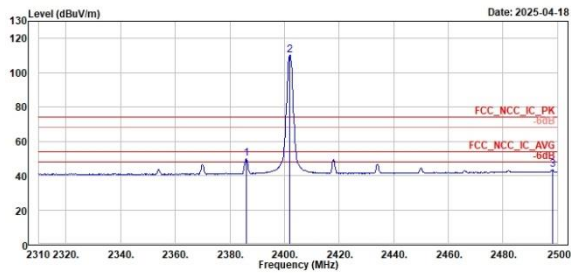


BLE_1M

Low Channel (Horizontal) Average



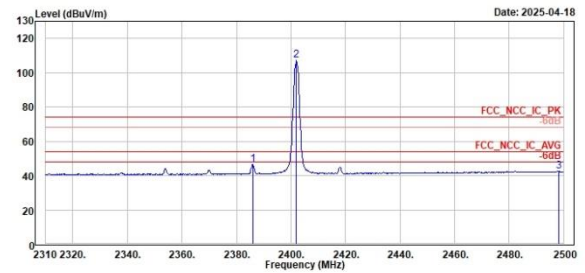
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Low Channel (Vertical) Average



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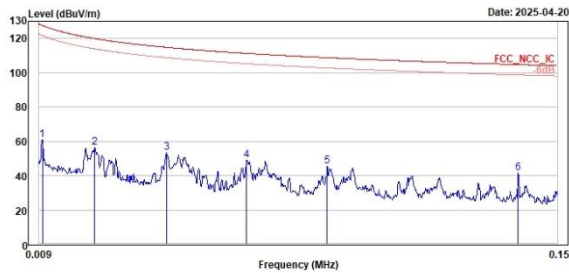
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



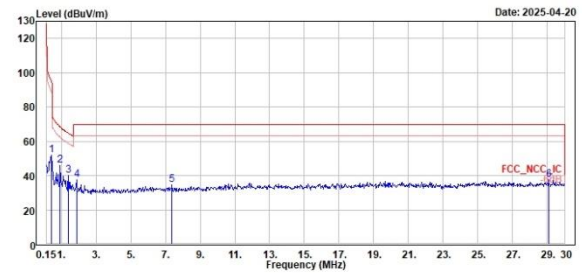
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.01	61.03	42.92	18.11	127.60	-66.57	100	204	Peak	Open		
2	0.02	56.12	36.40	19.72	119.90	-63.78	100	263	Peak	Open		
3	0.04	53.41	34.40	19.01	114.79	-61.38	100	289	Peak	Open		
4	0.07	49.15	30.90	18.25	111.26	-62.11	100	289	Peak	Open		
5	0.09	45.25	27.18	18.07	108.77	-63.52	100	289	Peak	Open		
6	0.14	41.59	23.32	18.27	104.72	-63.13	100	210	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	0.45	51.96	33.26	18.70	94.57	-42.61	100	121	Peak	Open		
2	0.93	45.94	27.09	18.85	68.27	-22.33	100	77	Peak	Open		
3	1.40	40.02	21.21	18.81	64.66	-24.64	100	323	Peak	Open		
4	1.88	37.34	18.51	18.83	69.50	-32.16	100	101	Peak	Open		
5	7.37	34.69	13.92	20.77	69.50	-34.81	100	262	Peak	Open		
6	29.07	37.56	14.32	23.24	69.50	-31.94	100	111	Peak	Open		

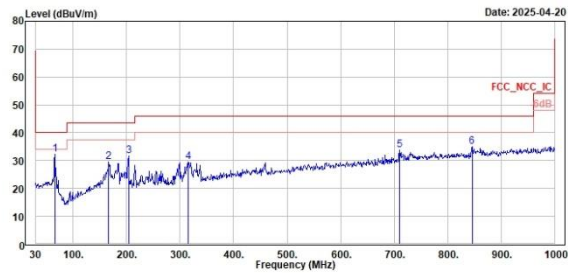
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M

Low Channel (Horizontal)



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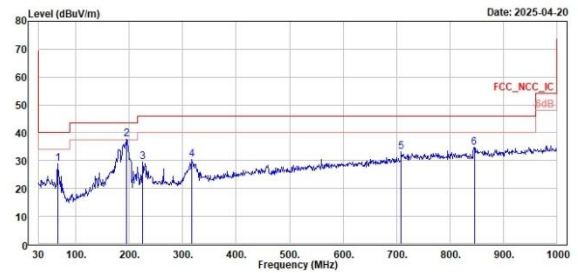


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	32.20	39.77	-7.57	40.00	-7.80	298	0	Peak	Horizontal		
2	166.77	29.45	35.28	-5.83	43.50	-14.05	100	204	Peak	Horizontal		
3	203.63	31.65	39.82	-8.17	43.50	-11.85	100	206	Peak	Horizontal		
4	315.18	29.53	34.41	-4.88	46.00	-16.47	100	148	Peak	Horizontal		
5	709.97	33.84	31.51	2.33	46.00	-12.16	100	150	Peak	Horizontal		
6	845.77	35.09	31.00	4.09	46.00	-10.91	101	360	Peak	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	65.86	28.91	36.69	-7.78	40.00	-11.09	300	97	Peak	Vertical		
2	194.90	37.61	45.72	-8.11	43.50	-5.89	100	243	Peak	Vertical		
3	224.97	29.47	37.40	-7.93	46.00	-16.53	100	360	Peak	Vertical		
4	316.15	30.31	35.14	-4.83	46.00	-15.69	200	177	Peak	Vertical		
5	709.00	33.14	30.81	2.33	46.00	-12.86	100	227	Peak	Vertical		
6	845.77	34.75	30.66	4.09	46.00	-11.25	200	0	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

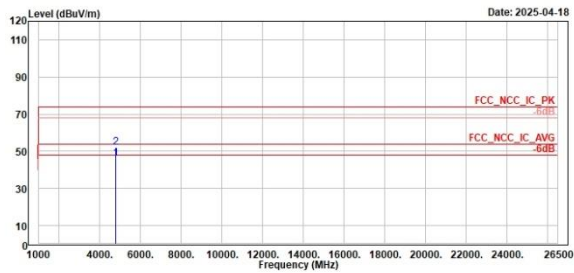
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



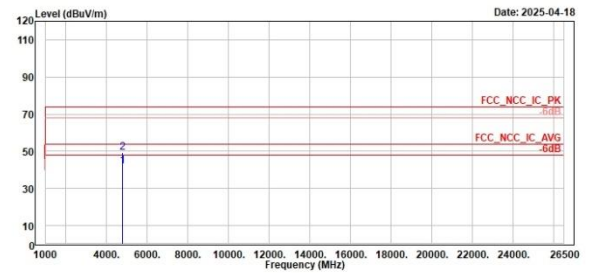
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	46.24	55.32	-9.08	54.00	-7.76	100	31	Average	Horizontal		
2	4804.00	52.19	61.27	-9.08	74.00	-21.81	100	31	Peak	Horizontal		



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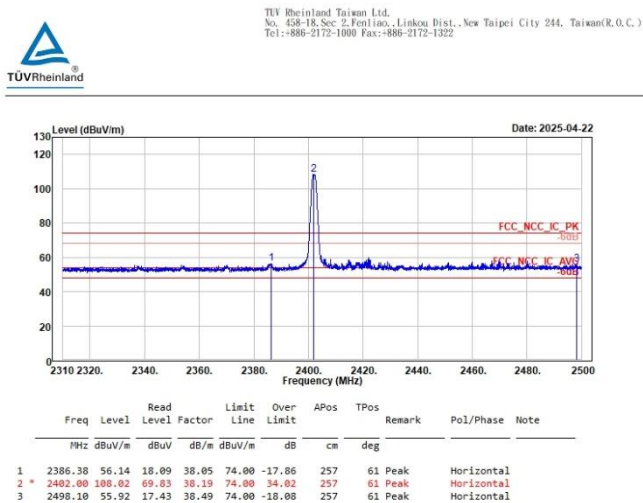
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	42.17	51.25	-9.08	54.00	-11.83	356	115	Average	Vertical		
2	4804.00	49.08	58.16	-9.08	74.00	-24.92	356	115	Peak	Vertical		

ANT 12, 2nd Source, ECC, PIC32WM-BZ6204UC

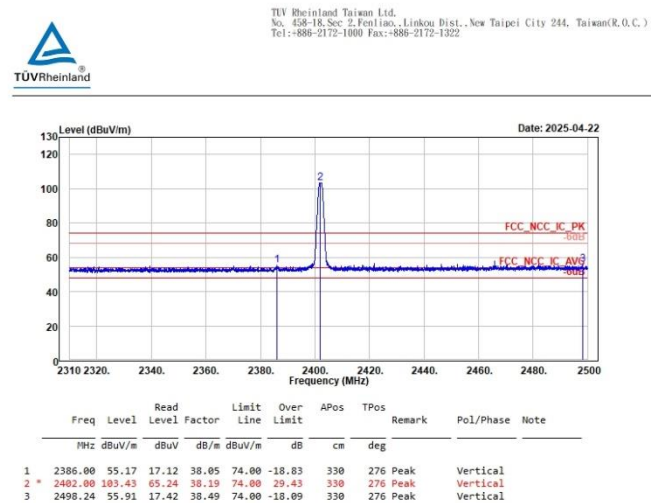
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



Low Channel (Vertical) Peak

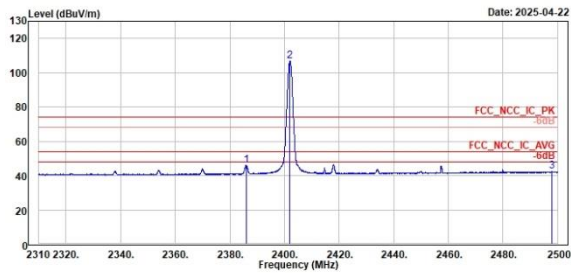


BLE_1M

Low Channel (Horizontal) Average



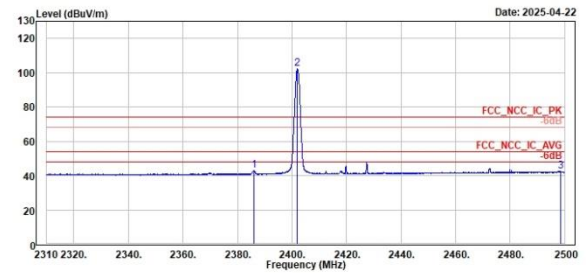
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.19	46.13	8.08	38.05	54.00	-7.87	257	61	Average	Horizontal		
2 *	2402.00	106.99	68.80	38.19	54.00	52.99	257	61	Average	Horizontal		
3	2497.86	42.41	3.92	38.49	54.00	-11.59	257	61	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	2386.00	43.21	5.16	38.05	54.00	-10.79	330	276	Average	Vertical		
2 *	2402.00	102.42	64.23	38.19	54.00	48.42	330	276	Average	Vertical		
3	2498.39	42.42	3.93	38.49	54.00	-11.58	330	276	Average	Vertical		

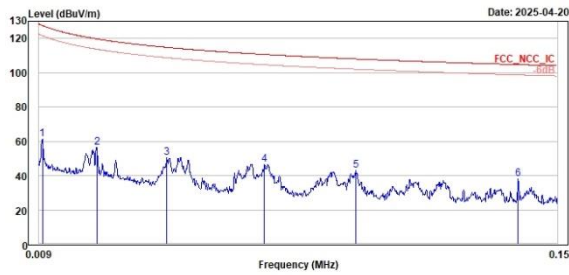
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



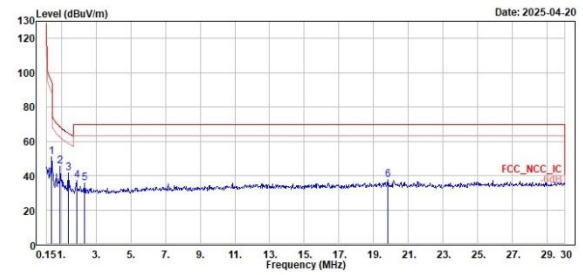
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.01	61.17	43.06	18.11	127.60	-66.43	100		79 Peak	Open		
2	0.02	56.25	36.50	19.75	119.70	-63.45	100		301 Peak	Open		
3	0.04	50.51	31.50	19.01	114.76	-64.25	100		249 Peak	Open		
4	0.07	46.44	27.93	18.51	110.65	-64.21	100		283 Peak	Open		
5	0.10	42.91	24.88	18.03	108.03	-65.12	100		264 Peak	Open		
6	0.14	38.07	19.80	18.27	104.72	-66.65	100		199 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	0.45	50.76	32.06	18.70	94.57	-43.81	100		201 Peak	Open		
2	0.93	45.41	26.56	18.85	68.27	-22.86	100		201 Peak	Open		
3	1.40	41.49	22.68	18.81	64.66	-23.17	100		188 Peak	Open		
4	1.88	37.26	18.43	18.83	69.50	-32.24	100		188 Peak	Open		
5	2.36	35.48	16.59	18.89	69.50	-34.02	100		201 Peak	Open		
6	19.79	37.45	14.61	22.84	69.50	-32.05	100		117 Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

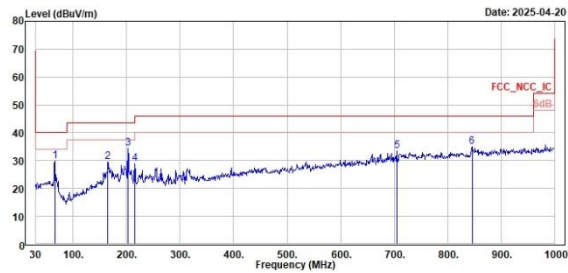
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



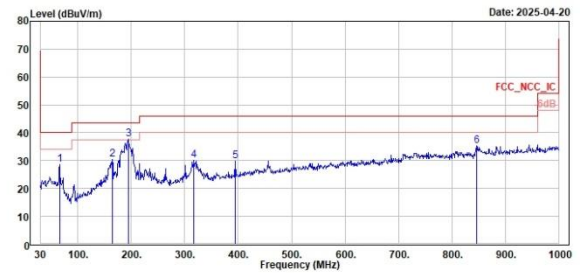
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	29.88	37.37	-7.57	40.00	-10.20	300	148	Peak	Horizontal		
2	164.83	29.66	35.44	-5.78	43.50	-13.84	100	198	Peak	Horizontal		
3	202.66	34.35	42.52	-8.17	43.50	-9.15	100	205	Peak	Horizontal		
4	215.27	28.94	37.24	-8.30	43.50	-14.56	100	279	Peak	Horizontal		
5	705.12	33.42	31.10	2.32	46.00	-12.58	100	231	Peak	Horizontal		
6	845.77	34.92	36.83	4.09	46.00	-11.08	132	0	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	28.59	36.16	-7.57	40.00	-11.41	299	360	Peak	Vertical		
2	163.86	30.35	36.06	-5.71	43.50	-13.15	100	254	Peak	Vertical		
3	193.93	37.65	45.76	-8.11	43.50	-5.85	100	206	Peak	Vertical		
4	317.12	30.25	35.05	-4.80	46.00	-15.75	226	360	Peak	Vertical		
5	393.75	29.71	33.03	-3.32	46.00	-16.29	100	219	Peak	Vertical		
6	846.74	35.34	31.23	4.11	46.00	-10.66	100	164	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

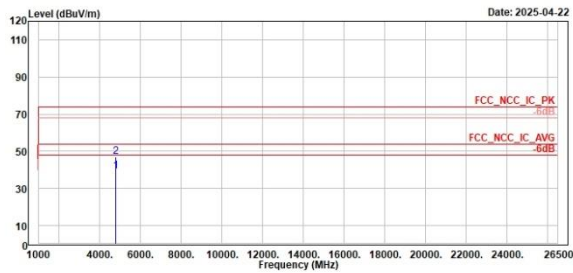
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



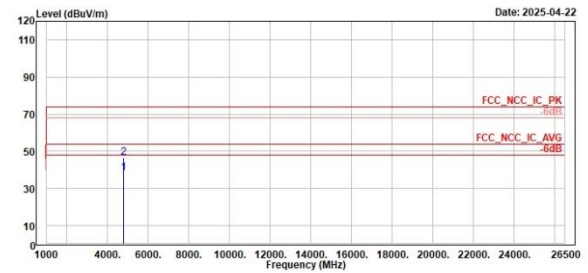
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	39.14	48.35	-9.21	54.00	-14.86	100	98	Average	Horizontal	
2	4804.00	47.06	56.27	-9.21	74.00	-26.94	100	98	Peak	Horizontal	



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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	4804.00	38.53	47.74	-9.21	54.00	-15.47	233	169	Average	Vertical	
2	4804.00	46.59	55.80	-9.21	74.00	-27.41	233	169	Peak	Vertical	

ANT 13, Main Source, ECC, PIC32WM-BZ6204UC
Band Edges, 2.31GHz ~ 2.5GHz

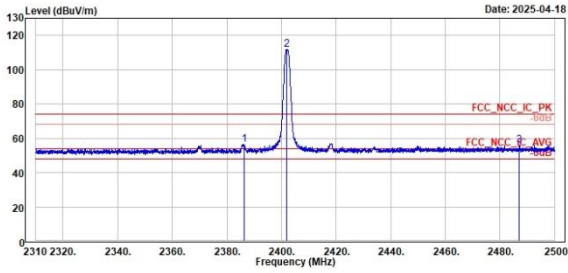
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



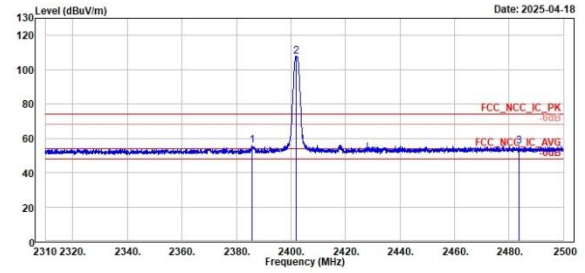
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Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.48	56.52	18.35	38.17	74.00	-17.48	352	167	Peak	Horizontal	
2 *	2402.00	111.48	73.17	38.31	74.00	37.48	352	167	Peak	Horizontal	
3	2487.18	55.87	17.27	38.60	74.00	-18.13	352	167	Peak	Horizontal	



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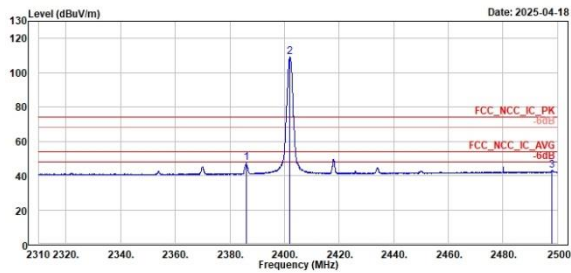
Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2385.67	55.61	17.44	38.17	74.00	-18.39	392	296	Peak	Vertical	
2 *	2402.00	107.64	69.33	38.31	74.00	33.64	392	296	Peak	Vertical	
3	2483.71	55.49	16.89	38.60	74.00	-18.51	392	296	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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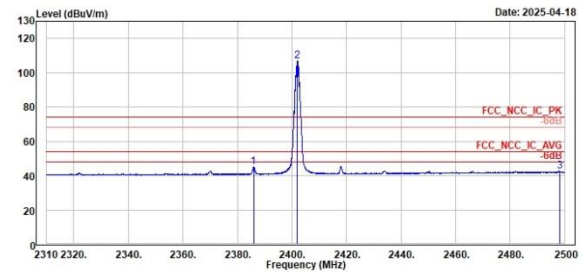


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2386.10	47.37	9.20	38.17	54.00	-6.63	352	167	Average	Horizontal		
2 *	2402.00	109.42	71.11	38.31	54.00	55.42	352	167	Average	Horizontal		
3	2498.01	42.98	4.36	38.62	54.00	-11.02	352	167	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	2385.91	45.04	6.87	38.17	54.00	-8.96	392	296	Average	Vertical		
2 *	2402.00	109.63	68.32	38.31	54.00	52.63	392	296	Average	Vertical		
3	2498.15	42.53	3.91	38.62	54.00	-11.47	392	296	Average	Vertical		

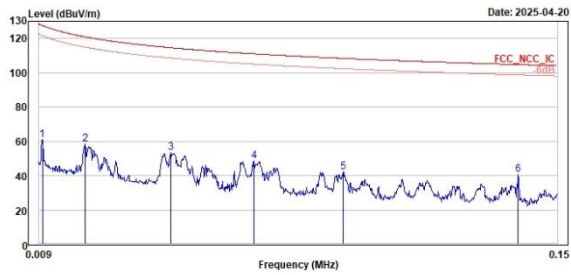
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Low Channel (Open) 9kHz~150kHz



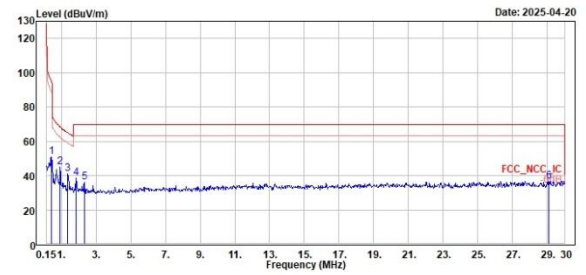
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	0.01	60.93	42.82	18.11	127.60	-66.67	100	382	Peak	Open		
2	0.02	58.34	38.75	19.59	120.92	-62.58	100	278	Peak	Open		
3	0.04	53.53	34.52	19.01	114.54	-61.01	100	256	Peak	Open		
4	0.07	48.30	29.93	18.37	111.01	-62.71	100	256	Peak	Open		
5	0.09	42.05	24.03	18.02	108.34	-66.29	100	272	Peak	Open		
6	0.14	40.68	22.41	18.27	104.72	-64.04	100	219	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	0.45	50.90	32.20	18.70	94.57	-43.67	100	187	Peak	Open		
2	0.93	44.99	26.14	18.85	68.27	-23.28	100	187	Peak	Open		
3	1.37	40.86	22.05	18.81	64.85	-23.99	100	187	Peak	Open		
4	1.85	38.44	19.61	18.83	69.50	-31.06	100	187	Peak	Open		
5	2.33	36.08	17.20	18.88	69.50	-33.42	100	187	Peak	Open		
6	29.07	36.62	13.38	23.24	69.50	-32.88	100	4	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

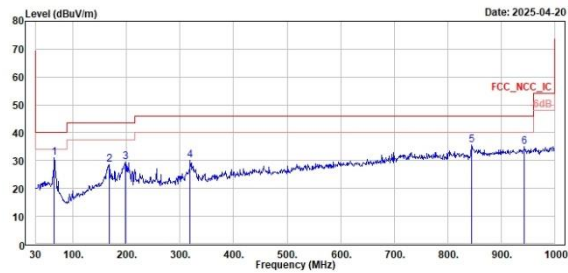
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



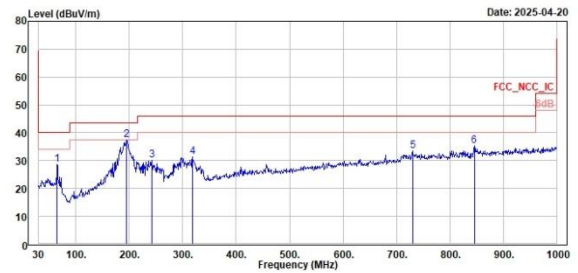
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	64.92	30.96	38.16	-7.20	40.00	-9.04	360	360	Peak	Horizontal		
2	167.74	28.68	34.56	-5.88	43.50	-14.82	100	210	Peak	Horizontal		
3	197.81	29.64	37.82	-8.18	43.50	-13.86	400	260	Peak	Horizontal		
4	319.06	30.14	34.87	-4.73	46.00	-15.86	100	118	Peak	Horizontal		
5	844.80	35.66	31.59	4.07	46.00	-10.34	200	184	Peak	Horizontal		
6	943.74	34.84	29.17	5.67	46.00	-11.16	200	131	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	28.59	35.79	-7.20	40.00	-11.41	300	104	Peak	Vertical		
2	194.90	37.28	43.39	-6.11	43.50	-6.22	100	222	Peak	Vertical		
3	241.46	30.08	36.83	-6.75	46.00	-15.92	200	218	Peak	Vertical		
4	318.09	31.26	36.03	-4.77	46.00	-14.74	300	3	Peak	Vertical		
5	730.34	33.51	30.72	2.79	46.00	-12.49	300	69	Peak	Vertical		
6	845.77	35.21	31.12	4.09	46.00	-10.79	400	206	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

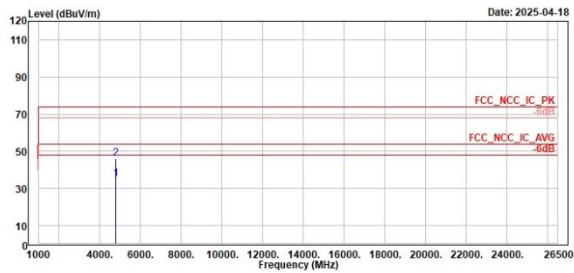
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



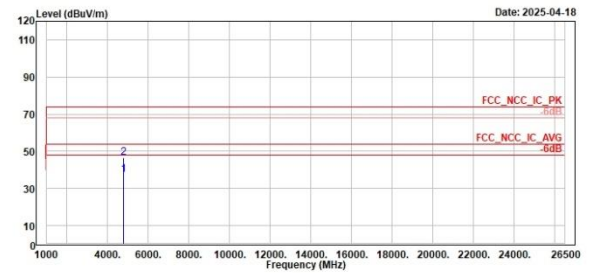
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	35.13	44.21	-9.08	54.00	-18.87	100	357	Average	Horizontal	
2	4894.00	45.87	54.95	-9.08	74.00	-28.13	100	357	Peak	Horizontal	



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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	4894.00	37.58	46.66	-9.08	54.00	-16.42	100	293	Average	Vertical	
2	4894.00	46.45	55.53	-9.08	74.00	-27.55	100	293	Peak	Vertical	