

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Primary Source (ECC)

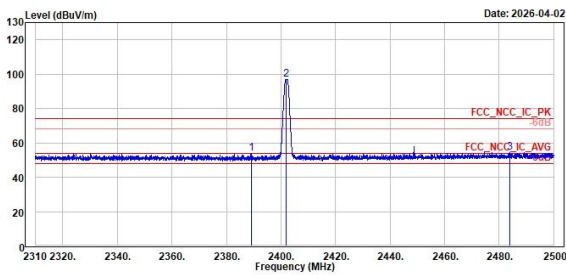
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



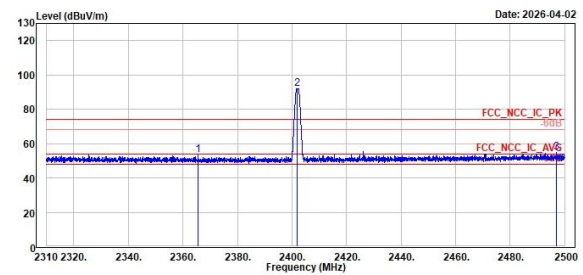
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.04	54.05	17.51	36.54	74.00	-19.95	282	337	Peak	Horizontal	
2 *	2402.00	96.93	60.39	36.54	74.00	22.93	282	337	Peak	Horizontal	
3	2483.81	54.60	17.40	37.20	74.00	-19.40	282	337	Peak	Horizontal	



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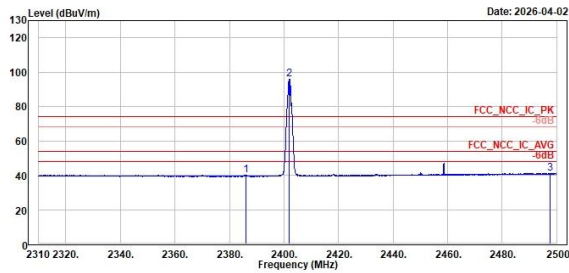
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2365.44	53.43	16.81	36.62	74.00	-20.57	310	87	Peak	Vertical	
2 *	2402.00	92.07	55.53	36.54	74.00	18.07	310	87	Peak	Vertical	
3	2496.92	54.68	17.39	37.29	74.00	-19.32	310	87	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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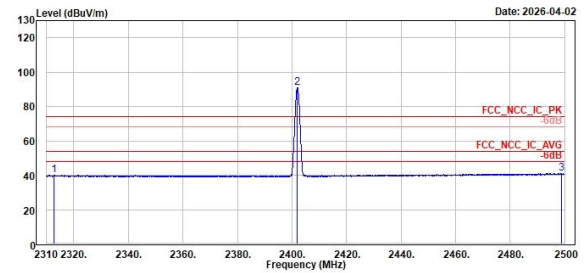


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.92	40.18	3.62	36.56	54.00	-13.82	282	337	Average	Horizontal		
2 *	2402.00	95.86	59.32	36.54	54.00	41.86	282	337	Average	Horizontal		
3	2497.68	41.14	3.84	37.30	54.00	-12.86	282	337	Average	Horizontal		

Low Channel (Vertical) Average



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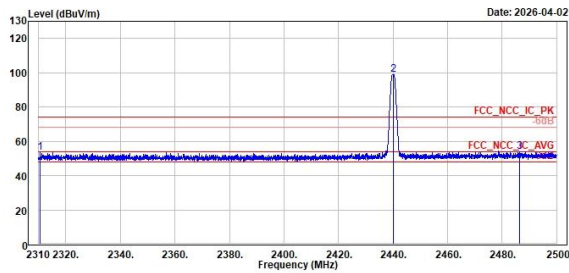
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.62	39.95	3.32	36.63	54.00	-14.05	310	87	Average	Vertical		
2 *	2402.00	91.00	54.46	36.54	54.00	37.00	310	87	Average	Vertical		
3	2498.82	40.97	3.67	37.30	54.00	-13.03	310	87	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Peak



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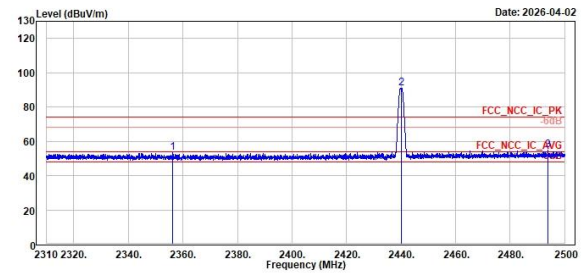


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2310.61	53.47	16.85	36.62	74.00	-20.53	250	344	Peak	HORIZONTAL		
2 *	2440.00	99.00	62.13	36.87	74.00	25.00	250	344	Peak	HORIZONTAL		
3	2486.28	54.05	16.83	37.22	74.00	-19.95	250	344	Peak	HORIZONTAL		

Middle Channel (Vertical) Peak



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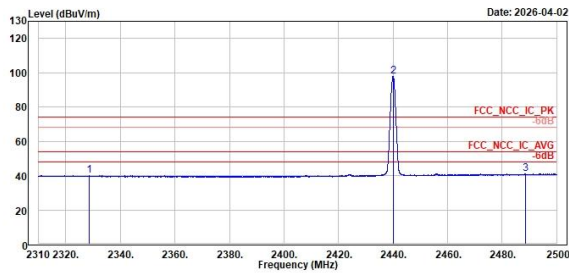
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2356.28	53.54	16.90	36.64	74.00	-20.46	298	267	Peak	Vertical		
2 *	2440.00	99.90	54.03	36.87	74.00	16.90	298	267	Peak	Vertical		
3	2493.77	55.00	17.73	37.27	74.00	-19.00	298	267	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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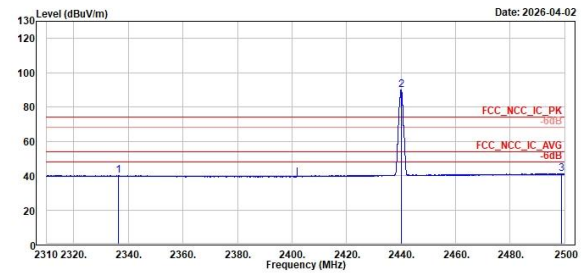


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2328.70	39.92	3.28	36.64	54.00	-14.08	250	344	Average	HORIZONTAL		
2 *	2440.00	97.99	61.12	36.87	54.00	43.99	250	344	Average	HORIZONTAL		
3	2488.45	40.97	3.74	37.23	54.00	-13.03	250	344	Average	HORIZONTAL		

Middle Channel (Vertical) Average



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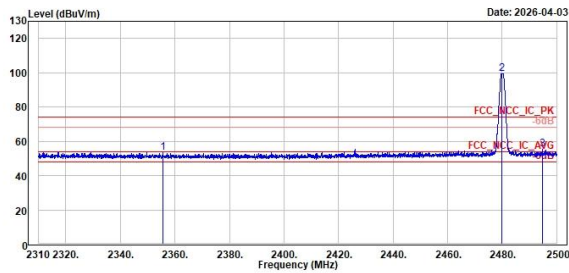
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2336.41	39.93	3.28	36.65	54.00	-14.07	298	267	Average	Vertical		
2 *	2440.00	89.88	53.01	36.87	54.00	35.88	298	267	Average	Vertical		
3	2498.71	41.01	3.71	37.30	54.00	-12.99	298	267	Average	Vertical		

BLE_1M

High Channel (Horizontal) Peak



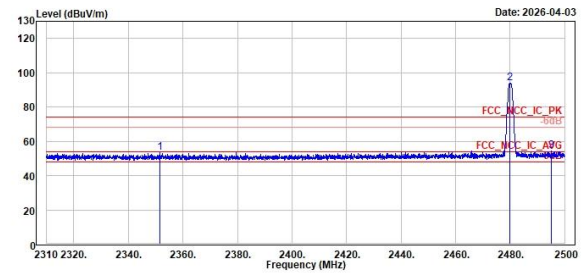
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2355.70	53.42	16.77	36.65	74.00	-20.58	266	341	Peak	Horizontal		
2 *	2480.00	99.38	62.21	37.17	74.00	25.38	266	341	Peak	Horizontal		
3	2494.73	55.17	17.89	37.28	74.00	-18.83	266	341	Peak	Horizontal		



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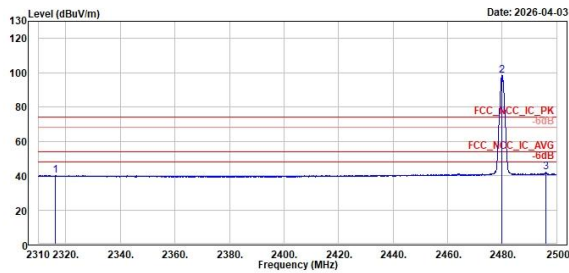
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1	2351.52	53.29	16.63	36.66	74.00	-20.71	400	290	Peak	Vertical		
2 *	2480.00	93.72	56.55	37.17	74.00	19.72	400	290	Peak	Vertical		
3	2495.20	54.32	17.04	37.28	74.00	-19.68	400	290	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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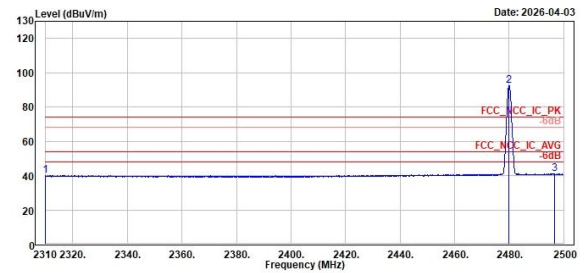


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
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1	2316.18	39.93	3.30	36.63	54.00	-14.07	266	341	Average	Horizontal		
2 *	2480.00	98.40	61.23	37.17	54.00	44.40	266	341	Average	Horizontal		
3	2495.96	41.81	4.52	37.29	54.00	-12.19	266	341	Average	Horizontal		

High Channel (Vertical) Average



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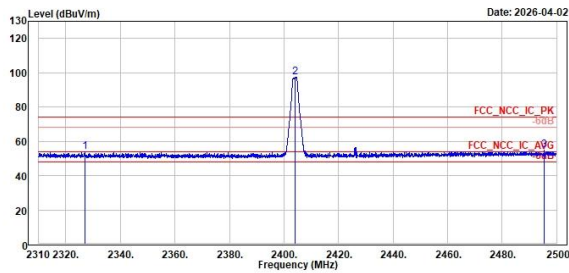
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1	2310.05	40.02	3.40	36.62	54.00	-13.98	400	290	Average	Vertical		
2 *	2480.00	92.66	55.49	37.17	54.00	38.66	400	290	Average	Vertical		
3	2496.58	41.20	3.91	37.29	54.00	-12.80	400	290	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



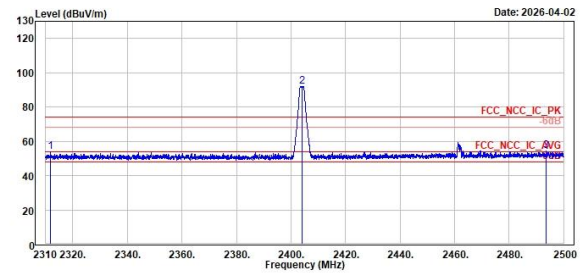
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2327.18	53.77	17.13	36.64	74.00	-20.23	284	348	Peak	Horizontal		
2 *	2404.00	97.23	60.68	36.55	74.00	23.23	284	348	Peak	Horizontal		
3	2495.49	54.90	17.62	37.28	74.00	-19.10	284	340	Peak	Horizontal		



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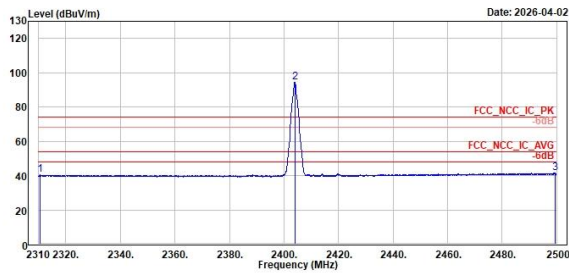
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1	2311.76	53.82	17.20	36.62	74.00	-20.18	304	292	Peak	Vertical		
2 *	2404.00	91.94	55.39	36.55	74.00	17.94	304	292	Peak	Vertical		
3	2493.49	54.49	17.22	37.27	74.00	-19.51	304	292	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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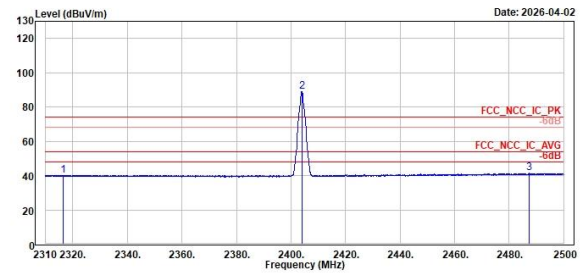


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
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1	2310.67	40.33	3.71	36.62	54.00	-13.67	284	340	Average	Horizontal		
2 *	2404.00	94.38	57.63	36.55	54.00	40.38	284	340	Average	Horizontal		
3	2499.38	41.42	4.11	37.31	54.00	-12.58	284	340	Average	Horizontal		

Low Channel (Vertical) Average



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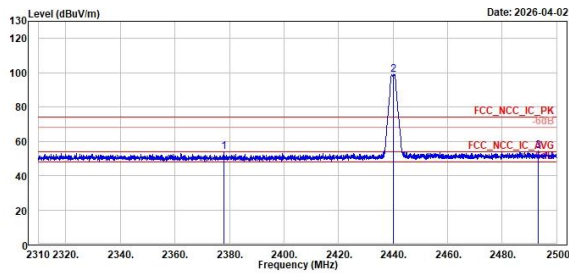
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1	2310.60	40.24	3.61	36.63	54.00	-13.76	304	292	Average	Vertical		
2 *	2404.00	89.13	52.58	36.55	54.00	35.13	304	292	Average	Vertical		
3	2487.46	41.28	4.06	37.22	54.00	-12.72	304	292	Average	Vertical		

BLE_2M

Middle Channel (Horizontal) Peak



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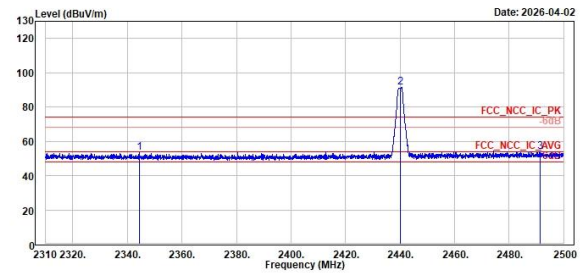


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.93	53.79	17.21	36.58	74.00	-20.21	394	343	Peak	Horizontal		
2 *	2440.00	98.72	61.85	36.87	74.00	24.72	394	343	Peak	Horizontal		
3	2493.16	54.21	16.94	37.27	74.00	-19.79	384	343	Peak	Horizontal		

Middle Channel (Vertical) Peak



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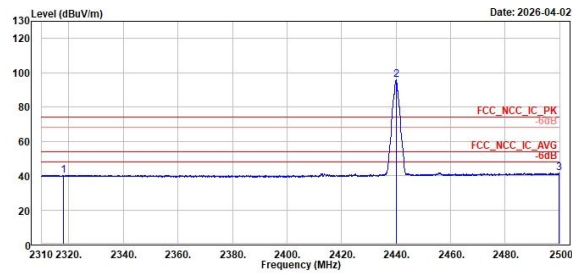
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2344.44	53.61	16.95	36.66	74.00	-20.39	299	267	Peak	Vertical		
2 *	2440.00	91.24	54.37	36.87	74.00	17.24	299	267	Peak	Vertical		
3	2491.36	53.92	16.66	37.26	74.00	-20.08	299	267	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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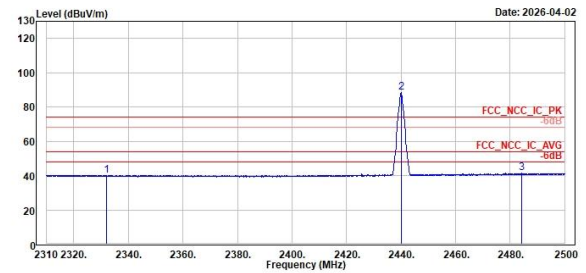


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2318.08	40.27	3.64	36.63	54.00	-13.73	394	343	Average	Horizontal		
2 *	2440.00	95.89	59.02	36.87	54.00	41.89	394	343	Average	Horizontal		
3	2499.86	41.31	4.00	37.31	54.00	-12.69	384	343	Average	Horizontal		

Middle Channel (Vertical) Average



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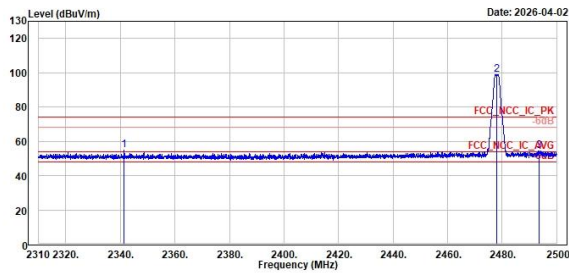
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2332.09	40.25	3.60	36.65	54.00	-13.75	299	267	Average	Vertical		
2 *	2440.00	88.33	51.46	36.87	54.00	34.33	299	267	Average	Vertical		
3	2484.18	41.36	4.15	37.21	54.00	-12.64	299	267	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak



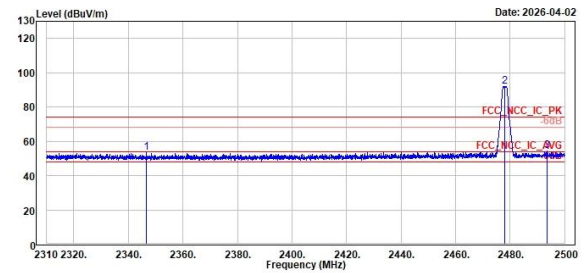
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2341.45	54.69	18.04	36.65	74.00	-19.31	222	312	Peak	Horizontal		
2 *	2478.00	98.86	61.70	37.16	74.00	24.86	222	312	Peak	Horizontal		
3	2493.64	54.37	17.10	37.27	74.00	-19.63	222	312	Peak	Horizontal		



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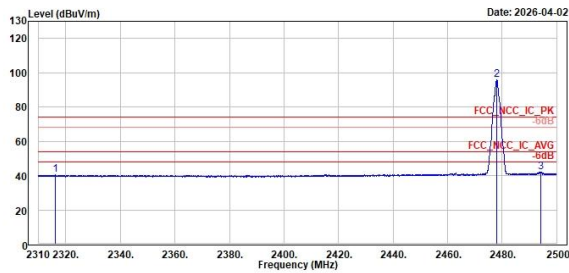
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2346.58	53.36	16.70	36.66	74.00	-20.64	299	127	Peak	Vertical		
2 *	2478.00	92.10	54.94	37.16	74.00	18.10	299	127	Peak	Vertical		
3	2493.45	54.52	17.25	37.27	74.00	-19.48	299	127	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



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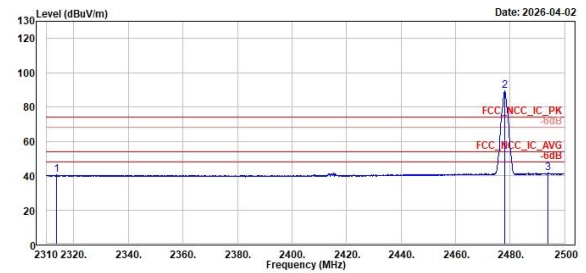


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2316.00	40.30	3.67	36.63	54.00	-13.70	222	312	Average	Horizontal		
2 *	2478.00	96.04	58.88	37.16	54.00	42.04	222	312	Average	Horizontal		
3	2494.21	42.25	4.97	37.28	54.00	-11.75	222	312	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2313.52	40.34	3.71	36.63	54.00	-13.66	299	127	Average	Vertical		
2 *	2478.00	89.28	52.12	37.16	54.00	35.28	299	127	Average	Vertical		
3	2493.73	41.51	4.24	37.27	54.00	-12.49	299	127	Average	Vertical		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

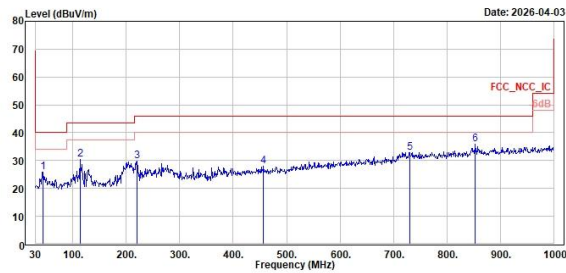
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



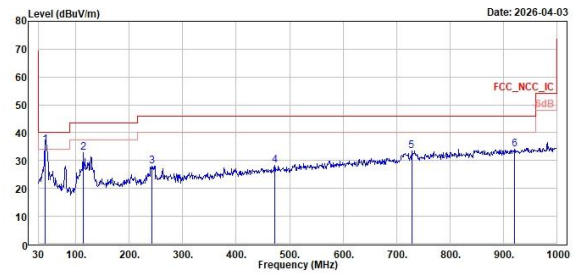
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	44.55	25.98	32.09	-6.19	48.00	-14.10	280	298	Peak	Horizontal		
2	113.42	30.35	39.84	-9.49	43.50	-13.15	280	165	Peak	Horizontal		
3	228.12	29.68	38.03	-8.35	46.00	-16.32	100	258	Peak	Horizontal		
4	456.80	27.89	29.95	-2.06	46.00	-18.11	161	360	Peak	Horizontal		
5	730.34	32.92	38.22	-2.70	46.00	-13.08	100	150	Peak	Horizontal		
6	853.53	36.84	31.76	4.28	46.00	-9.96	280	70	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	41.64	35.46	41.84	-6.38	48.00	-4.54	180	292	QP	Vertical		
2	113.42	32.95	42.44	-9.49	43.50	-10.55	100	189	Peak	Vertical		
3	242.43	28.10	35.84	-6.94	46.00	-17.90	100	339	Peak	Vertical		
4	472.32	28.15	38.28	-2.13	46.00	-17.85	100	156	Peak	Vertical		
5	728.40	33.56	38.89	-2.67	46.00	-12.44	199	360	Peak	Vertical		
6	928.46	34.06	28.98	5.08	46.00	-11.94	280	73	Peak	Vertical		

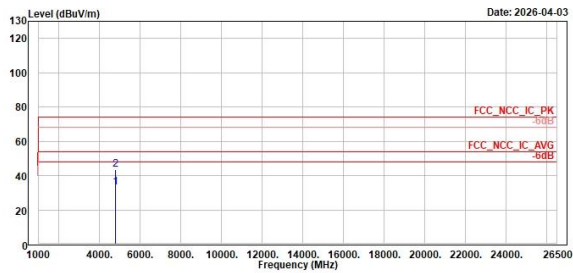
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

Low Channel (Horizontal)



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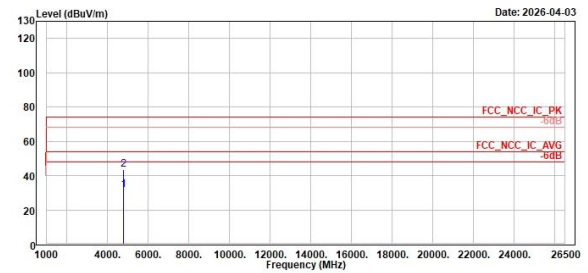


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	33.29	44.05	-10.85	54.00	-20.80	180	62	Average	Horizontal		
2	4894.00	43.69	54.54	-10.85	74.00	-30.31	180	62	Peak	Horizontal		

Low Channel (Vertical)



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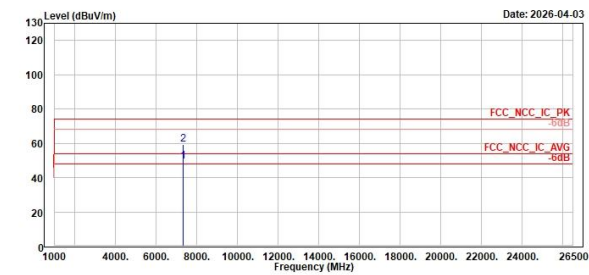
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	31.79	42.64	-10.85	54.00	-22.21	300	258	Average	Vertical		
2	4894.00	43.71	54.56	-10.85	74.00	-30.29	300	258	Peak	Vertical		

BLE_1M

Middle Channel (Horizontal)



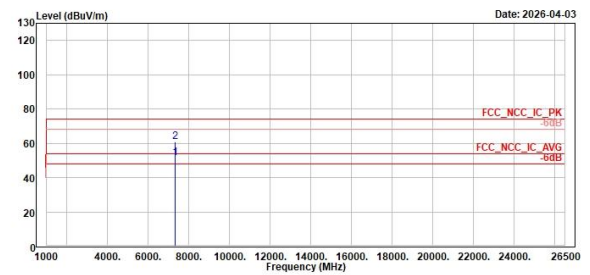
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	49.57	58.28	-8.71	54.00	-4.43	117	58	Average	Horizontal		
2	7320.00	59.32	68.03	-8.71	74.00	-14.68	117	58	Peak	Horizontal		



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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	7320.00	51.27	59.98	-8.71	54.00	-2.73	336	256	Average	Vertical		
2	7320.00	60.92	69.63	-8.71	74.00	-13.08	336	256	Peak	Vertical		

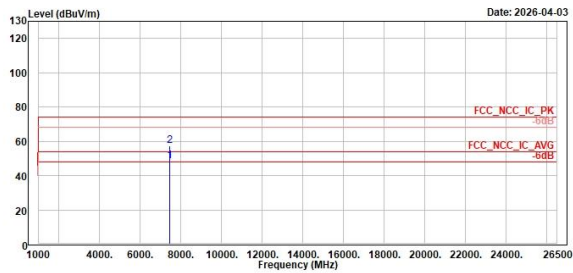
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



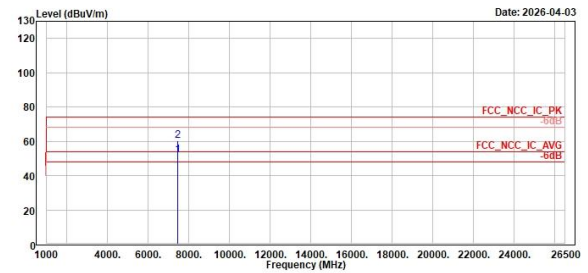
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	48.33	57.04	-8.71	54.00	-5.67	180	44	Average	Horizontal		
2	7440.00	57.39	66.10	-8.71	74.00	-16.61	180	44	Peak	Horizontal		



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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	7440.00	51.79	60.41	-8.71	54.00	-2.30	220	299	Average	Vertical		
2	7440.00	60.38	69.09	-8.71	74.00	-13.62	220	299	Peak	Vertical		

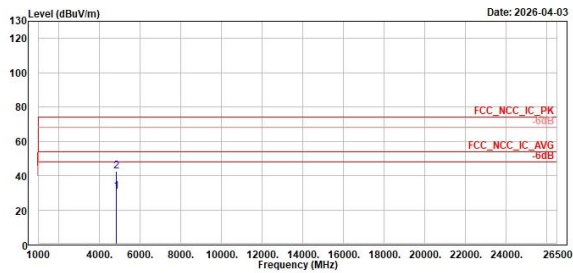
BLE_2M

Low Channel (Horizontal)

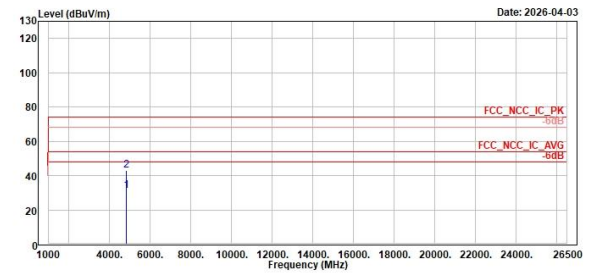
Low Channel (Vertical)



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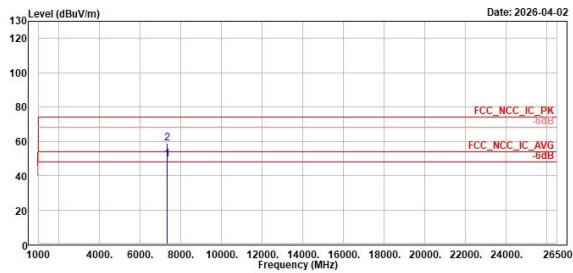


BLE_2M

Middle Channel (Horizontal)



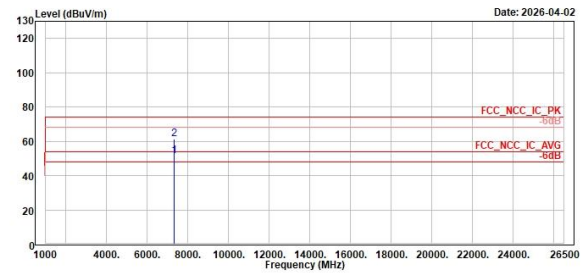
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	49.41	58.12	-8.71	54.00	-4.59	180	58	Average	Horizontal		
2	7320.00	58.98	67.69	-8.71	74.00	-15.02	180	58	Peak	Horizontal		



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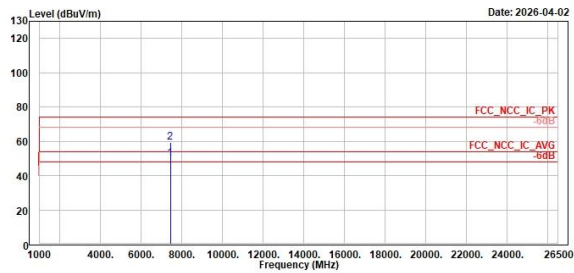
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	51.24	59.95	-8.71	54.00	-2.76	260	256	Average	Vertical		
2	7320.00	61.48	70.19	-8.71	74.00	-12.52	260	256	Peak	Vertical		

BLE_2M

High Channel (Horizontal)



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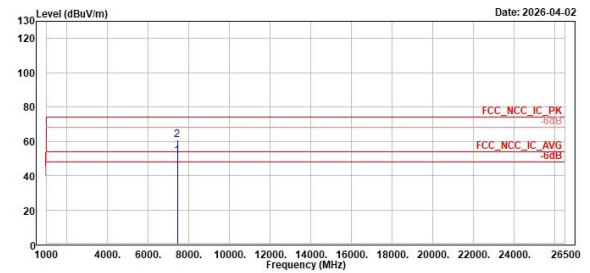


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1 7434.00	49.70	58.40	-8.70	54.00	-4.30	111	61	Average	Horizontal		
2 7434.00	59.10	67.80	-8.70	74.00	-14.90	111	61	Peak	Horizontal		

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	cm	deg			
1 7434.00	51.45	60.15	-8.70	54.00	-2.55	229	299	Average	Vertical		
2 7434.00	60.81	69.51	-8.70	74.00	-13.19	229	299	Peak	Vertical		

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

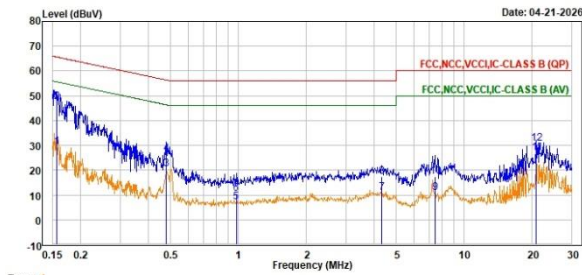
Worst Band

(Line)

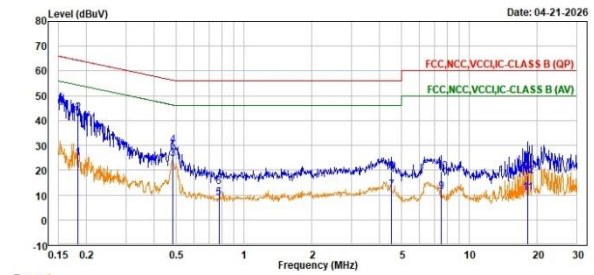
(Neutral)



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Secondary Source (ECC)
Band Edges, 2.31GHz ~ 2.5GHz

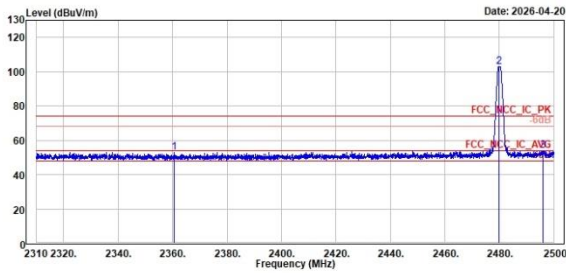
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



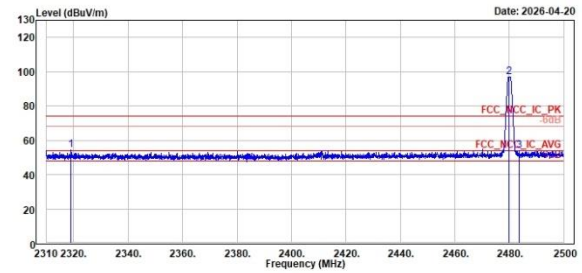
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2368.68	53.12	16.49	36.63	74.00	-20.88		197	330	Peak	Horizontal	
2 *	2480.00	100.02	65.85	37.17	74.00	29.02		197	330	Peak	Horizontal	
3	2496.15	53.87	16.58	37.29	74.00	-20.13		197	330	Peak	Horizontal	



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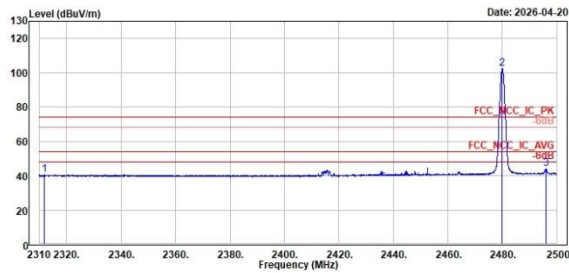
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2318.98	54.21	17.58	36.63	74.00	-19.79		285	294	Peak	Vertical	
2 *	2480.00	96.88	59.71	37.17	74.00	22.88		285	294	Peak	Vertical	
3	2483.61	53.83	16.63	37.20	74.00	-20.17		285	294	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



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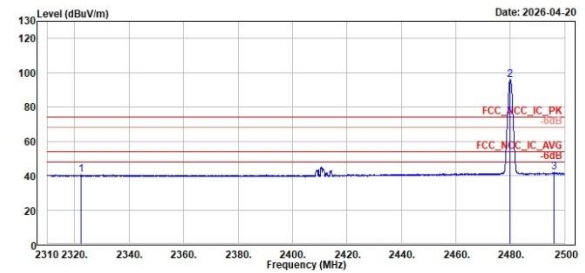


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2311.01	40.41	3.79	36.62	54.00	-13.59	197	330	Average	Horizontal		
2 *	2480.00	102.11	64.94	37.17	54.00	48.11	197	330	Average	Horizontal		
3	2496.01	44.17	6.88	37.29	54.00	-9.83	197	330	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2322.45	40.49	3.85	36.64	54.00	-13.51	285	294	Average	Vertical		
2 *	2480.00	95.96	58.79	37.17	54.00	41.96	285	294	Average	Vertical		
3	2495.96	41.88	4.59	37.29	54.00	-12.12	285	294	Average	Vertical		

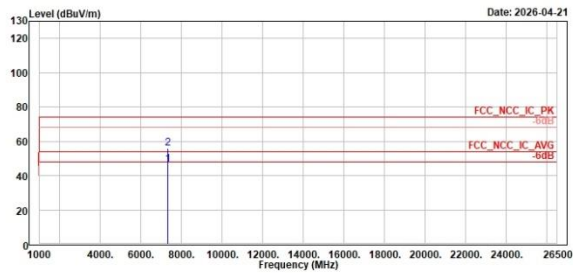
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

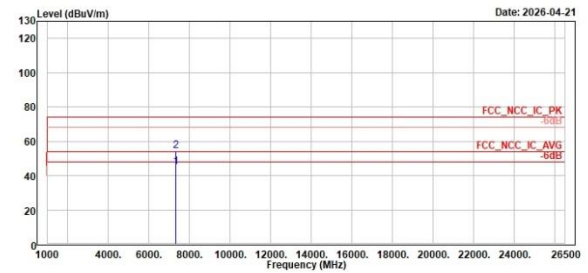
Middle Channel (Horizontal)



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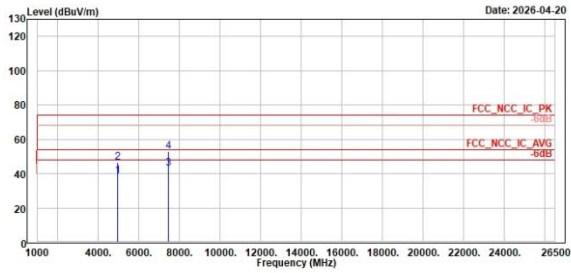
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



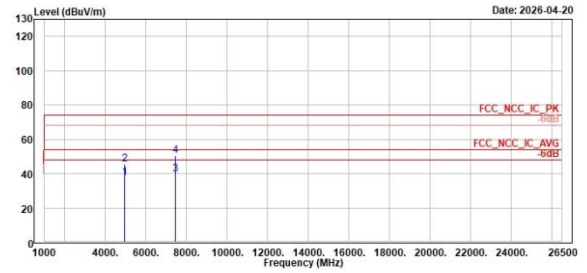
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	38.74	49.26	-10.52	54.00	-15.26	116	23	Average	Horizontal		
2	4960.00	46.47	56.99	-10.52	74.00	-27.53	116	23	Peak	Horizontal		
3	7440.00	42.86	51.57	-8.71	54.00	-11.14	221	299	Average	Horizontal		
4	7440.00	52.78	61.49	-8.71	74.00	-21.22	221	299	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	4960.00	37.74	48.26	-10.52	54.00	-16.26	336	349	Average	Vertical		
2	4960.00	45.40	55.92	-10.52	74.00	-28.60	336	349	Peak	Vertical		
3	7440.00	39.71	48.42	-8.71	54.00	-14.29	269	258	Average	Vertical		
4	7440.00	50.66	59.37	-8.71	74.00	-23.34	269	258	Peak	Vertical		