

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test

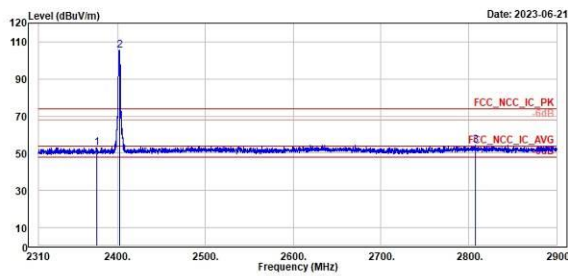
Band Edges, 2.31GHz ~ 2.9GHz

BLE_1M

Low Channel (Horizontal) Peak



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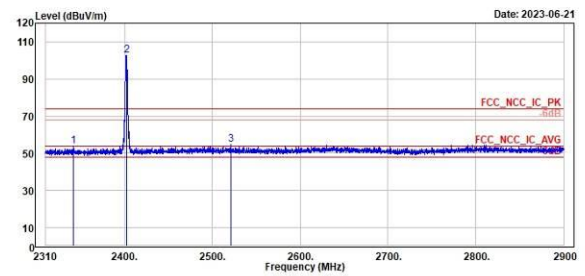


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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.67	53.03	15.84	37.19	74.00	-20.97	325	294	Peak	Horizontal	
2 *	2402.00	105.36	68.19	37.17	74.00	31.36	325	294	Peak	Horizontal	
3	2887.25	54.47	16.73	37.74	74.00	-19.53	325	294	Peak	Horizontal	

Low Channel (Vertical) Peak



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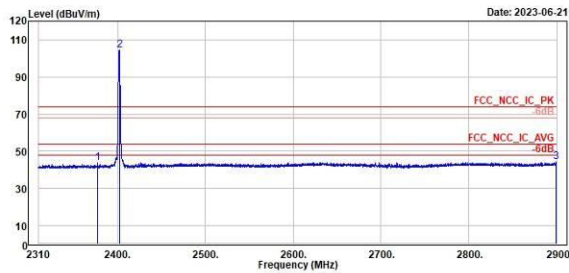
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2341.51	53.80	16.67	37.13	74.00	-20.20	135	204	Peak	Vertical	
2 *	2402.00	102.84	65.67	37.17	74.00	28.84	135	204	Peak	Vertical	
3	2528.63	54.72	17.22	37.50	74.00	-19.28	135	204	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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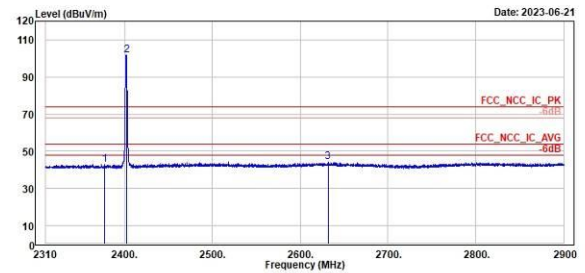


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.14	43.87	6.68	37.19	54.00	-10.13	325	294	Average	Horizontal		
2 *	2402.00	104.36	67.19	37.17	54.00	50.36	325	294	Average	Horizontal		
3	2899.29	44.04	6.11	37.93	54.00	-9.96	325	294	Average	Horizontal		

Low Channel (Vertical) Average



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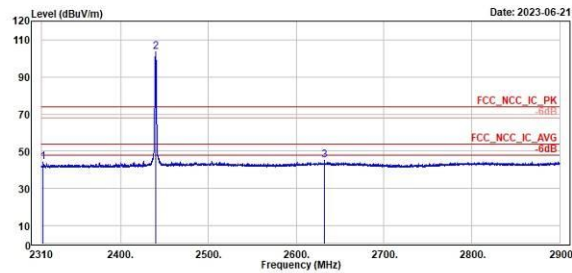
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.50	43.10	5.91	37.19	54.00	-10.90	135	204	Average	Vertical		
2 *	2402.00	101.87	64.70	37.17	54.00	47.87	135	204	Average	Vertical		
3	2631.55	44.19	6.57	37.62	54.00	-9.81	135	204	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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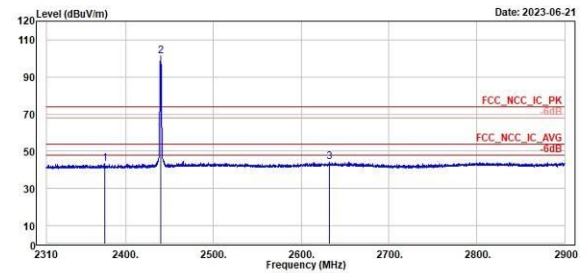


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2312.01	44.05	7.18	36.87	54.00	-9.95	100	293	Average	Horizontal		
2 *	2440.00	103.65	66.21	37.44	54.00	49.65	100	293	Average	Horizontal		
3	2631.79	45.28	7.66	37.62	54.00	-8.72	100	293	Average	Horizontal		

Middle Channel (Vertical) Average



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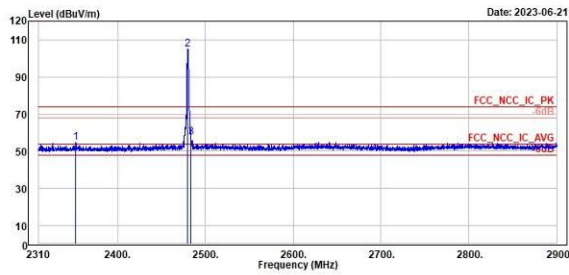
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1	2376.20	43.25	6.06	37.19	54.00	-10.75	114	210	Average	Vertical		
2 *	2440.00	101.50	64.06	37.44	54.00	47.50	114	210	Average	Vertical		
3	2631.90	44.22	6.60	37.62	54.00	-9.78	114	210	Average	Vertical		

BLE_1M

High Channel (Horizontal) Peak



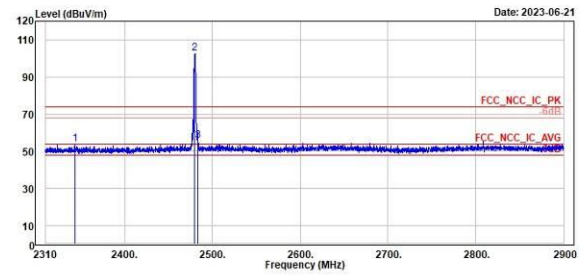
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2352.24	54.57	17.36	37.21	74.00	-19.43	114	293	Peak	Horizontal	
2 *	2480.00	104.75	67.21	37.54	74.00	30.75	114	293	Peak	Horizontal	
3	2483.46	57.67	20.13	37.54	74.00	-16.33	114	293	Peak	Horizontal	



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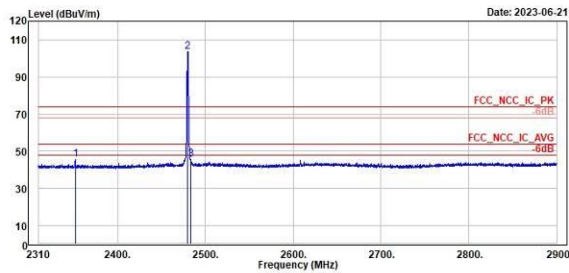
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1	2343.28	53.68	16.53	37.15	74.00	-20.32	130	206	Peak	Vertical	
2 *	2480.00	102.47	64.93	37.54	74.00	28.47	130	206	Peak	Vertical	
3	2483.58	55.81	18.27	37.54	74.00	-18.19	130	206	Peak	Vertical	

BLE_1M

High Channel (Horizontal) Average



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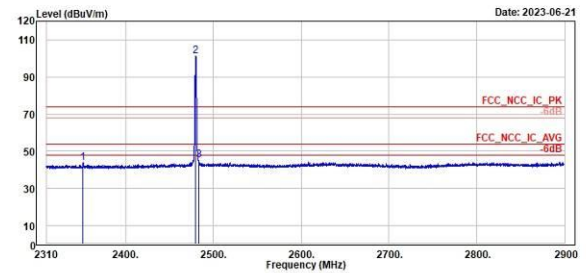


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2352.01	45.74	8.53	37.21	54.00	-8.26	114	293	Average	Horizontal		
2 *	2480.00	103.78	66.24	37.54	54.00	49.78	114	293	Average	Horizontal		
3	2483.58	45.52	7.98	37.54	54.00	-8.48	114	293	Average	Horizontal		

High Channel (Vertical) Average



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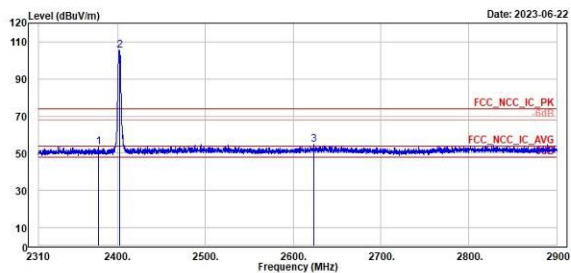
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1	2351.65	43.90	6.69	37.21	54.00	-10.10	130	206	Average	Vertical		
2 *	2480.00	101.46	63.92	37.54	54.00	47.46	130	206	Average	Vertical		
3	2483.58	44.99	7.45	37.54	54.00	-9.01	130	206	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



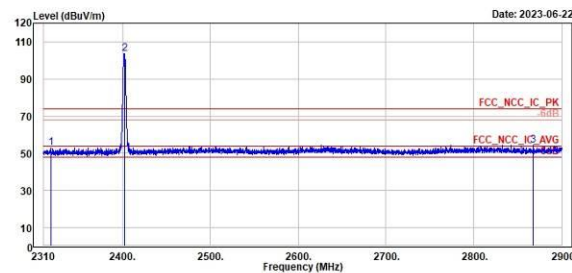
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2378.20	53.55	16.37	37.18	74.00	-20.45	100	295	Peak	Horizontal		
2 *	2402.00	105.30	68.13	37.17	74.00	31.30	100	295	Peak	Horizontal		
3	2623.53	54.94	17.32	37.62	74.00	-19.06	100	295	Peak	Horizontal		



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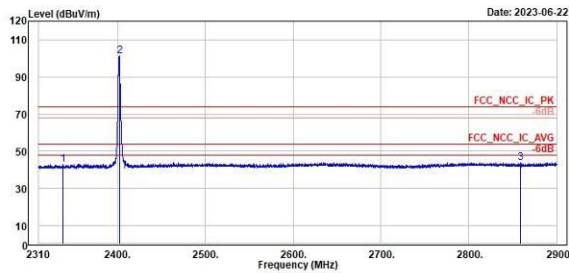
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1	2318.14	53.09	16.16	36.93	74.00	-20.91	139	205	Peak	Vertical		
2 *	2402.00	103.78	66.53	37.17	74.00	29.78	139	205	Peak	Vertical		
3	2867.55	54.51	16.67	37.84	74.00	-19.49	139	205	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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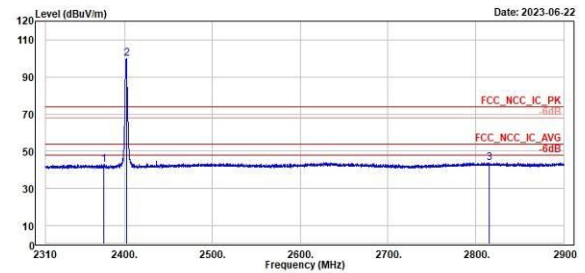


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2337.97	42.90	5.80	37.10	54.00	-11.10	100	295	Average	Horizontal		
2 *	2402.00	101.26	64.89	37.17	54.00	47.26	100	295	Average	Horizontal		
3	2858.58	43.99	6.18	37.81	54.00	-10.01	100	295	Average	Horizontal		

Low Channel (Vertical) Average



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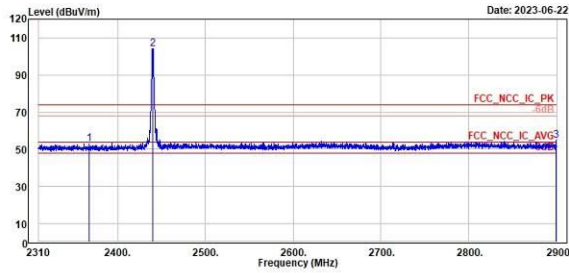
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.55	43.07	5.88	37.19	54.00	-10.93	139	205	Average	Vertical		
2 *	2402.00	99.82	62.65	37.17	54.00	45.82	139	205	Average	Vertical		
3	2815.16	44.01	6.26	37.75	54.00	-9.99	139	205	Average	Vertical		

BLE_2M

Middle Channel (Horizontal) Peak



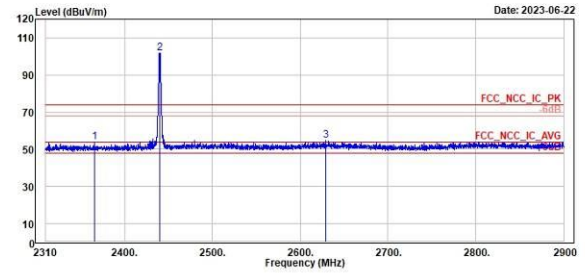
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2367.70	53.12	15.93	37.19	74.00	-20.88	100	295	Peak	Horizontal		
2 *	2440.00	104.20	66.76	37.44	74.00	30.20	100	295	Peak	Horizontal		
3	2899.29	54.89	16.96	37.93	74.00	-19.11	100	295	Peak	Horizontal		



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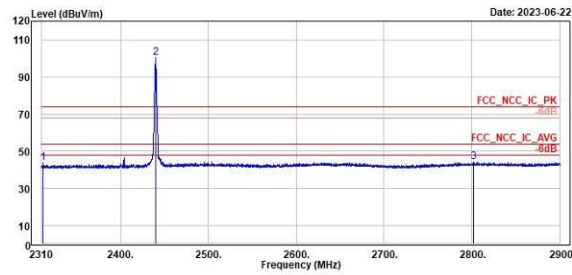
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1	2365.93	53.92	16.72	37.20	74.00	-20.08	100	202	Peak	Vertical		
2 *	2440.00	101.74	64.30	37.44	74.00	27.74	100	202	Peak	Vertical		
3	2628.84	54.69	17.07	37.62	74.00	-19.31	100	202	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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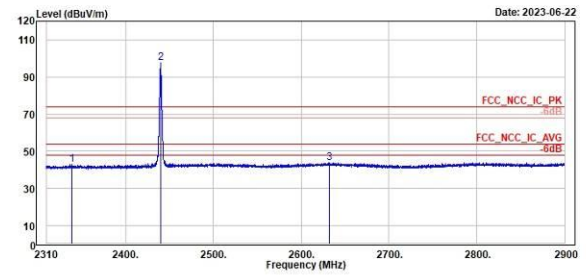


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2312.12	43.83	6.96	36.87	54.00	-10.17	100	295	Average	Horizontal	
2 *	2440.00	100.28	62.84	37.44	54.00	46.28	100	295	Average	Horizontal	
3	2801.82	44.27	6.53	37.74	54.00	-9.73	100	295	Average	Horizontal	

Middle Channel (Vertical) Average



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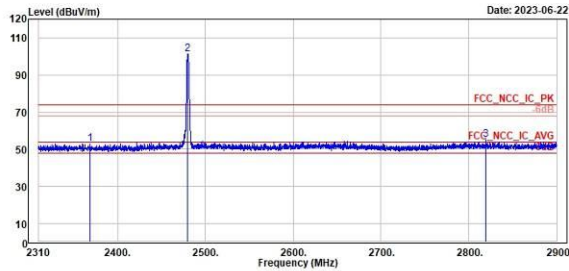
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2338.67	42.75	5.64	37.11	54.00	-11.25	100	202	Average	Vertical	
2 *	2440.00	97.78	60.34	37.44	54.00	43.78	100	202	Average	Vertical	
3	2632.14	43.98	6.36	37.62	54.00	-10.02	100	202	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



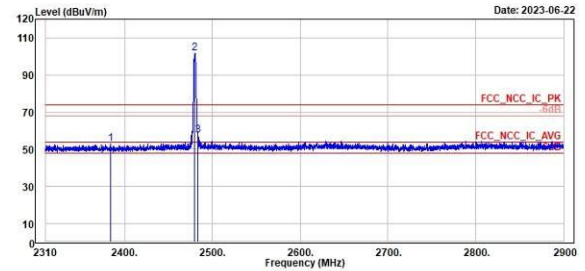
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2368.65	53.13	15.94	37.19	74.00	-20.87	100	154	Peak	Horizontal	
2 *	2480.00	101.14	63.60	37.54	74.00	27.14	100	154	Peak	Horizontal	
3	2819.52	55.07	17.32	37.75	74.00	-18.93	100	154	Peak	Horizontal	



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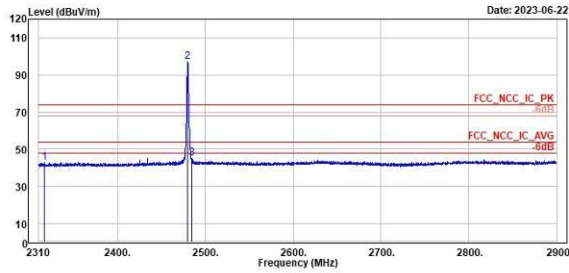
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.87	52.81	15.64	37.17	74.00	-21.19	100	205	Peak	Vertical	
2 *	2480.00	101.58	64.04	37.54	74.00	27.58	100	205	Peak	Vertical	
3	2483.58	57.65	20.11	37.54	74.00	-16.35	100	205	Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



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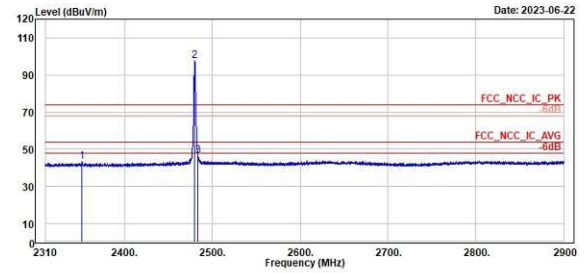


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2316.49	43.10	6.19	36.91	54.00	-10.90	100	154	Average	Horizontal		
2 *	2480.00	97.10	59.64	37.54	54.00	43.10	100	154	Average	Horizontal		
3	2484.05	45.29	7.75	37.54	54.00	-8.71	100	154	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	2351.65	43.43	6.22	37.21	54.00	-10.57	100	205	Average	Vertical		
2 *	2480.00	97.53	59.99	37.54	54.00	43.53	100	205	Average	Vertical		
3	2483.81	46.34	8.80	37.54	54.00	-7.66	100	205	Average	Vertical		

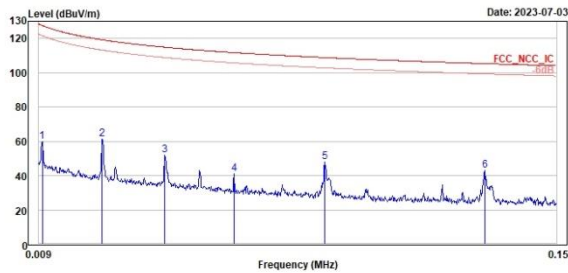
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_1M

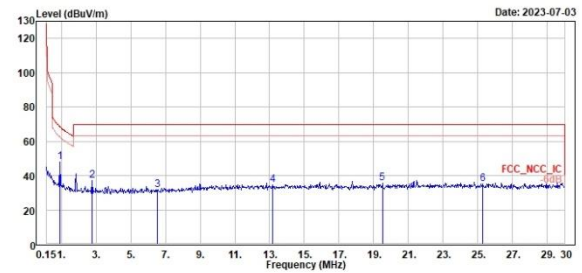
Middle Channel (Open) 9kHz~150kHz



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Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

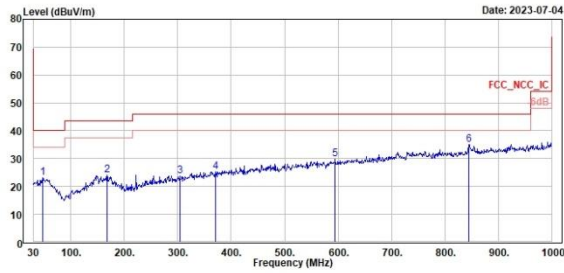
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



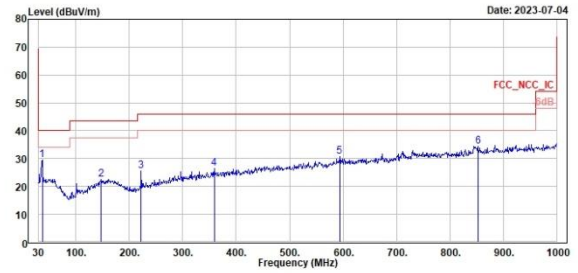
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	46.49	23.13	29.00	-5.87	40.00	-16.87	200	360	Peak	Horizontal		
2	167.74	24.07	29.79	-5.72	43.50	-19.43	200	85	Peak	Horizontal		
3	303.54	23.86	28.48	-4.62	46.00	-22.14	300	266	Peak	Horizontal		
4	371.44	25.24	28.61	-3.37	46.00	-20.76	200	215	Peak	Horizontal		
5	594.54	29.86	29.50	0.36	46.00	-16.14	300	128	Peak	Horizontal		
6	844.80	35.06	30.94	4.12	46.00	-10.94	256	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	36.79	29.54	36.00	-7.26	40.00	-10.46	300	164	Peak	Vertical		
2	147.37	22.63	28.88	-6.25	43.50	-20.87	200	211	Peak	Vertical		
3	222.06	25.47	33.55	-8.08	46.00	-20.53	100	136	Peak	Vertical		
4	358.83	26.50	30.09	-3.59	46.00	-19.50	296	360	Peak	Vertical		
5	593.57	30.66	30.32	0.34	46.00	-15.34	100	284	Peak	Vertical		
6	852.56	34.46	30.41	4.05	46.00	-11.54	200	358	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

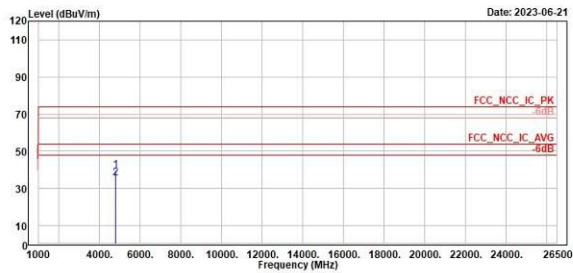
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



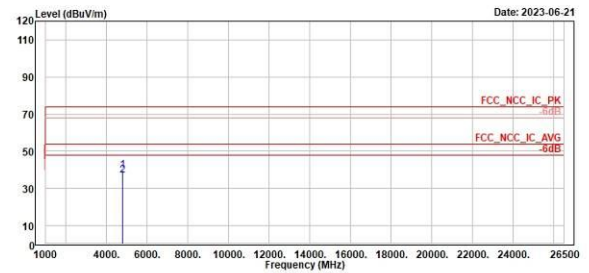
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	39.68	48.71	-9.03	74.00	-34.32	400	236	Peak	Horizontal		
2	4804.00	35.56	44.59	-9.03	54.00	-18.44	400	236	Average	Horizontal		



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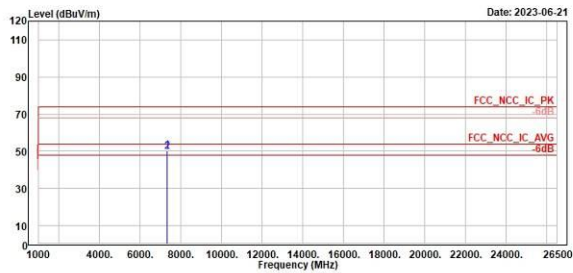
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	39.61	48.64	-9.03	74.00	-34.39	300	332	Peak	Vertical		
2	4804.00	36.95	45.98	-9.03	54.00	-17.05	300	332	Average	Vertical		

BLE_1M

Middle Channel (Horizontal)



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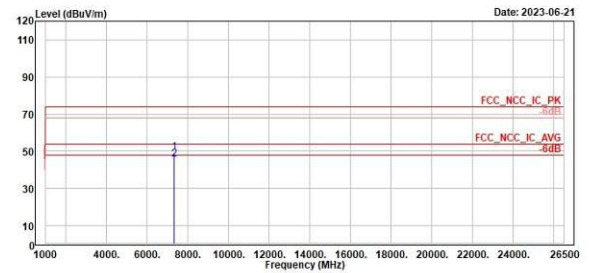


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 7320.00	49.97	57.05	-7.08	74.00	-24.03	300	290	Peak	Horizontal		
2 7320.00	49.78	56.86	-7.08	54.00	-4.22	300	290	Average	Horizontal		

Middle Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 7320.00	49.48	56.56	-7.08	74.00	-24.52	350	360	Peak	Vertical		
2 7320.00	45.65	52.73	-7.08	54.00	-8.35	350	360	Average	Vertical		

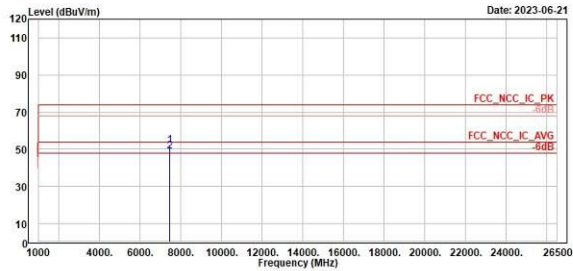
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



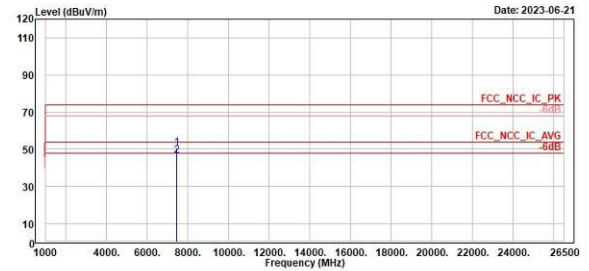
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	52.17	59.35	-7.18	74.00	-21.83	400	302	Peak	Horizontal		
2	7440.00	48.96	56.14	-7.18	54.00	-5.04	400	302	Average	Horizontal		



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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	7440.00	50.45	57.63	-7.18	74.00	-23.55	400	189	Peak	Vertical		
2	7440.00	46.41	53.59	-7.18	54.00	-7.59	400	189	Average	Vertical		

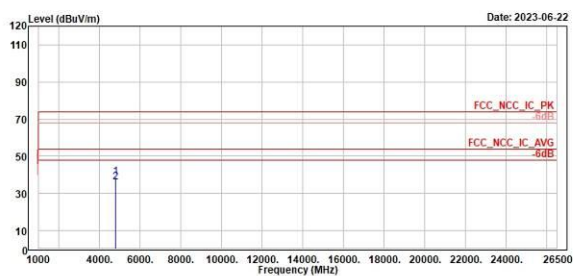
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



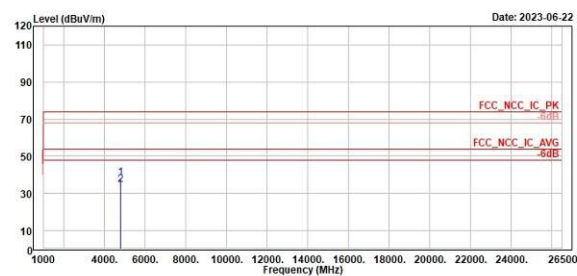
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	38.65	47.68	-9.03	74.00	-35.35	400	169	Peak	Horizontal		
2	4804.00	35.90	44.93	-9.03	54.00	-18.10	400	169	Average	Horizontal		



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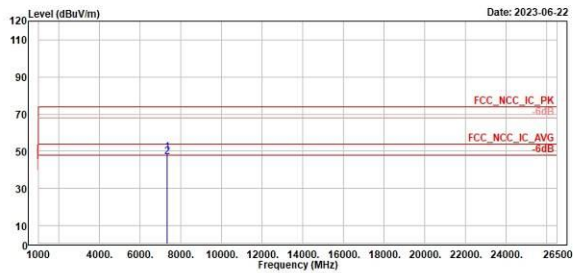
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	38.31	47.34	-9.03	74.00	-35.69	300	144	Peak	Vertical		
2	4804.00	34.59	43.62	-9.03	54.00	-19.41	300	144	Average	Vertical		

BLE_2M

Middle Channel (Horizontal)



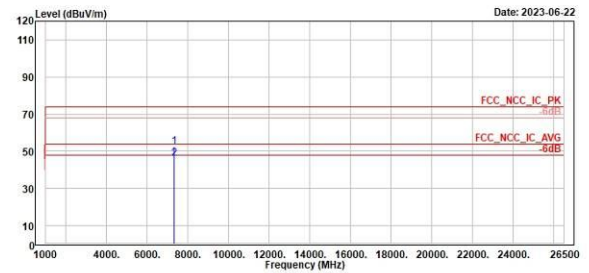
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Middle Channel (Vertical)



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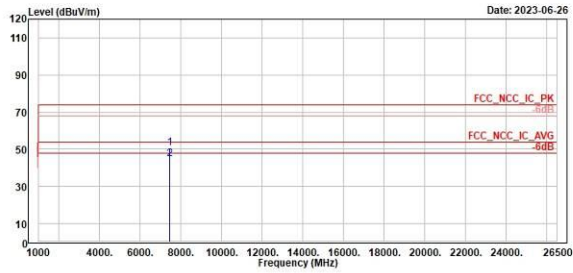
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



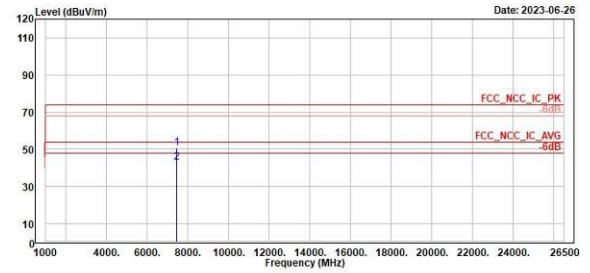
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7440.00	50.43	57.61	-7.18	74.00	-23.57	134	76	Peak	Horizontal		
2	7440.00	44.88	52.06	-7.18	54.00	-9.12	124	76	Average	Horizontal		



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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	7440.00	50.67	57.85	-7.18	74.00	-23.33	100	110	Peak	Vertical		
2	7440.00	42.89	50.07	-7.18	54.00	-11.11	100	110	Average	Vertical		

Mains Conducted Emission, Tx Mode 150kHz ~ 30MHz

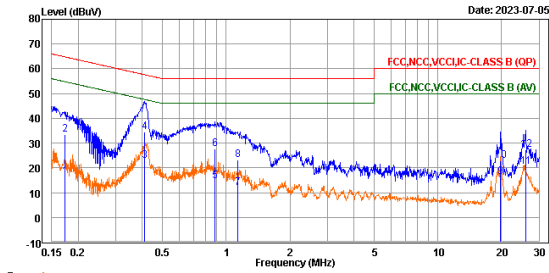
Worst Band

(Line)

(Neutral)



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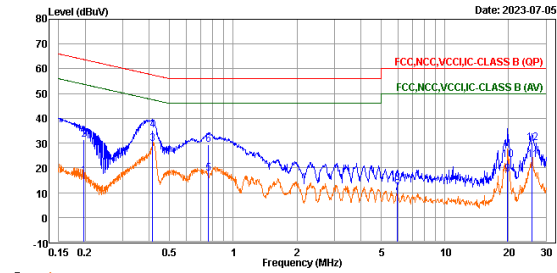


Trace: 1

Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
MHz	dBuV	Factor	Line	Limit	dB		
1	0.17	16.30	6.68	9.62	54.84	-38.54	Average
2	0.17	33.37	23.75	9.62	64.84	-31.47	QP
3	0.41	23.00	13.37	9.63	47.64	-24.64	Average
4	0.41	34.65	25.02	9.63	57.64	-22.99	QP
5	0.88	14.54	4.90	9.64	46.00	-31.46	Average
6	0.88	27.78	18.14	9.64	56.00	-28.22	QP
7	1.13	11.75	2.11	9.64	46.00	-34.25	Average
8	1.13	23.12	13.48	9.64	56.00	-32.88	QP
9	19.74	16.44	6.67	9.77	50.00	-33.56	Average
10	19.74	22.75	12.98	9.77	60.00	-37.25	QP
11	25.96	20.53	10.79	9.74	50.00	-29.47	Average
12	25.96	27.13	17.39	9.74	60.00	-32.87	QP



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Trace: 1

Freq	Level	Read	Limit	Over	Remark	Pol/Phase	Note
MHz	dBuV	Factor	Line	Limit	dB		
1	0.20	16.66	7.04	9.62	53.76	-37.10	Average
2	0.20	31.37	21.75	9.62	63.76	-32.39	QP
3	0.42	29.74	20.11	9.63	47.51	-17.77	Average
4	0.42	35.12	25.49	9.63	57.51	-22.39	QP
5	0.76	17.73	8.09	9.64	46.00	-28.27	Average
6	0.76	29.35	19.71	9.64	56.00	-26.65	QP
7	5.94	9.74	0.00	9.74	50.00	-48.26	Average
8	5.94	13.94	4.20	9.74	60.00	-46.06	QP
9	19.74	17.32	7.46	9.86	50.00	-32.68	Average
10	19.74	23.18	13.32	9.86	60.00	-36.82	QP
11	25.83	23.15	13.28	9.87	50.00	-26.85	Average
12	25.83	29.89	20.02	9.87	60.00	-30.11	QP