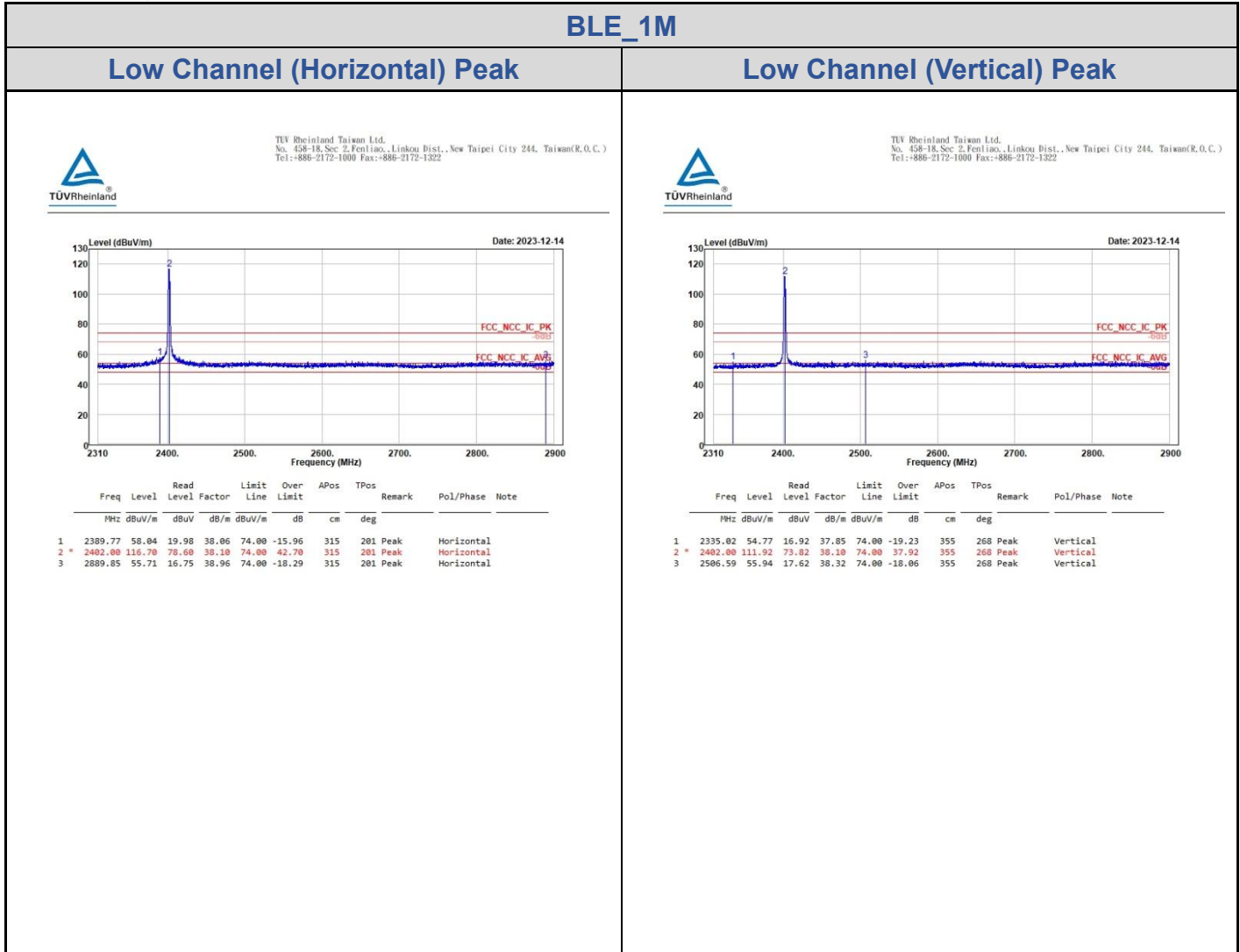


Appendix C: Test Results of Radiated Spurious Emissions & Mains

Radiated Emission Test for UFL Antenna

Ant No. 2

Band Edges, 2.31GHz ~ 2.9GHz



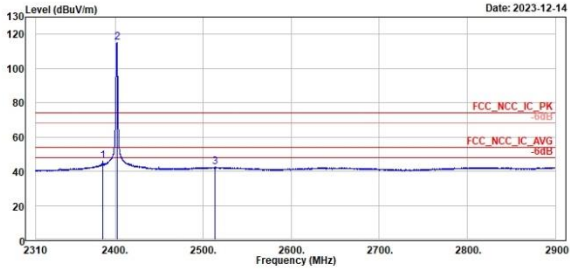
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



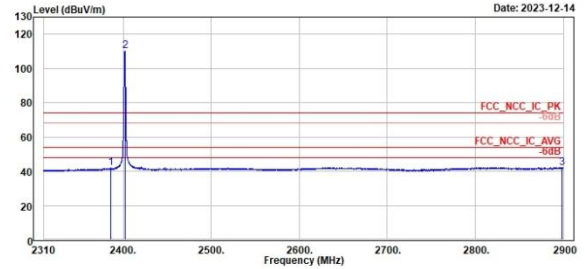
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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.99	46.19	8.15	38.04	54.00	-7.81	315	201 Average	Horizontal
2 *	2402.00	115.07	76.97	38.10	54.00	61.07	315	201 Average	Horizontal
3	2513.79	42.32	3.99	38.33	54.00	-11.68	315	201 Average	Horizontal



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1	2	3							
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.87	42.17	4.13	38.04	54.00	-11.83	355	268 Average	Vertical
2 *	2402.00	110.33	72.23	38.10	54.00	56.33	355	268 Average	Vertical
3	2897.99	42.14	3.15	38.99	54.00	-11.86	355	268 Average	Vertical

BLE_1M

Middle Channel (Horizontal) Peak

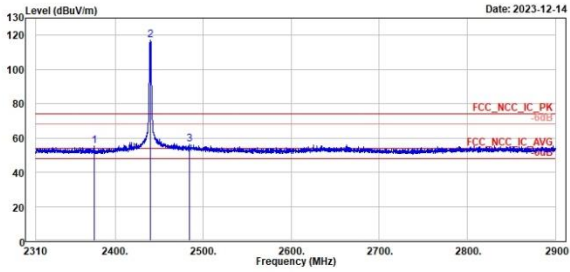
Middle Channel (Vertical) Peak



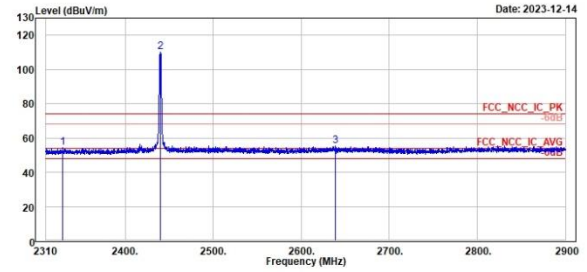
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2376.43	55.24	17.23	38.01	74.00	-18.76	210	207	Peak	Horizontal	
2 *	2440.00	117.18	78.88	38.30	74.00	43.18	210	207	Peak	Horizontal	
3	2484.76	56.16	17.84	38.32	74.00	-17.84	210	207	Peak	Horizontal	



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2329.12	54.16	16.34	37.82	74.00	-19.84	279	208	Peak	Vertical	
2 *	2440.00	110.12	71.82	38.30	74.00	36.12	279	208	Peak	Vertical	
3	2638.63	55.32	16.79	38.53	74.00	-18.68	279	208	Peak	Vertical	

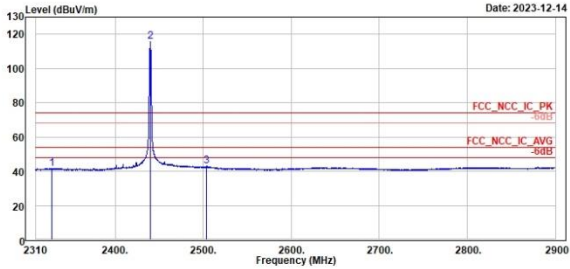
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



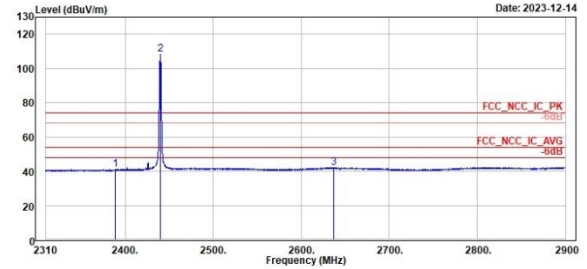
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1	2	3
2328.29	2440.00	2503.99
41.70	115.57	42.99
3.89	77.27	4.68
37.81	38.30	38.31
54.00	54.00	54.00
-12.30	61.57	-11.01
210	210	210
207 Average	207 Average	207 Average
Horizontal	Horizontal	Horizontal



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1	2	3
2388.82	2440.00	2636.86
40.92	108.37	42.11
2.86	70.07	3.59
38.06	38.30	38.52
54.00	54.00	54.00
-13.08	54.37	-11.89
279	279	279
208 Average	208 Average	208 Average
Vertical	Vertical	Vertical

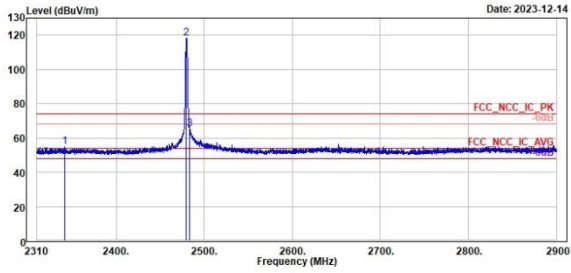
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



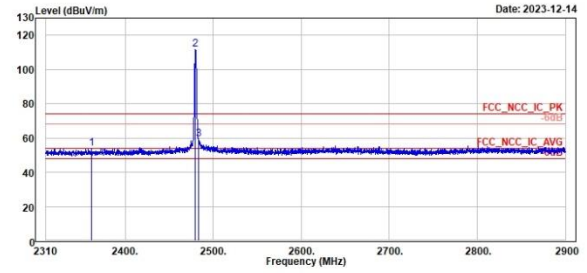
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2341.27	54.95	17.06	37.89	74.00	-19.05	234	208	Peak	Horizontal	
2 *	2489.00	118.24	79.91	38.33	74.00	44.24	234	208	Peak	Horizontal	
3	2483.50	65.12	26.80	38.32	74.00	-8.88	234	208	Peak	Horizontal	



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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2362.27	53.93	15.97	37.96	74.00	-20.07	327	158	Peak	Vertical	
2 *	2489.00	111.54	73.21	38.33	74.00	37.54	327	158	Peak	Vertical	
3	2483.50	59.21	20.89	38.32	74.00	-14.79	327	158	Peak	Vertical	

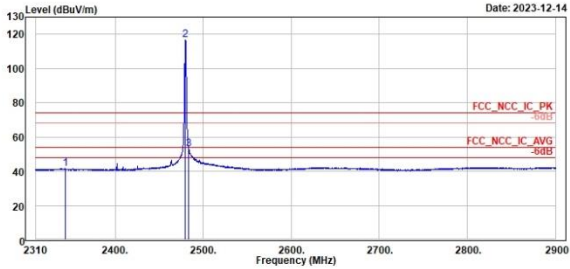
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



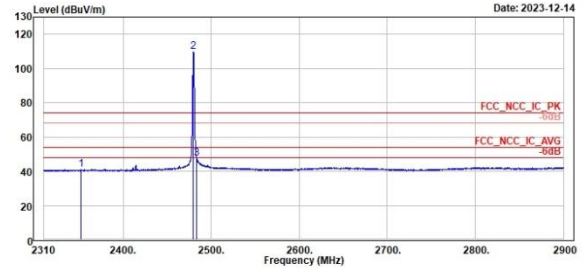
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Hz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	Remark		Pol/Phase		Note							
2343.28	41.48	3.59	37.89	54.00	-12.52	234	208	Average	Horizontal										
2480.00	116.43	78.10	38.33	54.00	62.43	234	208	Average	Horizontal										
2483.50	52.87	14.55	38.32	54.00	-1.13	234	208	Average	Horizontal										



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Hz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	Remark		Pol/Phase		Note							
2352.01	41.11	3.18	37.93	54.00	-12.89	327	158	Average	Vertical										
2480.00	109.60	71.27	38.33	54.00	55.60	327	158	Average	Vertical										
2483.50	47.36	9.04	38.32	54.00	-6.64	327	158	Average	Vertical										

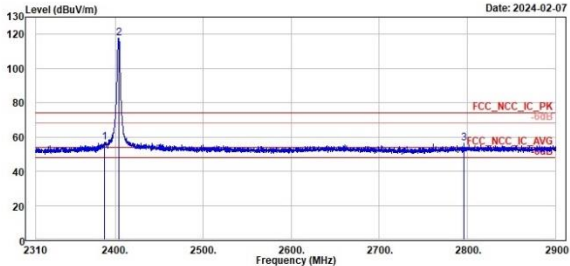
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



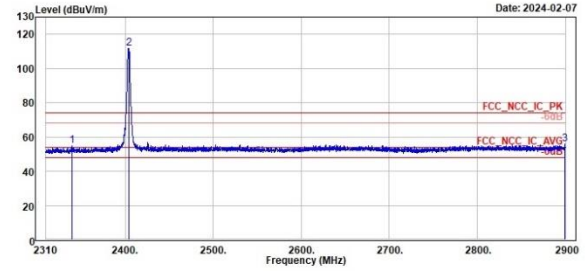
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.35	57.08	19.02	38.06	74.00	-16.92	217	203	Peak	Horizontal	
2 *	2404.00	117.75	79.64	38.11	74.00	43.75	217	203	Peak	Horizontal	
3	2795.69	56.53	18.00	38.53	74.00	-17.47	217	203	Peak	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2339.38	54.64	16.76	37.88	74.00	-19.36	309	157	Peak	Vertical	
2 *	2404.00	111.74	73.63	38.11	74.00	37.74	309	157	Peak	Vertical	
3	2898.82	55.69	16.70	38.99	74.00	-18.31	309	157	Peak	Vertical	

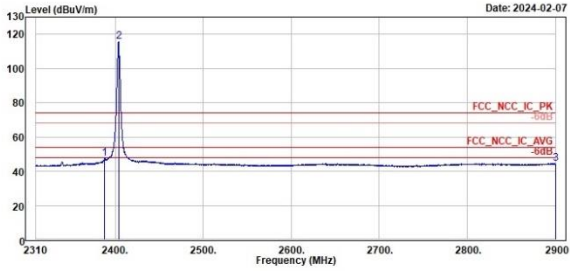
BLE_2M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



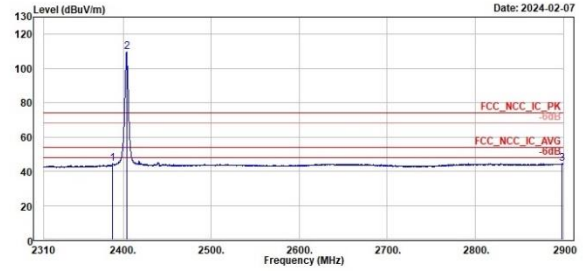
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1	2	3								
MHz	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.12	47.50	9.44	38.06	54.00	-6.50	217	203 Average	Horizontal	
2 *	2404.00	115.62	77.51	38.11	54.00	61.62	217	203 Average	Horizontal	
3	2899.88	44.46	5.47	38.99	54.00	-9.54	217	203 Average	Horizontal	



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1	2	3								
MHz	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.00	44.26	6.20	38.06	54.00	-9.74	309	157 Average	Vertical	
2 *	2404.00	109.66	71.55	38.11	54.00	55.66	309	157 Average	Vertical	
3	2898.47	44.52	5.53	38.99	54.00	-9.48	309	157 Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak

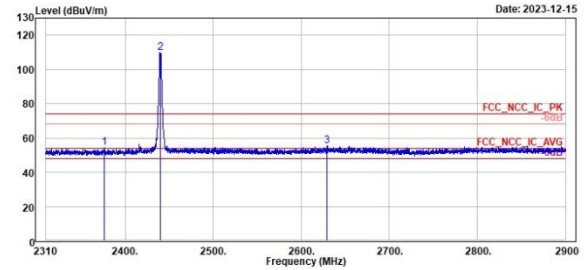
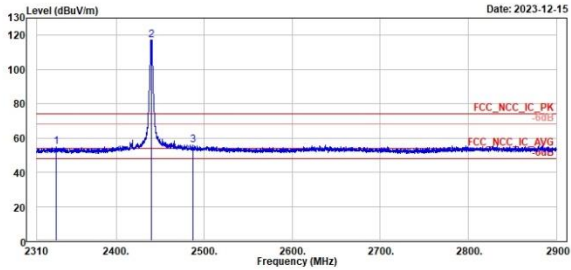
Middle Channel (Vertical) Peak



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note									
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
2331.59	54.95	17.11	37.84	74.00	-19.05	212	207	Peak	Horizontal										
2440.00	117.35	79.05	38.30	74.00	43.35	212	207	Peak	Horizontal										
2487.00	55.92	17.60	38.32	74.00	-18.08	212	207	Peak	Horizontal										

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note									
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
2376.32	54.21	16.20	38.01	74.00	-19.79	276	209	Peak	Vertical										
2440.00	109.74	71.44	38.30	74.00	35.74	276	209	Peak	Vertical										
2629.54	55.45	16.96	38.49	74.00	-18.55	276	209	Peak	Vertical										

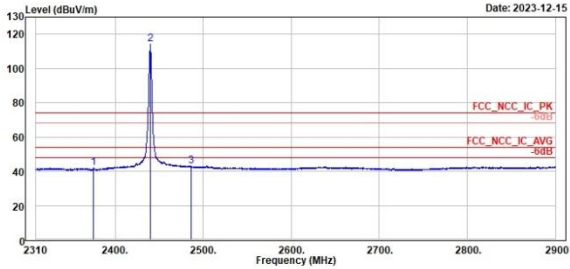
BLE_2M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



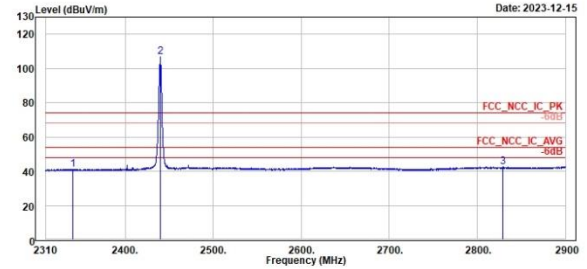
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1	2	3							
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2375.84	41.91	3.90	38.01	54.00	-12.09	212	207 Average	Horizontal	
2440.00	114.03	75.73	38.30	54.00	60.03	212	207 Average	Horizontal	
2486.65	43.22	4.90	38.32	54.00	-10.78	212	207 Average	Horizontal	



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1	2	3							
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2340.56	41.24	3.36	37.88	54.00	-12.76	276	209 Average	Vertical	
2440.00	106.52	68.22	38.30	54.00	52.52	276	209 Average	Vertical	
2829.20	42.75	4.02	38.73	54.00	-11.25	276	209 Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

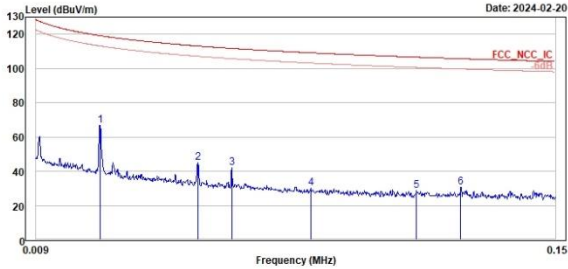
BLE_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



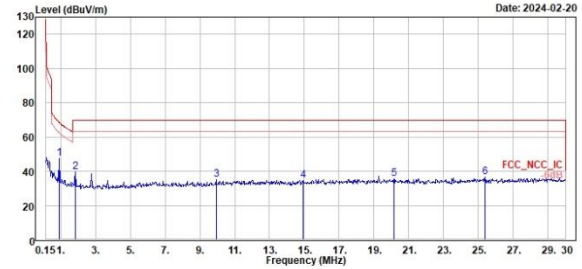
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.03	66.96	47.15	19.81	119.13	-52.17	100		105 Peak	Open	
2	0.05	44.80	25.50	19.30	113.11	-68.31	100		189 Peak	Open	
3	0.06	41.88	23.09	18.79	111.72	-69.84	100		190 Peak	Open	
4	0.08	29.92	11.36	18.56	109.14	-79.22	100		0 Peak	Open	
5	0.11	28.62	10.03	18.59	106.59	-77.97	100		0 Peak	Open	
6	0.12	30.68	12.01	18.67	105.71	-75.03	100		6 Peak	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.93	47.41	28.27	19.14	68.27	-20.86	100		144 Peak	Open	
2	1.85	39.47	20.45	19.02	69.50	-30.03	100		144 Peak	Open	
3	9.94	34.85	13.60	21.25	69.50	-34.65	100		52 Peak	Open	
4	14.93	34.72	13.19	21.53	69.50	-34.78	100		270 Peak	Open	
5	20.15	35.45	12.88	22.57	69.50	-34.05	100		183 Peak	Open	
6	25.37	36.44	13.45	22.99	69.50	-33.06	100		132 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

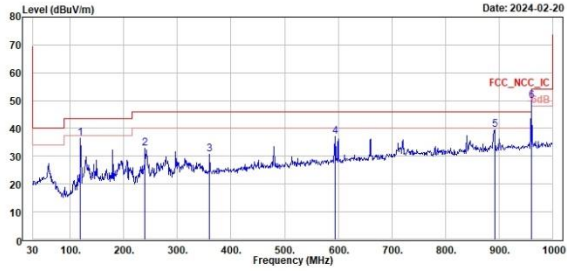
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



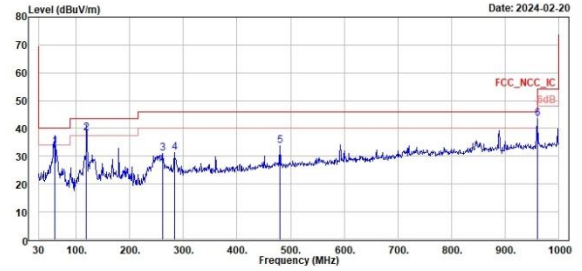
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	119.24	36.63	45.82	-9.19	43.50	-6.87	300	260	Peak	Horizontal	
2	239.52	32.91	39.51	-6.60	46.00	-13.09	200	196	Peak	Horizontal	
3	359.80	30.72	34.28	-3.56	46.00	-15.28	100	278	Peak	Horizontal	
4	594.54	37.05	36.69	0.36	46.00	-8.95	100	227	Peak	Horizontal	
5	892.33	39.56	34.99	4.57	46.00	-6.44	100	282	Peak	Horizontal	
6	960.23	49.80	44.29	5.51	54.00	-4.20	100	196	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	59.10	33.40	39.72	-6.32	40.00	-6.60	100	138	QP	Vertical	
2	119.24	38.38	47.57	-9.19	43.50	-5.12	100	66	QP	Vertical	
3	260.06	30.94	37.07	-6.13	46.00	-15.06	100	272	Peak	Vertical	
4	283.17	31.44	36.54	-5.10	46.00	-14.56	100	322	Peak	Vertical	
5	480.08	33.68	35.31	-1.63	46.00	-12.32	100	166	Peak	Vertical	
6	960.23	43.56	38.05	5.51	54.00	-10.44	100	156	Peak	Vertical	

BLE_1M

Middle Channel (Horizontal)

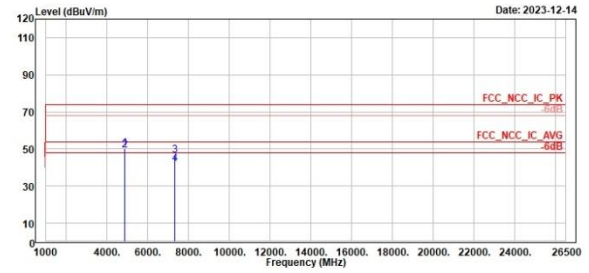
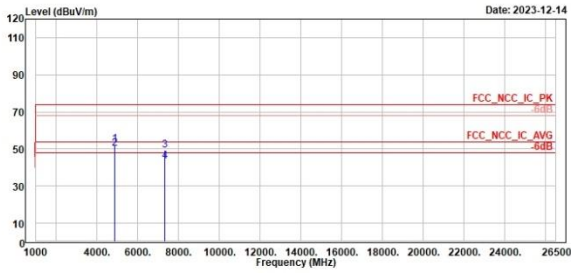
Middle Channel (Vertical)



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1	2	3	4
4880.00	4880.00	7320.00	7320.00
52.42	50.18	49.08	43.50
60.34	58.10	54.44	48.86
-7.92	-7.92	-5.36	-5.36
74.00	54.00	74.00	54.00
-21.58	-3.82	-24.92	-10.50
105	105	100	100
60	60	298	298
Peak	Average	Peak	Average
Horizontal	Horizontal	Horizontal	Horizontal

1	2	3	4
4880.00	4880.00	7320.00	7320.00
50.29	49.42	46.74	42.08
58.21	57.34	52.10	47.44
-7.92	-7.92	-5.36	-5.36
74.00	54.00	74.00	54.00
-23.71	-4.58	-27.26	-11.92
300	300	300	300
324	324	348	348
Peak	Average	Peak	Average
Vertical	Vertical	Vertical	Vertical

BLE_1M

High Channel (Horizontal)

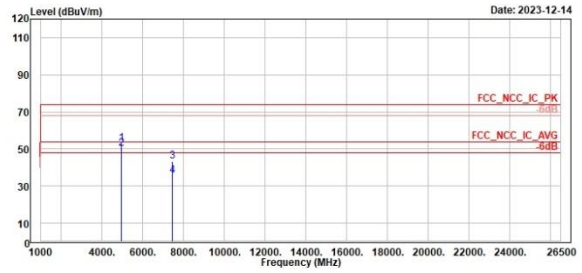
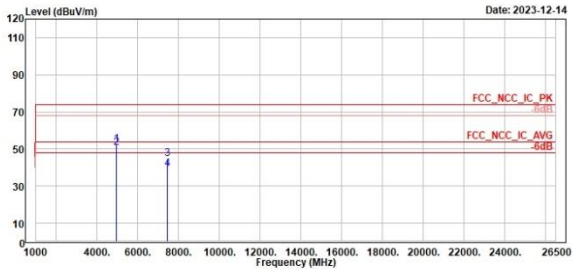
High Channel (Vertical)



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Item	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	52.50	60.29	-7.79	74.00	-21.50	100		133 Peak	Horizontal	
2	4960.00	50.55	58.34	-7.79	54.00	-3.45	100		133 Average	Horizontal	
3	7440.00	44.66	50.04	-5.38	74.00	-29.34	300		37 Peak	Horizontal	
4	7440.00	39.29	44.67	-5.38	54.00	-14.71	300		37 Average	Horizontal	

Item	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4960.00	52.90	60.69	-7.79	74.00	-21.10	211		173 Peak	Vertical	
2	4960.00	50.00	57.79	-7.79	54.00	-4.00	211		173 Average	Vertical	
3	7440.00	43.41	48.79	-5.38	74.00	-30.59	100		360 Peak	Vertical	
4	7440.00	35.78	41.16	-5.38	54.00	-18.22	100		360 Average	Vertical	

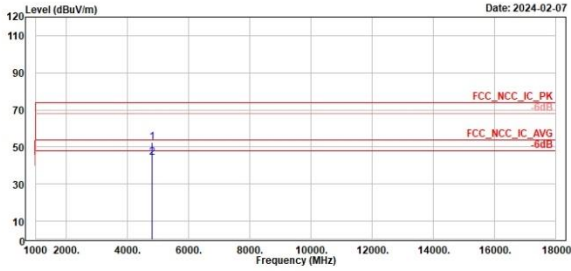
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



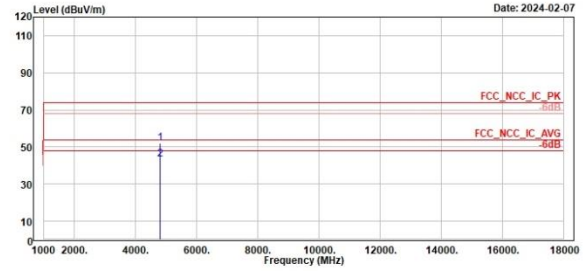
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	Level	Read Level	Factor	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note									
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
1	4888.00	52.28	60.28	-8.00	74.00	-21.72	100	61 Peak	Horizontal										
2	4888.00	44.25	52.25	-8.00	54.00	-9.75	100	61 Average	Horizontal										



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	Level	Read Level	Factor	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note									
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
1	4888.00	52.23	60.23	-8.00	74.00	-21.77	100	53 Peak	Vertical										
2	4888.00	43.34	51.34	-8.00	54.00	-10.66	100	53 Average	Vertical										

BLE_2M

Middle Channel (Horizontal)

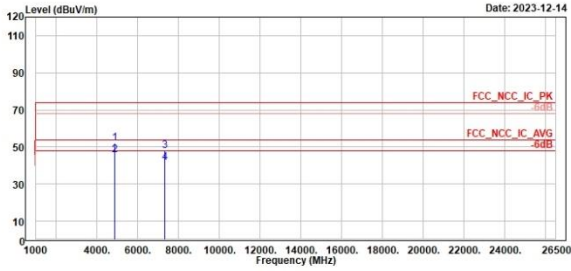
Middle Channel (Vertical)



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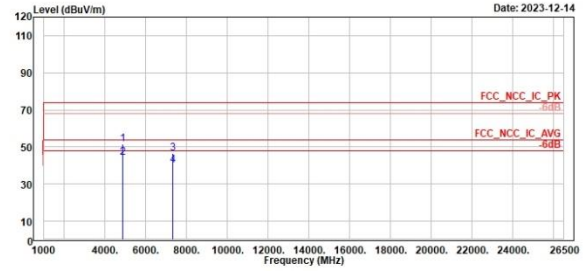


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1	2	3	4
Freq	Level	Read Level	Factor
MHz	dBuV/m	dBuV	dB/m
4880.00	52.20	60.12	-7.92
4880.00	45.73	53.65	-7.92
7320.00	47.72	53.08	-5.36
7320.00	41.47	46.83	-5.36

Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dB	dB	cm	deg			
74.00	-21.80	100		59 Peak	Horizontal	
54.00	-8.27	100		59 Average	Horizontal	
74.00	-26.28	100		302 Peak	Horizontal	
54.00	-12.53	100		302 Average	Horizontal	



1	2	3	4
Freq	Level	Read Level	Factor
MHz	dBuV/m	dBuV	dB/m
4880.00	51.34	59.26	-7.92
4880.00	44.36	52.28	-7.92
7320.00	46.44	51.80	-5.36
7320.00	40.28	45.64	-5.36

Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dB	dB	cm	deg			
74.00	-22.66	305	315	315 Peak	Vertical	
54.00	-9.64	305	315	315 Average	Vertical	
74.00	-27.56	300	317	317 Peak	Vertical	
54.00	-13.72	300	317	317 Average	Vertical	

BLE_2M

High Channel (Horizontal)

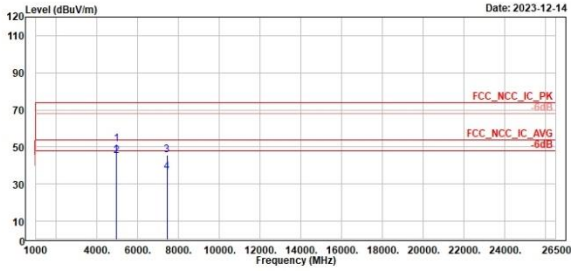
High Channel (Vertical)



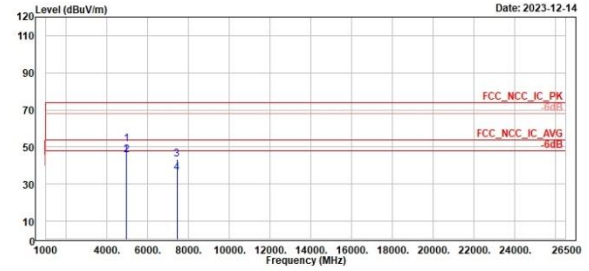
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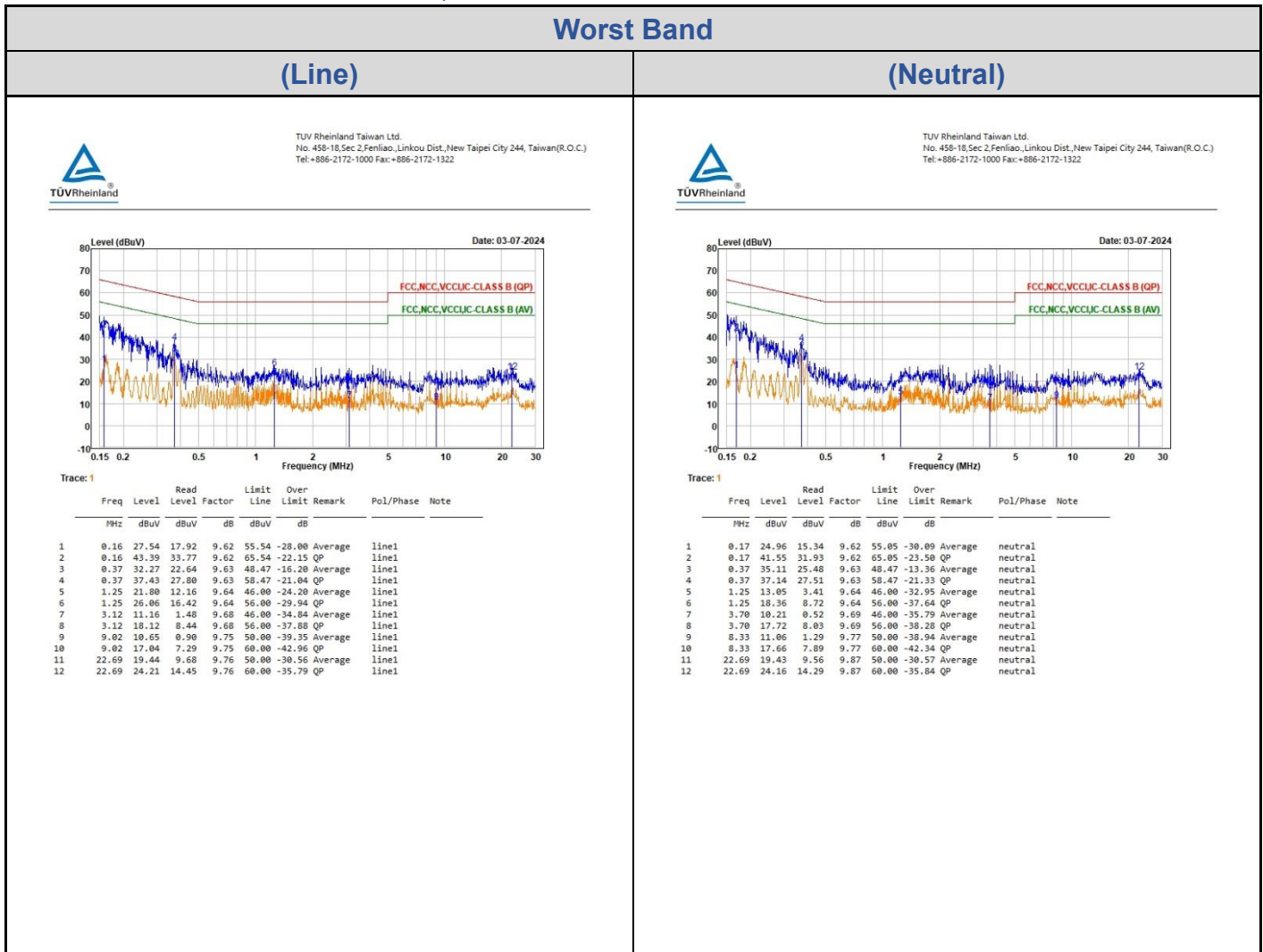


1	2	3	4
Level	Factor	Limit	Over
Line	Limit	Remark	Pol/Phase
MHz	dBuV/m	dBuV	dB/m
4956.00	51.33	59.12	-7.79
4956.00	45.37	53.16	-7.79
7434.00	45.51	50.90	-5.39
7434.00	36.38	41.77	-5.39



1	2	3	4
Level	Factor	Limit	Over
Line	Limit	Remark	Pol/Phase
MHz	dBuV/m	dBuV	dB/m
4956.00	51.75	59.54	-7.79
4956.00	45.73	53.52	-7.79
7434.00	43.47	48.86	-5.39
7434.00	35.91	41.30	-5.39

Mains Conducted Emission, Tx Mode 150kHz ~ 30MHz



Ant No. 4
Band Edges, 2.31GHz ~ 2.9GHz

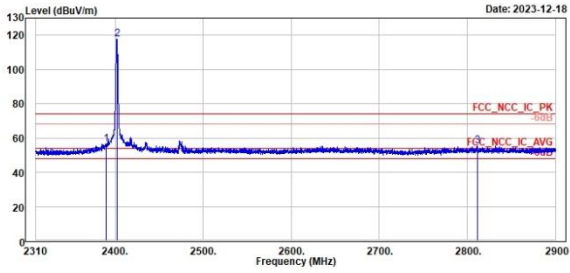
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



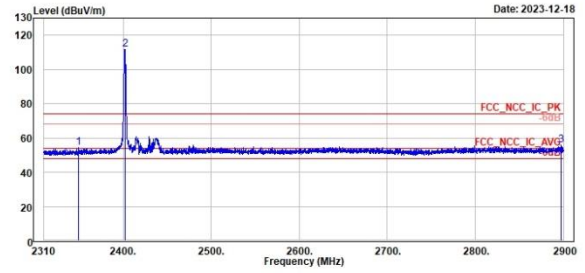
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Peak #	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2389.89	56.29	18.23	38.06	74.00	-17.71	307	194	Peak	Horizontal	
2 *	2402.00	117.67	79.57	38.10	74.00	43.67	307	194	Peak	Horizontal	
3	2811.26	55.30	16.67	38.63	74.00	-18.70	307	194	Peak	Horizontal	



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Peak #	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2349.06	54.23	16.30	37.93	74.00	-19.77	348	88	Peak	Vertical	
2 *	2402.00	111.59	73.49	38.10	74.00	37.59	348	88	Peak	Vertical	
3	2897.17	55.87	16.89	38.98	74.00	-18.13	348	88	Peak	Vertical	

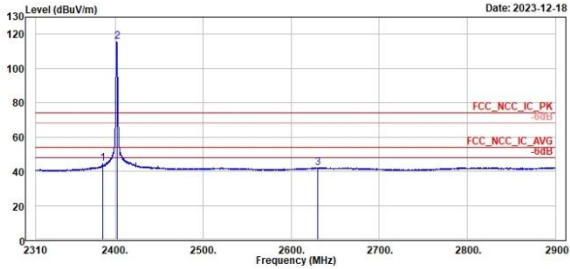
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



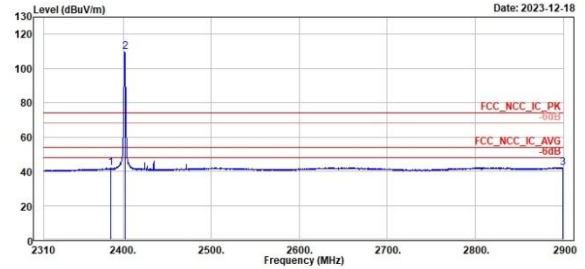
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1	2	3							
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.99	44.61	6.57	38.04	54.00	-9.39	307	194 Average	Horizontal
2	2402.00	115.72	77.62	38.10	54.00	61.72	307	194 Average	Horizontal
3	2630.13	42.12	3.63	38.49	54.00	-11.88	307	194 Average	Horizontal



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1	2	3							
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.87	41.82	3.78	38.04	54.00	-12.18	348	88 Average	Vertical
2	2402.00	109.52	71.42	38.10	54.00	55.52	348	88 Average	Vertical
3	2899.06	42.15	3.16	38.99	54.00	-11.85	348	88 Average	Vertical

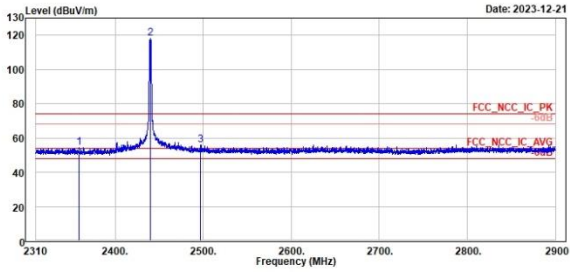
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



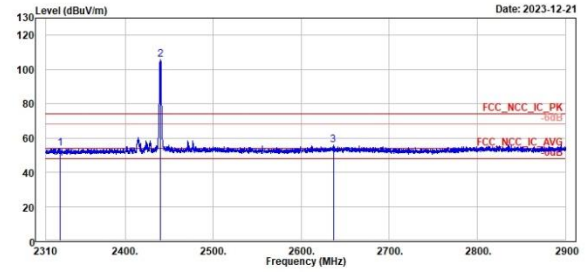
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2358.85	54.33	16.37	37.96	74.00	-19.67	373	331	Peak	Horizontal	
2 *	2440.00	118.38	80.08	38.30	74.00	44.38	373	331	Peak	Horizontal	
3	2497.38	55.85	17.53	38.32	74.00	-18.15	373	331	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2325.81	54.09	16.29	37.80	74.00	-19.91	100	184	Peak	Vertical	
2 *	2440.00	105.62	67.32	38.30	74.00	31.62	100	184	Peak	Vertical	
3	2636.39	55.93	17.41	38.52	74.00	-18.07	100	184	Peak	Vertical	

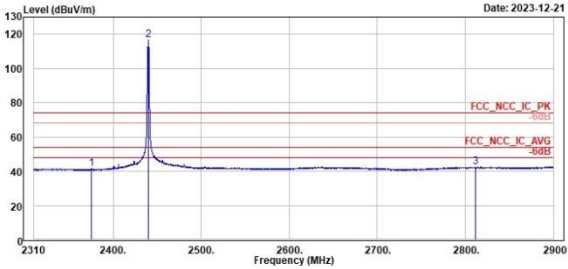
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



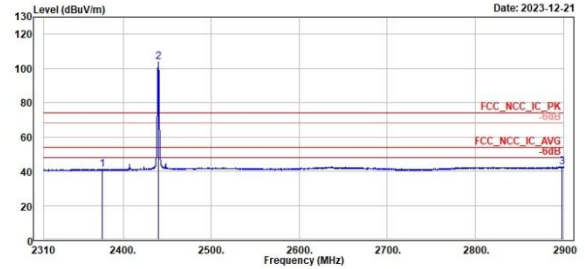
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1	2	3
2375.84	2440.00	2811.50
41.75	116.83	42.56
3.74	78.53	3.93
38.01	38.30	38.63
54.00	54.00	54.00
-12.25	62.83	-11.44
373	373	373
331 Average	331 Average	331 Average
Horizontal	Horizontal	Horizontal



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1	2	3
2376.08	2440.00	2897.88
41.08	104.05	42.61
3.07	65.75	3.62
38.01	38.30	38.99
54.00	54.00	54.00
-12.92	50.05	-11.39
100	100	100
184 Average	184 Average	184 Average
Vertical	Vertical	Vertical

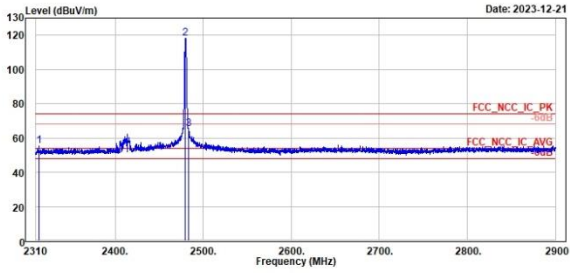
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



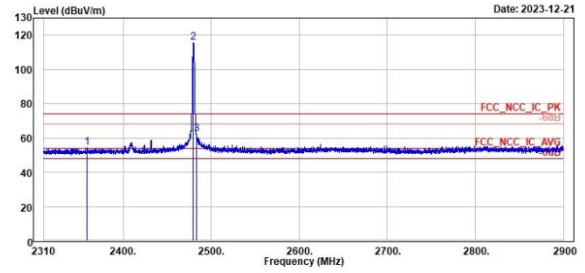
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2313.30	55.15	17.41	37.74	74.00	-18.85	206	314	Peak	Horizontal	
2 *	2480.00	118.28	79.95	38.33	74.00	44.28	206	314	Peak	Horizontal	
3	2483.50	65.10	26.78	38.32	74.00	-8.90	206	314	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2359.09	54.21	16.25	37.96	74.00	-19.79	353	294	Peak	Vertical	
2 *	2480.00	115.48	77.15	38.33	74.00	41.48	353	294	Peak	Vertical	
3	2483.70	62.04	23.72	38.32	74.00	-11.96	353	294	Peak	Vertical	

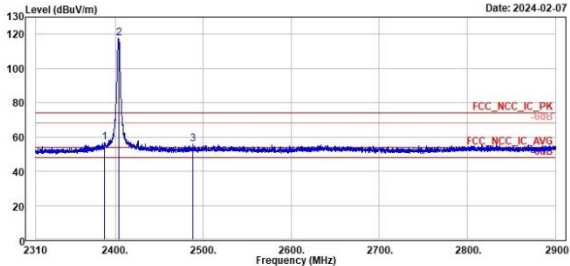
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



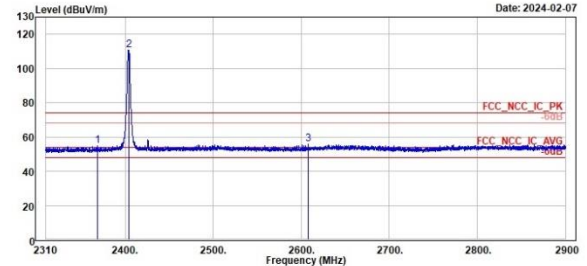
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.00	56.91	18.85	38.06	74.00	-17.09	312	205	Peak	Horizontal	
2 *	2404.00	117.42	79.31	38.11	74.00	43.42	312	205	Peak	Horizontal	
3	2488.53	55.64	17.32	38.32	74.00	-18.36	312	205	Peak	Horizontal	



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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2368.53	55.05	17.06	37.99	74.00	-18.95	310	139	Peak	Vertical	
2 *	2404.00	110.76	72.65	38.11	74.00	36.76	310	139	Peak	Vertical	
3	2607.60	55.64	17.27	38.37	74.00	-18.36	310	139	Peak	Vertical	

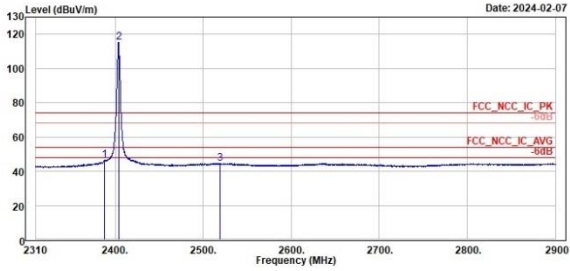
BLE_2M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



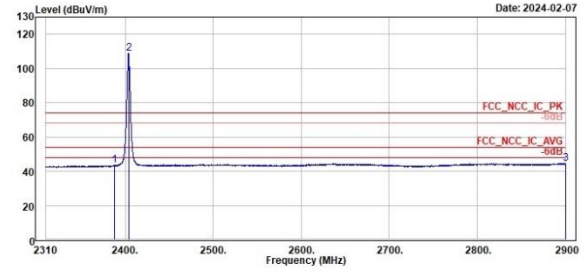
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1	2	3
2388.00	2404.00	2519.10
46.68	115.31	44.65
8.62	77.20	6.32
38.06	38.11	38.33
54.00	54.00	54.00
-7.32	61.31	-9.35
312	312	312
205 Average	205 Average	205 Average
Horizontal	Horizontal	Horizontal



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1	2	3
2387.76	2404.00	2900.00
43.61	108.77	44.61
5.55	70.66	5.62
38.06	38.11	38.99
54.00	54.00	54.00
-10.39	54.77	-9.39
310	310	310
139 Average	139 Average	139 Average
Vertical	Vertical	Vertical

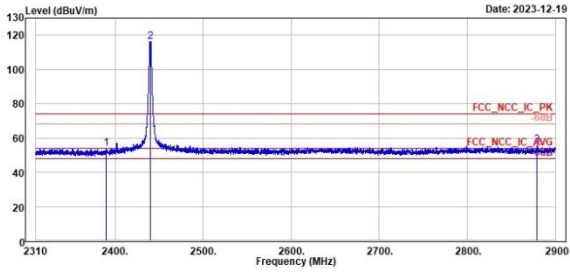
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



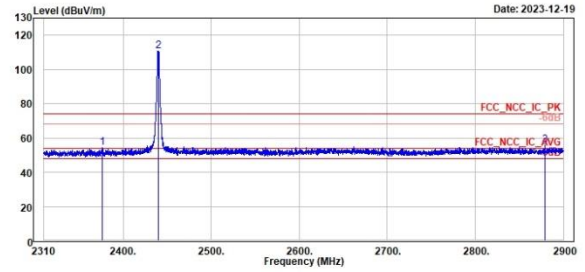
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2389.53	53.83	15.77	38.06	74.00	-20.17	334		5 Peak	Horizontal	
2 *	2440.00	116.27	77.97	38.30	74.00	42.27	334		5 Peak	Horizontal	
3	2878.76	55.64	16.72	38.92	74.00	-18.36	334		5 Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2376.00	54.14	16.13	38.01	74.00	-19.86	330		103 Peak	Vertical	
2 *	2440.00	118.04	72.54	38.30	74.00	36.84	330		103 Peak	Vertical	
3	2879.11	56.10	17.18	38.92	74.00	-17.90	330		103 Peak	Vertical	

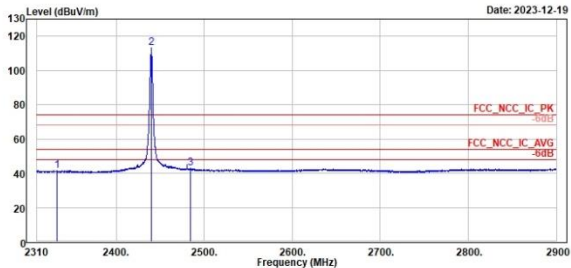
BLE_2M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



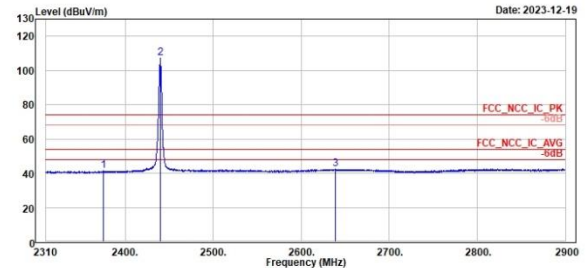
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
Tpos	Tpos	Tpos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2333.36	2440.00	2484.29
41.44	113.17	42.79
3.60	74.87	4.47
37.84	38.30	38.32
54.00	54.00	54.00
-12.56	59.17	-11.21
334	334	334
5 Average	5 Average	5 Average
Horizontal	Horizontal	Horizontal



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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
Tpos	Tpos	Tpos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2375.61	2440.00	2638.51
41.39	107.35	42.45
3.38	69.05	3.92
38.01	38.30	38.53
54.00	54.00	54.00
-12.61	53.35	-11.55
330	330	330
103 Average	103 Average	103 Average
Vertical	Vertical	Vertical

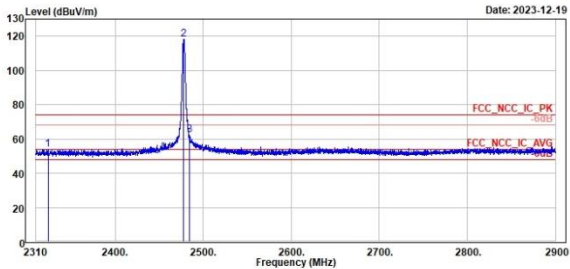
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



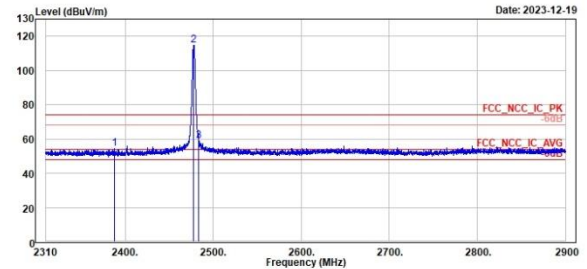
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1	2	3								
Hz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	Remark	Pol/Phase	Note
2323.81	53.86	16.06	37.88	74.00	-20.14	260		10 Peak	Horizontal	
2478.00	118.14	79.82	38.32	74.00	44.14	260		10 Peak	Horizontal	
2484.05	62.25	23.93	38.32	74.00	-11.75	260		10 Peak	Horizontal	



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1	2	3								
Hz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	Remark	Pol/Phase	Note
2387.76	54.37	16.31	38.06	74.00	-19.63	364		276 Peak	Vertical	
2478.00	114.67	76.35	38.32	74.00	40.67	364		276 Peak	Vertical	
2483.50	58.88	20.56	38.32	74.00	-15.12	364		276 Peak	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

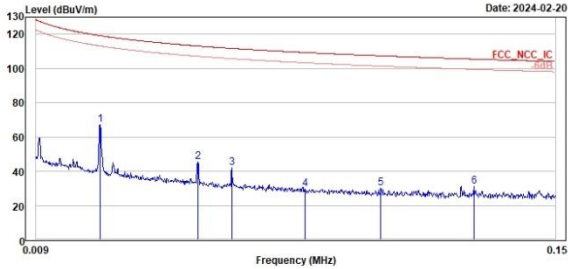
BLE_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



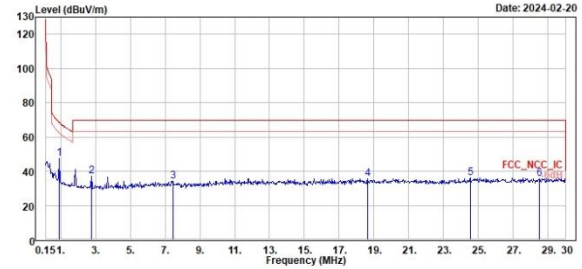
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Peak	Freq	Level	Read Level	Factor	Limit	Over	Apos	Tpos	Remark	PoI/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.03	67.22	47.41	19.81	119.13	-51.91	100		66 Peak	Open	
2	0.05	45.55	26.25	19.30	113.11	-67.56	100		110 Peak	Open	
3	0.06	41.99	23.20	18.79	111.72	-69.73	100		216 Peak	Open	
4	0.08	29.55	11.01	18.54	109.32	-79.77	100		176 Peak	Open	
5	0.10	30.00	11.46	18.54	107.37	-77.37	100		54 Peak	Open	
6	0.13	30.91	12.22	18.69	105.46	-74.55	100		142 Peak	Open	



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Peak	Freq	Level	Read Level	Factor	Limit	Over	Apos	Tpos	Remark	PoI/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.93	47.57	28.43	19.14	68.27	-20.70	100		168 Peak	Open	
2	2.78	37.00	17.88	19.12	69.50	-32.50	100		159 Peak	Open	
3	7.46	34.20	13.31	20.89	69.50	-35.30	100		333 Peak	Open	
4	18.63	35.82	13.28	22.54	69.50	-33.68	100		312 Peak	Open	
5	24.54	36.11	13.39	22.72	69.50	-33.39	100		44 Peak	Open	
6	28.51	35.80	12.78	23.02	69.50	-33.70	100		213 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

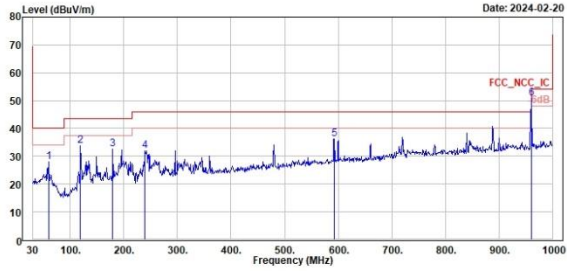
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



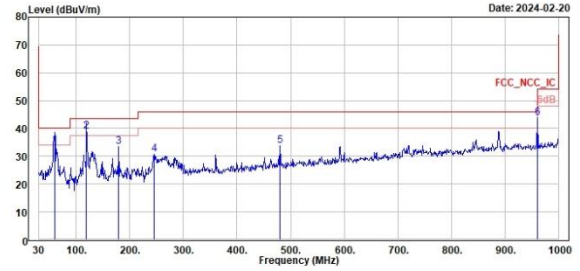
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Peak	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	59.10	27.94	34.26	-6.32	40.00	-12.06	200		231 Peak	Horizontal	
2	119.24	33.69	42.88	-9.19	43.50	-9.81	200		240 Peak	Horizontal	
3	179.38	32.67	39.36	-6.69	43.50	-10.83	200		156 Peak	Horizontal	
4	239.52	31.89	38.49	-6.60	46.00	-14.11	200		0 Peak	Horizontal	
5	592.60	36.26	35.94	0.32	46.00	-9.74	100		220 Peak	Horizontal	
6	960.23	50.69	45.18	5.51	54.00	-3.31	100		199 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	59.10	33.62	39.94	-6.32	40.00	-6.38	100		297 QP	Vertical	
2	119.24	38.96	48.15	-9.19	43.50	-4.54	100		44 QP	Vertical	
3	179.38	33.36	40.05	-6.69	43.50	-10.14	100		114 Peak	Vertical	
4	245.34	30.52	37.15	-6.53	46.00	-15.38	100		275 Peak	Vertical	
5	480.08	33.77	35.40	-1.63	46.00	-12.23	100		166 Peak	Vertical	
6	960.23	43.92	38.41	5.51	54.00	-10.08	100		231 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

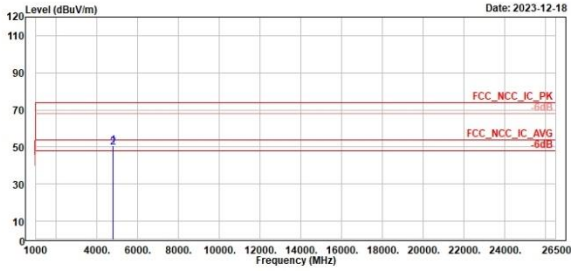
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



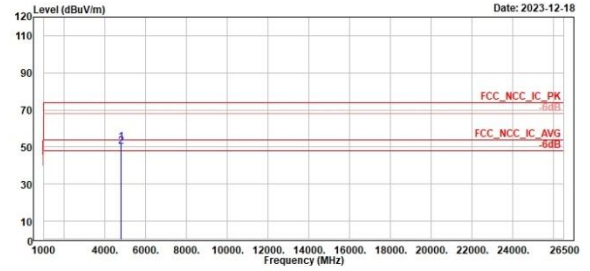
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	50.74	58.75	-8.01	74.00	-23.26	100	327 Peak	Horizontal	
2	4804.00	49.57	57.58	-8.01	54.00	-4.43	100	327 Average	Horizontal	



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	52.54	60.55	-8.01	74.00	-21.46	300	184 Peak	Vertical	
2	4804.00	50.05	58.06	-8.01	54.00	-3.95	300	184 Average	Vertical	

BLE_1M

Middle Channel (Horizontal)

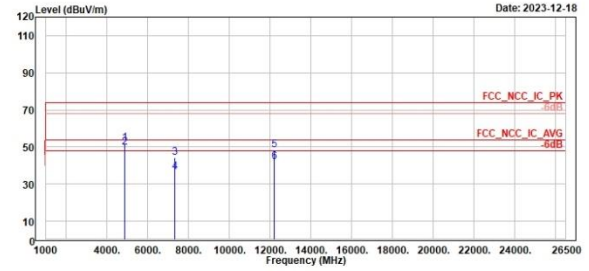
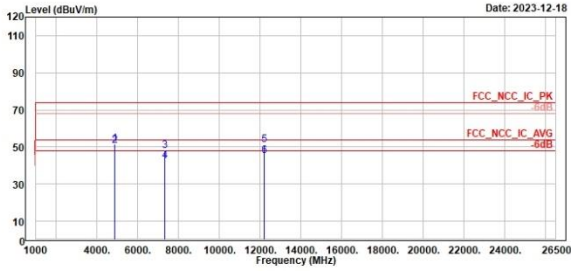
Middle Channel (Vertical)



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1	2	3	4	5	6				
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
4880.00	51.47	59.39	-7.92	74.00	-22.53	100	318 Peak	Horizontal	
4880.00	50.86	58.78	-7.92	54.00	-3.14	100	318 Average	Horizontal	
7320.00	47.89	55.25	-5.36	74.00	-26.11	100	158 Peak	Horizontal	
7320.00	42.64	48.00	-5.36	54.00	-11.36	100	158 Average	Horizontal	
12200.00	51.16	48.80	2.36	74.00	-22.84	100	48 Peak	Horizontal	
12200.00	45.30	42.94	2.36	54.00	-8.70	100	48 Average	Horizontal	

1	2	3	4	5	6				
Freq	Level	Read	Limit	Over	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
4880.00	51.90	59.82	-7.92	74.00	-22.10	212	360 Peak	Vertical	
4880.00	49.52	57.44	-7.92	54.00	-4.48	212	360 Average	Vertical	
7320.00	44.11	49.47	-5.36	74.00	-29.89	300	360 Peak	Vertical	
7320.00	36.61	41.97	-5.36	54.00	-17.39	300	360 Average	Vertical	
12200.00	48.14	45.78	2.36	74.00	-25.86	355	301 Peak	Vertical	
12200.00	42.04	39.68	2.36	54.00	-11.96	355	301 Average	Vertical	

BLE_1M

High Channel (Horizontal)

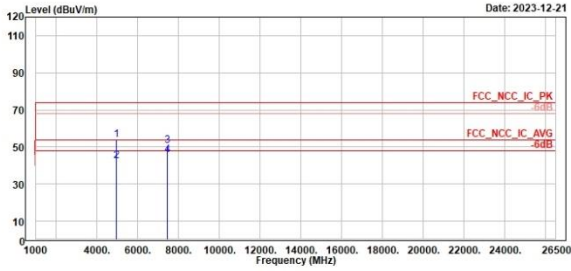
High Channel (Vertical)



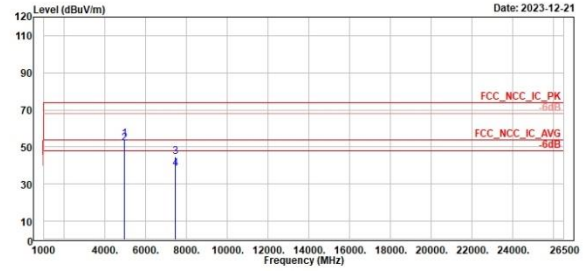
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	4960.00	53.98	61.77	-7.79	74.00	-20.02	100	61 Peak	Horizontal										
2	4960.00	42.35	50.14	-7.79	54.00	-11.65	100	61 Average	Horizontal										
3	7440.00	58.47	55.85	-5.38	74.00	-23.53	100	163 Peak	Horizontal										
4	7440.00	45.74	51.12	-5.38	54.00	-8.26	100	163 Average	Horizontal										



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	4960.00	54.18	61.97	-7.79	74.00	-19.82	300	188 Peak	Vertical										
2	4960.00	51.94	59.73	-7.79	54.00	-2.06	300	188 Average	Vertical										
3	7440.00	44.66	50.04	-5.38	74.00	-29.34	200	181 Peak	Vertical										
4	7440.00	38.23	43.61	-5.38	54.00	-15.77	200	181 Average	Vertical										

BLE_2M

Low Channel (Horizontal)

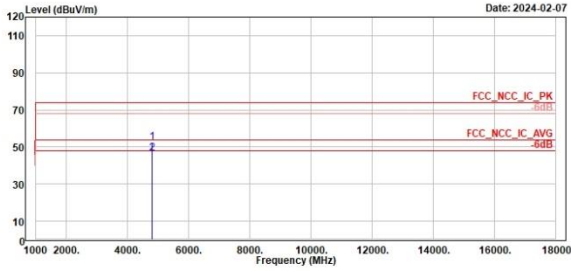
Low Channel (Vertical)



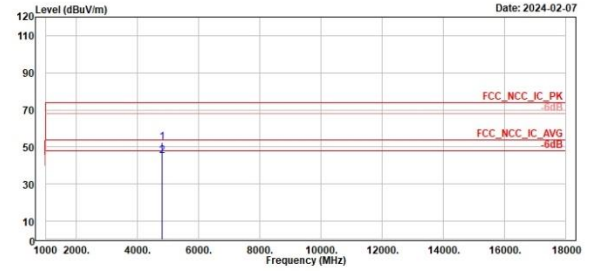
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1	2	Read Level		Limit Line		Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4888.00	52.59	60.59	-8.00	74.00	-21.41	200		54 Peak	Horizontal	
2	4888.00	46.56	54.56	-8.00	54.00	-7.44	200		54 Average	Horizontal	



1	2	Read Level		Limit Line		Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4888.00	52.69	60.69	-8.00	74.00	-21.31	114		76 Peak	Vertical	
2	4888.00	44.99	52.99	-8.00	54.00	-9.01	114		76 Average	Vertical	

BLE_2M

Middle Channel (Horizontal)

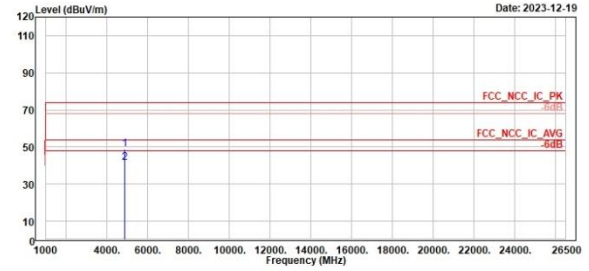
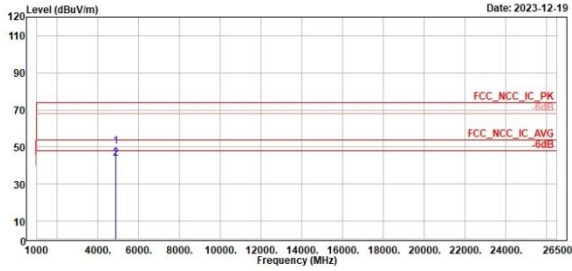
Middle Channel (Vertical)



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Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	50.22	58.14	-7.92	74.00	-23.78	100	59 Peak	Horizontal	
2	4880.00	44.01	51.93	-7.92	54.00	-9.99	100	59 Average	Horizontal	

Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	49.03	56.95	-7.92	74.00	-24.97	110	77 Peak	Vertical	
2	4880.00	41.34	49.26	-7.92	54.00	-12.66	110	77 Average	Vertical	

BLE_2M

High Channel (Horizontal)

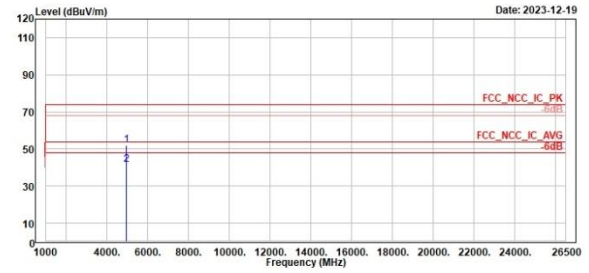
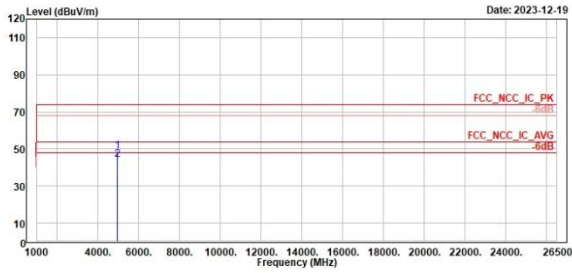
High Channel (Vertical)



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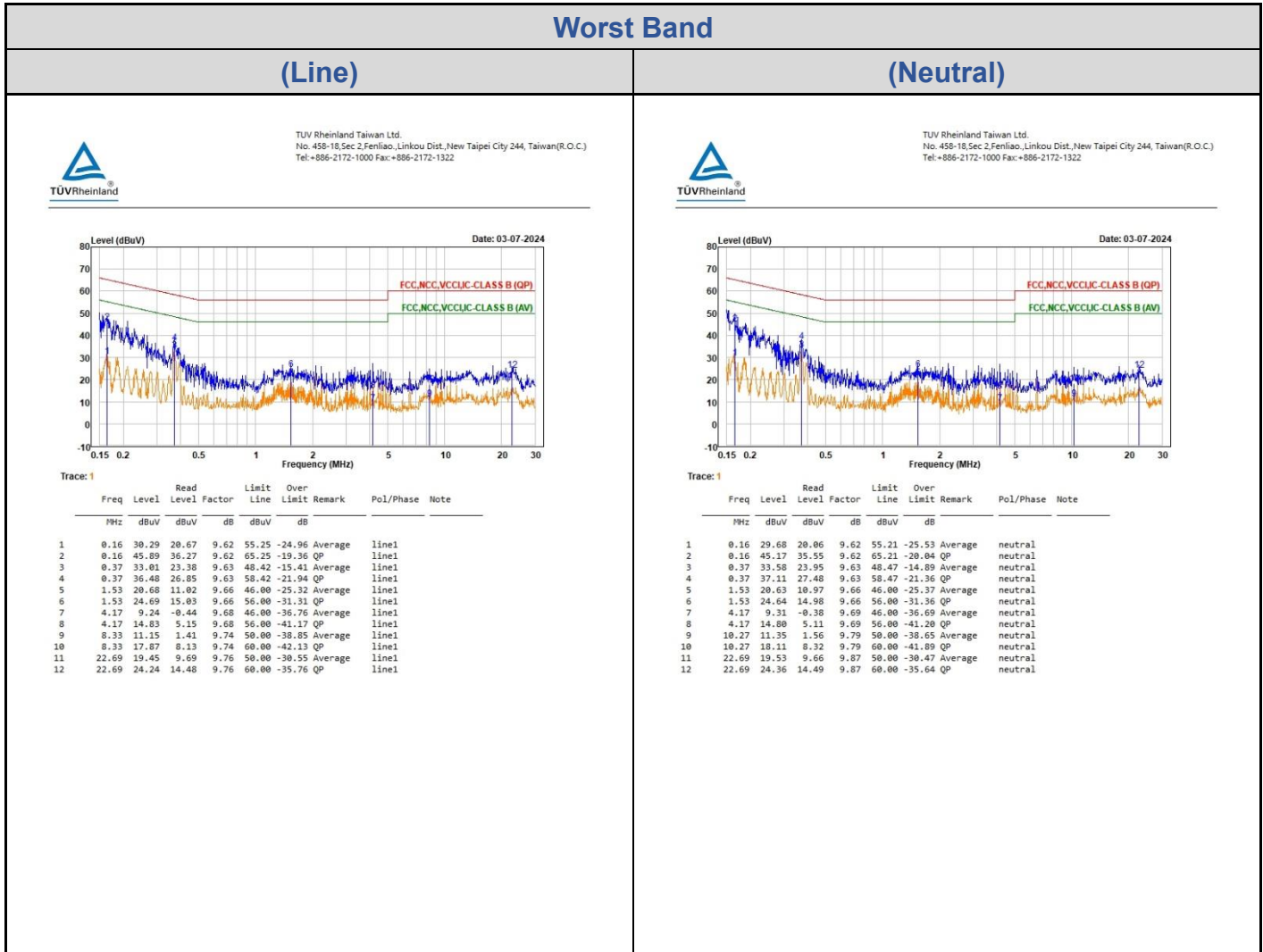
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1	2	Read Level	Level Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	49.00	56.79	-7.79	74.00	-25.00	100	165 Peak	Horizontal	
2	4956.00	44.36	52.15	-7.79	54.00	-9.64	100	165 Average	Horizontal	

1	2	Read Level	Level Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	52.07	59.86	-7.79	74.00	-21.93	200	188 Peak	Vertical	
2	4956.00	41.74	49.53	-7.79	54.00	-12.26	200	188 Average	Vertical	

Mains Conducted Emission, Tx Mode 150kHz ~ 30MHz



Ant No. 5
Band Edges, 2.31GHz ~ 2.9GHz

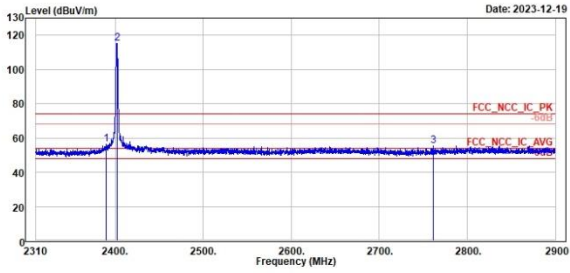
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



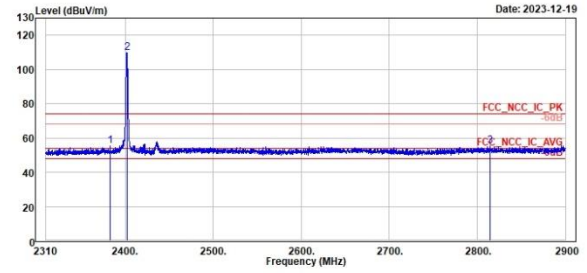
TÜV Rheinland Taiwan Ltd.
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
Tpos	Tpos	Tpos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2398.00	2402.00	2761.35
56.36	115.40	55.42
18.30	77.30	17.21
38.06	38.10	38.21
74.00	74.00	74.00
-17.64	41.40	-18.58
344	344	344
197	197	197
Peak	Peak	Peak
Horizontal	Horizontal	Horizontal



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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
Apos	Apos	Apos
Tpos	Tpos	Tpos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2382.92	2402.00	2814.21
55.35	109.61	55.60
17.31	71.51	16.95
38.04	38.10	38.65
74.00	74.00	74.00
-18.65	35.61	-18.40
355	355	355
276	276	276
Peak	Peak	Peak
Vertical	Vertical	Vertical