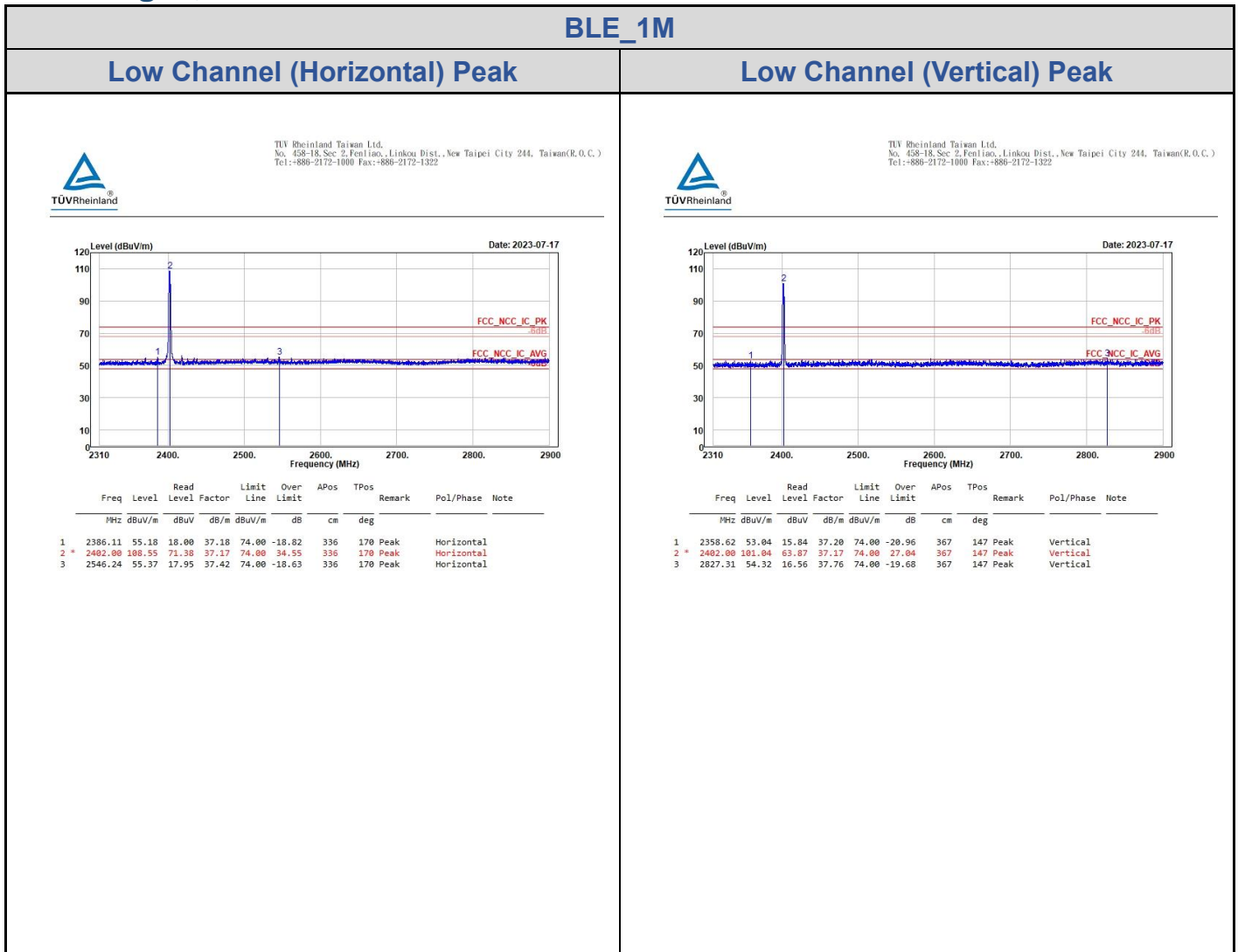


Appendix C: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for UFL Antenna

Main Source, ECC Mode for Antenna No. 5

Band Edges, 2.31GHz ~ 2.9GHz



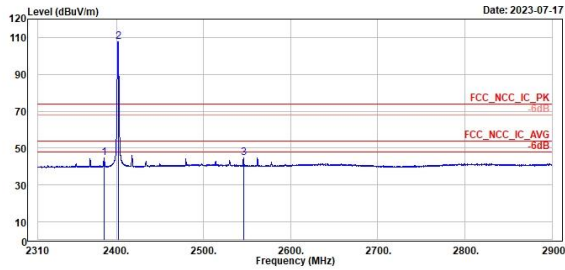
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



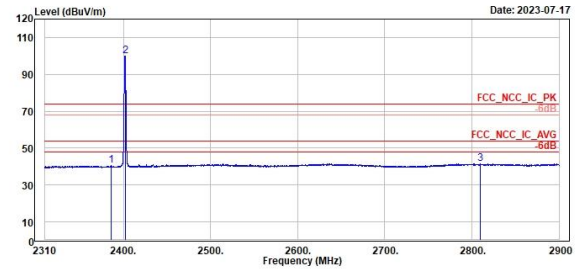
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1	2	3								
MHz	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2385.99	44.69	7.51	37.18	54.00	-9.31	336	170	Average	Horizontal	
2402.00	107.84	70.67	37.17	54.00	53.84	336	170	Average	Horizontal	
2545.88	44.79	7.37	37.42	54.00	-9.21	336	170	Average	Horizontal	



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1	2	3								
MHz	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2385.99	40.41	3.23	37.18	54.00	-13.59	367	147	Average	Vertical	
2402.00	100.11	62.94	37.17	54.00	46.11	367	147	Average	Vertical	
2809.14	41.45	3.71	37.74	54.00	-12.55	367	147	Average	Vertical	

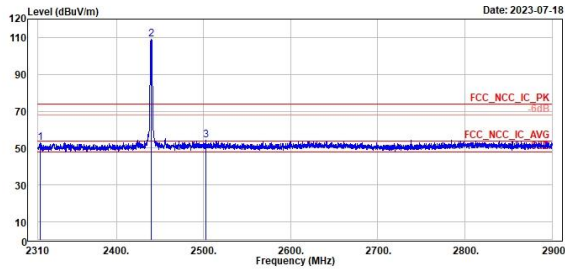
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



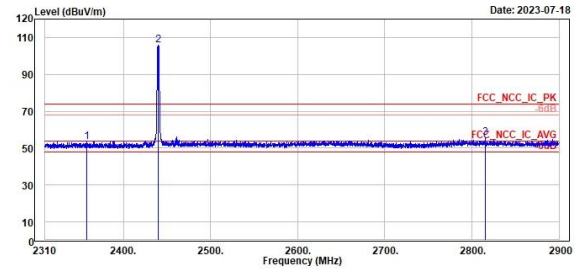
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
APos	APos	APos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2312.24	2448.00	2502.58
53.15	109.28	54.38
16.28	71.76	16.83
36.87	37.44	37.55
74.00	74.00	74.00
-20.85	35.28	-19.62
367	367	367
33	33	33
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
2358.38	2448.00	2815.04
53.45	106.01	55.68
16.25	68.57	17.93
37.20	37.44	37.75
74.00	74.00	74.00
-20.55	32.01	-18.32
319	319	319
112	112	112
Peak	Peak	Peak
Vertical	Vertical	Vertical

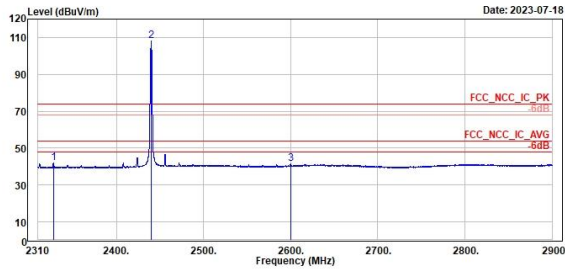
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



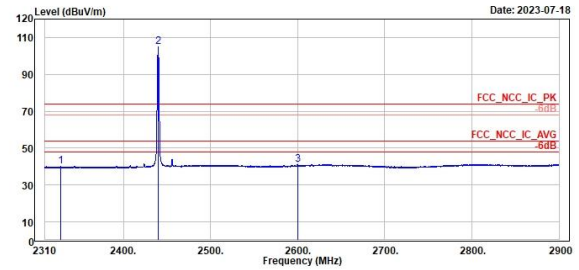
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
APos	APos	APos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2327.94	2448.00	2600.04
41.95	108.19	41.53
4.94	70.75	3.88
37.01	37.44	37.65
54.00	54.00	54.00
-12.05	54.19	-12.47
367	367	367
33	33	33
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
Level	Level	Level
Factor	Factor	Factor
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
2327.94	2448.00	2600.04
40.34	104.85	41.25
3.33	67.41	3.60
37.01	37.44	37.65
54.00	54.00	54.00
-13.66	50.85	-12.75
319	319	319
112	112	112
Average	Average	Average
Vertical	Vertical	Vertical

BLE_1M

High Channel (Horizontal) Peak

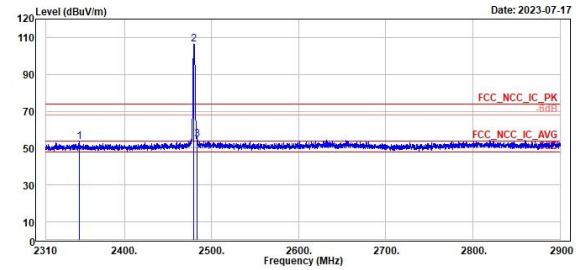
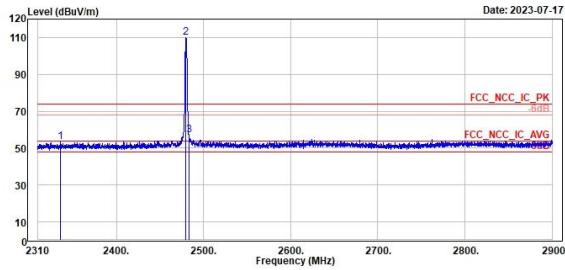
High Channel (Vertical) Peak



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2335.96	53.38	16.29	37.09	74.00	-20.62	355	355	Peak	Horizontal	
2 *	2488.00	109.76	72.22	37.54	74.00	35.76	355	355	Peak	Horizontal	
3	2483.46	57.04	19.50	37.54	74.00	-16.96	355	355	Peak	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2348.00	53.18	15.99	37.19	74.00	-20.82	305	277	Peak	Vertical	
2 *	2488.00	106.39	68.85	37.54	74.00	32.39	305	277	Peak	Vertical	
3	2483.46	54.53	16.99	37.54	74.00	-19.47	305	277	Peak	Vertical	

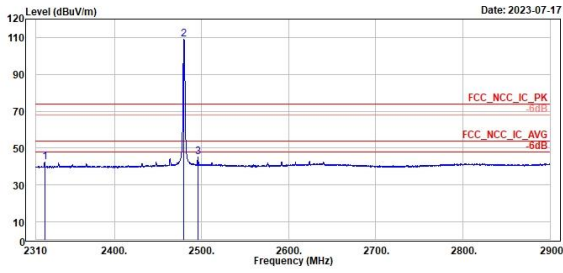
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



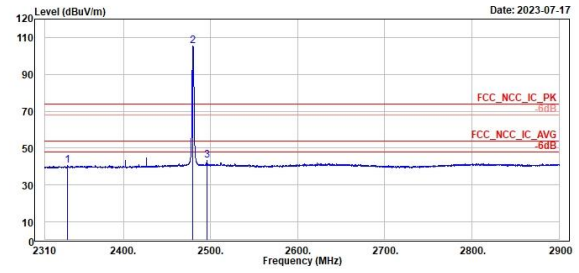
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2328.03	42.29	5.35	36.94	54.00	-11.71	355	355	Average	Horizontal		
2488.00	108.85	71.31	37.54	54.00	54.85	355	355	Average	Horizontal		
2496.09	45.17	7.61	37.56	54.00	-8.83	355	355	Average	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				
2335.96	40.49	3.40	37.09	54.00	-13.51	305	277	Average	Vertical		
2488.00	105.48	67.94	37.54	54.00	51.48	305	277	Average	Vertical		
2496.09	43.22	5.66	37.56	54.00	-10.78	305	277	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak

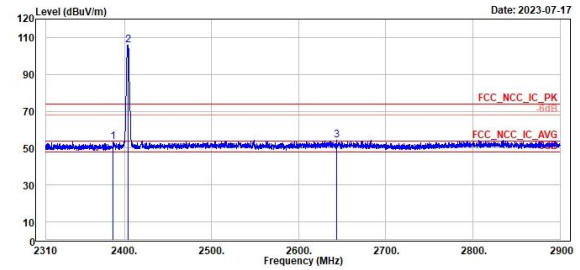
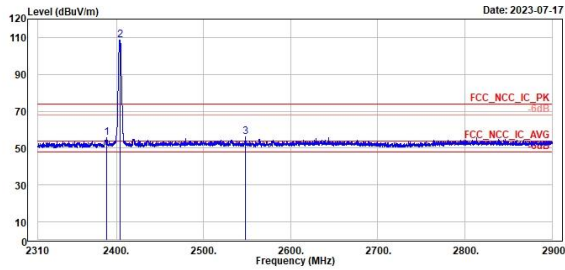
Low Channel (Vertical) Peak



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2388.71	55.50	18.33	37.17	74.00	-18.50	269	171	Peak	Horizontal	
2 *	2404.00	108.52	71.34	37.18	74.00	34.52	269	171	Peak	Horizontal	
3	2548.24	56.13	18.72	37.41	74.00	-17.87	269	171	Peak	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2387.05	53.57	16.39	37.18	74.00	-20.43	369	83	Peak	Vertical	
2 *	2404.00	105.86	68.68	37.18	74.00	31.86	369	83	Peak	Vertical	
3	2643.47	54.50	16.90	37.60	74.00	-19.50	369	83	Peak	Vertical	

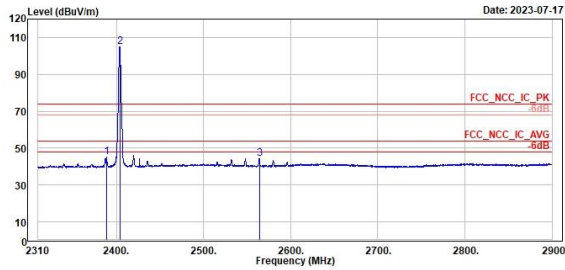
BLE_2M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



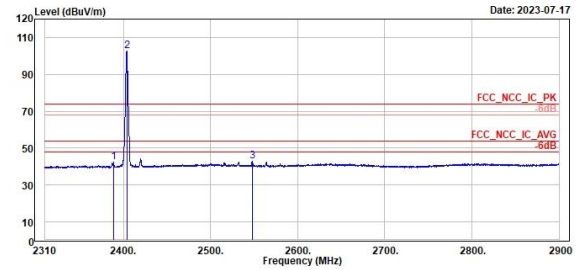
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.94	45.27	8.10	37.17	54.00	-8.73	269	171	Average	Horizontal	
2 *	2404.00	105.17	67.99	37.18	54.00	51.17	269	171	Average	Horizontal	
3	2564.17	44.29	6.81	37.48	54.00	-9.71	269	171	Average	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	2388.94	42.53	5.36	37.17	54.00	-11.47	369	83	Average	Vertical	
2 *	2404.00	102.75	65.57	37.18	54.00	48.75	369	83	Average	Vertical	
3	2548.01	42.89	5.48	37.41	54.00	-11.11	369	83	Average	Vertical	

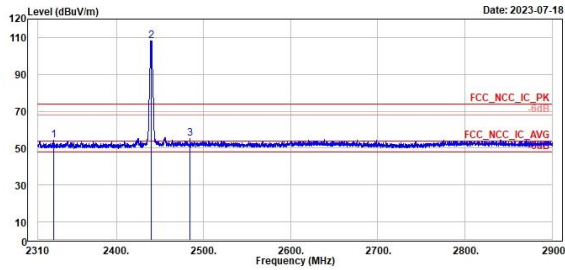
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



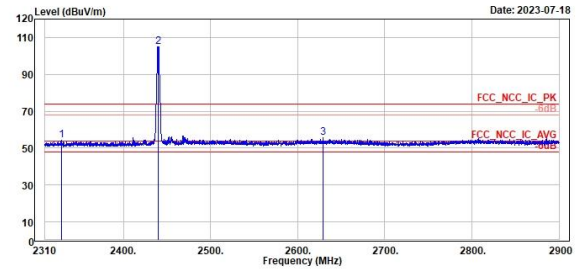
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Line	Line	Line
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
APos	APos	APos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2327.70	2448.00	2484.88
54.31	108.05	55.27
17.30	70.61	17.73
37.01	37.44	37.54
74.00	74.00	74.00
-19.69	34.05	-18.73
365	365	365
30	30	30
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
2328.76	2448.00	2629.07
54.29	108.06	55.63
17.27	70.62	18.01
37.02	37.44	37.62
74.00	74.00	74.00
-19.71	31.06	-18.37
356	356	356
115	115	115
Peak	Peak	Peak
Vertical	Vertical	Vertical

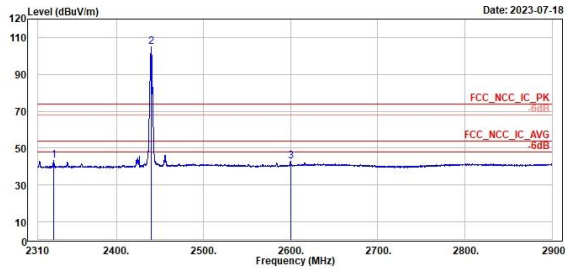
BLE_2M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



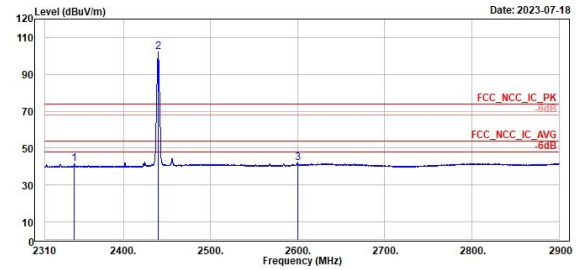
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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2328.05	43.16	6.15	37.01	54.00	-10.84	365	30	Average	Horizontal		
2448.00	104.98	67.54	37.44	54.00	50.98	365	30	Average	Horizontal		
2600.16	42.77	5.12	37.65	54.00	-11.23	365	30	Average	Horizontal		



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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2343.98	41.43	4.28	37.15	54.00	-12.57	356	115	Average	Vertical		
2448.00	102.23	64.79	37.44	54.00	48.23	356	115	Average	Vertical		
2600.04	42.20	4.55	37.65	54.00	-11.80	356	115	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak

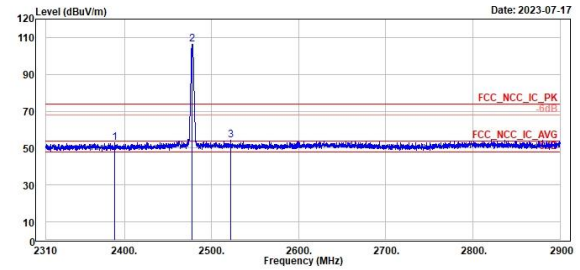
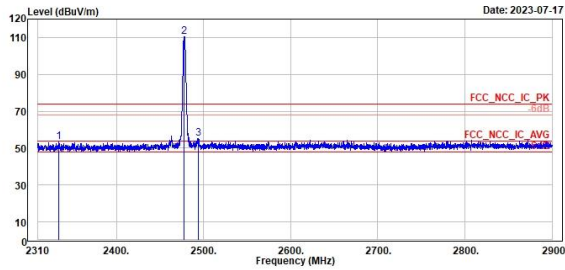
High Channel (Vertical) Peak



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2334.07	53.45	16.39	37.06	74.00	-20.55	355	8	Peak	Horizontal	
2 *	2478.00	110.48	72.94	37.54	74.00	36.48	355	8	Peak	Horizontal	
3	2493.84	55.27	17.72	37.55	74.00	-18.73	355	8	Peak	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2389.18	53.05	15.88	37.17	74.00	-20.95	351	277	Peak	Vertical	
2 *	2478.00	106.39	68.85	37.54	74.00	32.39	351	277	Peak	Vertical	
3	2521.81	54.49	17.00	37.49	74.00	-19.51	351	277	Peak	Vertical	

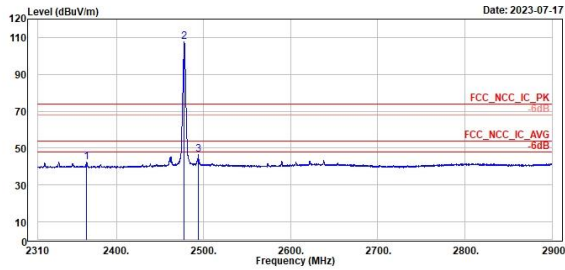
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



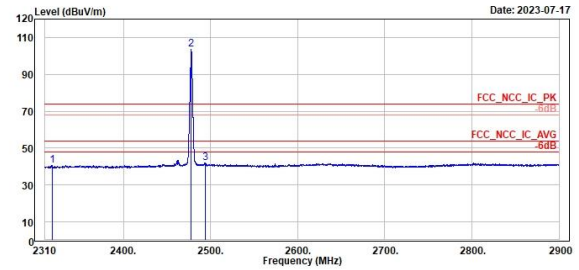
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1	2	3	Read Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2365.81	42.65	5.45	37.20	54.00	-11.35	355	8	Average	Horizontal		
2478.00	107.71	70.17	37.54	54.00	53.71	355	8	Average	Horizontal		
2493.84	46.46	8.91	37.55	54.00	-7.54	355	8	Average	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				
2318.02	40.80	3.88	36.92	54.00	-13.20	351	277	Average	Vertical		
2478.00	103.47	65.93	37.54	54.00	49.47	351	277	Average	Vertical		
2493.96	42.17	4.62	37.55	54.00	-11.83	351	277	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

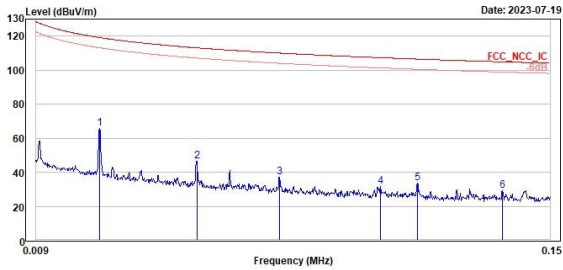
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



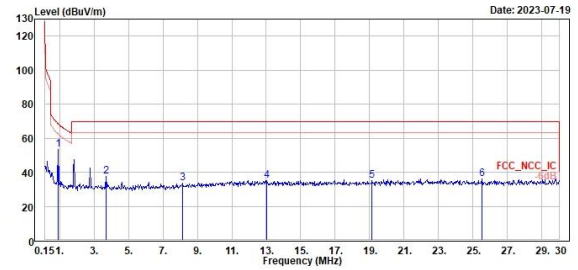
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.03	65.94	46.99	18.95	119.13	-53.19	100	110	Peak	Open	
2	0.05	46.43	27.39	19.04	113.09	-66.66	100	360	Peak	Open	
3	0.08	37.12	18.62	18.50	110.00	-72.88	100	331	Peak	Open	
4	0.10	31.61	13.68	17.93	107.30	-75.69	100	21	Peak	Open	
5	0.11	33.01	15.84	17.17	106.49	-72.68	100	360	Peak	Open	
6	0.14	29.18	11.11	18.07	104.87	-75.69	100	10	Peak	Open	



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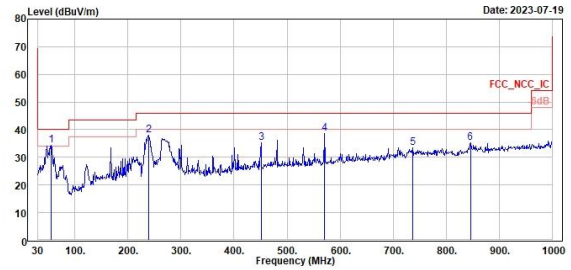
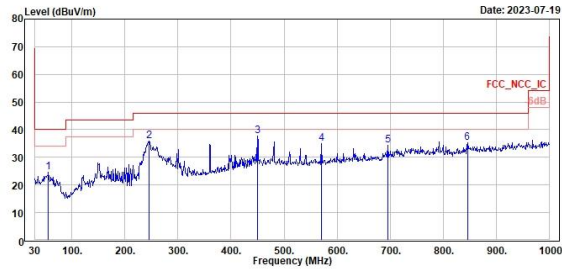


Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.93	53.59	34.56	19.03	68.27	-14.68	100	124	Peak	Open	
2	3.70	37.52	17.97	19.55	69.50	-31.98	100	124	Peak	Open	
3	8.15	33.41	12.68	20.73	69.50	-36.09	100	225	Peak	Open	
4	13.05	35.19	13.50	21.69	69.50	-34.31	100	133	Peak	Open	
5	19.13	35.13	13.92	22.11	69.50	-34.37	100	244	Peak	Open	
6	25.52	36.20	14.00	22.20	69.50	-33.30	100	59	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High 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	55.22	24.77	30.71	-5.94	40.00	-15.23	200	283 Peak	Horizontal
2	245.34	35.88	42.41	-6.53	46.00	-10.12	100	68 Peak	Horizontal
3	458.01	37.63	39.62	-1.99	46.00	-8.37	200	131 Peak	Horizontal
4	578.29	34.97	35.50	-0.53	46.00	-11.03	200	136 Peak	Horizontal
5	696.39	34.48	32.46	2.02	46.00	-11.52	200	128 Peak	Horizontal
6	845.77	35.25	31.15	4.10	46.00	-10.75	300	191 Peak	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	55.22	34.48	40.42	-5.94	40.00	-5.52	200	112 Peak	Vertical
2	239.52	37.98	44.58	-6.60	46.00	-8.02	100	224 Peak	Vertical
3	458.98	35.27	37.29	-2.02	46.00	-10.73	100	22 Peak	Vertical
4	571.26	38.63	39.16	-0.53	46.00	-7.37	200	162 Peak	Vertical
5	737.13	33.49	30.94	2.55	46.00	-12.51	200	122 Peak	Vertical
6	845.77	35.38	31.28	4.10	46.00	-10.62	205	360 Peak	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

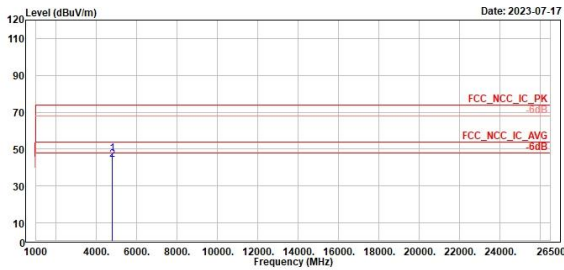
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



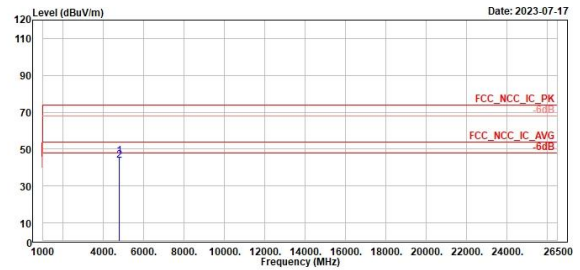
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1	4804.00	47.23	56.26	-9.03	74.00	-26.77	300	340	Peak	Horizontal
2	4804.00	44.27	53.30	-9.03	54.00	-9.73	300	340	Average	Horizontal



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1	4804.00	46.23	55.26	-9.03	74.00	-27.77	100	290	Peak	Vertical
2	4804.00	43.83	52.86	-9.03	54.00	-10.17	100	290	Average	Vertical

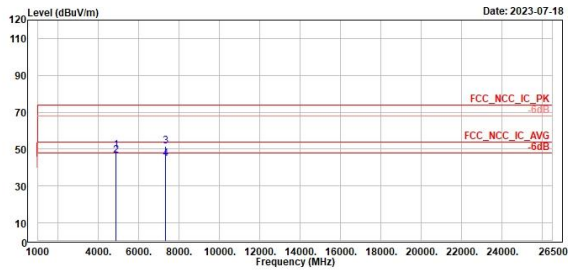
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



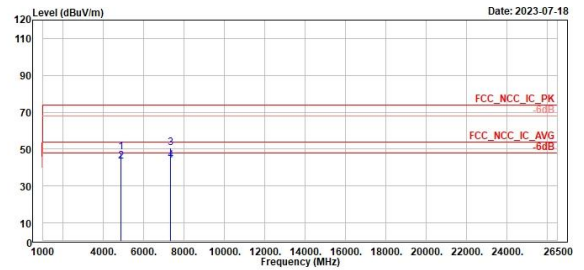
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1	2	3	4
Freq	Level	Read Level Factor	Limit Line
MHz	dBuV/m	dBuV	dB/m
4888.00	49.28	58.32	-9.04
4888.00	46.46	55.50	-9.04
7320.00	51.53	58.61	-7.08
7328.00	44.64	51.72	-7.08



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1	2	3	4
Freq	Level	Read Level Factor	Limit Line
MHz	dBuV/m	dBuV	dB/m
4888.00	48.26	57.30	-9.04
4888.00	43.52	52.56	-9.04
7320.00	50.48	57.56	-7.08
7328.00	43.95	51.03	-7.08

BLE_1M

High Channel (Horizontal)

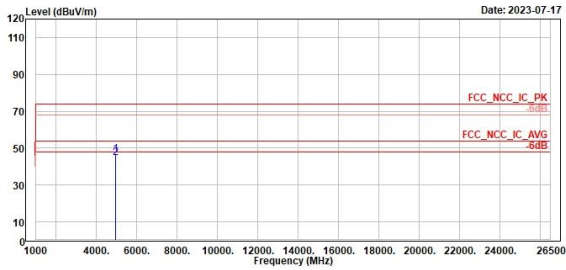
High Channel (Vertical)



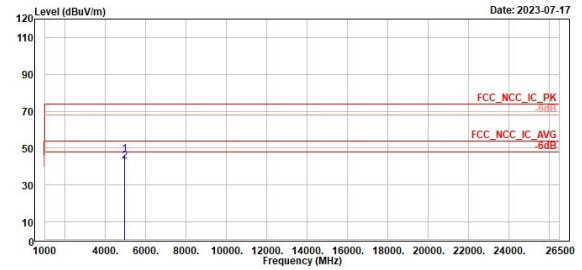
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Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4968.00	46.65	55.49	-8.84	74.00	-27.35	100	330 Peak	Horizontal	
2	4968.00	44.70	53.54	-8.84	54.00	-9.30	100	330 Average	Horizontal	



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	4968.00	46.62	55.46	-8.84	74.00	-27.38	300	300 Peak	Vertical	
2	4968.00	42.86	51.70	-8.84	54.00	-11.14	300	300 Average	Vertical	

BLE_2M

Low Channel (Horizontal)

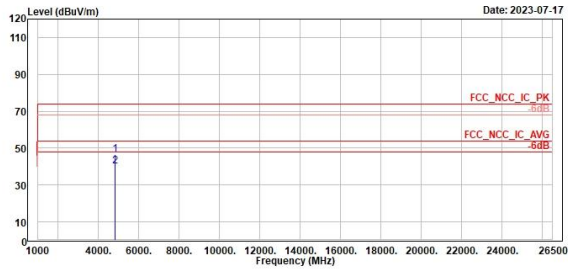
Low Channel (Vertical)



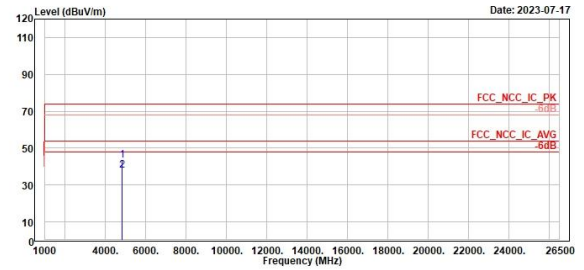
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4888.00	46.69	55.71	-9.02	74.00	-27.31	251	41 Peak	Horizontal	
2	4888.00	40.07	49.09	-9.02	54.00	-13.93	251	41 Average	Horizontal	



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	4888.00	43.39	52.41	-9.02	74.00	-30.61	100	183 Peak	Vertical	
2	4888.00	37.72	46.74	-9.02	54.00	-16.28	100	183 Average	Vertical	

BLE_2M

Middle Channel (Horizontal)

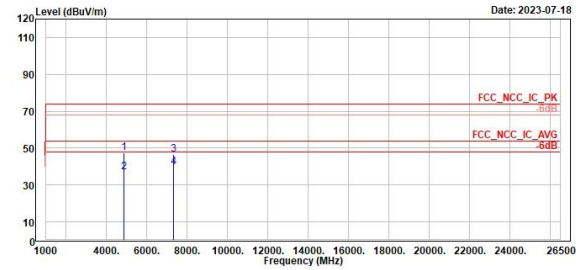
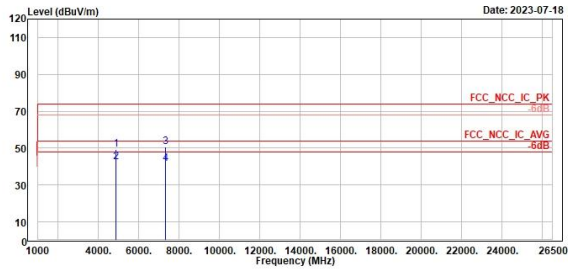
Middle Channel (Vertical)



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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	4888.00	49.22	58.26	-9.04	74.00	-24.78	303	360 Peak	Horizontal	
2	4888.00	42.24	51.28	-9.04	54.00	-11.76	303	360 Average	Horizontal	
3	7328.00	50.48	57.56	-7.08	74.00	-23.52	100	333 Peak	Horizontal	
4	7328.00	41.73	48.81	-7.08	54.00	-12.27	100	333 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	4888.00	47.59	56.63	-9.04	74.00	-26.41	300	292 Peak	Vertical	
2	4888.00	36.96	46.00	-9.04	54.00	-17.04	300	292 Average	Vertical	
3	7328.00	46.70	53.78	-7.08	74.00	-27.30	400	189 Peak	Vertical	
4	7328.00	39.82	46.90	-7.08	54.00	-14.18	400	189 Average	Vertical	

BLE_2M

High Channel (Horizontal)

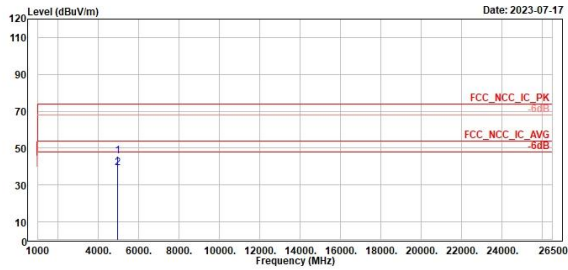
High Channel (Vertical)



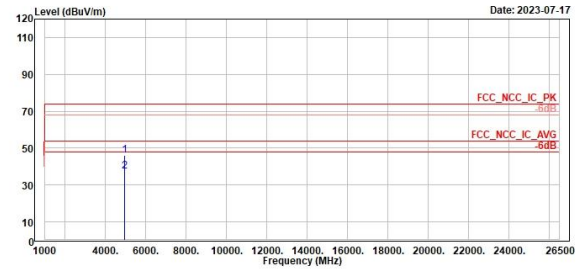
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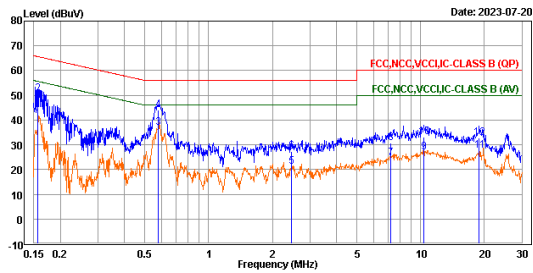


Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	45.49	54.33	-8.84	74.00	-28.51	249	360 Peak	Horizontal	
2	4956.00	39.13	47.97	-8.84	54.00	-14.87	249	360 Average	Horizontal	



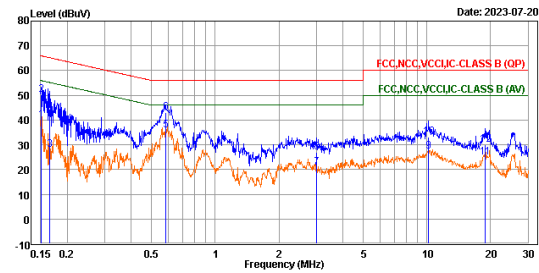
Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	46.02	54.86	-8.84	74.00	-27.98	344	73 Peak	Vertical	
2	4956.00	37.35	46.19	-8.84	54.00	-16.65	344	73 Average	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz
Worst Band
(Line)
(Neutral)

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Trace: 1

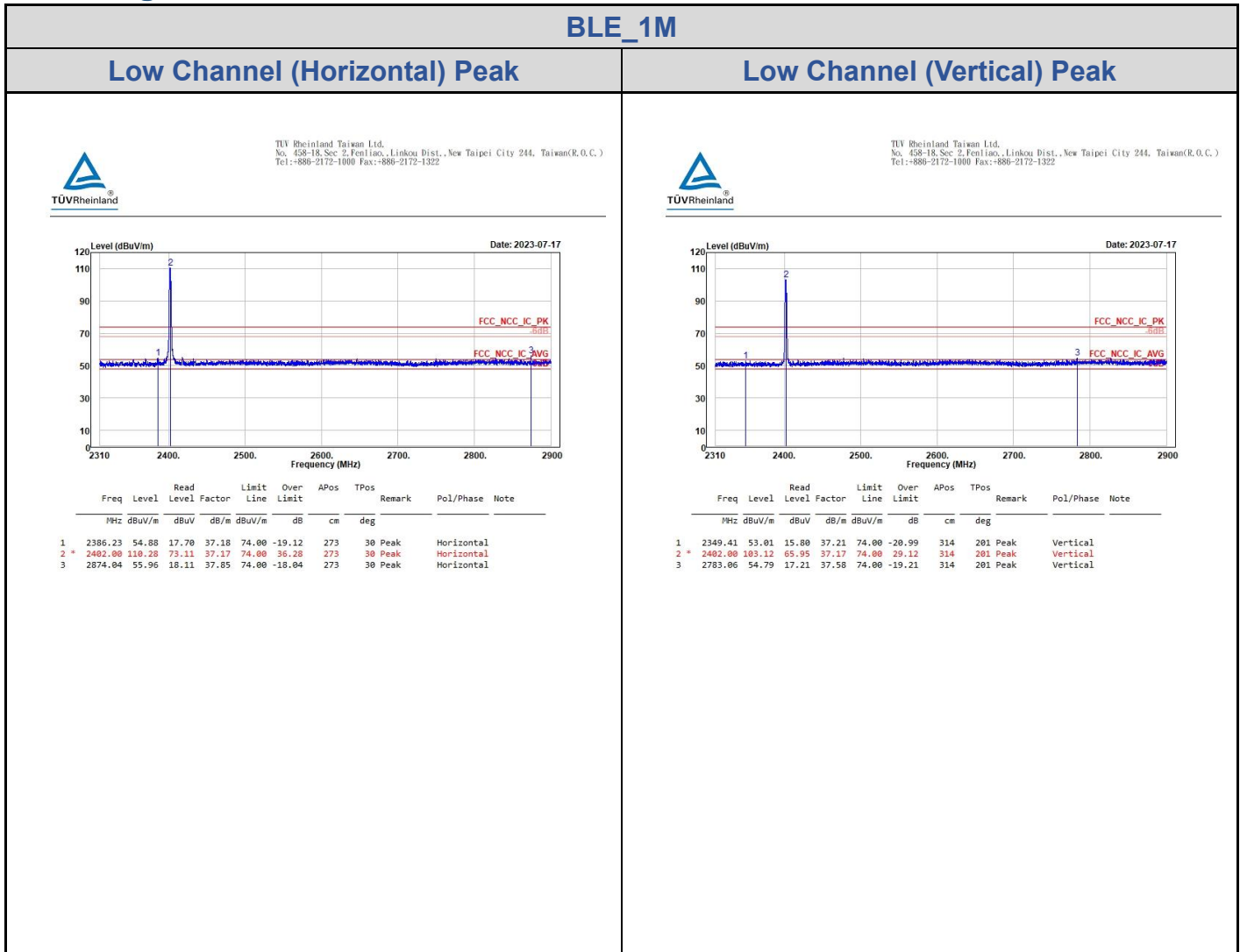
Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.16	40.30	30.68	9.62	55.63	-15.33	Average	line1	
2	0.16	50.45	40.83	9.62	65.63	-15.18	QP	line1	
3	0.58	36.90	27.27	9.63	46.00	-9.10	Average	line1	
4	0.58	44.20	34.57	9.63	56.00	-11.80	QP	line1	
5	2.47	21.30	11.64	9.66	46.00	-24.70	Average	line1	
6	2.47	27.16	17.50	9.66	56.00	-28.84	QP	line1	
7	7.21	24.64	14.91	9.73	50.00	-25.36	Average	line1	
8	7.21	30.58	20.85	9.73	60.00	-29.42	QP	line1	
9	10.32	27.03	17.27	9.76	50.00	-22.97	Average	line1	
10	10.32	33.09	23.33	9.76	60.00	-26.91	QP	line1	
11	18.87	27.48	17.71	9.77	50.00	-22.52	Average	line1	
12	18.87	32.63	22.86	9.77	60.00	-27.37	QP	line1	


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Trace: 1

Line	Freq (MHz)	Level (dBuV)	Read Level (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Remark	Pol/Phase	Note
1	0.15	39.83	30.21	9.62	55.96	-16.13	Average	neutral	
2	0.15	50.39	40.77	9.62	65.96	-15.57	QP	neutral	
3	0.17	28.12	18.50	9.62	55.17	-27.05	Average	neutral	
4	0.17	44.49	34.87	9.62	65.17	-20.68	QP	neutral	
5	0.58	35.94	26.31	9.63	46.00	-10.06	Average	neutral	
6	0.58	42.95	33.32	9.63	56.00	-13.05	QP	neutral	
7	3.00	20.96	11.28	9.68	46.00	-25.04	Average	neutral	
8	3.00	26.80	17.12	9.68	56.00	-29.20	QP	neutral	
9	10.17	27.15	17.36	9.79	50.00	-22.85	Average	neutral	
10	10.17	33.00	23.21	9.79	60.00	-27.00	QP	neutral	
11	18.78	24.77	14.91	9.86	50.00	-25.23	Average	neutral	
12	18.78	30.19	20.33	9.86	60.00	-29.81	QP	neutral	

Main Source, ECC Mode for Antenna No. 6
Band Edges, 2.31GHz ~ 2.9GHz



BLE_1M

Low Channel (Horizontal) Average

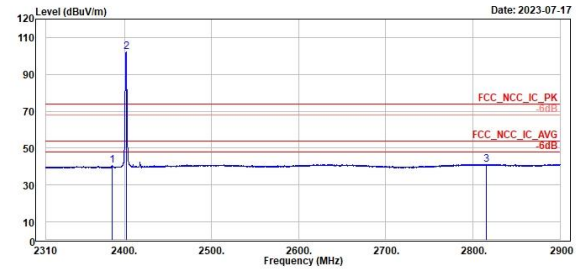
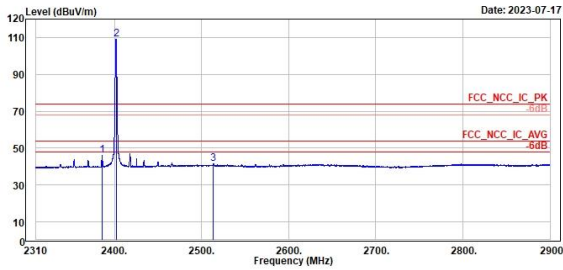
Low Channel (Vertical) Average



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1	2	3							
MHz	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2385.87	46.28	9.10	37.18	54.00	-7.72	273	30	Average	Horizontal
2402.00	109.26	72.09	37.17	54.00	55.26	273	30	Average	Horizontal
2513.79	41.60	4.09	37.51	54.00	-12.40	273	30	Average	Horizontal

1	2	3							
MHz	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
2386.23	40.83	3.65	37.18	54.00	-13.17	314	201	Average	Vertical
2402.00	102.11	64.94	37.17	54.00	48.11	314	201	Average	Vertical
2815.51	41.26	3.51	37.75	54.00	-12.74	314	201	Average	Vertical

BLE_1M

Middle Channel (Horizontal) Peak

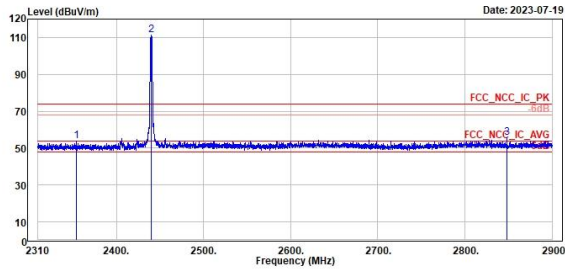
Middle Channel (Vertical) Peak



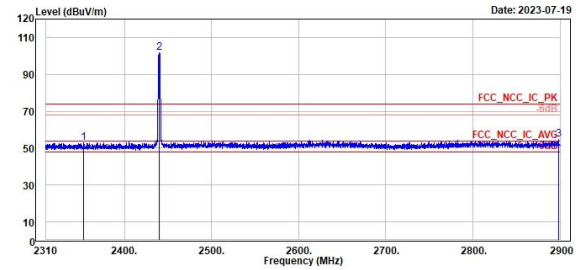
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2354.37	53.62	16.42	37.20	74.00	-20.38	327	78	Peak	Horizontal	
2 *	2448.00	111.20	73.76	37.44	74.00	37.20	327	78	Peak	Horizontal	
3	2848.32	55.54	17.76	37.78	74.00	-18.46	327	78	Peak	Horizontal	



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2353.07	53.00	15.80	37.20	74.00	-21.00	268	295	Peak	Vertical	
2 *	2448.00	101.75	64.31	37.44	74.00	27.75	268	295	Peak	Vertical	
3	2897.88	54.97	17.04	37.93	74.00	-19.03	268	295	Peak	Vertical	

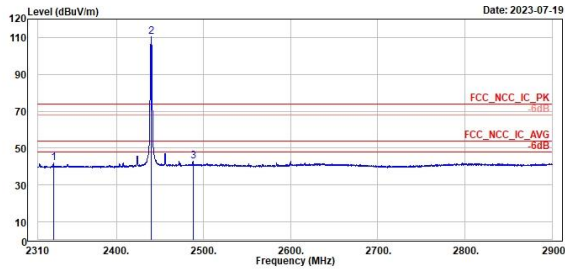
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



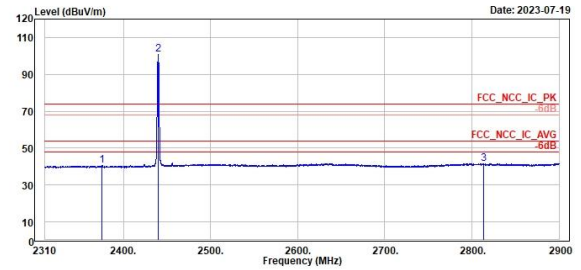
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1	2	3								
Level	Level	Level								
Factor	Factor	Factor								
Limit	Limit	Limit								
Over	Over	Over								
Limit	Limit	Limit								
APos	APos	APos								
TPos	TPos	TPos								
Remark	Remark	Remark								
Pol/Phase	Pol/Phase	Pol/Phase								
Note	Note	Note								
MHz	dBuV/m	dBuV/m								
dBuV	dB/m	dBuV/m								
dB	cm	deg								
2327.94	41.80	4.79	37.01	54.00	-12.20	327	78	Average	Horizontal	
2448.00	110.24	72.80	37.44	54.00	56.24	327	78	Average	Horizontal	
2487.94	42.92	5.37	37.55	54.00	-11.08	327	78	Average	Horizontal	



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1	2	3								
Level	Level	Level								
Factor	Factor	Factor								
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								
MHz	dBuV/m	dBuV/m								
dBuV	dB/m	dBuV/m								
dB	cm	deg								
2375.49	40.39	3.20	37.19	54.00	-13.61	268	295	Average	Vertical	
2448.00	100.83	63.39	37.44	54.00	46.83	268	295	Average	Vertical	
2813.74	41.58	3.83	37.75	54.00	-12.42	268	295	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak

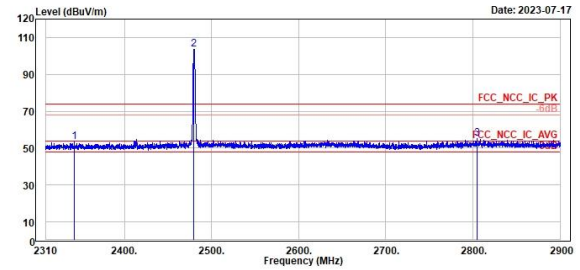
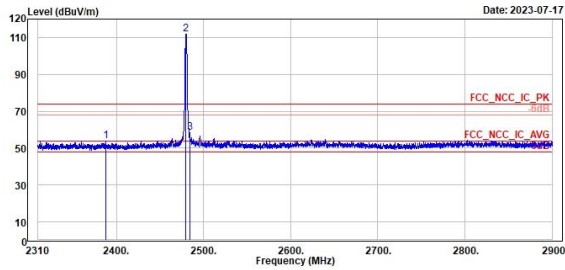
High Channel (Vertical) Peak



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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	2388.23	53.67	16.50	37.17	74.00	-20.33	329	204 Peak	Horizontal		
2 *	2488.00	111.63	74.09	37.54	74.00	37.63	329	204 Peak	Horizontal		
3	2484.05	58.31	20.77	37.54	74.00	-15.69	329	204 Peak	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	2342.57	53.20	16.06	37.14	74.00	-20.80	253	296 Peak	Vertical		
2 *	2488.00	103.68	66.14	37.54	74.00	29.68	253	296 Peak	Vertical		
3	2804.42	55.02	17.28	37.74	74.00	-18.98	253	296 Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Peak

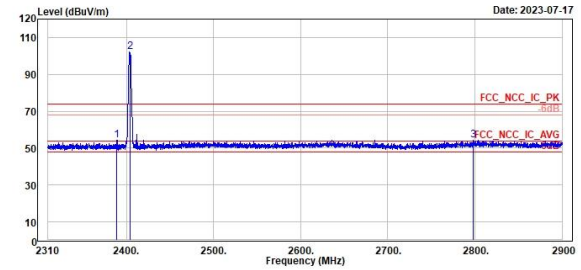
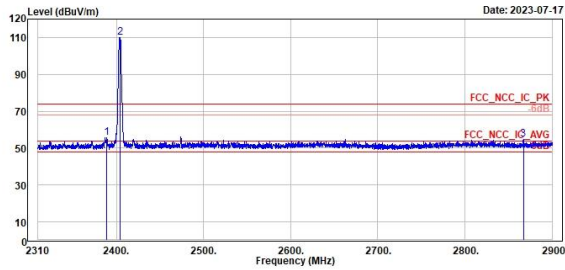
Low Channel (Vertical) Peak



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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	2389.18	55.76	18.59	37.17	74.00	-18.24	219	28	Peak	Horizontal	
2 *	2404.00	110.02	72.84	37.18	74.00	36.02	219	28	Peak	Horizontal	
3	2866.96	54.74	16.91	37.83	74.00	-19.26	219	28	Peak	Horizontal	

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	2389.30	54.34	17.17	37.17	74.00	-19.66	384	45	Peak	Vertical	
2 *	2404.00	102.04	64.86	37.18	74.00	28.04	384	45	Peak	Vertical	
3	2790.40	54.24	16.52	37.72	74.00	-19.76	384	45	Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average

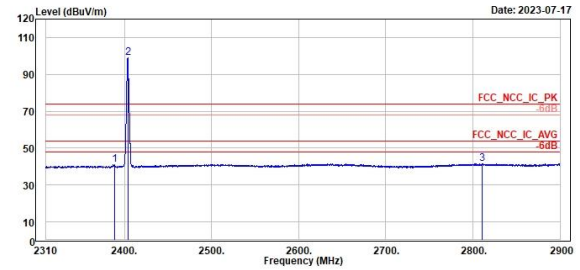
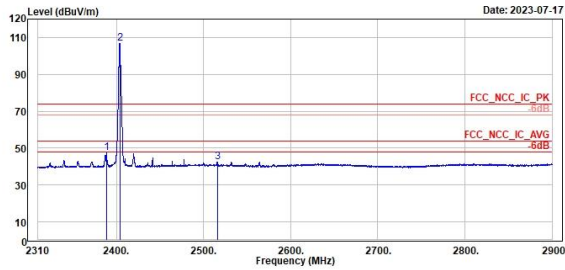
Low Channel (Vertical) Average



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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		
2388.82	47.41	10.24	37.17	54.00	-6.59	219	28 Average	Horizontal	
2404.00	106.99	69.81	37.18	54.00	52.99	219	28 Average	Horizontal	
2515.91	42.62	5.11	37.51	54.00	-11.38	219	28 Average	Horizontal	

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		
2388.71	41.25	4.08	37.17	54.00	-12.75	384	45 Average	Vertical	
2404.00	99.24	62.06	37.18	54.00	45.24	384	45 Average	Vertical	
2810.67	41.47	3.72	37.75	54.00	-12.53	384	45 Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak

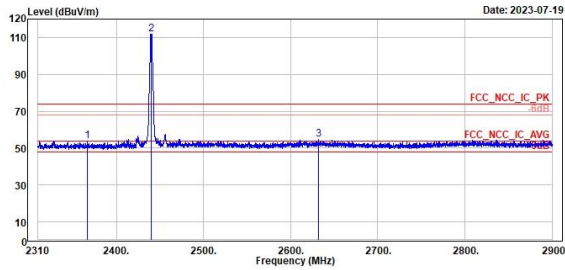
Middle Channel (Vertical) Peak



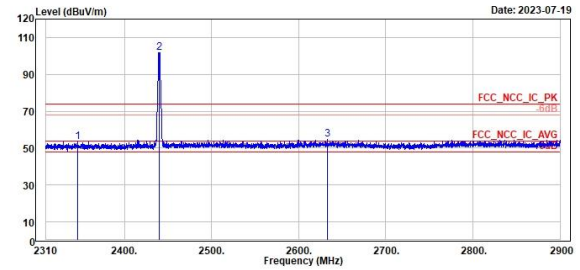
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2366.88	53.93	16.73	37.20	74.00	-20.07	327	74	Peak	Horizontal	
2 *	2448.00	111.72	74.28	37.44	74.00	37.72	327	74	Peak	Horizontal	
3	2632.26	54.98	17.28	37.62	74.00	-19.10	327	74	Peak	Horizontal	



Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2346.23	53.39	16.21	37.18	74.00	-20.61	267	296	Peak	Vertical	
2 *	2448.00	181.76	64.32	37.44	74.00	27.76	267	296	Peak	Vertical	
3	2632.97	54.69	17.08	37.61	74.00	-19.31	267	296	Peak	Vertical	

BLE_2M

High Channel (Horizontal) Peak

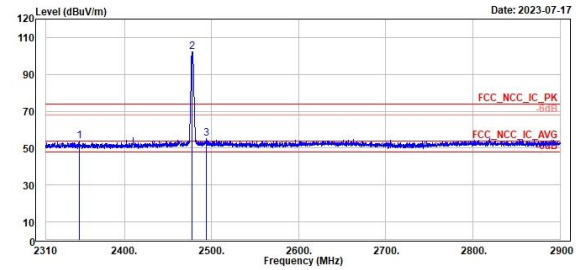
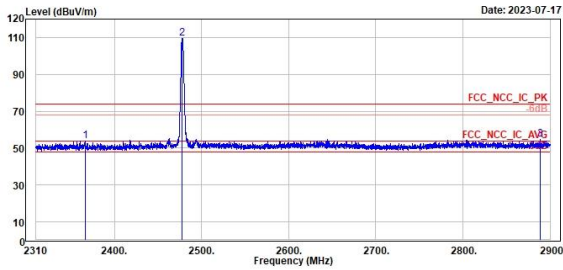
High Channel (Vertical) Peak



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2366.29	53.84	16.64	37.20	74.00	-20.16	365	324	Peak	Horizontal	
2 *	2478.00	109.68	72.14	37.54	74.00	35.68	365	324	Peak	Horizontal	
3	2888.32	54.95	17.05	37.90	74.00	-19.05	365	324	Peak	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2348.70	53.69	16.49	37.20	74.00	-20.31	294	198	Peak	Vertical	
2 *	2478.00	102.29	64.75	37.54	74.00	28.29	294	198	Peak	Vertical	
3	2494.32	55.27	17.72	37.55	74.00	-18.73	294	198	Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average

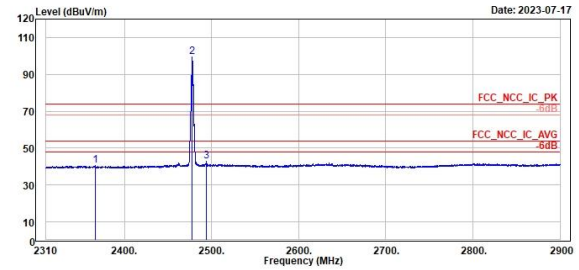
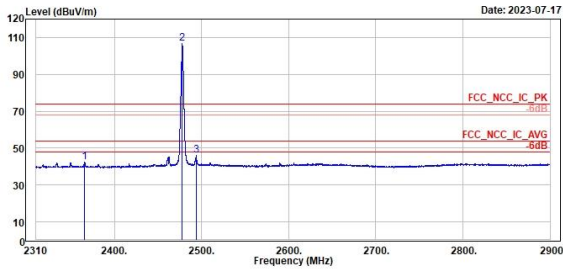
High Channel (Vertical) Average



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1	2	3
Level	Level	Level
Factor	Factor	Factor
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
2365.93	2478.00	2494.08
42.51	106.79	46.15
5.31	69.25	8.60
37.20	37.54	37.55
54.00	54.00	54.00
-11.49	52.79	-7.85
365	365	365
324	324	324
Average	Average	Average
Horizontal	Horizontal	Horizontal

1	2	3
Level	Level	Level
Factor	Factor	Factor
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
2366.40	2478.00	2493.84
40.40	99.45	42.77
3.20	61.91	5.22
37.20	37.54	37.55
54.00	54.00	54.00
-13.60	45.45	-11.23
294	294	294
198	198	198
Average	Average	Average
Vertical	Vertical	Vertical

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

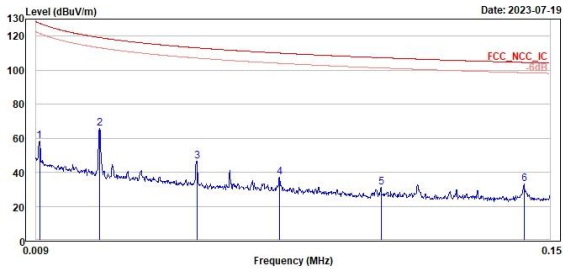
BLE_1M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



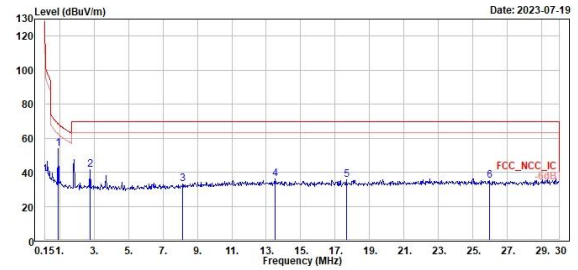
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	58.11	40.39	17.72	127.60	-69.49	100	135 Peak	Open
2	0.03	65.97	47.02	18.95	119.13	-53.16	100	121 Peak	Open
3	0.05	46.57	27.53	19.04	113.09	-66.52	100	121 Peak	Open
4	0.08	36.85	18.35	18.50	118.00	-73.15	100	211 Peak	Open
5	0.10	30.97	13.04	17.93	107.29	-76.32	100	135 Peak	Open
6	0.14	33.12	15.03	18.09	104.50	-71.38	100	126 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	0.93	53.99	34.96	19.03	68.27	-14.28	100	121 Peak	Open
2	2.78	41.69	22.14	19.55	69.50	-27.81	100	121 Peak	Open
3	8.15	33.20	12.47	20.73	69.50	-36.30	100	220 Peak	Open
4	13.49	36.11	14.38	21.73	69.50	-33.39	100	216 Peak	Open
5	17.64	35.38	13.37	22.01	69.50	-34.12	100	201 Peak	Open
6	25.97	35.08	12.87	22.21	69.50	-34.42	100	120 Peak	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

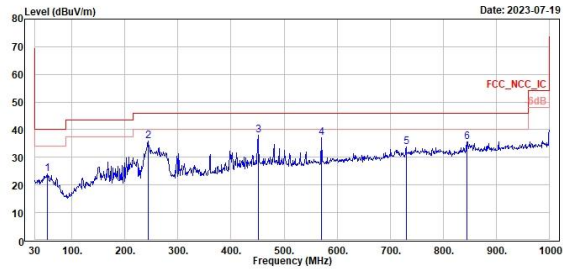
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



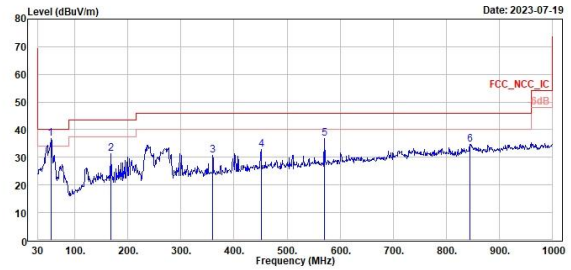
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Peak	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	53.28	23.92	29.58	-5.66	40.00	-16.08	123	360	Peak	Horizontal	
2	243.40	35.75	42.30	-6.55	46.00	-10.25	100	256	Peak	Horizontal	
3	458.98	38.17	40.19	-2.02	46.00	-7.83	300	113	Peak	Horizontal	
4	578.29	37.04	37.57	-0.53	46.00	-8.96	100	96	Peak	Horizontal	
5	738.34	33.64	31.47	2.17	46.00	-12.36	100	110	Peak	Horizontal	
6	844.80	35.69	31.57	4.12	46.00	-10.31	101	360	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	54.25	36.78	42.52	-5.74	40.00	-3.22	100	243	Peak	Vertical	
2	167.74	31.31	37.03	-5.72	43.50	-12.19	100	58	Peak	Vertical	
3	359.80	30.73	34.29	-3.56	46.00	-15.27	100	189	Peak	Vertical	
4	458.98	32.89	34.91	-2.02	46.00	-13.11	100	360	Peak	Vertical	
5	571.26	36.83	37.36	-0.53	46.00	-9.17	200	155	Peak	Vertical	
6	844.80	34.81	30.69	4.12	46.00	-11.19	300	262	Peak	Vertical	