

Appendix B: Test Results of Radiated Emissions & Mains Conducted Emission Test

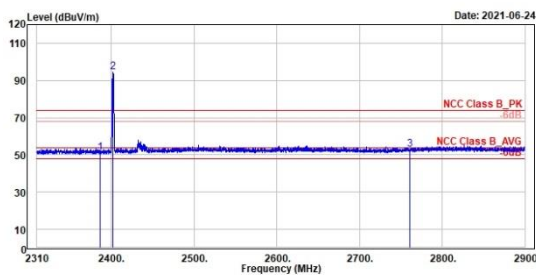
Band Edges, 2.31GHz ~ 2.9GHz

BLE_1M

Low Channel (Horizontal) Peak



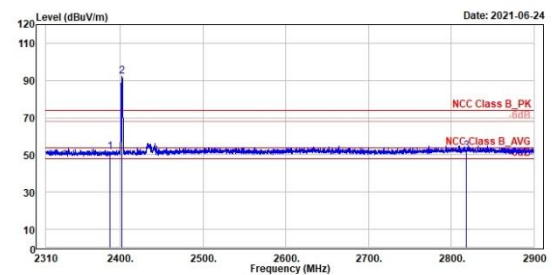
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.00	51.26	13.96	37.30	74.00	-22.74	146	215	Peak	Horizontal	
2 *	2402.00	94.28	56.96	37.32	74.00	20.28	146	215	Peak	Horizontal	
3	2761.01	52.79	14.74	38.05	74.00	-21.21	146	215	Peak	Horizontal	



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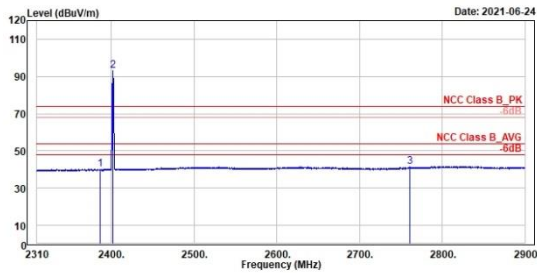
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.50	51.45	14.15	37.30	74.00	-22.55	316	130	Peak	Vertical	
2 *	2402.00	92.04	54.72	37.32	74.00	18.04	316	130	Peak	Vertical	
3	2818.49	51.85	13.65	38.20	74.00	-22.15	316	130	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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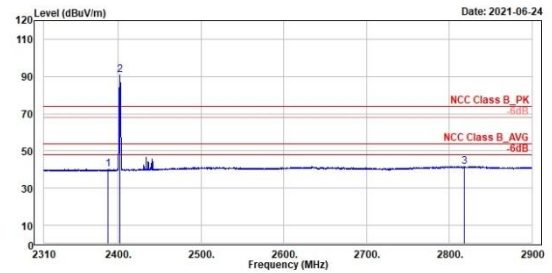


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.00	40.36	3.06	37.30	54.00	-13.64	146	215	Average	Horizontal	
2 *	2402.00	95.22	55.90	37.32	54.00	39.22	146	215	Average	Horizontal	
3	2761.01	41.69	3.64	38.05	54.00	-12.31	146	215	Average	Horizontal	

Low Channel (Vertical) Average



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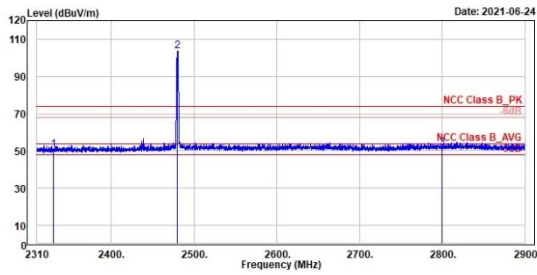
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.50	40.02	2.72	37.30	54.00	-13.98	316	130	Average	Vertical	
2 *	2402.00	90.96	53.64	37.32	54.00	36.96	316	130	Average	Vertical	
3	2818.49	41.58	3.38	38.20	54.00	-12.42	316	130	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



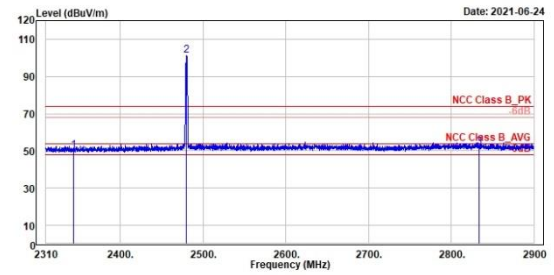
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2329.55	50.73	13.62	37.11	74.00	-23.27	222	201	Peak	Horizontal		
2 *	2480.00	105.73	66.04	37.69	74.00	29.73	222	201	Peak	Horizontal		
3	2800.12	51.48	13.30	38.18	74.00	-22.52	222	201	Peak	Horizontal		



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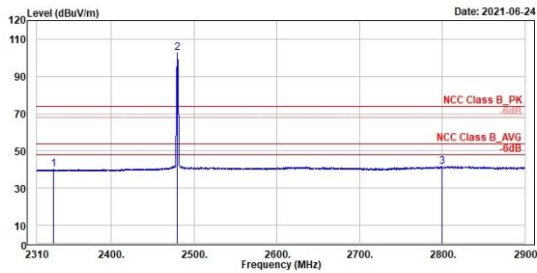
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2342.98	50.30	13.09	37.21	74.00	-23.70	381	136	Peak	Vertical		
2 *	2480.00	101.25	63.56	37.69	74.00	27.25	381	136	Peak	Vertical		
3	2834.16	52.04	13.82	38.22	74.00	-21.96	381	136	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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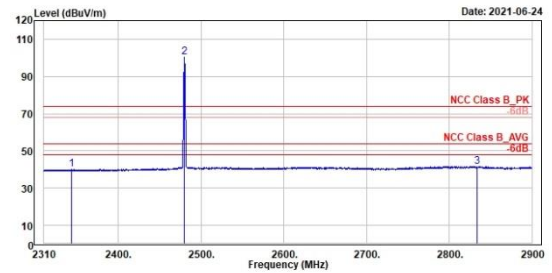


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2329.55	39.98	2.87	37.11	54.00	-14.02	222	201	Average	Horizontal	
2 *	2480.00	102.73	65.04	37.69	54.00	48.73	222	201	Average	Horizontal	
3	2800.12	41.59	3.41	38.18	54.00	-12.41	222	201	Average	Horizontal	

High Channel (Vertical) Average

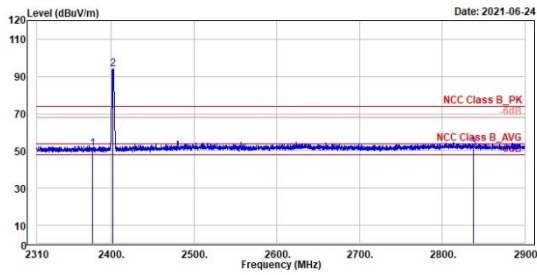
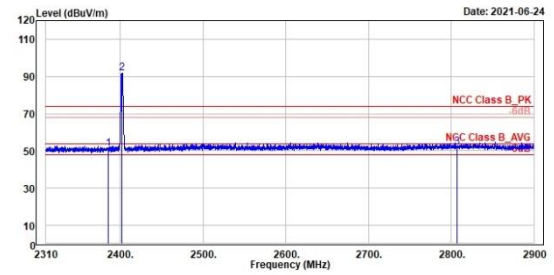


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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2342.98	40.10	2.89	37.21	54.00	-13.90	381	136	Average	Vertical	
2 *	2480.00	100.25	62.56	37.69	54.00	46.25	381	136	Average	Vertical	
3	2834.16	41.54	3.32	38.22	54.00	-12.46	381	136	Average	Vertical	

BLE_2M
Low Channel (Horizontal) Peak

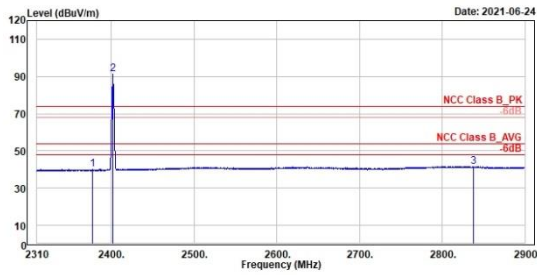
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BLE_2M

Low Channel (Horizontal) Average



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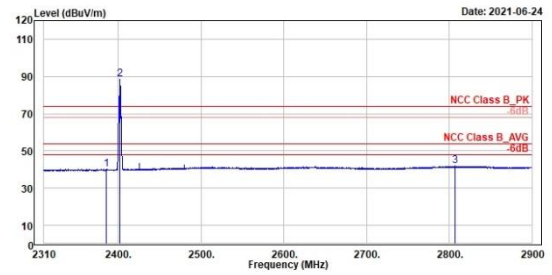


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2377.02	40.07	2.78	37.29	54.00	-13.93	144	215	Average	Horizontal	
2 *	2402.00	91.07	53.75	37.32	54.00	37.07	144	215	Average	Horizontal	
3	2838.28	41.59	3.37	38.22	54.00	-12.41	144	215	Average	Horizontal	

Low Channel (Vertical) Average



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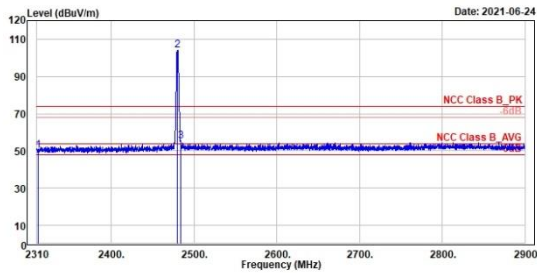
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.62	40.28	2.98	37.30	54.00	-13.72	314	132	Average	Vertical	
2 *	2402.00	88.64	51.32	37.32	54.00	34.64	314	132	Average	Vertical	
3	2806.95	41.78	3.59	38.19	54.00	-12.22	314	132	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



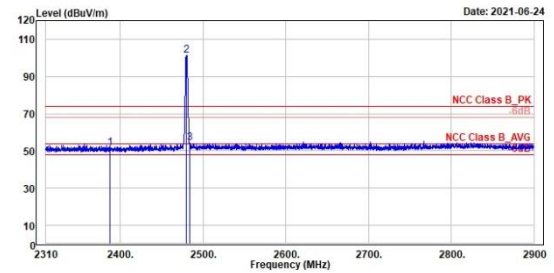
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2311.65	50.42	13.44	36.98	74.00	-23.58	178	198	Peak	Horizontal	
2 *	2480.00	103.83	66.14	37.69	74.00	29.83	178	198	Peak	Horizontal	
3	2483.50	55.40	17.69	37.71	74.00	-18.60	178	198	Peak	Horizontal	



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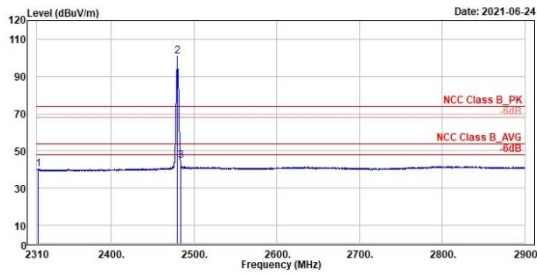
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2387.39	51.66	14.36	37.30	74.00	-22.34	381	136	Peak	Vertical	
2 *	2480.00	101.14	63.45	37.69	74.00	27.14	381	136	Peak	Vertical	
3	2483.50	54.43	16.72	37.71	74.00	-19.57	381	136	Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



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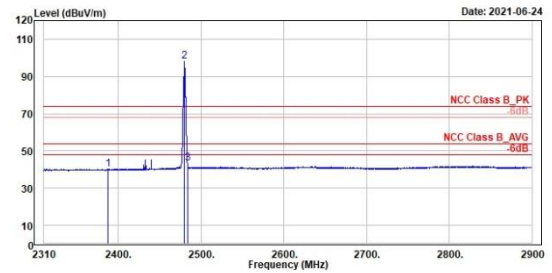


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2311.65	40.28	3.30	36.98	54.00	-13.72	178	198	Average	Horizontal	
2 *	2480.00	100.75	63.06	37.69	54.00	46.75	178	198	Average	Horizontal	
3	2483.50	44.64	6.93	37.71	54.00	-9.36	178	198	Average	Horizontal	

High Channel (Vertical) Average



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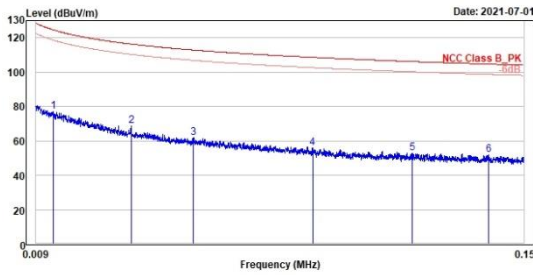


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.39	40.14	2.84	37.30	54.00	-13.86	381	136	Average	Vertical	
2 *	2480.00	97.90	60.21	37.69	54.00	43.90	381	136	Average	Vertical	
3	2483.50	43.54	5.83	37.71	54.00	-10.46	381	136	Average	Vertical	

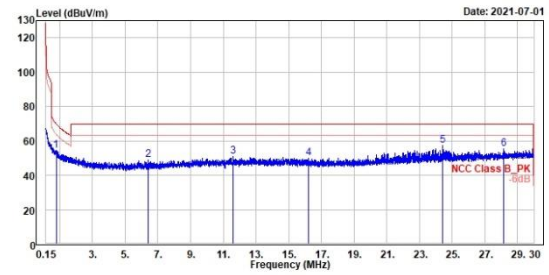
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz



	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	0.01	77.34	2.20	75.14	124.70	-47.36	100	199	QP	Open		
2	0.04	68.66	1.55	67.11	116.34	-47.68	100	3	QP	Open		
3	0.05	61.71	-1.52	63.23	112.88	-51.17	100	164	QP	Open		
4	0.09	55.69	-2.98	58.67	108.61	-52.92	100	331	QP	Open		
5	0.12	52.90	-3.56	56.46	106.18	-53.28	100	227	QP	Open		
6	0.14	51.86	-3.65	55.51	104.69	-52.83	100	34	QP	Open		



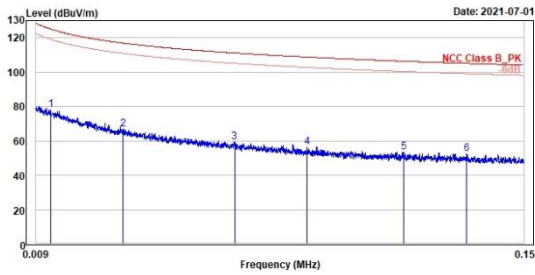
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.77	54.55	11.73	42.82	69.83	-15.28	100	161	QP	Open		
2	6.39	48.91	12.03	36.88	69.50	-20.59	100	332	QP	Open		
3	11.61	50.72	12.53	38.19	69.50	-18.78	100	328	QP	Open		
4	16.24	49.69	11.83	37.86	69.50	-19.81	100	343	QP	Open		
5	24.43	57.28	17.57	39.71	69.50	-12.22	100	148	QP	Open		
6	28.18	55.55	14.07	41.48	69.50	-13.95	100	98	QP	Open		

BLE_2M

High Channel (Close) 9kHz~150kHz



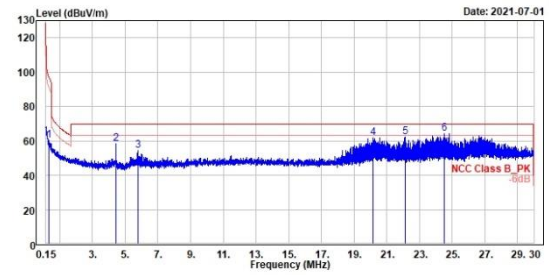
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	77.99	2.58	75.41	125.14	-47.15	100	360	QP	Close	
2	0.03	66.61	-1.06	67.67	116.90	-50.29	100	146	QP	Close	
3	0.07	59.16	-2.49	61.65	111.15	-51.99	100	78	QP	Close	
4	0.09	56.60	-2.28	58.88	108.77	-52.17	100	344	QP	Close	
5	0.12	53.39	-3.17	56.56	106.36	-52.97	100	333	QP	Close	
6	0.13	52.49	-3.29	55.78	105.09	-52.60	100	290	QP	Close	



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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	0.32	60.15	11.04	48.21	97.41	-37.26	100	84	QP	Close	
2	4.43	58.52	22.00	36.52	69.50	-10.98	100	296	QP	Close	
3	5.80	54.42	17.75	36.67	69.50	-15.08	100	279	QP	Close	
4	20.15	61.55	23.88	37.67	69.50	-7.95	100	194	QP	Close	
5	22.12	62.50	23.89	38.61	69.50	-7.00	100	52	QP	Close	
6	24.51	64.16	24.42	39.74	69.50	-5.34	100	272	QP	Close	

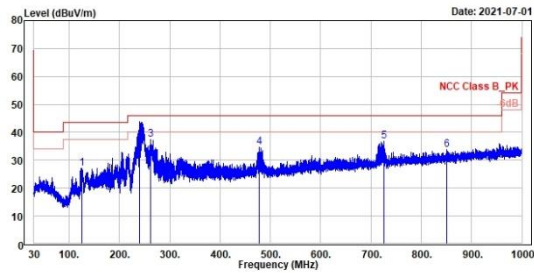
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M

High Channel (Horizontal)



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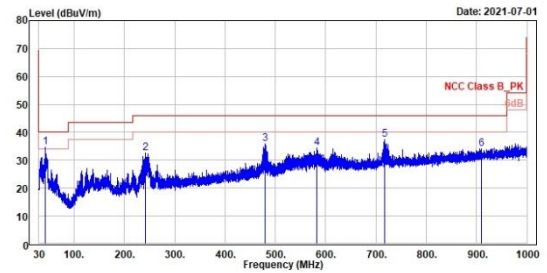


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	125.55	27.12	34.77	-7.65	43.50	-16.38	100	330	QP	Horizontal		
2	240.01	34.34	41.00	-6.66	46.00	-11.66	100	138	QP	Horizontal		
3	261.73	37.48	43.56	-6.08	46.00	-8.52	100	117	QP	Horizontal		
4	477.95	34.53	36.25	-1.72	46.00	-11.47	100	103	QP	Horizontal		
5	726.36	36.84	34.83	2.01	46.00	-9.16	100	170	QP	Horizontal		
6	858.72	33.83	29.70	4.13	46.00	-12.17	100	93	QP	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	42.42	34.70	40.46	-5.76	46.00	-5.30	100	149	QP	Vertical		
2	241.36	32.59	39.21	-6.62	46.00	-13.41	100	288	QP	Vertical		
3	479.30	35.64	37.54	-1.70	46.00	-10.16	100	193	QP	Vertical		
4	582.61	34.35	34.36	-0.01	46.00	-11.65	100	146	QP	Vertical		
5	718.02	37.37	35.46	1.91	46.00	-8.63	100	148	QP	Vertical		
6	909.40	34.14	29.11	5.03	46.00	-11.86	100	52	QP	Vertical		

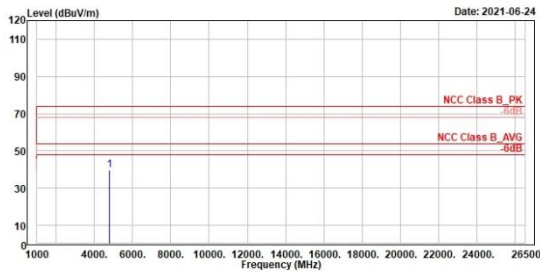
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

Low Channel (Horizontal)



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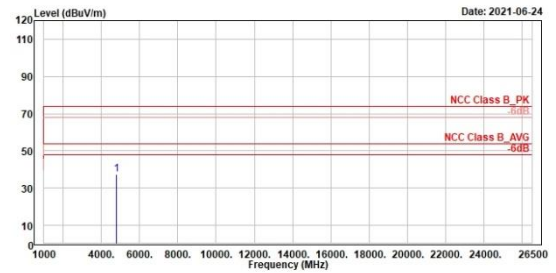


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4884.00	39.48	48.89	-9.41	74.00	-34.52	100	284	Peak	Horizontal	

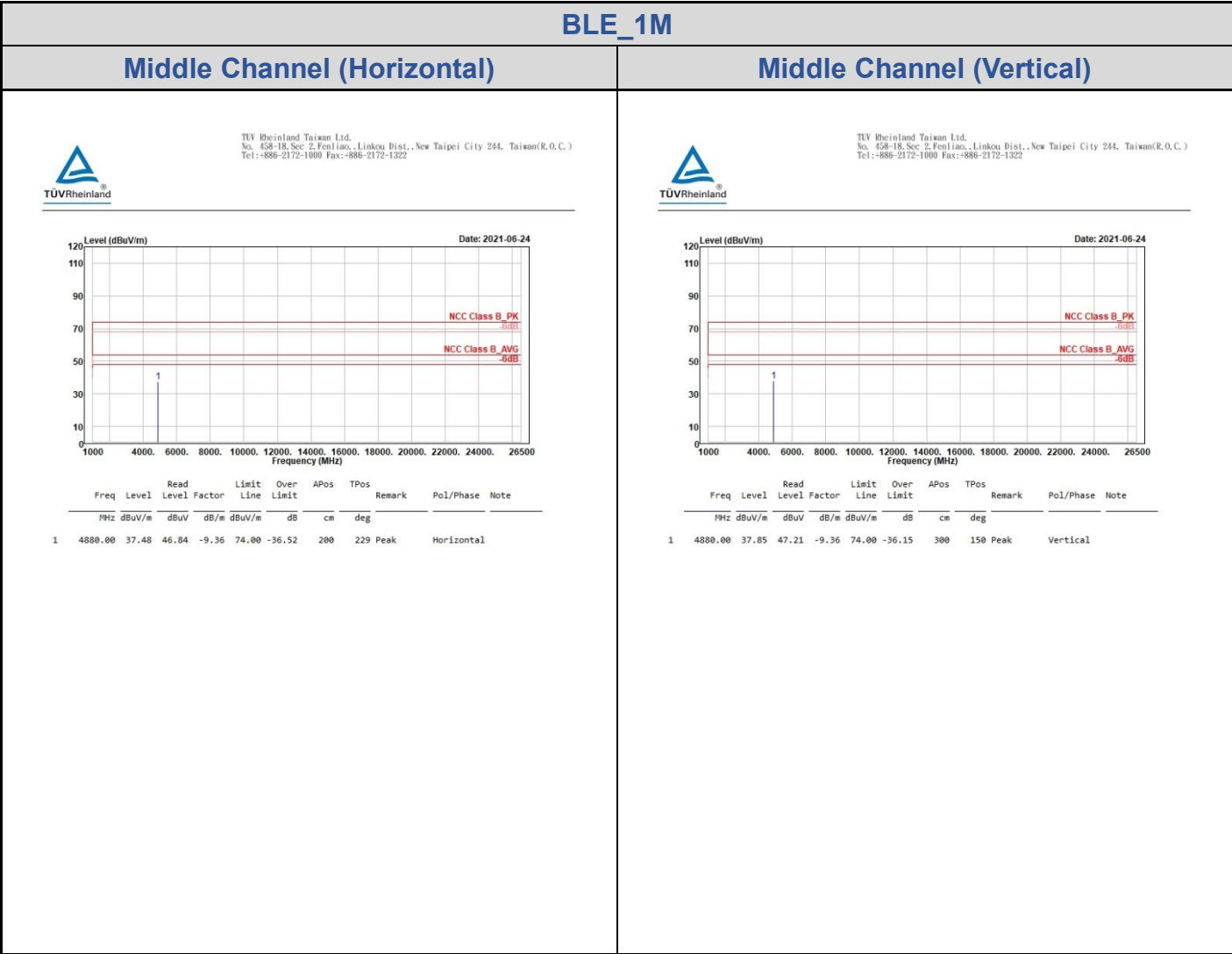
Low Channel (Vertical)

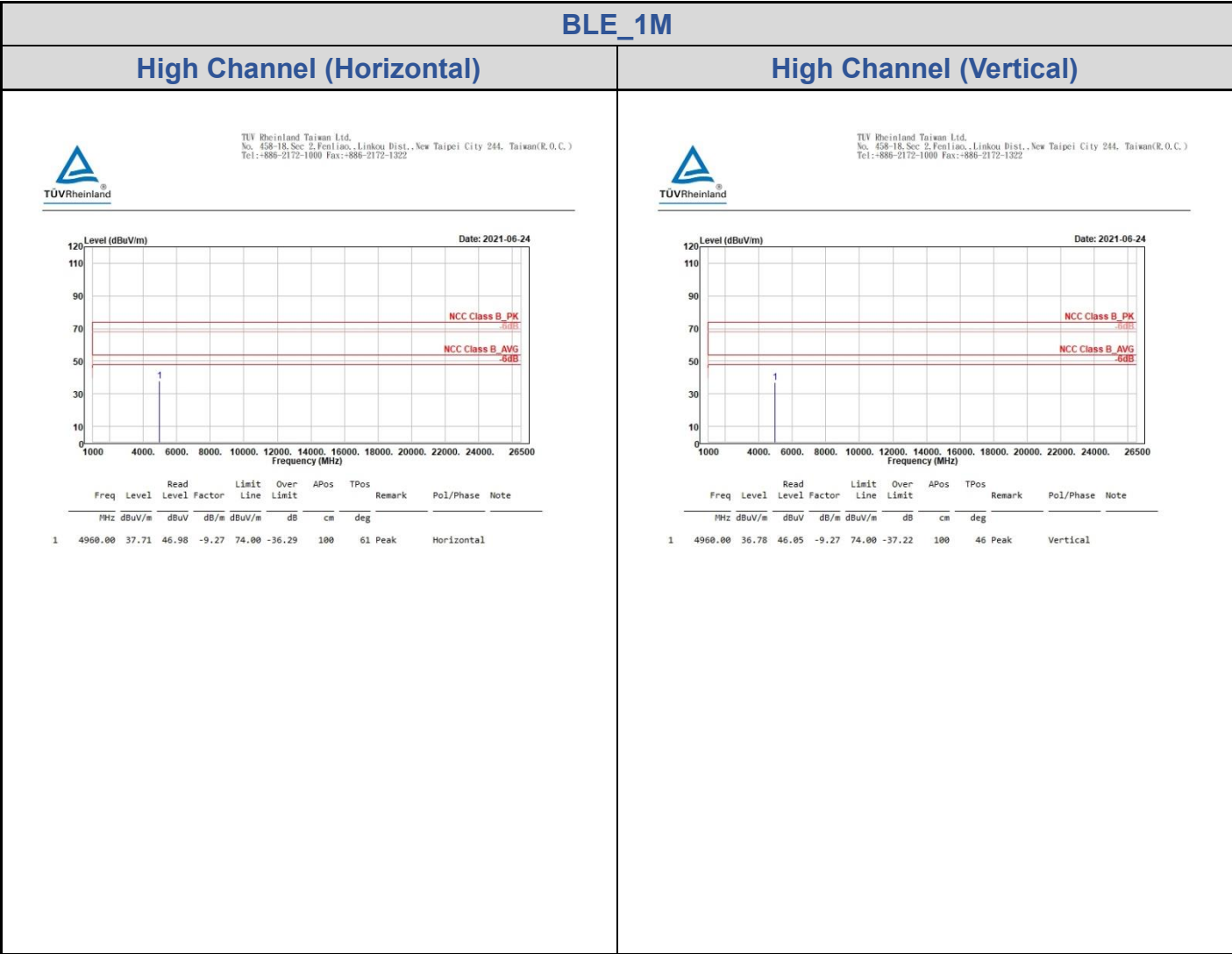


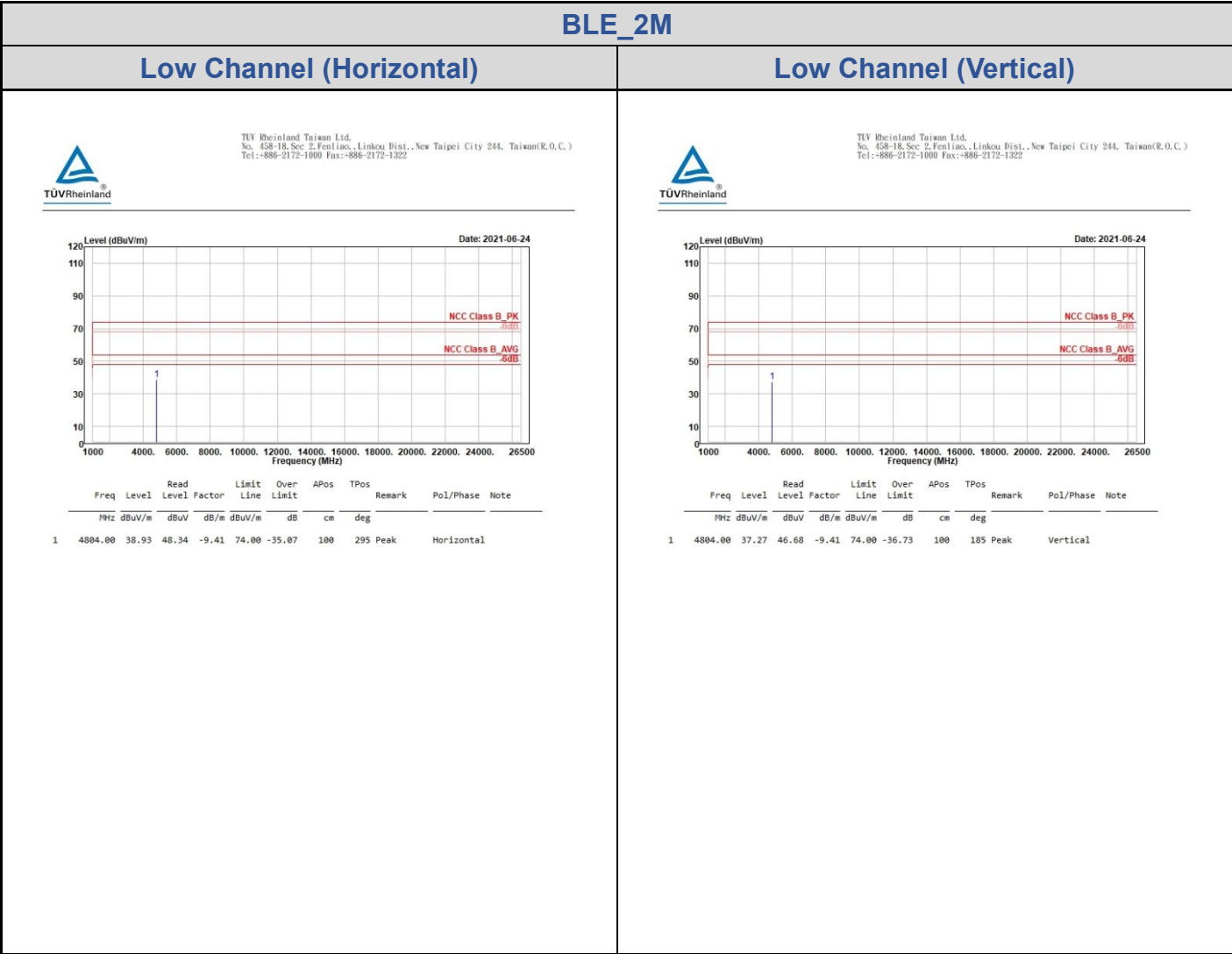
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4884.00	37.20	46.61	-9.41	74.00	-36.80	100	330	Peak	Vertical	







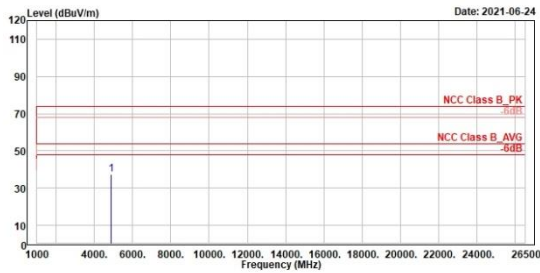
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



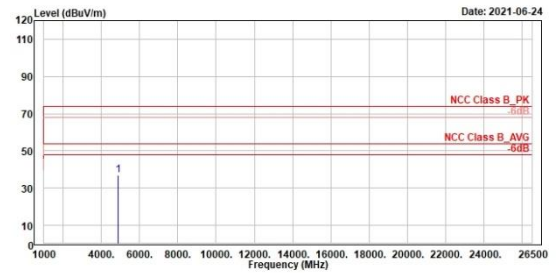
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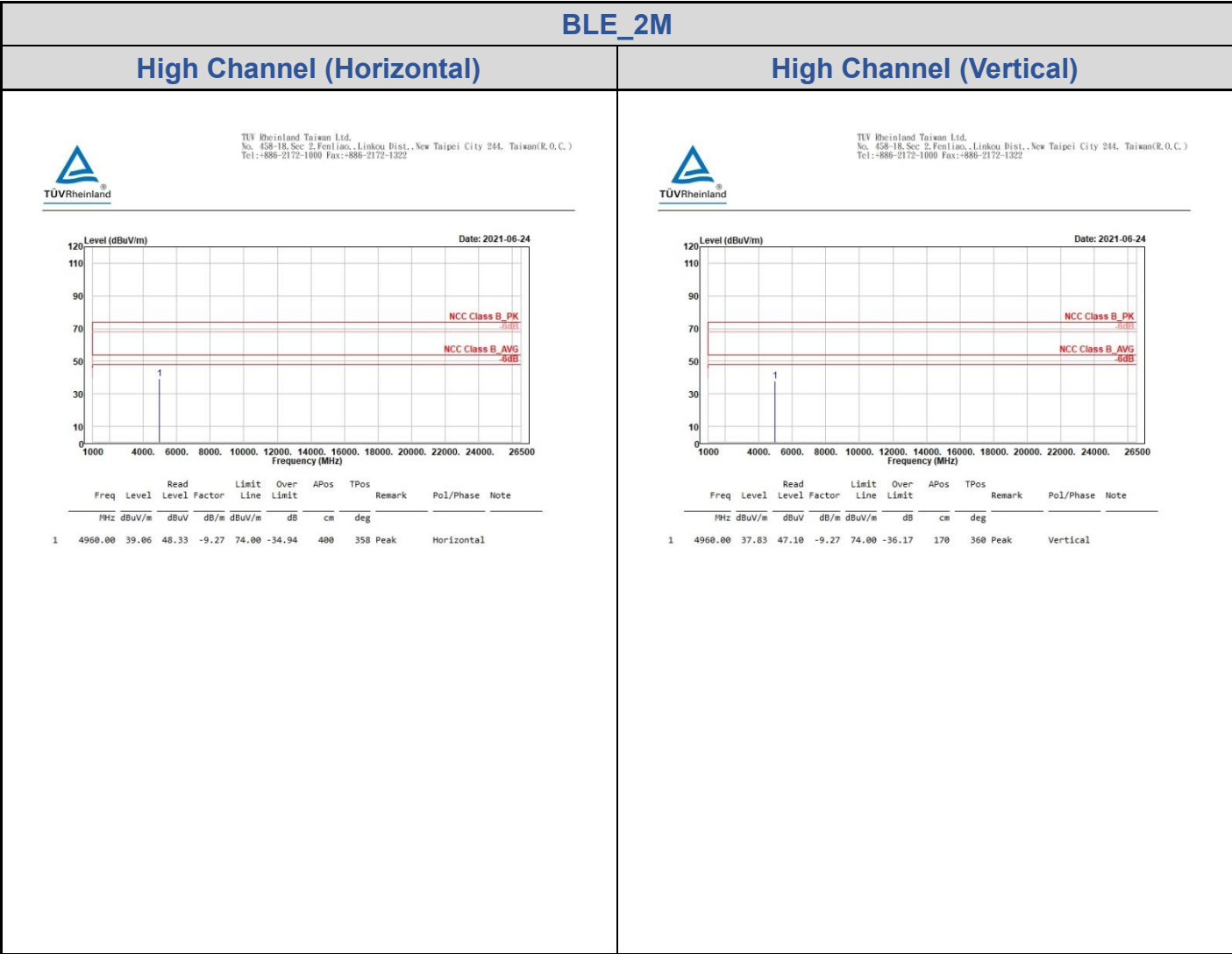
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4880.00	37.38	46.74	-9.36	74.00	-36.62	100	143	Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 4880.00	36.94	46.30	-9.36	74.00	-37.06	100	271	Peak	Vertical		



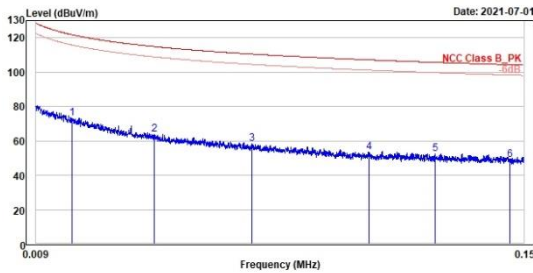
Spurious Emissions, Rx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz



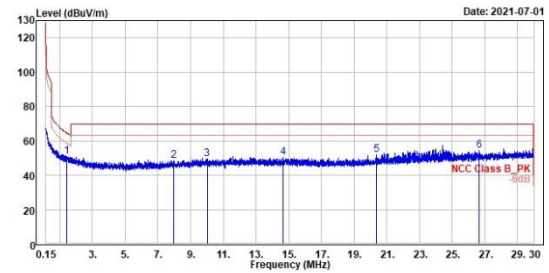
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.02	73.35	0.42	72.93	121.80	-48.45	100	183	QP	Open		
2	0.04	63.90	-1.57	65.47	114.88	-50.98	100	356	QP	Open		
3	0.07	58.14	-2.84	60.98	110.52	-52.38	100	179	QP	Open		
4	0.11	53.59	-3.41	57.00	107.16	-53.57	100	296	QP	Open		
5	0.12	52.23	-3.95	56.18	105.71	-53.48	100	11	QP	Open		
6	0.15	48.79	-6.45	55.24	104.31	-55.52	100	28	QP	Open		



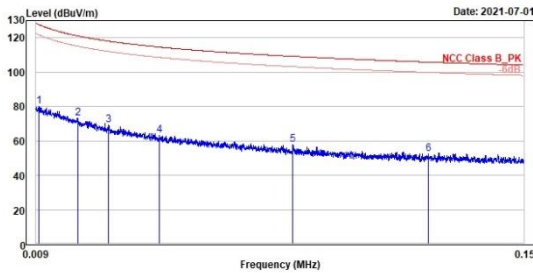
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	1.42	50.92	10.70	40.22	64.59	-13.67	100	19	QP	Open		
2	7.97	48.61	11.14	37.47	69.50	-20.89	100	256	QP	Open		
3	10.02	49.52	11.22	38.30	69.50	-19.98	100	223	QP	Open		
4	14.67	50.60	12.62	37.98	69.50	-18.90	100	156	QP	Open		
5	20.38	51.72	13.93	37.79	69.50	-17.78	100	214	QP	Open		
6	26.67	54.45	13.68	40.77	69.50	-15.05	100	210	QP	Open		

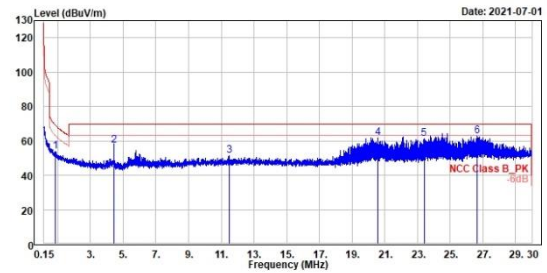
BLE_2M

High Channel (Close) 9kHz~150kHz



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	0.01	80.11	3.34	76.77	127.63	-47.52	100	58 QP	Close		
2	0.02	73.31	1.02	72.29	121.13	-47.82	100	62 QP	Close		
3	0.03	69.26	0.56	68.70	118.03	-48.77	100	133 QP	Close		
4	0.04	63.36	-1.77	65.13	114.60	-51.24	100	306 QP	Close		
5	0.08	57.75	-1.67	59.42	109.19	-51.44	100	316 QP	Close		
6	0.12	52.16	-4.10	56.26	105.85	-53.69	100	36 QP	Close		

High Channel (Close) 150kHz~30MHz



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	0.84	54.05	11.72	42.33	69.15	-15.10	100	90 QP	Close		
2	4.43	57.52	21.00	36.52	69.50	-11.98	100	350 QP	Close		
3	11.47	51.31	13.12	38.19	69.50	-18.19	100	188 QP	Close		
4	20.57	61.97	24.10	37.87	69.50	-7.53	100	308 QP	Close		
5	23.41	61.42	22.20	39.22	69.50	-8.08	100	360 QP	Close		
6	26.63	62.71	21.96	40.75	69.50	-6.79	100	19 QP	Close		

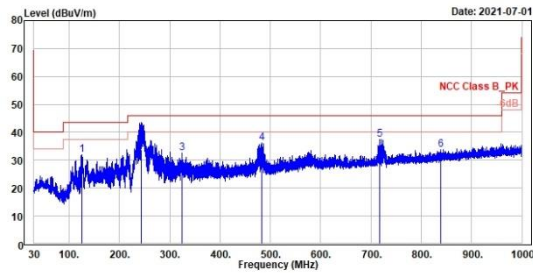
Spurious Emissions, Rx Mode, 30MHz ~ 1GHz

BLE_2M

High Channel (Horizontal)



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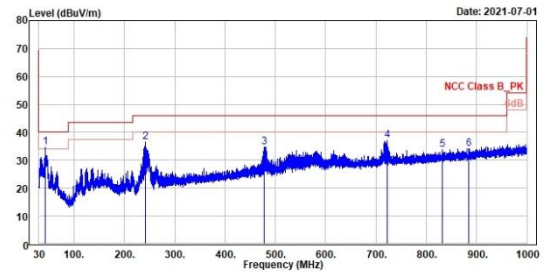


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	124.96	31.89	39.55	-7.66	43.50	-11.61	200	140	QP	Horizontal		
2	243.40	33.79	40.36	-6.57	46.00	-12.21	100	118	QP	Horizontal		
3	324.40	32.43	36.55	-4.12	46.00	-13.57	100	126	QP	Horizontal		
4	483.48	36.20	37.91	-1.71	46.00	-9.80	200	286	QP	Horizontal		
5	718.02	37.55	35.64	1.91	46.00	-8.45	100	161	QP	Horizontal		
6	838.98	33.70	29.73	3.97	46.00	-12.30	200	132	QP	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	42.80	34.80	40.51	-5.71	46.00	-5.20	100	116	QP	Vertical		
2	242.04	36.44	43.05	-6.61	46.00	-9.56	200	331	QP	Vertical		
3	478.72	34.79	36.51	-1.72	46.00	-11.21	100	189	QP	Vertical		
4	722.77	37.06	35.10	1.96	46.00	-8.94	100	143	QP	Vertical		
5	831.90	33.84	29.98	3.86	46.00	-12.16	200	116	QP	Vertical		
6	884.28	34.16	29.53	4.63	46.00	-11.84	100	147	QP	Vertical		

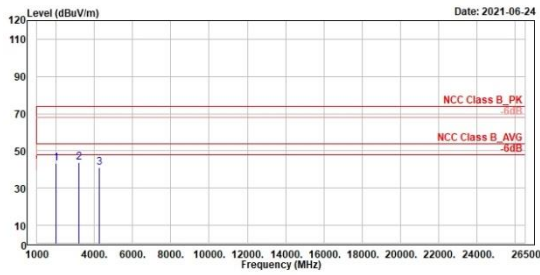
Spurious Emissions, Rx Mode, 1GHz ~ 26.5GHz

BLE_2M

High Channel (Horizontal)



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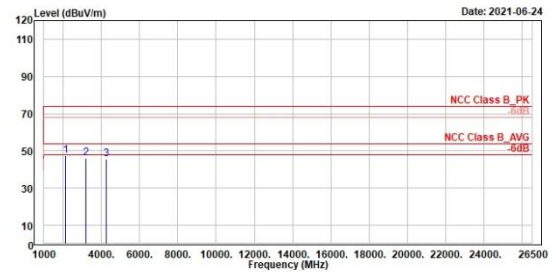


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2088.00	43.33	58.18	-14.85	74.00	-30.67	390	387	Peak	Horizontal	
2	3192.00	43.76	55.50	-11.74	74.00	-30.24	390	67	Peak	Horizontal	
3	4250.00	40.85	51.17	-10.32	74.00	-33.15	100	292	Peak	Horizontal	

High Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2131.00	47.49	62.07	-14.58	74.00	-26.51	200	54	Peak	Vertical	
2	3200.00	46.03	57.76	-11.73	74.00	-27.97	390	333	Peak	Vertical	
3	4253.00	45.68	55.99	-10.31	74.00	-28.32	200	171	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

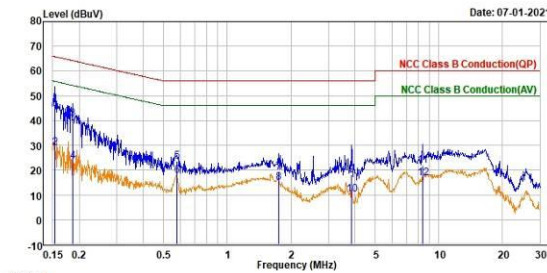
Worst Band

(Line)

(Neutral)



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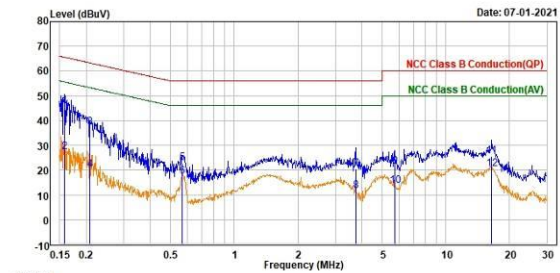


Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.153	36.77	9.66	46.43	65.83	-19.40	QP	line1	
2	0.153	19.47	9.66	29.13	55.83	-26.70	Average	line1	
3	0.186	30.85	9.65	40.50	64.22	-23.72	QP	line1	
4	0.186	13.98	9.65	23.63	54.22	-30.59	Average	line1	
5	0.579	14.05	9.65	23.70	56.00	-32.30	QP	line1	
6	0.579	8.01	9.65	17.66	46.00	-28.34	Average	line1	
7	1.742	9.28	9.68	18.96	56.00	-37.04	QP	line1	
8	1.742	5.23	9.68	14.91	46.00	-31.09	Average	line1	
9	3.868	8.25	9.70	17.95	56.00	-38.05	QP	line1	
10	3.868	0.60	9.70	10.30	46.00	-35.70	Average	line1	
11	8.375	12.22	9.74	21.96	60.00	-38.04	QP	line1	
12	8.375	6.88	9.74	16.62	50.00	-33.38	Average	line1	



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Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.158	36.25	9.68	45.93	65.54	-19.61	QP	neutral	
2	0.158	17.75	9.68	27.43	55.54	-28.11	Average	neutral	
3	0.207	27.64	9.67	37.31	63.31	-26.00	QP	neutral	
4	0.207	10.28	9.67	19.95	53.31	-33.36	Average	neutral	
5	0.570	13.12	9.66	22.78	56.00	-33.22	QP	neutral	
6	0.570	7.61	9.66	17.27	46.00	-28.73	Average	neutral	
7	3.754	10.63	9.71	20.34	56.00	-35.66	QP	neutral	
8	3.754	1.94	9.71	11.65	46.00	-34.35	Average	neutral	
9	5.734	11.71	9.74	21.45	60.00	-38.55	QP	neutral	
10	5.734	3.93	9.74	13.67	50.00	-36.33	Average	neutral	
11	16.413	15.78	9.82	25.60	60.00	-34.40	QP	neutral	
12	16.413	10.80	9.82	20.62	50.00	-29.38	Average	neutral	