

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

Band Edges, 2.31GHz ~ 2.9GHz

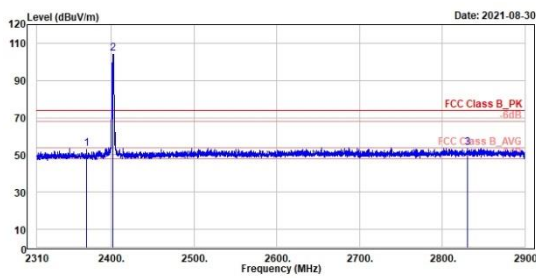
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



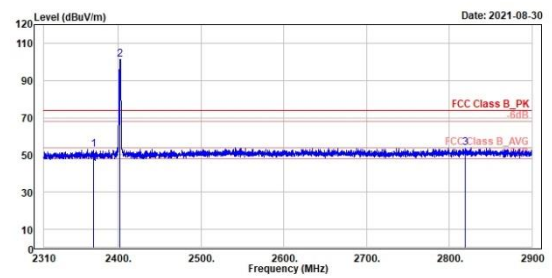
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	53.33	16.05	37.28	74.00	-20.67	150	40	Peak	Horizontal	
2 *	2402.00	104.46	67.14	37.32	74.00	30.46	150	40	Peak	Horizontal	
3	2830.62	53.92	15.71	38.21	74.00	-20.08	150	40	Peak	Horizontal	



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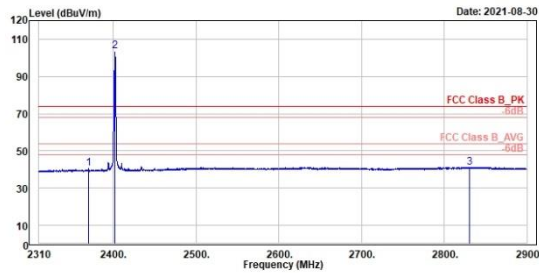
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	53.10	15.82	37.28	74.00	-20.90	101	100	Peak	Vertical	
2 *	2402.00	101.12	63.80	37.32	74.00	27.12	101	100	Peak	Vertical	
3	2819.52	54.02	15.82	38.20	74.00	-19.98	101	100	Peak	Vertical	

BLE_1M

Low Channel (Horizontal) Average



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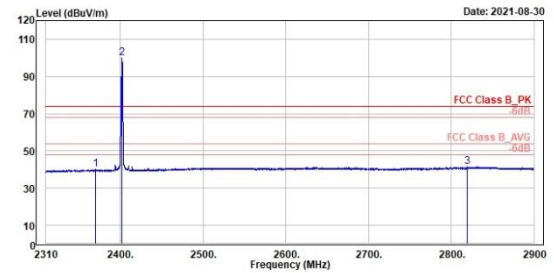


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	40.56	3.28	37.28	54.00	-13.44	150	40	Average	Horizontal	
2 *	2402.00	103.44	66.12	37.32	54.00	49.44	150	40	Average	Horizontal	
3	2830.62	41.22	3.01	38.21	54.00	-12.78	150	40	Average	Horizontal	

Low Channel (Vertical) Average

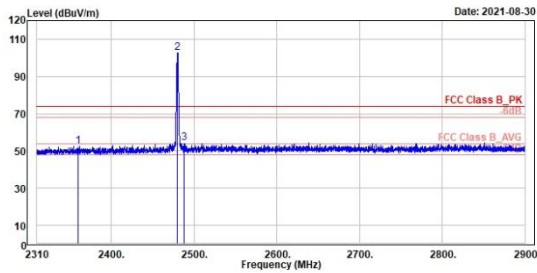
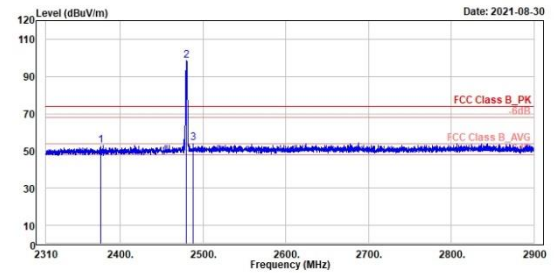


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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	40.13	2.85	37.28	54.00	-13.87	101	108	Average	Vertical	
2 *	2402.00	100.15	62.83	37.32	54.00	46.15	101	108	Average	Vertical	
3	2819.52	41.39	3.19	38.20	54.00	-12.61	101	108	Average	Vertical	

BLE_1M
High Channel (Horizontal) Peak

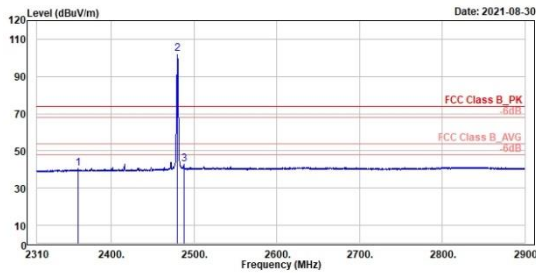
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BLE_1M

High Channel (Horizontal) Average



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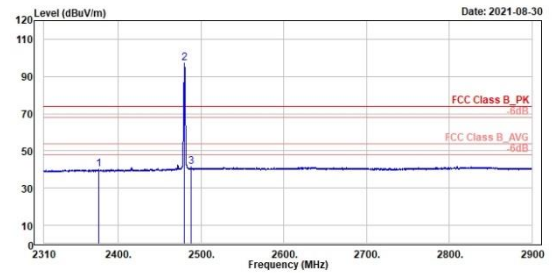


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2359.00	40.57	3.30	37.27	54.00	-13.43	119	42	Average	Horizontal	
2 *	2488.00	102.12	64.43	37.69	54.00	48.12	119	42	Average	Horizontal	
3	2488.06	42.83	5.08	37.75	54.00	-11.17	119	42	Average	Horizontal	

High Channel (Vertical) Average



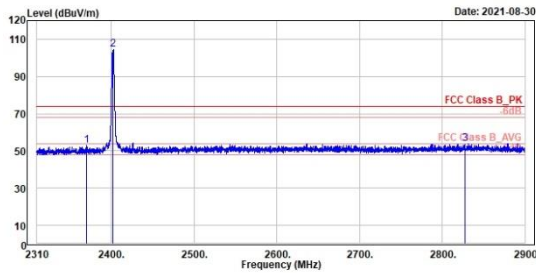
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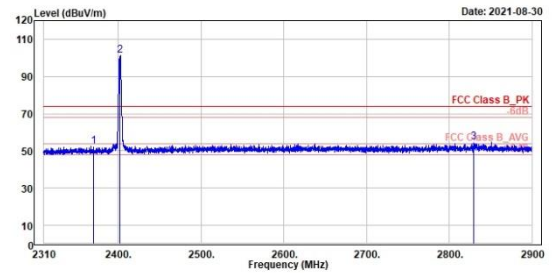
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2375.96	40.21	2.92	37.29	54.00	-13.79	124	111	Average	Vertical	
2 *	2480.00	97.38	59.69	37.69	54.00	43.38	124	111	Average	Vertical	
3	2487.94	41.63	3.88	37.75	54.00	-12.37	124	111	Average	Vertical	

BLE_2M

Low Channel (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	cm	deg			
1	2378.06	52.90	15.62	37.28	74.00	-21.10	150			48 Peak	Horizontal	
2 *	2402.00	104.29	66.97	37.32	74.00	30.29	150			48 Peak	Horizontal	
3	2828.14	53.94	15.73	38.21	74.00	-20.06	150			48 Peak	Horizontal	



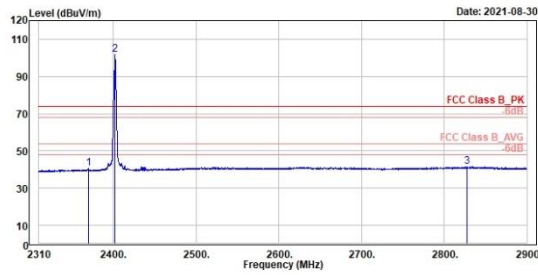
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2378.06	52.25	14.97	37.28	74.00	-21.75	100			108 Peak	Vertical	
2 *	2402.00	101.13	63.81	37.32	74.00	27.13	100			108 Peak	Vertical	
3	2829.32	54.67	16.46	38.21	74.00	-19.33	100			108 Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average



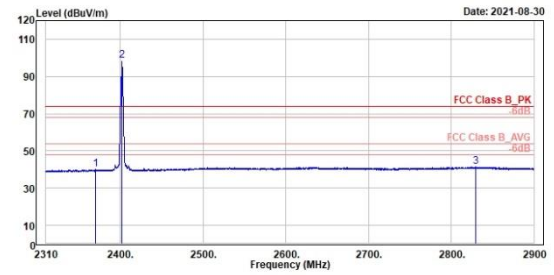
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2378.06	48.47	3.19	37.28	74.00	-33.53	150			48 Peak	Horizontal	
2 *	2402.00	101.57	64.25	37.32	74.00	27.57	150			48 Peak	Horizontal	
3	2828.14	41.45	3.24	38.21	74.00	-32.55	150			40 Peak	Horizontal	



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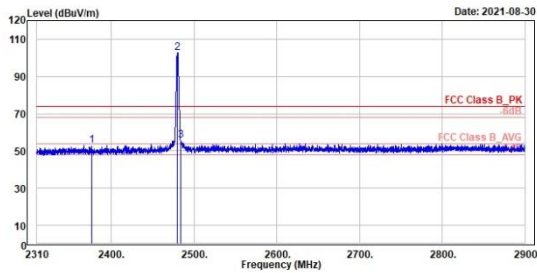
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2378.06	48.04	2.76	37.28	54.00	-13.96	100			108 Average	Vertical	
2 *	2402.00	98.58	61.26	37.32	54.00	44.58	100			108 Average	Vertical	
3	2829.32	41.43	3.22	38.21	54.00	-12.57	100			108 Average	Vertical	

BLE_2M

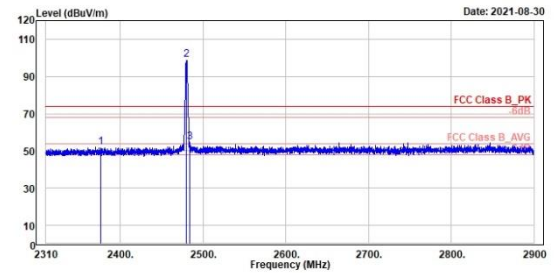
High Channel (Horizontal) Peak



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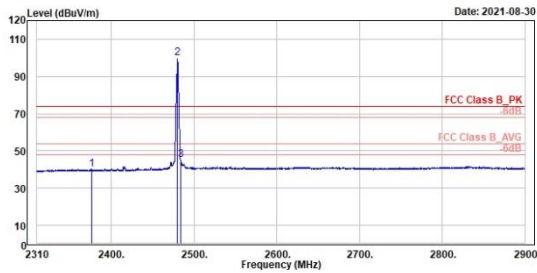


BLE_2M

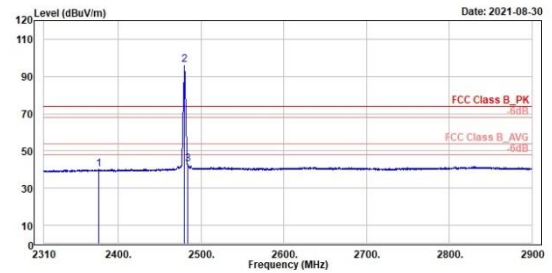
High Channel (Horizontal) Average



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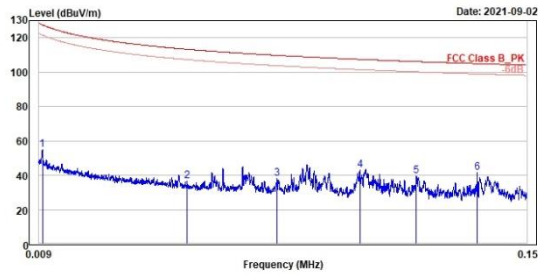
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_1M

Low Channel (Open) 9kHz~150kHz



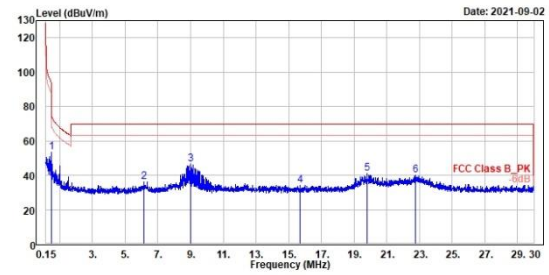
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	54.63	34.69	19.94	127.60	-72.97	100	104	QP	Open		
2	0.05	36.54	16.27	20.27	113.31	-76.77	100	312	QP	Open		
3	0.08	38.24	18.02	20.22	109.77	-71.53	100	320	QP	Open		
4	0.10	42.99	22.79	20.20	107.45	-64.46	100	170	QP	Open		
5	0.12	39.55	19.37	20.18	106.16	-66.61	100	176	QP	Open		
6	0.14	41.32	21.16	20.16	104.95	-63.63	100	194	QP	Open		



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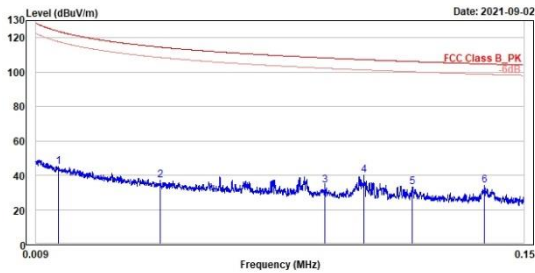
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.50	53.42	33.34	20.08	73.59	-20.17	100	220	QP	Open		
2	6.16	36.22	15.95	20.27	69.50	-33.28	100	227	QP	Open		
3	8.99	46.51	26.14	20.37	69.50	-22.99	100	185	QP	Open		
4	15.68	34.32	13.74	20.58	69.50	-35.18	100	328	QP	Open		
5	19.80	41.01	20.37	20.64	69.50	-28.49	100	317	QP	Open		
6	22.73	39.97	19.28	20.69	69.50	-29.53	100	279	QP	Open		

BLE_1M

Low Channel (Close) 9kHz~150kHz



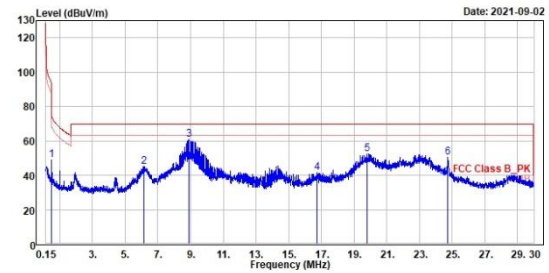
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.02	45.21	25.16	20.05	123.74	-78.53	100	275	QP	Close	
2	0.04	37.10	16.82	20.28	114.54	-77.44	100	290	QP	Close	
3	0.09	34.35	14.14	20.21	108.28	-73.93	100	97	QP	Close	
4	0.10	40.19	19.99	20.20	107.27	-67.08	100	142	QP	Close	
5	0.12	33.23	13.05	20.18	106.17	-72.94	100	126	QP	Close	
6	0.14	33.95	13.79	20.16	104.76	-70.81	100	119	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	0.50	48.96	28.88	20.08	73.59	-24.63	100	155	QP	Close	
2	6.17	45.08	24.81	20.27	69.50	-24.42	100	230	QP	Close	
3	8.91	60.77	40.40	20.37	69.50	-8.73	100	110	QP	Close	
4	16.74	41.60	21.00	20.60	69.50	-27.90	100	128	QP	Close	
5	19.80	52.43	31.79	20.64	69.50	-17.07	100	327	QP	Close	
6	24.74	50.43	29.70	20.73	69.50	-19.07	100	337	QP	Close	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

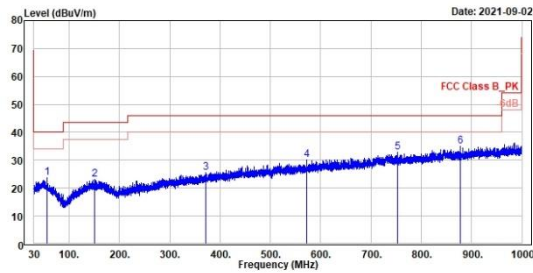
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



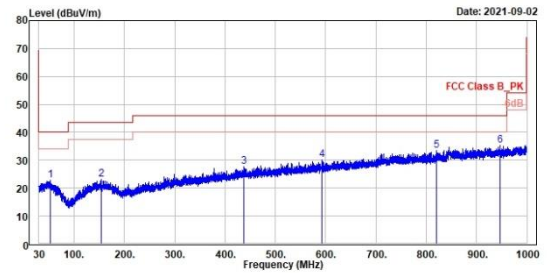
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	55.51	23.68	30.04	-6.36	40.00	-16.32	200	53	QP	Horizontal		
2	151.44	23.22	29.03	-5.81	43.50	-20.28	200	75	QP	Horizontal		
3	372.41	25.49	28.72	-3.23	46.00	-20.51	200	160	QP	Horizontal		
4	572.23	30.09	30.39	-0.30	46.00	-15.91	100	135	QP	Horizontal		
5	752.36	32.81	29.99	2.82	46.00	-13.19	300	183	QP	Horizontal		
6	877.00	34.86	30.46	4.40	46.00	-11.14	100	171	QP	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	53.09	22.87	28.91	-6.04	40.00	-17.13	200	81	QP	Vertical		
2	153.48	23.08	28.91	-5.83	43.50	-20.42	400	126	QP	Vertical		
3	437.30	27.56	29.67	-2.11	46.00	-18.44	132	360	QP	Vertical		
4	592.50	30.11	29.92	0.19	46.00	-15.89	100	360	QP	Vertical		
5	820.36	33.31	29.68	3.63	46.00	-12.69	300	265	QP	Vertical		
6	946.17	35.20	29.77	5.43	46.00	-10.80	100	62	QP	Vertical		

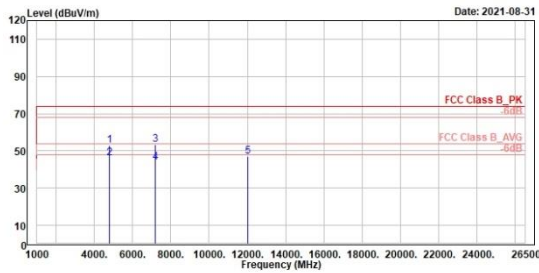
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

Low Channel (Horizontal)



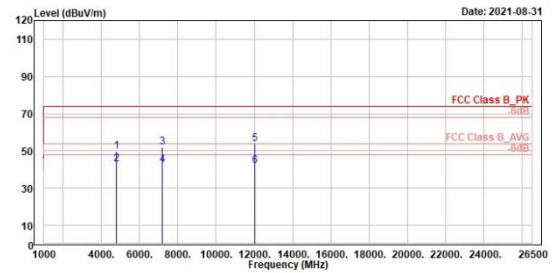
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	52.80	62.21	-9.41	74.00	-21.20	345	52	Peak	Horizontal	
2	4894.00	46.01	55.42	-9.41	54.00	-7.99	345	52	Average	Horizontal	
3	7206.00	53.22	59.86	-6.64	85.46	-32.24	313	295	Peak	Horizontal	
4	7206.00	43.81	50.45	-6.64	83.44	-39.63	313	295	Average	Horizontal	
5	12010.00	46.95	46.55	0.40	74.00	-27.05	279	21	Peak	Horizontal	



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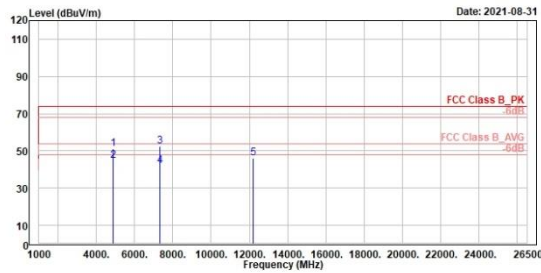
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	49.83	59.24	-9.41	74.00	-24.17	385	116	Peak	Vertical	
2	4894.00	43.11	52.52	-9.41	54.00	-10.89	385	116	Average	Vertical	
3	7206.00	52.09	58.73	-6.64	81.12	-29.03	319	24	Peak	Vertical	
4	7206.00	42.26	48.90	-6.64	80.15	-37.89	319	24	Average	Vertical	
5	12010.00	53.65	53.25	0.40	74.00	-20.35	388	113	Peak	Vertical	
6	12010.00	41.99	41.59	0.40	54.00	-12.01	388	113	Average	Vertical	

BLE_1M

Middle Channel (Horizontal)



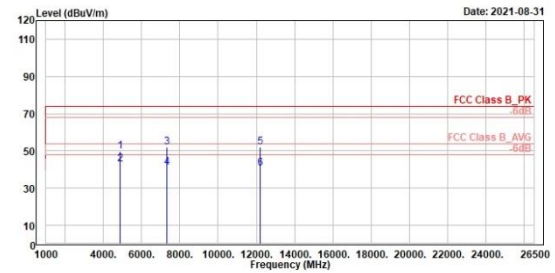
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	51.27	68.63	-9.36	74.00	-22.73	350			67 Peak	Horizontal	
2	4880.00	44.60	53.96	-9.36	54.00	-9.40	350			67 Average	Horizontal	
3	7320.00	52.61	59.24	-6.63	74.00	-21.39	319			165 Peak	Horizontal	
4	7320.00	42.12	48.75	-6.63	54.00	-11.88	319			165 Average	Horizontal	
5	12200.00	46.24	45.36	0.88	74.00	-27.76	100			274 Peak	Horizontal	



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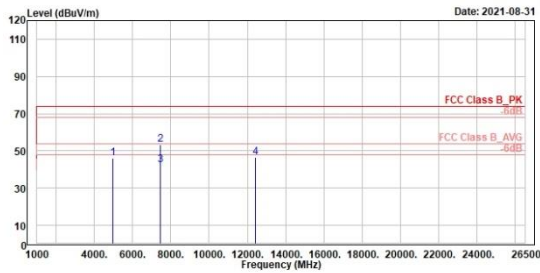
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	49.72	59.08	-9.36	74.00	-24.28	342			143 Peak	Vertical	
2	4880.00	42.77	52.13	-9.36	54.00	-11.23	342			143 Average	Vertical	
3	7320.00	51.90	58.53	-6.63	74.00	-22.10	359			129 Peak	Vertical	
4	7320.00	41.15	47.78	-6.63	54.00	-12.85	359			129 Average	Vertical	
5	12200.00	52.07	51.19	0.88	74.00	-21.93	321			104 Peak	Vertical	
6	12200.00	40.72	39.84	0.88	54.00	-13.28	321			104 Average	Vertical	

BLE_1M

High Channel (Horizontal)



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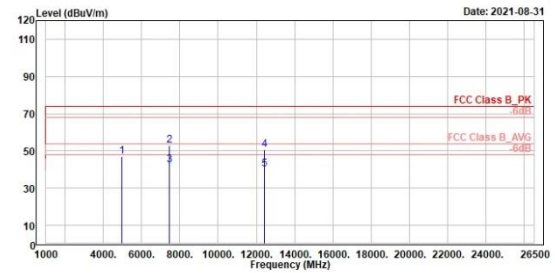


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	46.09	55.36	-9.27	74.00	-27.91	300	116	Peak	Horizontal	
2	7440.00	53.36	59.95	-6.59	74.00	-20.64	331	1	Peak	Horizontal	
3	7440.00	42.60	49.19	-6.59	54.00	-11.40	331	1	Average	Horizontal	
4	12400.00	46.58	45.50	1.08	74.00	-27.42	180	360	Peak	Horizontal	

High Channel (Vertical)



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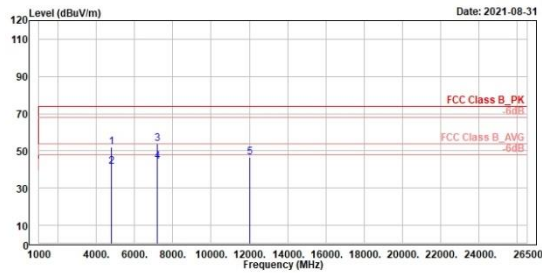
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	47.10	56.37	-9.27	74.00	-26.90	180	111	Peak	Vertical	
2	7440.00	53.01	59.60	-6.59	74.00	-20.99	316	357	Peak	Vertical	
3	7440.00	42.47	49.06	-6.59	54.00	-11.53	316	357	Average	Vertical	
4	12400.00	50.77	49.69	1.08	74.00	-23.23	374	295	Peak	Vertical	
5	12400.00	40.11	39.03	1.08	54.00	-13.89	374	295	Average	Vertical	

BLE_2M

Low Channel (Horizontal)



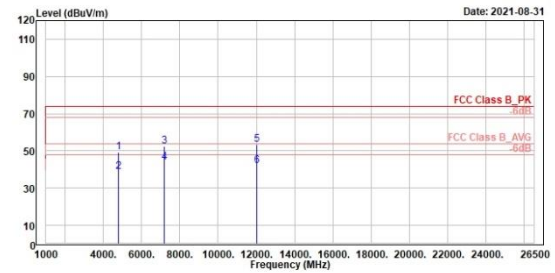
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	52.07	61.48	-9.41	74.00	-21.93	342	53	Peak	Horizontal		
2	4894.00	41.57	50.98	-9.41	54.00	-12.43	342	53	Average	Horizontal		
3	7206.00	53.78	60.42	-6.64	84.29	-30.51	314	175	Peak	Horizontal		
4	7206.00	44.12	50.76	-6.64	81.57	-37.45	314	175	Average	Horizontal		
5	12010.00	46.33	45.93	0.40	74.00	-27.67	400	24	Peak	Horizontal		



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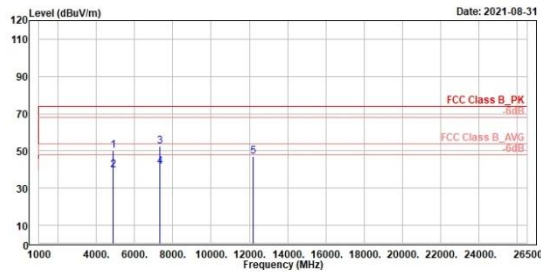
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	49.26	58.67	-9.41	74.00	-24.74	379	114	Peak	Vertical		
2	4894.00	38.80	48.21	-9.41	54.00	-15.20	379	114	Average	Vertical		
3	7206.00	52.39	59.03	-6.64	81.13	-28.74	314	29	Peak	Vertical		
4	7206.00	43.59	50.23	-6.64	78.58	-34.99	314	29	Average	Vertical		
5	12010.00	53.61	53.21	0.40	74.00	-20.39	309	117	Peak	Vertical		
6	12010.00	42.16	41.76	0.40	54.00	-11.84	309	117	Average	Vertical		

BLE_2M

Middle Channel (Horizontal)



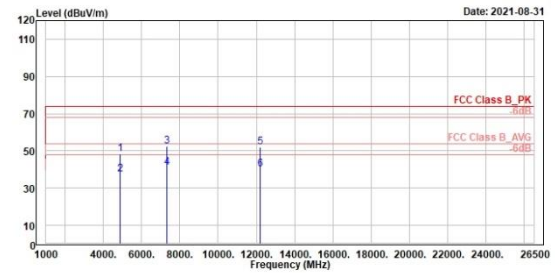
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	50.14	59.50	-9.36	74.00	-23.86	351	67	Peak	Horizontal		
2	4880.00	39.61	48.97	-9.36	54.00	-14.39	351	67	Average	Horizontal		
3	7320.00	52.61	59.24	-6.63	74.00	-21.39	320	159	Peak	Horizontal		
4	7320.00	41.67	48.30	-6.63	54.00	-12.33	320	159	Average	Horizontal		
5	12200.00	46.93	46.05	0.88	74.00	-27.07	362	15	Peak	Horizontal		



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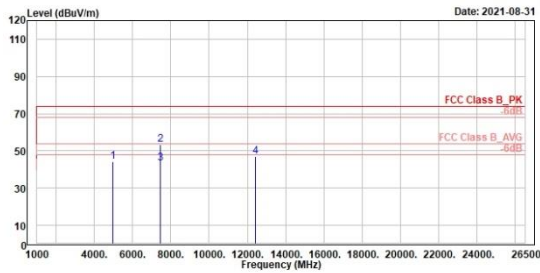
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.00	48.46	57.82	-9.36	74.00	-25.54	340	147	Peak	Vertical		
2	4880.00	37.60	46.96	-9.36	54.00	-16.40	340	147	Average	Vertical		
3	7320.00	52.44	59.07	-6.63	74.00	-21.56	352	125	Peak	Vertical		
4	7320.00	41.13	47.76	-6.63	54.00	-12.87	352	125	Average	Vertical		
5	12200.00	52.04	51.16	0.88	74.00	-21.96	324	110	Peak	Vertical		
6	12200.00	40.00	39.12	0.88	54.00	-14.00	324	110	Average	Vertical		

BLE_2M

High Channel (Horizontal)



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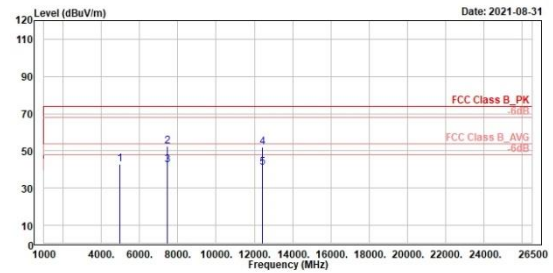


Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	44.38	53.65	-9.27	74.00	-29.62	100	137	Peak	Horizontal		
2	7440.00	53.53	60.12	-6.59	74.00	-20.47	331	284	Peak	Horizontal		
3	7440.00	43.36	49.95	-6.59	54.00	-10.64	331	284	Average	Horizontal		
4	12400.00	46.79	45.71	1.08	74.00	-27.21	100	20	Peak	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	4968.00	42.69	51.06	-9.27	74.00	-31.31	100	61	Peak	Vertical		
2	7440.00	52.66	59.25	-6.59	74.00	-21.34	344	359	Peak	Vertical		
3	7440.00	42.38	48.97	-6.59	54.00	-11.62	344	359	Average	Vertical		
4	12400.00	51.93	50.85	1.08	74.00	-22.07	362	290	Peak	Vertical		
5	12400.00	40.84	39.76	1.08	54.00	-13.16	362	290	Average	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

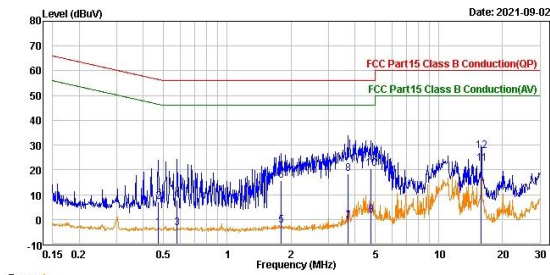
Worst Band

(Line)

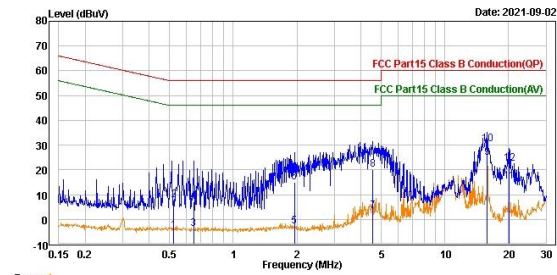
(Neutral)



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

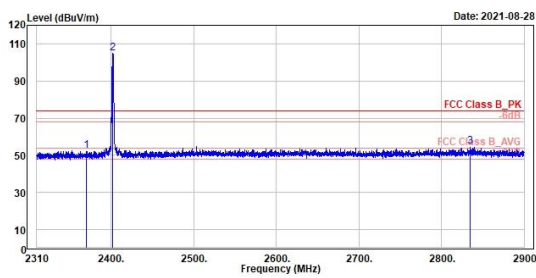
Band Edges, 2.31GHz ~ 2.9GHz

ANT+

Low Channel (Horizontal) Peak



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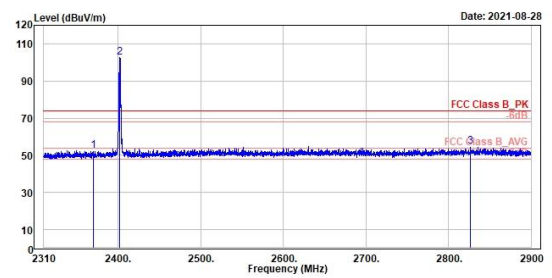


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2370.06	52.64	15.35	37.28	74.00	-21.36	100	44	Peak	Horizontal	
2 *	2402.00	104.78	67.46	37.32	74.00	30.78	100	44	Peak	Horizontal	
3	2835.22	54.58	16.36	38.22	74.00	-19.42	100	44	Peak	Horizontal	

Low Channel (Vertical) Peak

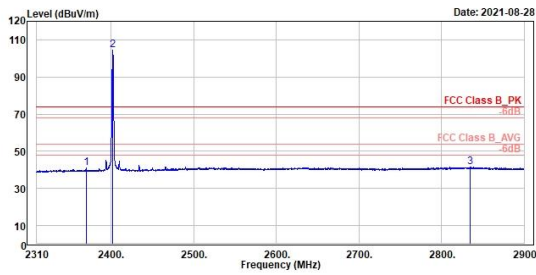


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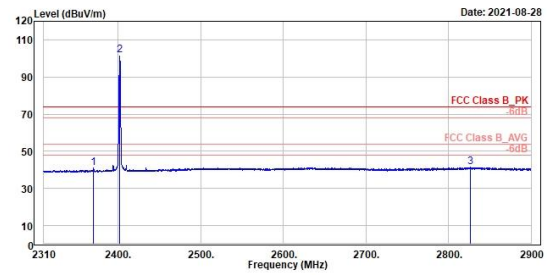
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.94	52.63	15.35	37.28	74.00	-21.37	100	106	Peak	Vertical	
2 *	2402.00	102.67	65.35	37.32	74.00	28.67	100	106	Peak	Vertical	
3	2826.37	54.82	16.61	38.21	74.00	-19.18	100	106	Peak	Vertical	

ANT+
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	2370.06	41.03	3.75	37.28	54.00	-12.97		100	44	Average	Horizontal	
2 *	2402.00	104.54	67.22	37.32	54.00	50.54		100	44	Average	Horizontal	
3	2835.22	41.49	3.27	38.22	54.00	-12.51		100	44	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	2369.94	40.87	3.59	37.28	54.00	-13.13		100	106	Average	Vertical	
2 *	2402.00	101.87	64.55	37.32	54.00	47.87		100	106	Average	Vertical	
3	2826.37	41.32	3.11	38.21	54.00	-12.68		100	106	Average	Vertical	