

Appendix D:

Test Results of Radiated Spurious Emissions & Mains Conducted

Emission Test for ANT 4 (ECC)

Band Edges, 2.31GHz ~ 2.9GHz

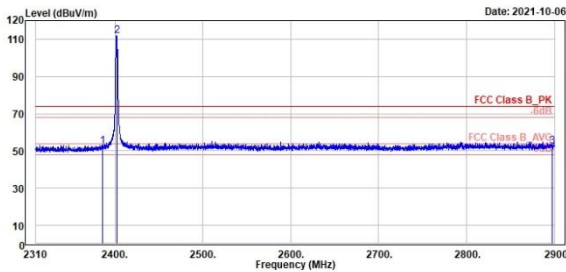
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



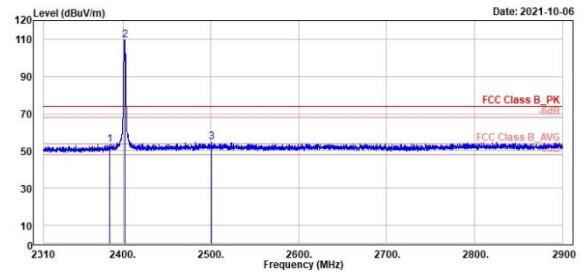
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2386.09	52.31	14.77	37.54	74.00	-21.69	239	0	Peak	Horizontal	
2 *	2402.00	111.89	74.25	37.64	74.00	37.89	239	0	Peak	Horizontal	
3	2897.41	52.32	13.71	38.61	74.00	-21.68	239	0	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	2384.91	53.22	15.70	37.52	74.00	-20.78	314	90	Peak	Vertical	
2 *	2402.00	109.57	71.93	37.64	74.00	35.57	314	90	Peak	Vertical	
3	2500.70	54.54	16.29	38.25	74.00	-19.46	314	90	Peak	Vertical	

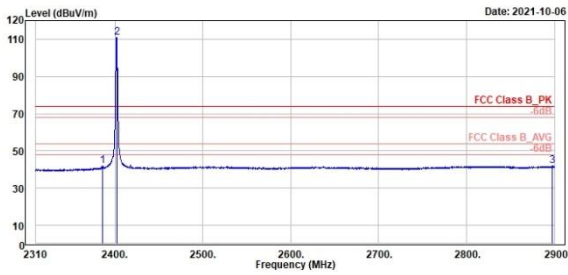
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



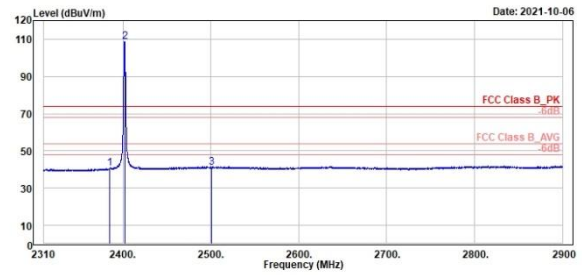
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1	2	3
2386.09	2482.00	2897.41
42.11	110.73	42.02
4.57	73.09	3.41
37.54	37.64	38.61
54.00	54.00	54.00
-11.89	56.73	-11.98
239	239	239
0	0	0
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
2384.91	2482.00	2500.70
40.39	108.43	41.23
2.87	70.79	2.98
37.52	37.64	38.25
54.00	54.00	54.00
-13.61	54.43	-12.77
314	314	314
90	90	90
Average	average	Average
Vertical	Vertical	Vertical

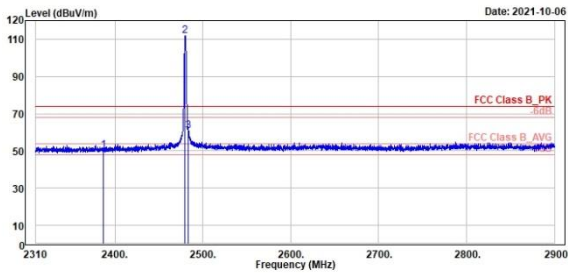
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



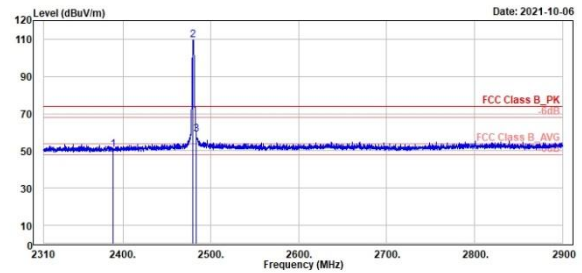
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.68	50.16	12.62	37.54	74.00	-23.84	341	3	Peak	Horizontal	
2 *	2480.00	111.61	73.66	38.15	74.00	37.81	341	3	Peak	Horizontal	
3	2483.50	60.66	22.50	38.16	74.00	-13.34	341	3	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	2388.57	50.48	12.93	37.55	74.00	-23.52	323	104	Peak	Vertical	
2 *	2480.00	109.45	71.30	38.15	74.00	35.45	323	104	Peak	Vertical	
3	2483.50	58.75	20.59	38.16	74.00	-15.25	323	104	Peak	Vertical	

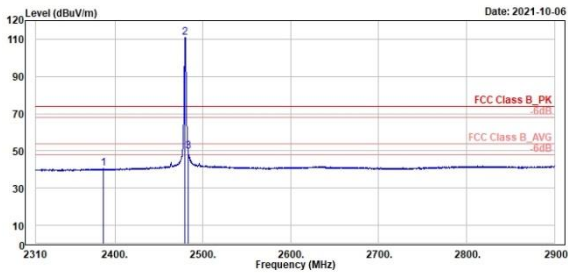
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



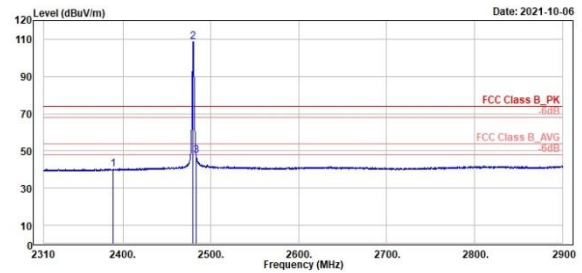
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.68	48.38	2.84	37.54	54.00	-13.62	341	3	Average	Horizontal
2 *	2488.00	118.05	72.78	38.15	54.00	56.85	341	3	Average	Horizontal
3 †	2483.50	49.61	11.45	38.16	54.00	-4.39	341	3	Average	Horizontal



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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	2388.57	48.15	2.60	37.55	54.00	-13.85	323	104	Average	Vertical
2 *	2488.00	108.43	70.28	38.15	54.00	54.43	323	104	Average	Vertical
3 †	2483.50	47.26	9.10	38.16	54.00	-6.74	323	104	Average	Vertical

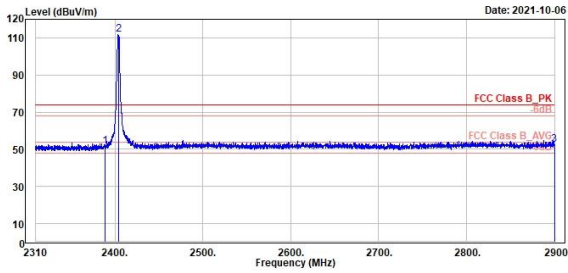
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



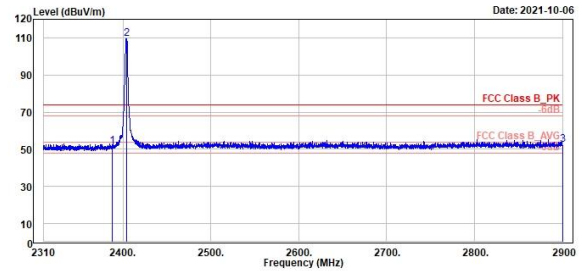
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.68	51.33	13.78	37.55	74.00	-22.67	360	0	Peak	Horizontal	
2 *	2494.00	111.62	73.96	37.66	74.00	37.62	360	0	Peak	Horizontal	
3	2899.76	52.67	14.05	38.62	74.00	-21.33	360	0	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	2387.98	51.57	14.02	37.55	74.00	-22.43	316	90	Peak	Vertical	
2 *	2494.00	109.49	71.83	37.66	74.00	35.49	316	90	Peak	Vertical	
3	2899.88	52.60	13.98	38.62	74.00	-21.40	316	90	Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average

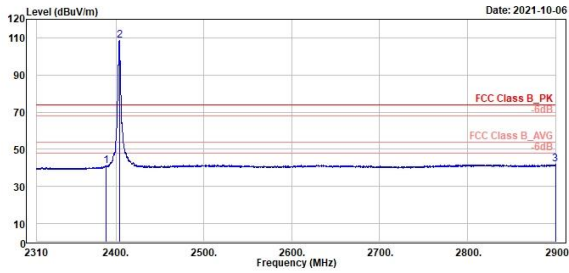
Low Channel (Vertical) Average



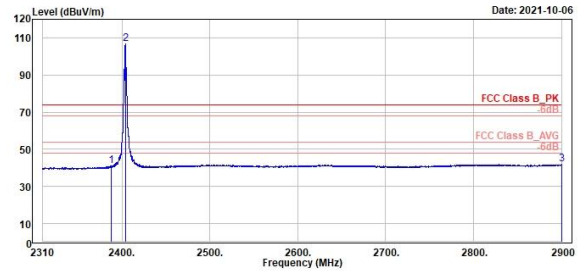
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.68	41.22	3.67	37.55	54.00	-12.78	360	0	Average	Horizontal	
2	2494.08	106.42	70.76	37.66	54.00	54.42	360	0	Average	Horizontal	
3	2899.76	41.82	3.20	38.62	54.00	-12.18	360	0	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	2387.98	41.25	3.70	37.55	54.00	-12.75	316	90	Average	Vertical	
2	2494.08	106.58	69.92	37.66	54.00	52.58	316	90	Average	Vertical	
3	2899.88	41.79	3.17	38.62	54.00	-12.21	316	90	Average	Vertical	

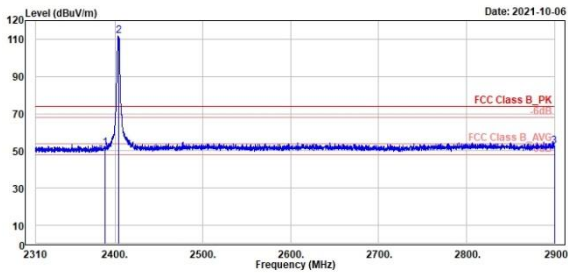
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



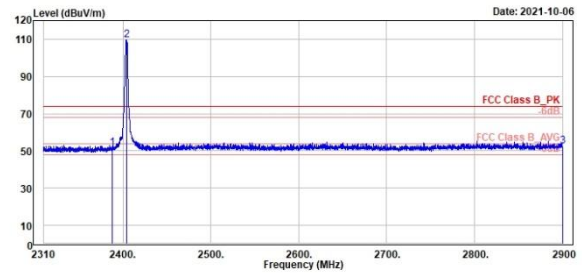
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Peak	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2388.68	51.33	13.78	37.55	74.00	-22.67	360	0	Peak	Horizontal	
2 *	2494.00	111.62	73.96	37.66	74.00	37.62	360	0	Peak	Horizontal	
3	2899.76	52.67	14.05	38.62	74.00	-21.33	360	0	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	2387.98	51.57	14.02	37.55	74.00	-22.43	316	90	Peak	Vertical	
2 *	2494.00	109.49	71.83	37.66	74.00	35.49	316	90	Peak	Vertical	
3	2899.88	52.60	13.98	38.62	74.00	-21.40	316	90	Peak	Vertical	

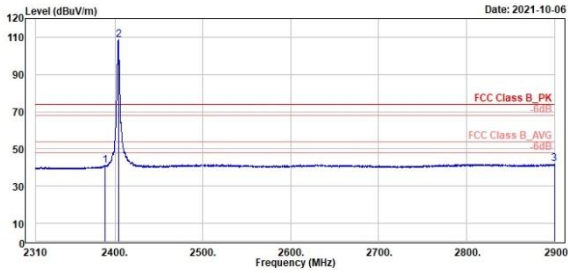
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



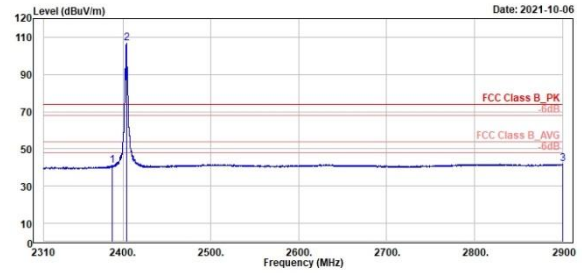
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.68	41.22	3.67	37.55	54.00	-12.78	360	0 Average	Horizontal
2	2404.00	106.42	70.76	37.66	54.00	54.42	360	0 Average	Horizontal
3	2899.76	41.82	3.20	38.62	54.00	-12.18	360	0 Average	Horizontal



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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	2387.98	41.25	3.70	37.55	54.00	-12.75	316	90 Average	Vertical
2	2404.00	106.58	68.92	37.66	54.00	52.58	316	90 average	Vertical
3	2899.88	41.79	3.17	38.62	54.00	-12.21	316	90 Average	Vertical

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

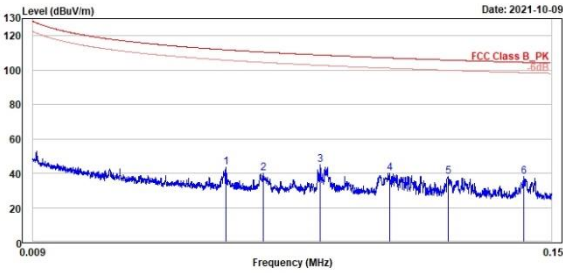
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



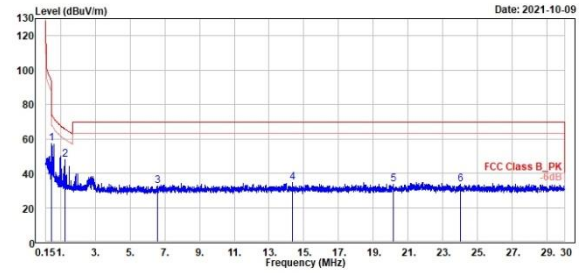
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.06	43.68	23.39	20.29	111.82	-68.14	100	133	QP	Open
2	0.07	40.13	19.86	20.27	110.49	-70.36	100	177	QP	Open
3	0.09	44.75	24.49	20.26	108.79	-64.04	100	168	QP	Open
4	0.11	40.20	19.97	20.23	107.09	-66.89	100	118	QP	Open
5	0.12	37.85	17.63	20.22	105.88	-68.03	100	164	QP	Open
6	0.14	37.67	17.67	20.20	104.52	-66.65	100	164	QP	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	0.50	57.35	37.23	20.12	73.64	-16.29	100	137	QP	Open
2	1.26	48.03	27.82	20.21	65.61	-17.58	100	178	QP	Open
3	6.56	32.79	12.53	20.26	69.50	-36.71	100	343	QP	Open
4	14.36	34.37	13.95	20.42	69.50	-35.13	100	211	QP	Open
5	20.14	33.57	13.08	20.49	69.50	-35.93	100	152	QP	Open
6	23.99	33.77	13.24	20.53	69.50	-35.73	100	0	QP	Open

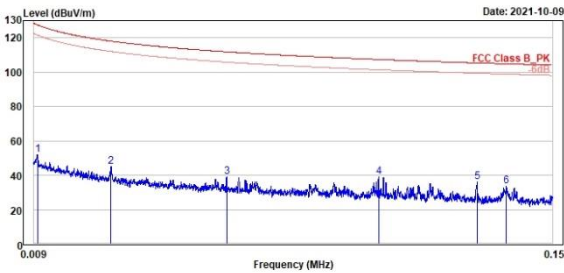
BLE_2M

High Channel (Close) 9kHz~150kHz

High Channel (Close) 150kHz~30MHz



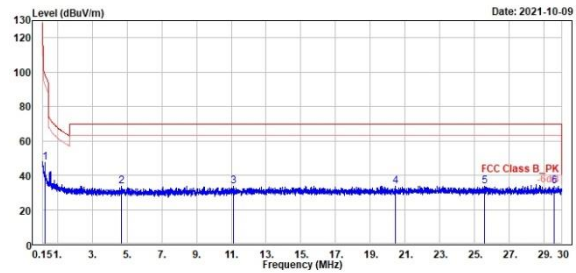
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	52.02	32.05	19.97	127.50	-75.56	100	341	QP	Close	
2	0.03	45.22	24.91	20.31	118.04	-72.82	100	40	QP	Close	
3	0.06	39.20	18.91	20.29	111.83	-72.63	100	246	QP	Close	
4	0.10	39.21	18.97	20.24	107.36	-68.15	100	125	QP	Close	
5	0.13	36.03	15.82	20.21	105.35	-69.32	100	125	QP	Close	
6	0.14	33.59	13.39	20.20	104.84	-71.25	100	106	QP	Close	

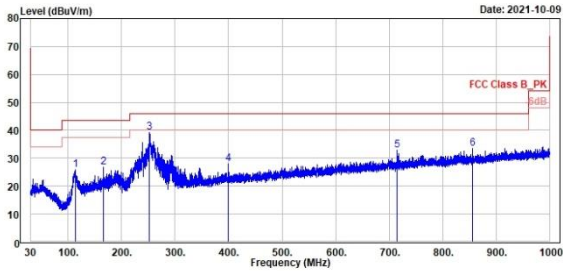


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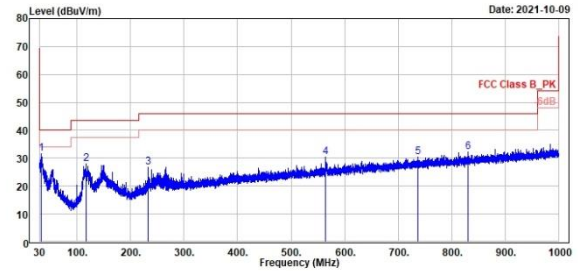


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.28	47.52	27.38	20.14	98.80	-51.28	100	80	QP	Close	
2	4.67	33.66	13.39	20.27	69.50	-35.84	100	215	QP	Close	
3	11.14	33.51	13.14	20.37	69.50	-35.99	100	167	QP	Close	
4	20.45	33.66	13.16	20.50	69.50	-35.84	100	282	QP	Close	
5	25.56	33.41	12.87	20.54	69.50	-36.09	100	17	QP	Close	
6	29.58	33.59	13.08	20.51	69.50	-35.91	100	71	QP	Close	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)

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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	113.13	25.77	36.38	-10.53	43.50	-17.73	200	145	QP	Horizontal
2	166.58	26.68	33.79	-7.11	43.50	-16.82	200	78	QP	Horizontal
3	252.13	39.16	47.28	-8.12	46.00	-6.84	100	63	QP	Horizontal
4	399.86	27.99	32.21	-4.22	46.00	-18.01	100	24	QP	Horizontal
5	715.50	32.75	32.31	0.44	46.00	-13.25	200	141	QP	Horizontal
6	856.63	33.43	30.69	2.74	46.00	-12.57	200	196	QP	Horizontal


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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	33.49	31.67	40.49	-8.82	40.00	-8.33	100	360	QP	Vertical
2	117.01	27.83	38.17	-10.34	43.50	-15.67	100	163	QP	Vertical
3	232.63	26.83	35.36	-8.53	46.00	-19.17	100	349	QP	Vertical
4	564.76	30.54	32.55	-2.01	46.00	-15.46	100	77	QP	Vertical
5	737.71	30.47	29.44	1.03	46.00	-15.53	100	264	QP	Vertical
6	830.54	32.09	29.72	2.37	46.00	-13.91	100	152	QP	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

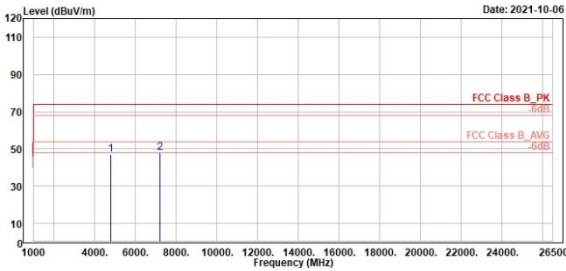
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



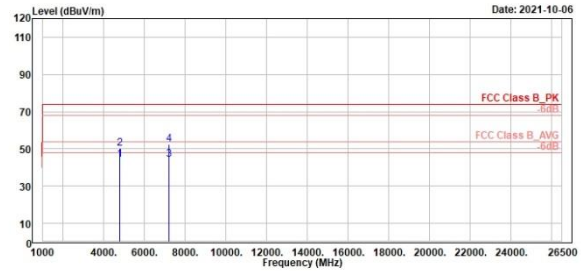
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Tel: +886-2172-1000 Fax: +886-2172-1322



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	4884.00	47.13	56.91	-9.78	74.00	-26.87	400	171 Peak	Horizontal	
2	7286.00	47.76	55.00	-7.24	91.89	-44.13	100	224 Peak	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	4884.00	44.07	53.85	-9.78	54.00	-9.93	371	123 Average	Vertical	
2	4884.00	50.21	59.99	-9.78	74.00	-23.79	371	123 Peak	Vertical	
3	7286.00	44.23	51.47	-7.24	88.43	-44.20	353	118 Average	Vertical	
4	7286.00	52.53	59.77	-7.24	88.43	-35.90	353	118 Peak	Vertical	

BLE_1M

Middle Channel (Horizontal)

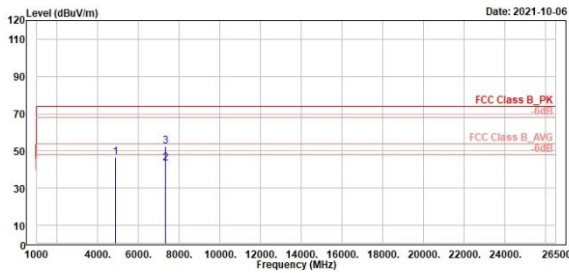
Middle Channel (Vertical)



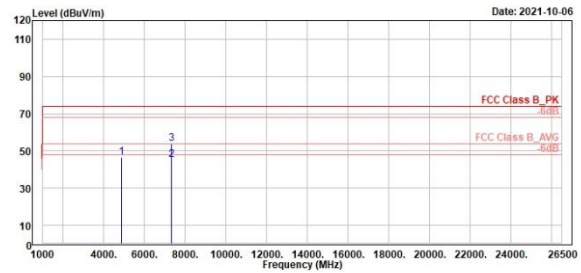
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1	2	3
4880.00	7320.00	7320.00
46.67	43.52	52.32
56.34	58.79	59.59
-9.67	-7.27	-7.27
74.00	54.00	74.00
-27.33	-10.48	-21.68
400	301	301
157 Peak	225 Average	225 Peak
Horizontal	Horizontal	Horizontal



1	2	3
4880.00	7320.00	7320.00
46.48	45.13	53.89
56.15	52.40	61.16
-9.67	-7.27	-7.27
74.00	54.00	74.00
-27.52	-8.87	-20.11
400	300	300
137 Peak	103 Average	103 Peak
Vertical	Vertical	Vertical

BLE_1M

High Channel (Horizontal)

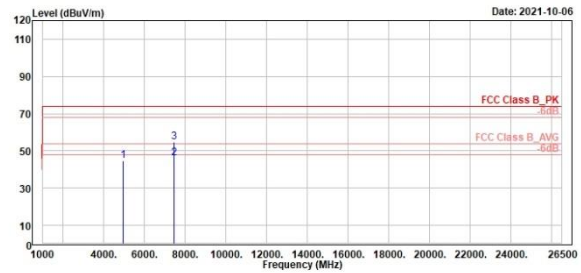
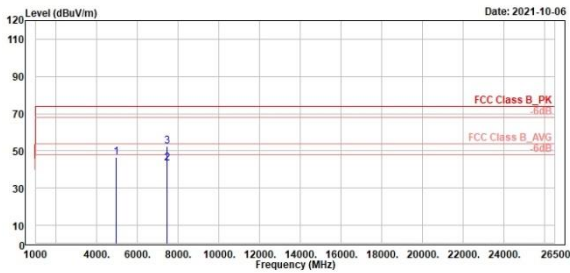
High Channel (Vertical)



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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		
4960.00	46.69	56.15	-9.46	74.00	-27.31	200	166 Peak	Horizontal	
7440.00	43.16	58.41	-7.25	54.00	-10.84	209	212 Average	Horizontal	
7440.00	52.34	59.59	-7.25	74.00	-21.66	209	212 Peak	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		
4960.00	44.54	54.00	-9.46	74.00	-29.46	400	121 Peak	Vertical	
7440.00	46.07	53.32	-7.25	54.00	-7.93	295	114 Average	Vertical	
7440.00	54.95	62.20	-7.25	74.00	-19.05	295	114 Peak	Vertical	

BLE_2M

Low Channel (Horizontal)

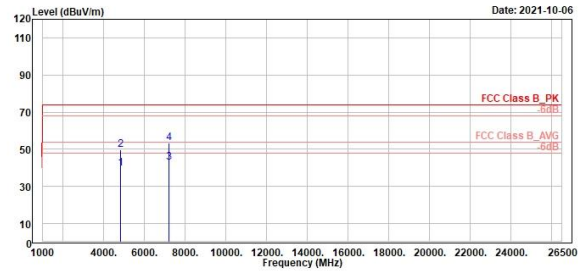
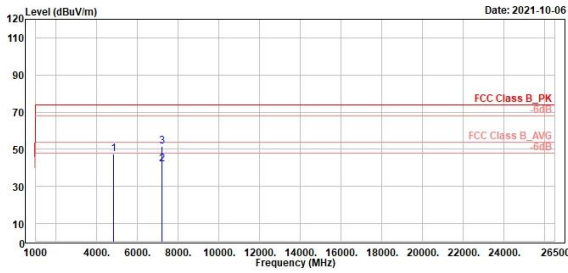
Low Channel (Vertical)



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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	4888.00	47.28	57.05	-9.77	74.00	-26.72	369	368 Peak	Horizontal
2	7212.00	41.76	49.01	-7.25	88.42	-46.66	100	219 Average	Horizontal
3	7212.00	51.64	58.89	-7.25	91.62	-39.98	100	219 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	4888.00	39.65	49.42	-9.77	54.00	-14.35	299	45 Average	Vertical
2	4888.00	49.85	59.62	-9.77	74.00	-24.15	299	45 Peak	Vertical
3	7212.00	43.05	50.30	-7.25	86.58	-43.53	311	114 Average	Vertical
4	7212.00	53.20	60.45	-7.25	86.58	-33.38	311	114 Peak	Vertical

BLE_2M

Middle Channel (Horizontal)

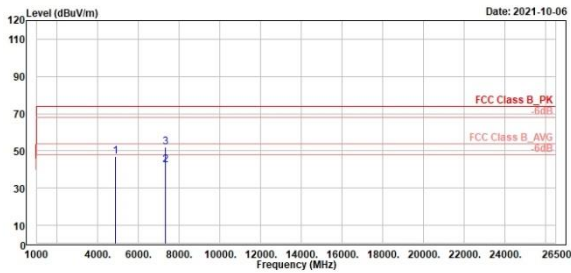
Middle Channel (Vertical)



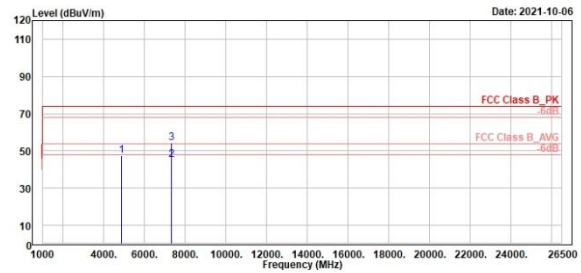
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	47.11	56.78	-9.67	74.00	-26.89	100	352 Peak	Horizontal	
2	7320.00	42.37	49.64	-7.27	54.00	-11.63	281	224 Average	Horizontal	
3	7320.00	51.95	59.22	-7.27	74.00	-22.05	281	224 Peak	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	47.68	57.35	-9.67	74.00	-26.32	300	116 Peak	Vertical	
2	7320.00	45.28	52.55	-7.27	54.00	-8.72	263	107 Average	Vertical	
3	7320.00	54.38	61.65	-7.27	74.00	-19.62	263	107 Peak	Vertical	

BLE_2M

High Channel (Horizontal)

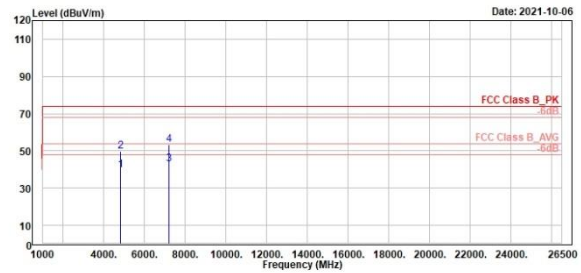
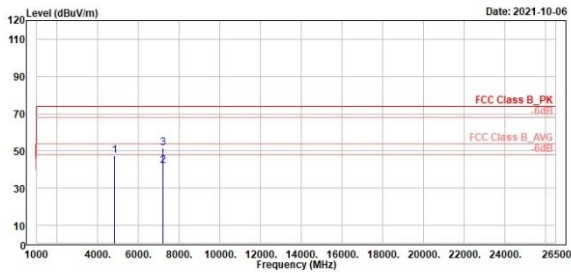
High Channel (Vertical)



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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	4888.00	47.28	57.05	-9.77	74.00	-26.72	369	368 Peak	Horizontal	
2	7212.00	41.76	49.01	-7.25	88.42	-46.66	100	219 Average	Horizontal	
3	7212.00	51.64	58.89	-7.25	91.62	-39.98	100	219 Peak	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	39.65	49.42	-9.77	54.00	-14.35	299	45 Average	Vertical	
2	4888.00	49.85	59.62	-9.77	74.00	-24.15	299	45 Peak	Vertical	
3	7212.00	43.05	50.30	-7.25	86.58	-43.53	311	114 Average	Vertical	
4	7212.00	53.20	60.45	-7.25	86.58	-33.38	311	114 Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)

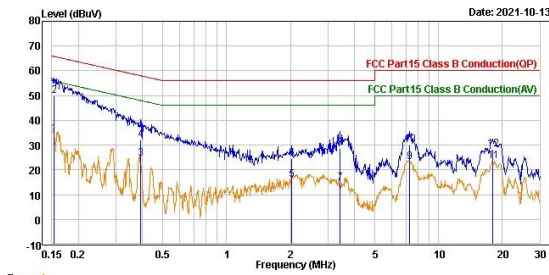
(Neutral)



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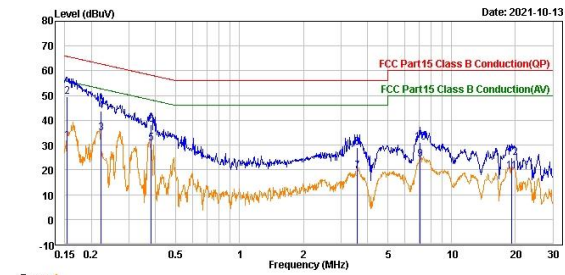


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Trace: 1

	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	34.48	24.42	10.06	55.79	-21.31	Average	line1	
2	0.15	49.81	39.75	10.06	65.79	-15.98	QP	line1	
3	0.39	24.71	14.64	10.07	47.97	-23.26	Average	line1	
4	0.39	31.94	21.87	10.07	57.57	-26.03	QP	line1	
5	2.03	16.10	5.98	10.12	46.00	-29.90	Average	line1	
6	2.03	24.53	14.41	10.12	56.00	-31.47	QP	line1	
7	3.41	14.49	4.35	10.16	46.00	-31.51	Average	line1	
8	3.41	28.53	18.37	10.16	56.00	-27.47	QP	line1	
9	7.32	23.23	12.96	10.27	50.00	-26.77	Average	line1	
10	7.32	29.92	19.65	10.27	60.00	-30.08	QP	line1	
11	18.04	23.41	12.90	10.51	50.00	-26.59	Average	line1	
12	18.04	28.49	17.98	10.51	60.00	-31.51	QP	line1	



Trace: 1

	Freq	Level	Read Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	31.74	21.70	10.04	55.79	-24.05	Average	neutral	
2	0.15	49.58	39.54	10.04	65.79	-16.21	QP	neutral	
3	0.22	34.98	24.94	10.04	52.77	-17.79	Average	neutral	
4	0.22	43.62	33.58	10.04	62.77	-19.15	QP	neutral	
5	0.38	30.80	20.75	10.05	48.22	-17.42	Average	neutral	
6	0.38	38.42	28.37	10.05	58.22	-19.80	QP	neutral	
7	3.59	19.45	9.30	10.15	46.00	-26.55	Average	neutral	
8	3.59	28.94	18.79	10.15	56.00	-27.06	QP	neutral	
9	7.10	24.06	13.81	10.25	50.00	-25.94	Average	neutral	
10	7.10	31.10	20.85	10.25	60.00	-28.90	QP	neutral	
11	19.16	19.56	9.05	10.51	50.00	-30.44	Average	neutral	
12	19.16	24.76	14.25	10.51	60.00	-35.24	QP	neutral	

Test Results of Radiated Spurious Emissions for Ant 4 (Non-ECC)

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

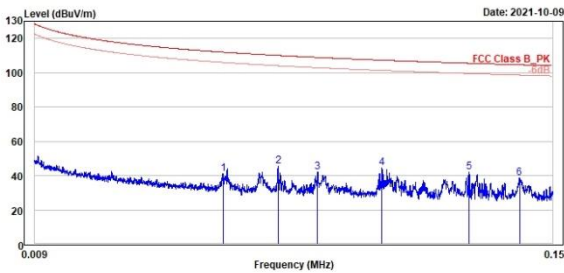
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



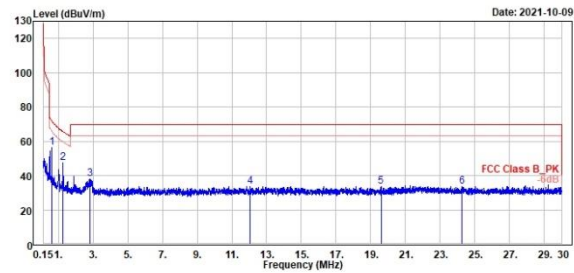
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Read Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.06	41.25	20.96	20.29	111.99	-70.74	100	164	QP	Open	
2	0.08	45.44	25.16	20.28	110.06	-64.62	100	181	QP	Open	
3	0.09	42.09	21.83	20.26	108.90	-66.81	100	187	QP	Open	
4	0.10	44.55	24.31	20.24	107.29	-62.74	100	181	QP	Open	
5	0.13	42.25	22.04	20.21	105.51	-63.26	100	134	QP	Open	
6	0.14	38.36	18.16	20.20	104.62	-66.26	100	150	QP	Open	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Read Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.64	56.18	36.06	20.12	71.53	-15.35	100	186	QP	Open	
2	1.28	47.39	27.18	20.21	65.49	-18.10	100	186	QP	Open	
3	2.84	38.06	17.90	20.16	69.50	-31.44	100	21	QP	Open	
4	12.04	33.05	13.47	20.38	69.50	-35.65	100	144	QP	Open	
5	19.59	33.54	13.05	20.49	69.50	-35.96	100	202	QP	Open	
6	24.27	33.45	12.92	20.53	69.50	-36.05	100	104	QP	Open	

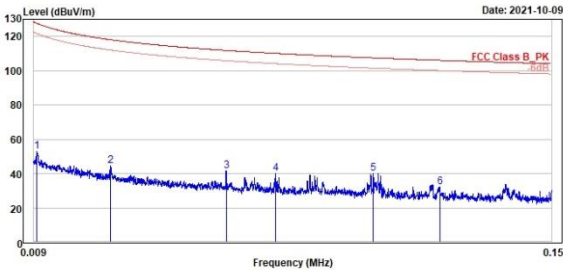
BLE_2M

High Channel (Close) 9kHz~150kHz

High Channel (Close) 150kHz~30MHz



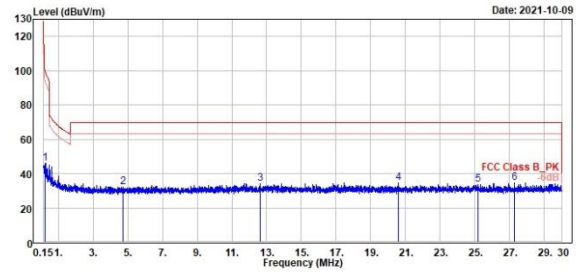
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	52.95	32.97	19.98	127.66	-74.71	100	19 QP	Close
2	0.03	44.52	24.21	20.31	118.06	-73.54	100	28 QP	Close
3	0.06	41.72	21.43	20.29	111.83	-70.11	100	91 QP	Close
4	0.07	39.98	19.71	20.27	110.11	-70.13	100	100 QP	Close
5	0.10	40.16	19.92	20.24	107.47	-67.31	100	100 QP	Close
6	0.12	32.15	11.93	20.22	106.05	-73.90	100	91 QP	Close

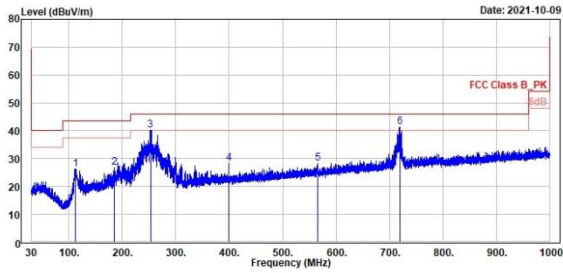


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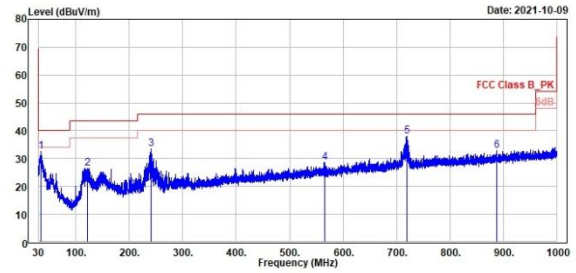


Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.26	46.11	25.97	20.14	99.29	-53.18	100	122 QP	Close
2	4.74	31.97	11.69	20.28	69.50	-37.53	100	193 QP	Close
3	12.64	34.03	13.63	20.40	69.50	-35.47	100	0 QP	Close
4	20.58	34.59	14.09	20.50	69.50	-34.91	100	351 QP	Close
5	25.16	33.57	13.02	20.55	69.50	-35.93	100	166 QP	Close
6	27.26	34.39	13.85	20.54	69.50	-35.11	100	145 QP	Close

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	112.45	26.28	36.96	-10.68	43.50	-17.22	200	182 QP	Horizontal
2	184.42	26.78	35.93	-9.15	43.50	-16.72	200	79 QP	Horizontal
3	252.52	48.07	48.17	-8.10	46.00	-5.93	100	79 QP	Horizontal
4	399.18	28.30	32.51	-4.21	46.00	-17.70	200	105 QP	Horizontal
5	565.25	28.42	30.43	-2.01	46.00	-17.58	200	121 QP	Horizontal
6	720.06	41.33	40.79	0.54	46.00	-4.67	100	150 QP	Horizontal


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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	33.88	32.67	41.53	-8.86	40.00	-7.33	100	360 QP	Vertical
2	122.15	26.40	36.14	-9.74	43.50	-17.10	100	178 QP	Vertical
3	240.01	33.42	41.73	-8.31	46.00	-12.58	100	163 QP	Vertical
4	565.63	28.54	30.55	-2.01	46.00	-17.46	200	218 QP	Vertical
5	720.06	38.08	37.54	0.54	46.00	-7.92	200	80 QP	Vertical
6	887.09	32.79	29.57	3.22	46.00	-13.21	200	28 QP	Vertical

Test Results of Radiated Spurious Emissions for ANT 4(ECC)_2nd Source Band Edges, 2.31GHz ~ 2.9GHz

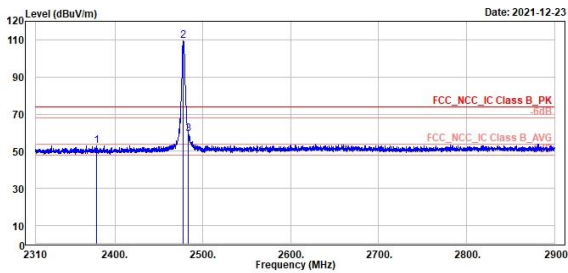
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



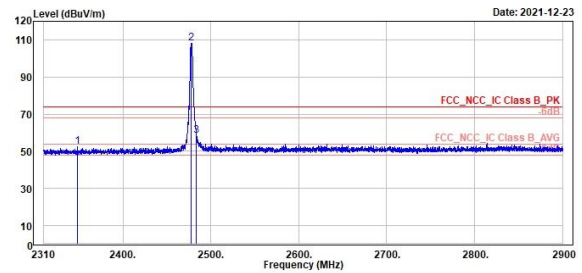
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.15	53.12	15.55	37.57	74.00	-20.88	100	325 Peak	Horizontal
2 *	2478.00	109.32	71.71	37.61	74.00	35.32	100	325 Peak	Horizontal
3	2483.46	59.45	21.85	37.60	74.00	-14.55	100	325 Peak	Horizontal



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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	2348.11	52.28	15.02	37.26	74.00	-21.72	329	104 Peak	Vertical
2 *	2478.00	108.11	70.42	37.69	74.00	34.11	329	104 Peak	Vertical
3	2483.58	58.60	20.87	37.73	74.00	-15.40	329	104 Peak	Vertical

BLE_2M

High Channel (Horizontal) Average

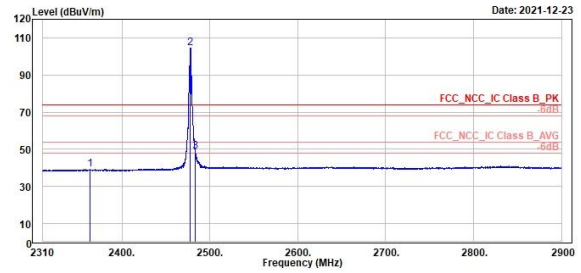
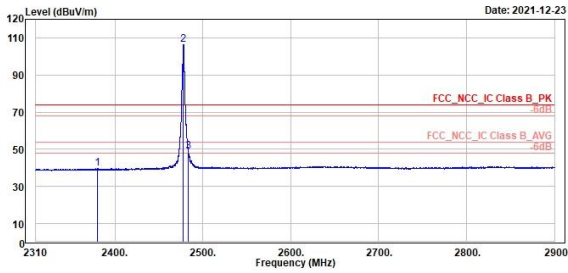
High Channel (Vertical) Average



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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	2379.97	39.66	2.09	37.57	54.00	-14.34	100	325 Average	Horizontal	
2 *	2478.00	106.25	68.74	37.61	54.00	52.35	100	325 Average	Horizontal	
3 !	2483.46	48.97	11.37	37.60	54.00	-5.03	100	325 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	2363.93	39.14	1.85	37.29	54.00	-14.86	329	104 Average	Vertical	
2 *	2478.00	104.68	66.99	37.69	54.00	50.68	329	104 Average	Vertical	
3 !	2483.46	48.90	11.17	37.73	54.00	-5.10	329	104 Average	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

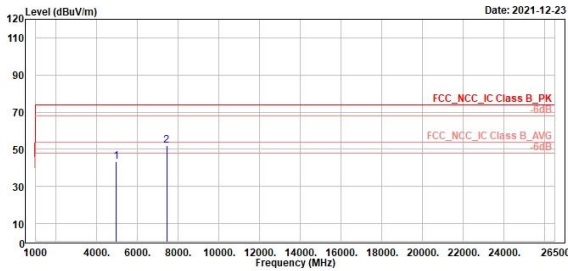
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



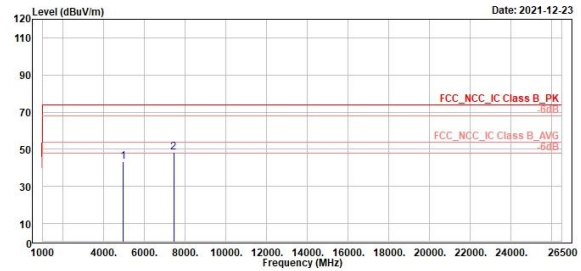
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4956.00	43.42	52.79	-9.37	74.00	-30.58	268	360 Peak	Horizontal	
2	7434.00	51.91	59.07	-7.16	74.00	-22.09	100	195 Peak	Horizontal	



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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	4956.00	43.14	52.90	-9.76	74.00	-30.86	300	334 Peak	Vertical	
2	7434.00	48.46	55.96	-7.50	74.00	-25.54	300	104 Peak	Vertical	

Test Results of Radiated Spurious Emissions for ANT 4(Non-ECC)_

2nd Source

Band Edges, 2.31GHz ~ 2.9GHz

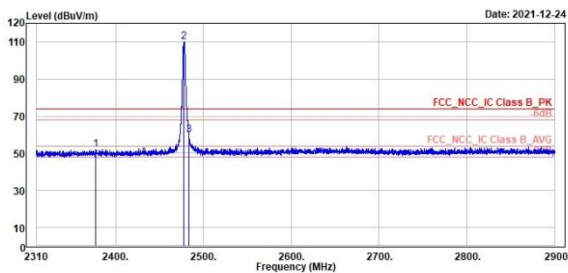
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



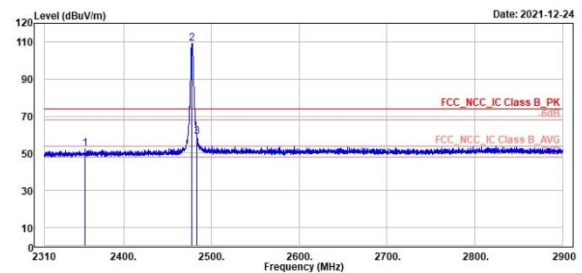
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2377.38	52.07	14.51	37.56	74.00	-21.93	100	314	Peak	Horizontal	
2 *	2478.00	109.97	72.36	37.61	74.00	35.97	100	314	Peak	Horizontal	
3	2483.46	59.56	21.96	37.60	74.00	-14.44	100	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	2355.90	52.29	15.01	37.28	74.00	-21.71	329	99	Peak	Vertical	
2 *	2478.00	109.17	71.48	37.69	74.00	35.17	329	99	Peak	Vertical	
3	2483.81	58.94	21.21	37.73	74.00	-15.06	329	99	Peak	Vertical	