

Appendix A: Test Results of Radiated Spurious Emissions

Model No.: ATAB8510B-V2.0
Field Strength of Fundamental, 433.92MHz

Horizontal

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Level (dBuV/m) Date: 2023-05-29

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	433.92	85.71	87.98	-2.27	100.83	-15.12	100	130	Peak	Horizontal	
2	433.92	72.80	75.07	-2.27	80.83	-8.03	100	130	Average	Horizontal	CF

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	433.92	85.71	87.98	-2.27	100.83	-15.12	100	130	Peak	Horizontal	
2	433.92	72.80	75.07	-2.27	80.83	-8.03	100	130	Average	Horizontal	CF

Vertical

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Level (dBuV/m) Date: 2023-05-29

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	433.92	75.96	78.23	-2.27	100.83	-24.87	100	5	Peak	Vertical	
2	433.92	63.05	65.32	-2.27	80.83	-17.78	100	5	Average	Vertical	CF

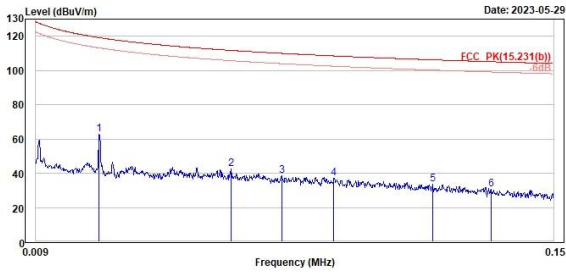
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	433.92	75.96	78.23	-2.27	100.83	-24.87	100	5	Peak	Vertical	
2	433.92	63.05	65.32	-2.27	80.83	-17.78	100	5	Average	Vertical	CF

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

9kHz~150kHz(Open)



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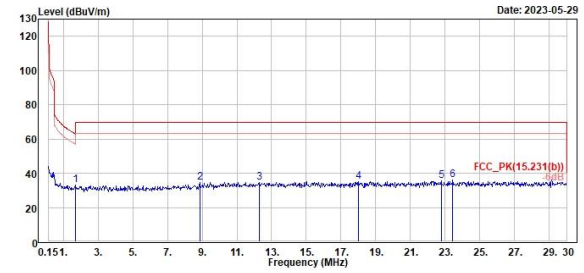


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	0.03	62.64	43.70	18.94	119.18	-56.54		100	339	Peak	Open	
2	0.06	42.59	23.76	18.83	111.72	-69.13		100	218	Peak	Open	
3	0.08	38.60	20.10	18.50	109.98	-71.38		100	211	Peak	Open	
4	0.09	36.88	18.73	18.15	108.49	-71.61		100	203	Peak	Open	
5	0.12	33.47	15.48	17.99	106.23	-72.76		100	211	Peak	Open	
6	0.13	30.53	12.48	18.05	105.12	-74.59		100	196	Peak	Open	

150kHz~30MHz(Open)



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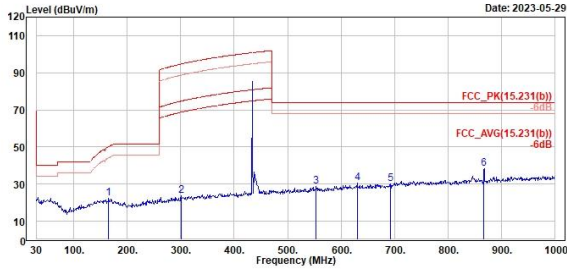
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	1.70	33.13	13.87	19.26	62.98	-29.85		100	41	Peak	Open	
2	8.87	34.36	13.33	21.03	69.50	-35.14		100	138	Peak	Open	
3	12.30	34.56	12.91	21.65	69.50	-34.94		100	128	Peak	Open	
4	18.00	34.99	12.96	22.03	69.50	-34.51		100	78	Peak	Open	
5	22.78	35.34	13.15	22.19	69.50	-34.16		100	292	Peak	Open	
6	23.43	36.32	14.13	22.19	69.50	-33.18		100	124	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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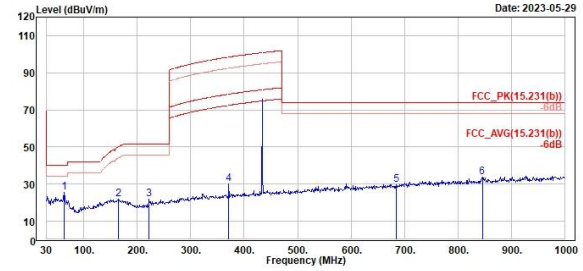


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	164.83	22.26	27.94	-5.68	50.18	-27.92	300	206	Peak	Horizontal		
2	300.63	23.72	28.43	-4.71	94.72	-71.00	200	231	Peak	Horizontal		
3	553.00	28.63	28.73	-0.10	74.00	-45.37	289	124	Peak	Horizontal		
4	630.43	30.60	29.57	1.03	74.00	-43.40	115	360	Peak	Horizontal		
5	692.51	30.27	28.43	1.84	74.00	-45.57	200	91	Peak	Horizontal		
6	867.84	38.22	34.02	4.20	74.00	-35.78	100	131	Peak	Horizontal		

Vertical



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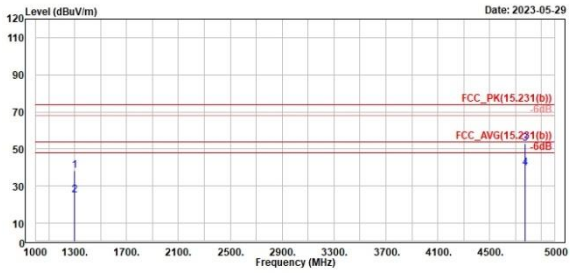
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	62.98	25.33	32.41	-7.08	40.00	-14.67	200	185	Peak	Vertical		
2	163.86	22.09	27.76	-5.67	50.03	-27.94	100	98	Peak	Vertical		
3	222.06	22.07	30.15	-8.08	51.48	-29.41	100	22	Peak	Vertical		
4	371.44	30.17	33.54	-3.37	98.48	-68.31	100	59	Peak	Vertical		
5	684.75	29.86	28.33	1.53	74.00	-44.14	200	179	Peak	Vertical		
6	845.77	33.96	29.86	4.10	74.00	-40.04	200	360	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 5GHz

Horizontal



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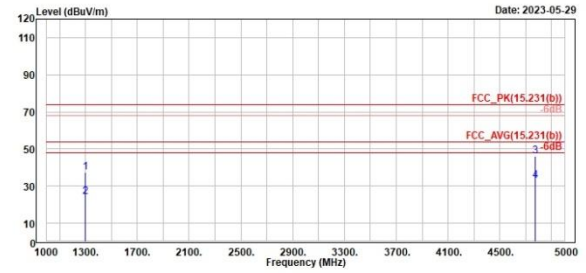


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	1301.76	38.17	55.68	-17.51	74.00	-35.83	300	105	Peak	Horizontal		
2	1301.76	25.26	42.77	-17.51	54.00	-28.74	300	105	Average	Horizontal	CF	
3	4773.12	52.74	60.67	-7.93	74.00	-21.26	300	2	Peak	Horizontal		
4	4773.12	39.83	47.76	-7.93	54.00	-14.17	300	2	Average	Horizontal	CF	

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	dB	cm	deg			
1	1301.76	37.19	54.70	-17.51	74.00	-36.81	300	340	Peak	Vertical		
2	1301.76	24.28	41.79	-17.51	54.00	-29.72	300	340	Average	Vertical	CF	
3	4773.12	45.96	53.89	-7.93	74.00	-28.04	300	101	Peak	Vertical		
4	4773.12	33.05	40.98	-7.93	54.00	-20.95	300	101	Average	Vertical	CF	

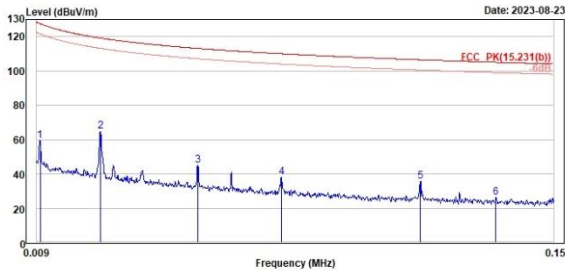
Model No.: ATA8710

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

9kHz~150kHz(Open)



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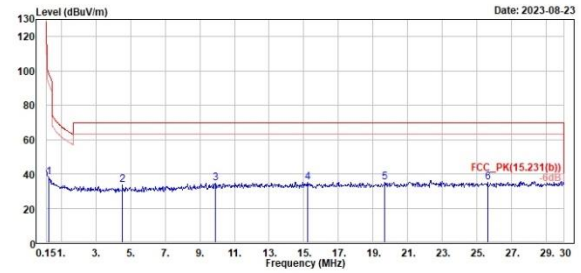


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	59.31	41.59	17.72	127.60	-68.29	100	266	Peak	Open	
2	0.03	64.52	45.57	18.95	119.13	-54.61	100	245	Peak	Open	
3	0.05	44.85	25.80	19.05	113.11	-68.26	100	143	Peak	Open	
4	0.08	37.82	19.32	18.50	110.00	-72.18	100	314	Peak	Open	
5	0.11	35.78	17.81	17.97	106.49	-70.71	100	360	Peak	Open	
6	0.13	26.26	8.20	18.06	105.04	-70.78	100	182	Peak	Open	

150kHz~30MHz(Open)



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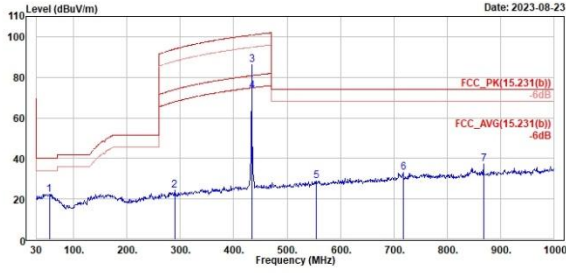
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.30	37.98	19.25	18.73	98.08	-60.10	100	296	Peak	Open	
2	4.54	33.65	14.17	19.48	69.50	-35.85	100	300	Peak	Open	
3	9.88	34.64	13.20	21.44	69.50	-34.86	100	57	Peak	Open	
4	15.22	35.08	13.24	21.84	69.50	-34.42	100	225	Peak	Open	
5	19.67	35.11	12.96	22.15	69.50	-34.39	100	237	Peak	Open	
6	25.61	35.05	12.85	22.20	69.50	-34.45	100	142	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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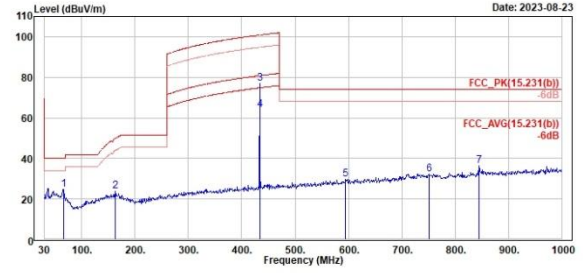


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	54.25	22.30	28.04	-5.74	40.00	-17.70		230	360	Peak	Horizontal	
2	288.99	24.28	29.28	-5.00	93.91	-69.63		100	224	Peak	Horizontal	
3	433.92	86.15	88.42	-2.27	100.83	-14.68		100	199	Peak	Horizontal	
4	433.92	73.24	75.51	-2.27	80.83	-7.59		100	199	Average	Horizontal	CF
5	554.77	28.96	29.00	-0.04	74.00	-45.04		300	191	Peak	Horizontal	
6	717.73	32.86	30.85	2.01	74.00	-41.14		200	211	Peak	Horizontal	
7	868.08	37.42	33.22	4.20	74.00	-36.58		100	306	Peak	Horizontal	

Vertical



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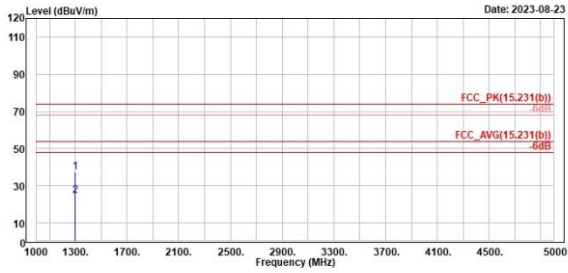
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	65.89	24.58	32.38	-7.80	40.00	-15.42		100	351	Peak	Vertical	
2	162.89	23.88	29.49	-5.61	49.88	-26.00		200	360	Peak	Vertical	
3	433.92	76.88	79.07	-2.27	100.83	-24.03		200	88	Peak	Vertical	
4	433.92	63.89	66.16	-2.27	80.83	-16.94		200	88	Average	Vertical	CF
5	594.54	29.58	29.22	0.36	74.00	-44.42		300	357	Peak	Vertical	
6	751.60	32.28	29.00	3.28	74.00	-41.72		120	360	Peak	Vertical	
7	844.80	36.36	32.24	4.12	74.00	-37.64		300	358	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 5GHz

Horizontal



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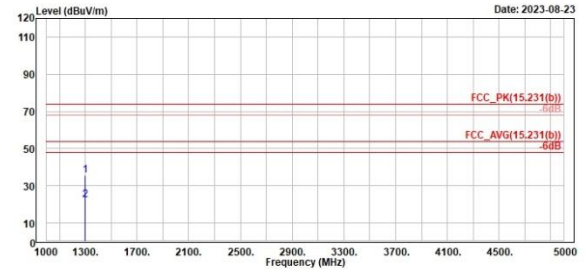


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	1301.76	37.37	55.38	-18.01	74.00	-36.63	156	360	Peak	Horizontal		
2	1301.76	24.46	42.47	-18.01	54.00	-29.54	156	360	Average	Horizontal	CF	

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	dB	cm	deg			
1	1301.76	35.38	53.39	-18.01	74.00	-38.62	200	278	Peak	Vertical		
2	1301.76	22.47	40.48	-18.01	54.00	-31.53	200	278	Average	Vertical	CF	