

Appendix D: Test Results of Radiated Spurious Emissions & Mains Conducted Emission for Dipole Antenna of TE Connectivity

Ant No.: 3

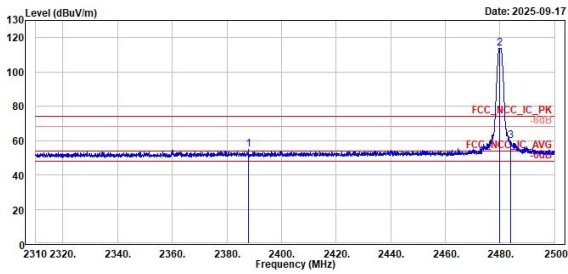
Band Edges, 2.31GHz ~ 2.5GHz

Bluetooth LE_1M

High Channel (Horizontal) Peak



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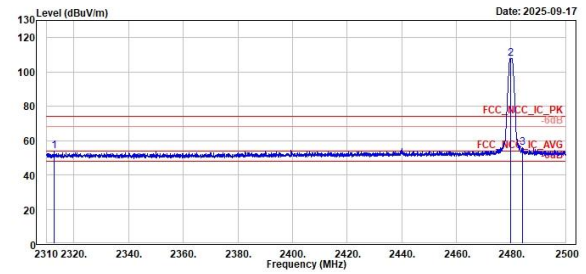


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.895	55.03	17.91	37.12	74.00	-18.97	314	286	Peak	Horizontal		
2	2480.000	113.78	76.27	37.51	74.00	39.78	314	286	Peak	Horizontal		
3	2483.897	59.76	22.25	37.51	74.00	-14.24	314	286	Peak	Horizontal		

High Channel (Vertical) Peak



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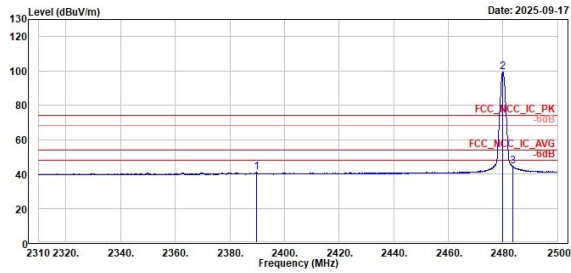
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2312.660	53.80	17.12	36.68	74.00	-20.20	321	199	Peak	Vertical		
2	2480.000	107.82	70.31	37.51	74.00	33.82	321	199	Peak	Vertical		
3	2484.087	55.63	18.12	37.51	74.00	-18.37	321	199	Peak	Vertical		

Bluetooth LE_1M

High Channel (Horizontal) Average



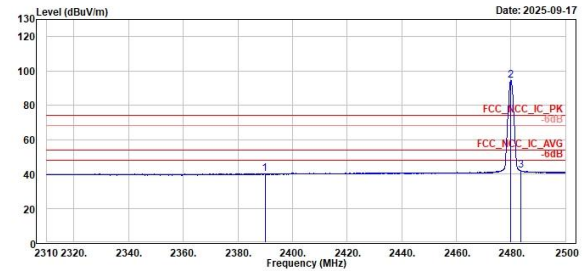
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.752	40.96	3.82	37.14	54.00	-13.04	314	286	Average	Horizontal	
2	2480.000	99.44	61.93	37.51	54.00	45.44	314	286	Average	Horizontal	
3	2483.565	44.26	6.75	37.51	54.00	-9.74	314	286	Average	Horizontal	



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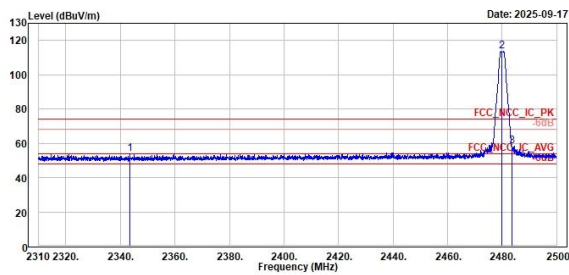
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.942	40.11	2.97	37.14	54.00	-13.89	321	199	Average	Vertical	
2	2480.000	94.48	56.97	37.51	54.00	40.48	321	199	Average	Vertical	
3	2483.660	41.97	4.46	37.51	54.00	-12.03	321	199	Average	Vertical	

Bluetooth LE_2M

High Channel (Horizontal) Peak



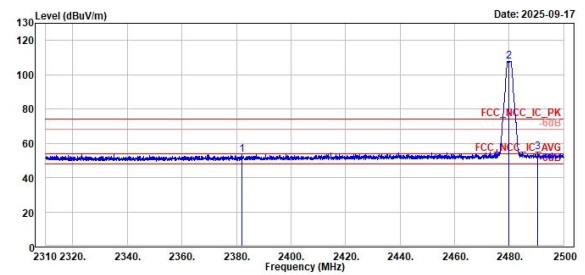
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.535	53.91	17.14	36.77	74.00	-20.09	365	311	Peak	Horizontal		
2 *	2480.000	113.59	76.08	37.51	74.00	39.59	365	311	Peak	Horizontal		
3	2483.518	58.40	20.89	37.51	74.00	-15.60	365	311	Peak	Horizontal		



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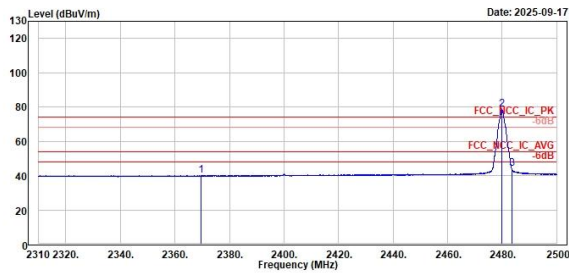
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2381.867	53.40	16.34	37.06	74.00	-20.60	358	192	Peak	Vertical		
2 *	2480.000	107.97	70.46	37.51	74.00	33.97	358	192	Peak	Vertical		
3	2490.405	54.96	17.44	37.52	74.00	-19.04	358	192	Peak	Vertical		

Bluetooth LE_2M

High Channel (Horizontal) Average



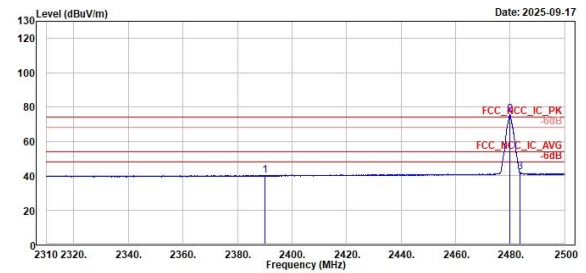
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.613	40.09	3.13	36.96	54.00	-13.91	365	311	Average	Horizontal		
2	2480.000	78.59	41.08	37.51	54.00	24.59	365	311	Average	Horizontal		
3	2483.500	44.04	6.53	37.51	54.00	-9.96	365	311	Average	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	2389.990	40.05	2.01	37.14	54.00	-13.95	358	192	Average	Vertical		
2	2480.000	75.40	37.09	37.51	54.00	21.40	358	192	Average	Vertical		
3	2483.500	42.16	4.65	37.51	54.00	-11.84	358	192	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

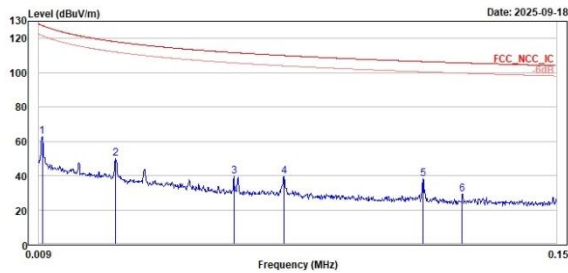
Bluetooth LE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



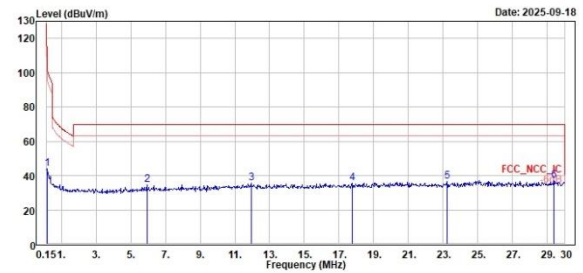
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.010	62.91	44.79	18.12	127.60	-64.69	100	242	Peak	Open		
2	0.030	50.03	30.01	20.02	118.05	-68.02	100	340	Peak	Open		
3	0.062	39.33	21.28	18.05	111.72	-72.39	100	235	Peak	Open		
4	0.076	39.30	20.95	18.35	110.00	-70.70	100	0	Peak	Open		
5	0.114	38.00	19.89	18.11	106.49	-68.49	100	0	Peak	Open		
6	0.124	29.03	10.85	18.18	105.71	-76.68	100	16	Peak	Open		



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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	0.210	43.80	25.17	18.63	101.17	-57.37	100	346	Peak	Open		
2	5.941	34.38	13.69	20.69	69.50	-35.12	100	351	Peak	Open		
3	11.941	35.51	13.75	21.76	69.50	-33.99	100	116	Peak	Open		
4	17.762	35.67	13.09	22.58	69.50	-33.83	100	201	Peak	Open		
5	23.224	36.52	14.37	22.15	69.50	-32.98	100	264	Peak	Open		
6	29.373	36.96	13.69	23.27	69.50	-32.54	100	184	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

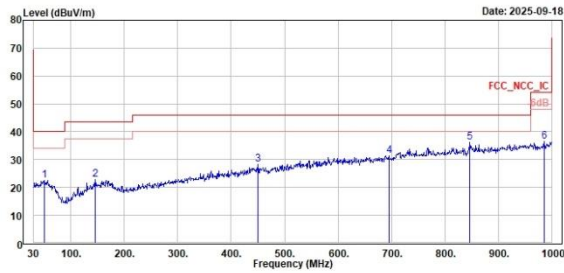
Bluetooth LE_2M

High Channel (Horizontal)

High Channel (Vertical)



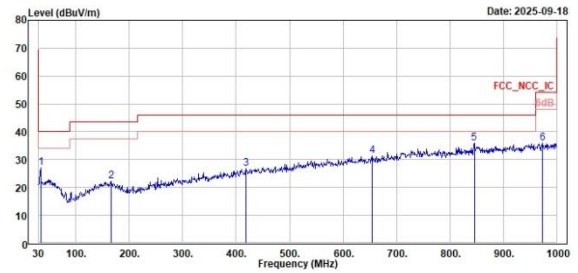
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	50.378	22.55	28.23	-5.68	40.00	-17.45	100	113 Peak	Horizontal	
2	145.430	22.71	28.88	-6.17	43.50	-20.79	100	236 Peak	Horizontal	
3	450.010	28.16	29.54	-1.38	46.00	-17.84	100	12 Peak	Horizontal	
4	695.420	31.32	28.24	3.08	46.00	-14.68	100	104 Peak	Horizontal	
5	846.740	36.23	31.13	5.10	46.00	-9.77	100	116 Peak	Horizontal	
6	985.450	36.56	29.36	7.20	54.00	-17.44	100	5 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	33.880	26.92	34.34	-7.42	40.00	-13.08	100	53 Peak	Vertical	
2	166.770	22.32	28.06	-5.74	43.50	-21.18	100	360 Peak	Vertical	
3	418.000	26.71	28.95	-2.24	46.00	-19.29	100	294 Peak	Vertical	
4	654.680	31.45	29.01	2.44	46.00	-14.55	100	314 Peak	Vertical	
5	845.770	35.77	30.68	5.09	46.00	-10.23	100	139 Peak	Vertical	
6	972.840	35.83	29.02	6.81	54.00	-18.17	100	255 Peak	Vertical	

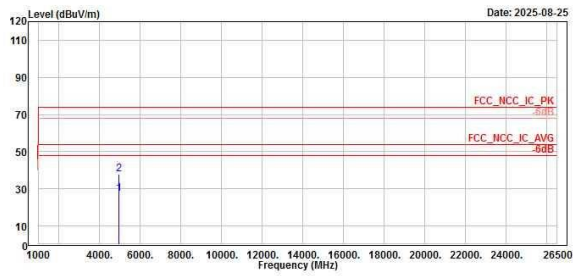
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

Bluetooth LE_1M

High Channel (Horizontal)



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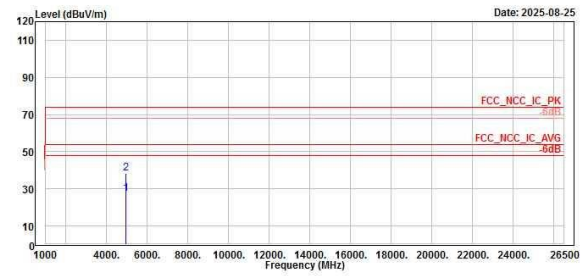


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4960.000	27.49	37.88	-10.39	54.00	-26.51	300	192 Average	Horizontal	
2	4960.000	37.96	48.35	-10.39	74.00	-36.04	300	192 Peak	Horizontal	

High Channel (Vertical)



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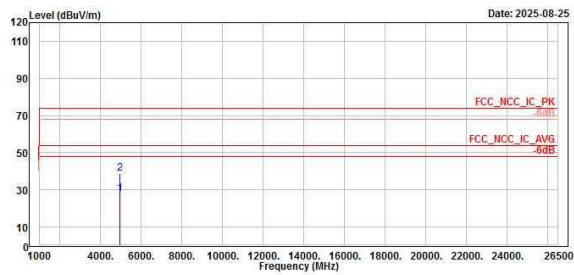
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level	Line	Limit	dB	cm	deg		
1	4960.000	27.58	37.97	-10.39	54.00	-26.42	100	66 Average	Vertical	
2	4960.000	38.45	48.84	-10.39	74.00	-35.55	100	66 Peak	Vertical	

Bluetooth LE_2M

High Channel (Horizontal)



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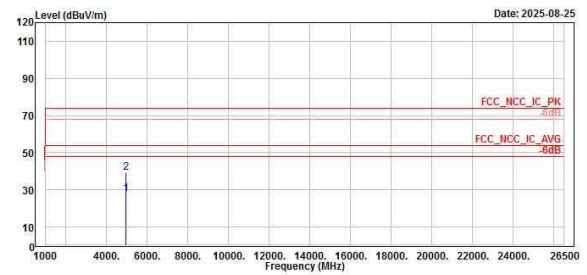


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.000	27.94	38.33	-10.39	54.00	-26.06		300	144	Average	Horizontal	
2	4960.000	38.57	48.96	-10.39	74.00	-35.43		300	144	Peak	Horizontal	

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	dB	cm	deg			
1	4960.000	27.97	38.36	-10.39	54.00	-26.03		200	44	Average	Vertical	
2	4960.000	39.23	49.62	-10.39	74.00	-34.77		200	44	Peak	Vertical	

Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

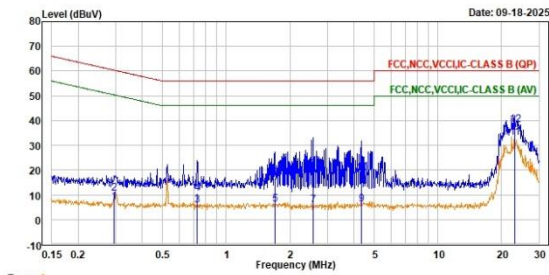
Worst Band

(Line)

(Neutral)



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