

Appendix C: Test Results of Radiated Spurious Emissions & Mains Conducted Emission for Dipole Antenna of Molex

Ant No.: 2

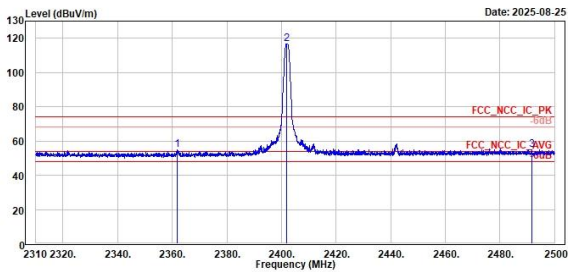
Band Edges, 2.31GHz ~ 2.5GHz

Bluetooth LE_1M

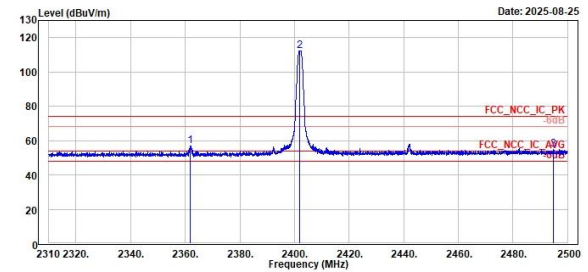
Low Channel (Horizontal) Peak



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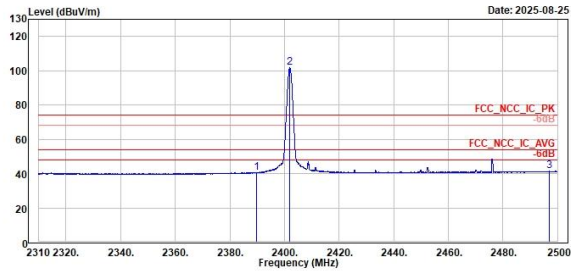


Bluetooth LE_1M

Low Channel (Horizontal) Average



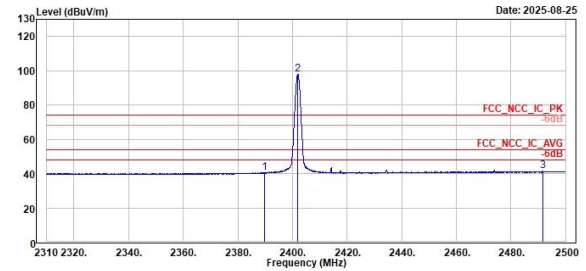
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.795	40.67	3.53	37.14	54.00	-13.33		344	357	Average	Horizontal	
2 *	2402.000	101.60	64.36	37.24	54.00	47.60		344	357	Average	Horizontal	
3	2497.008	41.47	3.95	37.52	54.00	-12.53		344	357	Average	Horizontal	



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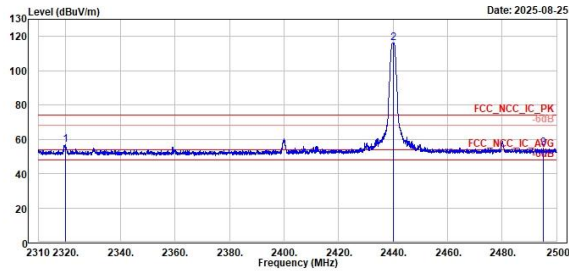
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.895	40.51	3.37	37.14	54.00	-13.49		305	68	Average	Vertical	
2 *	2402.000	98.02	60.78	37.24	54.00	44.02		305	68	Average	Vertical	
3	2491.782	41.28	3.76	37.52	54.00	-12.72		305	68	Average	Vertical	

Bluetooth LE_1M

Middle Channel (Horizontal) Peak



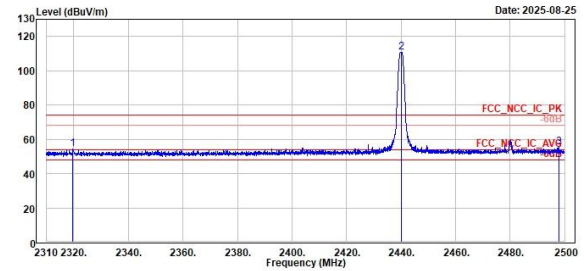
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2319.833	57.08	20.39	36.69	74.00	-16.92	300	341	Peak	Horizontal		
2 *	2440.000	116.18	78.75	37.43	74.00	42.18	300	341	Peak	Horizontal		
3	2495.868	55.03	17.51	37.52	74.00	-18.97	300	341	Peak	Horizontal		



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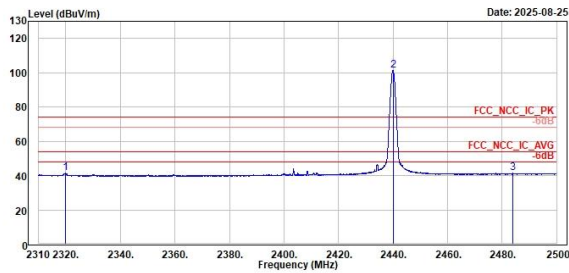
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2319.595	54.25	17.56	36.69	74.00	-19.75	294	268	Peak	Vertical		
2 *	2440.000	110.70	73.27	37.43	74.00	36.70	294	268	Peak	Vertical		
3	2497.768	55.45	17.93	37.52	74.00	-18.55	294	268	Peak	Vertical		

Bluetooth LE_1M

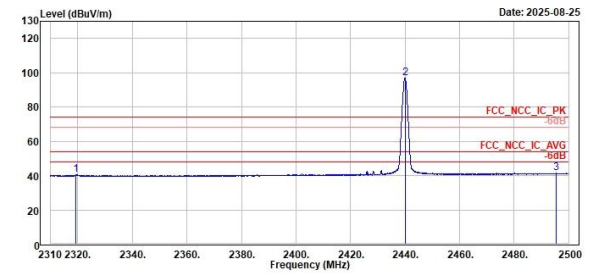
Middle Channel (Horizontal) Average



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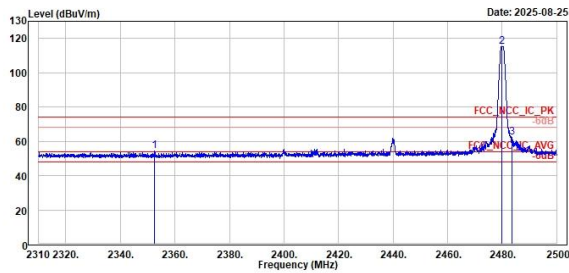


Bluetooth LE_1M

High Channel (Horizontal) Peak



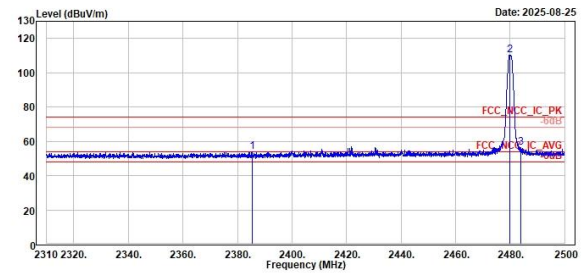
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2352.417	54.15	17.35	36.80	74.00	-19.85	238	344	Peak	Horizontal		
2	2480.000	115.34	77.83	37.51	74.00	41.34	238	344	Peak	Horizontal		
3	2483.613	62.07	24.56	37.51	74.00	-11.93	238	344	Peak	Horizontal		



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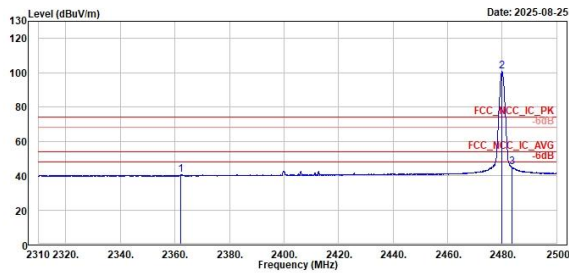
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.288	53.67	16.57	37.10	74.00	-20.33	322	78	Peak	Vertical		
2	2480.000	110.11	72.60	37.51	74.00	36.11	322	78	Peak	Vertical		
3	2483.945	56.31	18.80	37.51	74.00	-17.69	322	78	Peak	Vertical		

Bluetooth LE_1M

High Channel (Horizontal) Average



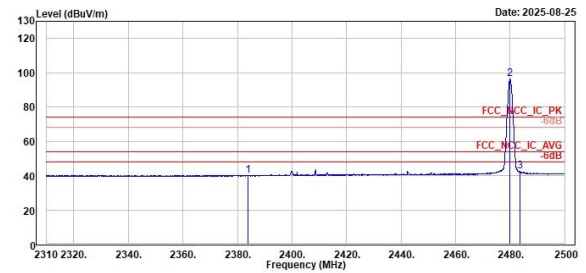
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2362.258	40.40	3.51	36.89	54.00	-13.60	238	344	Average	Horizontal		
2	2480.000	100.74	63.23	37.51	54.00	46.74	238	344	Average	Horizontal		
3	2483.518	45.05	7.54	37.51	54.00	-8.95	238	344	Average	Horizontal		



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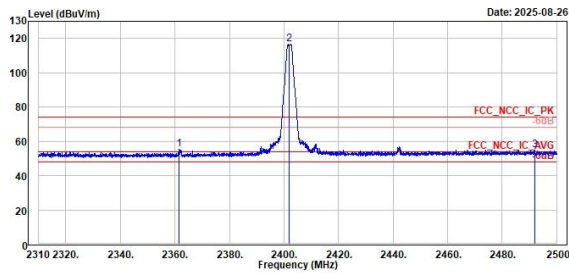
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.863	40.18	3.10	37.08	54.00	-13.82	322	78	Average	Vertical		
2	2480.000	96.20	58.69	37.51	54.00	42.20	322	78	Average	Vertical		
3	2483.500	42.38	4.87	37.51	54.00	-11.62	322	78	Average	Vertical		

Bluetooth LE_2M

Low Channel (Horizontal) Peak



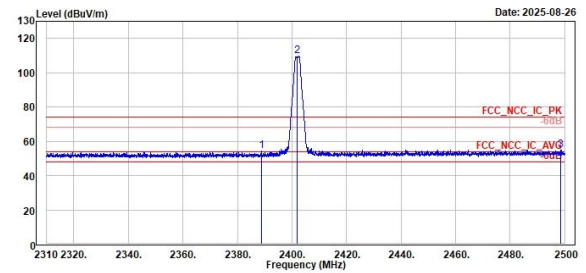
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2361.498	55.25	18.37	36.88	74.00	-18.75	344	357	Peak	Horizontal		
2 *	2402.000	116.53	79.29	37.24	74.00	42.53	344	357	Peak	Horizontal		
3	2491.877	54.66	17.14	37.52	74.00	-19.34	344	357	Peak	Horizontal		



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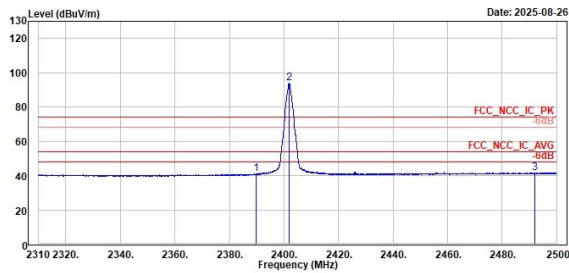
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.708	54.39	17.26	37.13	74.00	-19.61	297	80	Peak	Vertical		
2 *	2402.000	109.51	72.27	37.24	74.00	35.51	297	80	Peak	Vertical		
3	2498.670	54.90	17.38	37.52	74.00	-19.10	297	80	Peak	Vertical		

Bluetooth LE_2M

Low Channel (Horizontal) Average



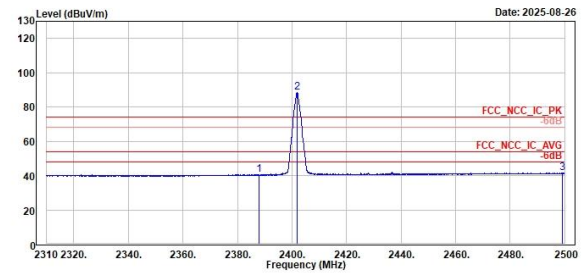
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.785	40.98	3.84	37.14	54.00	-13.02	344	357	Average	Horizontal		
2	2402.000	93.76	56.52	37.24	54.00	39.76	344	357	Average	Horizontal		
3	2492.067	41.57	4.05	37.52	54.00	-12.43	344	357	Average	Horizontal		



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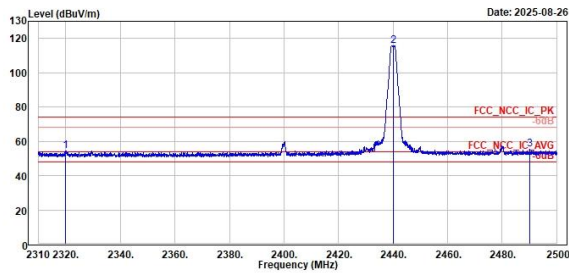
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.900	40.55	3.43	37.12	54.00	-13.45	297	80	Average	Vertical		
2	2402.000	88.62	51.38	37.24	54.00	34.62	297	80	Average	Vertical		
3	2499.192	41.48	3.96	37.52	54.00	-12.52	297	80	Average	Vertical		

Bluetooth LE_2M

Middle Channel (Horizontal) Peak



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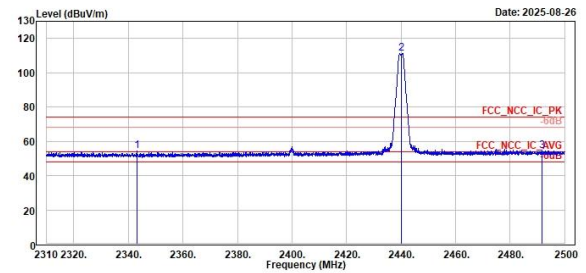


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2319.927	54.30	17.61	36.69	74.00	-19.70	300	340	Peak	Horizontal		
2	* 2440.000	115.91	78.48	37.43	74.00	41.91	300	340	Peak	Horizontal		
3	2490.167	55.50	17.98	37.52	74.00	-18.50	300	340	Peak	Horizontal		

Middle Channel (Vertical) Peak



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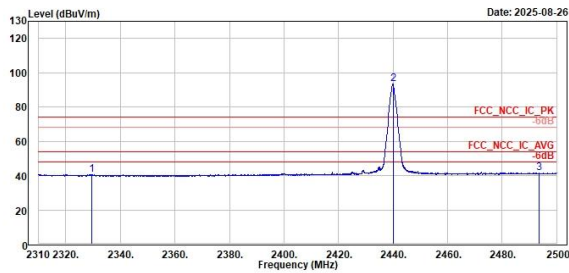
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2343.155	54.15	17.38	36.77	74.00	-19.85	336	268	Peak	Vertical		
2	* 2440.000	111.21	73.78	37.43	74.00	37.21	336	268	Peak	Vertical		
3	2491.593	54.50	16.98	37.52	74.00	-19.50	336	268	Peak	Vertical		

Bluetooth LE_2M

Middle Channel (Horizontal) Average



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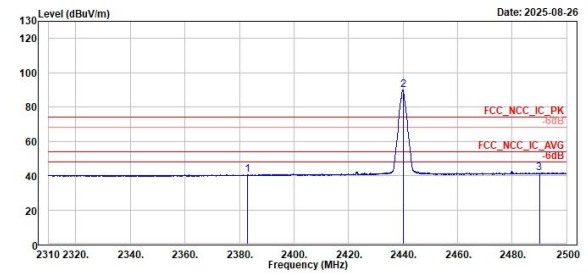


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2329.475	40.68	3.88	36.72	54.00	-13.40	300	340	Average	Horizontal		
2	2440.000	93.49	56.06	37.43	54.00	39.49	300	340	Average	Horizontal		
3	2493.635	41.47	3.95	37.52	54.00	-12.53	300	340	Average	Horizontal		

Middle 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	dB	cm	deg			
1	2383.055	40.58	3.51	37.07	54.00	-13.42	336	268	Average	Vertical		
2	2440.000	89.91	52.48	37.43	54.00	35.91	336	268	Average	Vertical		
3	2489.978	41.49	3.97	37.52	54.00	-12.51	336	268	Average	Vertical		

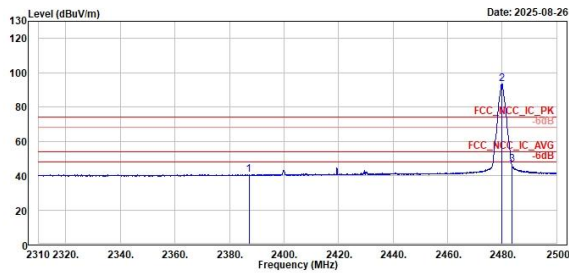
	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2328.498	53.85	17.16	36.69	74.00	-20.15	323	78	Peak	Vertical	
2 *	2480.000	109.83	72.32	37.51	74.00	-35.83	323	78	Peak	Vertical	
3	2485.417	56.00	18.49	37.51	74.00	-18.00	323	78	Peak	Vertical	

Bluetooth LE_2M

High Channel (Horizontal) Average



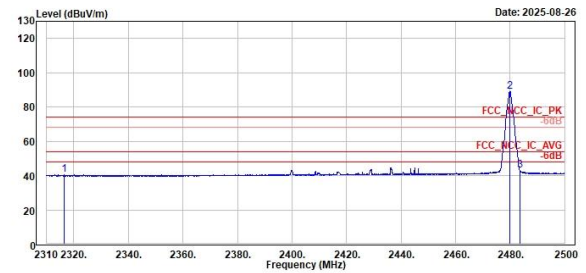
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1 2387.148	40.54	3.42	37.12	54.00	-13.46	237	355	Average	Horizontal		
2 * 2480.000	93.46	55.95	37.51	54.00	39.46	237	355	Average	Horizontal		
3 2483.500	46.46	8.95	37.51	54.00	-7.54	237	355	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 2316.317	40.53	3.85	36.68	54.00	-13.47	323	78	Average	Vertical		
2 * 2480.000	89.14	51.63	37.51	54.00	35.14	323	78	Average	Vertical		
3 2483.500	42.94	5.43	37.51	54.00	-11.06	323	78	Average	Vertical		

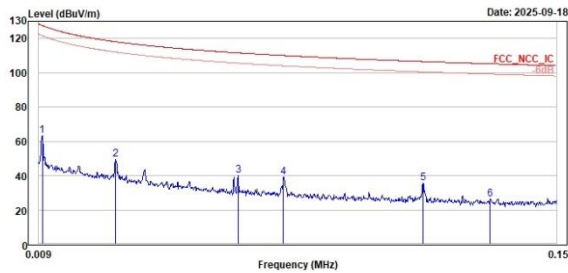
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

Bluetooth LE_1M

Middle Channel (Open) 9kHz~150kHz



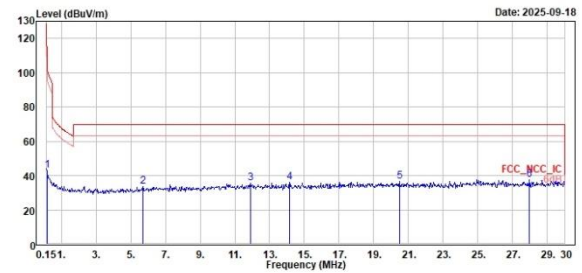
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.010	63.07	44.95	18.12	127.60	-64.53	100	355	Peak	Open		
2	0.030	49.55	29.53	20.02	118.05	-68.50	100	353	Peak	Open		
3	0.063	40.05	21.93	18.12	111.57	-71.52	100	197	Peak	Open		
4	0.076	39.15	20.79	18.36	110.01	-70.86	100	63	Peak	Open		
5	0.114	35.83	17.72	18.11	106.49	-70.66	100	93	Peak	Open		
6	0.132	26.42	8.20	18.22	105.19	-78.77	100	261	Peak	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	0.100	42.76	24.24	18.52	102.50	-59.74	100	242	Peak	Open		
2	5.702	33.76	13.34	20.42	69.50	-35.74	100	354	Peak	Open		
3	11.881	35.53	13.78	21.75	69.50	-33.97	100	313	Peak	Open		
4	14.150	36.04	14.44	21.60	69.50	-33.46	100	185	Peak	Open		
5	20.478	36.74	13.96	22.78	69.50	-32.76	100	49	Peak	Open		
6	27.970	37.44	14.38	23.06	69.50	-32.06	100	71	Peak	Open		

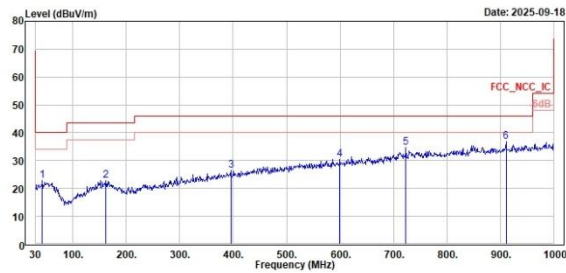
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Bluetooth LE_1M

Middle Channel (Horizontal)



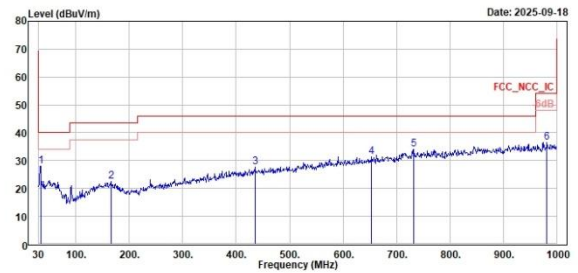
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	42.618	22.87	29.15	-6.28	48.00	-17.13	100	343 Peak	Horizontal	
2	161.920	22.77	28.42	-5.65	43.50	-20.73	100	214 Peak	Horizontal	
3	395.690	26.52	29.14	-2.62	46.00	-19.48	100	213 Peak	Horizontal	
4	599.390	30.37	28.91	1.46	46.00	-15.63	100	64 Peak	Horizontal	
5	723.550	34.72	31.11	3.61	46.00	-11.28	100	172 Peak	Horizontal	
6	910.760	36.79	30.44	6.35	46.00	-9.21	100	351 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	27.90	35.32	-7.42	48.00	-12.10	100	34 Peak	Vertical	
2	165.800	22.48	28.11	-5.63	43.50	-21.02	100	296 Peak	Vertical	
3	435.460	27.62	29.38	-1.76	46.00	-18.38	100	109 Peak	Vertical	
4	653.710	31.46	29.06	2.40	46.00	-14.54	100	100 Peak	Vertical	
5	732.280	34.07	30.37	3.70	46.00	-11.93	100	331 Peak	Vertical	
6	981.570	36.52	29.49	7.03	54.00	-17.48	100	191 Peak	Vertical	

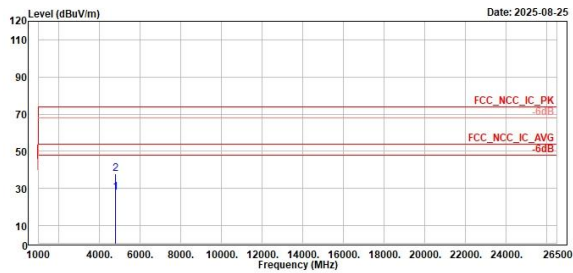
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

Bluetooth LE_1M

Low Channel (Horizontal)



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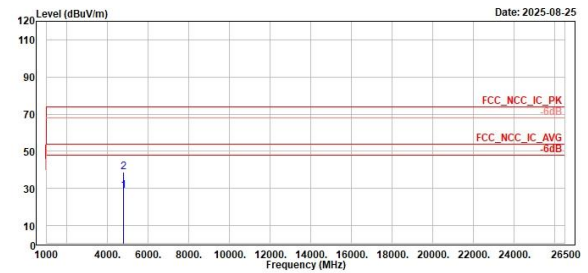


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.000	27.89	38.64	-10.75	54.00	-26.11	378	360	Average	Horizontal		
2	4804.000	37.85	48.60	-10.75	74.00	-36.15	378	360	Peak	Horizontal		

Low Channel (Vertical)



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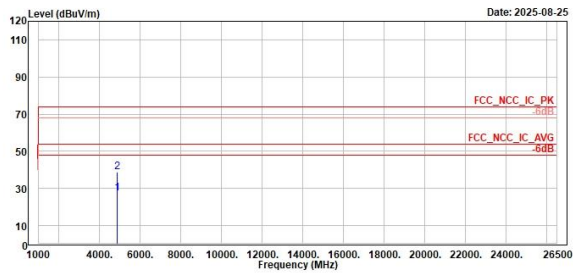
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.000	28.81	39.56	-10.75	54.00	-25.19	180	118	Average	Vertical		
2	4804.000	38.71	49.46	-10.75	74.00	-35.29	180	118	Peak	Vertical		

Bluetooth LE_1M

Middle Channel (Horizontal)



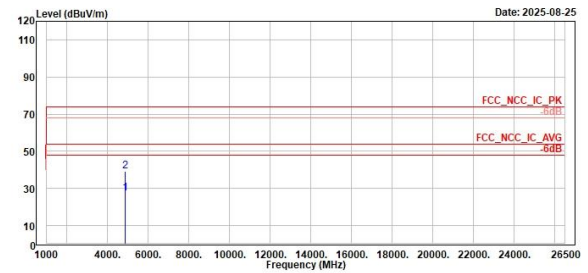
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.000	27.43	37.99	-10.56	54.00	-26.57	200	133	Average	Horizontal		
2	4880.000	38.84	49.40	-10.56	74.00	-35.16	200	133	Peak	Horizontal		



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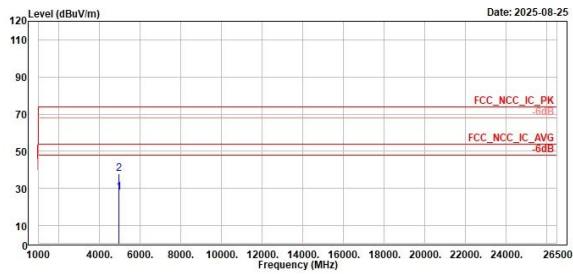
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.000	27.51	38.07	-10.56	54.00	-26.49	300	293	Average	Vertical		
2	4880.000	39.03	49.59	-10.56	74.00	-34.97	300	293	Peak	Vertical		

Bluetooth LE_1M

High Channel (Horizontal)



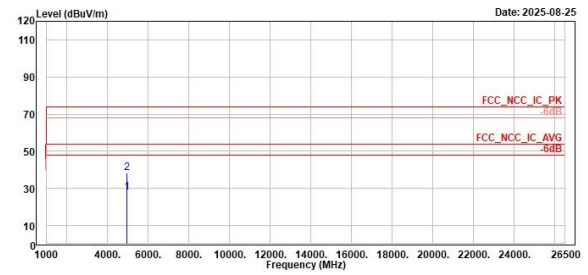
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.000	27.61	38.00	-10.39	54.00	-26.39	300	276	Average	Horizontal		
2	4960.000	38.04	48.43	-10.39	74.00	-35.96	300	276	Peak	Horizontal		



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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	4960.000	27.63	38.02	-10.39	54.00	-26.37	100	90	Average	Vertical		
2	4960.000	38.53	48.92	-10.39	74.00	-35.47	100	90	Peak	Vertical		

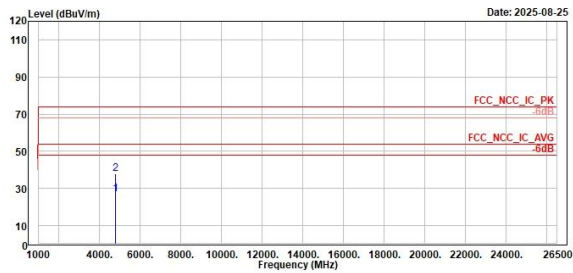
Bluetooth LE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



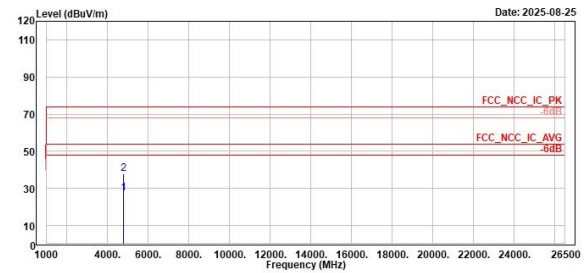
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.000	27.01	37.76	-10.75	54.00	-26.99	480	35	Average	Horizontal		
2	4804.000	37.95	48.70	-10.75	74.00	-36.05	480	35	Peak	Horizontal		



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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	4804.000	27.31	38.06	-10.75	54.00	-26.69	180	139	Average	Vertical		
2	4804.000	37.86	48.61	-10.75	74.00	-36.14	180	139	Peak	Vertical		

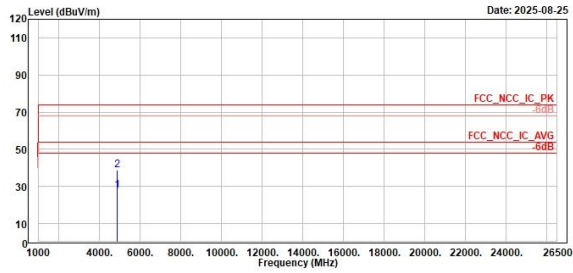
Bluetooth LE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



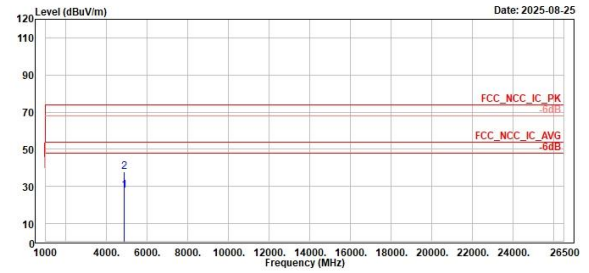
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.000	27.95	38.51	-10.56	54.00	-26.05	300	0	Average	Horizontal		
2	4880.000	38.75	49.31	-10.56	74.00	-35.25	300	0	Peak	Horizontal		



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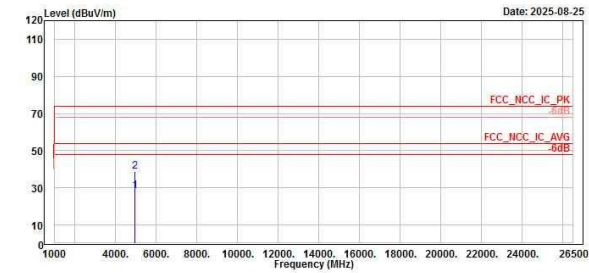
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4880.000	27.87	38.43	-10.56	54.00	-26.13	300	203	Average	Vertical		
2	4880.000	37.95	48.51	-10.56	74.00	-36.05	300	203	Peak	Vertical		

Bluetooth LE_2M

High Channel (Horizontal)



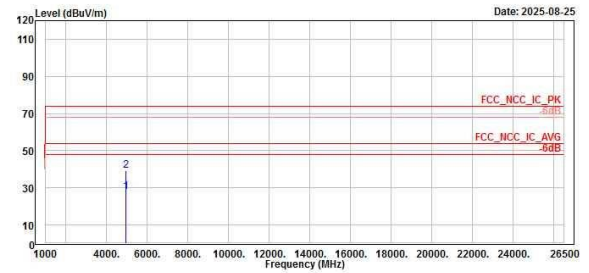
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.000	28.10	38.49	-10.39	54.00	-25.90		300	68	Average	Horizontal	
2	4960.000	38.70	49.09	-10.39	74.00	-35.30		300	68	Peak	Horizontal	



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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	dB	cm	deg			
1	4960.000	28.04	38.43	-10.39	54.00	-25.96		183	360	Average	Vertical	
2	4960.000	39.32	49.71	-10.39	74.00	-34.68		183	360	Peak	Vertical	

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

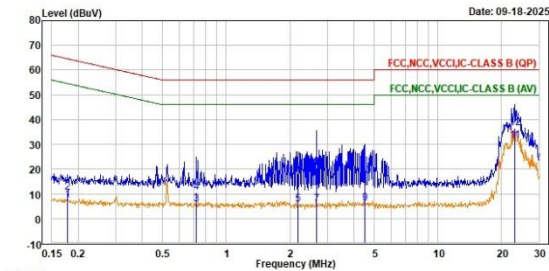
Worst Band

(Line)

(Neutral)



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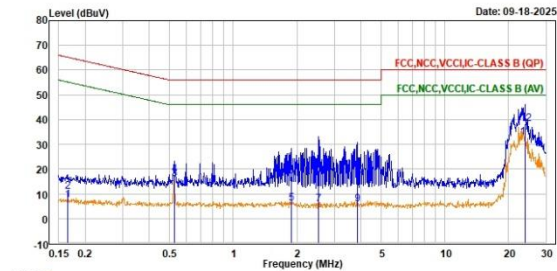


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.179	7.32	-2.31	9.63	54.55	-47.23 Average	line1
2	0.179	10.67	1.04	9.63	64.55	-53.88 QP	line1
3	0.725	5.89	-3.74	9.63	46.00	-40.11 Average	line1
4	0.725	10.55	0.92	9.63	56.00	-45.45 QP	line1
5	2.180	5.60	-4.06	9.66	46.00	-40.40 Average	line1
6	2.180	18.02	8.36	9.66	56.00	-37.98 QP	line1
7	2.661	5.71	-3.95	9.66	46.00	-40.29 Average	line1
8	2.661	20.56	10.90	9.66	56.00	-35.44 QP	line1
9	4.514	5.93	-3.76	9.69	46.00	-40.07 Average	line1
10	4.514	17.12	7.43	9.69	56.00	-38.88 QP	line1
11	23.035	31.38	21.66	9.72	50.00	-18.62 Average	line1
12	23.035	36.62	26.90	9.72	60.00	-23.38 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.165	7.44	-2.20	9.64	55.21	-47.77 Average	neutral
2	0.165	10.81	1.17	9.64	65.21	-54.40 QP	neutral
3	0.527	16.00	6.37	9.63	46.00	-30.00 Average	neutral
4	0.527	17.03	8.20	9.63	56.00	-30.17 QP	neutral
5	1.887	6.22	-3.44	9.66	46.00	-39.78 Average	neutral
6	1.887	16.88	7.22	9.66	56.00	-39.12 QP	neutral
7	2.532	5.60	-4.07	9.67	46.00	-40.40 Average	neutral
8	2.532	19.46	9.79	9.67	56.00	-36.54 QP	neutral
9	3.848	5.77	-3.92	9.69	46.00	-40.23 Average	neutral
10	3.848	17.34	7.65	9.69	56.00	-38.66 QP	neutral
11	23.853	32.72	22.87	9.85	50.00	-17.28 Average	neutral
12	23.853	38.23	28.38	9.85	60.00	-21.77 QP	neutral