

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

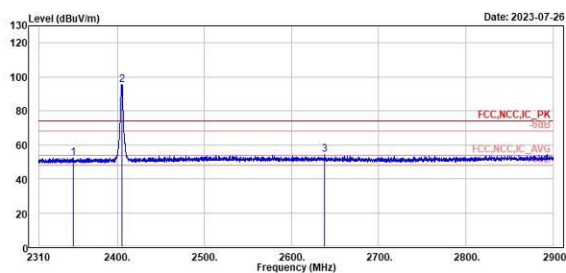
Band Edges, 2.31GHz ~ 2.9GHz

IEEE802.15.4

Low Channel (Horizontal) Peak



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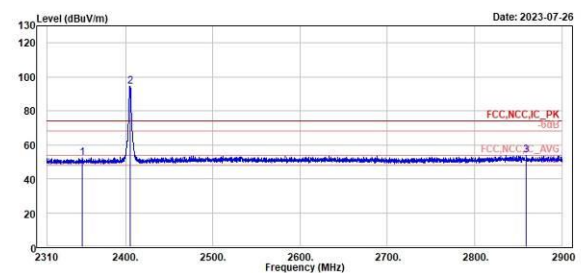


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2349.41	52.59	15.53	37.06	74.00	-21.41	103	67	Peak	Horizontal		
2 *	2405.00	95.68	58.46	37.14	74.00	21.68	103	67	Peak	Horizontal		
3	2638.04	54.29	16.99	37.30	74.00	-19.71	103	67	Peak	Horizontal		

Low Channel (Vertical) Peak



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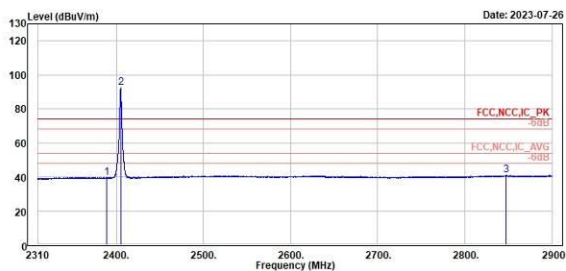
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2350.47	52.37	15.31	37.06	74.00	-21.63	368	70	Peak	Vertical		
2 *	2405.00	94.52	57.30	37.14	74.00	20.52	368	70	Peak	Vertical		
3	2858.58	53.76	16.00	37.76	74.00	-20.24	368	70	Peak	Vertical		

IEEE802.15.4

Low Channel (Horizontal) Average



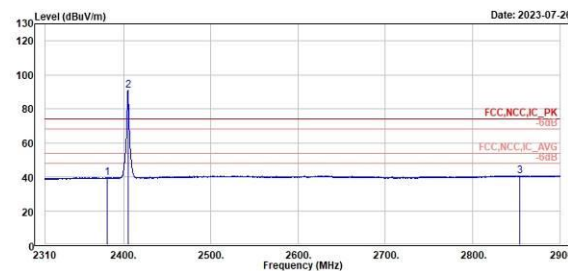
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Low Channel (Vertical) Average



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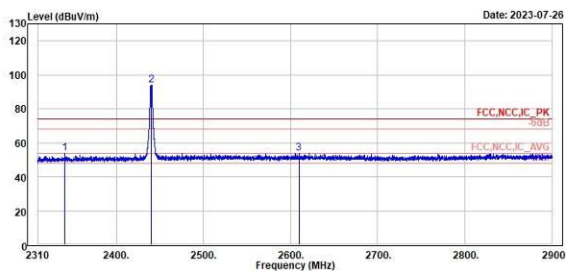


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Middle Channel (Horizontal) Peak



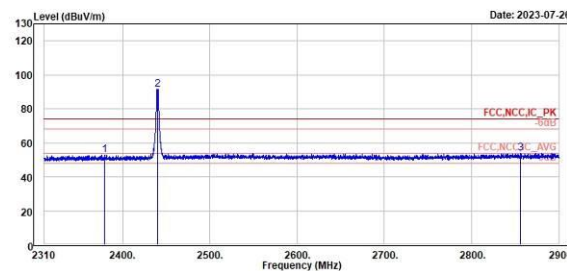
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2340.92	53.70	16.70	37.00	74.00	-20.30	151	67	Peak	Horizontal	
2 *	2440.00	99.74	56.36	37.38	74.00	19.74	151	67	Peak	Horizontal	
3	2609.37	53.97	16.53	37.44	74.00	-20.03	151	67	Peak	Horizontal	



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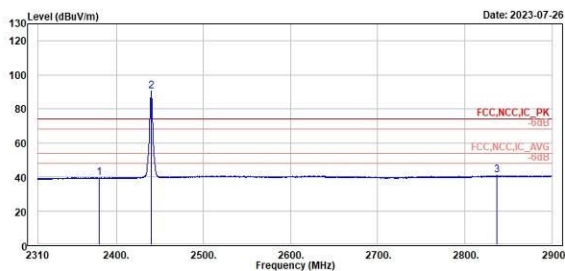
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2379.62	53.01	15.92	37.09	74.00	-20.99	123	85	Peak	Vertical	
2 *	2440.00	91.51	54.13	37.38	74.00	17.51	123	85	Peak	Vertical	
3	2856.22	54.07	16.32	37.75	74.00	-19.93	123	85	Peak	Vertical	

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Middle Channel (Horizontal) Average



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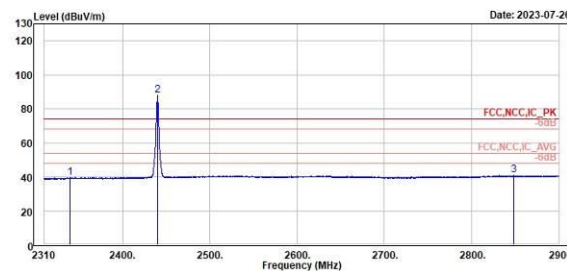


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.09	39.51	2.42	37.09	54.00	-14.49	151	67	Average	Horizontal		
2 *	2440.00	90.29	52.91	37.38	54.00	36.29	151	67	Average	Horizontal		
3	2836.99	40.96	3.35	37.61	54.00	-13.04	151	67	Average	Horizontal		

Middle Channel (Vertical) Average



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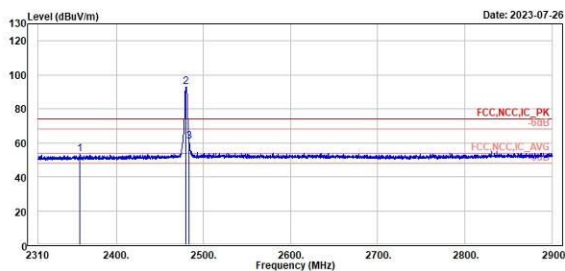
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2339.62	39.56	2.57	36.99	54.00	-14.44	123	85	Average	Vertical		
2 *	2440.00	88.01	50.63	37.38	54.00	34.01	123	85	Average	Vertical		
3	2847.84	40.90	3.20	37.70	54.00	-13.10	123	85	Average	Vertical		

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High Channel (Horizontal) Peak



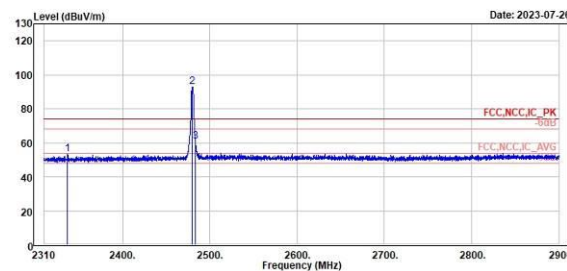
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2358.58	53.23	16.16	37.07	74.00	-20.77	100	38	Peak	Horizontal	
2 *	2480.00	93.00	55.52	37.48	74.00	19.00	100	38	Peak	Horizontal	
3	2483.58	60.99	23.51	37.48	74.00	-13.01	100	38	Peak	Horizontal	



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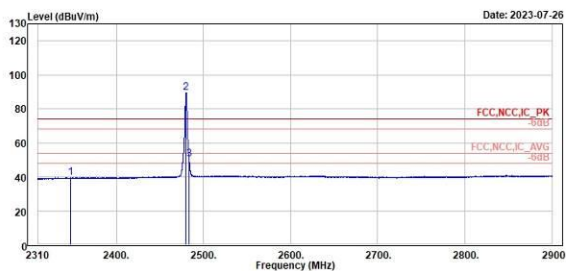
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2337.26	53.18	16.21	36.97	74.00	-20.82	392	71	Peak	Vertical	
2 *	2480.00	92.88	55.40	37.48	74.00	18.88	392	71	Peak	Vertical	
3	2483.46	60.81	23.33	37.48	74.00	-13.19	392	71	Peak	Vertical	

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High Channel (Horizontal) Average



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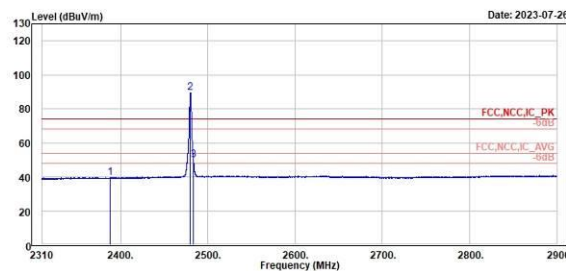


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2347.29	39.64	2.60	37.04	54.00	-14.36	100	38	Average	Horizontal		
2 *	2480.00	89.60	52.12	37.48	54.00	35.60	100	38	Average	Horizontal		
3 †	2483.46	50.32	12.84	37.48	54.00	-3.68	100	38	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	dB	cm	deg			
1	2380.35	39.55	2.45	37.10	54.00	-14.45	392	71	Average	Vertical		
2 *	2480.00	89.46	51.98	37.48	54.00	35.46	392	71	Average	Vertical		
3 †	2483.46	49.98	12.50	37.48	54.00	-4.02	392	71	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

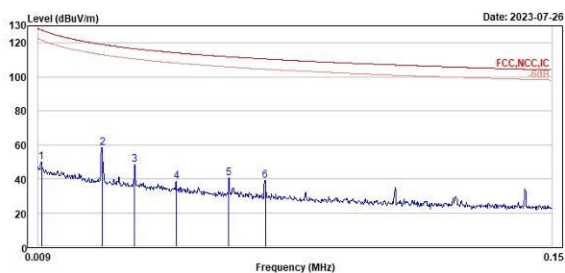
IEEE802.15.4

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



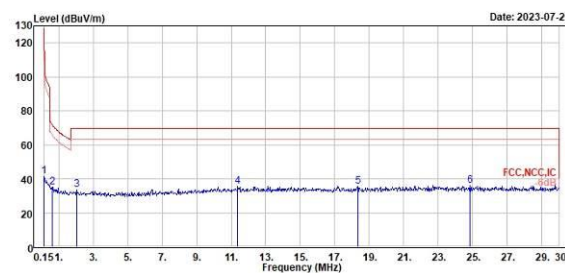
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	49.70	31.98	17.72	127.60	-77.90	100	249 Peak	Open	
2	0.03	58.45	39.49	18.96	119.08	-68.63	100	249 Peak	Open	
3	0.04	48.24	29.86	19.18	116.58	-68.34	100	123 Peak	Open	
4	0.05	38.43	19.29	19.14	114.16	-75.73	100	108 Peak	Open	
5	0.06	40.64	21.79	18.85	111.84	-71.20	100	272 Peak	Open	
6	0.07	39.12	20.51	18.61	110.53	-71.41	100	175 Peak	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	0.15	41.53	23.40	18.13	104.88	-62.55	100	165 Peak	Open	
2	0.63	35.32	16.41	18.91	71.65	-36.33	100	341 Peak	Open	
3	2.03	33.76	14.39	19.37	69.50	-35.74	100	4 Peak	Open	
4	11.37	35.62	13.97	21.65	69.50	-33.88	100	278 Peak	Open	
5	18.33	35.63	13.50	22.13	69.50	-33.87	100	344 Peak	Open	
6	24.84	36.13	13.85	22.28	69.50	-33.37	100	12 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

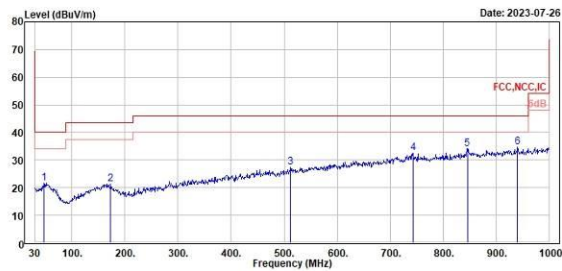
IEEE802.15.4

High Channel (Horizontal)

High Channel (Vertical)



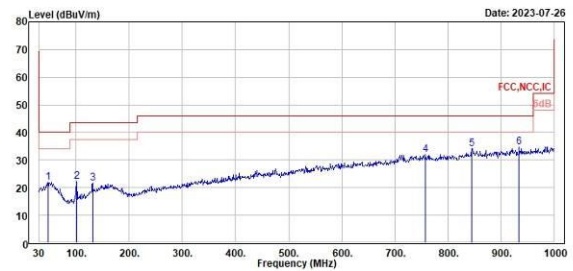
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	46.49	21.73	28.85	-7.12	40.00	-18.27	300	178 Peak	Horizontal	
2	172.59	21.41	28.75	-7.34	43.50	-22.09	300	120 Peak	Horizontal	
3	512.09	27.23	29.64	-2.41	46.00	-18.77	200	230 Peak	Horizontal	
4	742.95	32.41	30.02	2.39	46.00	-13.59	103	360 Peak	Horizontal	
5	845.77	34.09	30.39	3.70	46.00	-11.91	200	71 Peak	Horizontal	
6	940.83	34.83	29.96	4.87	46.00	-11.17	400	15 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	46.49	22.01	29.13	-7.12	40.00	-17.99	100	98 Peak	Vertical	
2	100.81	22.30	34.24	-11.94	43.50	-21.20	200	193 Peak	Vertical	
3	130.68	21.61	30.65	-9.04	43.50	-21.89	300	260 Peak	Vertical	
4	750.47	31.92	29.09	2.83	46.00	-14.00	200	328 Peak	Vertical	
5	844.80	34.21	30.49	3.72	46.00	-11.79	109	360 Peak	Vertical	
6	934.04	34.75	29.71	5.04	46.00	-11.25	200	360 Peak	Vertical	

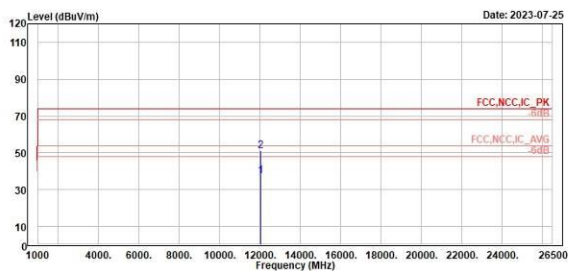
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

IEEE802.15.4

Low Channel (Horizontal)



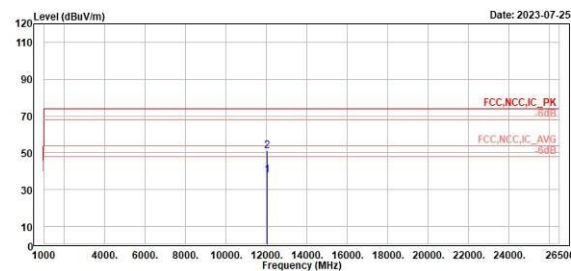
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Low Channel (Vertical)



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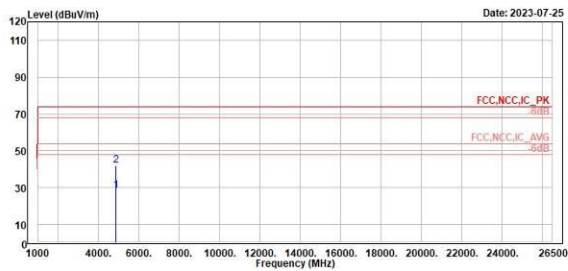


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Middle Channel (Horizontal)



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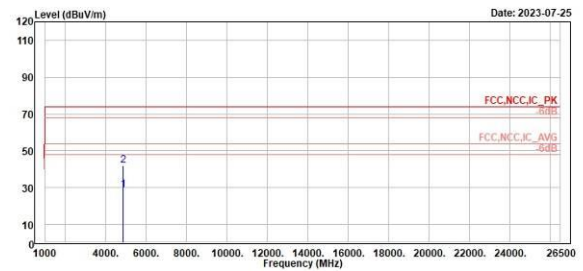


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	28.39	38.72	-10.33	54.00	-25.61		300	199	Average	Horizontal	
2	4880.00	42.02	52.35	-10.33	74.00	-31.98		300	199	Peak	Horizontal	

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	dB	cm	deg			
1	4880.00	28.59	38.92	-10.33	54.00	-25.41		200	360	Average	Vertical	
2	4880.00	42.13	52.46	-10.33	74.00	-31.87		200	360	Peak	Vertical	

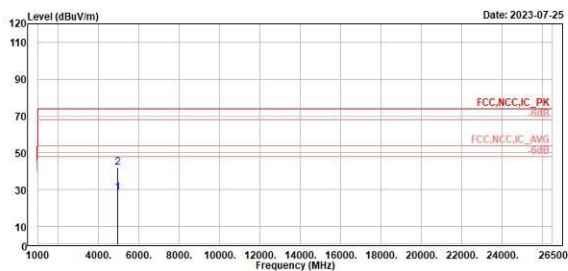
IEEE802.15.4

High Channel (Horizontal)

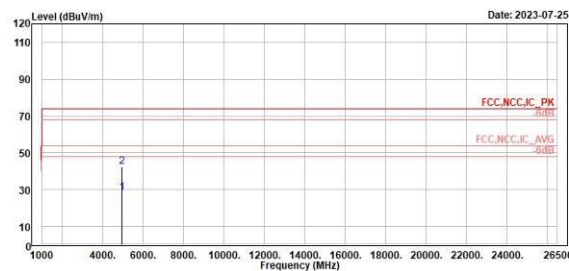
High Channel (Vertical)



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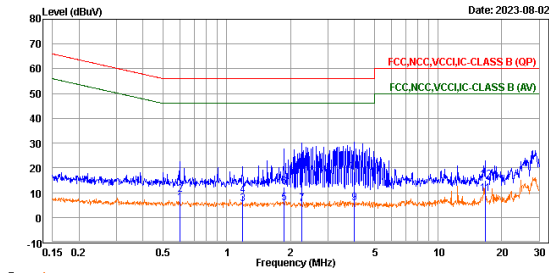
Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

(Line)



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(Neutral)



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