

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

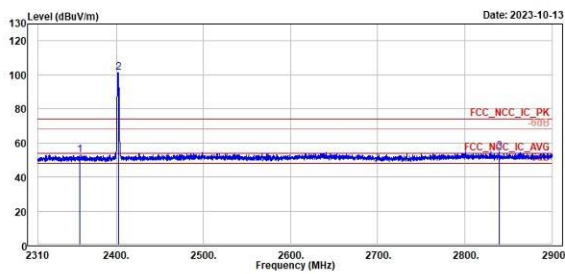
Band Edges, 2.31GHz ~ 2.9GHz

BLE_1M

Low Channel (Horizontal) Peak



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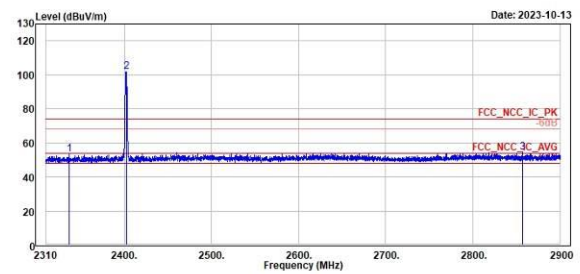


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2358.14	53.11	15.91	37.28	74.00	-20.89	155	319	Peak	Horizontal		
2 *	2402.00	101.27	64.10	37.17	74.00	27.27	155	319	Peak	Horizontal		
3	2839.35	54.67	16.90	37.77	74.00	-19.33	155	319	Peak	Horizontal		

Low Channel (Vertical) Peak



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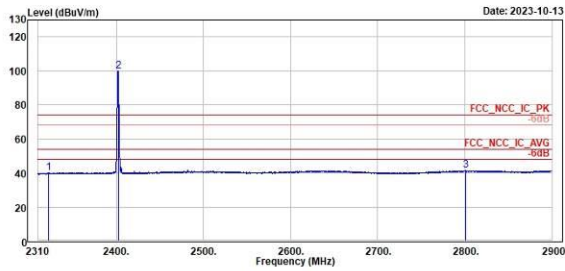
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2336.79	53.23	16.14	37.09	74.00	-20.77	122	297	Peak	Vertical		
2 *	2402.00	101.95	64.78	37.17	74.00	27.95	122	297	Peak	Vertical		
3	2857.05	54.45	16.65	37.80	74.00	-19.55	122	297	Peak	Vertical		

BLE_1M

Low Channel (Horizontal) Average



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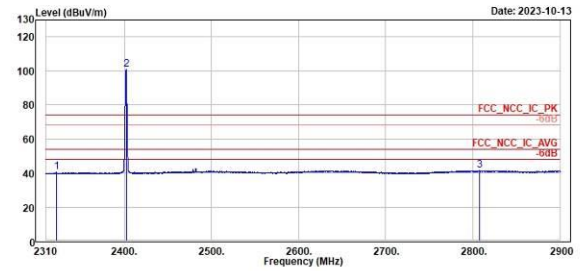


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2321.92	40.09	3.13	36.96	54.00	-13.91	155	319	Average	Horizontal		
2 *	2402.00	100.01	62.84	37.17	54.00	46.01	155	319	Average	Horizontal		
3	2800.64	41.37	3.63	37.74	54.00	-12.63	155	319	Average	Horizontal		

Low Channel (Vertical) Average



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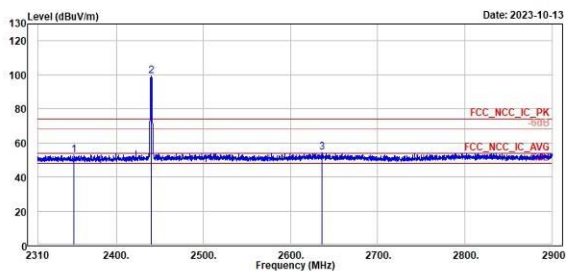
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2322.04	40.40	3.44	36.96	54.00	-13.60	122	297	Average	Vertical		
2 *	2402.00	100.72	63.55	37.17	54.00	46.72	122	297	Average	Vertical		
3	2807.25	41.42	3.68	37.74	54.00	-12.58	122	297	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Peak



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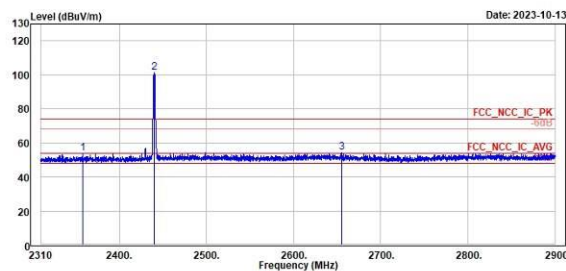


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2358.95	52.83	15.62	37.21	74.00	-21.17	100	317 Peak	Horizontal		
2 *	2440.00	99.40	61.96	37.44	74.00	25.40	100	317 Peak	Horizontal		
3	2636.27	54.39	16.77	37.62	74.00	-19.61	100	317 Peak	Horizontal		

Middle Channel (Vertical) Peak



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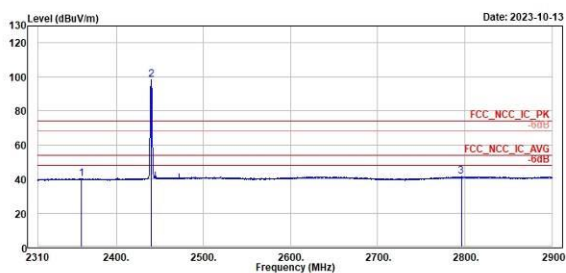
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2357.91	53.93	16.73	37.20	74.00	-20.07	100	298 Peak	Vertical		
2 *	2440.00	101.13	63.69	37.44	74.00	27.13	100	298 Peak	Vertical		
3	2655.27	54.16	16.58	37.58	74.00	-19.84	100	298 Peak	Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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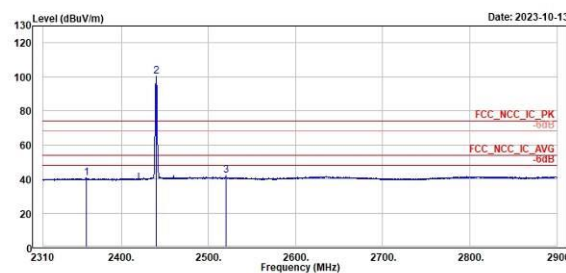


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2369.03	40.13	2.93	37.20	54.00	-13.87	100	317	Average	Horizontal	
2 *	2440.00	90.39	60.95	37.44	54.00	44.39	100	317	Average	Horizontal	
3	2795.57	41.38	3.69	37.69	54.00	-12.62	100	317	Average	Horizontal	

Middle Channel (Vertical) Average



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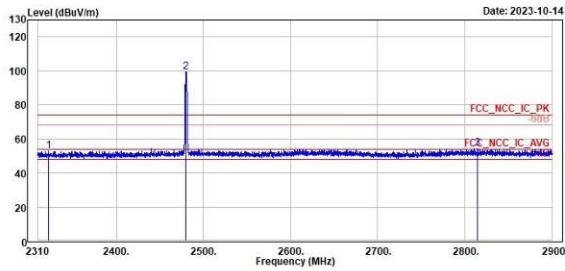
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2359.91	40.70	3.50	37.20	54.00	-13.30	100	298	Average	Vertical	
2 *	2440.00	100.11	62.67	37.44	54.00	46.11	100	298	Average	Vertical	
3	2520.04	41.96	4.46	37.50	54.00	-12.04	100	298	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



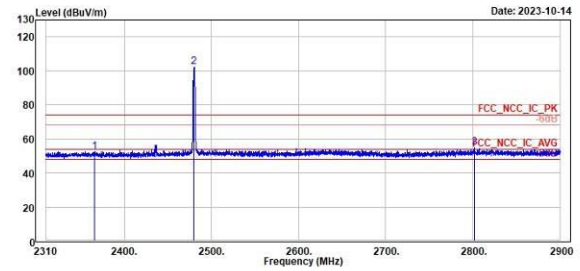
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2321.92	52.96	16.00	36.96	74.00	-21.04	209	316	Peak	Horizontal		
2 *	2480.00	99.59	62.05	37.54	74.00	25.59	209	316	Peak	Horizontal		
3	2814.80	54.22	16.47	37.75	74.00	-19.78	209	316	Peak	Horizontal		



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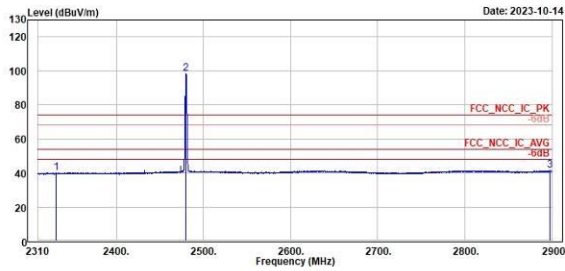
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1	2365.81	52.52	15.32	37.20	74.00	-21.48	111	299	Peak	Vertical		
2 *	2480.00	102.00	64.54	37.54	74.00	28.00	111	299	Peak	Vertical		
3	2801.71	54.76	17.02	37.74	74.00	-19.24	111	299	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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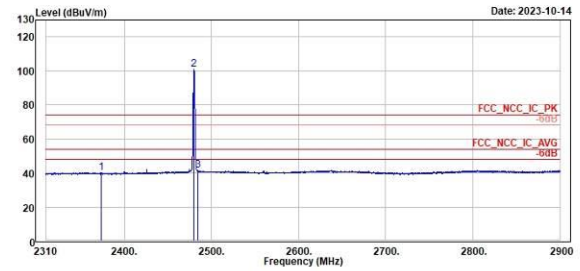


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2330.89	40.09	3.05	37.04	54.00	-13.91	209	316	Average	Horizontal		
2 *	2480.00	90.24	60.70	37.54	54.00	44.24	209	316	Average	Horizontal		
3	2897.40	41.28	3.36	37.92	54.00	-12.72	209	316	Average	Horizontal		

High Channel (Vertical) Average



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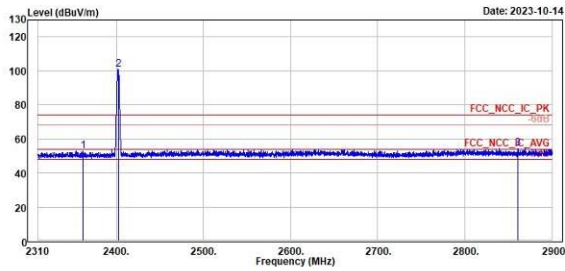
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2373.84	39.97	2.79	37.18	54.00	-14.03	111	299	Average	Vertical		
2 *	2480.00	100.94	63.40	37.54	54.00	46.94	111	299	Average	Vertical		
3	2484.17	41.51	3.97	37.54	54.00	-12.49	111	299	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



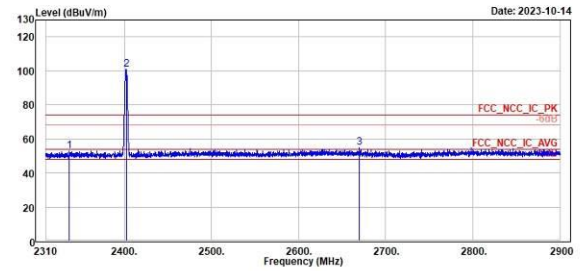
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2361.92	52.66	15.46	37.20	74.00	-21.34	134	318	Peak	Horizontal	
2 *	2402.00	100.61	63.44	37.17	74.00	26.61	134	318	Peak	Horizontal	
3	2669.71	54.51	16.70	37.81	74.00	-19.49	134	318	Peak	Horizontal	



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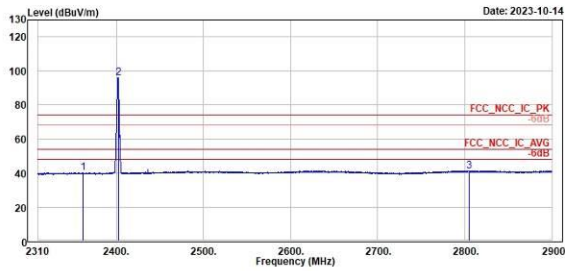
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2337.26	52.00	15.70	37.10	74.00	-21.20	226	302	Peak	Vertical	
2 *	2402.00	100.05	63.68	37.17	74.00	26.05	226	302	Peak	Vertical	
3	2669.66	54.74	17.20	37.54	74.00	-19.26	226	302	Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average



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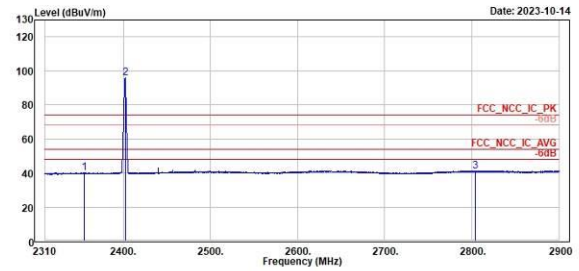


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2361.68	39.95	2.75	37.28	54.00	-14.05	134	318	Average	Horizontal	
2 *	2402.00	95.71	56.54	37.17	54.00	41.71	134	318	Average	Horizontal	
3	2804.42	41.23	3.49	37.74	54.00	-12.77	134	318	Average	Horizontal	

Low Channel (Vertical) Average



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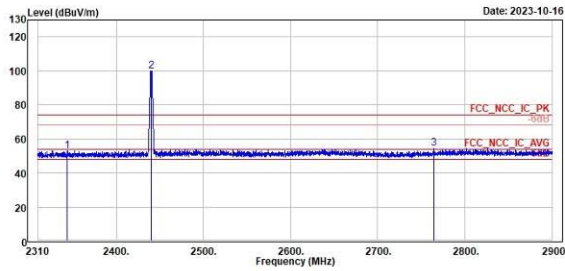
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1	2354.84	40.01	2.81	37.28	54.00	-13.99	226	302	Average	Vertical	
2 *	2402.00	95.02	56.85	37.17	54.00	42.02	226	302	Average	Vertical	
3	2804.18	41.18	3.44	37.74	54.00	-12.82	226	302	Average	Vertical	

BLE_2M

Middle Channel (Horizontal) Peak



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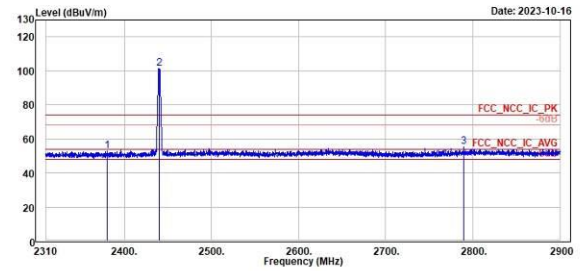


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2343.39	52.87	15.72	37.15	74.00	-21.13	100	316 Peak	Horizontal		
2 *	2440.00	100.03	62.59	37.44	74.00	26.03	100	316 Peak	Horizontal		
3	2764.30	54.38	16.97	37.41	74.00	-19.62	100	316 Peak	Horizontal		

Middle Channel (Vertical) Peak



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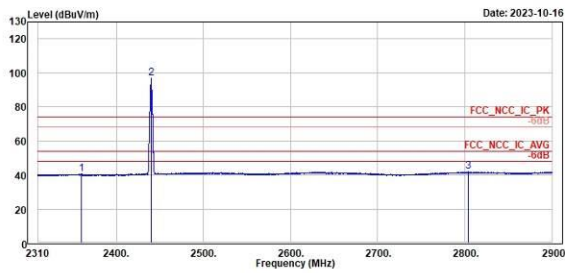
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2300.45	52.70	15.52	37.18	74.00	-21.30	133	203 Peak	Vertical		
2 *	2440.00	101.30	63.94	37.44	74.00	27.30	133	203 Peak	Vertical		
3	2789.08	55.14	17.50	37.64	74.00	-18.86	133	203 Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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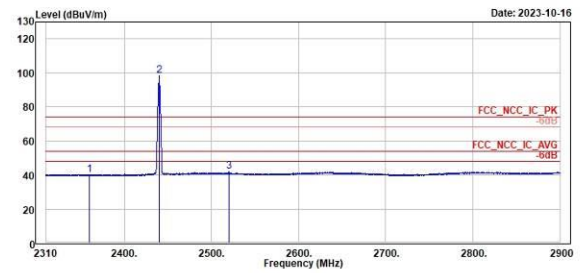


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2359.68	40.67	3.47	37.20	54.00	-13.33	100	316	Average	Horizontal	
2 *	2440.00	96.76	59.32	37.44	54.00	42.76	100	316	Average	Horizontal	
3	2803.95	41.78	4.04	37.74	54.00	-12.22	100	316	Average	Horizontal	

Middle Channel (Vertical) Average



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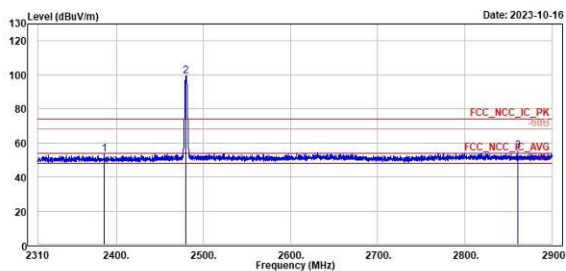
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2360.03	40.26	3.06	37.20	54.00	-13.74	133	283	Average	Vertical	
2 *	2440.00	98.38	60.94	37.44	54.00	44.38	133	283	Average	Vertical	
3	2519.92	41.84	4.34	37.50	54.00	-12.16	133	283	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



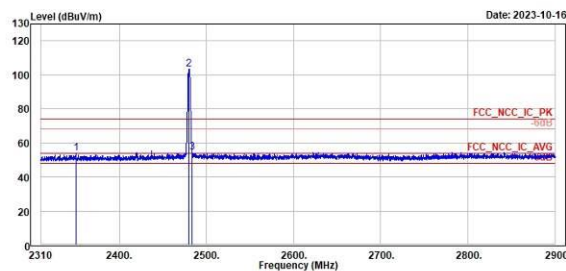
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.87	53.37	16.19	37.18	74.00	-20.63	187			1 Peak	Horizontal	
2 *	2489.00	99.56	62.02	37.54	74.00	25.56	187			1 Peak	Horizontal	
3	2868.35	55.40	17.59	37.81	74.00	-18.60	187			1 Peak	Horizontal	



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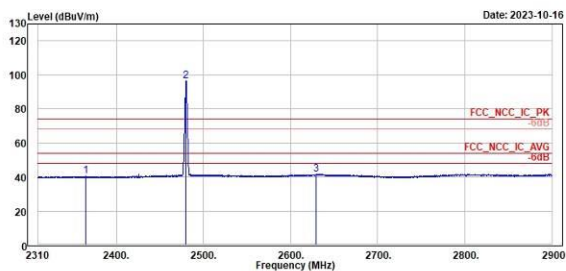
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2359.00	53.65	16.44	37.21	74.00	-20.35	313			284 Peak	Vertical	
2 *	2489.00	103.52	65.98	37.54	74.00	29.52	313			284 Peak	Vertical	
3	2483.46	54.38	16.84	37.54	74.00	-19.62	313			284 Peak	Vertical	

BLE_2M

High Channel (Horizontal) Average



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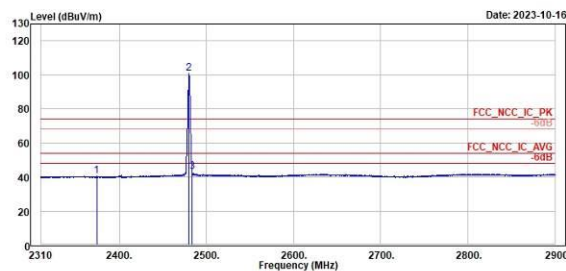


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2365.11	40.33	3.13	37.20	54.00	-13.67	187			1 Average	Horizontal	
2 *	2489.00	96.51	58.97	37.54	54.00	42.51	187			1 Average	Horizontal	
3	2628.95	41.66	4.84	37.62	54.00	-12.34	187			1 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	2373.96	40.31	3.13	37.18	54.00	-13.69	313	284	Average	Vertical		
2 *	2489.00	100.65	63.11	37.54	54.00	46.65	313	284	Average	Vertical		
3	2483.46	42.89	5.35	37.54	54.00	-11.11	313	284	Average	Vertical		

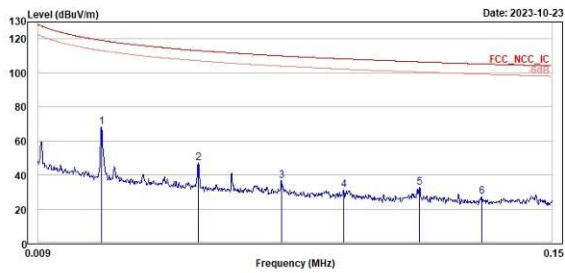
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

High Channel (Open) 9kHz~150kHz



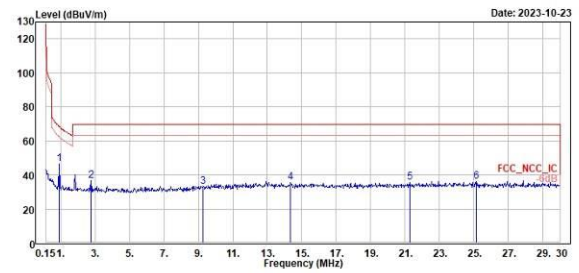
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Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.03	68.10	49.15	18.95	119.13	-51.03	100	152 Peak	Open	
2	0.05	46.90	27.86	19.04	113.11	-66.21	100	53 Peak	Open	
3	0.08	36.59	18.09	18.50	110.00	-73.41	100	11 Peak	Open	
4	0.09	31.10	13.01	18.09	108.24	-77.14	100	257 Peak	Open	
5	0.11	32.71	14.74	17.97	106.49	-73.78	100	69 Peak	Open	
6	0.13	27.21	9.17	18.04	105.27	-78.06	100	214 Peak	Open	



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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	0.93	46.62	27.58	19.04	68.27	-21.65	100	131 Peak	Open	
2	2.78	36.49	16.91	19.58	69.50	-33.01	100	261 Peak	Open	
3	9.28	33.25	11.97	21.28	69.50	-36.25	100	184 Peak	Open	
4	14.36	35.54	13.65	21.89	69.50	-33.96	100	320 Peak	Open	
5	21.25	35.51	13.20	22.31	69.50	-33.99	100	345 Peak	Open	
6	25.13	36.04	13.70	22.34	69.50	-33.46	100	218 Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

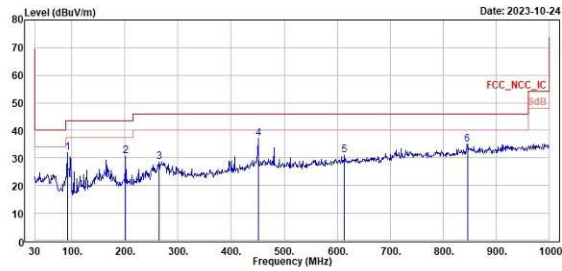
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



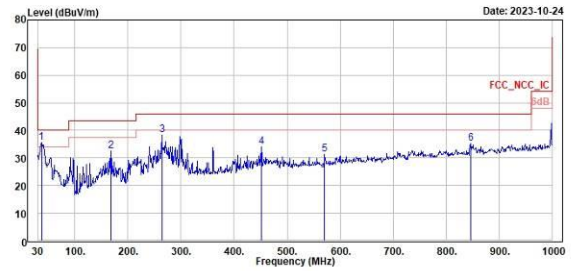
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	91.11	32.04	44.10	-12.06	43.50	-11.46	200	86	Peak	Horizontal	
2	201.69	30.80	39.51	-8.71	43.50	-12.70	200	48	Peak	Horizontal	
3	263.77	28.72	34.71	-5.99	46.00	-17.28	200	135	Peak	Horizontal	
4	450.98	37.08	39.10	-2.02	46.00	-8.92	203	360	Peak	Horizontal	
5	613.94	31.12	30.54	0.58	46.00	-14.88	210	3	Peak	Horizontal	
6	845.77	35.13	31.03	4.10	46.00	-10.87	293	360	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	36.79	35.67	42.93	-7.26	40.00	-4.33	100	322	Peak	Vertical	
2	167.74	32.57	38.29	-5.72	43.50	-10.93	100	119	Peak	Vertical	
3	263.77	38.37	44.36	-5.99	46.00	-7.63	100	172	Peak	Vertical	
4	450.98	34.18	36.20	-2.02	46.00	-11.82	100	99	Peak	Vertical	
5	571.26	31.37	31.90	-0.53	46.00	-14.63	100	167	Peak	Vertical	
6	846.74	35.26	31.16	4.10	46.00	-10.74	200	211	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

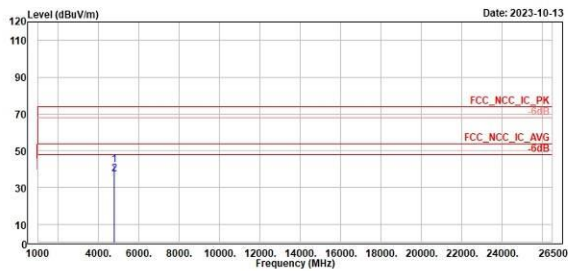
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



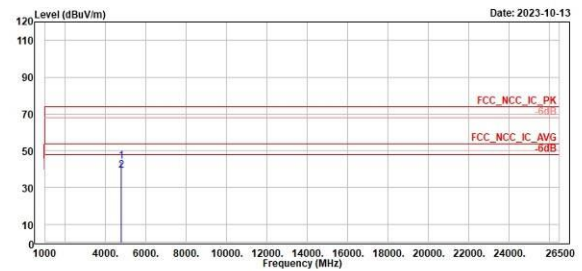
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	42.52	51.55	-9.03	74.00	-31.48	309	360	Peak	Horizontal		
2	4804.00	37.24	46.27	-9.03	54.00	-16.76	309	360	Average	Horizontal		



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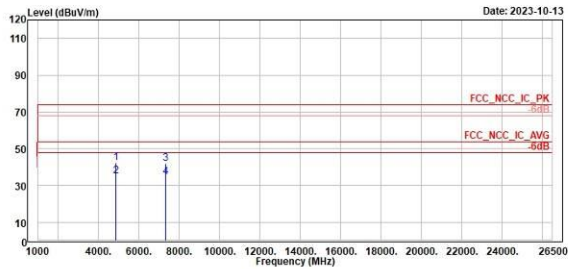
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	44.16	53.19	-9.03	74.00	-29.84	266	360	Peak	Vertical		
2	4804.00	39.18	48.21	-9.03	54.00	-14.82	266	360	Average	Vertical		

BLE_1M

Middle Channel (Horizontal)



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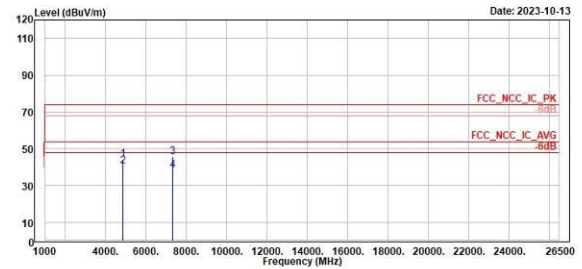


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	42.44	51.48	-9.04	74.00	-31.56	200	359	Peak	Horizontal	
2	4880.00	35.04	44.08	-9.04	54.00	-18.96	200	359	Average	Horizontal	
3	7320.00	42.06	49.14	-7.08	74.00	-31.94	400	238	Peak	Horizontal	
4	7320.00	34.56	41.64	-7.08	54.00	-19.44	400	238	Average	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	44.32	53.36	-9.04	74.00	-29.68	200	282	Peak	Vertical	
2	4880.00	40.00	49.04	-9.04	54.00	-13.20	200	282	Average	Vertical	
3	7320.00	45.85	52.93	-7.08	74.00	-28.15	129	360	Peak	Vertical	
4	7320.00	38.29	45.37	-7.08	54.00	-15.71	129	360	Average	Vertical	

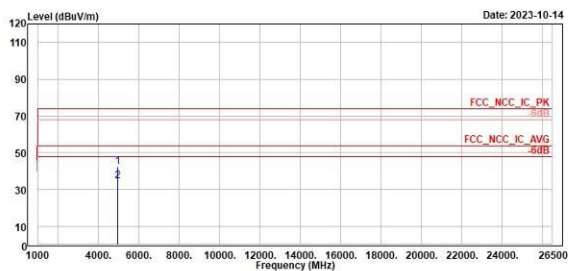
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



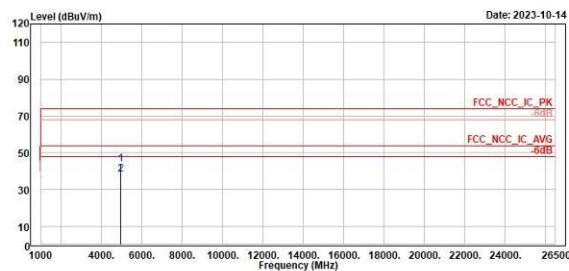
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	42.39	51.23	-8.84	74.00	-31.61	280	352	Peak	Horizontal		
2	4960.00	34.69	43.53	-8.84	54.00	-19.31	200	352	Average	Horizontal		



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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	dB	cm	deg			
1	4960.00	43.89	52.73	-8.84	74.00	-30.11	262	360	Peak	Vertical		
2	4960.00	38.34	47.18	-8.84	54.00	-15.66	262	360	Average	Vertical		

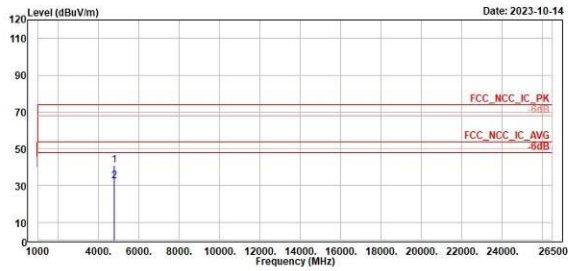
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



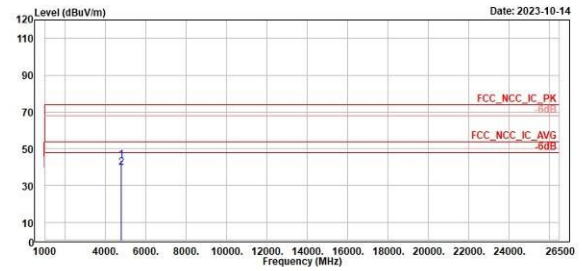
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	40.88	49.91	-9.03	74.00	-33.12	100	360	Peak	Horizontal		
2	4804.00	32.22	41.25	-9.03	54.00	-21.78	100	360	Average	Horizontal		



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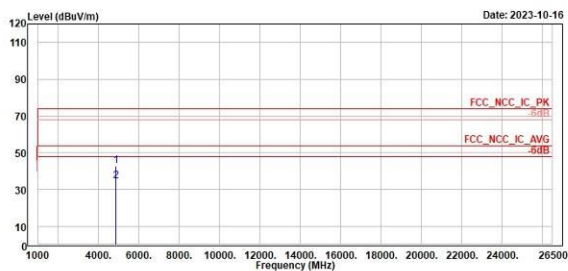
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	43.73	52.76	-9.03	74.00	-30.27	200	289	Peak	Vertical		
2	4804.00	39.78	48.81	-9.03	54.00	-14.22	200	289	Average	Vertical		

BLE_2M

Middle Channel (Horizontal)



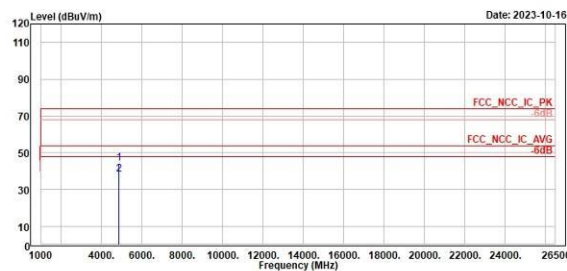
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Middle Channel (Vertical)



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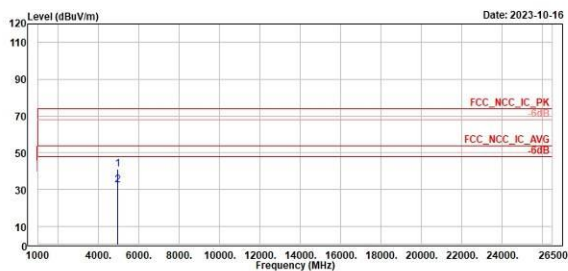


BLE_2M

High Channel (Horizontal)



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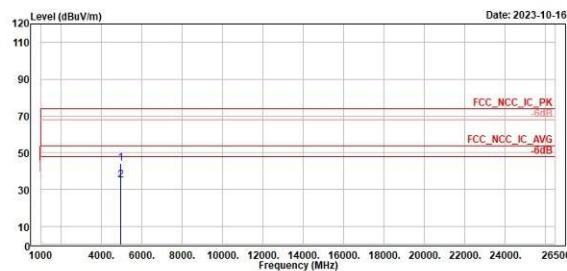


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	40.93	49.77	-8.84	74.00	-33.07	100	300	Peak	Horizontal		
2	4960.00	32.50	41.34	-8.84	54.00	-21.50	100	300	Average	Horizontal		

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	4960.00	44.44	53.28	-8.84	74.00	-29.56	112	42	Peak	Vertical		
2	4960.00	34.95	43.79	-8.84	54.00	-19.05	112	42	Average	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

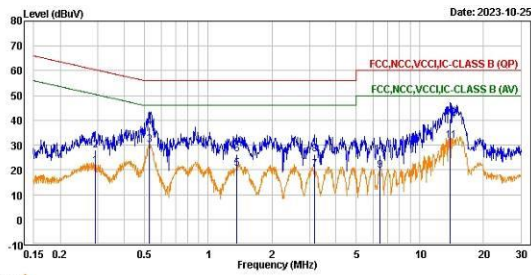
Worst Band

(Line)

(Neutral)



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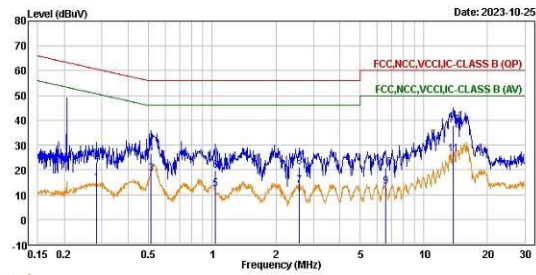


Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
		dBuV	dB	dBuV	dB			
1	0.29	21.42	11.80	9.62	50.45	-29.03 Average	line1	
2	0.29	27.82	18.20	9.62	60.45	-32.63 QP	line1	
3	0.53	30.04	20.41	9.63	46.00	-15.96 Average	line1	
4	0.53	37.22	27.59	9.63	56.00	-18.78 QP	line1	
5	1.36	20.35	10.71	9.64	46.00	-25.65 Average	line1	
6	1.36	26.31	16.67	9.64	56.00	-29.69 QP	line1	
7	3.17	20.14	10.46	9.68	46.00	-25.86 Average	line1	
8	3.17	26.42	16.74	9.68	56.00	-29.58 QP	line1	
9	6.49	19.91	10.19	9.72	50.00	-30.09 Average	line1	
10	6.49	25.98	16.26	9.72	60.00	-34.02 QP	line1	
11	13.92	31.91	22.14	9.77	50.00	-18.09 Average	line1	
12	13.92	40.52	30.75	9.77	60.00	-19.48 QP	line1	



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Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase	Note
		dBuV	dB	dBuV	dB			
1	0.29	14.60	5.02	9.58	50.66	-36.06 Average	neutral	
2	0.29	23.25	13.67	9.58	60.66	-37.41 QP	neutral	
3	0.51	18.50	8.91	9.59	46.00	-27.50 Average	neutral	
4	0.51	26.68	17.09	9.59	56.00	-29.32 QP	neutral	
5	1.03	12.15	2.55	9.60	46.00	-33.85 Average	neutral	
6	1.03	19.66	10.06	9.60	56.00	-36.34 QP	neutral	
7	2.57	13.64	4.02	9.62	46.00	-32.36 Average	neutral	
8	2.57	21.25	11.63	9.62	56.00	-34.75 QP	neutral	
9	6.59	13.10	3.41	9.69	50.00	-36.50 Average	neutral	
10	6.59	20.83	11.14	9.69	60.00	-39.17 QP	neutral	
11	13.79	26.15	16.40	9.75	50.00	-23.85 Average	neutral	
12	13.79	37.76	28.01	9.75	60.00	-22.24 QP	neutral	