

Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

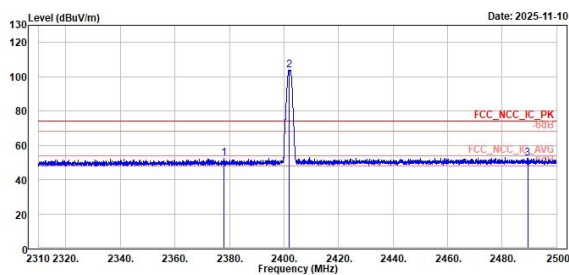
Band Edges, 2.31GHz ~ 2.5GHz

BLE_1M

Low Channel (Horizontal) Peak



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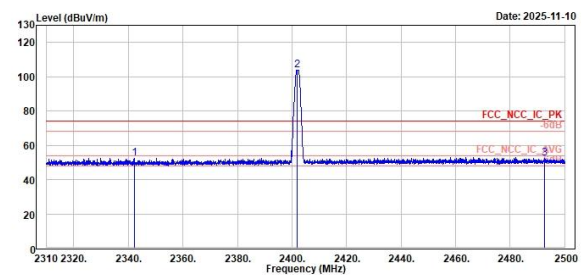


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2378.06	52.21	47.54	4.67	74.00	-21.79	274	264	Peak	Horizontal		
2 *	2402.00	103.78	98.91	4.87	74.00	29.78	274	264	Peak	Horizontal		
3	2489.36	52.44	47.33	5.11	74.00	-21.56	274	264	Peak	Horizontal		

Low Channel (Vertical) Peak



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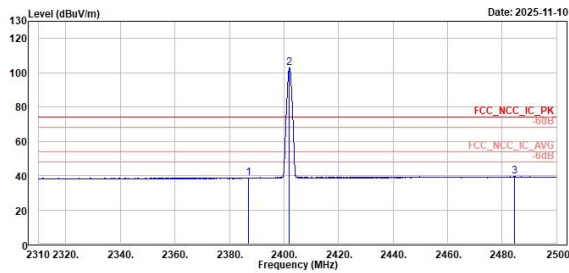
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2342.11	52.45	48.04	4.41	74.00	-21.55	323	297	Peak	Vertical		
2 *	2402.00	103.99	99.12	4.87	74.00	29.99	323	297	Peak	Vertical		
3	2492.59	52.36	47.26	5.10	74.00	-21.64	323	297	Peak	Vertical		

BLE_1M

Low Channel (Horizontal) Average



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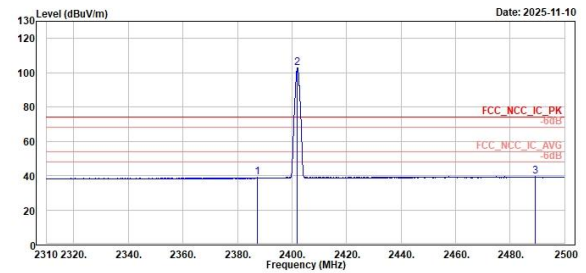


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.18	38.76	34.00	4.76	54.00	-15.24	274	264	Average	Horizontal		
2 *	2402.00	102.71	97.84	4.87	54.00	48.71	274	264	Average	Horizontal		
3	2484.53	39.38	34.28	5.10	54.00	-14.62	274	264	Average	Horizontal		

Low Channel (Vertical) Average



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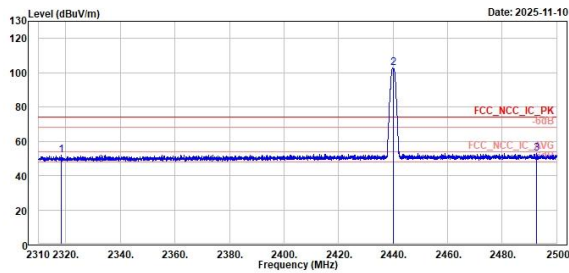
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1	2387.44	38.81	34.05	4.76	54.00	-15.19	323	297	Average	Vertical		
2 *	2402.00	102.95	98.08	4.87	54.00	48.95	323	297	Average	Vertical		
3	2489.21	39.36	34.25	5.11	54.00	-14.64	323	297	Average	Vertical		

BLE_1M

Middle Channel (Horizontal) Peak



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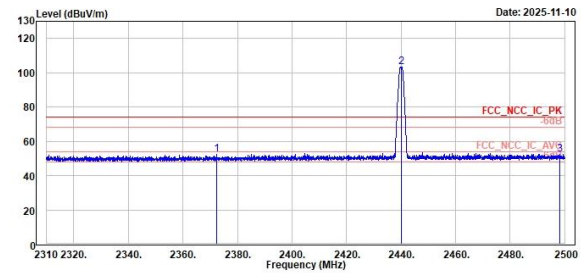


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2318.21	52.05	47.69	4.36	74.00	-21.95	263	264 Peak		Horizontal		
2 *	2440.00	102.59	97.56	5.03	74.00	28.59	263	264 Peak		Horizontal		
3	2492.63	52.72	47.62	5.10	74.00	-21.28	263	264 Peak		Horizontal		

Middle Channel (Vertical) Peak



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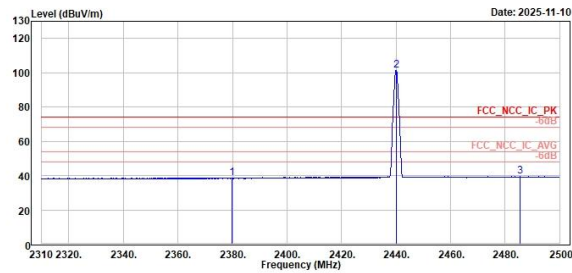
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1	2372.43	52.54	47.92	4.62	74.00	-21.46	348	294 Peak		Vertical		
2 *	2440.00	103.39	98.36	5.03	74.00	29.39	348	294 Peak		Vertical		
3	2498.18	52.53	47.42	5.11	74.00	-21.47	348	294 Peak		Vertical		

BLE_1M

Middle Channel (Horizontal) Average



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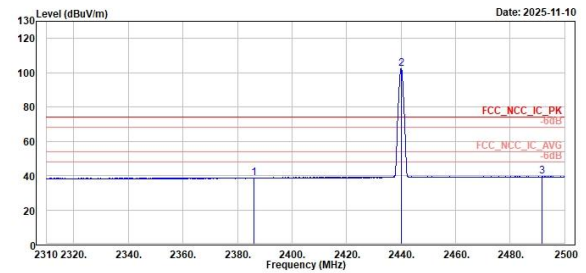


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2379.77	38.79	34.01	4.69	54.00	-15.30	263	264	Average	Horizontal		
2 *	2440.00	101.53	96.50	5.03	54.00	47.53	263	264	Average	Horizontal		
3	2485.41	39.39	34.29	5.10	54.00	-14.61	263	264	Average	Horizontal		

Middle Channel (Vertical) Average



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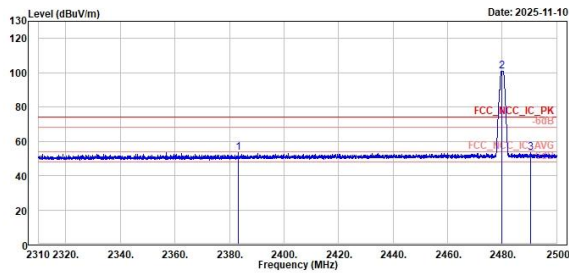
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1	2386.04	38.80	34.06	4.74	54.00	-15.20	348	294	Average	Vertical		
2 *	2440.00	102.35	97.32	5.03	54.00	48.35	348	294	Average	Vertical		
3	2491.75	39.43	34.33	5.10	54.00	-14.57	348	294	Average	Vertical		

BLE_1M

High Channel (Horizontal) Peak



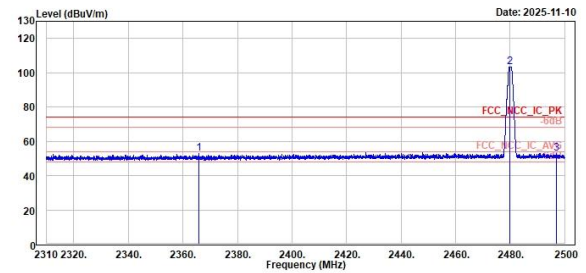
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.38	53.36	48.64	4.72	74.00	-20.64	258	264	Peak	Horizontal		
2 *	2480.00	101.01	95.91	5.10	74.00	27.01	258	264	Peak	Horizontal		
3	2490.39	53.52	48.41	5.11	74.00	-20.48	258	264	Peak	Horizontal		



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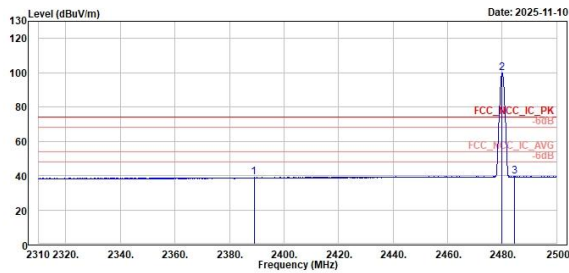
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2365.82	52.68	48.11	4.57	74.00	-21.32	339	291	Peak	Vertical		
2 *	2480.00	103.38	98.28	5.10	74.00	29.38	339	291	Peak	Vertical		
3	2497.07	53.13	48.02	5.11	74.00	-20.87	339	291	Peak	Vertical		

BLE_1M

High Channel (Horizontal) Average



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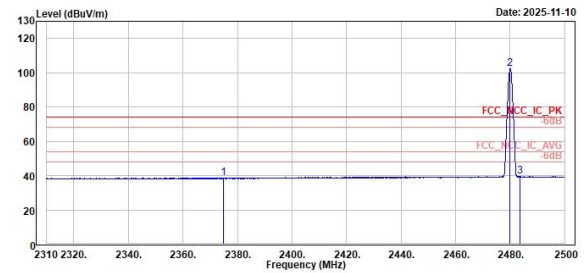


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.00	38.82	34.06	4.76	54.00	-15.18	258	264	Average	Horizontal		
2 *	2480.00	99.97	94.87	5.10	54.00	45.97	258	264	Average	Horizontal		
3	2484.57	39.41	34.31	5.10	54.00	-14.59	258	264	Average	Horizontal		

High Channel (Vertical) Average



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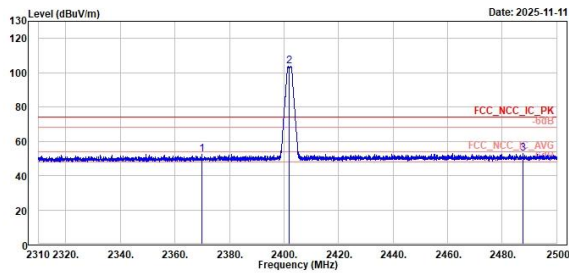
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2374.87	38.76	34.12	4.64	54.00	-15.24	339	291	Average	Vertical		
2 *	2480.00	102.31	97.21	5.10	54.00	48.31	339	291	Average	Vertical		
3	2483.66	39.48	34.38	5.10	54.00	-14.52	339	291	Average	Vertical		

BLE_2M

Low Channel (Horizontal) Peak



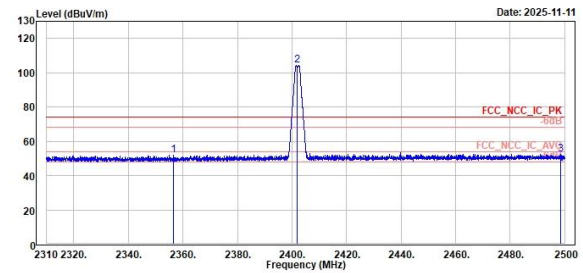
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.93	52.55	47.94	4.61	74.00	-21.45	271	265	Peak	Horizontal		
2 *	2402.00	103.59	96.72	4.87	74.00	29.59	271	265	Peak	Horizontal		
3	2487.54	52.85	47.74	5.11	74.00	-21.15	271	265	Peak	Horizontal		



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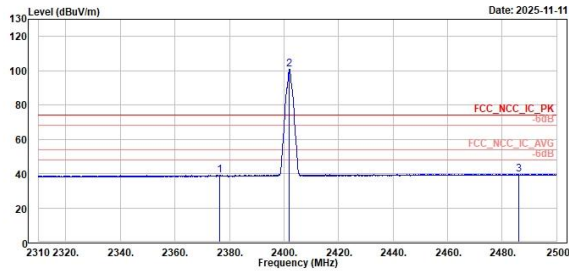
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1	2356.44	52.10	47.62	4.48	74.00	-21.90	325	297	Peak	Vertical		
2 *	2402.00	104.16	99.29	4.87	74.00	30.16	325	297	Peak	Vertical		
3	2498.56	52.45	47.34	5.11	74.00	-21.55	325	297	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average



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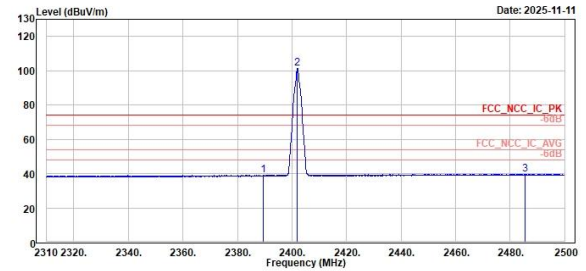


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2376.31	39.15	34.50	4.65	54.00	-14.85	271	265	Average	Horizontal		
2 *	2402.00	100.64	95.77	4.87	54.00	46.64	271	265	Average	Horizontal		
3	2486.21	39.61	34.51	5.10	54.00	-14.39	271	265	Average	Horizontal		

Low Channel (Vertical) Average



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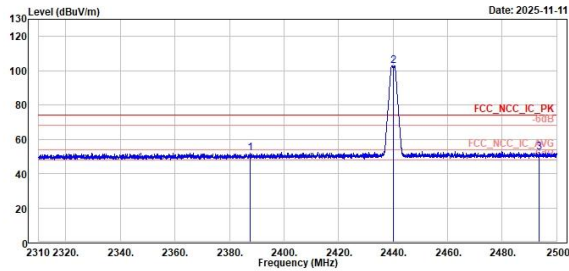
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1	2389.42	39.09	34.32	4.77	54.00	-14.91	325	297	Average	Vertical		
2 *	2402.00	101.22	96.35	4.87	54.00	47.22	325	297	Average	Vertical		
3	2485.48	39.73	34.63	5.10	54.00	-14.27	325	297	Average	Vertical		

BLE_2M

Middle Channel (Horizontal) Peak



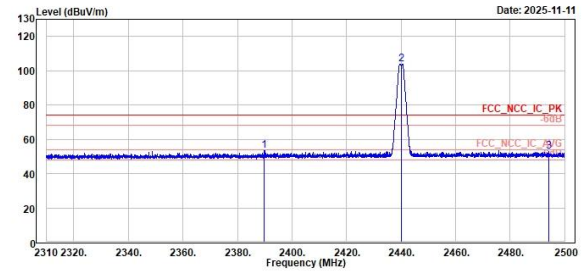
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.52	52.14	47.38	4.76	74.00	-21.86	264	265	Peak	Horizontal		
2 *	2440.00	102.78	97.75	5.03	74.00	28.78	264	265	Peak	Horizontal		
3	2493.58	52.27	47.17	5.10	74.00	-21.73	264	265	Peak	Horizontal		



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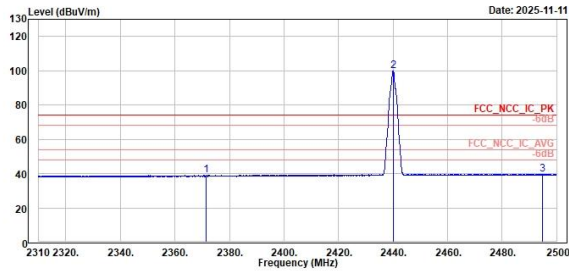
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1	2389.91	53.51	48.74	4.77	74.00	-20.49	349	292	Peak	Vertical		
2 *	2440.00	103.97	98.94	5.03	74.00	29.97	349	292	Peak	Vertical		
3	2494.03	53.03	47.93	5.10	74.00	-20.97	349	292	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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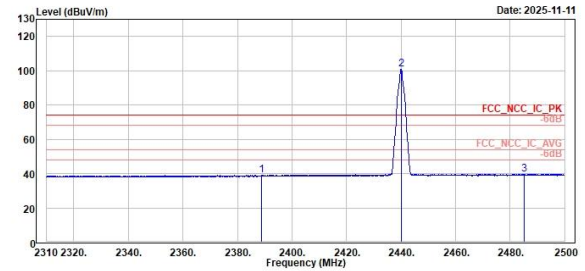


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2371.52	39.05	34.44	4.61	54.00	-14.95	264	265	Average	Horizontal		
2 *	2440.00	99.82	94.79	5.03	54.00	45.82	264	265	Average	Horizontal		
3	2494.91	39.67	34.57	5.10	54.00	-14.33	264	265	Average	Horizontal		

Middle Channel (Vertical) Average



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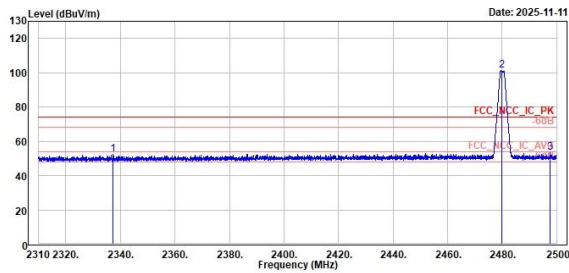
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1	2388.85	39.23	34.47	4.76	54.00	-14.77	349	292	Average	Vertical		
2 *	2440.00	101.01	95.98	5.03	54.00	47.01	349	292	Average	Vertical		
3	2485.14	39.58	34.48	5.10	54.00	-14.42	349	292	Average	Vertical		

BLE_2M

High Channel (Horizontal) Peak



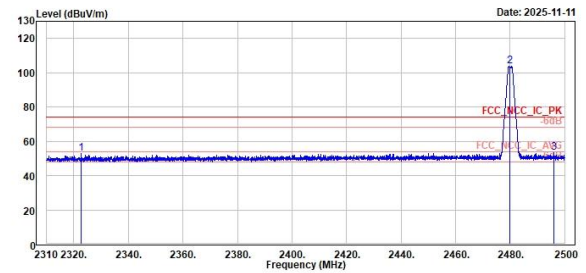
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2337.32	52.21	47.82	4.39	74.00	-21.79	258	264	Peak	Horizontal		
2 *	2480.00	101.10	96.00	5.10	74.00	27.10	258	264	Peak	Horizontal		
3	2497.72	53.19	48.08	5.11	74.00	-20.81	258	264	Peak	Horizontal		



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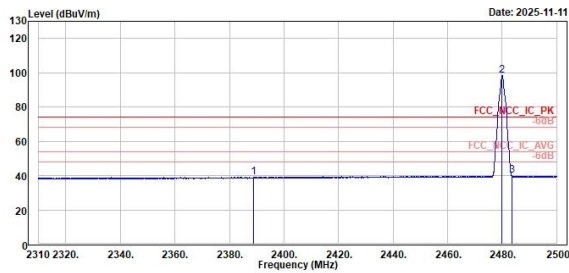
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2322.58	52.69	48.33	4.36	74.00	-21.31	338	291	Peak	Vertical		
2 *	2480.00	103.66	98.56	5.10	74.00	29.66	338	291	Peak	Vertical		
3	2496.05	53.15	48.04	5.11	74.00	-20.85	338	291	Peak	Vertical		

BLE_2M

High Channel (Horizontal) Average



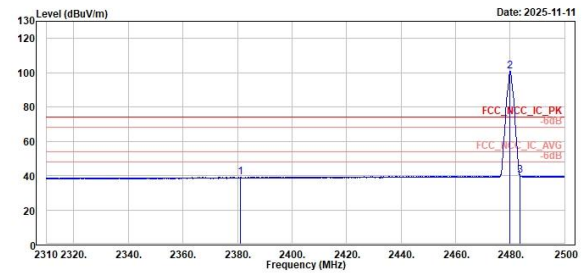
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.96	39.13	34.37	4.76	54.00	-14.87	258	264	Average	Horizontal		
2 *	2480.00	98.19	93.09	5.10	54.00	44.19	258	264	Average	Horizontal		
3	2483.51	39.86	34.76	5.10	54.00	-14.14	258	264	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	2381.21	39.01	34.31	4.70	54.00	-14.99	338	291	Average	Vertical		
2 *	2480.00	100.73	95.63	5.10	54.00	46.73	338	291	Average	Vertical		
3	2483.51	40.18	35.08	5.10	54.00	-13.82	338	291	Average	Vertical		

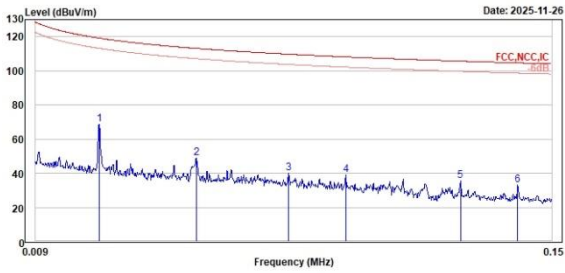
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE_2M

Middle Channel (Open) 9kHz~150kHz



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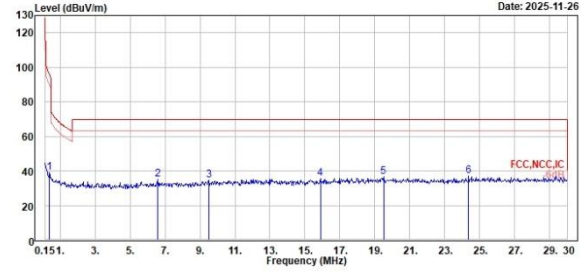


Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.03	68.53	48.70	19.83	119.13	-50.60	100	360	Peak	Open	
2	0.05	48.75	38.06	18.69	113.11	-64.36	100	285	Peak	Open	
3	0.08	39.93	21.65	18.28	109.74	-69.81	100	272	Peak	Open	
4	0.09	39.07	21.05	18.02	108.16	-69.09	100	257	Peak	Open	
5	0.13	35.55	17.37	18.18	105.66	-70.11	100	331	Peak	Open	
6	0.14	32.98	14.63	18.27	104.63	-71.73	100	360	Peak	Open	

Middle Channel (Open) 150kHz~30MHz



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Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.39	39.24	20.60	18.64	95.81	-56.57	100	257	Peak	Open	
2	6.68	35.07	14.32	20.75	69.50	-34.43	100	83	Peak	Open	
3	9.52	34.59	13.53	21.06	69.50	-34.91	100	77	Peak	Open	
4	15.88	35.42	13.58	21.84	69.50	-34.08	100	192	Peak	Open	
5	19.49	36.37	13.60	22.77	69.50	-33.13	100	160	Peak	Open	
6	24.36	36.87	14.24	22.63	69.50	-32.63	100	357	Peak	Open	

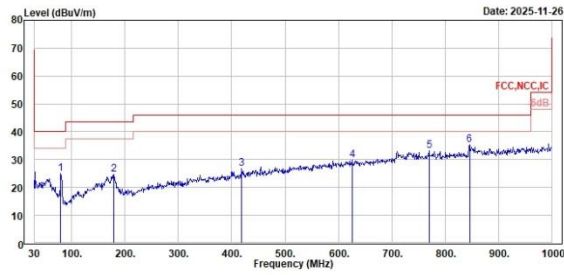
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M

Middle Channel (Horizontal)



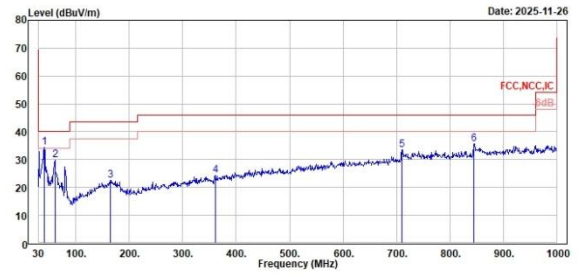
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	79.47	25.09	36.60	-11.51	40.00	-14.91	100	239 Peak	Horizontal	
2	178.41	24.74	32.08	-7.34	43.50	-18.76	200	54 Peak	Horizontal	
3	418.97	26.71	30.15	-3.44	46.00	-19.29	100	334 Peak	Horizontal	
4	625.58	29.90	29.07	0.83	46.00	-16.10	100	283 Peak	Horizontal	
5	770.11	33.18	29.50	3.68	46.00	-12.82	100	333 Peak	Horizontal	
6	845.77	35.43	31.35	4.08	46.00	-10.57	100	323 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	40.67	34.30	41.56	-7.26	40.00	-5.70	100	224 Peak	Vertical	
2	61.04	29.96	37.29	-7.33	40.00	-10.04	124	360 Peak	Vertical	
3	163.86	22.61	29.04	-6.43	43.50	-20.89	100	102 Peak	Vertical	
4	361.74	24.45	29.13	-4.68	46.00	-21.55	200	209 Peak	Vertical	
5	709.97	33.52	31.27	2.25	46.00	-12.48	194	318 Peak	Vertical	
6	844.80	35.54	31.50	4.04	46.00	-10.46	200	169 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

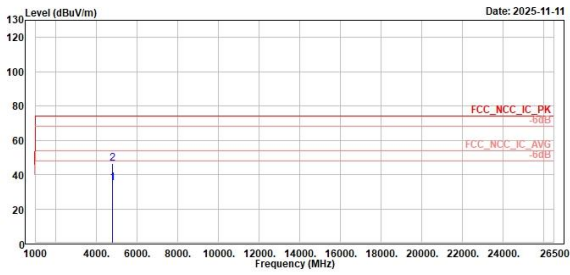
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



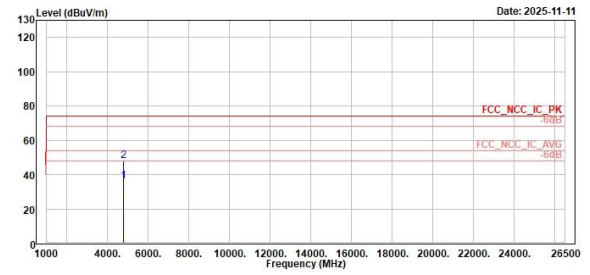
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	35.06	26.62	8.44	54.00	-18.94	300	332 Average	Horizontal	
2	4804.00	46.58	38.14	8.44	74.00	-27.42	300	332 Peak	Horizontal	



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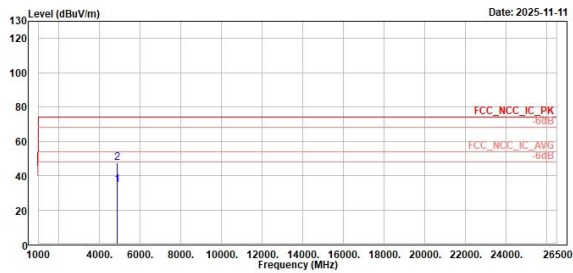
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.00	35.89	27.45	8.44	54.00	-18.11	200	309 Average	Vertical	
2	4804.00	47.96	39.52	8.44	74.00	-26.04	200	309 Peak	Vertical	

BLE_1M

Middle Channel (Horizontal)



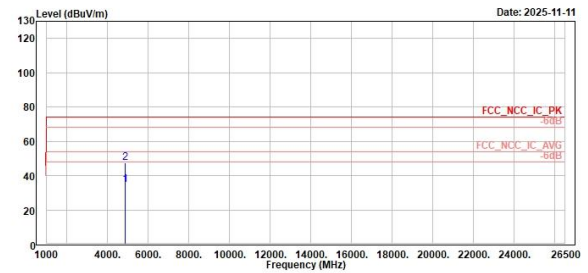
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4880.00	34.52	25.85	8.67	54.00	-19.48	300	192	Average	Horizontal		
2	4880.00	47.23	38.56	8.67	74.00	-26.77	300	192	Peak	Horizontal		



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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	cm	deg			
1	4880.00	34.68	26.01	8.67	54.00	-19.32	300	208	Average	Vertical		
2	4880.00	47.39	38.72	8.67	74.00	-26.61	300	208	Peak	Vertical		

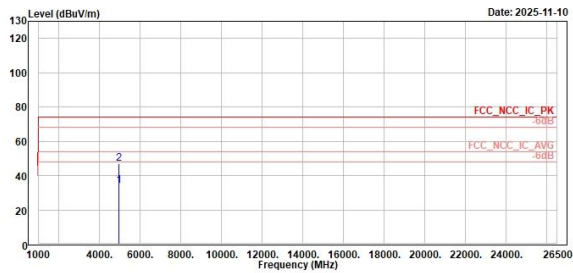
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



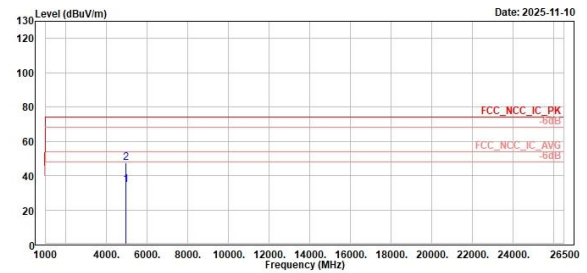
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	34.29	25.41	8.88	54.00	-19.71	180	188	Average	Horizontal		
2	4960.00	47.17	38.29	8.88	74.00	-26.83	180	188	Peak	Horizontal		



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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	4960.00	34.56	25.68	8.88	54.00	-19.44	280	266	Average	Vertical		
2	4960.00	47.41	38.53	8.88	74.00	-26.59	280	266	Peak	Vertical		

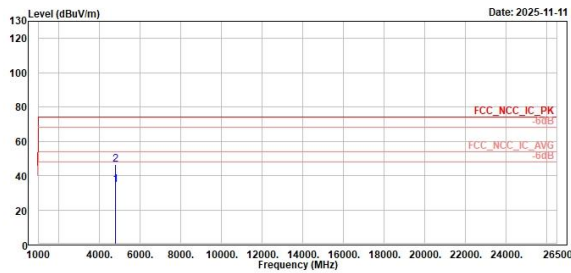
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



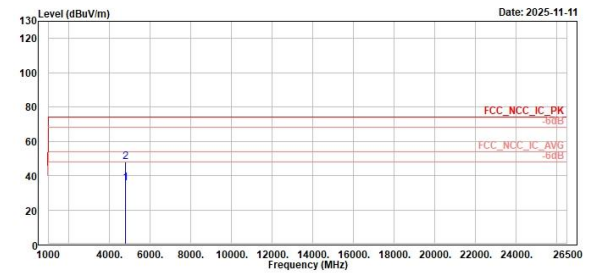
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4894.00	34.66	26.22	8.44	54.00	-19.34	180	182	Average	Horizontal		
2	4894.00	46.59	38.15	8.44	74.00	-27.41	180	182	Peak	Horizontal		



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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	cm	deg			
1	4894.00	35.53	27.09	8.44	54.00	-18.47	180	279	Average	Vertical		
2	4894.00	47.77	39.33	8.44	74.00	-26.23	180	279	Peak	Vertical		

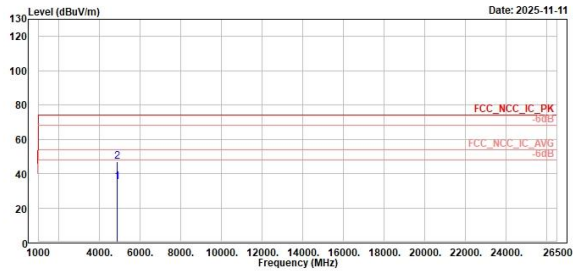
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



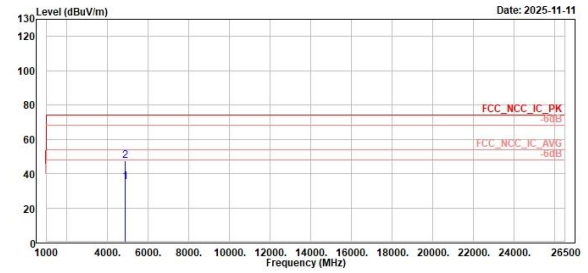
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4880.00	34.88	26.21	8.67	54.00	-19.12	180	192	Average	Horizontal		
2	4880.00	47.02	38.35	8.67	74.00	-26.98	180	192	Peak	Horizontal		



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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	cm	deg			
1	4880.00	35.04	26.37	8.67	54.00	-18.96	300	83	Average	Vertical		
2	4880.00	47.44	38.77	8.67	74.00	-26.56	300	83	Peak	Vertical		

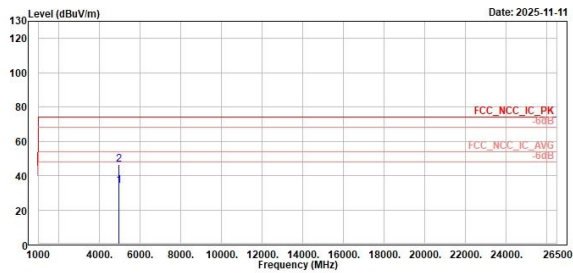
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



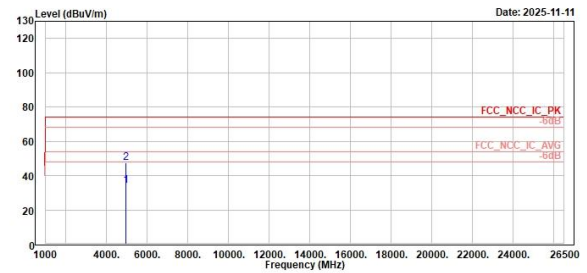
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	34.05	25.17	8.88	54.00	-19.95	180	142	Average	Horizontal		
2	4960.00	46.55	37.67	8.88	74.00	-27.45	180	142	Peak	Horizontal		



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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	4960.00	34.29	25.41	8.88	54.00	-19.71	280	164	Average	Vertical		
2	4960.00	47.45	38.57	8.88	74.00	-26.55	280	164	Peak	Vertical		

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

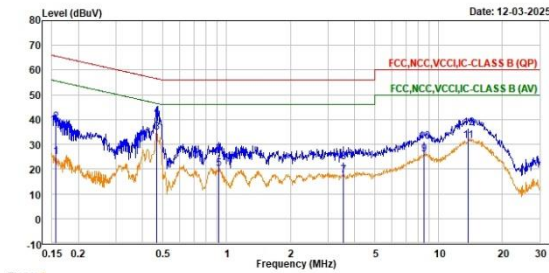
Worst Band

(Line)

(Neutral)



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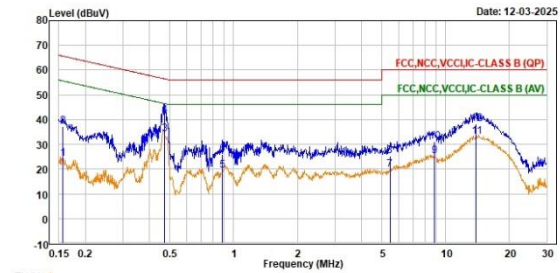


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	24.88	15.25	9.63	55.67	-30.79 Average	line1
2	0.16	38.79	29.16	9.63	65.67	-26.88 QP	line1
3	0.47	34.75	25.12	9.63	46.52	-11.77 Average	line1
4	0.47	41.39	31.76	9.63	56.52	-15.13 QP	line1
5	0.92	20.03	10.39	9.64	46.00	-25.97 Average	line1
6	0.92	25.00	16.16	9.64	56.00	-30.20 QP	line1
7	3.55	17.21	7.53	9.68	46.00	-28.79 Average	line1
8	3.55	22.76	13.08	9.68	56.00	-33.24 QP	line1
9	8.54	25.94	16.21	9.73	50.00	-24.00 Average	line1
10	8.54	31.07	21.34	9.73	60.00	-28.93 QP	line1
11	13.79	31.49	21.74	9.75	50.00	-18.51 Average	line1
12	13.79	36.67	26.92	9.75	60.00	-23.33 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	0.16	24.09	14.45	9.64	55.67	-31.58 Average	neutral
2	0.16	37.34	27.70	9.64	65.67	-28.33 QP	neutral
3	0.47	34.08	24.45	9.63	46.48	-12.40 Average	neutral
4	0.47	41.50	31.95	9.63	56.48	-14.90 QP	neutral
5	0.88	19.39	9.75	9.64	46.00	-26.61 Average	neutral
6	0.88	26.01	16.37	9.64	56.00	-29.99 QP	neutral
7	5.46	19.78	10.06	9.72	50.00	-30.22 Average	neutral
8	5.46	25.39	15.67	9.72	60.00	-34.61 QP	neutral
9	8.85	25.35	15.59	9.76	50.00	-24.65 Average	neutral
10	8.85	30.96	21.20	9.76	60.00	-29.04 QP	neutral
11	13.92	33.19	23.37	9.82	50.00	-16.81 Average	neutral
12	13.92	38.41	28.59	9.82	60.00	-21.59 QP	neutral