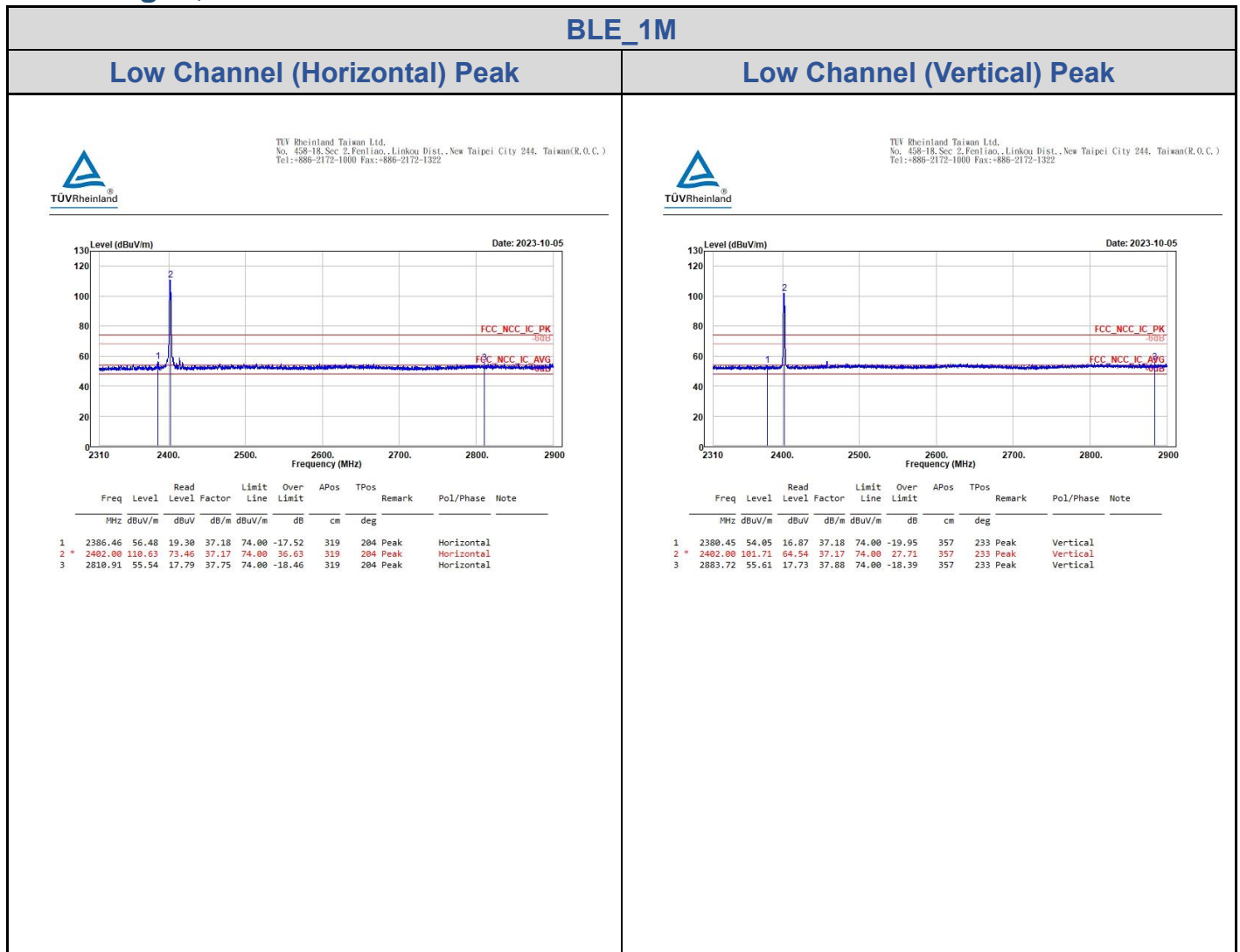


Appendix D: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test for PIFA Antenna

Main Source, ECC Mode for Antenna No. 3

Band Edges, 2.31GHz ~ 2.9GHz



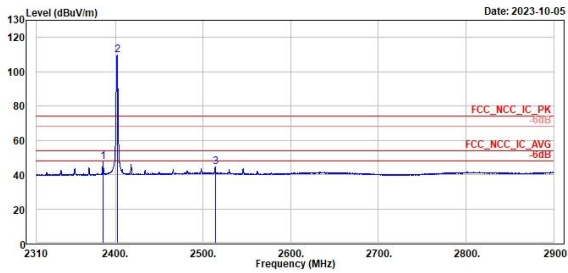
BLE_1M

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



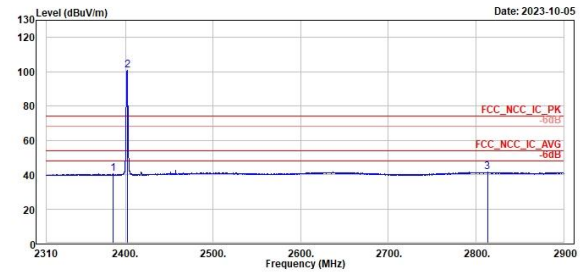
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MHz	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note				
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg							
2386.11	47.21	10.03	37.18	54.00	-6.79	319	204	Average	Horizontal					
2402.00	109.56	72.39	37.17	54.00	55.56	319	204	Average	Horizontal					
2513.90	44.35	6.84	37.51	54.00	-9.65	319	204	Average	Horizontal					



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MHz	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note				
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg							
2385.87	40.55	3.37	37.18	54.00	-13.45	357	233	Average	Vertical					
2402.00	100.68	63.51	37.17	54.00	46.68	357	233	Average	Vertical					
2812.92	41.31	3.56	37.75	54.00	-12.69	357	233	Average	Vertical					

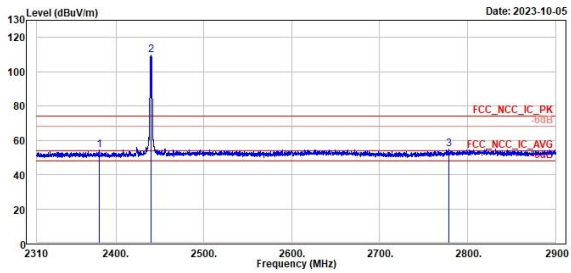
BLE_1M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



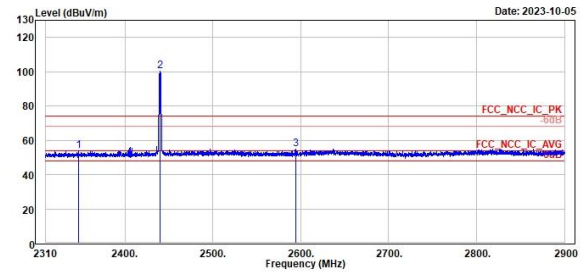
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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2381.39	54.29	17.11	37.18	74.00	-19.71	383	289	Peak	Horizontal		
2448.00	109.57	72.13	37.44	74.00	35.57	383	289	Peak	Horizontal		
2778.22	54.85	17.30	37.55	74.00	-19.15	383	289	Peak	Horizontal		



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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2347.52	53.65	16.46	37.19	74.00	-20.35	356	235	Peak	Vertical		
2448.00	100.17	62.73	37.44	74.00	26.17	356	235	Peak	Vertical		
2594.14	54.89	17.26	37.63	74.00	-19.11	356	235	Peak	Vertical		

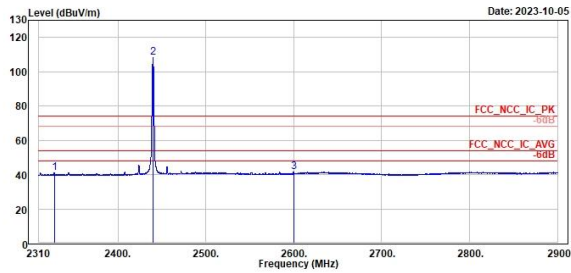
BLE_1M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



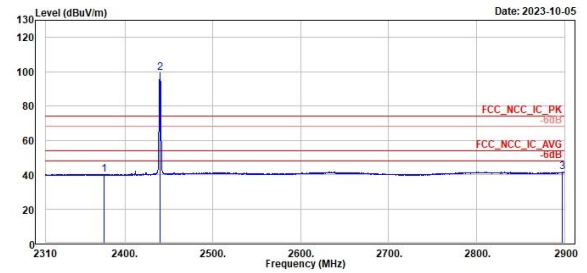
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note									
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg												
2327.94	41.24	4.23	37.01	54.00	-12.76	383	289	Average	Horizontal										
2448.00	108.45	71.01	37.44	54.00	54.45	383	289	Average	Horizontal										
2600.28	41.71	4.06	37.65	54.00	-12.29	383	289	Average	Horizontal										



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MHz	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												
2375.96	40.25	3.06	37.19	54.00	-13.75	356	235	Average	Vertical										
2448.00	99.15	61.71	37.44	54.00	45.15	356	235	Average	Vertical										
2897.52	41.41	3.48	37.93	54.00	-12.59	356	235	Average	Vertical										

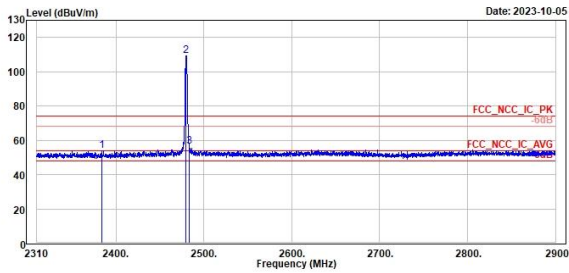
BLE_1M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



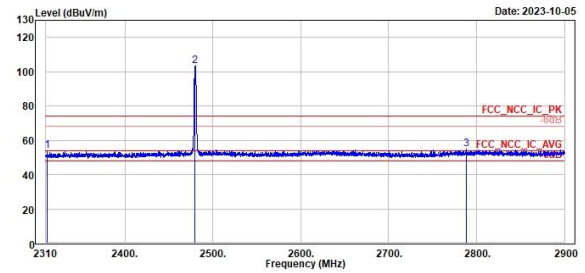
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2383.75	54.08	16.91	37.17	74.00	-19.92	377	202	Peak	Horizontal	
2 *	2488.00	109.44	71.90	37.54	74.00	35.44	377	202	Peak	Horizontal	
3	2483.58	56.45	18.91	37.54	74.00	-17.55	377	202	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2311.89	53.75	16.88	36.87	74.00	-20.25	300	150	Peak	Vertical	
2 *	2488.00	103.11	65.57	37.54	74.00	29.11	300	150	Peak	Vertical	
3	2787.90	54.77	17.15	37.62	74.00	-19.23	300	150	Peak	Vertical	

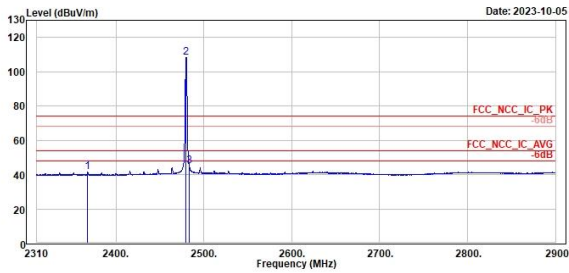
BLE_1M

High Channel (Horizontal) Average

High Channel (Vertical) Average



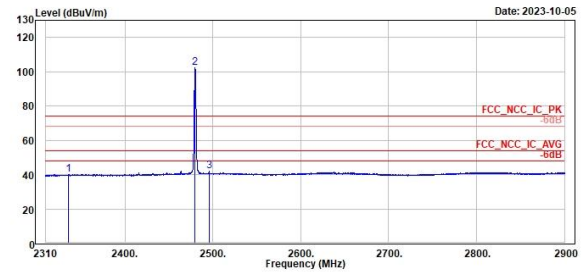
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1	2	3
Level	Level	Level
Factor	Factor	Factor
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
APos	APos	APos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2368.06	2488.00	2483.46
41.45	108.48	44.74
4.26	70.94	7.20
37.19	37.54	37.54
54.00	54.00	54.00
-12.55	54.48	-9.26
377	377	377
202	202	202
Average	Average	Average
Horizontal	Horizontal	Horizontal



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1	2	3
Level	Level	Level
Factor	Factor	Factor
Limit	Limit	Limit
Over	Over	Over
Limit	Limit	Limit
APos	APos	APos
TPos	TPos	TPos
Remark	Remark	Remark
Pol/Phase	Pol/Phase	Pol/Phase
Note	Note	Note
2335.96	2488.00	2496.09
40.18	102.09	41.81
3.09	64.55	4.25
37.09	37.54	37.56
54.00	54.00	54.00
-13.82	48.09	-12.19
300	300	300
150	150	150
Average	Average	Average
Vertical	Vertical	Vertical

BLE_2M

Low Channel (Horizontal) Peak

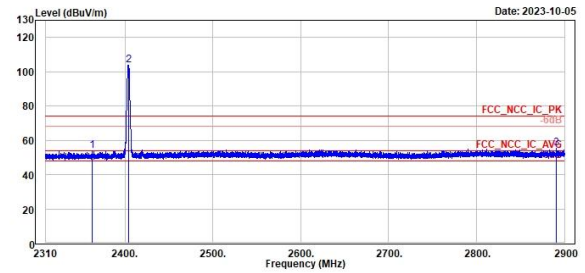
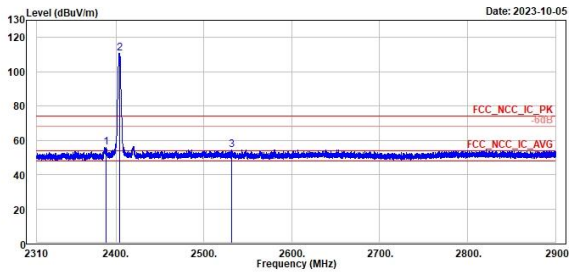
Low Channel (Vertical) Peak



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
MHz	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	cm	deg				dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	cm	deg			
2389.20	56.04	18.87	37.17	74.00	-17.96		313	203	Peak	Horizontal		2362.55	53.75	16.56	37.19	74.00	-20.25	393	283	Peak	Vertical		
2404.00	110.60	73.42	37.18	74.00	36.60		313	203	Peak	Horizontal		2404.00	103.90	66.72	37.18	74.00	29.90	393	283	Peak	Vertical		
2532.12	54.62	17.16	37.46	74.00	-19.38		313	203	Peak	Horizontal		2898.18	55.39	17.49	37.90	74.00	-18.61	393	283	Peak	Vertical		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
MHz	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	cm	deg				dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	cm	deg			
2389.20	56.04	18.87	37.17	74.00	-17.96		313	203	Peak	Horizontal		2362.55	53.75	16.56	37.19	74.00	-20.25	393	283	Peak	Vertical		
2404.00	110.60	73.42	37.18	74.00	36.60		313	203	Peak	Horizontal		2404.00	103.90	66.72	37.18	74.00	29.90	393	283	Peak	Vertical		
2532.12	54.62	17.16	37.46	74.00	-19.38		313	203	Peak	Horizontal		2898.18	55.39	17.49	37.90	74.00	-18.61	393	283	Peak	Vertical		

BLE_2M

Low Channel (Horizontal) Average

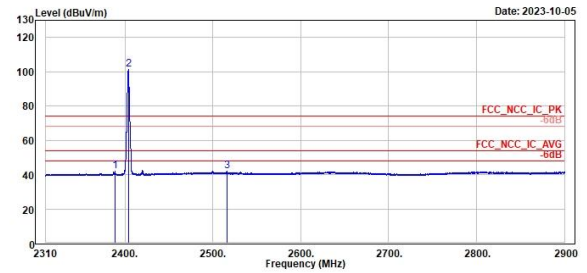
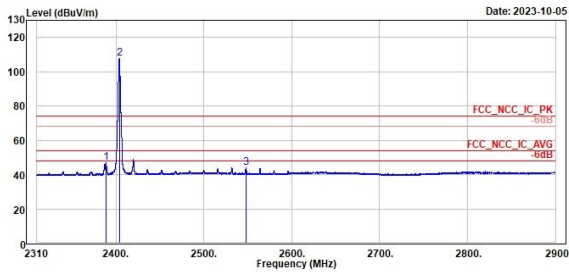
Low Channel (Vertical) Average



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	2388.75	47.20	10.03	37.17	54.00	-6.80	313	203	Average	Horizontal									
2	2404.00	107.78	70.60	37.18	54.00	53.78	313	203	Average	Horizontal									
3	2548.01	44.08	6.67	37.41	54.00	-9.92	313	203	Average	Horizontal									

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note									
1	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg											
1	2388.71	41.98	4.81	37.17	54.00	-12.02	393	283	Average	Vertical									
2	2404.00	101.11	63.93	37.18	54.00	47.11	393	283	Average	Vertical									
3	2516.05	42.02	4.51	37.51	54.00	-11.98	393	283	Average	Vertical									

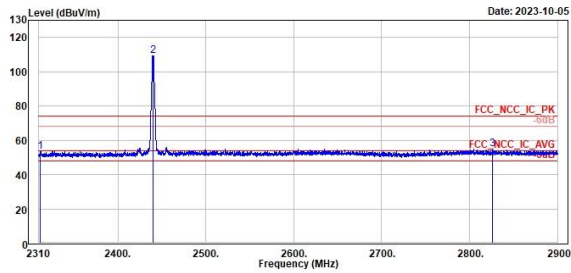
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



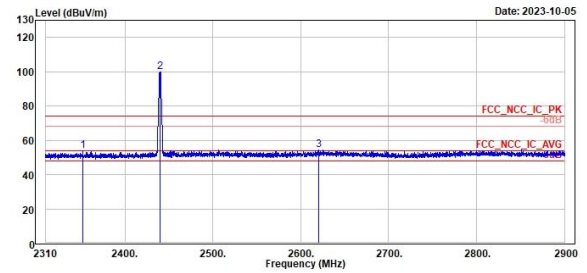
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1	2	3	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg					
2311.65	53.39	16.53	36.86	74.00	-20.61	385	210	Peak		Horizontal		
2448.00	109.06	71.62	37.44	74.00	35.06	385	210	Peak		Horizontal		
2825.98	55.09	17.33	37.76	74.00	-18.91	385	210	Peak		Horizontal		



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1	2	3	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg					
2352.01	53.66	16.45	37.21	74.00	-20.34	348	233	Peak		Vertical		
2448.00	99.66	62.22	37.44	74.00	25.66	348	233	Peak		Vertical		
2628.34	54.20	16.57	37.63	74.00	-19.80	348	233	Peak		Vertical		

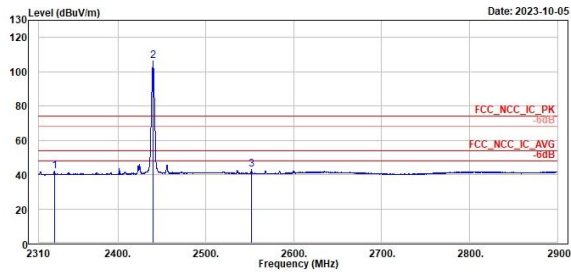
BLE_2M

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



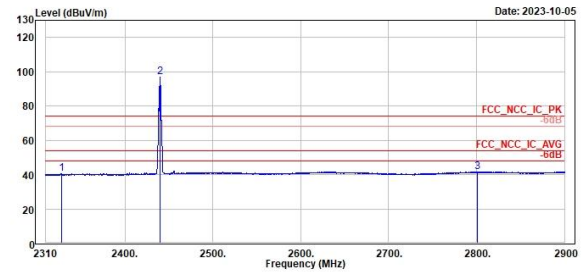
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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2327.94	41.89	4.88	37.01	54.00	-12.11	385	210	Average	Horizontal		
2448.00	106.28	68.84	37.44	54.00	52.28	385	210	Average	Horizontal		
2552.02	42.85	5.43	37.42	54.00	-11.15	385	210	Average	Horizontal		



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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2328.05	40.65	3.64	37.01	54.00	-13.35	348	233	Average	Vertical		
2448.00	96.87	59.43	37.44	54.00	42.87	348	233	Average	Vertical		
2801.23	41.66	3.92	37.74	54.00	-12.34	348	233	Average	Vertical		

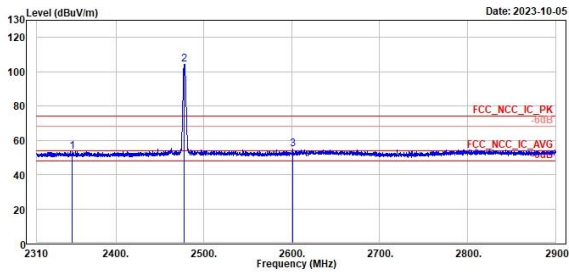
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



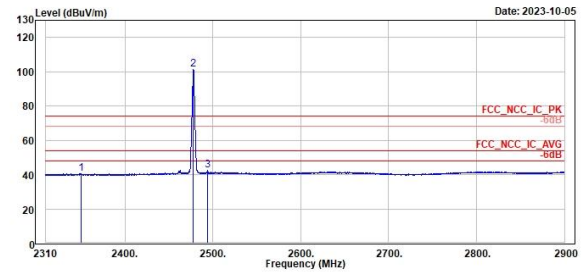
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2350.24	53.58	16.37	37.21	74.00	-20.42	374	35	Peak	Vertical	
2 *	2478.00	104.12	66.58	37.54	74.00	30.12	374	35	Peak	Vertical	
3	2600.75	54.85	17.20	37.65	74.00	-19.15	374	35	Peak	Vertical	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2350.00	40.71	3.50	37.21	54.00	-13.29	374	35	Average	Vertical	
2 *	2478.00	101.11	63.57	37.54	54.00	47.11	374	35	Average	Vertical	
3	2494.00	42.30	4.75	37.55	54.00	-11.70	374	35	Average	Vertical	

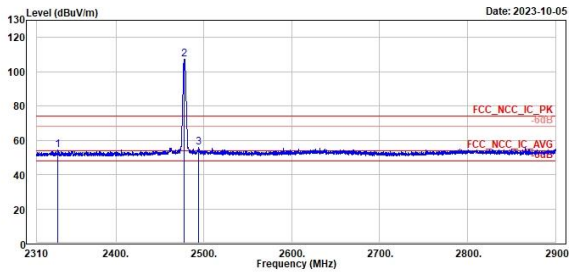
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



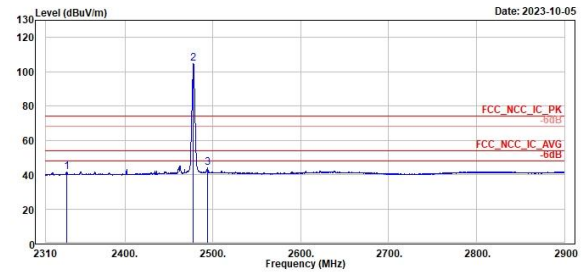
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1	2	3								
Level	Level	Level								
Factor	Factor	Factor								
Limit	Limit	Limit								
Over	Over	Over								
APos	APos	APos								
TPos	TPos	TPos								
Remark	Remark	Remark								
Pol/Phase	Pol/Phase	Pol/Phase								
Note	Note	Note								
MHz	dBuV/m	dBuV								
dB/m	dBuV/m	dB								
2334.07	54.19	17.13	37.06	74.00	-19.81	372	210	Peak	Horizontal	
2478.00	107.39	69.85	37.54	74.00	33.39	372	210	Peak	Horizontal	
2494.43	55.88	18.33	37.55	74.00	-18.12	372	210	Peak	Horizontal	

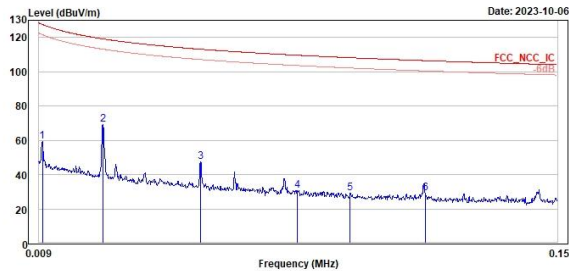


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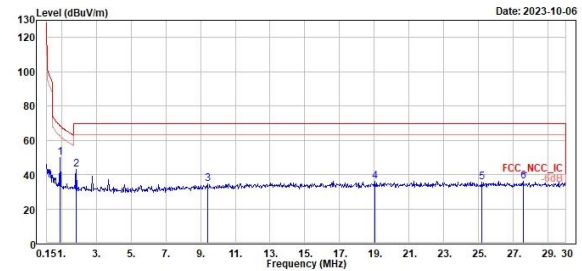


1	2	3								
Level	Level	Level								
Factor	Factor	Factor								
Limit	Limit	Limit								
Over	Over	Over								
APos	APos	APos								
TPos	TPos	TPos								
Remark	Remark	Remark								
Pol/Phase	Pol/Phase	Pol/Phase								
Note	Note	Note								
MHz	dBuV/m	dBuV								
dB/m	dBuV/m	dB								
2334.31	41.75	4.69	37.06	54.00	-12.25	372	210	Average	Horizontal	
2478.00	104.59	67.05	37.54	54.00	50.59	372	210	Average	Horizontal	
2493.96	44.12	6.57	37.55	54.00	-9.88	372	210	Average	Horizontal	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz
BLE_2M
High Channel (Open) 9kHz~150kHz
High Channel (Open) 150kHz~30MHz

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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.01	59.26	41.54	17.72	127.60	-68.34	100	191	Peak	Open	
2	0.03	69.39	50.44	18.95	119.13	-49.74	100	179	Peak	Open	
3	0.05	47.32	28.28	19.04	113.11	-65.79	100	160	Peak	Open	
4	0.08	30.86	12.44	18.42	109.62	-78.76	100	318	Peak	Open	
5	0.09	29.19	11.12	18.07	108.17	-78.98	100	170	Peak	Open	
6	0.11	28.96	10.98	17.98	106.44	-77.48	100	39	Peak	Open	

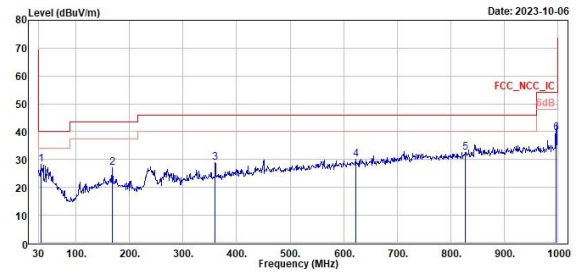
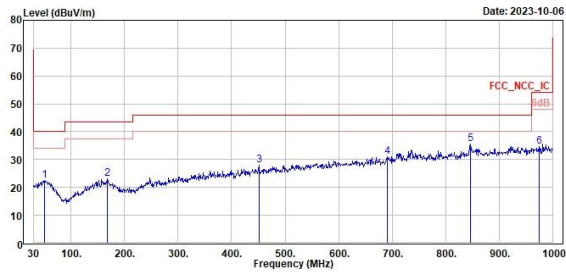

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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	PoI/Phase	Note
1	0.93	49.89	30.85	19.04	68.27	-18.38	100	78	Peak	Open	
2	1.85	42.96	23.64	19.32	69.50	-26.54	100	179	Peak	Open	
3	9.40	34.41	13.88	21.33	69.50	-35.09	100	86	Peak	Open	
4	19.02	36.11	13.88	22.23	69.50	-33.39	100	149	Peak	Open	
5	25.19	35.69	13.35	22.34	69.50	-33.81	100	348	Peak	Open	
6	27.55	35.93	13.57	22.36	69.50	-33.57	100	68	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)


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Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	50.37	22.44	28.09	-5.65	40.00	-17.56	100	360 Peak	Horizontal	
2	167.74	23.16	28.88	-5.72	43.50	-20.34	100	313 Peak	Horizontal	
3	450.98	27.86	29.88	-2.02	46.00	-18.14	100	143 Peak	Horizontal	
4	690.57	30.89	29.13	1.76	46.00	-15.11	100	277 Peak	Horizontal	
5	846.74	35.69	31.59	4.10	46.00	-10.31	100	276 Peak	Horizontal	
6	975.75	34.58	28.90	5.68	54.00	-19.42	100	23 Peak	Horizontal	

Peak	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	33.88	28.20	35.74	-7.54	40.00	-11.80	100	80 Peak	Vertical	
2	167.74	26.98	32.70	-5.72	43.50	-16.52	100	155 Peak	Vertical	
3	359.80	28.95	32.51	-3.56	46.00	-17.05	100	119 Peak	Vertical	
4	622.67	30.21	29.38	0.83	46.00	-15.79	100	205 Peak	Vertical	
5	827.34	32.68	29.03	3.65	46.00	-13.32	100	320 Peak	Vertical	
6	997.09	39.54	33.31	6.23	54.00	-14.46	100	346 Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

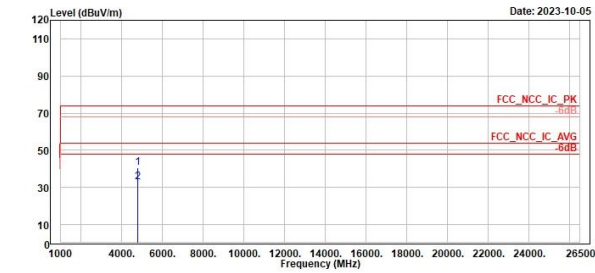
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



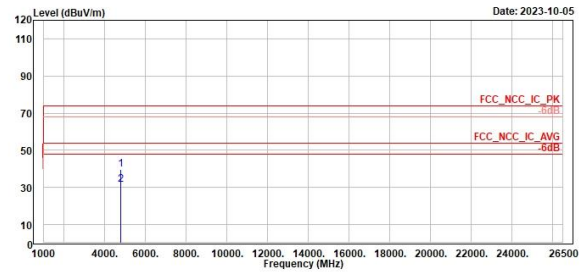
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Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4894.00	40.38	49.41	-9.03	74.00	-33.62	300	360 Peak	Horizontal
2	4894.00	33.01	42.04	-9.03	54.00	-20.99	300	360 Average	Horizontal



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Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4894.00	39.79	48.82	-9.03	74.00	-34.21	100	111 Peak	Vertical
2	4894.00	31.27	40.30	-9.03	54.00	-22.73	100	111 Average	Vertical

BLE_1M

Middle Channel (Horizontal)

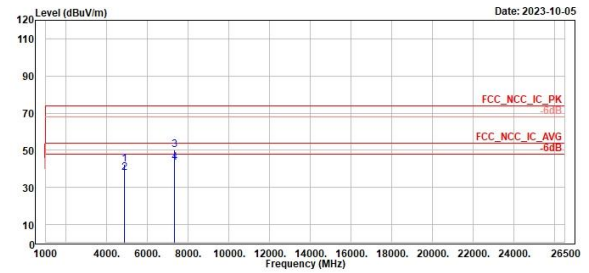
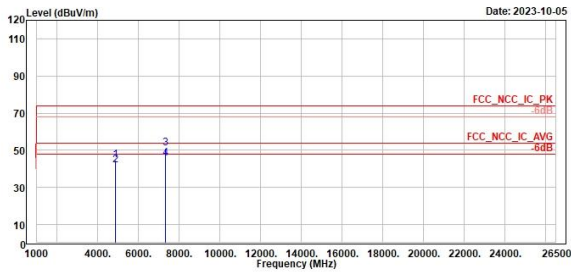
Middle Channel (Vertical)



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Line	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	4880.00	44.73	53.77	-9.04	74.00	-29.27	360	59	Peak	Horizontal	
2	4880.00	42.17	51.21	-9.04	54.00	-11.83	360	59	Average	Horizontal	
3	7320.00	51.15	58.23	-7.08	74.00	-22.85	100	328	Peak	Horizontal	
4	7320.00	45.42	52.50	-7.08	54.00	-8.58	100	328	Average	Horizontal	

Line	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	4880.00	42.47	51.51	-9.04	74.00	-31.53	100	167	Peak	Vertical	
2	4880.00	37.86	46.90	-9.04	54.00	-16.14	100	167	Average	Vertical	
3	7320.00	50.12	57.20	-7.08	74.00	-23.88	330	360	Peak	Vertical	
4	7320.00	43.55	50.63	-7.08	54.00	-10.45	330	360	Average	Vertical	

BLE_1M

High Channel (Horizontal)

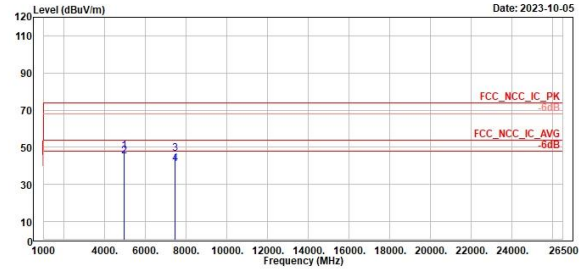
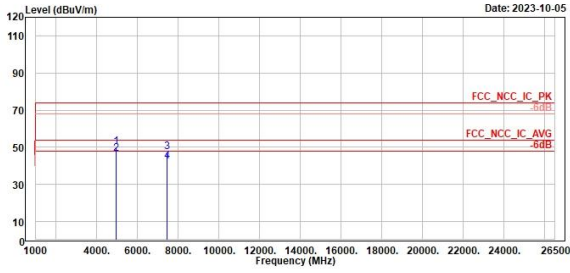
High Channel (Vertical)



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1	2	3	4
Level	Read Level	Factor	Limit
dBuV/m	dBuV	dB/m	dBuV/m
50.22	59.06	-8.84	74.00
46.72	55.56	-8.84	54.00
47.29	54.47	-7.18	74.00
42.51	49.69	-7.18	54.00

Over Limit	APos	TPos	Remark	Pol/Phase	Note
dB	cm	deg			
-23.78	400	46	Peak	Horizontal	
-7.28	400	46	Average	Horizontal	
-26.71	100	33	Peak	Horizontal	
-11.49	100	33	Average	Horizontal	

1	2	3	4
Level	Read Level	Factor	Limit
dBuV/m	dBuV	dB/m	dBuV/m
47.82	56.66	-8.84	74.00
45.35	54.19	-8.84	54.00
46.43	53.61	-7.18	74.00
40.89	48.07	-7.18	54.00

Over Limit	APos	TPos	Remark	Pol/Phase	Note
dB	cm	deg			
-26.18	400	123	Peak	Vertical	
-8.65	400	123	Average	Vertical	
-27.57	360	360	Peak	Vertical	
-13.11	360	360	Average	Vertical	

BLE_2M

Low Channel (Horizontal)

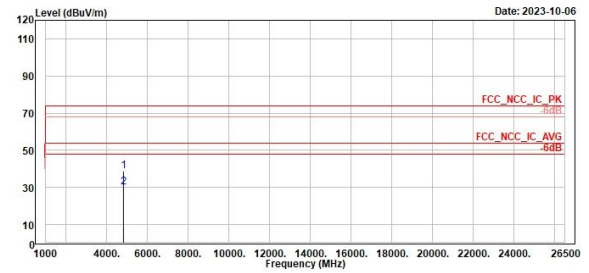
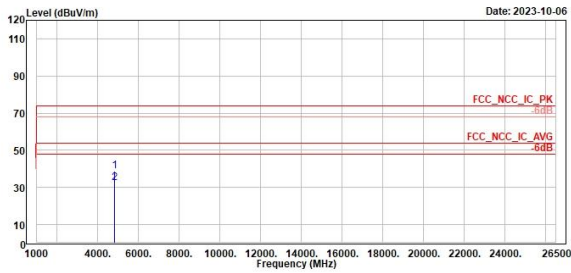
Low Channel (Vertical)



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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	4888.00	38.98	48.00	-9.02	74.00	-35.02	300	19 Peak	Horizontal	
2	4888.00	32.56	41.58	-9.02	54.00	-21.44	300	19 Average	Horizontal	

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	4888.00	38.69	47.71	-9.02	74.00	-35.31	118	360 Peak	Vertical	
2	4888.00	29.92	38.94	-9.02	54.00	-24.08	118	360 Average	Vertical	

BLE_2M

Middle Channel (Horizontal)

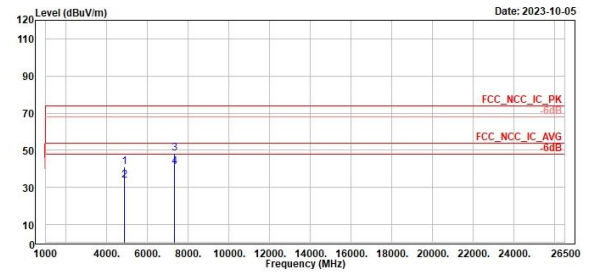
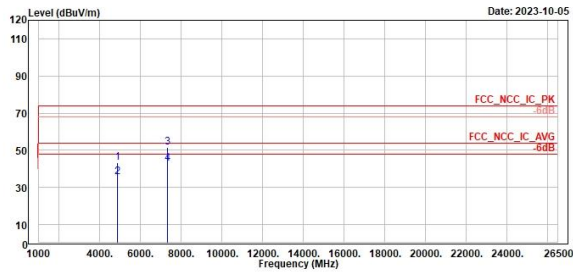
Middle Channel (Vertical)



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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	4880.00	43.57	52.61	-9.04	74.00	-30.43	100	193 Peak	Horizontal	
2	4880.00	35.45	44.49	-9.04	54.00	-18.55	100	193 Average	Horizontal	
3	7320.00	51.65	58.73	-7.08	74.00	-22.35	100	335 Peak	Horizontal	
4	7320.00	42.76	49.84	-7.08	54.00	-11.24	100	335 Average	Horizontal	

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	4880.00	41.25	50.29	-9.04	74.00	-32.75	200	138 Peak	Vertical	
2	4880.00	33.54	42.58	-9.04	54.00	-20.46	200	138 Average	Vertical	
3	7320.00	48.26	55.34	-7.08	74.00	-25.74	297	360 Peak	Vertical	
4	7320.00	40.88	47.96	-7.08	54.00	-13.12	297	360 Average	Vertical	

BLE_2M

High Channel (Horizontal)

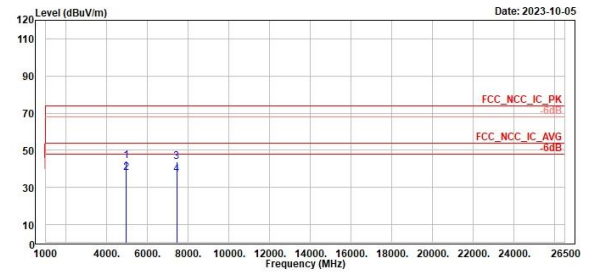
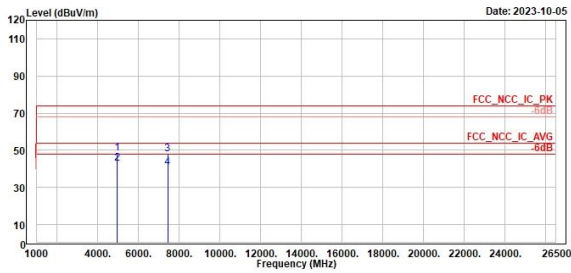
High Channel (Vertical)



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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	4956.00	48.24	57.08	-8.84	74.00	-25.76	354	54 Peak	Horizontal	
2	4956.00	42.93	51.77	-8.84	54.00	-11.07	354	54 Average	Horizontal	
3	7434.00	47.69	54.87	-7.18	74.00	-26.31	100	40 Peak	Horizontal	
4	7434.00	40.48	47.66	-7.18	54.00	-13.52	100	40 Average	Horizontal	

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	4956.00	44.16	53.00	-8.84	74.00	-29.84	225	163 Peak	Vertical	
2	4956.00	37.97	46.81	-8.84	54.00	-16.03	225	163 Average	Vertical	
3	7434.00	43.94	51.12	-7.18	74.00	-30.06	300	153 Peak	Vertical	
4	7434.00	37.02	44.20	-7.18	54.00	-16.98	300	153 Average	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

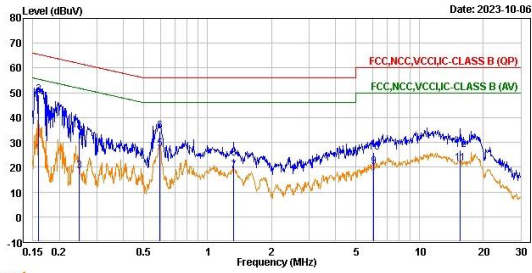
Worst Band

(Line)

(Neutral)



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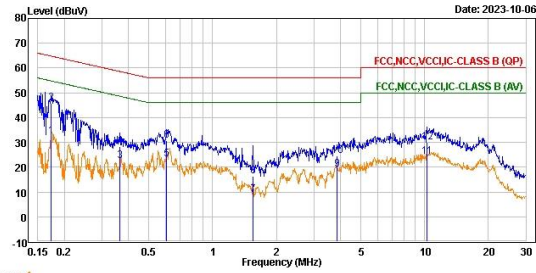


Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	25.38	15.76	9.62	55.50	-30.12	Average	line1	
2	0.16	49.19	39.57	9.62	65.50	-16.31	QP	line1	
3	0.25	18.39	8.77	9.62	51.86	-33.47	Average	line1	
4	0.25	34.27	24.65	9.62	61.86	-27.59	QP	line1	
5	0.59	27.20	17.57	9.63	46.00	-18.80	Average	line1	
6	0.59	34.62	24.99	9.63	56.00	-21.38	QP	line1	
7	1.33	18.27	8.63	9.64	46.00	-27.73	Average	line1	
8	1.33	23.56	13.92	9.64	56.00	-32.44	QP	line1	
9	6.06	20.10	10.38	9.72	50.00	-29.90	Average	line1	
10	6.06	26.09	16.37	9.72	60.00	-33.91	QP	line1	
11	15.54	21.54	11.78	9.76	50.00	-28.46	Average	line1	
12	15.54	26.86	17.10	9.76	60.00	-33.14	QP	line1	



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Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.17	32.40	22.78	9.62	54.80	-22.40	Average	neutral	
2	0.17	45.83	36.21	9.62	64.80	-18.97	QP	neutral	
3	0.37	22.42	12.79	9.63	48.59	-26.17	Average	neutral	
4	0.37	28.41	18.78	9.63	58.59	-30.18	QP	neutral	
5	0.61	23.15	13.52	9.63	46.00	-22.85	Average	neutral	
6	0.61	30.66	21.03	9.63	56.00	-25.34	QP	neutral	
7	1.55	8.89	-0.77	9.66	46.00	-37.11	Average	neutral	
8	1.55	16.29	6.63	9.66	56.00	-39.71	QP	neutral	
9	3.85	19.01	9.32	9.69	46.00	-26.99	Average	neutral	
10	3.85	24.61	14.92	9.69	56.00	-31.39	QP	neutral	
11	10.22	24.20	14.41	9.79	50.00	-25.80	Average	neutral	
12	10.22	30.08	20.29	9.79	60.00	-29.92	QP	neutral	

2nd Source, ECC Mode for Antenna No. 3
Band Edges, 2.31GHz ~ 2.9GHz

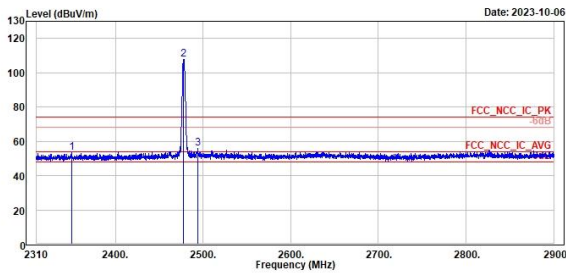
BLE_2M

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



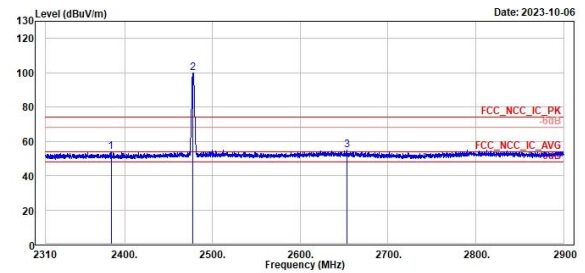
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1	2	3
2358.12	2478.00	2493.73
53.45	107.99	55.87
16.24	70.45	18.32
37.21	37.54	37.55
74.00	74.00	74.00
-20.55	33.99	-18.13
206	206	206
210 Peak	210 Peak	210 Peak
Horizontal	Horizontal	Horizontal



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1	2	3
2384.58	2478.00	2653.50
53.74	99.74	54.96
16.57	62.20	17.37
37.17	37.54	37.59
74.00	74.00	74.00
-20.26	25.74	-19.04
371	371	371
227 Peak	227 Peak	227 Peak
Vertical	Vertical	Vertical

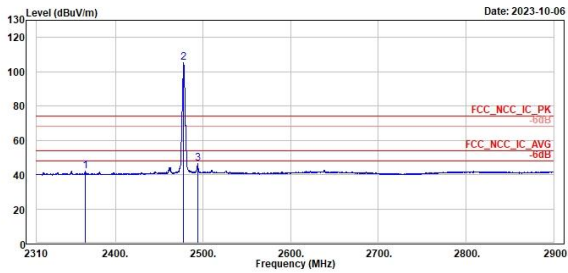
BLE_2M

High Channel (Horizontal) Average

High Channel (Vertical) Average



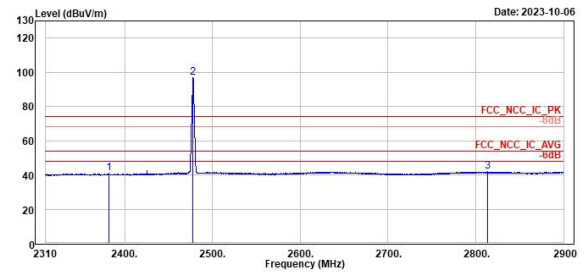
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1	2	3	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2365.70	41.91	4.71	37.20	54.00	-12.09	206	210	Average	Horizontal		
2478.00	105.28	67.74	37.54	54.00	51.28	206	210	Average	Horizontal		
2493.96	46.29	8.74	37.55	54.00	-7.71	206	210	Average	Horizontal		



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1	2	3	Read Level	Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2381.98	40.85	3.67	37.18	54.00	-13.15	371	227	Average	Vertical		
2478.00	96.98	59.44	37.54	54.00	42.98	371	227	Average	Vertical		
2813.51	41.81	4.06	37.75	54.00	-12.19	371	227	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

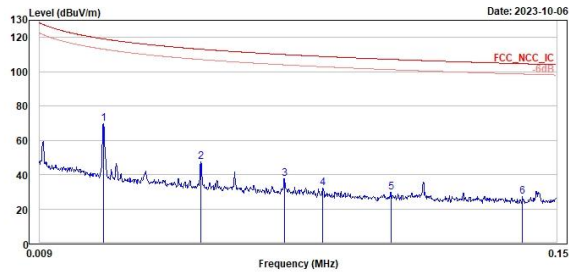
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



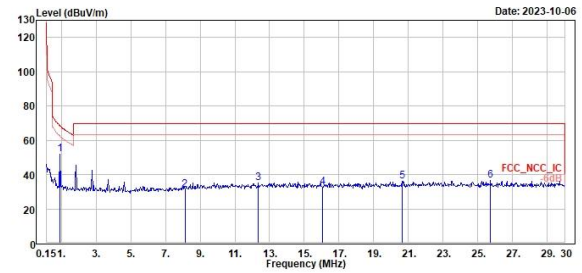
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	69.60	50.65	18.95	119.13	-49.53	100	170 Peak	Open
2	0.05	47.44	28.40	19.04	113.11	-65.67	100	302 Peak	Open
3	0.08	37.45	18.95	18.50	110.00	-72.55	100	168 Peak	Open
4	0.09	32.24	13.99	18.25	108.88	-76.64	100	228 Peak	Open
5	0.10	29.80	11.86	17.94	107.13	-77.38	100	165 Peak	Open
6	0.14	27.03	8.95	18.00	104.63	-77.60	100	157 Peak	Open



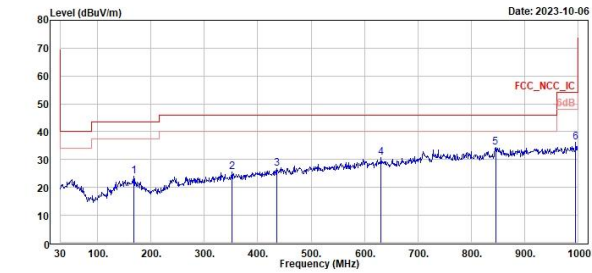
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.93	52.05	33.01	19.04	68.27	-16.22	100	203 Peak	Open
2	8.12	31.25	10.45	20.80	69.50	-38.25	100	277 Peak	Open
3	12.36	34.97	13.22	21.75	69.50	-34.53	100	316 Peak	Open
4	16.06	32.86	10.85	22.01	69.50	-36.64	100	111 Peak	Open
5	20.66	36.01	13.70	22.31	69.50	-33.49	100	281 Peak	Open
6	25.73	36.76	14.41	22.35	69.50	-32.74	100	248 Peak	Open

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)

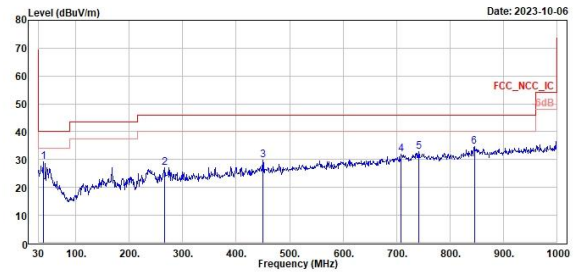

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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	167.74	24.12	29.84	-5.72	43.50	-19.38	100	130	Peak	Horizontal	
2	351.07	25.41	29.27	-3.86	46.00	-20.59	100	144	Peak	Horizontal	
3	436.43	26.88	29.02	-2.14	46.00	-19.12	100	274	Peak	Horizontal	
4	631.40	30.59	29.56	1.03	46.00	-15.41	100	194	Peak	Horizontal	
5	845.77	34.43	30.33	4.10	46.00	-11.57	100	255	Peak	Horizontal	
6	996.12	36.22	29.99	6.23	54.00	-17.78	100	20	Peak	Horizontal	



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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	38.73	29.16	36.18	-7.02	40.00	-10.84	100	100	Peak	Vertical	
2	266.68	27.00	32.92	-5.92	46.00	-19.00	100	0	Peak	Vertical	
3	450.01	29.90	31.89	-1.99	46.00	-16.10	100	164	Peak	Vertical	
4	709.00	31.79	29.58	2.21	46.00	-14.21	100	96	Peak	Vertical	
5	741.90	32.78	29.95	2.83	46.00	-13.22	100	86	Peak	Vertical	
6	845.77	34.65	30.55	4.10	46.00	-11.35	100	34	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

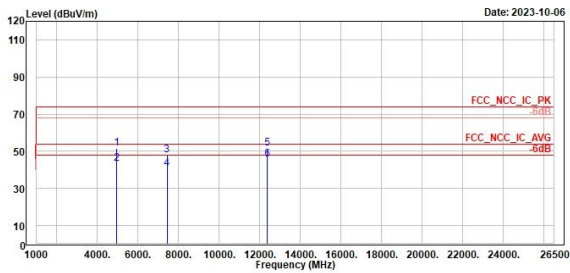
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



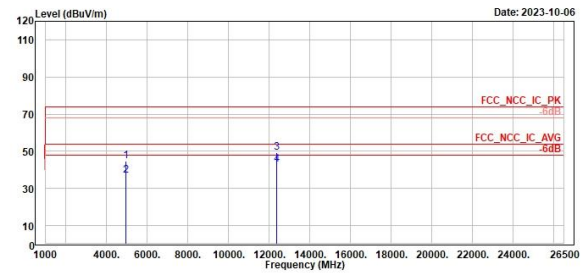
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1	2	3	4	5	6
Level	Read Level	Factor	Limit	Over	APos
dBuV/m	dBuV	dB/m	dBuV/m	dB	cm
51.48	60.32	-8.84	74.00	-22.52	100
43.35	52.19	-8.84	54.00	-18.65	100
47.90	55.08	-7.18	74.00	-26.10	100
40.65	47.83	-7.18	54.00	-13.35	100
51.73	51.52	0.21	74.00	-22.27	100
45.69	45.48	0.21	54.00	-8.31	100



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1	2	3	4
Level	Read Level	Factor	Limit
dBuV/m	dBuV	dB/m	dBuV/m
44.51	53.35	-8.84	74.00
37.17	46.01	-8.84	54.00
49.27	49.06	0.21	74.00
43.06	42.85	0.21	54.00

Main Source, Non-ECC Mode for Antenna No. 3
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

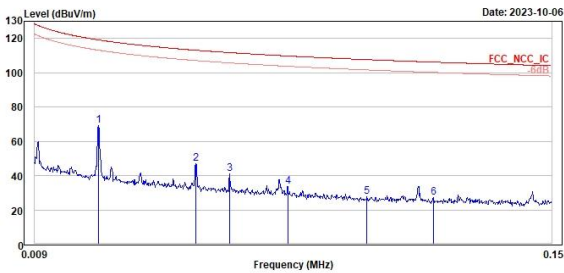
BLE_2M

High Channel (Open) 9kHz~150kHz

High Channel (Open) 150kHz~30MHz



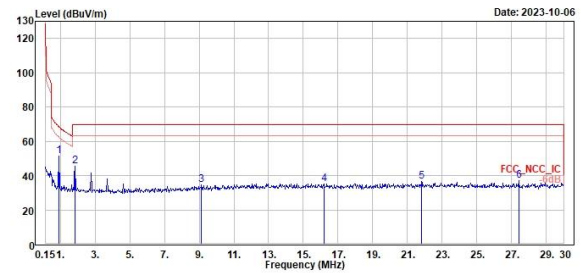
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.03	68.99	50.04	18.95	119.13	-58.14	100	244	Peak	Open	
2	0.05	46.87	27.83	19.04	113.11	-66.24	100	44	Peak	Open	
3	0.06	41.11	22.29	18.82	111.72	-70.61	100	42	Peak	Open	
4	0.08	33.64	15.19	18.45	109.74	-76.10	100	237	Peak	Open	
5	0.10	27.44	9.51	17.93	107.63	-80.19	100	16	Peak	Open	
6	0.12	27.11	9.12	17.99	106.18	-79.07	100	321	Peak	Open	



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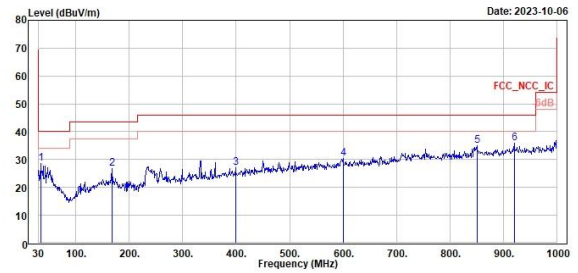
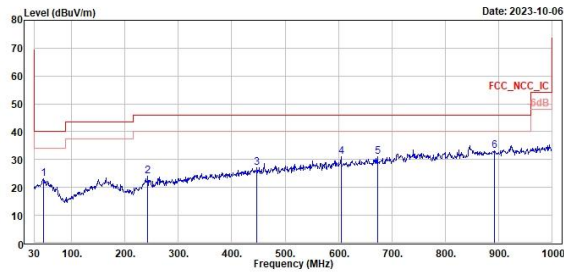


Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.93	51.55	32.51	19.04	68.27	-16.72	100	131	Peak	Open	
2	1.85	45.26	25.94	19.32	69.50	-24.24	100	131	Peak	Open	
3	9.13	34.41	13.20	21.21	69.50	-35.09	100	348	Peak	Open	
4	16.18	35.05	13.03	22.02	69.50	-34.45	100	69	Peak	Open	
5	21.82	36.39	14.08	22.31	69.50	-33.11	100	181	Peak	Open	
6	27.40	37.13	14.77	22.36	69.50	-32.37	100	333	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
BLE_2M
High Channel (Horizontal)
High Channel (Vertical)


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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	46.49	23.04	28.91	-5.87	40.00	-16.96	100	65	Peak	Horizontal	
2	242.43	23.98	30.53	-6.55	46.00	-22.02	100	120	Peak	Horizontal	
3	447.10	27.02	28.94	-1.92	46.00	-18.98	100	257	Peak	Horizontal	
4	695.21	30.92	30.54	0.38	46.00	-15.08	100	181	Peak	Horizontal	
5	873.11	30.94	29.53	1.41	46.00	-15.06	100	59	Peak	Horizontal	
6	893.30	33.10	28.52	4.58	46.00	-12.90	100	179	Peak	Horizontal	

Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	33.88	28.46	36.00	-7.54	40.00	-11.54	100	103	Peak	Vertical	
2	167.74	26.78	32.50	-5.72	43.50	-16.72	100	150	Peak	Vertical	
3	398.60	27.16	30.07	-2.91	46.00	-18.84	100	358	Peak	Vertical	
4	600.36	30.48	30.02	0.46	46.00	-15.52	100	39	Peak	Vertical	
5	850.62	34.99	30.95	4.04	46.00	-11.01	100	154	Peak	Vertical	
6	920.46	35.74	30.56	5.18	46.00	-10.26	100	28	Peak	Vertical	