

Appendix B: Test Results of Radiated Spurious Emissions & Mains

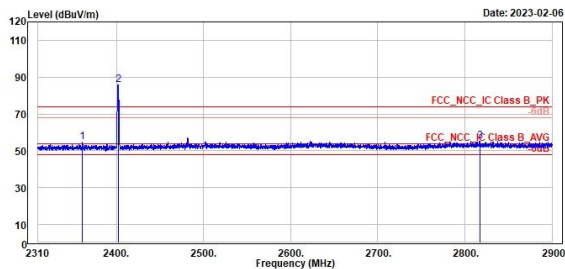
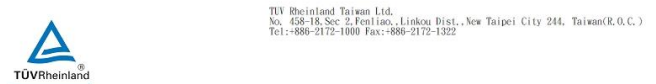
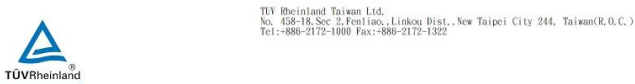
Conducted Emission Test

Band Edges, 2.31GHz ~ 2.9GHz

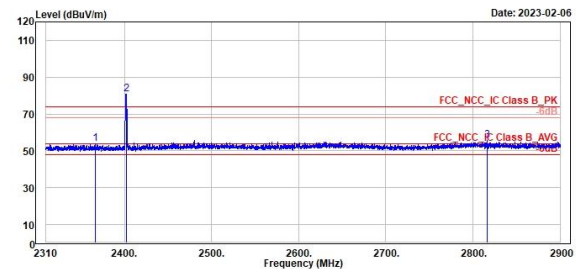
BLE_1M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



	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	2360.62	54.68	16.73	37.95	74.00	-19.32	380	91	Peak	Horizontal		
2 *	2402.00	85.86	47.93	37.93	74.00	11.86	380	91	Peak	Horizontal		
3	2817.40	55.34	16.74	38.60	74.00	-18.66	380	91	Peak	Horizontal		



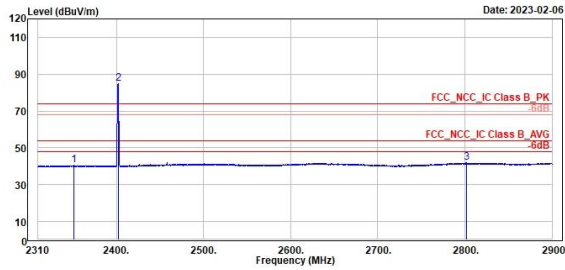
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2366.99	53.98	16.03	37.95	74.00	-20.02	180	249	Peak	Vertical		
2 *	2402.00	80.96	43.03	37.93	74.00	6.96	180	249	Peak	Vertical		
3	2816.10	55.75	17.15	38.60	74.00	-18.25	180	249	Peak	Vertical		

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Low Channel (Horizontal) Average



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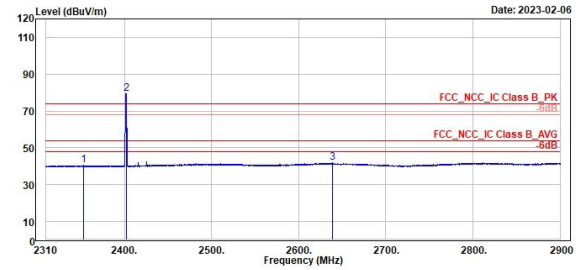


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.06	40.44	2.48	37.96	54.00	-13.56	380	91	Average	Horizontal		
2 *	2402.00	84.79	46.86	37.93	54.00	30.79	380	91	Average	Horizontal		
3	2802.18	41.80	3.22	38.58	54.00	-12.20	380	91	Average	Horizontal		

Low Channel (Vertical) Average



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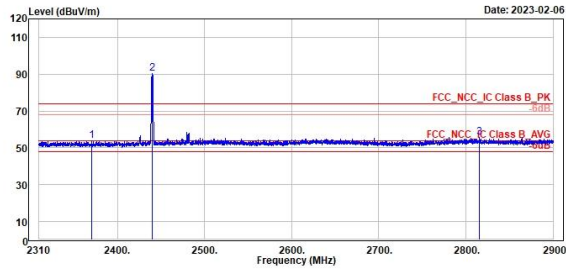
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1	2352.95	40.38	2.43	37.95	54.00	-13.62	100	249	Average	Vertical		
2 *	2402.00	79.54	41.61	37.93	54.00	25.54	100	249	Average	Vertical		
3	2638.75	41.79	3.38	38.41	54.00	-12.21	100	249	Average	Vertical		

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Middle Channel (Horizontal) Peak



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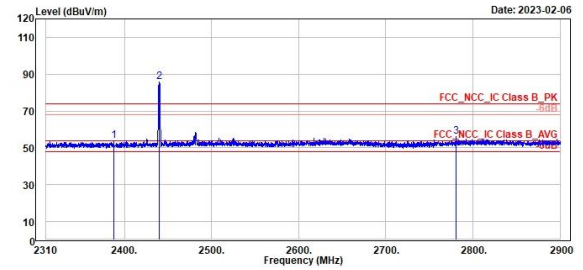


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2378.30	53.98	16.04	37.94	74.00	-20.02	323	94	Peak	Horizontal	
2 *	2440.00	90.15	51.95	38.20	74.00	16.15	323	94	Peak	Horizontal	
3	2815.63	55.56	16.96	38.60	74.00	-18.44	323	94	Peak	Horizontal	

Middle Channel (Vertical) Peak



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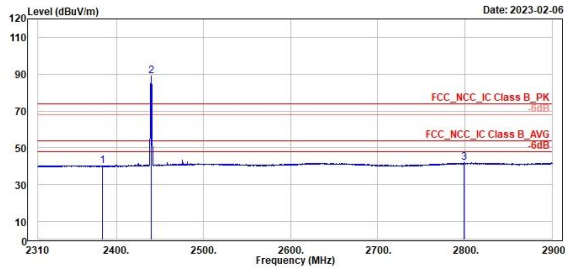
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.64	53.63	15.71	37.92	74.00	-20.37	100	84	Peak	Vertical	
2 *	2440.00	85.71	47.51	38.20	74.00	11.71	100	84	Peak	Vertical	
3	2780.47	56.04	17.64	38.40	74.00	-17.96	100	84	Peak	Vertical	

BLE_1M

Middle Channel (Horizontal) Average



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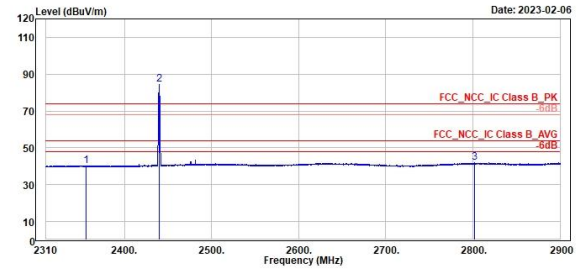


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.87	40.37	2.44	37.93	54.00	-13.63	323	94	Average	Horizontal	
2 *	2440.00	89.03	50.83	38.20	54.00	35.03	323	94	Average	Horizontal	
3	2799.11	41.90	3.33	38.57	54.00	-12.10	323	94	Average	Horizontal	

Middle Channel (Vertical) Average



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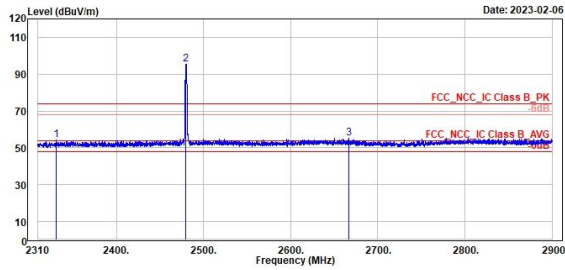
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1	2355.67	40.29	2.34	37.95	54.00	-13.71	100	84	Average	Vertical	
2 *	2440.00	84.61	46.41	38.20	54.00	30.61	100	84	Average	Vertical	
3	2802.06	41.82	3.24	38.58	54.00	-12.18	100	84	Average	Vertical	

BLE_1M

High Channel (Horizontal) Peak



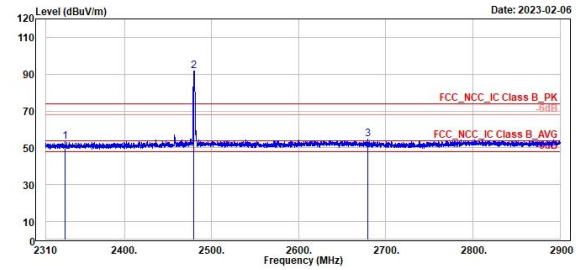
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2331.24	54.16	16.38	37.78	74.00	-19.84	348	95	Peak	Horizontal		
2 *	2480.00	95.44	57.13	38.31	74.00	21.44	348	95	Peak	Horizontal		
3	2666.83	55.41	17.06	38.35	74.00	-18.59	348	95	Peak	Horizontal		



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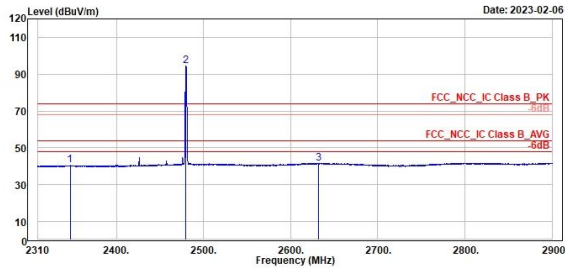
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1	2332.18	53.39	15.59	37.80	74.00	-20.61	100	252	Peak	Vertical		
2 *	2480.00	91.63	53.32	38.31	74.00	17.63	100	252	Peak	Vertical		
3	2679.58	54.70	16.38	38.32	74.00	-19.30	100	252	Peak	Vertical		

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High Channel (Horizontal) Average



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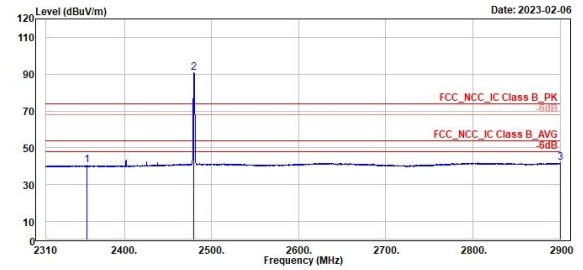


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2346.93	40.43	2.50	37.93	54.00	-13.57		348	95	Average	Horizontal	
2 *	2480.00	94.33	56.02	38.31	54.00	40.33		348	95	Average	Horizontal	
3	2632.49	41.74	3.32	38.42	54.00	-12.26		348	95	Average	Horizontal	

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	2357.44	40.42	2.47	37.95	54.00	-13.58		100	252	Average	Vertical	
2 *	2480.00	90.58	52.27	38.31	54.00	36.58		100	252	Average	Vertical	
3	2899.88	41.79	3.00	38.79	54.00	-12.21		100	252	Average	Vertical	

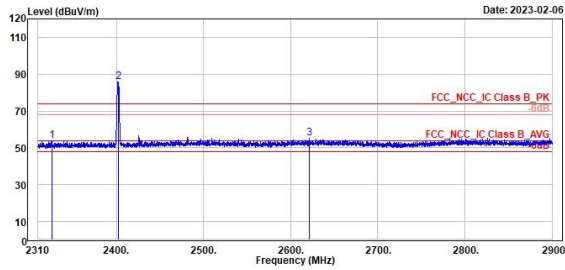
BLE_2M

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



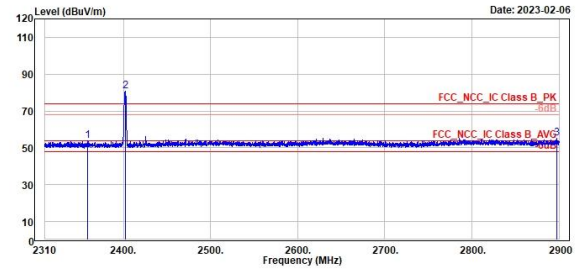
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2326.05	53.80	16.06	37.74	74.00	-20.20		300	92	Peak	Horizontal	
2 *	2402.00	85.92	47.99	37.93	74.00	11.92		300	92	Peak	Horizontal	
3	2621.28	55.19	16.76	38.43	74.00	-18.81		300	92	Peak	Horizontal	



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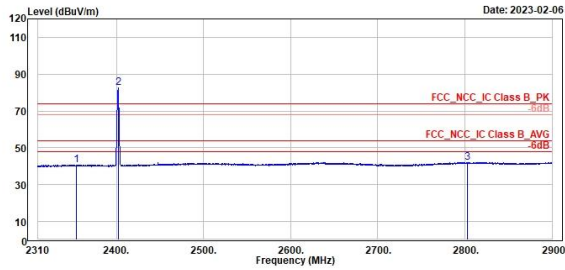
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1	2358.97	53.77	15.82	37.95	74.00	-20.23		100	251	Peak	Vertical	
2 *	2402.00	80.85	42.92	37.93	74.00	6.85		100	251	Peak	Vertical	
3	2897.64	55.19	16.40	38.79	74.00	-18.81		100	251	Peak	Vertical	

BLE_2M

Low Channel (Horizontal) Average



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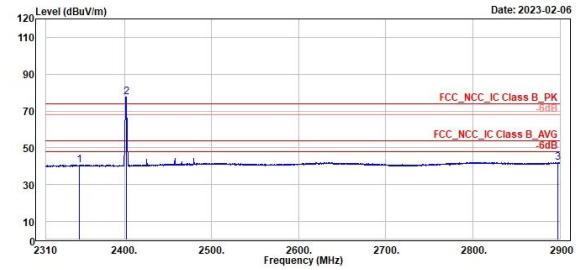


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2354.25	40.73	2.78	37.95	54.00	-13.27	380	92	Average	Horizontal	
2 *	2402.00	82.76	44.83	37.93	54.00	28.76	380	92	Average	Horizontal	
3	2802.53	42.03	3.45	38.58	54.00	-11.97	380	92	Average	Horizontal	

Low 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	2348.11	40.68	2.75	37.93	54.00	-13.32	100	251	Average	Vertical	
2 *	2402.00	77.65	39.72	37.93	54.00	23.65	100	251	Average	Vertical	
3	2897.76	42.18	3.39	38.79	54.00	-11.82	100	251	Average	Vertical	

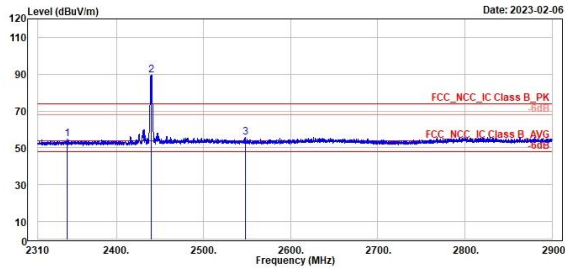
BLE_2M

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



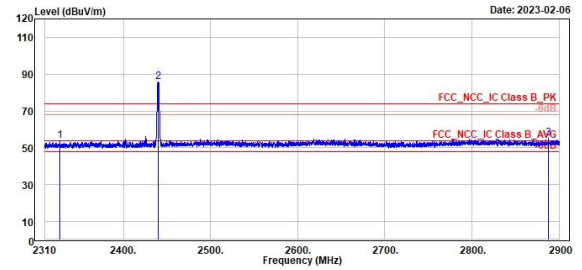
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2343.16	54.54	16.64	37.90	74.00	-19.46	367	91	Peak	Horizontal		
2 *	2440.00	89.39	51.19	38.20	74.00	15.39	367	91	Peak	Horizontal		
3	2547.65	55.84	17.64	38.20	74.00	-18.16	367	91	Peak	Horizontal		



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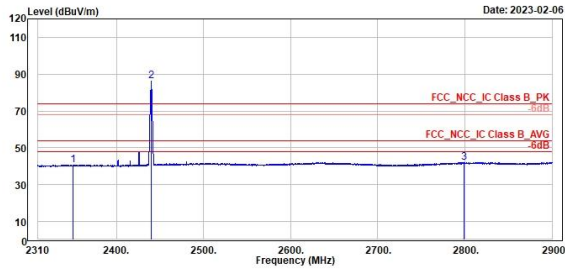
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2327.11	53.68	15.93	37.75	74.00	-20.32	100	84	Peak	Vertical		
2 *	2440.00	85.60	47.40	38.20	74.00	11.60	100	84	Peak	Vertical		
3	2887.37	54.99	16.24	38.75	74.00	-19.01	100	84	Peak	Vertical		

BLE_2M

Middle Channel (Horizontal) Average



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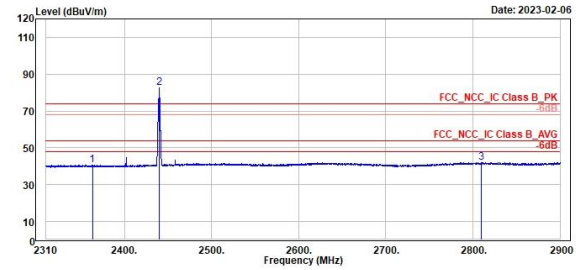


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.59	40.66	2.70	37.96	54.00	-13.34		367	91	Average	Horizontal	
2 *	2440.00	86.40	40.20	38.20	54.00	32.40		367	91	Average	Horizontal	
3	2798.87	42.00	3.43	38.57	54.00	-12.00		367	91	Average	Horizontal	

Middle Channel (Vertical) Average



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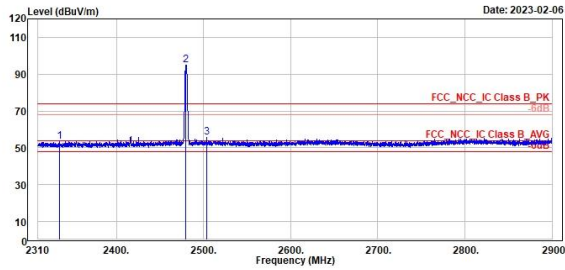
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2363.34	40.66	2.72	37.94	54.00	-13.34		100	84	Average	Vertical	
2 *	2440.00	82.59	44.39	38.20	54.00	28.59		100	84	Average	Vertical	
3	2809.61	41.95	3.36	38.59	54.00	-12.05		100	84	Average	Vertical	

BLE_2M

High Channel (Horizontal) Peak



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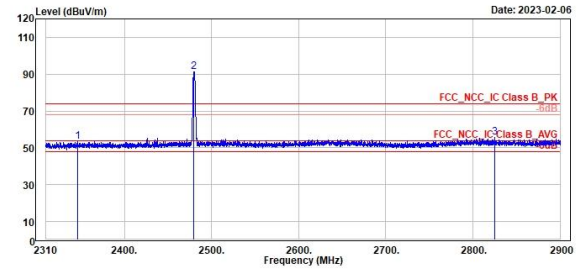


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2334.66	53.42	15.60	37.82	74.00	-20.58		312	93	Peak	Horizontal	
2 *	2480.00	94.83	56.52	38.31	74.00	20.83		312	93	Peak	Horizontal	
3	2503.64	55.64	17.32	38.32	74.00	-18.36		312	93	Peak	Horizontal	

High Channel (Vertical) Peak



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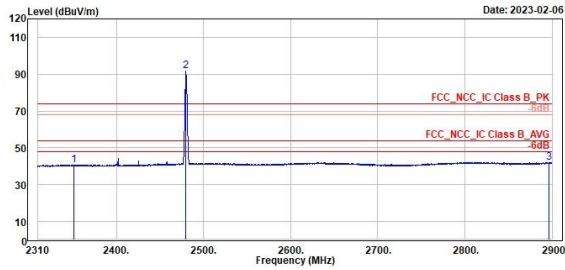
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1	2346.70	53.26	15.34	37.92	74.00	-20.74		100	254	Peak	Vertical	
2 *	2480.00	91.28	52.97	38.31	74.00	17.28		100	254	Peak	Vertical	
3	2825.31	55.88	17.27	38.61	74.00	-18.12		100	254	Peak	Vertical	

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High Channel (Horizontal) Average



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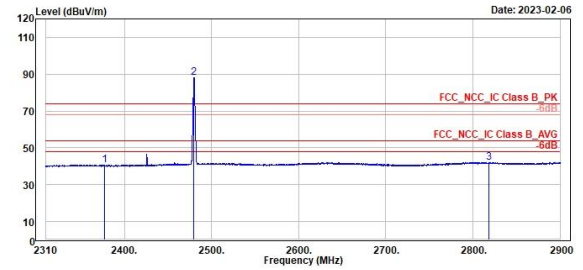


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.18	40.74	2.78	37.96	54.00	-13.26		312	93	Average	Horizontal	
2 *	2480.00	91.81	53.50	38.31	54.00	37.81		312	93	Average	Horizontal	
3	2896.22	42.11	3.33	38.78	54.00	-11.89		312	93	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	2376.91	40.72	2.78	37.94	54.00	-13.28		100	254	Average	Vertical	
2 *	2480.00	87.95	49.64	38.31	54.00	33.95		100	254	Average	Vertical	
3	2818.23	42.17	3.57	38.60	54.00	-11.83		100	254	Average	Vertical	

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

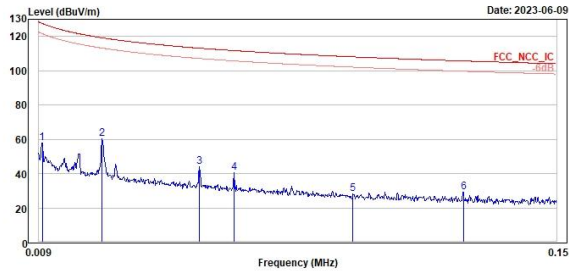
BLE_2M

Low Channel (Open) 9kHz~150kHz

Low Channel (Open) 150kHz~30MHz



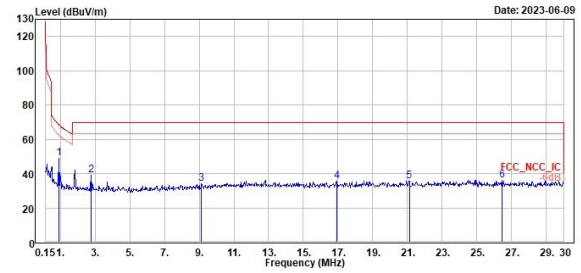
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.01	57.84	40.12	17.72	127.60	-69.76		100	28	Peak	Open	
2	0.03	60.22	41.28	18.94	119.18	-58.96		100	267	Peak	Open	
3	0.05	43.78	24.73	19.05	113.16	-69.38		100	215	Peak	Open	
4	0.06	40.52	21.70	18.82	111.70	-71.18		100	99	Peak	Open	
5	0.09	28.04	9.99	18.05	108.08	-80.04		100	121	Peak	Open	
6	0.12	29.15	11.13	18.02	105.69	-76.54		100	202	Peak	Open	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	0.93	49.11	30.88	19.03	68.27	-19.16		100	133	Peak	Open	
2	2.78	39.21	19.66	19.55	69.50	-30.29		100	133	Peak	Open	
3	9.13	33.88	12.75	21.13	69.50	-35.62		100	250	Peak	Open	
4	16.93	35.36	13.39	21.97	69.50	-34.14		100	332	Peak	Open	
5	21.10	35.36	13.18	22.18	69.50	-34.14		100	111	Peak	Open	
6	26.45	35.95	13.74	22.21	69.50	-33.55		100	292	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

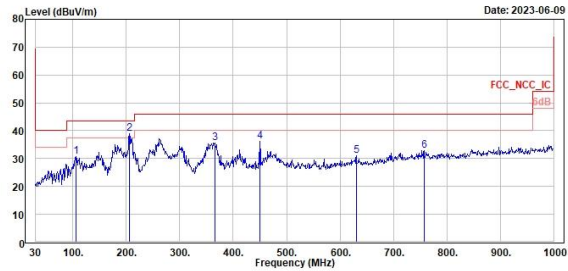
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



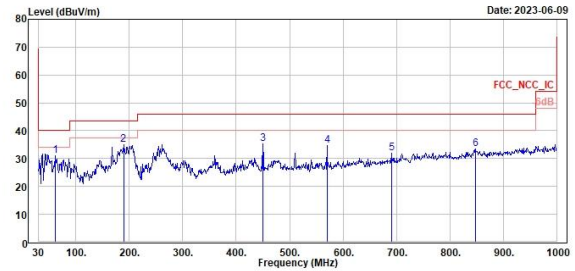
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	185.66	30.60	40.68	-10.08	43.50	-12.90		300	263	Peak	Horizontal	
2	285.57	38.95	47.70	-8.75	43.50	-4.55		100	185	Peak	Horizontal	
3	365.62	35.54	39.01	-3.47	46.00	-10.46		100	24	Peak	Horizontal	
4	450.01	36.28	38.27	-1.99	46.00	-9.72		200	138	Peak	Horizontal	
5	630.43	31.08	30.05	1.03	46.00	-14.92		100	112	Peak	Horizontal	
6	757.50	32.82	29.52	3.30	46.00	-13.18		100	116	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	61.04	31.11	37.81	-6.70	40.00	-8.89		200	169	Peak	Vertical	
2	189.08	35.04	42.82	-7.78	43.50	-8.46		100	258	Peak	Vertical	
3	450.01	35.30	37.29	-1.99	46.00	-10.70		100	360	Peak	Vertical	
4	570.29	34.58	35.11	-0.53	46.00	-11.42		200	186	Peak	Vertical	
5	690.57	32.05	30.29	1.76	46.00	-13.95		200	155	Peak	Vertical	
6	847.71	33.60	29.51	4.09	46.00	-12.40		100	360	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

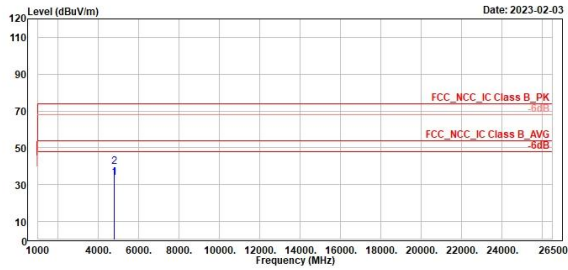
BLE_1M

Low Channel (Horizontal)

Low Channel (Vertical)



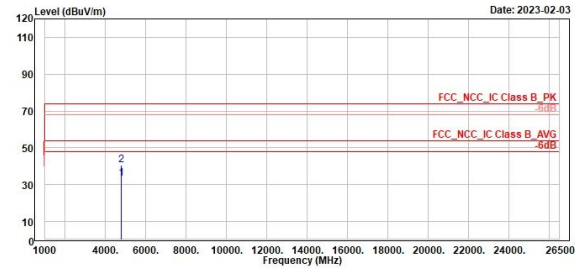
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	33.73	42.25	-8.52	54.00	-20.27	267	360	Average	Horizontal	
2	4804.00	39.85	48.37	-8.52	74.00	-34.15	267	360	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	33.38	41.90	-8.52	54.00	-20.62	400	165	Average	Vertical	
2	4804.00	40.49	49.01	-8.52	74.00	-33.51	400	165	Peak	Vertical	

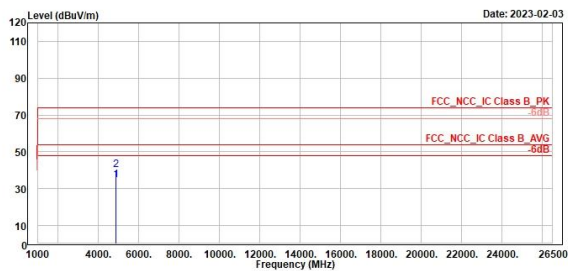
BLE_1M

Middle Channel (Horizontal)

Middle Channel (Vertical)



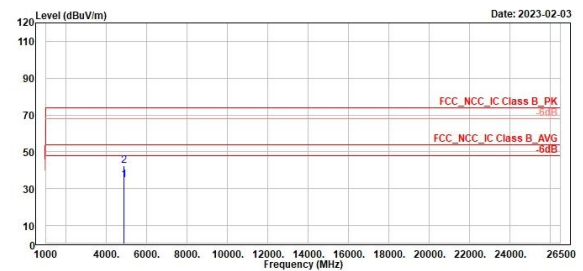
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	4880.00	34.50	43.06	-8.56	54.00	-19.50	400			7 Average	Horizontal	
2	4880.00	40.01	48.57	-8.56	74.00	-33.99	400			7 Peak	Horizontal	



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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	4880.00	34.73	43.29	-8.56	54.00	-19.27	300			27 Average	Vertical	
2	4880.00	42.54	51.10	-8.56	74.00	-31.46	300			27 Peak	Vertical	

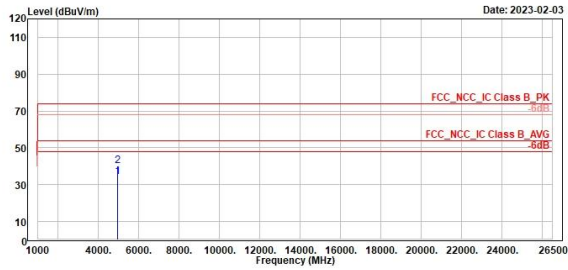
BLE_1M

High Channel (Horizontal)

High Channel (Vertical)



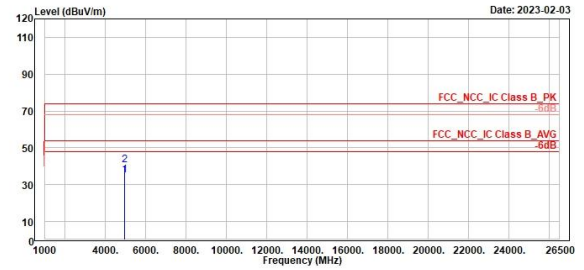
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	34.45	42.84	-8.39	54.00	-19.55	300	314	Average	Horizontal		
2	4960.00	39.94	48.33	-8.39	74.00	-34.06	300	314	Peak	Horizontal		



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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	35.34	43.73	-8.39	54.00	-18.66	328	285	Average	Vertical		
2	4960.00	40.70	49.09	-8.39	74.00	-33.30	328	285	Peak	Vertical		

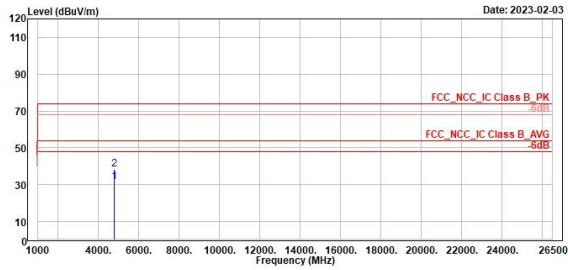
BLE_2M

Low Channel (Horizontal)

Low Channel (Vertical)



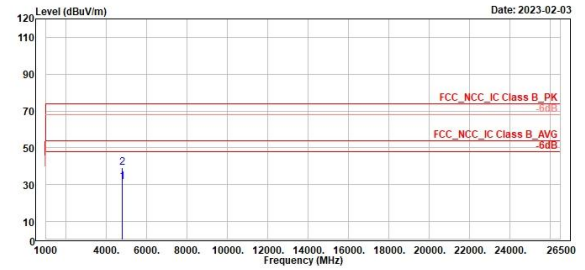
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	31.67	40.19	-8.52	54.00	-22.33	352	360	Average	Horizontal	
2	4804.00	38.22	46.74	-8.52	74.00	-35.78	352	360	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	31.43	39.95	-8.52	54.00	-22.57	300	152	Average	Vertical	
2	4804.00	39.15	47.67	-8.52	74.00	-34.85	300	152	Peak	Vertical	

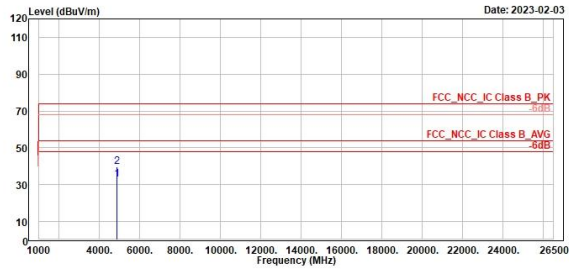
BLE_2M

Middle Channel (Horizontal)

Middle Channel (Vertical)



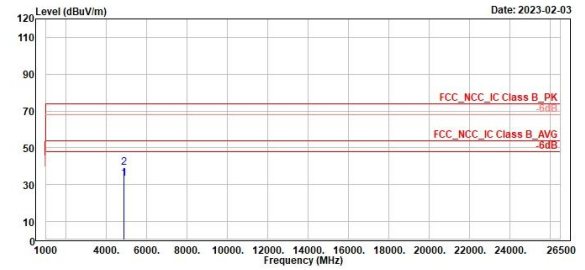
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4880.00	32.93	41.49	-8.56	54.00	-21.07	377	360	Average	Horizontal		
2	4880.00	39.57	48.13	-8.56	74.00	-34.43	377	360	Peak	Horizontal		



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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	4880.00	33.13	41.69	-8.56	54.00	-20.87	400	339	Average	Vertical		
2	4880.00	39.39	47.95	-8.56	74.00	-34.61	400	339	Peak	Vertical		

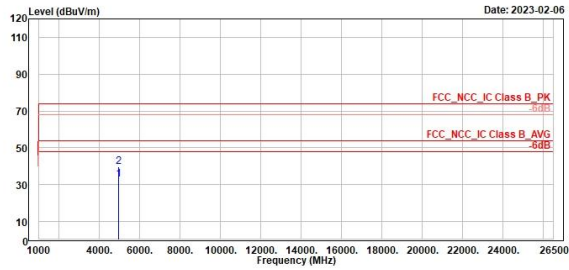
BLE_2M

High Channel (Horizontal)

High Channel (Vertical)



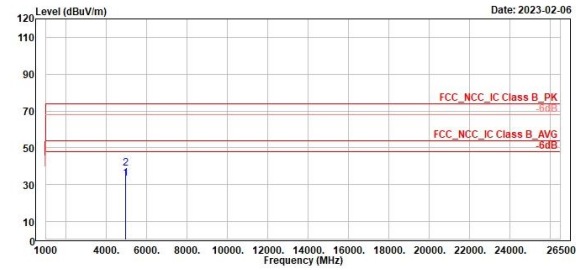
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	32.66	41.05	-8.39	54.00	-21.34	323	360	Average	Horizontal		
2	4960.00	39.48	47.87	-8.39	74.00	-34.52	323	360	Peak	Horizontal		



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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	33.30	41.69	-8.39	54.00	-20.70	300	288	Average	Vertical		
2	4960.00	38.96	47.35	-8.39	74.00	-35.04	300	288	Peak	Vertical		

Mains Conducted Emission, 150kHz ~ 30MHz

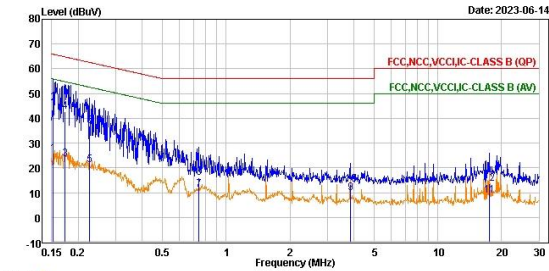
Worst Band

(Line)

(Neutral)



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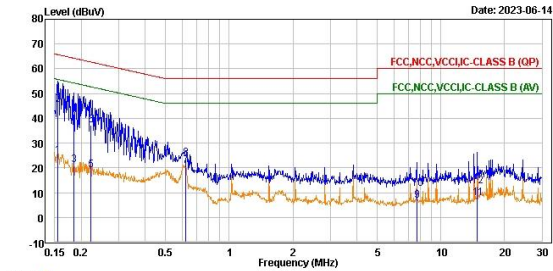


Trace: 1

	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB		dBuV	dB			
1	0.15	25.73	16.11	9.62	55.88	-30.15	Average	line1		
2	0.15	46.06	36.44	9.62	65.88	-19.82	QP	line1		
3	0.17	23.53	13.91	9.62	54.84	-31.31	Average	line1		
4	0.17	42.62	33.00	9.62	64.84	-22.22	QP	line1		
5	0.23	21.07	11.45	9.62	52.61	-31.54	Average	line1		
6	0.23	36.94	27.32	9.62	62.61	-25.67	QP	line1		
7	0.74	11.38	1.75	9.63	46.00	-34.62	Average	line1		
8	0.74	15.93	6.30	9.63	56.00	-40.07	QP	line1		
9	3.85	9.97	0.29	9.68	46.00	-36.03	Average	line1		
10	3.85	13.35	3.67	9.68	56.00	-42.65	QP	line1		
11	17.43	8.80	-0.97	9.77	50.00	-41.20	Average	line1		
12	17.43	13.64	3.87	9.77	60.00	-46.36	QP	line1		



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Trace: 1

	Freq	Level	Read	Level	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB		dBuV	dB			
1	0.15	24.91	15.29	9.62	55.75	-30.84	Average	neutral		
2	0.15	45.53	35.91	9.62	65.75	-20.22	QP	neutral		
3	0.18	21.04	11.42	9.62	54.26	-33.22	Average	neutral		
4	0.18	41.62	32.00	9.62	64.26	-22.64	QP	neutral		
5	0.22	19.05	9.43	9.62	52.77	-33.72	Average	neutral		
6	0.22	37.26	27.64	9.62	62.77	-25.51	QP	neutral		
7	0.62	20.80	11.17	9.63	46.00	-25.20	Average	neutral		
8	0.62	23.76	14.13	9.63	56.00	-32.24	QP	neutral		
9	7.69	6.82	-2.94	9.76	50.00	-43.18	Average	neutral		
10	7.69	11.50	1.74	9.76	60.00	-48.50	QP	neutral		
11	14.86	7.74	-2.09	9.83	50.00	-42.26	Average	neutral		
12	14.86	12.52	2.69	9.83	60.00	-47.48	QP	neutral		