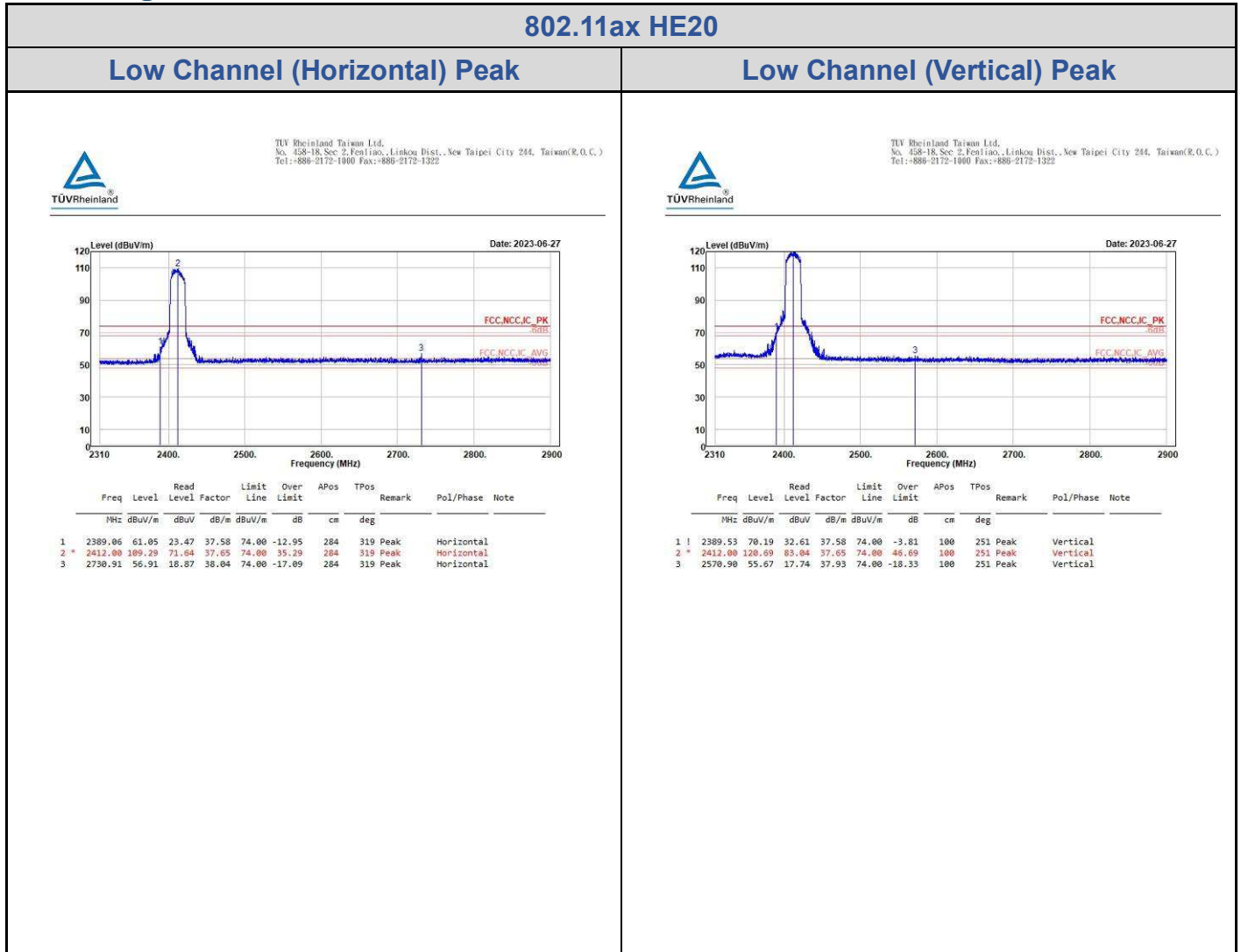


# Appendix D: Test Results of Radiated Spurious Emissions Test

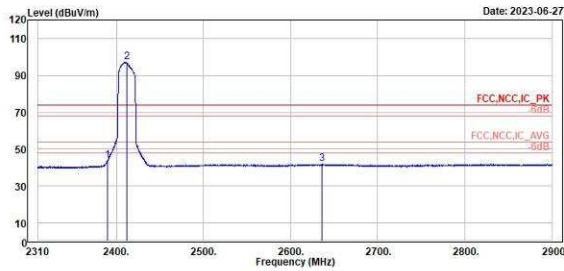
## <Beamforming>

### Band Edges, 2.31GHz ~ 2.9GHz



**802.11ax HE20**
**Low Channel (Horizontal) Average**
**Low Channel (Vertical) Average**

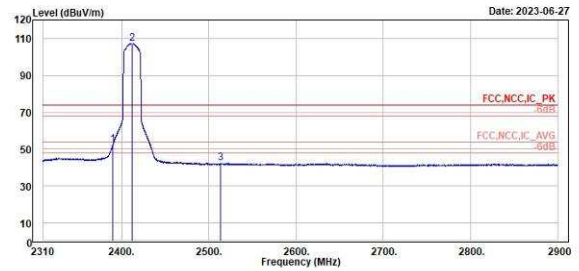

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1	2	3	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2399.00	43.83	6.25	37.58	54.00	-10.17	284	319	Average	Horizontal		
2412.00	87.15	59.59	37.65	54.00	43.15	284	319	average	Horizontal		
2635.68	41.87	3.86	38.01	54.00	-12.13	284	319	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				
2399.89	52.31	14.73	37.58	54.00	-1.69	100	251	Average	Vertical		
2412.00	107.33	69.68	37.65	54.00	53.33	100	251	Average	Vertical		
2513.31	42.52	4.65	37.87	54.00	-11.48	100	251	Average	Vertical		

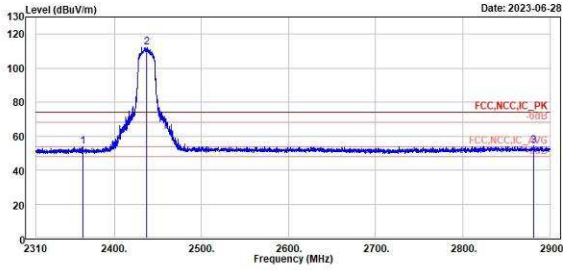
802.11ax HE20

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



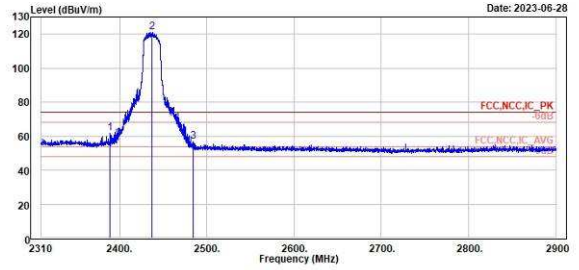
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2363.45	53.79	16.63	37.67	74.00	-38.36	162	342 Peak	Horizontal
2 *	2437.00	112.37	75.01	37.86	74.00	38.37	162	342 Peak	Horizontal
3	2881.36	54.16	16.28	37.66	74.00	-19.84	162	342 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	2388.94	61.86	24.76	37.10	74.00	-12.14	121	251 Peak	Vertical
2 *	2437.00	121.34	83.98	37.36	74.00	47.34	121	251 Peak	Vertical
3	2484.64	56.67	19.18	37.49	74.00	-17.33	121	251 Peak	Vertical

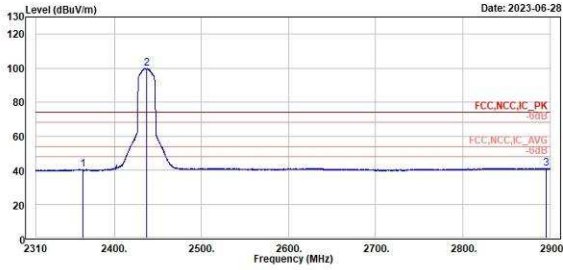
802.11ax HE20

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



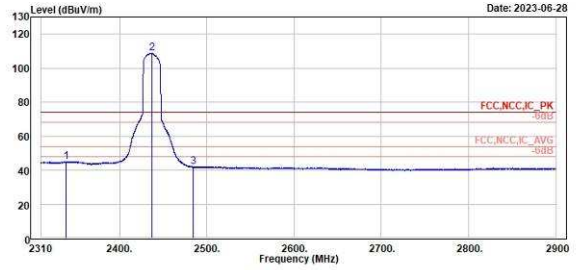
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1	2	3	4	5	6	7	8	9	10	11	12
Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2364.04	40.35	3.28	37.07	54.00	-13.65	162	342	Average	Horizontal		
2437.00	100.03	62.67	37.36	54.00	46.03	162	340	average	Horizontal		
2895.63	41.24	3.30	37.94	54.00	-12.76	162	342	Average	Horizontal		



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1	2	3	4	5	6	7	8	9	10	11	12
Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
2330.56	45.11	8.13	36.98	54.00	-8.89	121	251	Average	Vertical		
2437.00	100.03	71.37	37.36	54.00	54.03	121	251	Average	Vertical		
2484.40	42.21	4.72	37.49	54.00	-11.79	121	251	Average	Vertical		

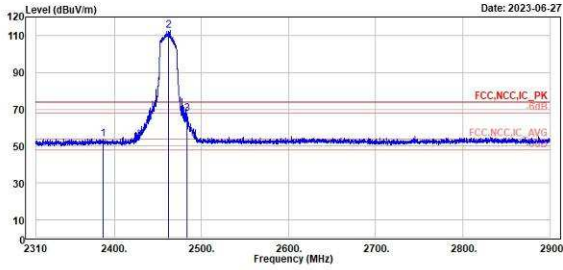
802.11ax HE20

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



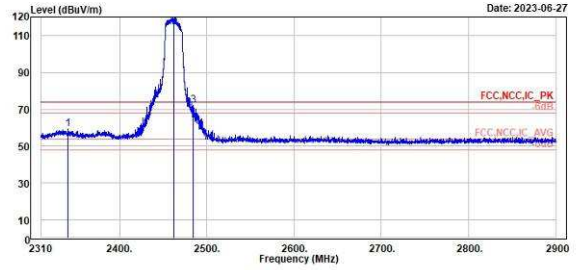
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	2386.58	54.03	16.45	37.57	74.00	-19.97	176	341	Peak	Horizontal	
2 *	2462.00	112.55	74.82	37.73	74.00	38.55	176	341	Peak	Horizontal	
3	2483.81	67.45	29.65	37.80	74.00	-6.55	176	341	Peak	Horizontal	



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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	2341.03	59.54	22.20	37.34	74.00	-14.46	138	253	Peak	Vertical	
2 *	2462.00	119.76	82.03	37.73	74.00	45.76	138	253	Peak	Vertical	
3 !	2484.64	71.92	34.12	37.80	74.00	-2.08	138	253	Peak	Vertical	

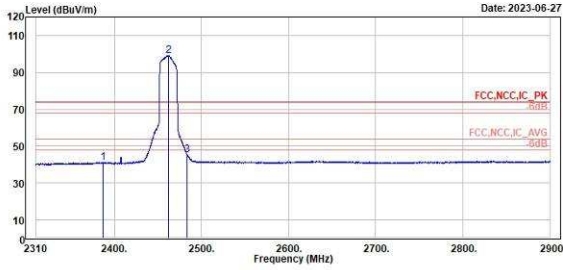
802.11ax HE20

High Channel (Horizontal) Average

High Channel (Vertical) Average



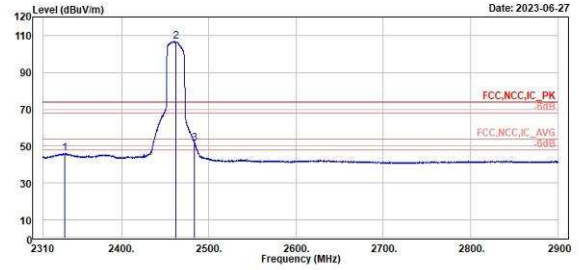
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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	2386.58	41.11	3.54	37.57	54.00	-12.89	176	341	Average	Horizontal																																																																																									
2 *	2462.00	69.12	61.39	37.73	54.00	45.12	176	341	Average	Horizontal																																																																																									
3	2483.81	45.31	7.51	37.80	54.00	-8.69	176	341	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	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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	2334.00	45.95	8.62	37.33	54.00	-8.05	138	253	Average	Vertical																																																																																									
2 *	2462.00	106.09	69.16	37.73	54.00	52.09	138	253	Average	Vertical																																																																																									
3 !	2483.46	51.62	13.82	37.80	54.00	-2.38	138	253	Average	Vertical																																																																																									

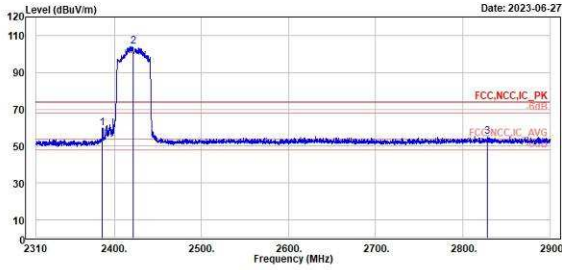
802.11ax HE40

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



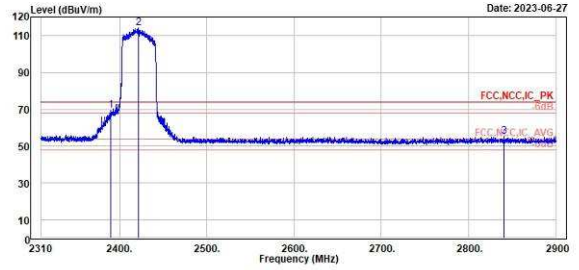
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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2386.23	59.61	22.85	37.56	74.00	-14.39	194	335 Peak	Horizontal	
2 *	2422.00	104.22	66.56	37.66	74.00	30.22	194	335 Peak	Horizontal	
3	2827.55	55.10	16.92	38.18	74.00	-18.90	194	335 Peak	Horizontal	



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Freq	Level	Read	Level	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2389.53	69.47	31.89	37.58	74.00	-4.53	100	235 Peak	Vertical	
2 *	2422.00	114.20	75.54	37.66	74.00	40.20	100	235 Peak	Vertical	
3	2840.06	55.18	17.01	38.17	74.00	-18.82	100	235 Peak	Vertical	

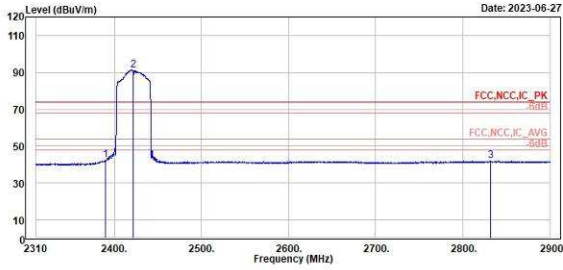
802.11ax HE40

Low Channel (Horizontal) Average

Low Channel (Vertical) Average



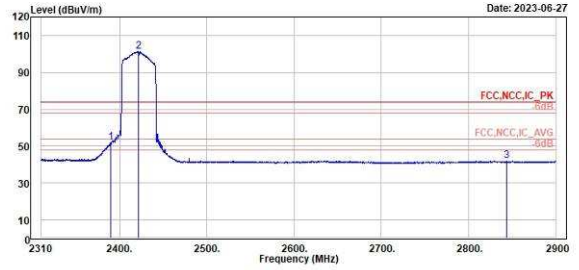
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2398.00	42.55	4.97	37.58	54.00	-11.45	194	335 Average	Horizontal	
2 *	2422.00	91.33	53.67	37.66	54.00	37.33	194	335 Average	Horizontal	
3	2831.91	41.91	3.73	38.18	54.00	-12.09	194	335 Average	Horizontal	



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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	2398.00	51.93	14.35	37.58	54.00	-2.07	100	235 Average	Vertical	
2 *	2422.00	101.44	63.78	37.66	54.00	47.44	100	235 Average	Vertical	
3	2843.36	41.93	3.76	38.17	54.00	-12.07	100	235 Average	Vertical	



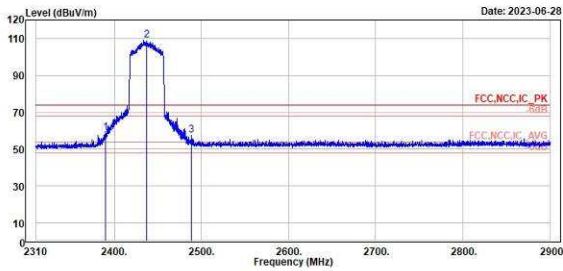
802.11ax HE40

Middle Channel (Horizontal) Peak

Middle Channel (Vertical) Peak



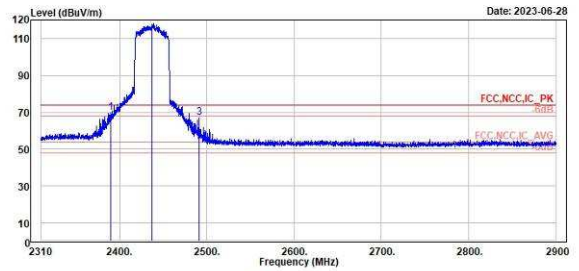
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.41	58.73	21.15	37.58	74.00	-15.27	160	344 Peak	Horizontal
2 *	2437.00	108.94	71.16	37.68	74.00	34.64	160	344 Peak	Horizontal
3	2488.42	57.59	19.77	37.82	74.00	-16.41	160	344 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	2389.53	69.82	32.24	37.58	74.00	-4.18	100	253 Peak	Vertical
2 *	2437.00	118.13	80.45	37.68	74.00	44.13	100	253 Peak	Vertical
3	2491.48	66.92	29.10	37.82	74.00	-7.08	100	253 Peak	Vertical

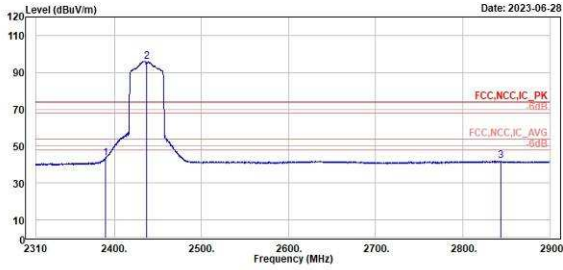
802.11ax HE40

Middle Channel (Horizontal) Average

Middle Channel (Vertical) Average



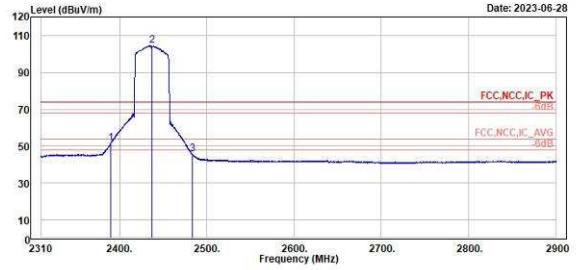
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.89	43.26	5.68	37.58	54.00	-18.74	160	344 Average	Horizontal
2 *	2437.00	96.02	50.34	37.68	54.00	42.02	160	344 Average	Horizontal
3	2843.24	42.18	4.01	38.17	54.00	-11.82	160	344 Average	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	2390.00	51.55	13.97	37.58	54.00	-2.45	100	253 Average	Vertical
2 *	2437.00	104.54	66.86	37.68	54.00	50.54	100	253 Average	Vertical
3	2483.58	45.69	7.80	37.80	54.00	-8.40	100	253 Average	Vertical

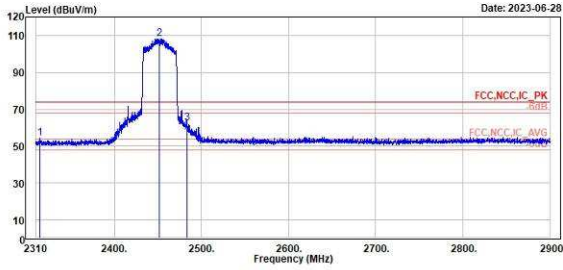
802.11ax HE40

High Channel (Horizontal) Peak

High Channel (Vertical) Peak



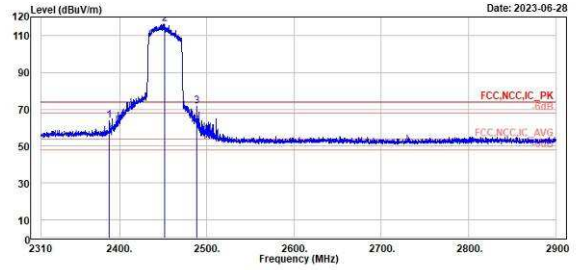
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2315.07	54.21	16.95	37.26	74.00	-19.79	154	342 Peak	Horizontal
2 *	2452.00	108.25	70.56	37.69	74.00	34.25	154	342 Peak	Horizontal
3	2483.70	62.46	24.66	37.80	74.00	-11.54	154	342 Peak	Horizontal



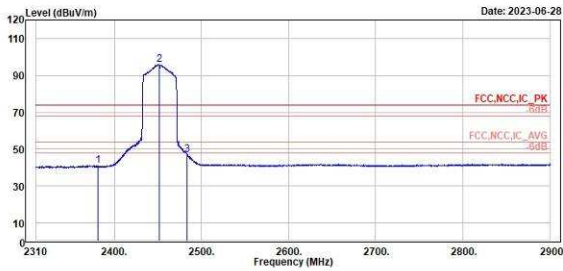
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Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.00	63.70	26.21	37.57	74.00	-10.22	100	73 Peak	Vertical
2 *	2452.00	116.14	78.45	37.69	74.00	42.14	100	73 Peak	Vertical
3 !	2488.65	71.47	33.65	37.82	74.00	-2.53	100	73 Peak	Vertical

**802.11ax HE40**
**High Channel (Horizontal) Average**
**High Channel (Vertical) Average**

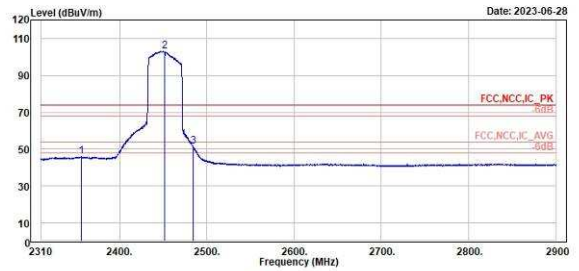

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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2381.15	49.94	3.41	37.53	54.00	-13.06	154	342	Average Horizontal
2 *	2452.00	95.97	58.28	37.69	54.00	41.97	154	342	average Horizontal
3	2483.46	47.22	9.42	37.80	54.00	-6.78	154	342	Average 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	2356.49	45.98	8.57	37.41	54.00	-8.02	100	73	Average Vertical
2 *	2452.00	103.03	65.34	37.69	54.00	49.03	100	73	Average Vertical
3 !	2484.05	51.76	13.96	37.80	54.00	-2.24	100	73	Average Vertical

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

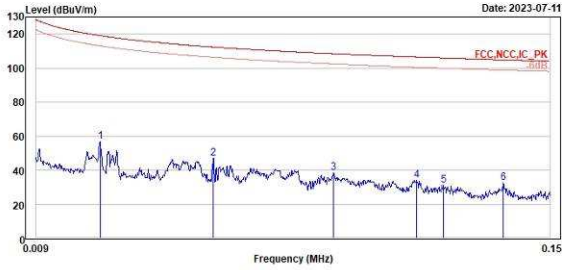
802.11ax HE20

Middle Channel 9kHz~150kHz(Open)

Middle Channel 150kHz~30MHz(Open)



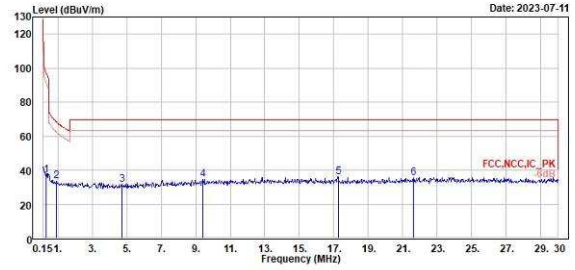
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.03	56.63	37.57	18.96	119.08	-62.45	100	278	Peak	Open	
2	0.06	47.18	28.24	18.94	112.38	-65.20	100	95	Peak	Open	
3	0.09	38.74	20.60	18.14	106.45	-69.71	100	162	Peak	Open	
4	0.11	34.01	16.03	17.98	106.51	-72.50	100	162	Peak	Open	
5	0.12	30.97	12.96	18.01	105.97	-75.00	100	205	Peak	Open	
6	0.14	32.54	14.46	18.08	104.85	-72.31	100	182	Peak	Open	



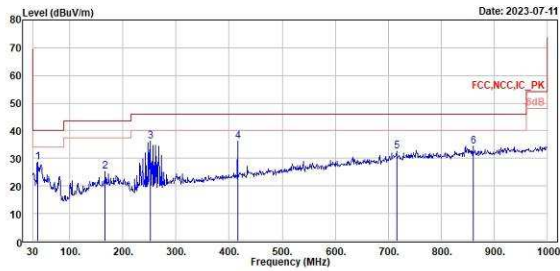
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Peak	Freq (MHz)	Level (dBuV/m)	Read Level (dBuV)	Level Factor (dB/m)	Limit Line (dBuV/m)	Over Limit (dB)	APos (cm)	TPos (deg)	Remark	Pol/Phase	Note
1	0.33	37.32	18.57	18.75	97.26	-59.94	100	222	Peak	Open	
2	0.93	33.44	14.40	19.04	88.27	-54.83	100	258	Peak	Open	
3	4.72	31.62	12.11	19.51	69.50	-37.88	100	360	Peak	Open	
4	9.43	34.61	13.29	21.32	69.50	-34.89	100	294	Peak	Open	
5	17.25	36.05	13.99	22.06	69.50	-33.45	100	95	Peak	Open	
6	21.61	35.76	13.51	22.25	69.50	-33.74	100	207	Peak	Open	

**Spurious Emissions, Tx Mode, 30MHz ~ 1GHz**
**802.11ax HE20**
**Middle Channel (Horizontal)**
**Middle Channel (Vertical)**

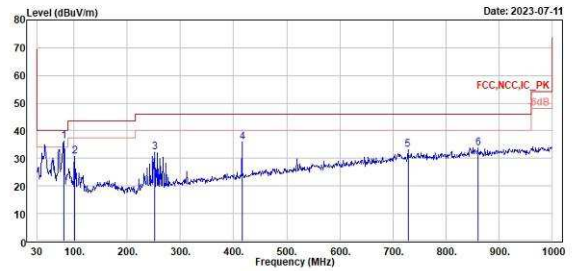

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1	Freq	Level	Read		Limit	Over	APos	TPos	Remark	Pol/Phase	Note
			Level	Factor							
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	39.78	28.52	36.63	-8.01	48.00	-11.38	300	183	Peak	Horizontal	
2	166.77	25.39	32.32	-6.93	43.50	-18.11	200	258	Peak	Horizontal	
3	252.13	36.08	44.05	-7.97	46.00	-9.92	100	115	Peak	Horizontal	
4	416.06	36.32	40.42	-4.10	46.00	-9.68	200	85	Peak	Horizontal	
5	715.79	32.63	31.04	1.59	46.00	-13.37	100	0	Peak	Horizontal	
6	868.32	34.30	30.61	3.69	46.00	-11.70	100	353	Peak	Horizontal	



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1	Freq	Level	Read		Limit	Over	APos	TPos	Remark	Pol/Phase	Note
			Level	Factor							
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	88.44	36.22	48.45	-12.23	48.00	-3.78	100	108	Peak	Vertical	
2	108.81	38.87	42.81	-11.94	43.50	-12.63	100	359	Peak	Vertical	
3	252.13	32.33	40.30	-7.97	46.00	-13.67	100	104	Peak	Vertical	
4	416.06	35.98	40.08	-4.10	46.00	-10.02	100	143	Peak	Vertical	
5	728.40	33.13	31.49	1.64	46.00	-12.87	100	269	Peak	Vertical	
6	868.32	33.75	30.06	3.69	46.00	-12.25	200	139	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

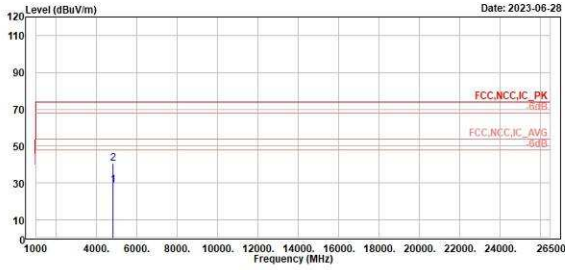
802.11ax HE20

Low Channel (Horizontal)

Low Channel (Vertical)



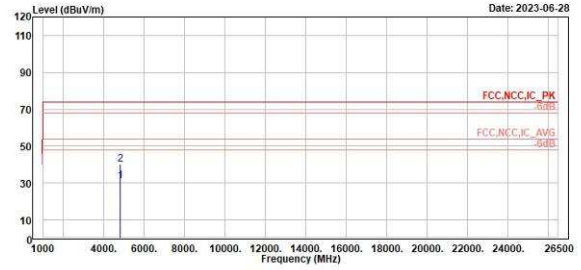
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4824.00	28.87	39.21	-10.34	54.00	-25.13	200	80 Average	Horizontal	
2	4824.00	48.41	50.75	-10.34	74.00	-33.59	200	80 Peak	Horizontal	



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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	4824.00	30.97	41.31	-10.34	54.00	-23.03	300	267 Average	Vertical	
2	4824.00	48.04	50.38	-10.34	74.00	-33.96	300	267 Peak	Vertical	

802.11ax HE20

Middle Channel (Horizontal)

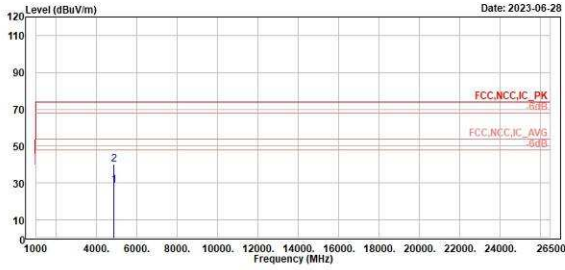
Middle Channel (Vertical)



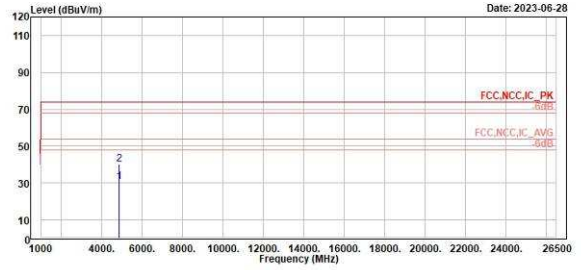
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4874.00	28.87	39.20	-10.33	54.00	-25.13	100	135 Average	Horizontal	
2	4874.00	48.22	50.55	-10.33	74.00	-33.78	100	135 Peak	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	4874.00	30.50	40.83	-10.33	54.00	-23.50	137	360 Average	Vertical	
2	4874.00	46.04	50.37	-10.33	74.00	-33.96	137	360 Peak	Vertical	



802.11ax HE20

High Channel (Horizontal)

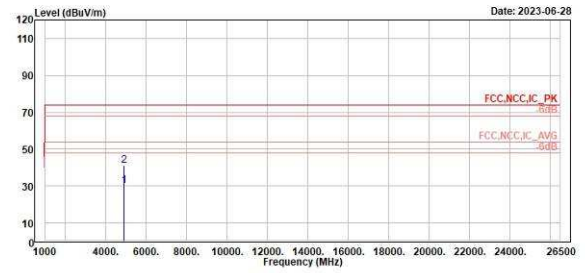
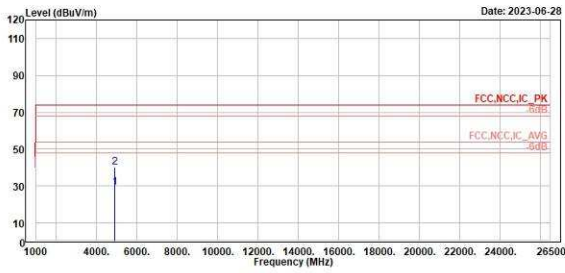
High Channel (Vertical)



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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	4924.00	29.16	39.47	-10.31	54.00	-24.84	306	360 Average	Horizontal	
2	4924.00	48.26	58.57	-10.31	74.00	-33.74	306	360 Peak	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	4924.00	29.99	40.30	-10.31	54.00	-24.01	100	353 Average	Vertical	
2	4924.00	41.17	51.48	-10.31	74.00	-32.83	100	353 Peak	Vertical	

802.11ax HE40

Low Channel (Horizontal)

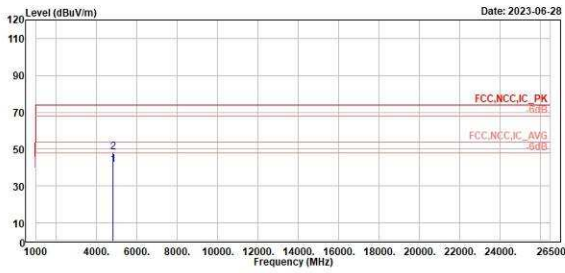
Low Channel (Vertical)



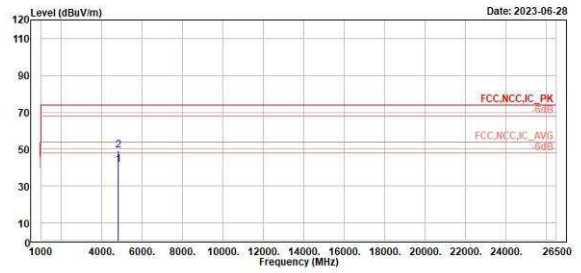
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Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4844.00	41.31	51.58	-10.27	54.00	-12.69	332	210 Average	Horizontal	
2	4844.00	48.35	58.82	-10.27	74.00	-25.45	332	210 Peak	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	4844.00	41.71	51.98	-10.27	54.00	-12.29	100	117 Average	Vertical	
2	4844.00	49.47	59.74	-10.27	74.00	-24.53	100	117 Peak	Vertical	

802.11ax HE40

Middle Channel (Horizontal)

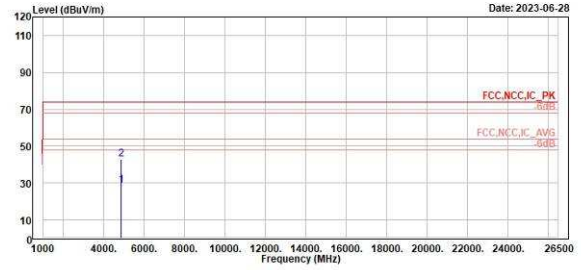
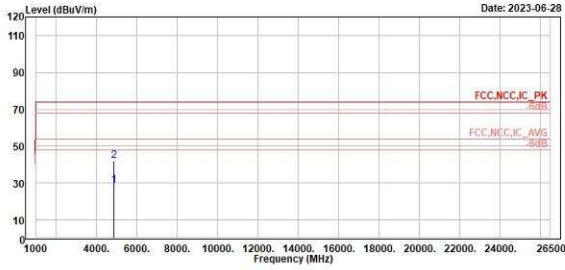
Middle Channel (Vertical)



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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	4874.00	28.76	39.09	-10.33	54.00	-25.24	400	275 Average	Horizontal	
2	4874.00	42.82	52.35	-10.33	74.00	-31.98	400	275 Peak	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	4874.00	28.91	39.24	-10.33	54.00	-25.09	200	131 Average	Vertical	
2	4874.00	42.74	53.07	-10.33	74.00	-31.26	200	131 Peak	Vertical	

802.11ax HE40

High Channel (Horizontal)

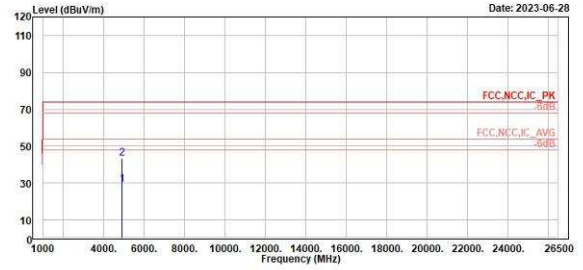
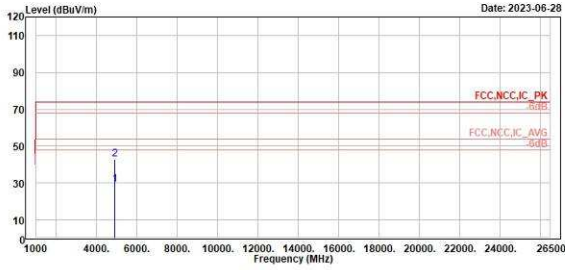
High Channel (Vertical)



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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4904.00	29.19	39.56	-10.37	54.00	-24.81	300	27 Average	Horizontal
2	4904.00	42.87	53.24	-10.37	74.00	-31.13	300	27 Peak	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4904.00	29.42	39.79	-10.37	54.00	-24.58	200	203 Average	Vertical
2	4904.00	43.36	53.75	-10.37	74.00	-30.62	200	203 Peak	Vertical