

Appendix A: Test Results of Radiated Emissions

<Adapter Mode>

Band Edges, 2.31GHz ~ 2.9GHz & 4.5GHz ~ 5.15GHz

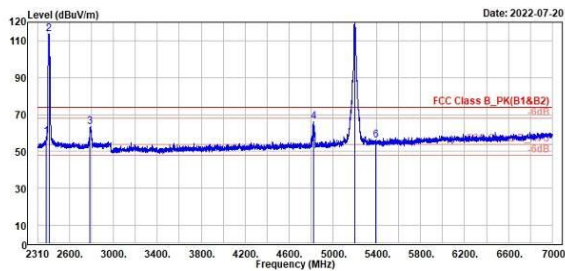
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



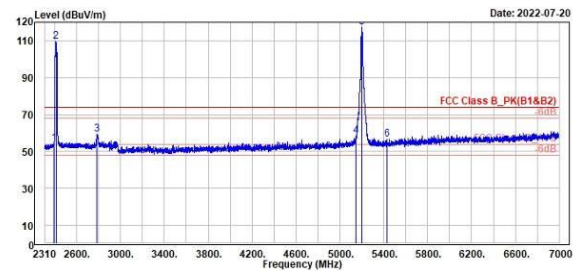
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2385.87	57.80	20.24	37.56	74.00	-16.20	130	318 Peak	Horizontal	
2 *	2412.00	113.44	75.79	37.65	74.00	39.44	130	318 Peak	Horizontal	
3	2787.55	63.21	25.02	38.19	74.00	-10.79	130	318 Peak	Horizontal	
4	4820.44	66.09	24.04	42.05	74.00	-7.91	111	53 Peak	Horizontal	
5 *	5200.00	121.54	78.50	43.04	74.00	47.54	111	53 Peak	Horizontal	
6	5389.52	56.22	13.06	43.16	74.00	-17.78	111	53 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	2389.65	54.39	16.81	37.58	74.00	-19.61	389	360 Peak	Vertical	
2 *	2412.00	109.49	71.84	37.65	74.00	35.49	389	360 Peak	Vertical	
3	2786.48	59.12	20.93	38.19	74.00	-14.88	389	360 Peak	Vertical	
4	5149.26	58.51	15.61	42.90	74.00	-15.49	111	8 Peak	Vertical	
5 *	5200.00	117.33	74.29	43.04	74.00	43.33	111	8 Peak	Vertical	
6	5430.52	56.67	13.43	43.24	74.00	-17.33	111	8 Peak	Vertical	

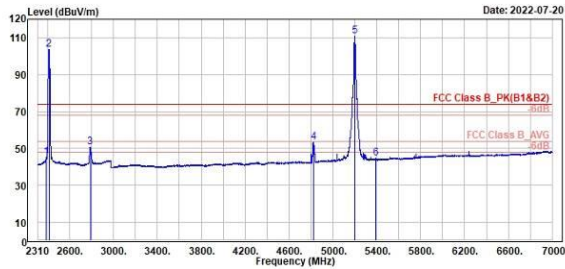
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Average

(Vertical) Average



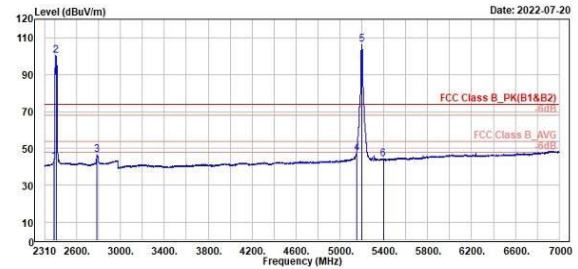
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.99	45.34	7.78	37.56	54.00	-8.66	130	318	Average	Horizontal		
2 *	2412.00	103.73	66.08	37.65	54.00	49.73	130	318	Average	Horizontal		
3 !	2787.66	50.62	12.43	38.19	54.00	-3.38	130	318	Average	Horizontal		
4 !	4825.36	53.40	11.33	42.07	54.00	-0.60	111	53	Average	Horizontal		
5 *	5200.00	111.04	68.00	43.04	54.00	57.04	111	53	Average	Horizontal		
6	5391.98	44.67	1.50	43.17	54.00	-9.33	111	53	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.77	42.72	5.14	37.58	54.00	-11.28	389	360	Average	Vertical		
2 *	2412.00	100.37	62.72	37.65	54.00	46.37	389	360	Average	Vertical		
3	2786.37	46.37	8.18	38.19	54.00	-7.63	389	360	Average	Vertical		
4	5150.08	47.27	4.37	42.90	54.00	-6.73	111	8	Average	Vertical		
5 *	5200.00	106.47	63.43	43.04	54.00	52.47	111	8	Average	Vertical		
6	5395.26	44.25	1.06	43.19	54.00	-9.75	111	8	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

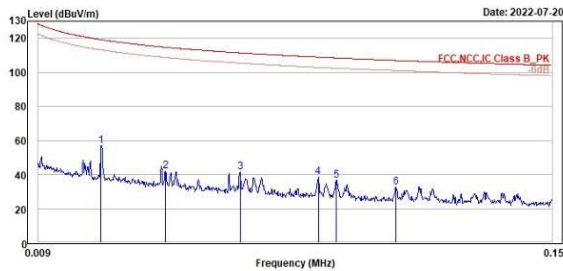
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



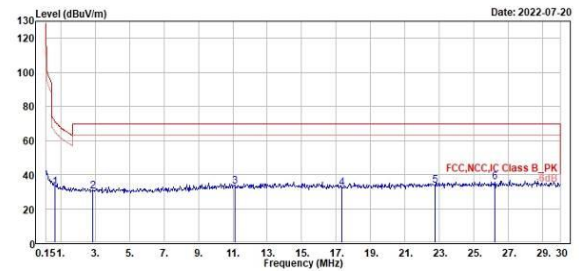
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	56.90	37.72	19.18	119.18	-62.28	100	357 QP	Open
2	0.04	41.94	22.57	19.37	114.73	-72.79	100	292 QP	Open
3	0.06	41.45	22.46	18.99	111.41	-69.96	100	258 QP	Open
4	0.09	38.72	20.20	18.52	108.92	-70.20	100	258 QP	Open
5	0.09	36.61	18.20	18.41	108.44	-71.83	100	276 QP	Open
6	0.11	32.81	14.57	18.24	107.00	-74.19	100	318 QP	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	0.66	32.63	13.59	19.04	71.25	-38.62	100	157 QP	Open
2	2.87	29.94	10.43	19.51	69.50	-39.56	100	300 QP	Open
3	11.10	33.31	11.73	21.58	69.50	-36.19	100	69 QP	Open
4	17.31	32.19	10.18	22.01	69.50	-37.31	100	71 QP	Open
5	22.75	33.57	11.25	22.32	69.50	-35.93	100	10 QP	Open
6	26.21	35.74	13.26	22.48	69.50	-33.76	100	54 QP	Open

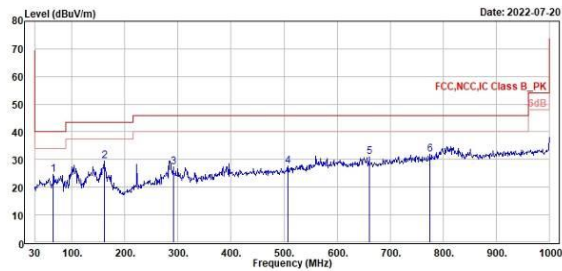
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

Horizontal



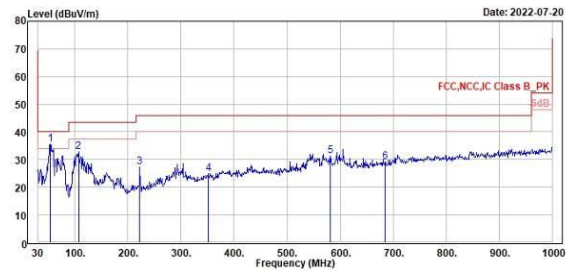
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	64.92	24.56	32.47	-7.91	48.00	-15.44	100	62 QP	Horizontal	
2	169.95	29.54	35.49	-5.95	43.50	-13.96	200	242 QP	Horizontal	
3	298.93	27.44	32.47	-5.03	46.00	-18.56	100	62 QP	Horizontal	
4	507.24	27.80	29.47	-1.67	46.00	-18.20	200	346 QP	Horizontal	
5	669.59	30.89	29.95	0.94	46.00	-15.11	100	356 QP	Horizontal	
6	774.96	31.99	28.98	3.01	46.00	-14.01	100	325 QP	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	53.28	35.62	42.00	-6.38	48.00	-4.38	100	39 QP	Vertical	
2	106.63	32.82	42.06	-10.04	43.50	-10.68	100	56 QP	Vertical	
3	222.06	27.33	35.22	-7.89	46.00	-18.67	100	43 QP	Vertical	
4	352.04	24.82	28.68	-3.86	46.00	-21.18	198	360 QP	Vertical	
5	589.96	31.37	31.74	-0.37	46.00	-14.63	100	2 QP	Vertical	
6	684.75	29.18	27.81	1.37	46.00	-16.82	100	160 QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

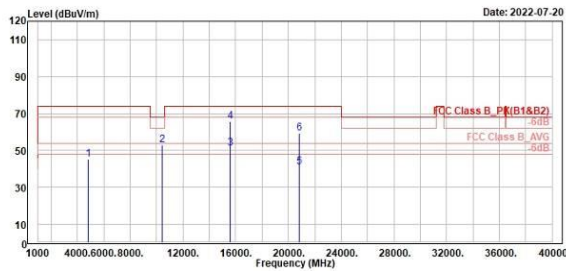
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



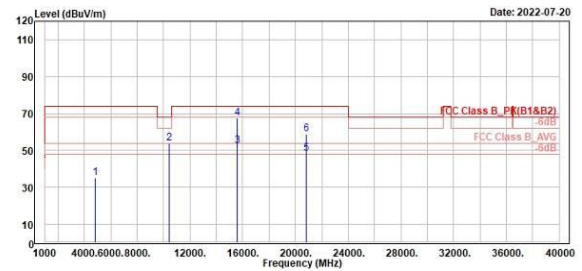
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	45.15	54.96	-9.81	74.00	-28.85	100	334 Peak	Horizontal
2	10400.00	52.99	56.41	-3.42	68.20	-15.21	200	318 Peak	Horizontal
3	15600.00	51.12	47.50	3.62	54.00	-2.88	100	36 Average	Horizontal
4	15600.00	65.82	62.20	3.62	74.00	-8.18	100	36 Peak	Horizontal
5	20800.00	41.25	41.25	0.00	54.00	-12.75	200	343 Average	Horizontal
6	20800.00	59.37	59.37	0.00	74.00	-14.63	200	343 Peak	Horizontal



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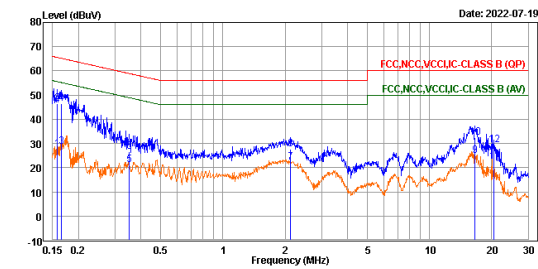
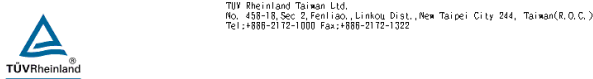
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	35.15	44.96	-9.81	74.00	-38.85	296	360 Peak	Vertical
2	10400.00	53.81	57.23	-3.42	68.20	-14.39	125	360 Peak	Vertical
3	15600.00	52.44	48.82	3.62	54.00	-1.56	217	360 Average	Vertical
4	15600.00	67.57	63.95	3.62	74.00	-6.43	217	360 Peak	Vertical
5	20800.00	48.23	48.23	0.00	54.00	-5.77	266	5 Average	Vertical
6	20800.00	58.89	58.89	0.00	74.00	-15.11	266	5 Peak	Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

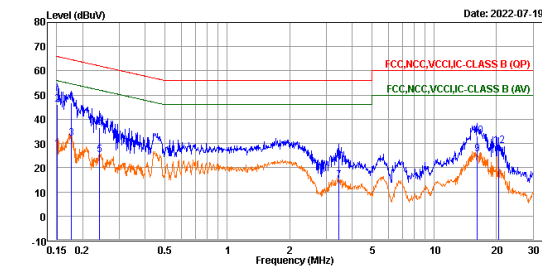
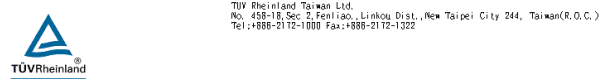
(Line)

(Neutral)



Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.16	27.80	18.19	9.61	55.54	-27.74	Average	line1	
2	0.16	46.30	36.69	9.61	65.54	-19.24	QP	line1	
3	0.17	28.75	19.14	9.61	55.17	-26.42	Average	line1	
4	0.17	46.56	36.95	9.61	65.17	-18.61	QP	line1	
5	0.35	21.30	11.68	9.62	48.92	-27.62	Average	line1	
6	0.35	26.73	17.11	9.62	58.92	-32.19	QP	line1	
7	2.13	22.24	12.59	9.65	46.00	-23.76	Average	line1	
8	2.13	27.53	17.88	9.65	56.00	-28.47	QP	line1	
9	16.58	24.92	15.20	9.72	50.00	-25.08	Average	line1	
10	16.58	32.43	22.71	9.72	60.00	-27.57	QP	line1	
11	20.54	22.64	12.93	9.71	50.00	-27.36	Average	line1	
12	20.54	29.38	19.67	9.71	60.00	-30.62	QP	line1	



Trace: 1

	Freq	Level	Read	Factor	Limit	Over	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV	dB	dBuV	dB			
1	0.15	27.72	18.13	9.59	55.96	-28.24	Average	neutral	
2	0.15	46.13	36.54	9.59	65.96	-19.83	QP	neutral	
3	0.18	32.22	22.63	9.59	54.63	-22.41	Average	neutral	
4	0.18	46.74	37.15	9.59	64.63	-17.89	QP	neutral	
5	0.24	25.28	15.69	9.59	52.03	-26.75	Average	neutral	
6	0.24	36.51	26.92	9.59	62.03	-25.52	QP	neutral	
7	3.45	14.72	5.06	9.66	46.00	-31.28	Average	neutral	
8	3.45	22.71	13.05	9.66	56.00	-33.29	QP	neutral	
9	16.09	25.53	15.75	9.78	50.00	-24.47	Average	neutral	
10	16.09	33.06	23.28	9.78	60.00	-26.94	QP	neutral	
11	20.54	23.51	13.71	9.80	50.00	-26.49	Average	neutral	
12	20.54	29.17	19.37	9.80	60.00	-30.83	QP	neutral	

<POE Mode>

Band Edges, 2.31GHz ~ 2.9GHz & 4.5GHz ~ 5.15GHz

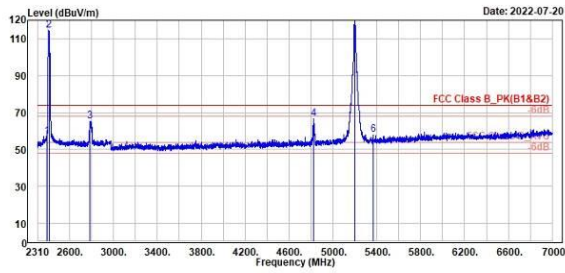
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



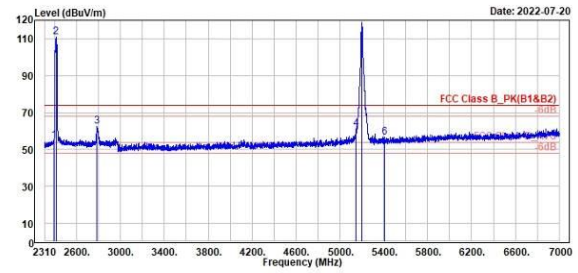
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.77	57.21	19.63	37.58	74.00	-16.79	124	328 Peak	Horizontal	
2 *	2412.00	114.35	76.78	37.65	74.00	40.35	124	328 Peak	Horizontal	
3	2787.43	65.35	27.16	38.19	74.00	-8.65	124	328 Peak	Horizontal	
4	4821.26	66.84	24.79	42.05	74.00	-7.16	100	300 Peak	Horizontal	
5 *	5200.00	121.92	78.88	43.04	74.00	47.92	100	300 Peak	Horizontal	
6	5368.20	58.01	14.96	43.05	74.00	-15.99	100	300 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	2389.77	54.79	17.21	37.58	74.00	-19.21	383	335 Peak	Vertical	
2 *	2412.00	111.08	73.43	37.65	74.00	37.00	383	335 Peak	Vertical	
3	2787.31	62.46	24.27	38.19	74.00	-11.54	383	335 Peak	Vertical	
4	5148.44	60.96	18.07	42.89	74.00	-13.04	324	18 Peak	Vertical	
5 *	5200.00	118.41	75.37	43.04	74.00	44.41	324	18 Peak	Vertical	
6	5406.74	56.70	13.48	43.22	74.00	-17.30	324	18 Peak	Vertical	

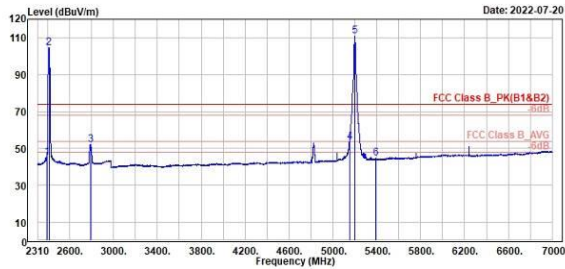
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(Horizontal) Average

(Vertical) Average



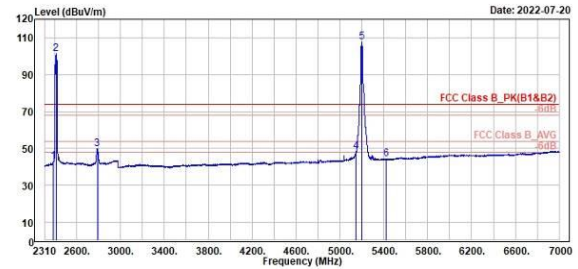
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.53	45.32	7.74	37.58	54.00	-8.68	124	320	Average	Horizontal		
2 *	2412.00	104.56	66.91	37.65	54.00	50.56	124	320	Average	Horizontal		
3 !	2788.96	51.92	13.73	38.19	54.00	-2.08	124	320	Average	Horizontal		
4 !	5158.08	53.35	10.45	42.90	54.00	-0.65	100	300	Average	Horizontal		
5 *	5200.00	111.03	67.99	43.04	54.00	57.03	100	300	Average	Horizontal		
6	5391.16	44.86	1.70	43.16	54.00	-9.14	100	300	Average	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.35	43.02	5.45	37.57	54.00	-10.98	383	335	Average	Vertical		
2 *	2412.00	101.13	63.48	37.65	54.00	47.13	383	335	Average	Vertical		
3 !	2787.66	49.56	11.37	38.19	54.00	-4.44	383	335	Average	Vertical		
4 !	5149.26	48.15	5.25	42.90	54.00	-5.85	324	18	Average	Vertical		
5 *	5200.00	107.07	64.03	43.04	54.00	53.03	324	18	Average	Vertical		
6	5421.50	44.48	1.25	43.23	54.00	-9.52	324	18	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

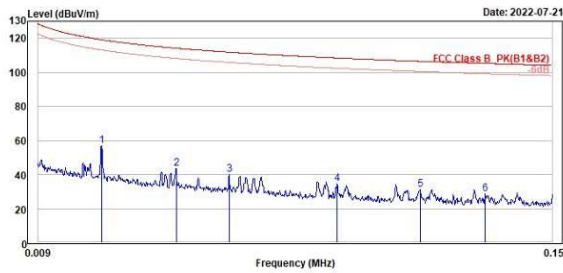
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

9kHz~150kHz (Open)

150kHz~30MHz (Open)



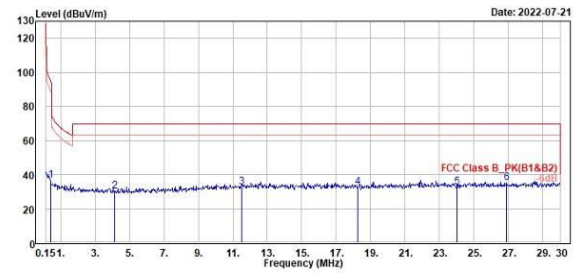
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.03	56.74	37.55	19.19	119.13	-62.39	100	216 QP	Open
2	0.05	43.61	24.27	19.34	114.16	-70.55	100	268 QP	Open
3	0.06	39.91	20.85	19.06	111.82	-71.91	100	276 QP	Open
4	0.09	34.66	16.25	18.41	108.41	-73.75	100	360 QP	Open
5	0.11	31.26	12.99	18.27	106.48	-75.22	100	296 QP	Open
6	0.13	28.69	10.36	18.33	105.21	-76.52	100	333 QP	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	0.42	36.77	17.82	18.95	95.17	-58.40	100	87 QP	Open
2	4.15	30.20	10.76	19.44	69.50	-39.30	100	9 QP	Open
3	11.49	32.57	10.97	21.60	69.50	-36.93	100	360 QP	Open
4	18.27	32.78	10.70	22.08	69.50	-36.72	100	62 QP	Open
5	24.00	32.66	10.28	22.38	69.50	-36.84	100	252 QP	Open
6	26.90	34.98	12.47	22.51	69.50	-34.52	100	198 QP	Open

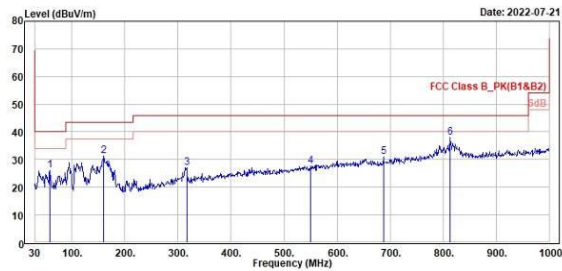
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

Horizontal



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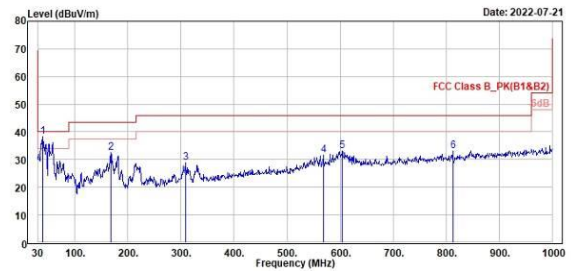


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	58.13	26.28	33.16	-6.88	48.00	-13.72	400	99 QP	Horizontal	
2	159.98	31.34	37.39	-5.96	43.50	-12.16	100	218 QP	Horizontal	
3	316.15	27.11	31.67	-4.56	46.00	-18.89	100	128 QP	Horizontal	
4	549.92	27.80	28.58	-0.78	46.00	-18.20	100	2 QP	Horizontal	
5	687.66	31.08	29.60	1.48	46.00	-14.92	100	220 QP	Horizontal	
6	812.79	37.94	34.79	3.15	46.00	-8.06	100	360 QP	Horizontal	

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	39.78	38.30	44.66	-6.36	48.00	-1.70	100	108 QP	Vertical	
2	167.74	32.43	38.42	-5.99	43.50	-11.07	100	107 QP	Vertical	
3	308.39	28.87	33.56	-4.69	46.00	-17.13	100	108 QP	Vertical	
4	568.35	31.51	31.97	-0.46	46.00	-14.49	111	360 QP	Vertical	
5	604.24	33.11	32.90	0.21	46.00	-12.89	100	31 QP	Vertical	
6	812.79	33.18	30.83	3.15	46.00	-12.82	114	360 QP	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

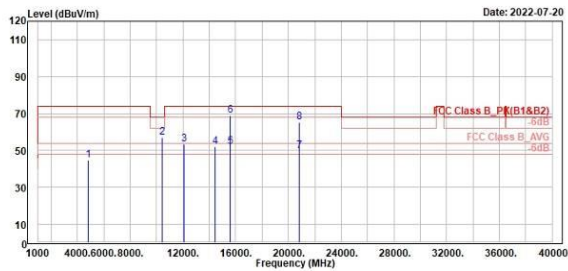
WLAN_802.11ax HE20 5200 MHz + WLAN 802.11g 2412 MHz

(Horizontal) Peak

(Vertical) Peak



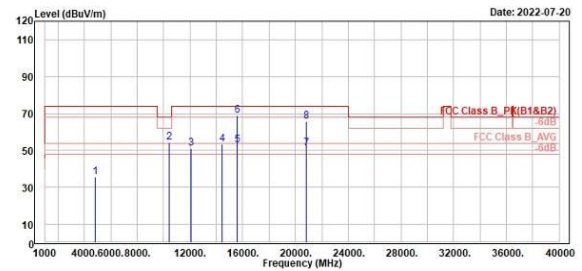
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Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	44.90	54.71	-9.81	74.00	-29.10	100	59 Peak	Horizontal
2	10400.00	57.23	60.65	-3.42	68.20	-10.97	300	73 Peak	Horizontal
3	12060.00	53.61	53.77	-0.16	74.00	-20.39	100	71 Peak	Horizontal
4	14472.00	52.03	49.45	2.58	74.00	-21.97	300	344 Peak	Horizontal
5	15600.00	51.93	48.31	3.62	54.00	-2.07	100	297 Average	Horizontal
6	15600.00	68.78	65.16	3.62	74.00	-5.22	100	297 Peak	Horizontal
7	20800.00	49.94	49.94	0.00	74.00	-24.06	200	351 Average	Horizontal
8	20800.00	65.20	65.20	0.00	74.00	-8.80	200	351 Peak	Horizontal



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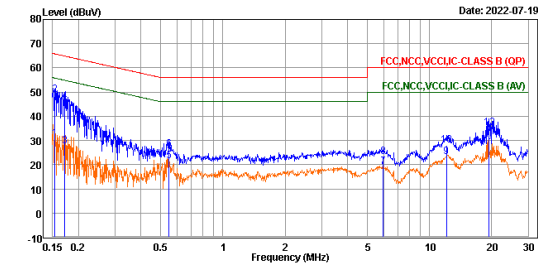
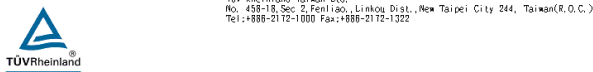
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4824.00	35.75	45.56	-9.81	74.00	-38.25	200	10 Peak	Vertical
2	10400.00	54.25	57.67	-3.42	68.20	-13.95	100	327 Peak	Vertical
3	12060.00	51.21	51.37	-0.16	74.00	-22.79	238	2 Peak	Vertical
4	14472.00	53.32	50.74	2.58	74.00	-20.68	157	360 Peak	Vertical
5	15600.00	52.92	49.30	3.62	54.00	-1.08	227	360 Average	Vertical
6	15600.00	68.73	65.11	3.62	74.00	-5.27	227	360 Peak	Vertical
7	20800.00	50.88	50.88	0.00	74.00	-23.12	288	8 Average	Vertical
8	20800.00	65.92	65.92	0.00	74.00	-8.08	288	8 Peak	Vertical

Mains Conducted Emission, 150kHz ~ 30MHz

Worst Band

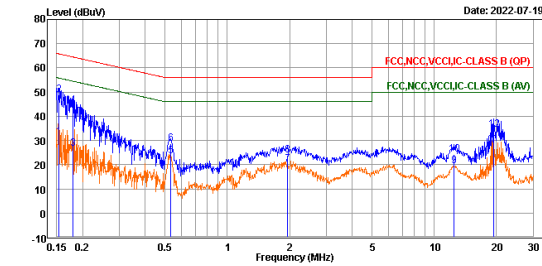
(Line)

(Neutral)



Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level	Line	Limit	Remark	Pol/Phase	Note
			Factor					
			dB					
1	0.15	30.69	21.08	9.61	55.83	-25.14 Average	line1	
2	0.15	48.95	39.34	9.61	65.85	-16.88 QP	line1	
3	0.17	27.58	17.97	9.61	54.92	-27.34 Average	line1	
4	0.17	46.02	36.41	9.61	64.92	-18.90 QP	line1	
5	0.55	21.37	11.75	9.62	46.00	-24.63 Average	line1	
6	0.55	26.17	16.55	9.62	56.00	-29.83 QP	line1	
7	5.97	19.06	9.37	9.69	50.00	-30.94 Average	line1	
8	5.97	23.31	13.62	9.69	60.00	-36.69 QP	line1	
9	12.05	23.29	13.56	9.73	50.00	-26.71 Average	line1	
10	12.05	27.82	18.09	9.73	60.00	-32.18 QP	line1	
11	19.35	27.30	17.58	9.72	50.00	-22.70 Average	line1	
12	19.35	35.13	25.41	9.72	60.00	-24.67 QP	line1	



Trace: 1

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level	Line	Limit	Remark	Pol/Phase	Note
			Factor					
			dB					
1	0.15	31.38	21.79	9.59	55.79	-24.41 Average	neutral	
2	0.15	48.85	39.26	9.59	65.79	-16.94 QP	neutral	
3	0.18	26.67	17.08	9.59	54.51	-27.84 Average	neutral	
4	0.18	44.40	34.81	9.59	64.51	-20.11 QP	neutral	
5	0.53	23.54	13.94	9.60	46.00	-22.46 Average	neutral	
6	0.53	28.56	18.96	9.60	56.00	-27.44 QP	neutral	
7	1.95	20.19	10.56	9.63	46.00	-25.81 Average	neutral	
8	1.95	23.91	14.28	9.63	56.00	-32.09 QP	neutral	
9	12.48	19.59	9.83	9.76	50.00	-30.41 Average	neutral	
10	12.48	24.37	14.61	9.76	60.00	-35.63 QP	neutral	
11	19.35	28.51	18.71	9.80	50.00	-21.49 Average	neutral	
12	19.35	34.48	24.68	9.80	60.00	-25.52 QP	neutral	