

4.6 Conducted Band Edge and Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS (MANUEL MANUEL MAN

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Test Instruments

		RF To	est Room		
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A

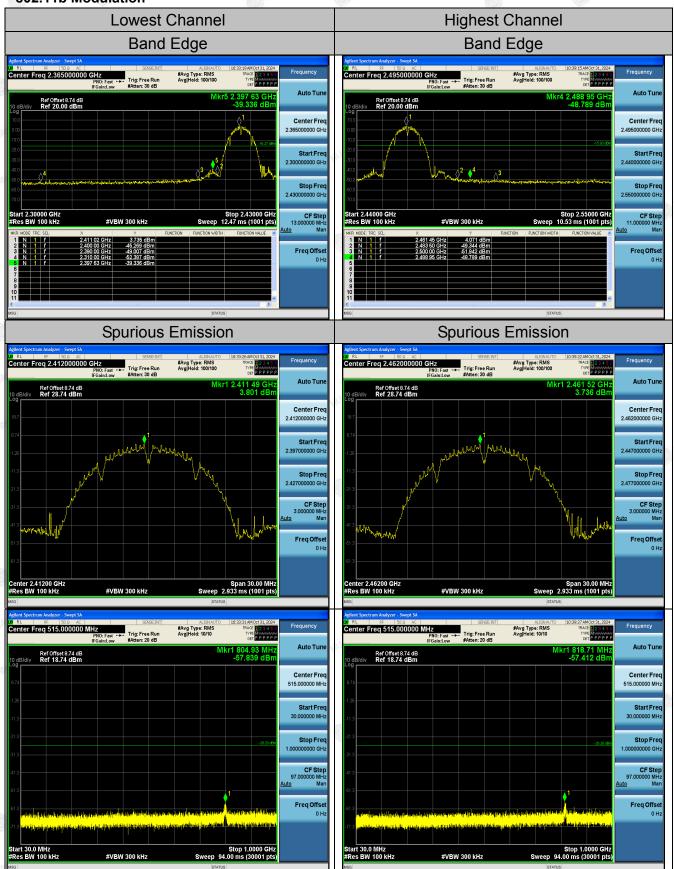
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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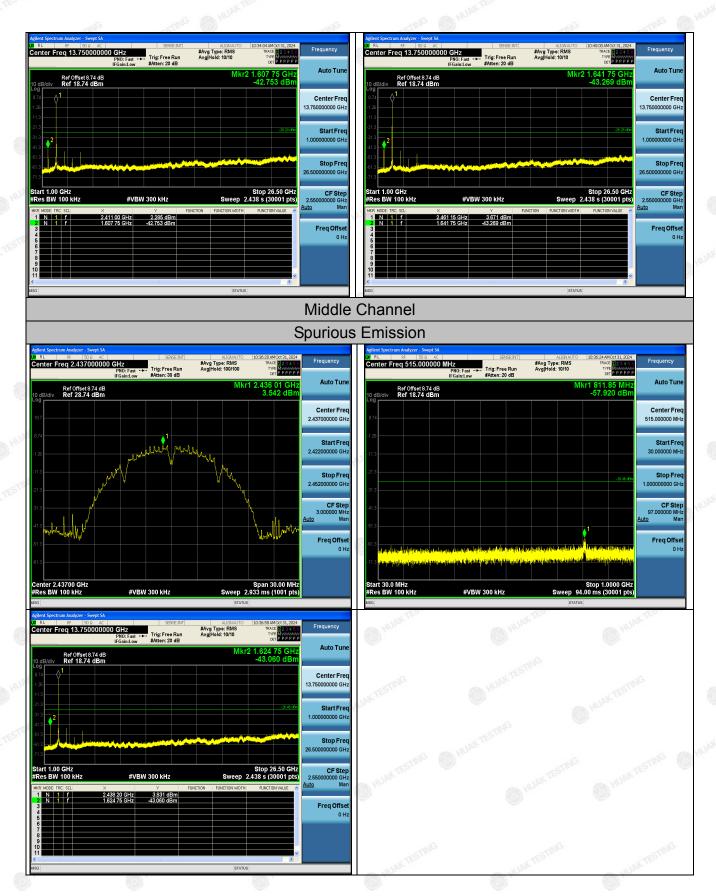


Test Data

802.11b Modulation



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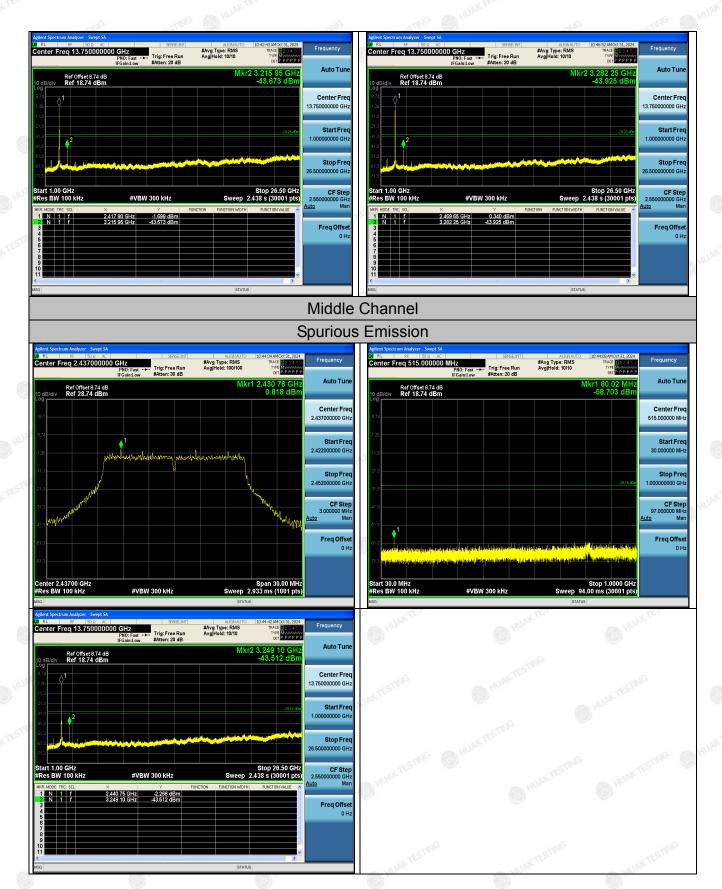


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802.11g Modulation

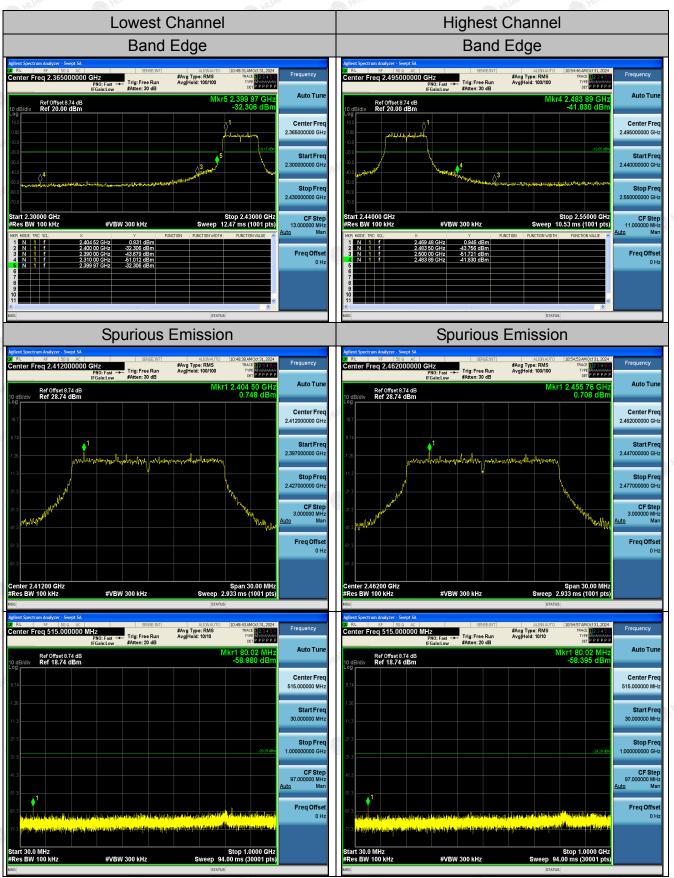


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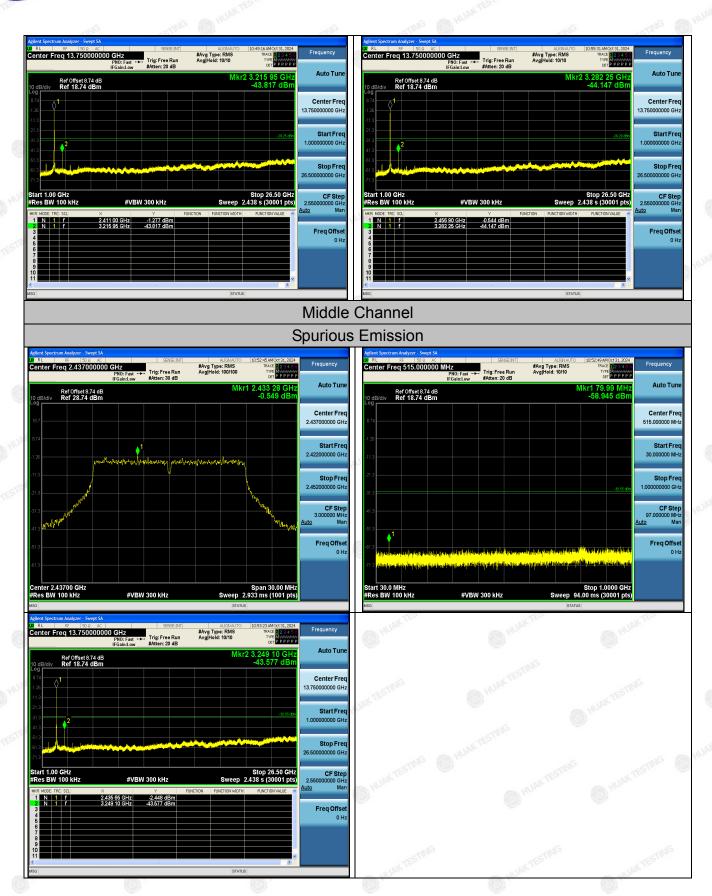
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802.11n (HT20) Modulation



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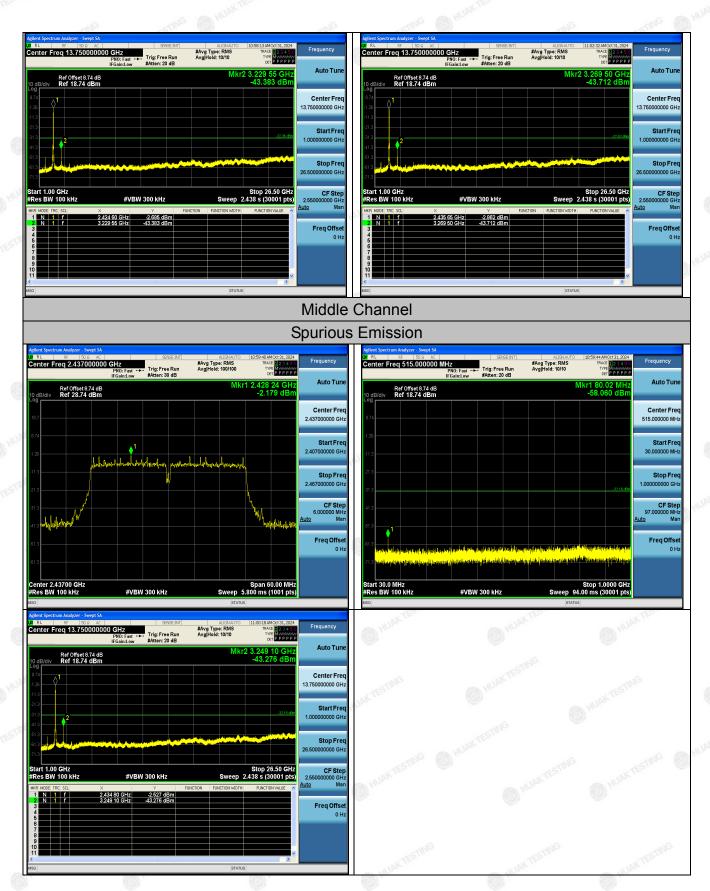


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802.11n (HT40) Modulation



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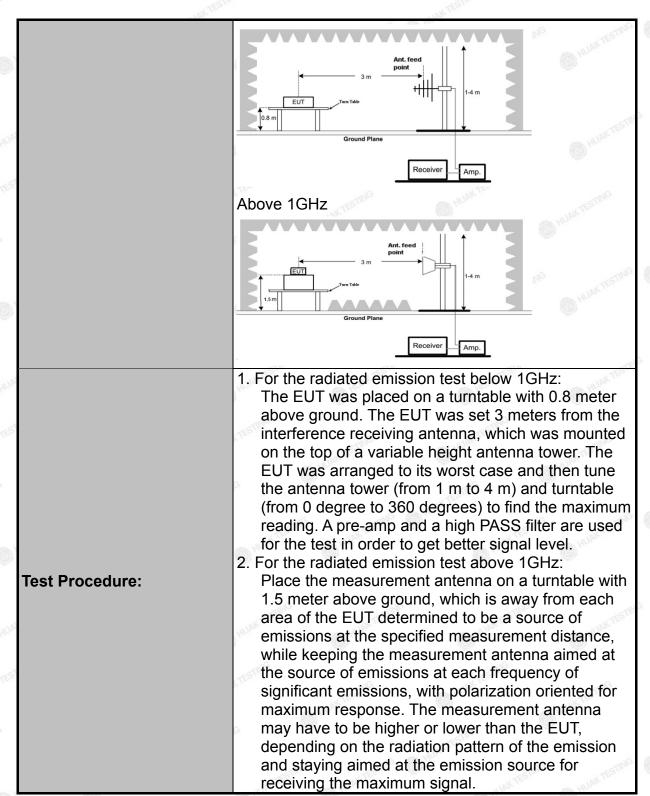
4.7 Radiated Spurious Emission Measurement

Test Specification

itting n	Hz /ertical	ı modulati	on	•	MUAN TESTING			
ital & V	/ertical	ı modulati	on	O ^V	LINY TESTING			
itting n	node with	ı modulati	on	(a)	LIFY TESTING			
itting n	node with	ı modulati	on	O '	Objec.			
ency	200	n modulati	on					
	Dotostor	Transmitting mode with modulation						
	Defector	RBW	VBW	STING F	Remark			
0kHz	Quasi-peak	200Hz	1kHz	Quasi	i-peak Value			
	Quasi-peak	9kHz	30kHz	Quasi	-peak Value			
1GHz (Quasi-peak	120KHz	300KHz	Quasi	i-peak Value			
IGHz	Peak	1MHz	3MHz	Pe	ak Value			
Above 1GHz		1MHz	10Hz	Ave	rage Value			
Frequency			4.0 4	Measurement Distance (meters)				
009-0.49	O_STING	2400/F(KHz)		300				
0.490-1.705		24000/F(I	KHz)	30				
1.705-30		.4.16.7		30				
30-88		44.	1100	3				
45.0	ATT G			3				
175				5111.	3			
Above 960			(C)		3			
II FRAHENCY I		-	Distan	ce	Detector			
o 10Uz (TO HUAK !	500			Average			
e IGHZ		5000	3		Peak			
	requency 009-0.49 490-1.70 1.705-30 30-88 88-216 216-960 bove 960	dz	Hz	Hz	Hz			

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The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4. For measurement below 1GHz, If the emission level

Report No.: HK2410286328-E

- 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
- 6.For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent.VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Test Results:

PASS

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Test Instruments

	Rad	iated Emission	Test Site (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/ TESTING	OKTESTING (1)
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	O HUN	1

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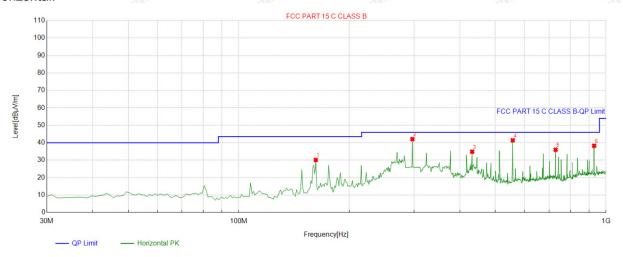
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Test Data

All the test modes completed for test. Only the worst result was reported as below:

Below 1GHz

Horizontal:



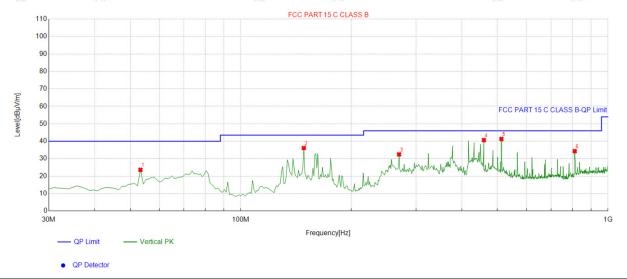
QP Detector

	Suspe	Suspected List									
5		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	162.05205	-17.59	47.73	30.14	43.50	13.36	100	192	Horizontal	
	2	297.01701	-11.84	53.92	42.08	46.00	3.92	100	139	Horizontal	
	3	431.98198	-8.85	43.73	34.88	46.00	11.12	100	306	Horizontal	
9	4	557.23723	-6.48	47.89	41.41	46.00	4.59	100	25	Horizontal	
	5	729.09909	-3.57	39.57	36.00	46.00	10.00	100	186	Horizontal	
	6	928.14814	-1.08	39.36	38.28	46.00	7.72	100	128	Horizontal	

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Vertical:



Susp	Suspected List										
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	53.303303	-13.66	37.27	23.61	40.00	16.39	100	335	Vertical		
2	148.45845	-18.14	54.26	36.12	43.50	7.38	100	61	Vertical		
3	269.82983	-12.51	45.00	32.49	46.00	13.51	100	55	Vertical		
4	459.16916	-8.94	49.62	40.68	46.00	5.32	100	206	Vertical		
5	512.57257	-8.10	49.40	41.30	46.00	4.70	100	270	Vertical		
6	811.63163	-3.63	37.98	34.35	46.00	11.65	100	122	Vertical		

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	Om-	-NG
-mG	AKTES."	WAYTES!
WAKTES.	WAK TESS.	MAKTES!
5	© 	

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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Above 1GHz

Radiated Emission Test

LOW CH1 (802.11b Mode)/2412

Horizontal:

110112011tal.	Dr. Are	Allah Yer	All	/53	100	400h, YV
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.19	-3.64	49.55	74	-24.45	peak
4824	45.26	-3.64	41.62	54	-12.38	AVG
7236	51.33	-0.95	50.38	74	-23.62	peak
7236	41.48	-0.95	40.53	54	-13.47	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

		V1497	1,000			100000
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.51	-3.64	49.87	74	-24.13	peak
4824	46.62	-3.64	42.98	54	-11.02	AVG
7236	51.17	-0.95	50.22	74	-23.78	peak
7236	42.96	-0.95	42.01	54	-11.99	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	55.08	-3.51	51.57	74	-22.43	peak
4874	43.19	-3.51	39.68	54	-14.32	AVG
7311	52.24	-0.82	51.42	74	-22.58	peak
7311	41.16	-0.82	40.34	54	-13.66	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	54.33	-3.51	50.82	74	-23.18	peak
4874	43.52	-3.51	40.01	54	-13.99	AVG
7311	50.17	-0.82	49.35	74	-24.65	peak
7311	40.08	-0.82	39.26	54	-14.74	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	55.95	-3.43	52.52	74	-21.48	peak
4924	46.39	-3.43	42.96	54	-11.04	AVG
7386	51.22	-0.75	50.47	74	-23.53	peak
7386	42.73	-0.75	41.98	54	-12.02	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

		103322	1287		100 100 100 1	1000
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	53.72	-3.43	50.29	74	-23.71	peak
4924	46.19	-3.43	42.76	54	-11.24	AVG
7386	51.29	-0.75	50.54	74	-23.46	peak
7386	42.38	-0.75	41.63	54	-12.37	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.46	-3.64	48.82	74	-25.18	peak
4824	42.39	-3.64	38.75	54	-15.25	AVG
7236	51.07	-0.95	50.12	74	-23.88	peak
7236	40.13	-0.95	39.18	54	-14.82	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	51.96	-3.64	48.32	74	-25.68	peak
4824	41.85	-3.64	38.21	54	-15.79	AVG
7236	51.24	-0.95	50.29	74	-23.71	peak
7236	40.71	-0.95	39.76	54	-14.24	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.32	-3.51	52.81	74	-21.19	peak
4874	43.12	-3.51	39.61	54	-14.39	AVG
7311	53.34	-0.82	52.52	74	-21.48	peak
7311	42.96	-0.82	42.14	54	-11.86	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	55.82	-3.51	52.31	74	-21.69	peak
4874	44.36	-3.51	40.85	54	-13.15	AVG
7311	53.95	-0.82	53.13	74	-20.87	peak
7311	42.98	-0.82	42.16	54	-11.84	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	55.17	-3.43	51.74	74	-22.26	peak
4924	44.96	-3.43	41.53	54	-12.47	AVG
7386	53.54	-0.75	52.79	74	-21.21	peak
7386	42.07	-0.75	41.32	54	-12.68	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.86	-3.43	49.43	74	-24.57	peak
4924	43.09	-3.43	39.66	54	-14.34	AVG
7386	53.24	-0.75	52.49	74	-21.51	peak
7386	42.11	-0.75	41.36	54	-12.64	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.83	-3.64	53.19	74	-20.81	peak
4824	44.92	-3.64	41.28	54	-12.72	AVG
7236	51.14	-0.95	50.19	74	-23.81	peak
7236	43.39	-0.95	42.44	54	-11.56	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.05	-3.64	52.41	74	-21.59	peak
4824	42.28	-3.64	38.64	54	-15.36	AVG
7236	53.31	-0.95	52.36	74	-21.64	peak
7236	43.36	-0.95	42.41	54	-11.59	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.89	-3.51	48.38	74	-25.62	peak
4874	42.07	-3.51	38.56	54	-15.44	AVG
7311	50.42	-0.82	49.60	74	-24.40	peak
7311	41.35	-0.82	40.53	54	-13.47	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.19	-3.51	47.68	74	-26.32	peak
4874	43.26	-3.51	39.75	54	-14.25	AVG
7311	50.08	-0.82	49.26	74	-24.74	peak
7311	40.74	-0.82	39.92	54	-14.08	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- WAKTESTIN
4924	55.52	-3.43	52.09	74	-21.91	peak
4924	44.19	-3.43	40.76	54	-13.24	AVG
7386	53.08	-0.75	52.33	74	-21.67	peak
7386	40.51	-0.75	39.76	54	-14.24	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	LAX TESTIN
4924	55.32	-3.43	51.89	74	-22.11	peak
4924	41.76	-3.43	38.33	54	-15.67	AVG
7386	53.81	-0.75	53.06	74	-20.94	peak
7386	40.49	-0.75	39.74	54	-14.26	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Bottottol Type
4844	53.26	-3.63	49.63	74	-24.37	peak
4844	43.78	-3.63	40.15	54	-13.85	AVG
7266	50.52	-0.94	49.58	74	-24.42	peak
7266	42.41	-0.94	41.47	54	-12.53	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = I evel-I imit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	54.36	-3.63	50.73	74	-23.27	peak
4844	42.07	-3.63	38.44	54	-15.56	AVG
7266	53.98	-0.94	53.04	74	-20.96	peak
7266	42.71	-0.94	41.77	54	-12.23	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Type
4874	54.29	-3.51	50.78	74	-23.22	peak
4874	42.05	-3.51	38.54	54	-15.46	AVG
7311	50.13	-0.82	49.31	74	-24.69	peak
7311	40.06	-0.82	39.24	54	-14.76	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	OK TESTIN
4874	52.36	-3.51	48.85	74	-25.15	peak
4874	42.47	-3.51	38.96	54	-15.04	AVG
7311	50.89	-0.82	50.07	74	-23.93	peak
7311	41.38	-0.82	40.56	54	-13.44	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Dottotto: Type
4904	53.26	-3.43	49.83	74	-24.17	peak
4904	42.17	-3.43	38.74	54	-15.26	AVG
7356	52.93	-0.75	52.18	74	-21.82	peak
7356	42.88	-0.75	42.13	54	_© -11.87	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	W TESTIN
4904	54.15	-3.43	50.72	74	-23.28	peak
4904	44.26	-3.43	40.83	54	-13.17	AVG
7356	52.08	-0.75	51.33	74	-22.67	peak
7356	39.72	-0.75	38.97	54	-15.03	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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Test Result of Radiated Spurious at Band edges

All modes have been tested. Only the worst result was reported as below:

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.19	-5.81	48.38	74	-25.62	peak
2310.00	44.03	-5.81	38.22	54	-15.78	AVG
2390.00	52.96	-5.84	47.12	74	-26.88	peak
2390.00	43.52	-5.84	37.68	54	-16.32	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)]
2310.00	54.89	-5.81	49.08	74	-24.92	peak
2310.00	42.08	-5.81	36.27	54	-17.73	AVG
2390.00	54.71	-5.84	48.87	74	-25.13	peak
2390.00	43.66	-5.84	37.82	54	-16.18	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	55.04	-5.81	49.23	74	-24.77	peak
2483.50	44.29	-5.81	38.48	54 _{HUM}	-15.52	AVG
2500.00	54.12	-6.06	48.06	74	-25.94	peak
2500.00	42.73	-6.06	36.67	54	-17.33	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

vortioar.			1	T		-
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Type
2483.50	54.26	-5.81	48.45	74	-25.55	peak
2483.50	43.92	-5.81	38.11	54	-15.89	AVG
2500.00	53.39	-6.06	47.33	74	-26.67	peak
2500.00	42.45	-6.06	36.39	54	-17.61	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



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Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAK TES
2310.00	56.79	-5.81	50.98	74	-23.02	peak
2310.00	44.06	-5.81	38.25	54	-15.75	AVG
2390.00	52.98	-5.84	47.14	74	-26.86	peak
2390.00	42.53	-5.84	36.69	54	-17.31	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	M HUAK TE
2310.00	56.24	-5.81	50.43	74	-23.57	peak
2310.00	42.83	-5.81	37.02	54 MAN	-16.98	AVG
2390.00	52.75	-5.84	46.91	74	-27.09	peak
2390.00	42.41	-5.84	36.57	54	-17.43	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2462MHz)

Horizontal:

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
108	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAKTES
Ī	2483.50	52.18	-5.65	46.53	74	-27.47	peak
650	2483.50	45.33	-5.65	39.68	54	-14.32	AVG
	2500.00	53.26	-5.65	47.61	74	-26.39	peak
Ī	2500.00	43.19	-5.65	37.54	54	-16.46	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	MHUAK I
2483.50	53.57	-5.65	47.92	74	-26.08	peak
2483.50	43.08	-5.65	37.43	54	-16.57	AVG
2500.00	54.92	-5.65	49.27	74	-24.73	peak
2500.00	43.03	-5.65	37.38	54	-16.62	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin =

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAK TES
2310.00	56.05	-5.81	50.24	74	-23.76	peak
2310.00	43.29	-5.81	37.48	54	-16.52	AVG
2390.00	54.11	-5.84	48.27	74	-25.73	peak
2390.00	42.17	-5.84	36.33	54	-17.67	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAR TO HUAR
2310.00	53.07	-5.81	47.26	74	-26.74	peak
2310.00	45.24	-5.81	39.43	54 MUNI	-14.57	AVG
2390.00	53.12	-5.84	47.28	74	-26.72	peak
2390.00	42.06	-5.84	36.22	54	-17.78	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2462MHz)

Horizontal:

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
N.	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAKTES
1	2483.50	53.44	-5.65	47.79	74	-26.21	peak
5)	2483.50	41.15	-5.65	35.5	54	-18.5	AVG
	2500.00	53.21	-5.65	47.56	74	-26.44	peak
	2500.00	43.19	-5.65	37.54	54	-16.46	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Ī	Frequency	Reading Result	Factor	Emission Level	STANG Limits	Margin	Detector Type
ş	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(1) HUM. 1) PO
16	2483.50	53.96	-5.65	48.31	74	-25.69	peak
	2483.50	45.81	-5.65	40.16	54	-13.84	AVG
3	2500.00	53.43	-5.65	47.78	74	-26.22	peak
Ī	2500.00	43.92	-5.65	38.27	54	-15.73	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAKTES
2310.00	53.14	-5.81	47.33	74	-26.67	peak
2310.00	STING /	-5.81	/ STING	54	TEST /	AVG
2390.00	51.75	-5.84	45.91	74	-28.09	peak
2390.00	1	-5.84	1	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	MILAN TEST
2310.00	53.83	-5.81	48.02	74	-25.98	peak
2310.00	ESTING /	-5.81	LAK TESTING	54	1	AVG
2390.00	53.11	-5.84	47.27	74	-26.73	peak
2390.00	MG MI	-5.84	1	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2452MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	MUAK TE
2483.50	52.06	-5.65	46.41	74	-27.59	peak
2483.50	ESTING /	-5.65	NYTESTING	54	1	AVG
2500.00	53.39	-5.65	47.74	74	-26.26	peak
2500.00	J HUI	-5.65	1	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Dottotto: Type
2483.50	56.28	-5.65	50.63	74 HUAY	-23.37	peak
2483.50	1	-5.65	HUAK	54	1	AVG
2500.00	53.47	-5.65	47.82	74	-26.18	peak
2500.00	AKTESTING OF THE	-5.65	ING INTESTIN	54	TESTING	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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4.8 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is an External Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3dBi.

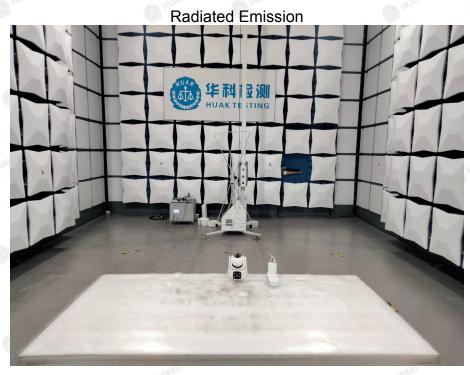
WIFI ANTENNA



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5. Photographs of Test





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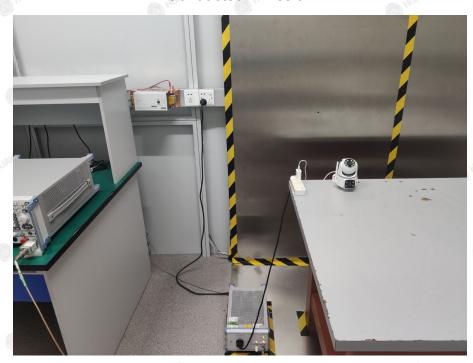
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





Conducted Emission



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6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

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