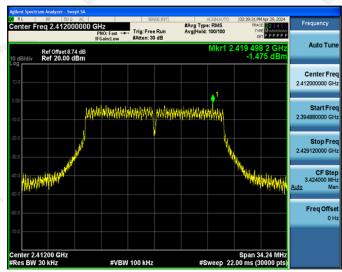


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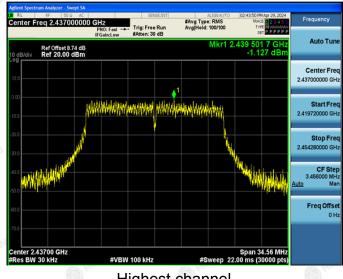
Report No.: HK2404071578-E

802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel

Frequency r Freq 2.462000000 GHz #Avg Type: RMS Avg|Hold: 100/100 rig: Free Run PPPP Auto Tur Ref Offset 8.74 dB Ref 20.00 dBm 9 504 5 GI -1.741 dE Center Fre Start Fre 2.445120000 G internet internet Stop Fre 2.47 CF St 3.376000 Freq Offs Span 33.76 M 22.00 ms (30000 #VBW 100 kHz

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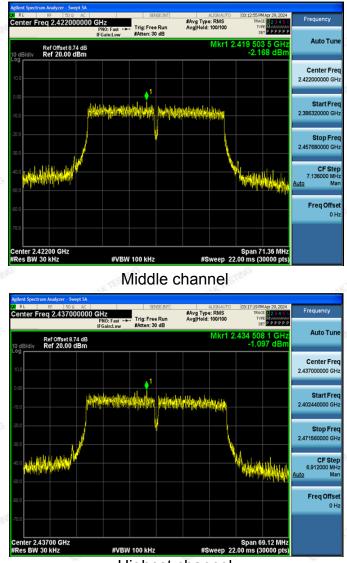
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Lowest channel

FIF

802.11n (HT40) Modulation



Highest channel Frequency IO GHZ PNO: Fast ----IFGain:Low #Atten: 30 dB eq 2.45200 #Avg Type: RMS Avg|Hold: 100/100 Auto Tur Ref Offset 8.74 dB Ref 20.00 dBm Center Fre Start Fr Stop Fre CF Ste Freq Offs 0 H Span 71.04 N #Sweep 22.00 ms (30000 nter 2.45200 GHz es BW 30 kHz #VBW 100 kHz

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Test Specification

HUAK TESTING

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

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4.11. Test Instruments

	RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due						
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025						
RF cable	Times	1-40G	HKE-034	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	JS1120-3 Version 3.3.23	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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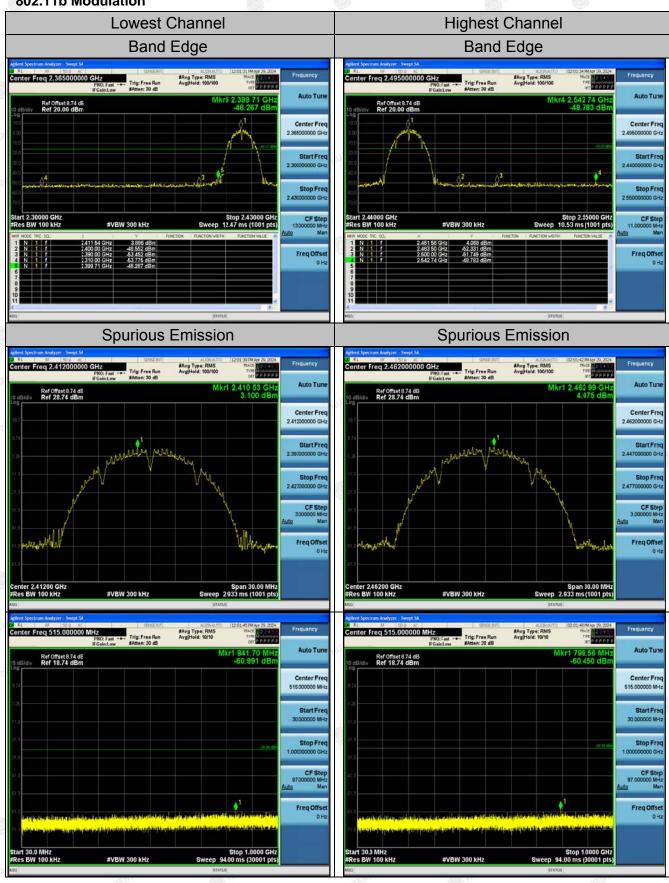
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Test Data





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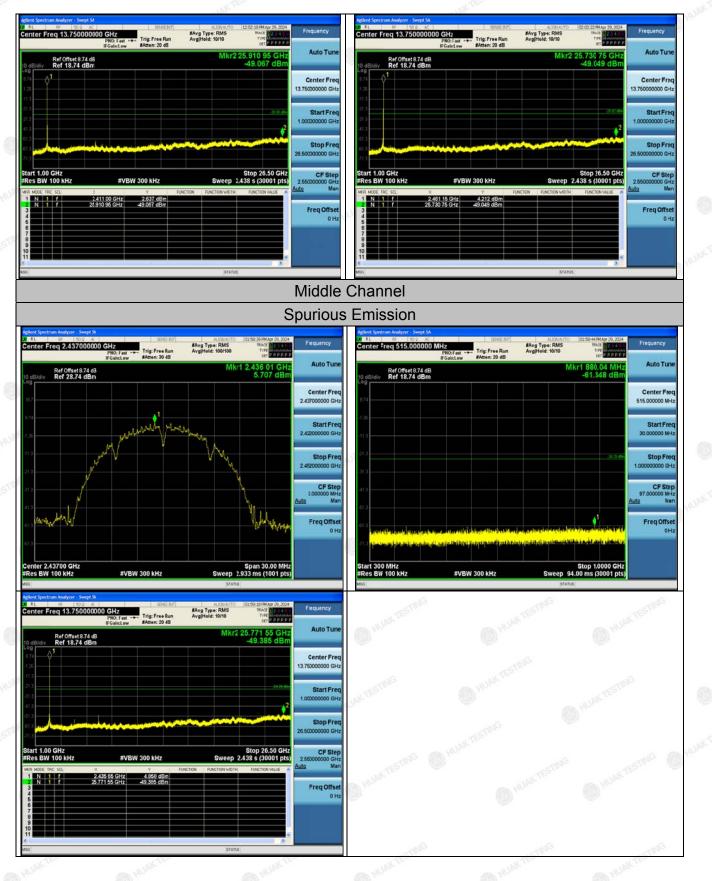
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Report No.: HK2404071578-E

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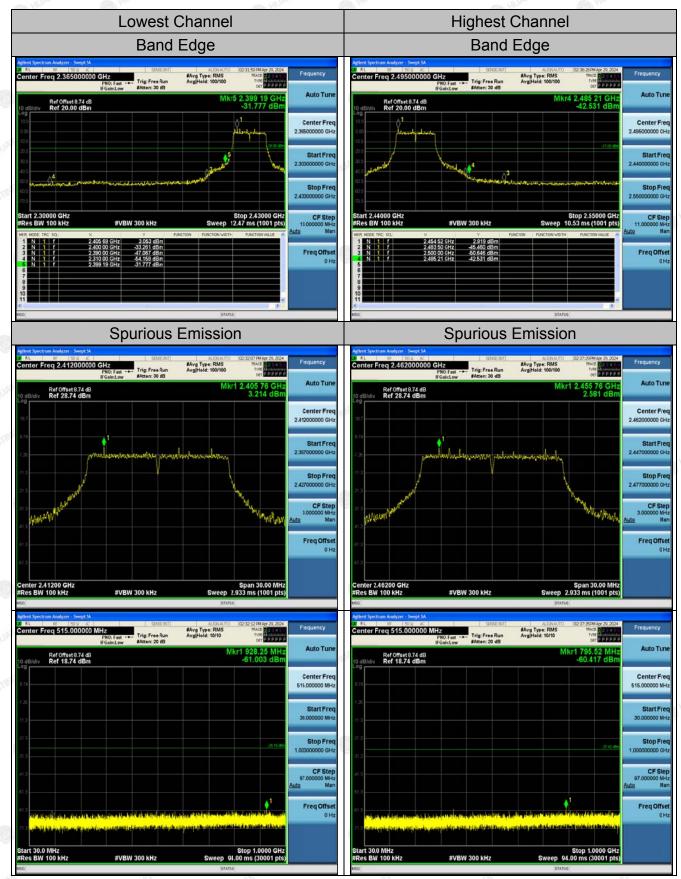
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802.11g Modulation



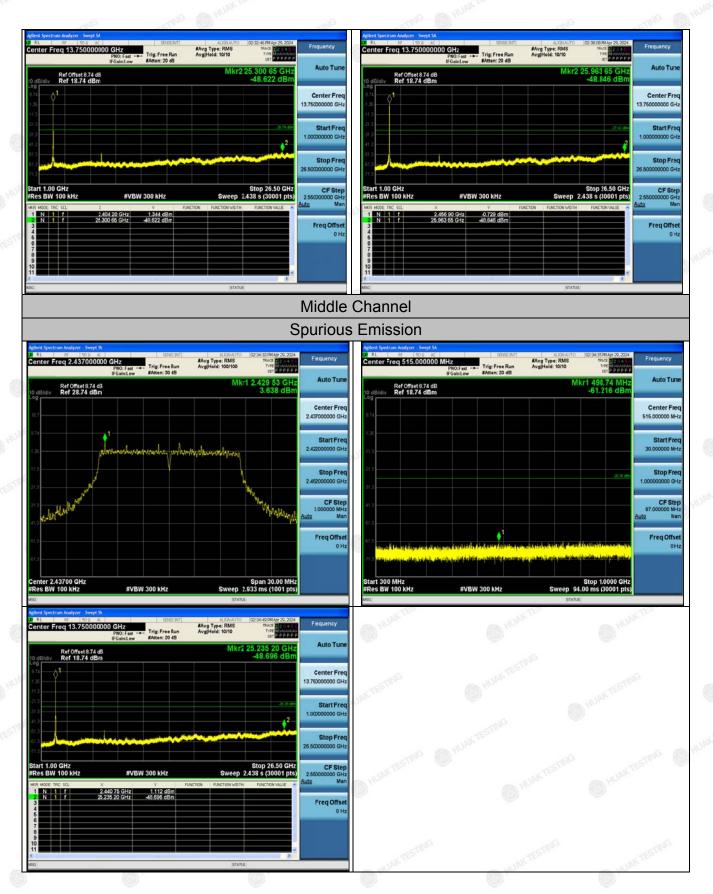
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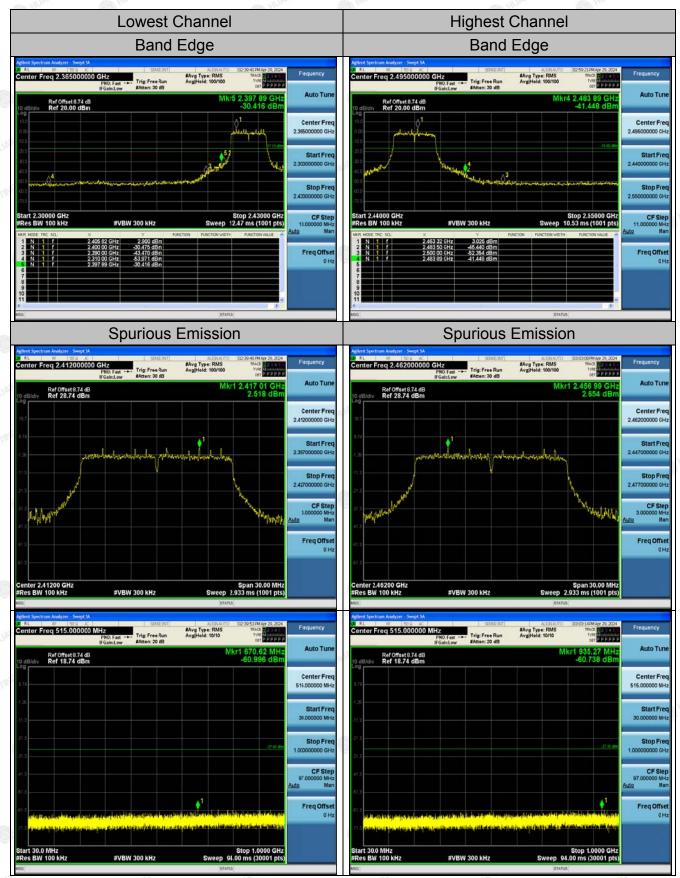
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802.11n (HT20) Modulation



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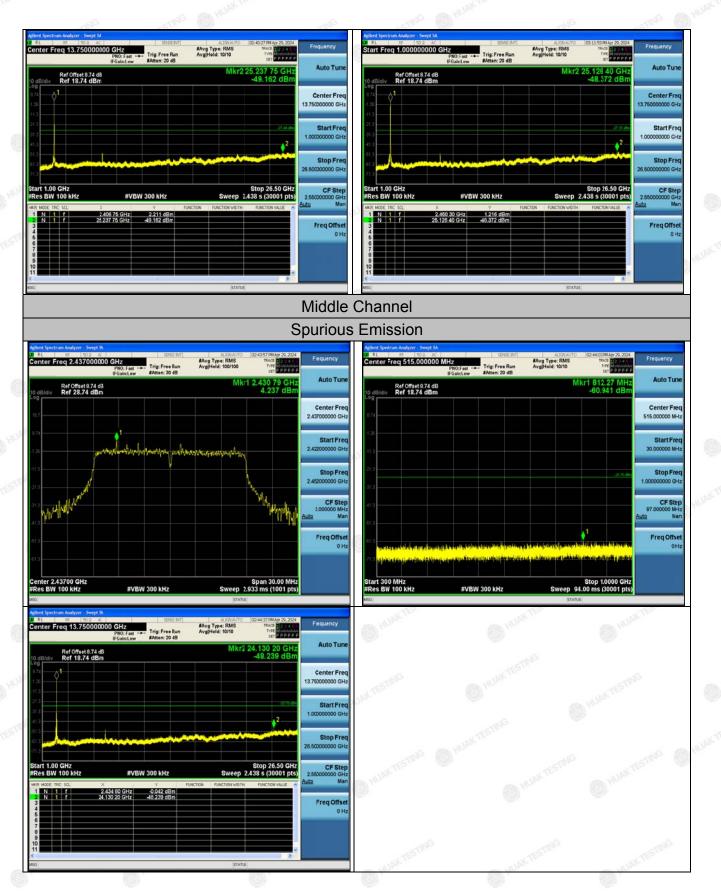
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802.11n (HT40) Modulation



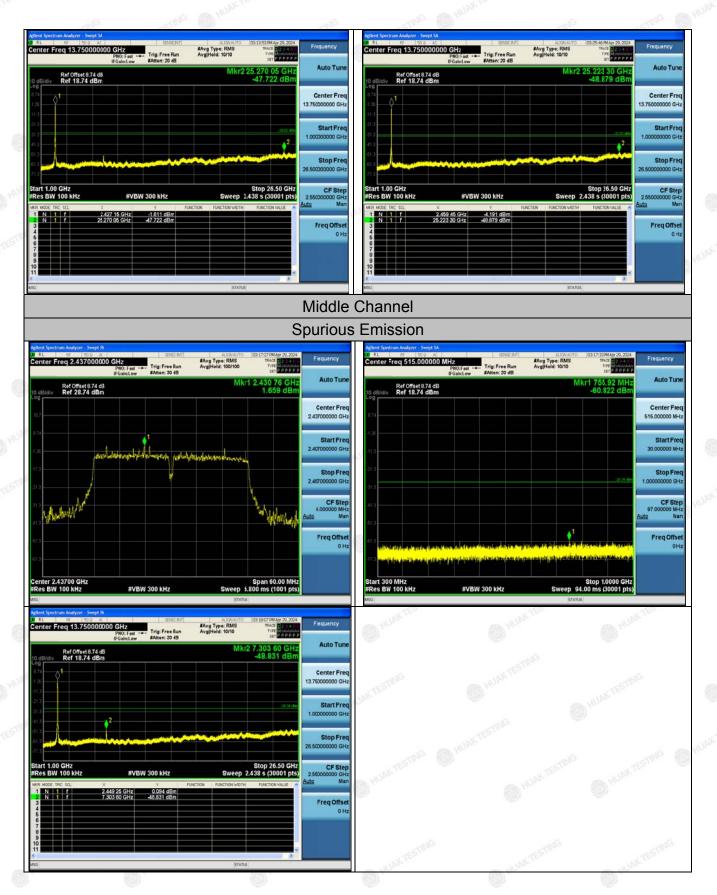
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FICATION



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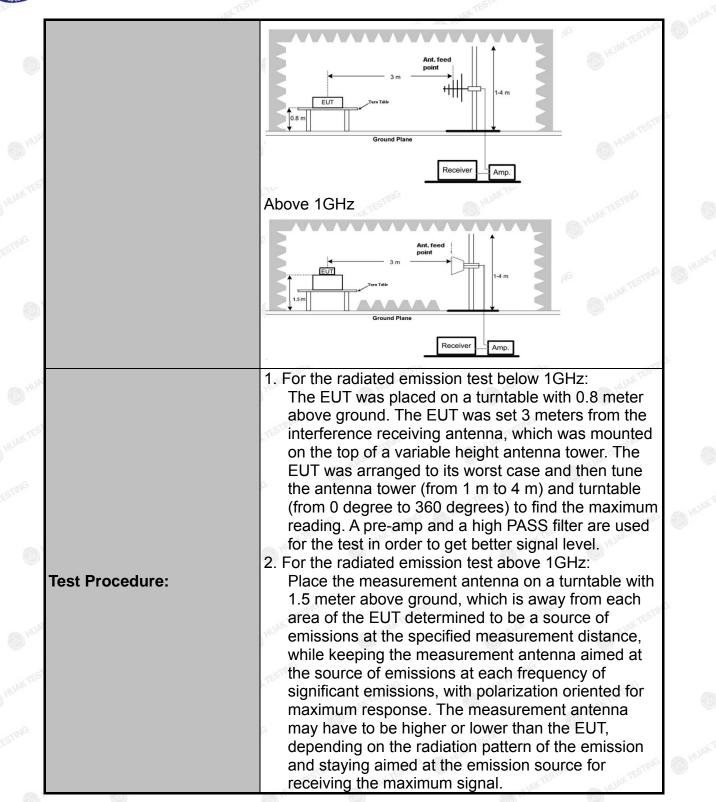
4.12. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10): 2013		HUAN		O HUAN
Frequency Range:	9 kHz to 25 0	GHz		STING		
Measurement Distance:	3 m	TESTING	A HU	AKTES		TESTING
Antenna Polarization:	Horizontal &	Vertical		.0	0	HURE
Operation mode:	Transmitting	mode with	n modulati	ion		
	Frequency	Detector	RBW	VBW	STIME	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz		i-peak Value
Receiver Setup:	2000 150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quas	i-peak Value
•	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	i-peak Value
	Above 1GHz	Peak	^{اه} 1MHz	3MHz	P	eak Value
		Peak	1MHz	10Hz	Ave	erage Value
	Frequen	ю	Field Stre		Measurement Distance (meters)	
	0.009-0.490		2400/F(KHz)		300	
	0.490-1.705		24000/F(30	
	1.705-30		30		0	30
	30-88		100			3
	88-216		150		-10	3
Limit:	216-96		200	A.	STIM	3
	Above 960 500					3
	Frequency		Field Strength (microvolts/meter)		ment ce rs)	Detector
	Above 1GHz	HUAK I	500	3		Average
	Above IGHz		5000	3		Peak
Test setup:	For radiated	3 m Twx Take Ground Plane				unit restricts
	30MHz to 10	GHz				

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	- 189 ⁻
	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.
D HUP	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
AKTEST	4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB
ING	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:
0	 (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 =
D HUP	max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
NETES	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
MG	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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4.13. Test Instruments

	Rad	iated Emission	Test Site (966	5)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	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	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	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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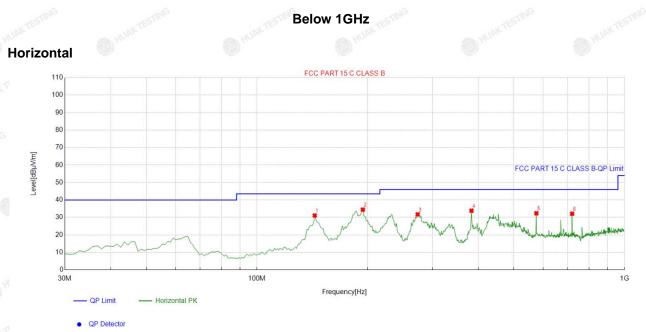
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4.14. Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:



	Suspe	cted List								
-		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	143.60360	-18.35	49.48	31.13	43.50	12.37	100	72	Horizontal
8	2	194.09409	-15.23	49.71	34.48	43.50	9.02	100	135	Horizontal
	3	273.71371	-12.65	44.41	31.76	46.00	14.24	100	280	Horizontal
	4	383.43343	-9.11	42.99	33.88	46.00	12.12	100	126	Horizontal
	5	575.68568	-5.53	37.93	32.40	46.00	13.60	100	272	Horizontal
8	6	720.36036	-4.25	36.40	32.15	46.00	13.85	100	201	Horizontal

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

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FICATION

Vertical FCC PART 15 C CLASS B 110 100 90 80 70 60 FCC PART 15 C CLASS B-QP Limit 50 40 30 10 0 30M 100M 1G Frequency[Hz] QP Limit Vertical PK

Suspected List

QP Detecto

L										
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
1	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	61.071071	-13.82	43.25	29.43	40.00	10.57	100	303	Vertical
	2	143.60360	-18.35	52.24	33.89	43.50	9.61	100	63	Vertical
3	3	191.18118	-15.86	50.09	34.23	43.50	9.27	100	353	Vertical
	4	230.99099	-13.92	48.49	34.57	46.00	11.43	100	2	Vertical
	5	272.74274	-12.61	39.30	26.69	46.00	19.31	100	14	Vertical
	6	497.03703	-7.97	39.45	31.48	46.00	14.52	100	200	Vertical

Remark: Factor = Cable loss + Antenna factor - 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)
- WARTES	- WINK TES.	
		AKTESTI"
mic - mic Mi	als and 🔘	10°

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:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	55.54	-3.64	51.9	74	o -22.1	peak
4824	42.44	-3.64	38.8	54	-15.2	AVG
7236	51.37	-0.95	50.42	74	-23.58	peak
7236	39.35	-0.95	38.4	54	-15.6	AVG

Vertical:

³ 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	41.55	-3.64	37.91	54	-16.09	AVG
7236	50.21	-0.95	49.26	74	-24.74	peak
7236	37.49	-0.95	36.54	54	-17.46	AVG

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequer	ncy Reading Result	t Factor	Emission Level	Limits	Margin	Detector
(MHz) (dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	55.04	-3.51	51.53	74	-22.47	peak
4874	42.21	-3.51	38.7	54	-15.3	AVG
7311	50.35	-0.82	49.53	74	-24.47	peak
7311	39.13	-0.82	38.31	54	-15.69	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	54.05	-3.51	50.54	74	-23.46	peak
4874 ⁴	42.52	-3.51	39.01	54	-14.99	AVG
7311	51.25	-0.82	50.43	74	-23.57	peak
7311	39.6	-0.82	38.78	54		AVG

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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	52.84	-3.43	49.41	74	-24.59	peak
o 4924	43.44	-3.43	40.01	54	-13.99	AVG
7386	52.13	-0.75	51.38	74	-22.62	peak
7386	39.31	-0.75	38.56	54	-15.44	AVG

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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Levelimit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	54.34	-3.43	50.91	74	-23.09	peak
4924	41.54	-3.43	38.11	54	-15.89	AVG
7386	52.05	-0.75	51.3	74	-22.7	peak
7386	38.2	-0.75	37.45	54	-16.55	AVG

Remark:

imit

(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	53.22	-3.64	49.58	74	-24.42	peak
4824	41.14	-3.64	37.5	54	-16.5	AVG
7236	50.76	-0.95	49.81	74	-24.19	peak
7236	40.01	-0.95	39.06	54	-14.94	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.33	-3.64	48.69	74	-25.31	peak
4824	41.14	-3.64	37.5	54	-16.5	AVG
7236	50.98	-0.95	50.03	74	-23.97	peak
7236	39.06	-0.95	38.11	54	-15.89	AVG

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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	53.40	-3.51	49.89	74	-24.11	peak
4874	42.06	-3.51	38.55	54	-15.45	AVG
7311	49.53	-0.82	48.71	74	-25.29	peak
7311	39.19	-0.82	38.37	54	-15.63	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.77	-3.51	48.26	74	-25.74	peak
4874 ⁴	43.89	-3.51	40.38	54	-13.62	AVG
7311	51.09	-0.82	50.27	74	-23.73	peak
7311	41.5	-0.82	40.68	54	-13.32	AVG

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CATION

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	51.63	-3.43	48.2	74 🕚	-25.8	peak
4924	43.38	-3.43	39.95	54	-14.05	AVG
7386	49.54	-0.75	48.79	74 mu ⁶⁴	-25.21	peak
7386	40.79	-0.75	40.04	54	-13.96	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	54.74	-3.43	51.31	74	-22.69	peak
4924	42.14	-3.43	38.71	54	-15.29	AVG
7386	52.65	-0.75	51.9	74	-22.1	peak
7386	39.46	-0.75	38.71	54	-15.29	AVG

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	52.58	-3.64	48.94	74	-25.06	peak
4824	43.53	-3.64	39.89	54	-14.11	AVG
7236	50.01	-0.95	49.06	74	-24.94	peak
7236	39.26	-0.95	38.31	54	-15.69	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier; Lev	el = Reading + I	actor; Margin	= Level-

Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[,] (dBµV/m)	(dB)	Туре
4824	52.13	-3.64	48.49	74 🔘	-25.51	peak
4824	41.21	-3.64	37.57	54	-16.43	AVG
7236	52.39	-0.95	51.44	74	-22.56	peak
7236	39.51	-0.95	38.56	54	-15.44	AVG
Remark: Factor	r = Antenna Factor	+ Cable Loss –	Pre-amplifier; Lev	el = Reading +	Factor; Margin	= Level-

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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	52.85	-3.51	49.34	74.00	-24.66	peak
4874	41.64	-3.51	38.13	54.00	-15.87	AVG
7311	50.54	-0.82	49.72	74.00	-24.28	peak
7311	38.07	-0.82	37.25	54.00	-16.75	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.36	-3.51	48.85	74.00	-25.15	peak
4874	45.95	-3.51	42.44	54.00	-11.56	AVG
7311	50.02	-0.82	49.20	74.00	-24.80	peak
7311	41.13	-0.82	40.31	54.00	-13.69	AVG

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.96	-3.43	49.53	74	-24.47	peak
4924	41.06	-3.43	37.63	54	-16.37	AVG
7386	52.89	-0.75	52.14	74	-21.86	peak
7386	40.33	-0.75	39.58	54	-14.42	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Turc
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4924	53.42	-3.43	49.99	74	-24.01	peak
4924 descent	41.67	-3.43	38.24	54	-15.76	AVG
7386	49.51	-0.75	48.76	74 🌒	-25.24	peak
7386	40.35	-0.75	39.6	54	-14.4	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

		Emission Level	Limits	Margin	Detector Ture
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
53.26	-3.63	49.63	74	-24.37	peak
44.32	-3.63	40.69	54	-13.31	AVG
51.17	-0.94	50.23	74	-23.77	peak
40.77	-0.94	39.83	54	-14.17	AVG
	53.26 44.32 51.17	53.26 -3.63 44.32 -3.63 51.17 -0.94	53.26 -3.63 49.63 44.32 -3.63 40.69 51.17 -0.94 50.23	53.26 -3.63 49.63 74 44.32 -3.63 40.69 54 51.17 -0.94 50.23 74	53.26 -3.63 49.63 74 -24.37 44.32 -3.63 40.69 54 -13.31 51.17 -0.94 50.23 74 -23.77

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Data star Torra
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	54.03	-3.63	50.4	74	-23.6	peak
4844	40.56	-3.63	36.93	54 🔘 🕬	-17.07	AVG
7266	52.03	-0.94	51.09	74	-22.91	peak
7266	39.69	-0.94	38.75	54	-15.25	AVG
~STR	TES C		TEST TEST		~STM*	TES

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	52.71	-3.51	49.2	74	-24.8	peak
4874	39.92	-3.51	36.41	54	-17.59	AVG
7311	50.77	-0.82	49.95	74	-24.05	peak
7311	38.58	-0.82	37.76	54	-16.24	AVG
- 0	NG CONT			JG AND THE	.0.	Dia

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🕬 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4874	51.36	-3.51	47.85	74	-26.15	peak
4874	43.26	-3.51	39.75	54 🔊 🖤	-14.25	AVG
7311	49.77	-0.82	48.95	74	-25.05	peak
7311	43.05	-0.82	42.23	54	-11.77	AVG
CTIT .	15		clus 45°	1 m	CTII"	163

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Meter Reading	Factor	Emission Level	Limits	Margin	Data dan Trans
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
52.72	-3.43	49.29	74	-24.71	peak
42.48	-3.43	39.05	54	-14.95	AVG
52.11	-0.75	51.36	74	-22.64	peak
40.04	-0.75	39.29	54	^ه -14.71	AVG
	(dBµV) 52.72 42.48 52.11	(dBµV) (dB) 52.72 -3.43 42.48 -3.43 52.11 -0.75	(dBµV) (dB) (dBµV/m) 52.72 -3.43 49.29 42.48 -3.43 39.05 52.11 -0.75 51.36	(dBµV) (dB) (dBµV/m) (dBµV/m) 52.72 -3.43 49.29 74 42.48 -3.43 39.05 54 52.11 -0.75 51.36 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 52.72 -3.43 49.29 74 -24.71 42.48 -3.43 39.05 54 -14.95 52.11 -0.75 51.36 74 -22.64

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turce
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	52.54	-3.43	49.11	74	-24.89	peak
4904	45.48	-3.43	42.05	54	-11.95	AVG
7356	50.51	-0.75	49.76	74	-24.24	peak
7356	40.74	-0.75	39.99	54	-14.01	AVG
W TES	101		TES		W TES	101

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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

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)	
2310.00	53.1	-5.81	47.29	74	-26.71	peak
2310.00	41.74	-5.81	35.93	54	-18.07	AVG
2390.00	52.8	-5.84	46.96	74	-27.04	peak
2390.00	39.27	-5.84	33.43	54	-20.57	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.75	-5.81	47.94	74	-26.06	peak
2310.00	43.49	-5.81	37.68	54	-16.32	AVG
2390.00	53.61	-5.84	47.77	74	-26.23	peak
2390.00	40.45	-5.84	34.61	se 54	-19.39	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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)	
2483.50	53.66	-5.81	47.85	74 M ^{MM}	-26.15	peak
2483.50	42.8	-5.81	36.99	54	-17.01	AVG
2500.00	51.66	-6.06	45.6	74	-28.4	peak
2500.00	39.52	-6.06	33.46	54	-20.54	AVG

Vertical:

1 Marsh	Ala	110.		. Ala	Mar
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
54.24	-5.81	48.43	74	-25.57	peak
44.85	-5.81	39.04	54	-14.96	AVG
53.46	-6.06	47.4	74	-26.6	peak
41.9	-6.06	35.84	54	-18.16	AVG
	(dBµV) 54.24 44.85 53.46	(dBµV) (dB) 54.24 -5.81 44.85 -5.81 53.46 -6.06	(dBµV) (dB) (dBµV/m) 54.24 -5.81 48.43 44.85 -5.81 39.04 53.46 -6.06 47.4	(dBµV) (dB) (dBµV/m) (dBµV/m) 54.24 -5.81 48.43 74 44.85 -5.81 39.04 54 53.46 -6.06 47.4 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 54.24 -5.81 48.43 74 -25.57 44.85 -5.81 39.04 54 -14.96 53.46 -6.06 47.4 74 -26.6

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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)	
2310.00	51.73	-5.81	45.92	74 www	-28.08	peak
2310.00	40.89	-5.81	35.08	54	-18.92	AVG
2390.00	49.77	-5.84	43.93	74	-30.07	peak
2390.00	37.9	-5.84	32.06	54	-21.94	AVG

Vertical:

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Frequency	Reading Result	Factor	Emission Level	Limits 🕚	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	55.05	-5.81	49.24	74	-24.76	peak
2310.00	44.9	-5.81	39.09	54	-14.91	AVG
2390.00	51.78	-5.84	45.94	74	-28.06	peak
2390.00	44.92	-5.84	39.08	54	-14.92	AVG

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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)	
⁶⁶⁰ 2483.50	54.48	-5.65	48.83	74	-25.17	peak
2483.50	43.28	-5.65	37.63	54	-16.37	AVG
2500.00	50.13	-5.65	44.48	74	-29.52	peak
2500.00	40.03	-5.65	34.38	54	-19.62	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	54.38	-5.65	48.73	74	-25.27	peak
2483.50	42.33	-5.65	36.68	54	-17.32	AVG
2500.00	53.2	-5.65	47.55	74	-26.45	peak
2500.00	41.02	-5.65	35.37	54	-18.63	AVG

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)	0
2310.00	51.52	-5.81	45.71	74	-28.29	peak
2310.00	40.41	-5.81	34.6	54	-19.4	AVG
2390.00	49.96	-5.84	44.12	74	-29.88	peak
2390.00	39.88	-5.84	34.04	54	-19.96	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	55.38	-5.81	49.57	74 _{HUM}	-24.43	peak
2310.00	42.22	-5.81	36.41	54	-17.59	AVG
2390.00	52.93	-5.84	47.09	74	-26.91	peak
2390.00	40.24	-5.84	34.4	54	-19.6	AVG

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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)	
2483.50	54.78	-5.65	49.13	74 MUN	-24.87	peak
2483.50	42.53	-5.65	36.88	54	-17.12	AVG
2500.00	51.22	-5.65	45.57	74	-28.43	peak
2500.00	41.92	-5.65	36.27	54	-17.73	AVG

Vertical:

14	1 Mar	All Marine	Hay		Han	MAN WALL
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Typ
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2483.50	52.8	-5.65	47.15	74	-26.85	peak
2483.50	42.31	-5.65	36.66	54	-17.34	AVG
2500.00	50.75	-5.65	45.1	74	-28.9	peak
2500.00	37.53	-5.65	31.88	54	-22.12	AVG

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)	
2310.00	56.15	-5.81	50.34	74	-23.66	peak
2310.00	1	-5.81	- HUNY ESTIM	54	/	AVG
2390.00	54.96	-5.84	49.12	74	-24.88	peak
2390.00	HUAL	-5.84	/	54	/	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	54.87	-5.81	49.06	74	-24.94	peak
2310.00	/	-5.81	O HOM	54	1 🔘	AVG
2390.00	53.04	-5.84	47.2	74	-26.8	peak
2390.00	JAK TESTIN /	-5.84	S'ONG LANTESTIN	54	W Torne	AVG

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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)	
2483.50	55.77	-5.65	50.12	74	-23.88	peak
2483.50	/	-5.65	· /	54	/ 🤍	AVG
2500.00	51.36	-5.65	45.71	74	-28.29	peak
2500.00	JAKTE /	-5.65	AUAKTL	54	- HUAK TES	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	53.25	-5.65	47.6	74	-26.4	peak
2483.50	I MUA	-5.65	1	54	1	AVG
2500.00	52.68	-5.65	47.03	74	-26.97	peak
2500.00	/	-5.65	/	54	9	AVG

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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4.15. 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 a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 4.83dBi.



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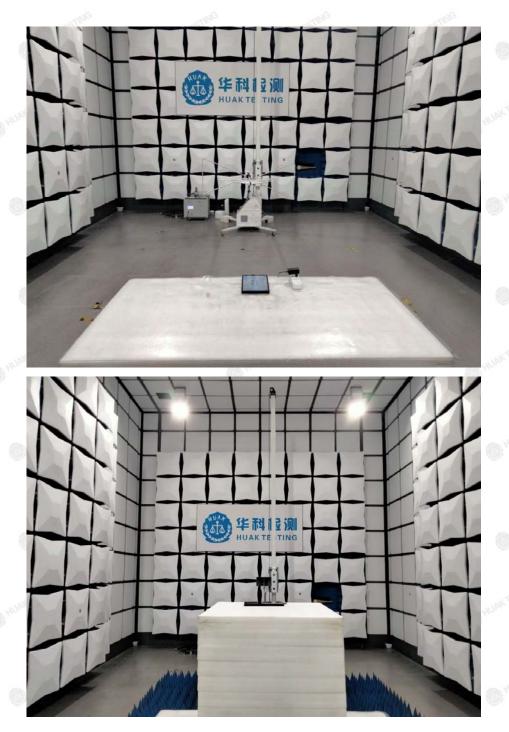
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5. Photograph of Test

Radiated Emissions



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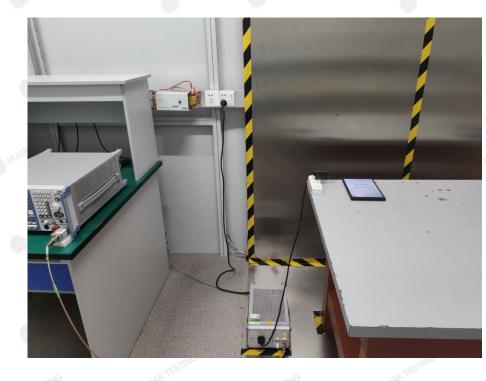
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Report No.: HK2404071578-E

Conducted Emission



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FICATION

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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