

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

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RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-048	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					

Test Instruments

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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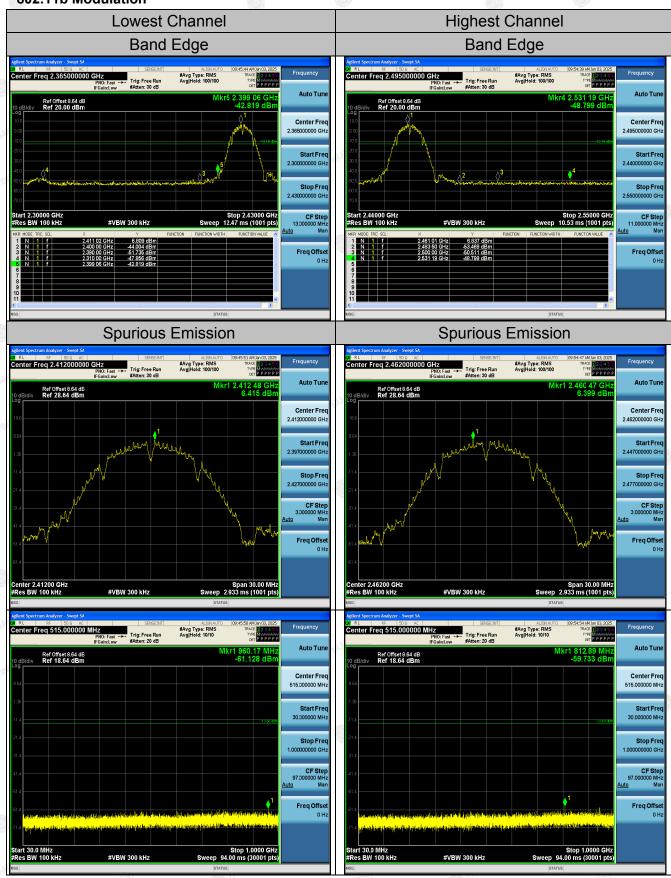
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Test Data





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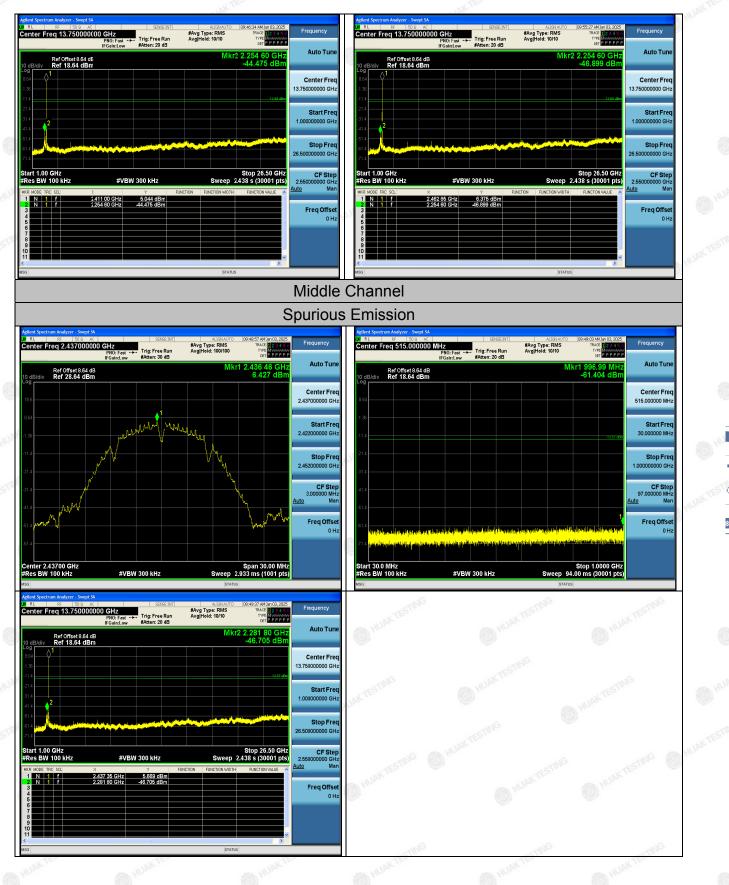
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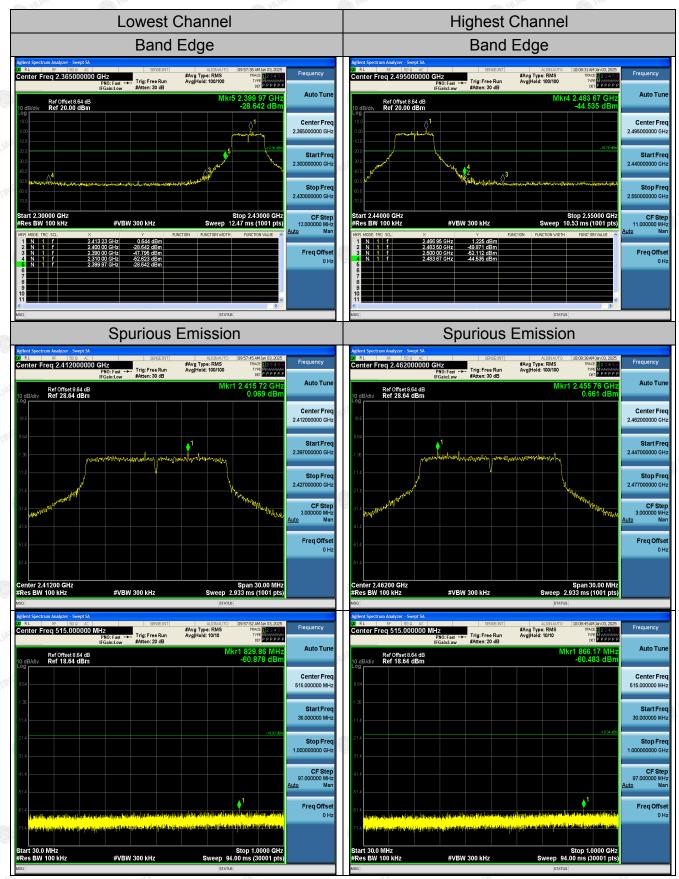


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802.11g Modulation



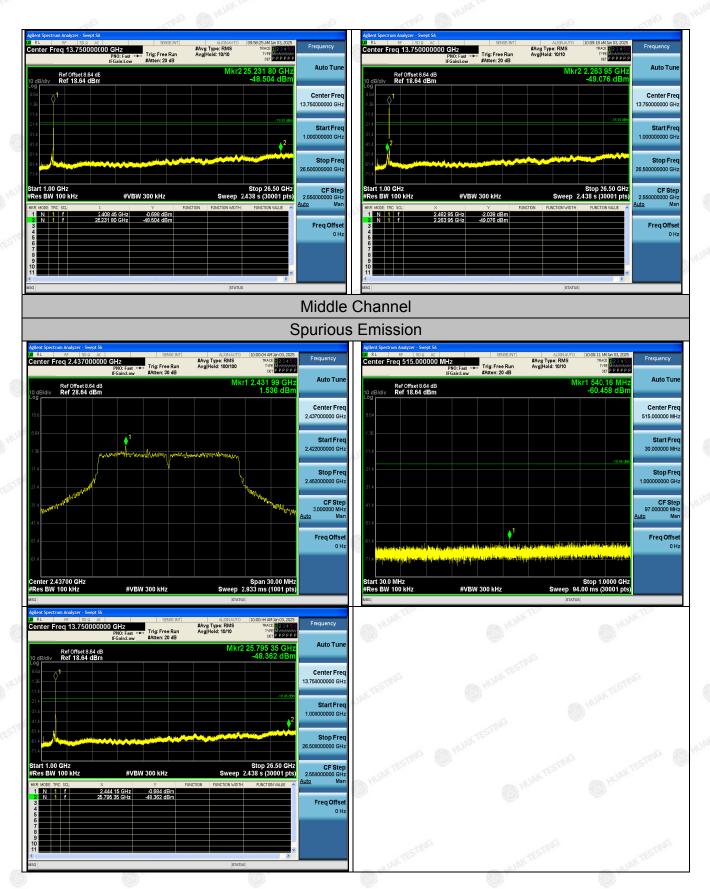
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802.11n (HT20) Modulation



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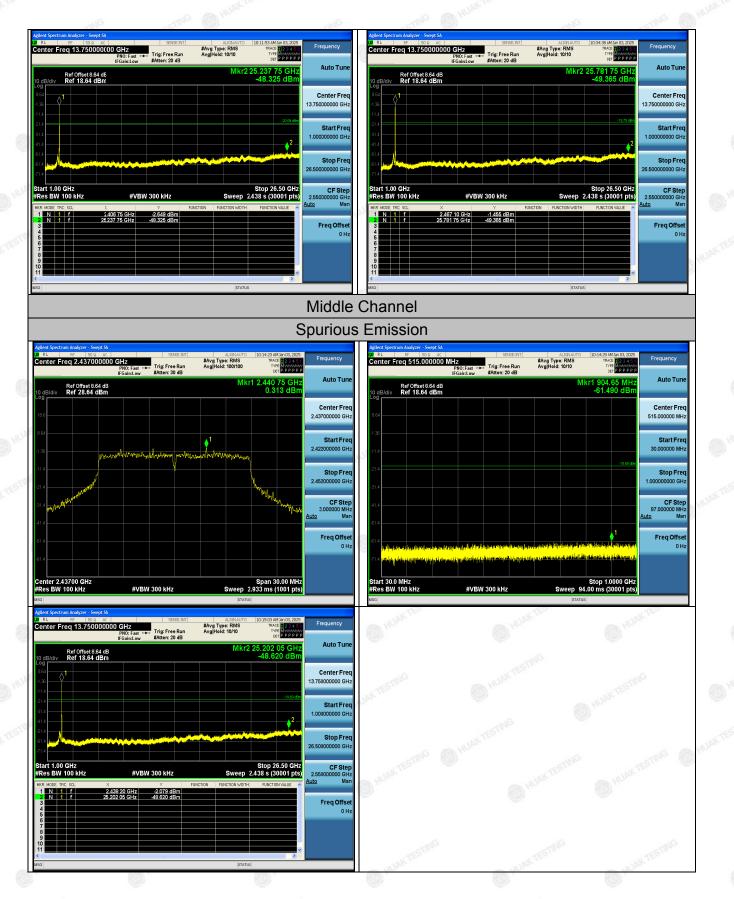
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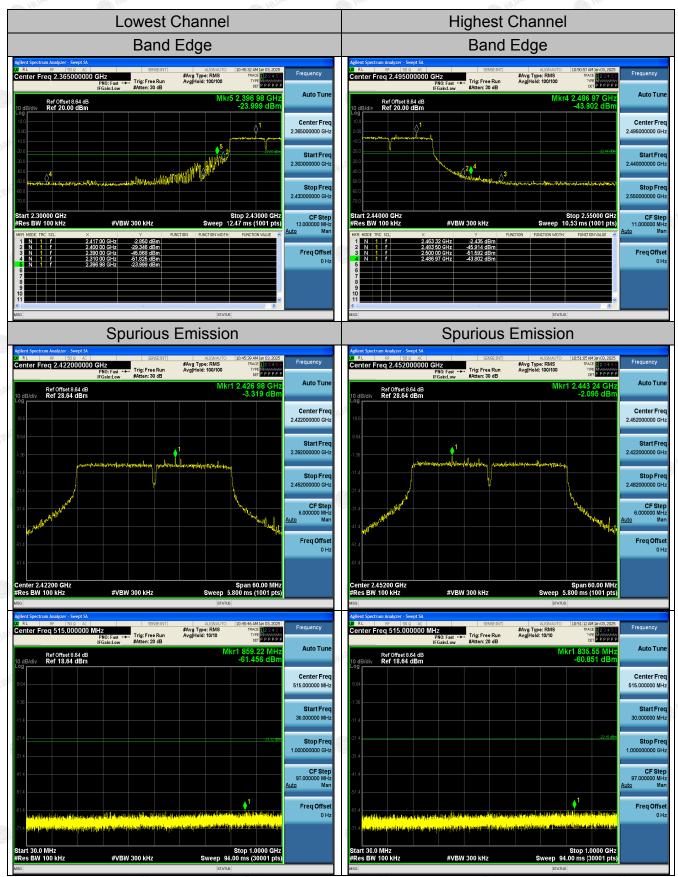


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802.11n (HT40) Modulation



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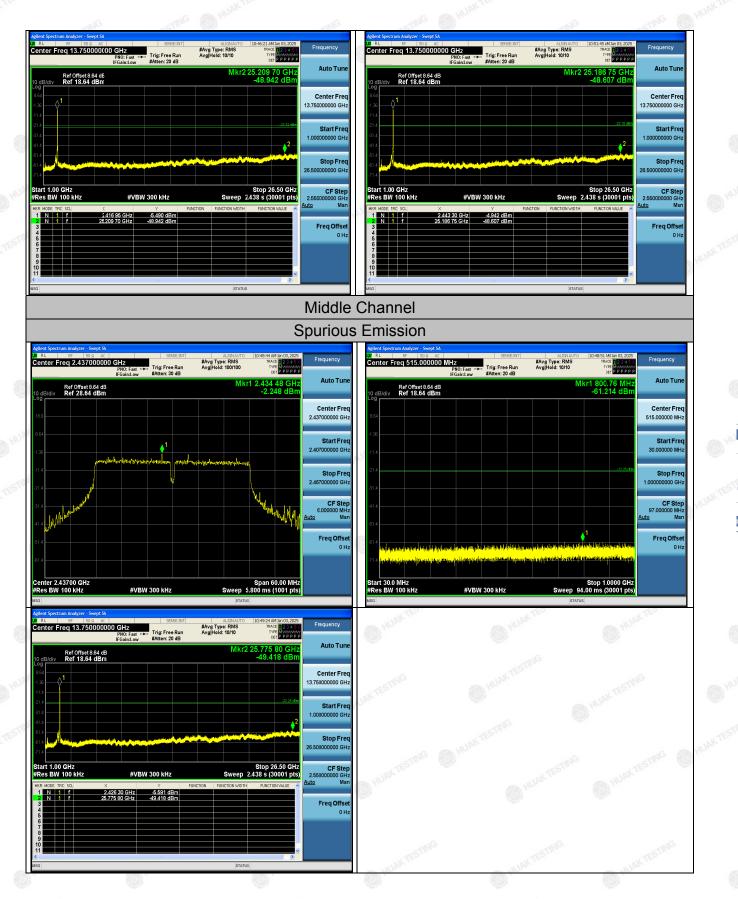
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4.7. Radiated Spurious Emission Measurement

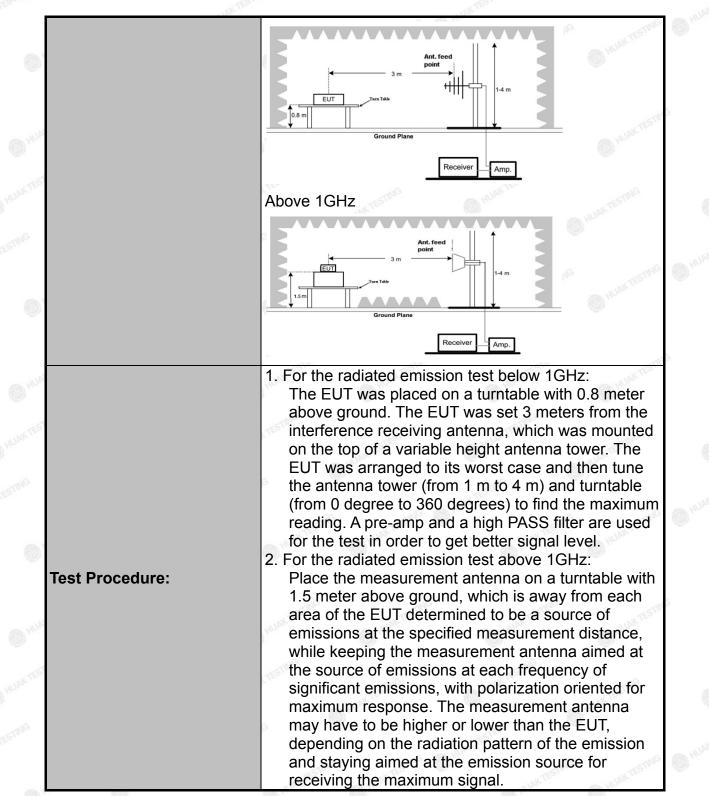
Test Specification

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10	0: 2013	(HUAN		C HUAN
Frequency Range:	9 kHz to 25 0	GHz		STING		
Measurement Distance:	3 m	TESTING	A HU	AKTE		TESTING
Antenna Polarization:	Horizontal &	Horizontal & Vertical				
Operation mode:	Transmitting	mode with	n modulat	ion		
	Frequency	Detector	RBW	VBW	STING	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	si-peak Valu
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz		si-peak Valu
·····	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Valu
	TING	Peak	MHz	3MHz	-	eak Value
	Above 1GHz	Peak	1MHz	10Hz		erage Value
	Frequen		Field Stre	/meter)	Measurement Distance (meters)	
	0.009-0.490		2400/F(KHz) 24000/F(KHz)		300	
			1	KHZ)	30 30	
	1.705-30		<u> </u>		3	
	30-88		150		3	
Limit:	88-216	200		TING	3	
Luunt.	Above 9	500	. U. V.	211	3	
		00	500	O HO!		
	Frequency		l Strength volts/meter)	Measure Distan (meter	ice	Detector
	Above 1GHz	HUAK IL	500			Average
			5000	3		Peak
Test setup:	For radiated	amissions 3 m Ture Take Ground Plan				UNK TESTING
	30MHz to 10	GHz				
182		TEST		TESIN		158

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Test results:	PASS
NG CONTRACTOR	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.
a man	 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.
0	 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 amiasian being measured:
AK TEST	 Read Level - Preamp Factor = Level 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
O)	 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 +

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Test Instruments

	Rad	iated Emission	Test Site (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Receiver	R&S	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025	
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 20, 2024	Feb. 19, 2025	
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 21, 2024	Feb. 20, 2026	
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 20, 2024	Feb. 19, 2025	
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 20, 2024	Feb. 19, 2025	
Preamplifier	Agilent	83051A	HKE-016	Feb. 20, 2024	Feb. 19, 2025	
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 21, 2024	Feb. 20, 2026	
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 21, 2024	Feb. 20, 2026	
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026	
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A	
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 20, 2024	Feb. 19, 2025	
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A	
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 20, 2024	Feb. 19, 2025	
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025	
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 21, 2024	Feb. 20, 2026	
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/ Instresting	man resimp O Hur	

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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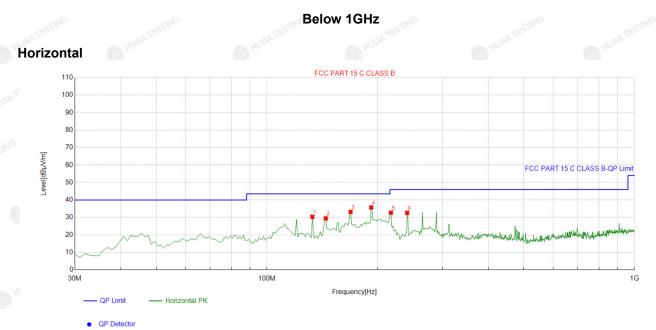


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Test Data

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



Suspected List Freq. Factor Limit Reading Level Margin Height Angle NO. Polarity [MHz] [dB] [dBµV/m] [dBµV/m] [dBµV/m] [dB] [cm] [°] 132.92292 -17.24 47.64 30.40 43.50 13.10 100 146 Horizontal 1 -18.32 47.82 2 144.57457 29.50 43.50 14.00 100 0 Horizontal 168.84884 3 -17.23 50.42 33.19 43.50 10.31 100 332 Horizontal -15.74 4 192.15215 51.48 35.74 43.50 7.76 100 Horizontal 293 -14.66 47.38 5 217.39739 32.72 46.00 13.28 100 208 Horizontal 240.70070 100 6 -13.63 46.28 32.65 46.00 13.35 38 Horizontal

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

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Suspected List

						_				
1		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
9) 	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
3-	1	40.680681	-13.83	46.84	33.01	40.00	6.99	100	98	Vertical
	2	120.3003	-16.19	50.51	34.32	43.50	9.18	100	300	Vertical
.G	3	144.57457	-18.32	53.15	34.83	43.50	8.67	100	347	Vertical
	4	168.84884	-17.23	50.50	33.27	43.50	10.23	100	89	Vertical
	5	192.15215	-15.74	48.14	32.40	43.50	11.10	100	181	Vertical
	6	216.42642	-14.69	46.14	31.45	46.00	14.55	100	253	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

2	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
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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	52.05	-3.64	48.41	74	o -25.59	peak
4824	40.67	-3.64	37.03	54	-16.97	AVG
7236	50.49	-0.95	49.54	74	-24.46	peak
7236	38.15	-0.95	37.2	54	-16.8	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	50.13	-3.64	46.49	74	o -27.51	peak
4824	38.29	-3.64	34.65	54	-19.35	AVG
7236	48.39	-0.95	47.44	74	-26.56	peak
7236	38.83	-0.95	37.88	54	-16.12	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
1	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
	4874	51.18	-3.51	47.67	74	-26.33	peak
14	4874	42.14	-3.51	38.63	54	-15.37	AVG
	7311	47.83	-0.82	47.01	74	-26.99	peak
	7311	39.69	-0.82	38.87	54	-15.13	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	50.33	-3.51	46.82	74	-27.18	peak
4874	40.35	-3.51	36.84	54	-17.16	AVG
7311	49.43	-0.82	48.61	74	-25.39	peak
7311	38.43	-0.82	37.61	54		AVG
Remark: Factor Level-Limit.	= Cable loss + Ant	tenna factor + A	Attenuator – Pream	nplifier; Level = I	Reading + Fac	tor; Margin =

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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	53.09	-3.43	49.66	74	-24.34	peak
4924	40.51	-3.43	37.08	54	-16.92	AVG
7386	47.72	-0.75	46.97	74	-27.03	peak
7386	40.01	-0.75	39.26	54	-14.74	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	52.99	-3.43	49.56	74	-24.44	peak
4924	39.54	-3.43	36.11	54	-17.89	AVG
7386	49.86	-0.75	49.11	74	-24.89	peak
7386	38.23	-0.75	37.48	54	-16.52	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	50.63	-3.64	46.99	74	-27.01	peak
4824	43.01	-3.64	39.37	54	-14.63	AVG
7236	49.04	-0.95	48.09	74	-25.91	peak
7236	37.52	-0.95	36.57	54	-17.43	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	50.38	-3.64	46.74	74	-27.26	peak
4824	41.37	-3.64	37.73	54	-16.27	AVG
7236	48.16	-0.95	47.21	74	-26.79	peak
7236	38.99	-0.95	38.04	54	-15.96	AVG

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MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Jimits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.16	-3.51	48.65	74	-25.35	peak
4874	39.31	-3.51	35.8	54	-18.2	AVG
7311	48.05	-0.82	47.23	74	-26.77	peak
7311	37.76	-0.82	36.94	54	-17.06	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.99	-3.51	48.48	74	-25.52	peak
4874 d	42.19	-3.51	38.68	54	-15.32	AVG
7311	45.29	-0.82	44.47	74	-29.53	peak
7311	39.36	-0.82	38.54	54	-15.46	AVG
	39.36 r = Cable loss + Ant	- STILL		-cSTI		_

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	o (dBµV/m)	(dBµV/m)	(dB)	Туре
4924	48.53	-3.43	45.1	74 🛞	-28.9	peak
4924	40.62	-3.43	37.19	54	-16.81	AVG
7386	51.24	-0.75	50.49	74 m ⁰⁴	-23.51	peak
7386	38.78	-0.75	38.03	54	-15.97	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	49.91	-3.43	46.48	74	-27.52	peak
4924	42.05	-3.43	38.62	54	-15.38	AVG
7386	49.98	-0.75	49.23	74	-24.77	peak
7386	41.46	-0.75	40.71	54	-13.29	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	51.21	-3.64	47.57	74 💧	-26.43	peak
of 4824	39.33	-3.64	35.69	54	-18.31	AVG
7236	50.89	-0.95	49.94	74	-24.06	peak
7236	39.81	-0.95	38.86	54	-15.14	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	48.79	-3.64	45.15	74	-28.85	peak
4824	38.29	-3.64	34.65	54	-19.35	AVG
7236	49.95	-0.95	49	74	-25	peak
7236	38.37	-0.95	37.42	54	-16.58	AVG

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FICATION

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	51.61	-3.51	48.10	74.00	-25.90	peak
4874	39.48	-3.51	35.97	54.00	-18.03	AVG
7311	47.59	-0.82	46.77	74.00	-27.23	peak
7311	38.57	-0.82	37.75	54.00	-16.25	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	49.67	-3.51	46.16	74.00	-27.84	peak
4874	42.37	-3.51	38.86	54.00	-15.14	AVG
7311	50.17	-0.82	49.35	74.00	-24.65	peak
7311	36.32	-0.82	35.50	54.00	-18.50	AVG

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	49.14	-3.43	45.71	74	-28.29	peak
4924	38.57	-3.43	35.14	54	-18.86	AVG
7386	50.67	-0.75	49.92	74	-24.08	peak
7386	38.85	-0.75	38.1	54	-15.9	AVG
		ATES'	38.1	ALLES'		_

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Turc
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.44	-3.43	49.01	74	-24.99	peak
4924	39.23	-3.43	35.8	54	-18.2	AVG
7386	50.03	-0.75	49.28	74	-24.72	peak
7386	36.44	-0.75	35.69	54		AVG
Remark: Factor Level-Limit.	r = Cable loss + Ant	enna factor +	Attenuator – Pream	plifier; Level = I	Reading + Fac	ctor; Margin =

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HE FIF

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turce
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	50.73	-3.63	47.1	74	-26.9	peak
4844	41.79	-3.63	38.16	54	-15.84	AVG
7266	47.95	-0.94	47.01	74	-26.99	peak
7266	39.77	-0.94	38.83	54	-15.17	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	D. L. L. TSIM
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	50.78	-3.63	47.15	74	-26.85	peak
4844	38.51	-3.63	34.88	54	-19.12	AVG
7266	48.34	-0.94	47.4	74	-26.6	peak
7266	39.46	-0.94	38.52	54	-15.48	AVG

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NG

PB PB

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

F	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
AKTE	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
Ola	4874	51.34	-3.51	47.83	74	-26.17	peak
2	4874	42.85	-3.51	39.34	54	-14.66	AVG
	7311	50.44	-0.82	49.62	74	-24.38	peak
	7311	38.62	-0.82	37.8	54	-16.2	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	D. L. L. TSIM
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	49.09	-3.51	45.58	74	-28.42	peak
4874	40.95	-3.51	37.44	54	-16.56	AVG
7311	46.65	-0.82	45.83	74	-28.17	peak
7311	38.56	-0.82	37.74	54	-16.26	AVG

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data das Tres
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4904	49.46	-3.43	46.03	74	-27.97	peak
4904	39.13	-3.43	35.7	54	-18.3	AVG
7356	47.55	-0.75	46.8	74	-27.2	peak
7356	35.67	-0.75	34.92	54	-19.08	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	52.35	-3.43	48.92	74	-25.08	peak
4904	42.73	-3.43	39.3	54	-14.7	AVG
7356	48.47	-0.75	47.72	74	-26.28	peak
7356	39.64	-0.75	38.89	54	-15.11	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

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	49.11	-5.81	43.3	74	-30.7	peak
2310.00	40.36	-5.81	34.55	54	-19.45	AVG
2390.00	47.85	-5.84	42.01	74	-31.99	peak
2390.00	39.16	-5.84	33.32	54	-20.68	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.22	-5.81	43.41	74	-30.59	peak
2310.00	40.74	-5.81	34.93	54	-19.07	AVG
2390.00	48.99	-5.84	43.15	74	-30.85	peak
2390.00	37.04	-5.84	31.2	si ⁶⁰ 54	-22.8	AVG

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ICATION

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	51.26	-5.81	45.45	74	-28.55	peak
2483.50	40.75	-5.81	34.94	54	-19.06	AVG
2500.00	50.56	-6.06	44.5	74	-29.5	peak
2500.00	38.15	-6.06	32.09	54	-21.91	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	52.54	-5.81	46.73	74	-27.27	peak
2483.50	41.68	-5.81	35.87	54	-18.13	AVG
2500.00	50.91	-6.06	44.85	74	-29.15	peak
2500.00	38.34	-6.06	32.28	54	-21.72	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	Data star Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Type
2310.00	47.88	-5.81	42.07	74 HUM	-31.93	peak
2310.00	39.91	-5.81	34.1	54	-19.9	AVG
2390.00	46.12	-5.84	40.28	74	-33.72	peak
2390.00	38.72	-5.84	32.88	54	-21.12	AVG

Vertical:

Reading Result	Factor	Emission Level	Limits 🧶	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	G
49.89	-5.81	44.08	74	-29.92	peak
42.23	-5.81	36.42	54	-17.58	AVG
52.53	-5.84	46.69	74	-27.31	peak
38.18	-5.84	32.34	54	-21.66	AVG
	(dBµV) 49.89 42.23 52.53	(dBµV) (dB) 49.89 -5.81 42.23 -5.81 52.53 -5.84	(dBµV) (dB) (dBµV/m) 49.89 -5.81 44.08 42.23 -5.81 36.42 52.53 -5.84 46.69	(dBµV) (dB) (dBµV/m) (dBµV/m) 49.89 -5.81 44.08 74 42.23 -5.81 36.42 54 52.53 -5.84 46.69 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) (dB) 49.89 -5.81 44.08 74 -29.92 42.23 -5.81 36.42 54 -17.58 52.53 -5.84 46.69 74 -27.31

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)	
[©] 2483.50	51.98	-5.65	46.33	74	-27.67	peak
2483.50	40.81	-5.65	35.16	54	-18.84	AVG
2500.00	47.12	-5.65	41.47	74	-32.53	peak
2500.00	38.69	-5.65	33.04	54	-20.96	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	51.37	-5.65	45.72	74 NOA	-28.28	peak
2483.50	39.82	-5.65	34.17	54	-19.83	AVG
2500.00	48.93	-5.65	43.28	74	-30.72	peak
2500.00	38.33	-5.65	32.68	54	-21.32	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)	
2310.00	51.17	-5.81	45.36	74	-28.64	peak
2310.00	42.41	-5.81	36.6	54	-17.4	AVG
2390.00	47.52	-5.84	^{41.68}	74	-32.32	peak
2390.00	39.98	-5.84	34.14	54	-19.86	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	51.76	-5.81	45.95	74	-28.05	peak
2310.00	42.42	-5.81	36.61	54	-17.39	AVG
2390.00	49.44	-5.84	43.6	74	-30.4	peak
2390.00	38.13	-5.84	32.29	54	-21.71	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	54.72	-5.65	49.07	74 ^{MUM}	-24.93	peak
2483.50	40.89	-5.65	35.24	54	-18.76	AVG
2500.00	48.55	-5.65	42.9	74	-31.1	peak
2500.00	39.27	-5.65	33.62	54	-20.38	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	52.36	-5.65	46.71	74	-27.29	peak
2483.50	40.42	-5.65	34.77	54	-19.23	AVG
2500.00	45.15	-5.65	39.5	74	-34.5	peak
2500.00	37.48	-5.65	31.83	54	-22.17	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	51.81	-5.81	46	74	-28	peak
2310.00	ESTACI I	-5.81	MAN RESTR	54	/	AVG
2390.00	49.69	-5.84	43.85	74	-30.15	peak
2390.00	A HUA	-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	54.22	-5.81	48.41	74 M ^{UM}	-25.59	peak
2310.00	/	-5.81		54	/ 🤇	AVG
2390.00	54.93	-5.84	49.09	74	-24.91	peak
2390.00	JAK TESTI	-5.84	S WAR TES W	54	LAK TSTING	AVG

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

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VCATIO,

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	52.19	-5.65	46.54	74	-27.46	peak
2483.50	/	-5.65	· /	54	/ 0	AVG
2500.00	50.17	-5.65	44.52	74	-29.48	peak
2500.00	HURKTER /	-5.65	August	54	- WAX TEST	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	50.98	-5.65	45.33	74	-28.67	peak
2483.50	- THE HUR	-5.65	NG /	54	1	AVG
2500.00	54.86	-5.65	49.21	74	-24.79	peak
2500.00	/	-5.65	1	54	1	AVG

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.

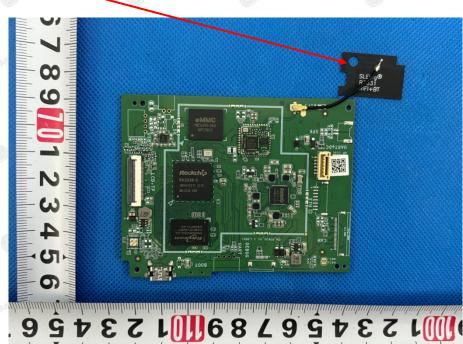
Refer to statement below for compliance.

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 Internal antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0.71dBi.

Antenna



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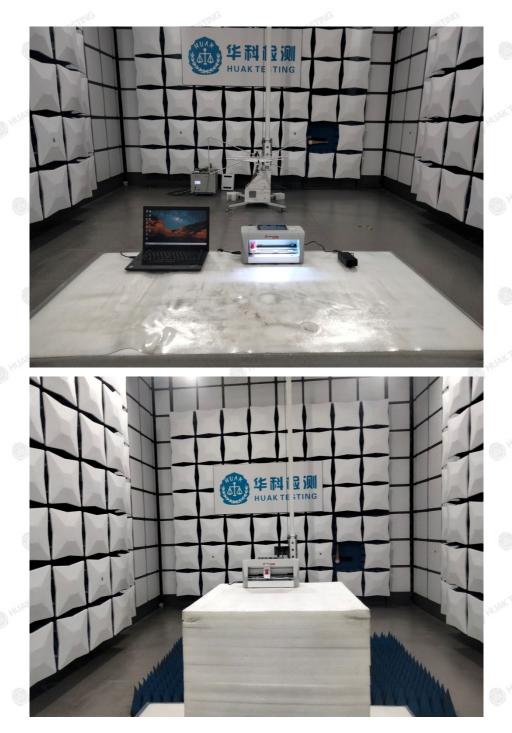
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TING

HK Beer

5. Photograph of Test

Radiated Emissions



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Conducted Emission



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IFICATION

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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