

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
Test Mode:	Transmitting mode with modulation
	 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
Test Procedure:	 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). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded provide the limit in the test report.
Test Result:	against the limit line in the operating frequency band. PASS

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		RF Te	est 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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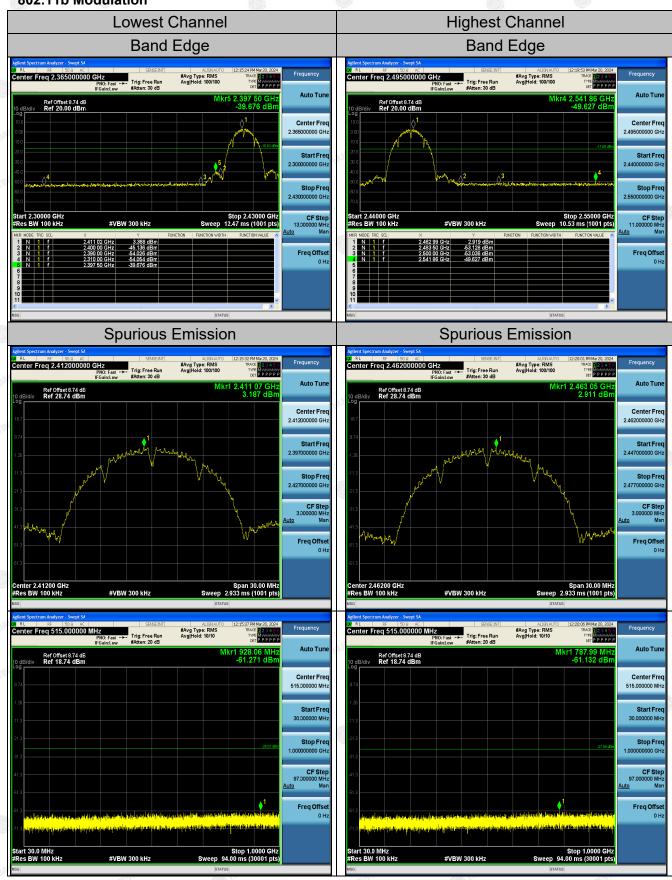
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Test Data





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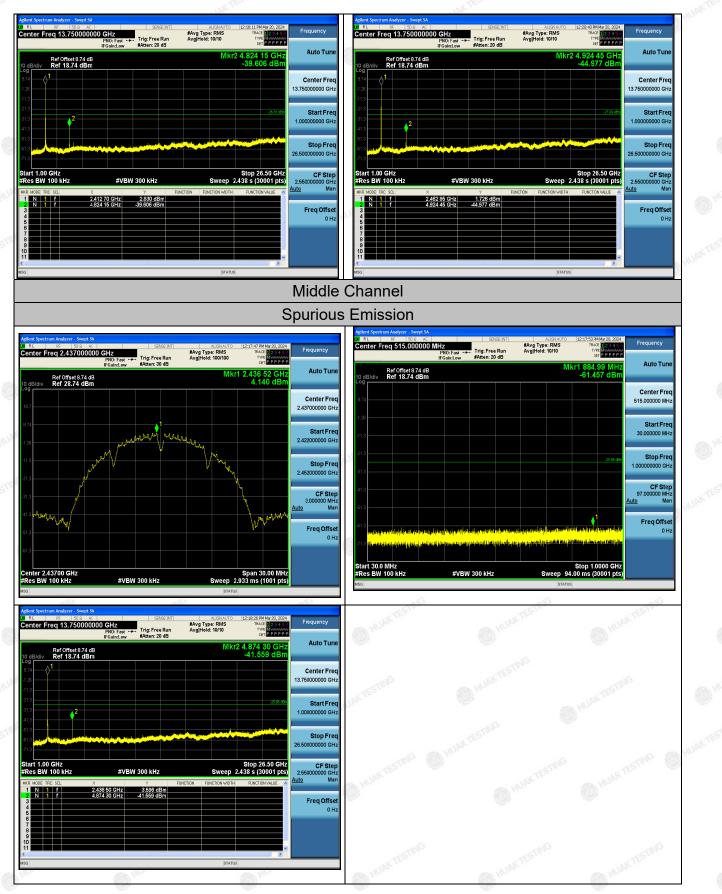
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Report No.: HK2403181203-1E

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802.11g Modulation



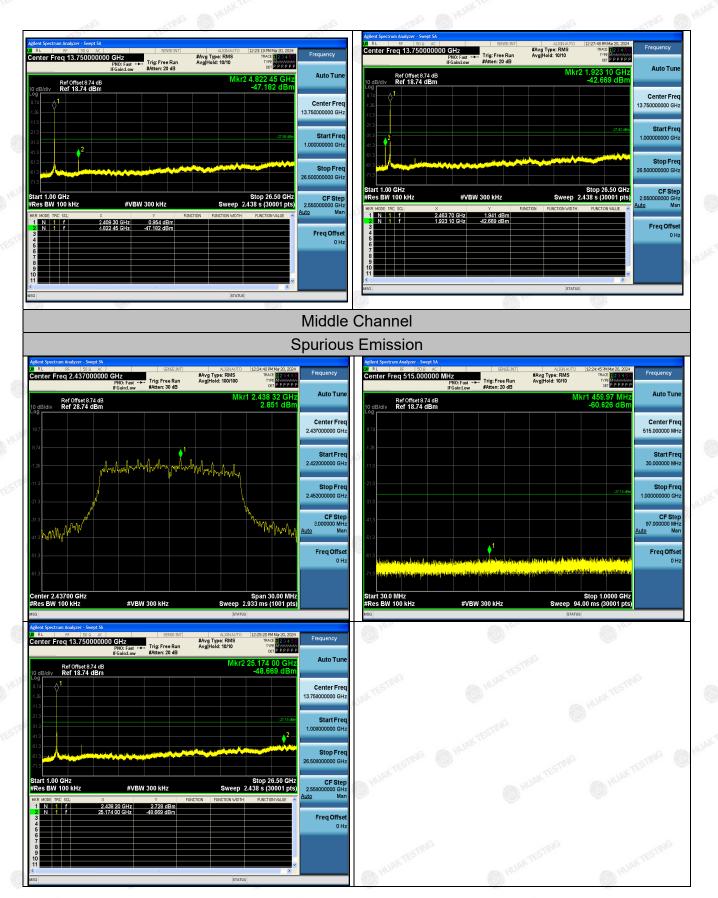
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802.11n (HT20) Modulation



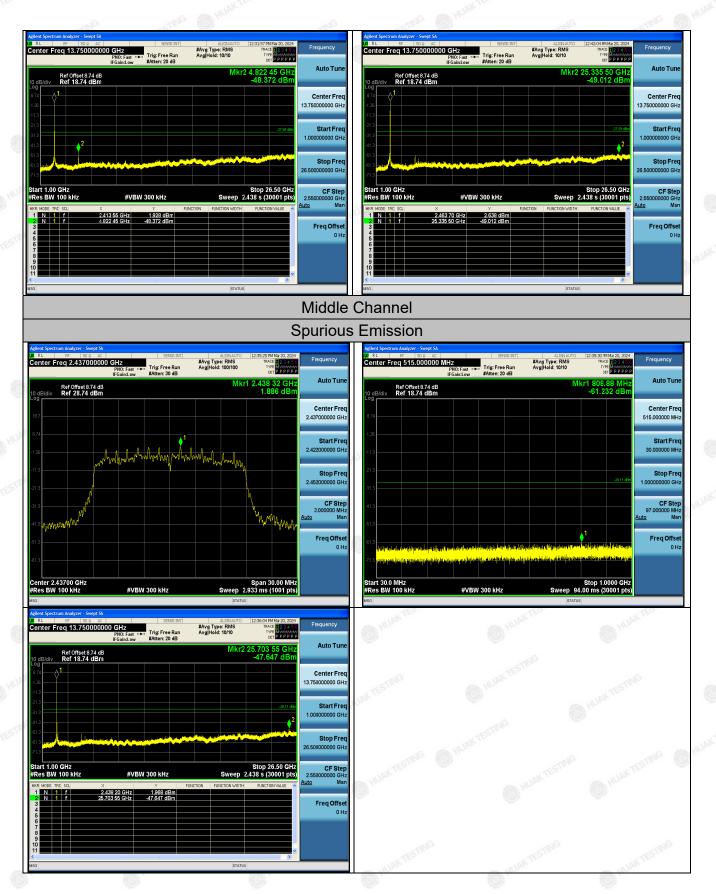
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802.11n (HT40) Modulation



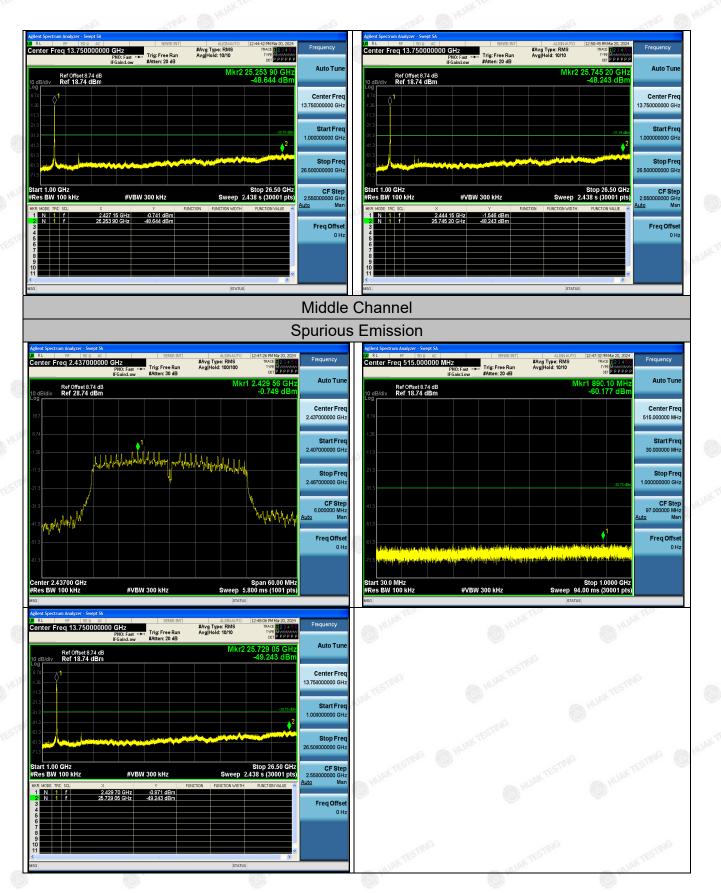
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4.7. Radiated Spurious Emission Measurement

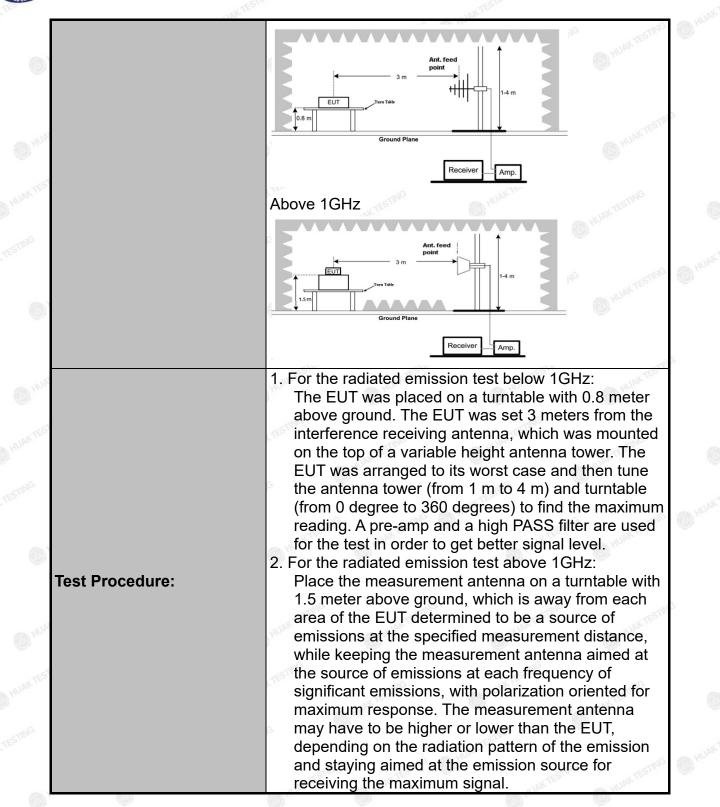
Test Specification

Test Requirement:	FCC Part15	C Sectio	n 1	5.209			
Test Method:	ANSI C63.10): 2013		0	HUAN		6 HUAN
Frequency Range:	9 kHz to 25 (GHz			TING		
Measurement Distance:	3 m	TESTING		AN HU	AK The		TESTING
Antenna Polarization:	Horizontal &	Vertical			.0	0	HOME
Operation mode:	Transmitting	mode w	vith r	nodulati	on		
	Frequency	Detecto	r	RBW	VBW	SUME	Remark
	9kHz- 150kHz	Quasi-pe	ak	200Hz	1kHz	Quas	si-peak Valu
Receiver Setup:	150kHz- 30MHz	Quasi-pe	ak	9kHz	30kHz	Quas	si-peak Valu
	30MHz-1GHz	Quasi-pe	ak	120KHz	300KHz	Quas	si-peak Valu
	TING	Peak	TING	1MHz	3MHz		eak Value
	Above 1GHz	Peak	2	1MHz	10Hz		erage Value
	Frequency 0.009-0.490		(1	Field Stre microvolts/ 2400/F(k	/meter) Dis		asurement nce (meters 300
	0.490-1.7	705		24000/F(30
	1.705-3			30			30
	30-88			100	120		3
	88-216	88-216		150			3
Limit:	216-960			200	1	STING	3
	Above 960			500	HUAK		3
	Frequency			trength ts/meter)	Measure Distan (mete	ance Detector	
	Above 1GHz	I MAN I	500		3		Average
			50	00	3		Peak
Test setup:	For radiated	emission 3 r Turs Take Ground I	m —				unk restring
	30MHz to 10	GHz	TING		TEST	G	

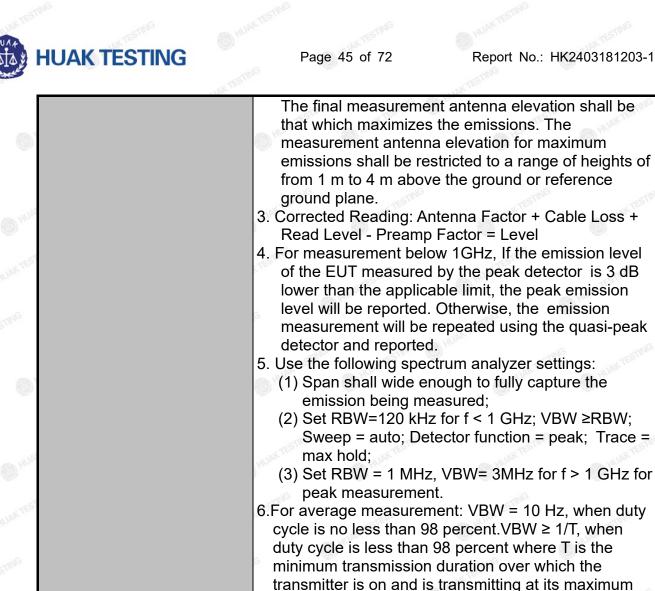
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PASS

Test results:

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power control level for the tested mode of operation.

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Test Instruments

	Rad	iated Emission	Test Site (966	5)	
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

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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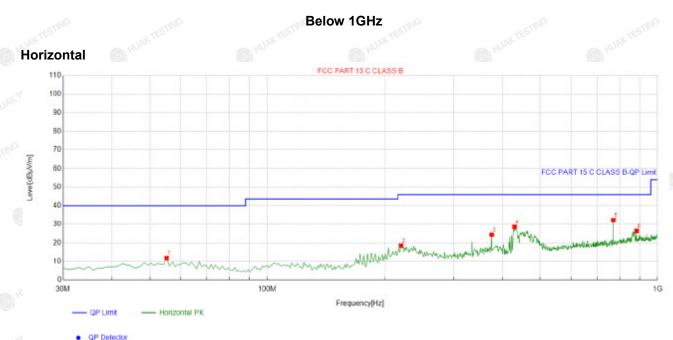
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Test Data

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



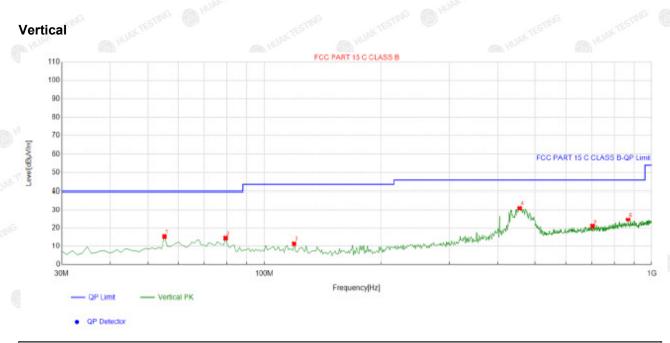
	Suspected List										
3.		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
2	1	55.245245	-14.32	26.09	11.77	40.00	28.23	100	352	Horizontal	
8	2	220.31031	-14.26	32.70	18.44	46.00	27.56	100	357	Horizontal	
	3	375.66566	-10.84	35.21	24.37	46.00	21.63	100	359	Horizontal	
	4	430.04004	-8.42	36.99	28.57	46.00	17.43	100	357	Horizontal	
	5	769.87988	-2.46	34.61	32.15	46.00	13.85	100	358	Horizontal	
R	6	883.48348	-0.85	27.29	26.44	46.00	19.56	100	357	Horizontal	

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

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Suspected List

Ŷ	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polority
Č.	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
[1	55.245245	-14.32	29.52	15.20	40.00	24.80	100	349	Vertical
	2	79.51952	-17.40	31.74	14.34	40.00	25.66	100	327	Vertical
2	3	119.32932	-15.50	26.79	11.29	43.50	32.21	100	327	Vertical
	4	456.25625	-8.37	39.48	31.11	46.00	14.89	100	359	Vertical
	5	703.85385	-3.68	24.57	20.89	46.00	25.11	100	338	Vertical
l	6	868.91891	-1.02	25.72	24.70	46.00	21.30	100	354	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)
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	nuc	-STING
- HUAK		
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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	53.35	-3.64	49.71	74	-24.29	peak
4824	41.91	-3.64	38.27	54	-15.73	AVG
7236	51.47	-0.95	50.52	74	-23.48	peak
7236	39.31	-0.95	38.36	54	-15.64	AVG

Vertical:

[©] Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	54.15	-3.64	50.51	74	-23.49	peak
4824	42.72	-3.64	39.08	54	-14.92	AVG
7236	50.94	-0.95	49.99	74	-24.01	peak
7236	40.73	-0.95	39.78	54	-14.22	AVG

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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)	Туре
4874	53.17	-3.51	49.66	74	-24.34	peak
4874	43.73	-3.51	40.22	54	-13.78	AVG
7311	50.38	-0.82	49.56	74	-24.44	peak
7311	39.86	-0.82	39.04	54	-14.96	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.59	-3.51	49.08	74	-24.92	peak
M ^G 4874	41.78	-3.51	38.27	54	-15.73	AVG
7311	51.67	-0.82	50.85	74 🔊	-23.15	peak
7311	40.45	-0.82	39.63	54		AVG

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

ading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
53.37	-3.43	49.94	74	-24.06	peak
42.81	-3.43	39.38	54	-14.62	AVG
50.80	-0.75	50.05	74	-23.95	peak
41.06	-0.75	40.31	54	-13.69	AVG
3	50.80	50.80 -0.75	50.80 -0.75 50.05	50.80 -0.75 50.05 74	50.80 -0.75 50.05 74 -23.95

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	53.73	-3.43	50.3	74	-23.7	peak
4924	41.33	-3.43	37.9	54	-16.1	AVG
7386	51.43	-0.75	50.68	74	-23.32	peak
7386	39.44	-0.75	38.69	54	-15.31	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 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	51.91	-3.64	48.27	74	-25.73	peak
4824	44.71	-3.64	41.07	54	-12.93	AVG
7236	51.34	-0.95	50.39	74	-23.61	peak
7236	39.41	-0.95	38.46	54	-15.54	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	53.54	-3.64	49.9	74	-24.1	peak
4824	41.19	-3.64	37.55	54	-16.45	AVG
7236	50.07	-0.95	49.12	74	-24.88	peak
7236	39.29	-0.95	38.34	54	-15.66	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	53.78	-3.51	50.27	74	-23.73	peak
4874	41.15	-3.51	37.64	54	-16.36	AVG
7311	49.11	-0.82	48.29	74	-25.71	peak
7311	39.97	-0.82	39.15	54	-14.85	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.59	-3.51	49.08	74	-24.92	peak
4874 shi	43.61	-3.51	40.1	54	-13.9	AVG
7311	49.23	-0.82	48.41	74	-25.59	peak
7311	41.67	-0.82	40.85	54	-13.15	AVG

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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	53.08	-3.43	49.65	74	-24.35	peak
4924	43.14	-3.43	39.71	54	-14.29	AVG
7386	51.98	-0.75	51.23	74 m ⁰⁴	-22.77	peak
7386	40.78	-0.75	40.03	54	-13.97	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	53.47	-3.43	50.04	74	-23.96	peak
4924	42.19	-3.43	38.76	54	-15.24	AVG
7386	50.84	-0.75	50.09	74	-23.91	peak
7386	41.33	-0.75	40.58	54	-13.42	AVG

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 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:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	[⊮] (dBµV/m)	(dB)	Туре
53.67	-3.64	50.03	74	-23.97	peak
43.54	-3.64	39.9	54	-14.1	AVG
51.52	-0.95	50.57	74	-23.43	peak
41.40	-0.95	40.45	54	-13.55	AVG
	(dBµV) 53.67 43.54 51.52	(dBµV) (dB) 53.67 -3.64 43.54 -3.64 51.52 -0.95	(dBµV) (dB) (dBµV/m) 53.67 -3.64 50.03 43.54 -3.64 39.9 51.52 -0.95 50.57	(dBµV) (dB) (dBµV/m) (dBµV/m) 53.67 -3.64 50.03 74 43.54 -3.64 39.9 54 51.52 -0.95 50.57 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 53.67 -3.64 50.03 74 -23.97 43.54 -3.64 39.9 54 -14.1 51.52 -0.95 50.57 74 -23.43

Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	^{,⊚} (dBµV/m)	(dB)	Туре
4824	51.47	-3.64	47.83	74	-26.17	peak
4824	39.73	-3.64	36.09	54	-17.91	AVG
7236	49.48	-0.95	48.53	74	-25.47	peak
7236	38.92	-0.95	37.97	54	-16.03	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	52.69	-3.51	49.18	74.00	-24.82	peak
4874	42.21	-3.51	38.70	54.00	-15.30	AVG
7311	49.56	-0.82	48.74	74.00	-25.26	peak
7311	40.47	-0.82	39.65	54.00	-14.35	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.84	-3.51	48.33	74.00	-25.67	peak
4874	45.92	-3.51	42.41	54.00	-11.59	AVG
7311	51.04	-0.82	50.22	74.00	-23.78	peak
7311	39.82	-0.82	39.00	54.00	-15.00	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	53.66	-3.43	50.23	74	-23.77	peak
4924	42.31	-3.43	38.88	54	-15.12	AVG
7386	52.96	-0.75	52.21	74	-21.79	peak
7386	40.27	-0.75	39.52	54	-14.48	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 Turce
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	53.78	-3.43	50.35	74	-23.65	peak
4924	42.26	-3.43	38.83	54	-15.17	AVG
7386	51.69	-0.75	50.94	74	-23.06	peak
7386	39.24	-0.75	38.49	54	-15.51	AVG
	39.24	-csm/G		~51	Pla	

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Trace
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	52.46	-3.63	48.83	74	-25.17	peak
4844	42.32	-3.63	38.69	54	-15.31	AVG
7266	50.91	-0.94	49.97	74	-24.03	peak
7266	41.28	-0.94	40.34	54	-13.66	AVG
	in the		·	A AND HOME		16

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	imits	Margin	Data dan Tamé
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	53.76	-3.63	50.13	74	-23.87	peak
4844	41.80	-3.63	38.17	54	-15.83	AVG
7266	51.03	-0.94	50.09	74	-23.91	peak
7266	41.63	-0.94	40.69	54	-13.31	AVG
CTH42	45TH -		STIME FST		-CITY'S	45

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	Datastar
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	53.6	-3.51	50.09	74	-23.91	peak
4874	43.7	-3.51	40.19	54	-13.81	AVG
7311	51.55	-0.82	50.73	74	-23.27	peak
7311	41.64	-0.82	40.82	54	-13.18	AVG
	ING AN HO			NG AN HO		GIG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	imits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4874	51.02	-3.51	47.51	74	-26.49	peak
4874	42.35	-3.51	38.84	54	-15.16	AVG
7311	48.91	-0.82	48.09	74	-25.91	peak
7311	41.11	-0.82	40.29	54	-13.71	AVG
CTRV	45 ¹¹		STIME TEST		CITIVE	1ES T

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	Detector Turc
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
53.17	-3.43	49.74	74	-24.26	peak
41.63	-3.43	38.2	54	-15.8	AVG
51.40	-0.75	50.65	74	-23.35	peak
39.28	-0.75	38.53	54	-15.47	AVG
	(dBµV) 53.17 41.63 51.40	(dBµV) (dB) 53.17 -3.43 41.63 -3.43 51.40 -0.75	(dBµV) (dB) (dBµV/m) 53.17 -3.43 49.74 41.63 -3.43 38.2 51.40 -0.75 50.65	(dBµV) (dB) (dBµV/m) (dBµV/m) 53.17 -3.43 49.74 74 41.63 -3.43 38.2 54 51.40 -0.75 50.65 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 53.17 -3.43 49.74 74 -24.26 41.63 -3.43 38.2 54 -15.8 51.40 -0.75 50.65 74 -23.35

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
4904	53.15	-3.43	49.72	74	-24.28	peak
4904	43.67	-3.43	40.24	54	-13.76	AVG
7356	51.62	-0.75	50.87	74	-23.13	peak
7356	41.13	-0.75	40.38	54	-13.62	AVG
WTED	ALAN	a de	TES		W TES	ALAN

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 Typ
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	52.56	-5.81	46.75	74	-27.25	peak
2310.00	42.19	-5.81	36.38	54	-17.62	AVG
2390.00	50.47	-5.84	44.63	74	-29.37	peak
2390.00	39.23	-5.84	33.39	54	-20.61	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	52.05	-5.81	46.24	74	-27.76	peak
2310.00	42.84	-5.81	37.03	54	-16.97	AVG
2390.00	51.01	-5.84	45.17	74	-28.83	peak
2390.00	39.06	-5.84	33.22	54	-20.78	AVG

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VCATION.

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	52.77	-5.81	46.96	74	-27.04	peak
2483.50	42.53	-5.81	36.72	54	-17.28	AVG
2500.00	51.69	-6.06	45.63	74	-28.37	peak
2500.00	40.38	-6.06	34.32	54	-19.68	AVG

Vertical:

00	11.11				
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
54.73	-5.81	48.92	74	-25.08	peak
44.14	-5.81	38.33	54	-15.67	AVG
52.69	-6.06	46.63	74	-27.37	peak
42.46	-6.06	36.4	54	-17.6	AVG
	(dBµV) 54.73 44.14 52.69	(dBµV) (dB) 54.73 -5.81 44.14 -5.81 52.69 -6.06	(dBµV) (dB) (dBµV/m) 54.73 -5.81 48.92 44.14 -5.81 38.33 52.69 -6.06 46.63	(dBµV) (dB) (dBµV/m) (dBµV/m) 54.73 -5.81 48.92 74 44.14 -5.81 38.33 54 52.69 -6.06 46.63 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 54.73 -5.81 48.92 74 -25.08 44.14 -5.81 38.33 54 -15.67 52.69 -6.06 46.63 74 -27.37

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	51.84	-5.81	46.03	74 w ^M	-27.97	peak
2310.00	43.16	-5.81	37.35	54	-16.65	AVG
2390.00	49.47	-5.84	43.63	74	-30.37	peak
2390.00	40.07	-5.84	34.23	54	-19.77	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 🕚	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.21	-5.81	47.4	74	-26.6	peak
2310.00	45.04	-5.81	39.23	54	-14.77	AVG
2390.00	51.73	-5.84	45.89	74	-28.11	peak
2390.00	40.46	-5.84	34.62	54	-19.38	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	54.18	-5.65	48.53	74	-25.47	peak
2483.50	43.33	-5.65	37.68	54	-16.32	AVG
2500.00	49.63	-5.65	43.98	74	-30.02	peak
2500.00	38.86	-5.65	33.21	54	-20.79	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	53.31	-5.65	47.66	74	-26.34	peak
2483.50	41.82	-5.65	36.17	54	-17.83	AVG
2500.00	52.97	-5.65	47.32	74	-26.68	peak
2500.00	41.24	-5.65	35.59	54	-18.41	AVG

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

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IΕ

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	52.71	-5.81	46.9	74	-27.1	peak
2310.00	43.98	-5.81	38.17	54	-15.83	AVG
2390.00	49.68	-5.84	43.84	74	-30.16	peak
2390.00	41.38	-5.84	35.54	54	-18.46	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.56	-5.81	47.75	74	-26.25	peak
2310.00	43.26	-5.81	37.45	54	-16.55	AVG
2390.00	51.12	-5.84	45.28	74	-28.72	peak
2390.00	40.54	-5.84	34.7	54	-19.3	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	54.63	-5.65	48.98	74	-25.02	peak
2483.50	41.55	-5.65	35.9	54	-18.1 🧶	AVG
2500.00	51.68	-5.65	46.03	74	-27.97	peak
2500.00	40.68	-5.65	35.03	54	-18.97	AVG

Vertical:

1 Par	NAK TEL	AK TES	AK TEL		AK The	AK TE
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2483.50	53.11	-5.65	47.46	74	-26.54	peak
2483.50	41.19	-5.65	35.54	54	-18.46	AVG
2500.00	48.62	-5.65	42.97	74	-31.03	peak
2500.00	40.26	-5.65	34.61	54	-19.39	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)	0
2310.00	55.10	-5.81	49.29	74	-24.71	peak
2310.00	1	-5.81	- WAY ESTIN	54	/	AVG
2390.00	52.13	-5.84	46.29	74	-27.71	peak
2390.00	HUAC	-5.84	/	54	/	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
₆ (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	56.48	-5.81	50.67	74 HUM	-23.33	peak
2310.00	1	-5.81	More I	54	1 🔘	AVG
2390.00	57.41	-5.84	51.57	74	-22.43	peak
2390.00	LANTESTIN /	-5.84	S ONO	54	AK TSTING	AVG

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CATION

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	54.67	-5.65	49.02	74	-24.98	peak
2483.50	/	-5.65	· · · · · · · · · · · · · · · · · · ·	54	/ 🤍	AVG
2500.00	51.58	-5.65	45.93	74	-28.07	peak
2500.00	HUAKTE /	-5.65	Augurte	54	- HUAK TES	AVG

Vertical:

15	HO.	AND HO	HU.	100	30.	HU.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	AK TESTING
2483.50	52.27	-5.65	46.62	74	-27.38	peak
2483.50	HUA HUA	-5.65	1	54	1	AVG
2500.00	58.21	-5.65	52.56	74	-21.44	peak
2500.00	/	-5.65	/	54	I	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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4.8. 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 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 -0.58dBi..

Antenna

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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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