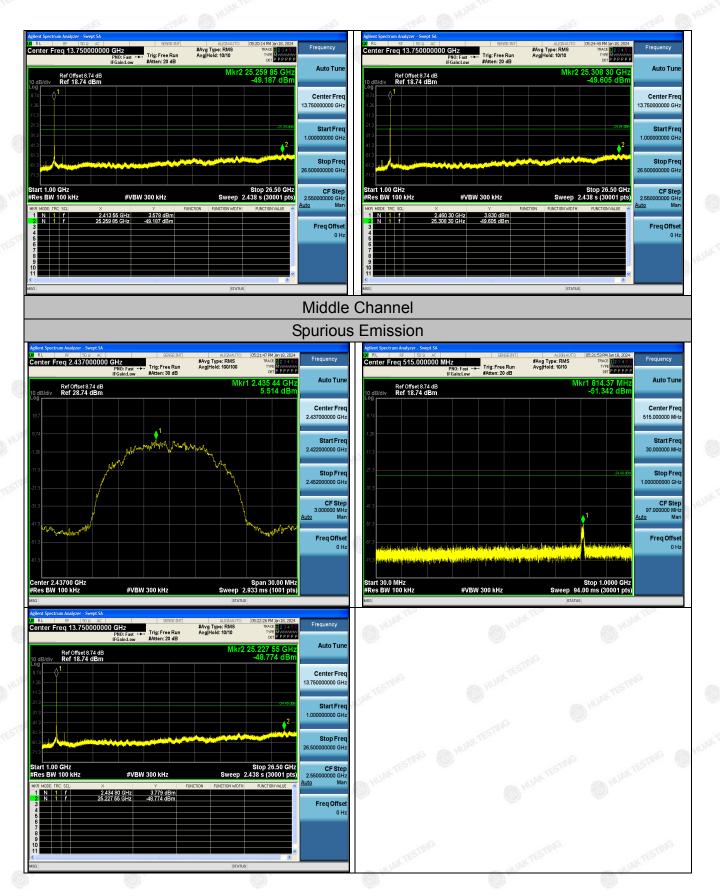


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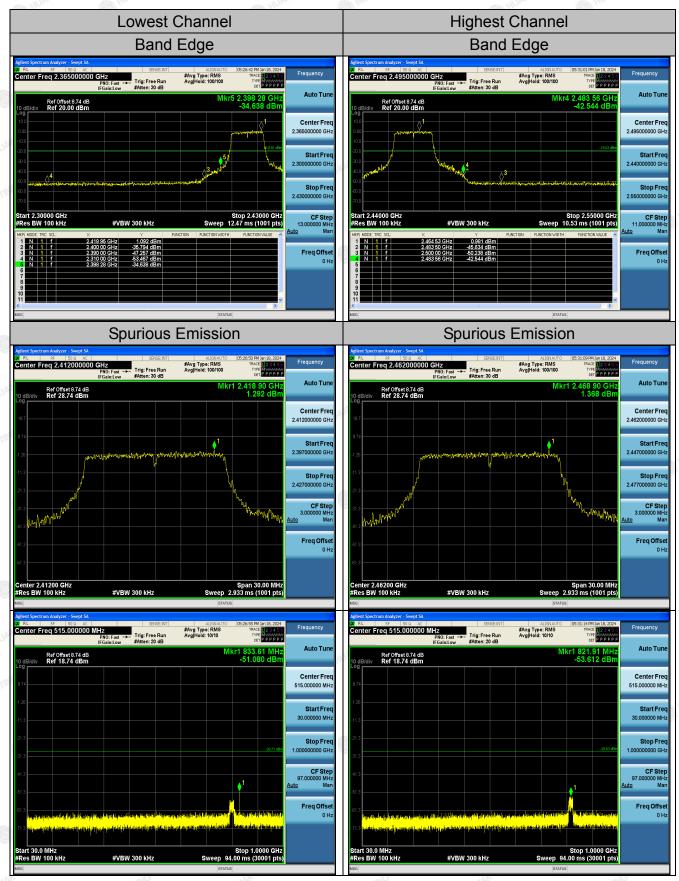
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HET ⊢

802.11g Modulation



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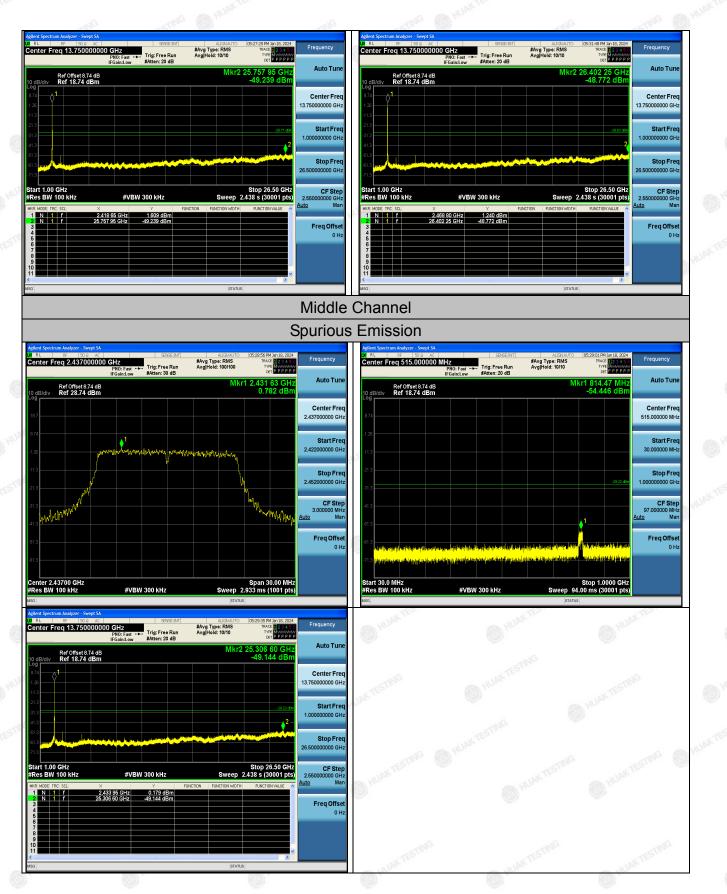
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NG

IE.



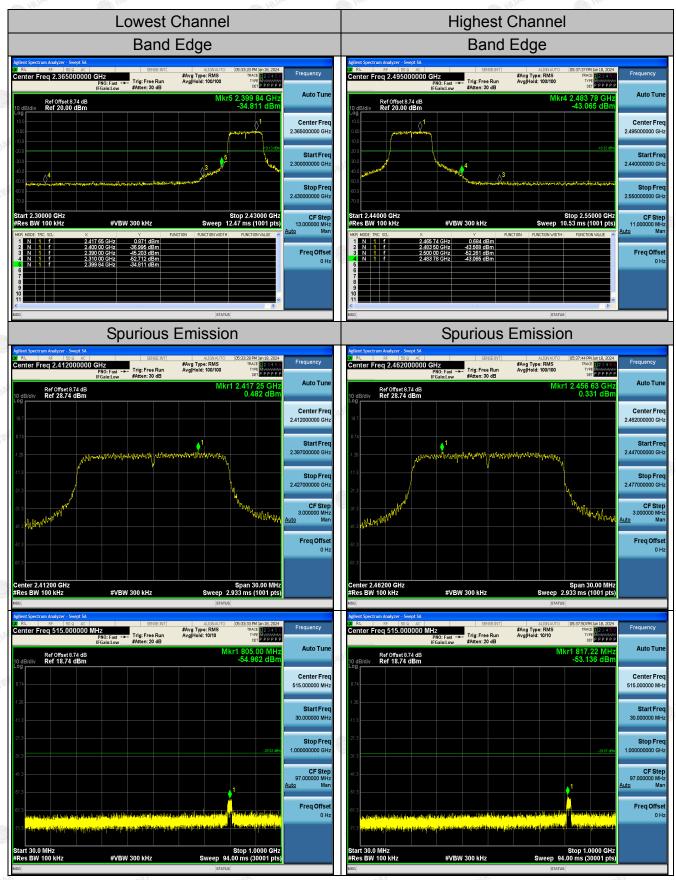
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802.11n (HT20) Modulation

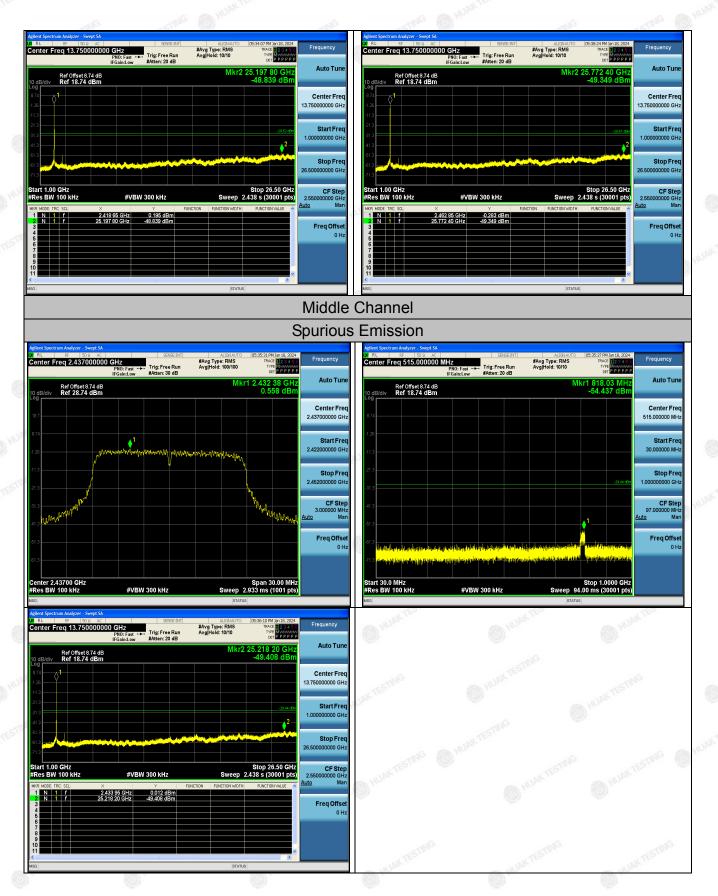


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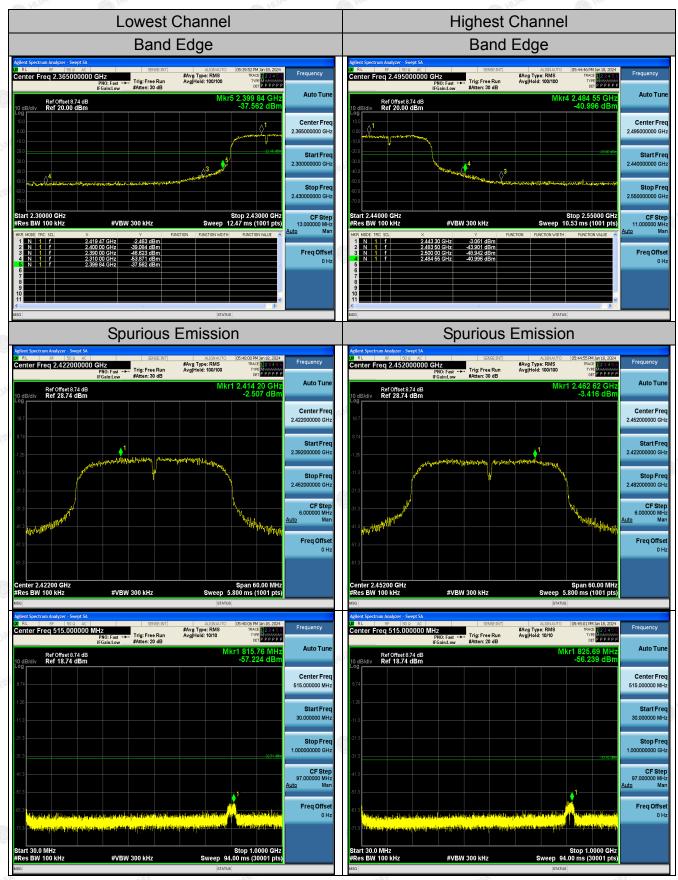
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FICATION

802.11n (HT40) Modulation

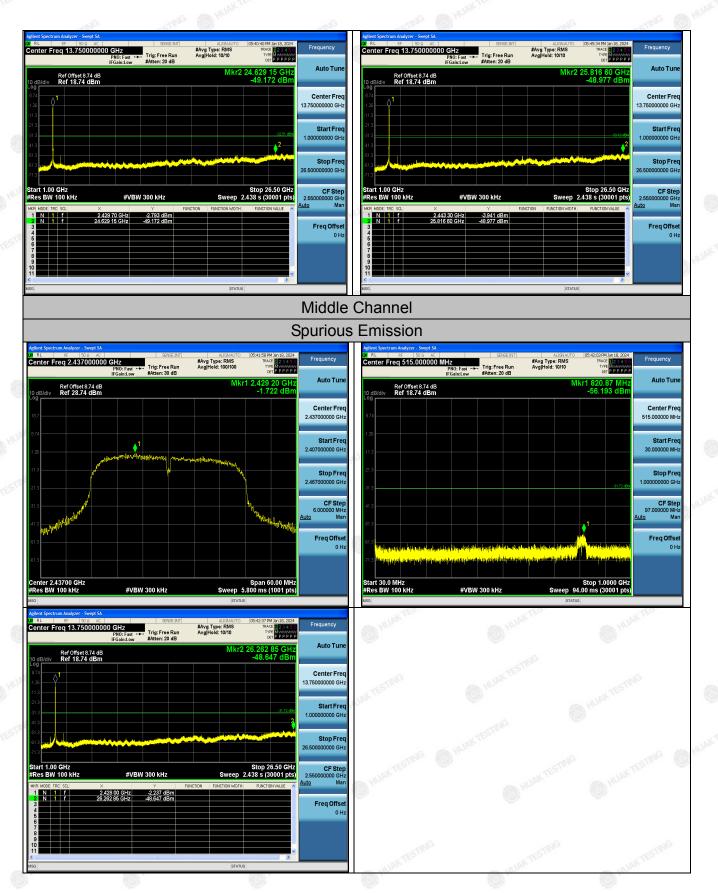


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4.6. Radiated Spurious Emission Measurement

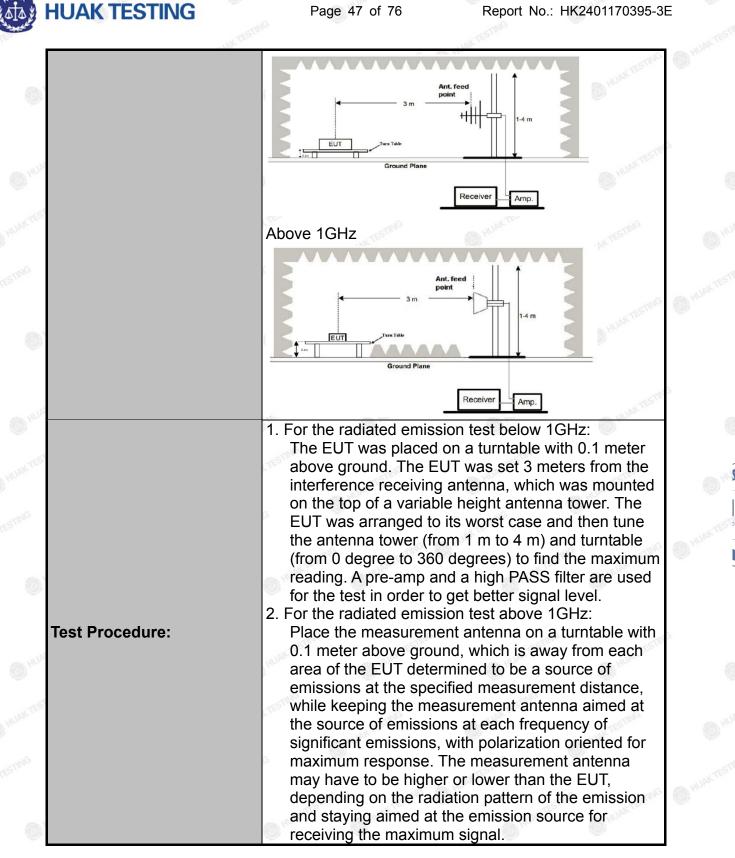
Test Specification

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10): 2013		HUAN		O HUAN
Frequency Range:	9 kHz to 25 (GHz		TING		
Measurement Distance:	3 m	TESTING	A HU	AKTES		" TESTING
Antenna Polarization:	Horizontal &	Vertical		.6	O`	HOPE
Operation Mode:	Transmitting	mode wi	th modulat	ion		
	Frequency	Detector	RBW	VBW		Remark
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-pea Quasi-pea		1kHz 30kHz		si-peak Value si-peak Value
	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quas	i-peak Value
	Above 1GHz	Peak	M 1MHz	3MHz	Pe	eak Value
		Peak	1MHz	10Hz	Ave	erage Value
	Frequen	ю	Field Stre (microvolts.	C C		asurement nce (meters)
	0.009-0.4		2400/F(ł		300	
	0.490-1.7		24000/F(KHz)	100 N	30
	1.705-30 30-88		30	NG	O	30
	88-216		<u>100</u> 150			<u>3</u> 3
Limit:	216-960		200		TING	3
	Above 9	500			3	
		Ŷ		0		Ś
	Frequency		ld Strength ovolts/meter)	Measurement Distance (meters)		Detector
	All and All	AND HALL	500		,	Average
	Above 1GHz	Z	5000	3		Peak
Test Setup:	For radiated	3 m Tura Tak Ground Plan		×tenna C↑ ↓	10	

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Report No.: HK2401170395-3E



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T ovi



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

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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. 17, 2023	Feb. 16, 2024
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	Feb. 16, 2024
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	Feb. 16, 2024
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	Feb. 16, 2024
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 17, 2023	Feb. 16, 2024
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	Feb. 16, 2024
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 17, 2023	Feb. 16, 2024
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 17, 2023	Feb. 16, 2024
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 17, 2023	Feb. 16, 2024

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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	Rad	iated Emission	Test Site (960	6)	
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

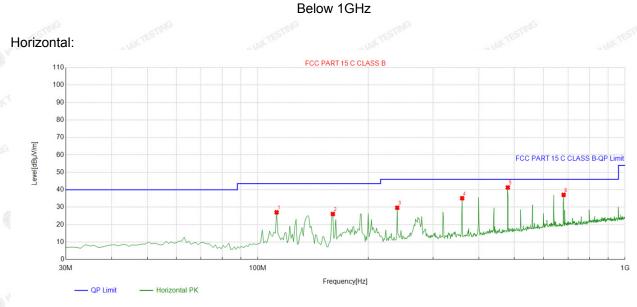
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Test Data

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



QP Detector

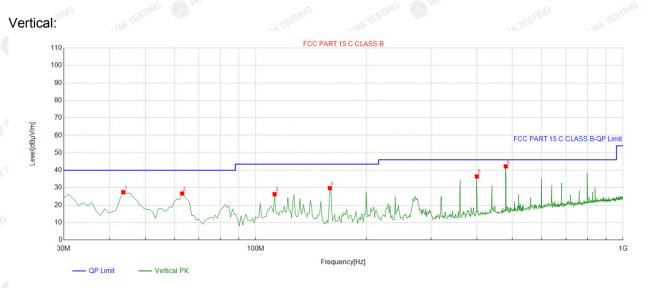
3	Suspe	eted List									
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	112.53253	-15.10	42.16	27.06	43.50	16.44	100	126	Horizontal	
	2	160.11011	-17.27	43.38	26.11	43.50	17.39	100	270	Horizontal	
	3	239.72973	-13.31	43.00	29.69	46.00	16.31	100	218	Horizontal	
	4	360.13013	-10.97	46.10	35.13	46.00	10.87	100	323	Horizontal	
	5	479.55956	-7.79	49.08	41.29	46.00	4.71	100	250	Horizontal	
	6	680.55055	-4.05	41.13	37.08	46.00	8.92	100	276	Horizontal	

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

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	Suspe	cted List								
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
9	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
3	1	43.593594	-15.10	42.52	27.42	40.00	12.58	100	44	Vertical
8	2	63.013013	-14.38	41.06	26.68	40.00	13.32	100	343	Vertical
	3	112.53253	-15.10	41.40	26.30	43.50	17.20	100	72	Vertical
3	4	159.13913	-17.21	46.95	29.74	43.50	13.76	100	275	Vertical
	5	399.93994	-9.45	45.90	36.45	46.00	9.55	100	256	Vertical
	6	479.55956	-7.79	50.00	42.21	46.00	3.79	100	258	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

^D Detecto

	County	San P	Charles Charles
	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
STA		AKTESTA"	averesting
	NK TESTI	- AKTESTIC	HOP IN TESTIC
	O ^{HD.}	0 ¹²	0 ***
			TESTING

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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IK PB

Above 1GHz

Radiated Emission Test

LOW CH1 (802.11b Mode)/2412

Horizontal:

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nonzontai.	an free	ALL HU	100 March 100		1 m	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	57.12	-3.64	53.48	74	-20.52	peak
4824	44.56	-3.64	40.92	54	-13.08	AVG
7236	52.81	-0.95	51.86	74	-22.14	peak
7236	41.33	-0.95	40.38	54	-13.62	AVG

Vertical:	HUAK	HUAR	HUAN	0	HUAR	HUAR
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.11	-3.64	52.47	74	-21.53	peak
4824	42.38	-3.64	38.74	54	-15.26	AVG
7236	54.29	-0.95	53.34	74	-20.66	peak
7236	40.31	-0.95	39.36	54	-14.64	AVG

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MID CH6 (802.11b Mode)/2437

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Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
55.06	-3.51	51.55	74	-22.45	peak
43.89	-3.51	40.38	54	-13.62	AVG
54.35	-0.82	53.53	74	-20.47	peak
41.29	-0.82	40.47	54	-13.53	AVG
	(dBµV) 55.06 43.89 54.35	(dBµV) (dB) 55.06 -3.51 43.89 -3.51 54.35 -0.82	(dBµV) (dB) (dBµV/m) 55.06 -3.51 51.55 43.89 -3.51 40.38 54.35 -0.82 53.53	(dBµV) (dB) (dBµV/m) (dBµV/m) 55.06 -3.51 51.55 74 43.89 -3.51 40.38 54 54.35 -0.82 53.53 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 55.06 -3.51 51.55 74 -22.45 43.89 -3.51 40.38 54 -13.62 54.35 -0.82 53.53 74 -20.47

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

Vertical:		O HO.	0.		O 10.	0.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	54.08	-3.51	50.57	74	-23.43	peak
4874	40.17	-3.51	36.66	54	-17.34	AVG
7311	50.59	-0.82	49.77	74	-24.23	peak
7311	40.46	-0.82	39.64	54	-14.36	AVG

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HIGH CH11 (802.11b Mode)/2462

Horizontal:		Ś	~			~
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	55.29	-3.43	51.86	74	-22.14	peak
4924	46.81	-3.43	43.38	54	-10.62	AVG
7386	51.03	-0.75	50.28	74	-23.72	peak
7386	42.56	-0.75	41.81	54	-12.19	AVG

Vertical:

vertical:						
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	53.44	-3.43	50.01	74	-23.99	peak
4924	46.95	-3.43	43.52	54	-10.48	AVG
7386	51.08	-0.75	50.33	74	-23.67	peak
7386	42.31	-0.75	41.56	54	-12.44	AVG

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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FICATION

LOW CH1 (802.11g Mode)/2412

Horizontal:	9		w.		9	e
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.57	-3.64	48.93	74	-25.07	peak
4824	42.82	-3.64	39.18	54	-14.82	AVG
7236	51.19	-0.95	50.24	74	-23.76	peak
7236	39.17	-0.95	38.22	54	-15.78	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss –	Pre-amplifier: Lev	el = Reading +	Factor: Margir	n = Level-

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

Vertical:	0	OHUN	0		O HOM	0
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.23	-3.64	48.59	74	-25.41	peak
4824	41.49	-3.64	37.85	54	-16.15	AVG
7236	51.76	-0.95	50.81	74	-23.19	peak
7236	40.81	-0.95	39.86	54	-14.14	AVG
Remark: Factor Limit.	r = Antenna Factor	+ Cable Loss -	- Pre-amplifier; Leve	el = Reading +	Factor; Margin	n = Level-

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MID CH6 (802.11g Mode)/2437

Horizontal:	~	w.			9	w.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	56.34	-3.51	52.83	74	-21.17	peak
4874	44.25	-3.51	40.74	54	-13.26	AVG
7311	53.73	-0.82	52.91	74	-21.09	peak
7311	40.96	-0.82	40.14	54	-13.86	AVG

Vertical:	HUAK	HUAK	HUAN		HUAKTEN	HUAK
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	55.68	-3.51	52.17	74	-21.83	peak
4874	45.49	-3.51	41.98	54	-12.02	AVG
7311	52.91	-0.82	52.09	74	-21.91	peak
7311	42.84	-0.82	42.02	54	-11.98	AVG
Remark: Factor Limit.	= Antenna Factor +	Cable Loss	– Pre-amplifier; Lev	el = Reading +	Factor; Margin =	Level-

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HIGH CH11 (802.11g Mode)/2462

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Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
55.01	-3.43	51.58	74	-22.42	peak
43.25	-3.43	39.82	54	-14.18	AVG
54.19	-0.75	53.44	74	-20.56	peak
40.38	-0.75	39.63	54	-14.37	AVG
	(dBµV) 55.01 43.25 54.19 40.38	(dBµV) (dB) 55.01 -3.43 43.25 -3.43 54.19 -0.75	(dBµV) (dB) (dBµV/m) 55.01 -3.43 51.58 43.25 -3.43 39.82 54.19 -0.75 53.44 40.38 -0.75 39.63	(dBµV) (dB) (dBµV/m) (dBµV/m) 55.01 -3.43 51.58 74 43.25 -3.43 39.82 54 54.19 -0.75 53.44 74 40.38 -0.75 39.63 54	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 55.01 -3.43 51.58 74 -22.42 43.25 -3.43 39.82 54 -14.18 54.19 -0.75 53.44 74 -20.56 40.38 -0.75 39.63 54 -14.37

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

	0	0		0	0
Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
56.07	-3.43	52.64	74	-21.36	peak
41.22	-3.43	37.79	54	-16.21	AVG
50.18	-0.75	49.43	74	-24.57	peak
43.21	-0.75	42.46	54	-11.54	AVG
	(dBµV) 56.07 41.22 50.18	(dBµV) (dB) 56.07 -3.43 41.22 -3.43 50.18 -0.75	(dBµV) (dB) (dBµV/m) 56.07 -3.43 52.64 41.22 -3.43 37.79 50.18 -0.75 49.43	(dBµV) (dB) (dBµV/m) (dBµV/m) 56.07 -3.43 52.64 74 41.22 -3.43 37.79 54 50.18 -0.75 49.43 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 56.07 -3.43 52.64 74 -21.36 41.22 -3.43 37.79 54 -16.21 50.18 -0.75 49.43 74 -24.57

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:					I A A A A A A A A A A A A A A A A A A A	<i>.</i>
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.32	-3.64	52.68	74	-21.32	peak
4824	46.18	-3.64	42.54	54	-11.46	AVG
7236	51.29	-0.95	50.34	74	-23.66	peak
7236	43.06	-0.95	42.11	54	-11.89	AVG

Vertical:		W	~		9	~
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	56.45	-3.64	52.81	74	-21.19	peak
4824	46.37	-3.64	42.73	54 www	-11.27	AVG
7236	53.92	-0.95	52.97	74	-21.03	peak
7236	43.18	-0.95	42.23	54	-11.77	AVG

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MID CH6 (802.11n/H20 Mode)/2437

Horizontal:			w.		0	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.46	-3.51	47.95	74.00	-26.05	peak
4874	42.09	-3.51	38.58	54.00	-15.42	AVG
7311	51.33	-0.82	50.51	74.00	-23.49	peak
7311	39.21	-0.82	38.39	54.00	-15.61	AVG

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.45	-3.51	47.94	74.00	-26.06	peak
4874	43.82	-3.51	40.31	54.00	-13.69	AVG
7311	50.17	-0.82	49.35	74.00	-24.65	peak
7311	38.29	-0.82	37.47	54.00	-16.53	AVG

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:		w.			۲	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUNKTESTIN
4924	54.06	-3.43	50.63	74	-23.37	peak
4924	44.27	-3.43	40.84	54	-13.16	AVG
7386	50.41	-0.75	49.66	74	-24.34	peak
7386	40.36	-0.75	39.61	54	-14.39	AVG

Vertical:	HUAN	HUA	ATT HUAN		HUAKIL	HUAN
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	dBμV/m)	(dBµV/m)	(dB)	
4924	55.62	-3.43	52.19	74	-21.81	peak
4924	41.38	-3.43	37.95	54	-16.05	AVG
7386	53.17	-0.75	52.42	74	-21.58	peak
7386	40.06	-0.75	39.31	54	-14.69	AVG

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AFICATION



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal		9	V			
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4844	53.49	-3.63	49.86	74	-24.14	peak
4844	43.28	-3.63	39.65	54	-14.35	AVG
7266	51.57	-0.94	50.63	74	-23.37	peak
7266	41.32	-0.94	40.38	54	-13.62	AVG

Vertical:	HUAKTES	un an	AKTEST. HUAKTE		THUAK TEST	HUAKTEL
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4844	56.41	-3.63	52.78	74	-21.22	peak
4844	43.95	-3.63	40.32	54	-13.68	AVG
7266	52.01	-0.94	51.07	74	-22.93	peak
7266	42.96	-0.94	42.02	54	-11.98	AVG

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:	~	1			0	-
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	AUAK TEST
4874	54.12	-3.51	50.61	74	-23.39	peak
4874	42.94	-3.51	39.43	54	-14.57	AVG
7311	50.07	-0.82	49.25	74	-24.75	peak
7311	40.26	-0.82	39.44	54		AVG

Vertical:	HUAN	HUP	HUAN		HUAKIL	HUAN
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	dBµV/m)	(dBµV/m)	(dB)	
4874	52.18	-3.51	48.67	74	-25.33	peak
4874	43.29	-3.51	39.78	54	-14.22	AVG
7311	50.34	-0.82	49.52	74	-24.48	peak
7311	39.71	-0.82	38.89	54	-15.11	AVG

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:	-	1	w.		۵	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	WAX TESTIN
4904	53.69	-3.43	50.26	74	-23.74	peak
4904 since	44.31	-3.43	40.88	54	-13.12	AVG
7356	51.36	-0.75	50.61	74	-23.39	peak
7356	42.82	-0.75	42.07	54	-11.93	AVG

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

HUAN	THUR HUR	HUAK		HUAKTE	HUAK
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
53.13	-3.43	49.7	74	-24.3	peak
42.92	-3.43	39.49	54	-14.51	AVG
50.77	-0.75	50.02	74	-23.98	peak
39.31	-0.75	38.56	54	-15.44	AVG
	(dBµV) 53.13 42.92 50.77	(dBµV) (dB) 53.13 -3.43 42.92 -3.43 50.77 -0.75	(dBµV) (dB) (dBµV/m) 53.13 -3.43 49.7 42.92 -3.43 39.49 50.77 -0.75 50.02	(dBµV) (dB) (dBµV/m) (dBµV/m) 53.13 -3.43 49.7 74 42.92 -3.43 39.49 54 50.77 -0.75 50.02 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 53.13 -3.43 49.7 74 -24.3 42.92 -3.43 39.49 54 -14.51 50.77 -0.75 50.02 74 -23.98

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:	HUAN	HUAN	HUAN		HUAN	HUAN
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	AK TESTING
2310.00	54.25	-5.81	48.44	74	-25.56	peak
2310.00	44.18	-5.81	38.37	54	-15.63	AVG
2390.00	52.36	-5.84	46.52	74	-27.48	peak
2390.00	42.89	-5.84	37.05	54	-16.95	AVG

Vartical	•
Vertical	

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Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2310.00	58.41	-5.81	52.6	74	-21.4	peak
2310.00	42.59	-5.81	36.78	54	-17.22	AVG
2390.00	54.06	-5.84	48.22	74	-25.78	peak
2390.00	43.17	-5.84	37.33	54	-16.67	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)	HUAK TES
2483.50	55.34	-5.81	49.53	74	-24.47	peak
2483.50	44.02	-5.81	38.21	54	-15.79	AVG
2500.00	53.15	-6.06	47.09	74	-26.91	peak
2500.00	42.78	-6.06	36.72	54	-17.28	AVG

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	54.62	-5.81	48.81	74	-25.19	🤍 peak
2483.50	43.13	-5.81	37.32	54	-16.68	AVG
2500.00	51.29	-6.06	45.23	74	-28.77	peak
2500.00	43.08	-6.06	37.02	54	-16.98	AVG

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

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUNTES
2310.00	53.15	-5.81	47.34	74	-26.66	peak
2310.00	44.06	-5.81	38.25	54	-15.75	AVG
2390.00	51.25	-5.84	45.41	74	-28.59	peak
2390.00	42.79	-5.84	36.95	54	-17.05	AVG

Vertical:		O HO			0"	0
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	56.84	-5.81	51.03	74	-22.97	peak
2310.00	42.16	-5.81	36.35	54	-17.65	AVG
2390.00	52.73	-5.84	46.89	74	-27.11	peak
2390.00	42.92	-5.84	37.08	54	-16.92	AVG

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

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FICATION

Operation Mode: TX CH High (2462MHz)

Horizontal:	<u> </u>					
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUNKTES
2483.50	53.18	-5.65	47.53	74	-26.47	peak
2483.50	45.21	-5.65	39.56	54	-14.44	AVG
2500.00	51.24	-5.65	45.59	74	-28.41	peak
2500.00	43.19	-5.65	37.54	54	-16.46	AVG

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUANTEST
2483.50	53.06	-5.65	47.41	74	-26.59	peak
2483.50	43.14	-5.65	37.49	54	-16.51	AVG
2500.00	54.28	-5.65	48.63	74	-25.37	peak
2500.00	41.23	-5.65	35.58	54	-18.42	AVG

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

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	56.78	-5.81	50.97	74	-23.03	peak
2310.00	43.52	-5.81	37.71	54	-16.29	AVG
2390.00	54.19	-5.84	48.35	74	-25.65	peak
2390.00	42.06	-5.84	36.22	54	-17.78	AVG

Vertical:)	0			<u> </u>	0
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	UNAN TESTING
2310.00	53.23	-5.81	47.42	74	-26.58	peak
2310.00	45.59	-5.81	39.78	54	-14.22	AVG
2390.00	53.41	-5.84	47.57	74	-26.43	peak
2390.00	42.86	-5.84	37.02	54	-16.98	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)

		<u>.</u>			•
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUANTES
54.18	-5.65	48.53	74	-25.47	peak
41.29	-5.65	35.64	54	-18.36	AVG
53.06	-5.65	47.41	74	-26.59	peak
40.44	-5.65	34.79	54	-19.21	AVG
	(dBµV) 54.18 41.29 53.06	(dBµV) (dB) 54.18 -5.65 41.29 -5.65 53.06 -5.65	(dBµV) (dB) (dBµV/m) 54.18 -5.65 48.53 41.29 -5.65 35.64 53.06 -5.65 47.41	(dBµV) (dB) (dBµV/m) (dBµV/m) 54.18 -5.65 48.53 74 41.29 -5.65 35.64 54 53.06 -5.65 47.41 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 54.18 -5.65 48.53 74 -25.47 41.29 -5.65 35.64 54 -18.36 53.06 -5.65 47.41 74 -26.59

Vertical:	9	0			0	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAK TEST
2483.50	53.72	-5.65	48.07	74	-25.93	peak
2483.50	45.91	-5.65	40.26	54	-13.74	AVG
2500.00	52.54	-5.65	46.89	74	-27.11	peak
2500.00	40.32	-5.65	34.67	54	-19.33	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:		Ŵ				
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUANTES
2310.00	53.14	-5.81	47.33	74	-26.67	peak
2310.00	STANG /	-5.81	/ crnvG	54	R TESTA	AVG
2390.00	53.29	-5.84	47.45	74	-26.55	peak
2390.00	1	-5.84	/	54	1	AVG

Vertical:		OHD.	0.		0 ^{+0.}	0.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HUAK TESTIC
2310.00	53.06	-5.81	47.25	74	-26.75	peak
2310.00	STING /	-5.81	/ STING	54	TESTING /	AVG
2390.00	51.71	-5.84	45.87	74	-28.13	peak
2390.00	1	-5.84	/	54	1	AVG
0	AG BER			G ARRAN		1 34

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

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Operation Mode: TX CH High (2452MHz)

Horizontal:						
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	C HUNK IL
و 2483.50	53.24	-5.65	47.59	74	-26.41	peak
2483.50	CESTING /	-5.65	AN TESTING	54 M	1	AVG
2500.00	53.96	-5.65	48.31	74	-25.69	peak
2500.00	1	-5.65	/	54	1	AVG

Vertical:

Frequency Re	Reading Result Factor Emis	Emission Level	🮺 Limits	Margin	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
[©] 2483.50	56.19	-5.65	50.54	74	-23.46	peak
2483.50	I I	-5.65	IN ALTESTING	54	/	AVG
2500.00	52.32	-5.65	46.67	74	-27.33	peak
2500.00	HUD-	-5.65	1	54	1	AVG

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
 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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4.7. 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.

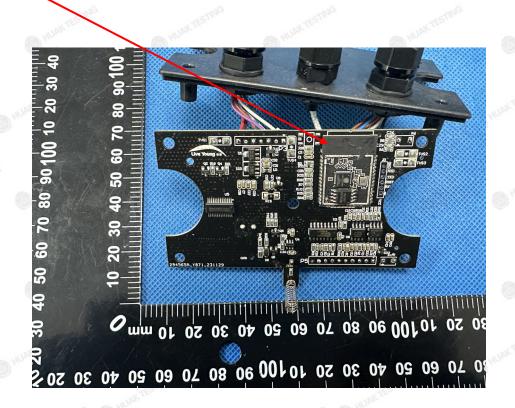
Refer to statement below for compliance.

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 3.28dBi.

WIFI ANTENNA



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5. Photographs of Test

Radiated Emission 8.8 $\dot{\mathbf{O}}$ $\dot{\mathbf{O}}\dot{\mathbf{O}}$

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Conducted Emission



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6. Photos of the EUT

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

----End of test report--

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