

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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		Allen HU	A12793. 1	ALC: HO	610793 Y					
		RF T	est Room							
Equipment Manufacturer Model Serial Number Calibration Cal										
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026					
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026					
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026					
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	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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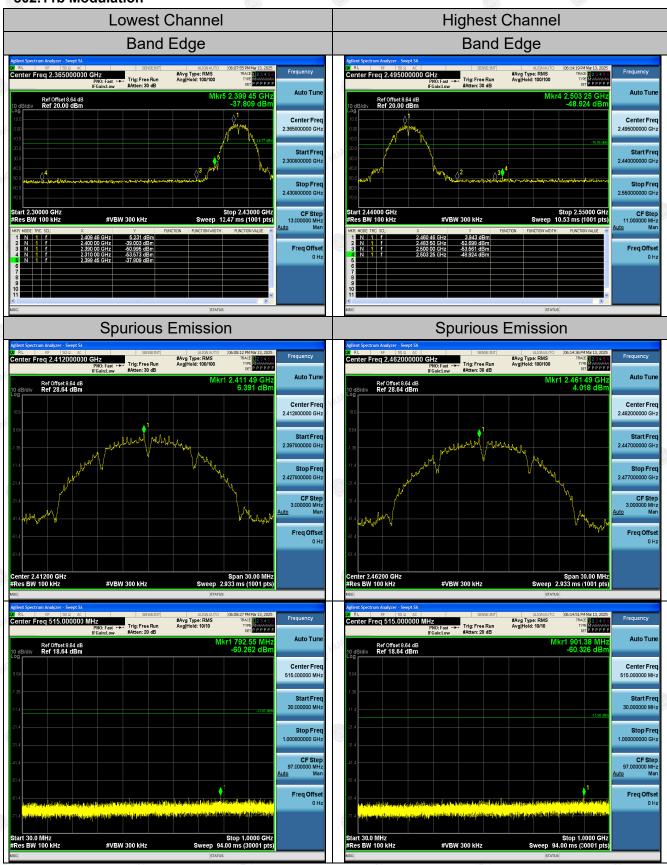
Page 35 of 72

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Test Data





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Page 36 of 72

Report No.: HK2503101037-1E



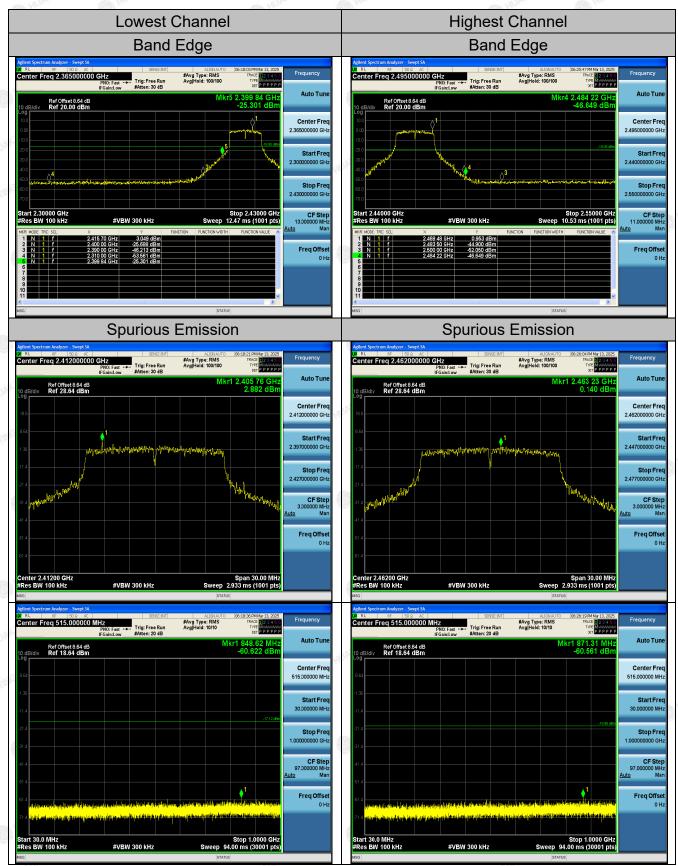
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Page 37 of 72

802.11g Modulation



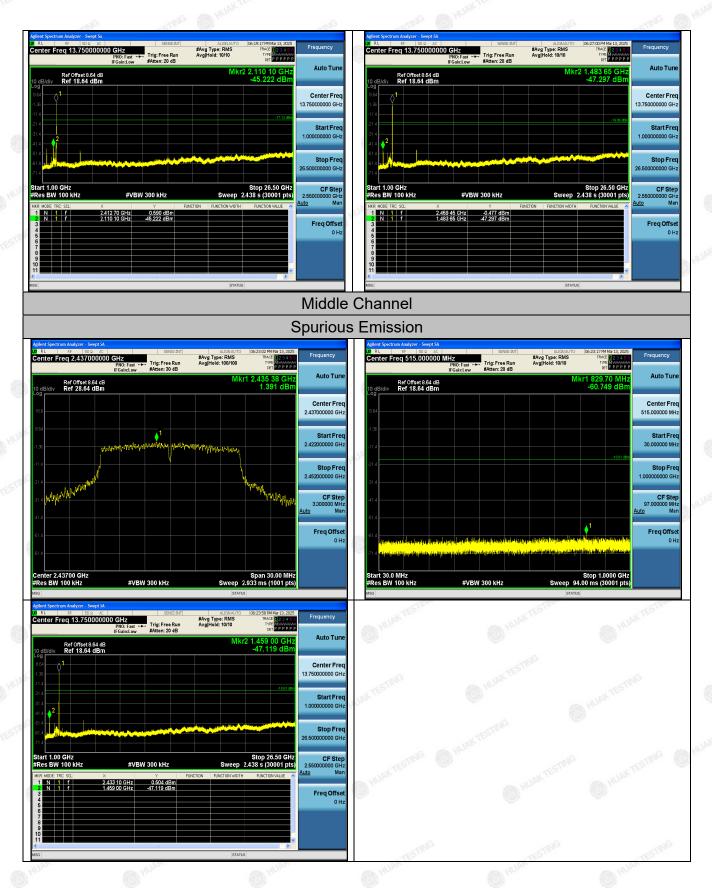
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Page 38 of 72

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802.11n (HT20) Modulation



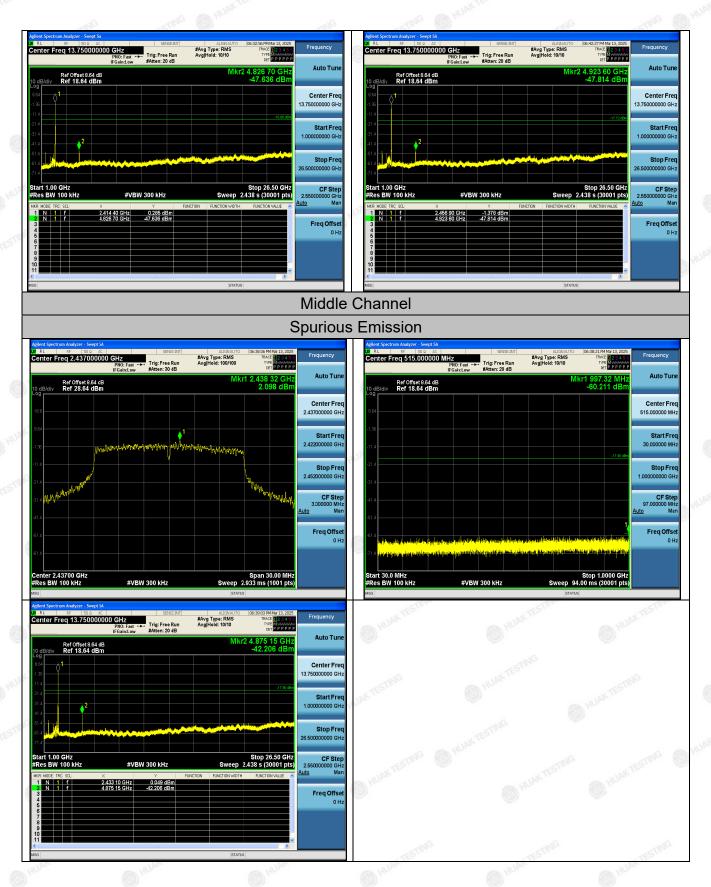
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Page 40 of 72

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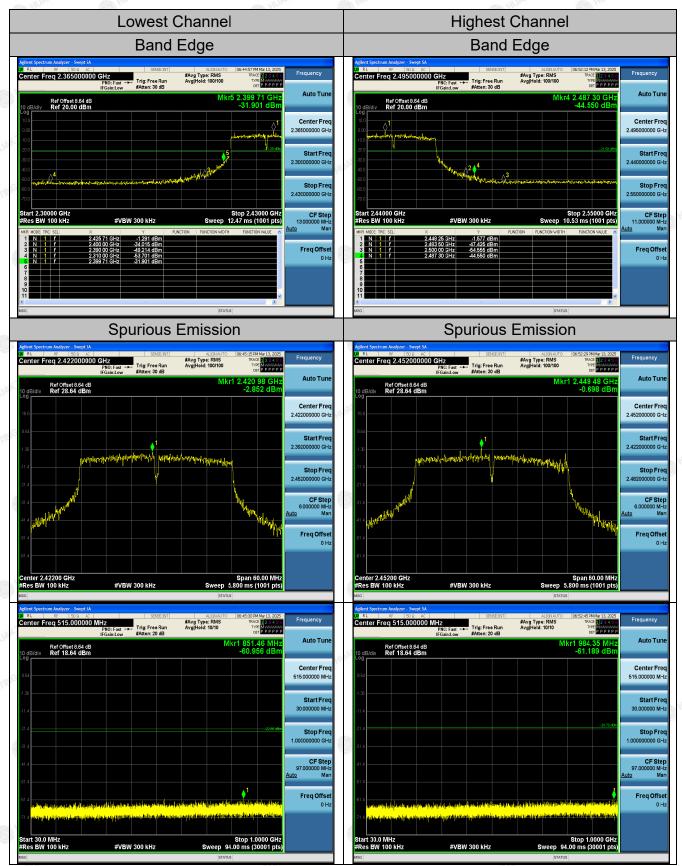
Page 41 of 72

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802.11n (HT40) Modulation



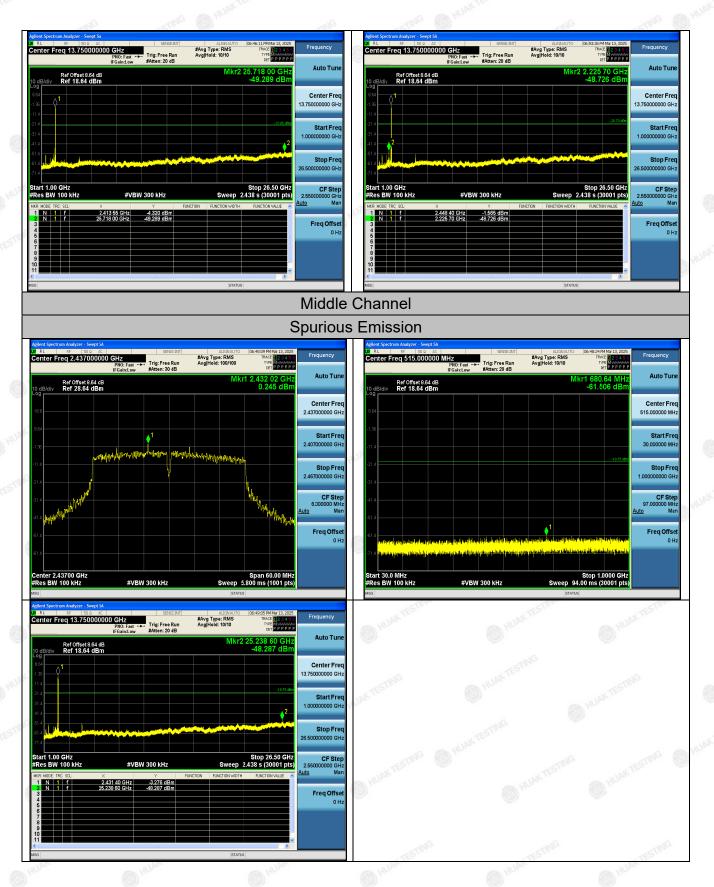
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Page 42 of 72

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4.7. Radiated Spurious Emission Measurement

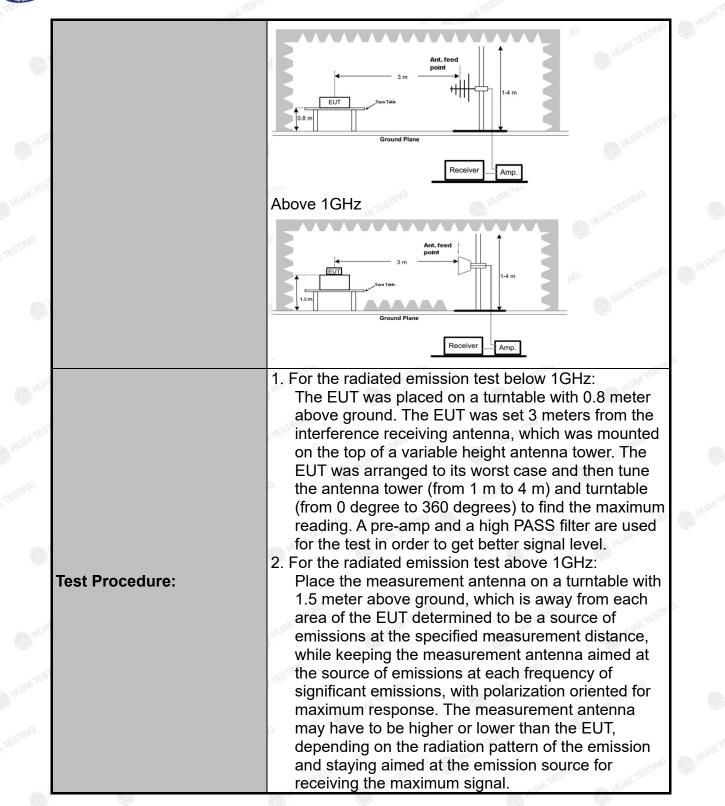
Test Specification

Test Requirement:	FCC Part15	C Section	15.209	TESTIN	ß	TES
Test Method:	ANSI C63.10): 2013	6	HUAN		O HUAR
Frequency Range:	9 kHz to 25 (GHz		CTING		
Measurement Distance:	3 m	TESTING	A HU	AK TES		TESTING
Antenna Polarization:	Horizontal &	Vertical	U		0	HUAR
Operation mode:	Transmitting	mode with	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	1MHz	3MHz		eak Value
	Above 1GHz	Peak	1MHz	10Hz		erage Value
	Frequency 0.009-0.490 0.490-1.705		Field Strength (microvolts/meter) 2400/F(KHz) 24000/F(KHz)		Measurement Distance (meters) 300 30	
	1.705-3		30	κπΖ)	1036	30
	30-88		100	MC.	-	3
	88-216		150			3
Limit:	216-96	200		STING	3	
	Above 9	500	- HUAK		3	
	Frequency		Strength olts/meter)	Measurement Distance (meters)		Detector
	Above 1GHz	UNK IL	500			Average
		5	6000	3		Peak
Test setup:	For radiated	3 m -				UAN TESTING
	30MHz to 10	HZ				

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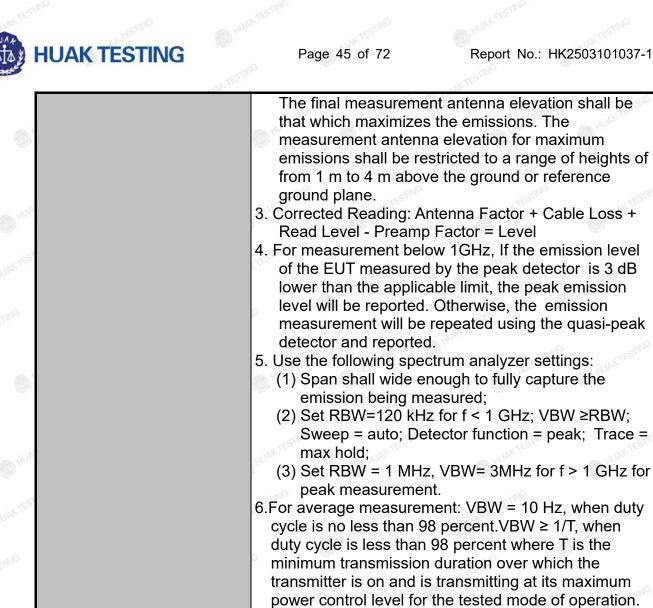
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PASS

Test results:

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Test Instruments

	Rad	iated Emission	Test Site (966	6)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	Feb. 18, 2026
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	Feb. 18, 2026
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	Feb. 18, 2026
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	Feb. 18, 2026
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0 .0	HKE-184	N/A	N/A

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

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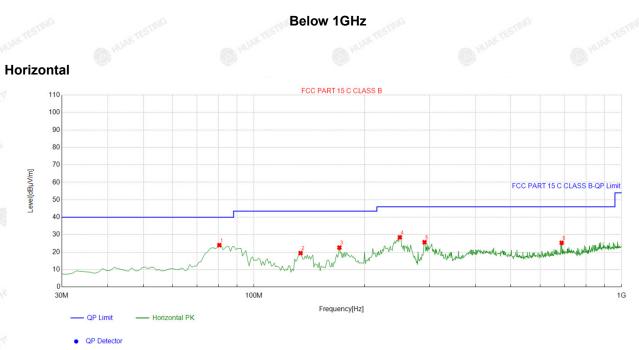


Page 47 of 72

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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										
31		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
8	1	80.49049	-18.34	42.35	24.01	40.00	15.99	100	360	Horizontal	
100	2	133.89389	-17.40	36.86	19.46	43.50	24.04	100	300	Horizontal	
	3	170.79079	-17.02	39.63	22.61	43.50	20.89	100	94	Horizontal	
	4	249.43943	-13.41	41.92	28.51	46.00	17.49	100	323	Horizontal	
	5	291.19119	-12.01	37.70	25.69	46.00	20.31	100	338	Horizontal	
12	6	687.34734	-4.32	29.68	25.36	46.00	20.64	100	229	Horizontal	

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

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Suspected List

	•									
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
8	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
6	1	86.316316	-17.62	48.46	30.84	40.00	9.16	100	249	Vertical
	2	137.77777	-17.87	47.17	29.30	43.50	14.20	100	1	Vertical
G	3	181.47147	-16.13	44.38	28.25	43.50	15.25	100	357	Vertical
	4	253.32332	-13.57	40.26	26.69	46.00	19.31	100	204	Vertical
	5	306.72672	-11.89	36.95	25.06	46.00	20.94	100	45	Vertical
	6	439.74975	-8.70	35.15	26.45	46.00	19.55	100	200	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
STIME		TESTING	TESTING
	K TESTING	- K TESTING	- HIAN
		1 <u>111</u>	
	-	n ¹⁰	

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

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

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Above 1GHz

Radiated Emission Test

LOW CH1 (802.11b Mode)/2412

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
54.77	-3.64	51.13	74	-22.87	peak
41.88	-3.64	38.24	54	-15.76	AVG
52.19	-0.95	51.24	74	-22.76	peak
40.22	-0.95	39.27	54	-14.73	AVG
	(dBµV) 54.77 41.88 52.19	(dBµV) (dB) 54.77 -3.64 41.88 -3.64 52.19 -0.95	(dBµV) (dB) (dBµV/m) 54.77 -3.64 51.13 41.88 -3.64 38.24 52.19 -0.95 51.24	(dBµV) (dB) (dBµV/m) (dBµV/m) 54.77 -3.64 51.13 74 41.88 -3.64 38.24 54 52.19 -0.95 51.24 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 54.77 -3.64 51.13 74 -22.87 41.88 -3.64 38.24 54 -15.76 52.19 -0.95 51.24 74 -22.76

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	53.16	-3.64	49.52	74	o -24.48	peak
4824	42.25	-3.64	38.61	54	-15.39	AVG
7236	51.21	-0.95	50.26	74	-23.74	peak
7236	39.66	-0.95	38.71	54	-15.29	AVG

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

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Page 50 of 72

FICATION

MID CH6 (802.11b Mode)/2437

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
52.29	-3.51	48.78	74	-25.22	peak
41.29	-3.51	37.78	54	-16.22	AVG
50.61	-0.82	49.79	74	-24.21	peak
39.71	-0.82	38.89	54	-15.11	AVG
	(dBµV) 52.29 41.29 50.61	(dBµV) (dB) 52.29 -3.51 41.29 -3.51 50.61 -0.82	(dBµV) (dB) (dBµV/m) 52.29 -3.51 48.78 41.29 -3.51 37.78 50.61 -0.82 49.79	o o o o (dBµV) (dB) (dBµV/m) (dBµV/m) 52.29 -3.51 48.78 74 41.29 -3.51 37.78 54 50.61 -0.82 49.79 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) (dB) 52.29 -3.51 48.78 74 -25.22 41.29 -3.51 37.78 54 -16.22 50.61 -0.82 49.79 74 -24.21

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	52.73	-3.51	49.22	74	-24.78	peak
4874	41.43	-3.51	37.92	54	-16.08	AVG
7311	50.07	-0.82	49.25	74	-24.75	peak
7311	39.59	-0.82	38.77	54	-15.23	AVG

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

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.75	-3.43	49.32	74	-24.68	peak
4924	40.74	-3.43	37.31	54	-16.69	AVG
7386	51.66	-0.75	50.91	74	-23.09	peak
7386	39.99	-0.75	39.24	54	-14.76	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.55	-3.43	49.12	74	-24.88	peak
4924	42.21	-3.43	38.78	54	-15.22	AVG
7386	50.33	-0.75	49.58	74	-24.42	peak
7386	40.46	-0.75	39.71	54	-14.29	AVG
55807			10.007		1	307

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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Page 52 of 72

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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	54.13	-3.64	50.49	74	-23.51	peak
4824	42.69	-3.64	39.05	54	-14.95	AVG
7236	52.11	-0.95	51.16	74	-22.84	peak
7236	39.44	-0.95	38.49	54	-15.51	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.45	-3.64	48.81	74	-25.19	peak
4824	44.08	-3.64	40.44	54	-13.56	AVG
7236	50.44	-0.95	49.49	74	-24.51	peak
7236	41.22	-0.95	40.27	54	-13.73	AVG

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Page 53 of 72

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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	54.19	-3.51	50.68	74	-23.32	peak
4874	43.11	-3.51	39.6	54	-14.4	AVG
7311	50.65	-0.82	49.83	74	-24.17	peak
7311	40.28	-0.82	39.46	54	-14.54	AVG

Vertical:

Level-Limit.

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	53.19	-3.51	49.68	74	-24.32	peak
4874	44.12	-3.51	40.61	54	-13.39	AVG
7311	51.64	-0.82	50.82	74	-23.18	peak
7311	40.13	-0.82	39.31	54	-14.69	AVG

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	53.12	-3.43	49.69	74	-24.31	peak
4924	42.37	-3.43	38.94	54	-15.06	AVG
7386	51.67	-0.75	50.92	74	-23.08	peak
7386	40.44	-0.75	39.69	54	-14.31	AVG

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

Vertical:

					¥	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.91	-3.43	49.48	74	-24.52	peak
4924	42.26	-3.43	38.83	54	-15.17	AVG
7386	50.24	-0.75	49.49	74	-24.51	peak
7386	38.29	-0.75	37.54	54	-16.46	AVG

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

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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LOW CH1 (802.11n/HT20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[©] (dBµV/m)	(dB)	Туре
4824	53.03	-3.64	49.39	74 🔊	-24.61	peak
of 4824	41.88	-3.64	38.24	54	-15.76	AVG
7236	50.21	-0.95	49.26	74	-24.74	peak
7236	39.18	-0.95	38.23	54	-15.77	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	54.12	-3.64	50.48	74	-23.52	peak
4824	43.55	-3.64	39.91	54	-14.09	AVG
7236	51.74	-0.95	50.79	74	-23.21	peak
7236	41.54	-0.95	40.59	54	-13.41	AVG

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

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Page 56 of 72

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MID CH6 (802.11n/HT20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.91	-3.51	48.40	74	-25.60	peak
4874	42.23	-3.51	38.72	54	-15.28	AVG
7311	50.74	-0.82	49.92	74	-24.08	peak
7311	37.97	-0.82	37.15	54	-16.85	AVG

Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	53.12	-3.51	49.61	74	-24.39	peak
4874	41.51	-3.51	38.00	54	-16.00	AVG
7311	50.21	-0.82	49.39	74	-24.61	peak
7311	40.37	-0.82	39.55	54	-14.45	AVG

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Page 57 of 72

HIGH CH11 (802.11n/HT20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data atan Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.52	-3.43	49.09	74	-24.91	peak
4924	44.72	-3.43	41.29	54	-12.71	AVG
7386	51.24	-0.75	50.49	74	-23.51	peak
7386	40.24	-0.75	39.49	54	-14.51	AVG
Remark: Factor	r = Cable loss + An	tenna factor +	· Attenuator – Pream	plifier; Level =	Reading + Fac	tor; Margin =

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

Vertical:

Frequency	Reading Result	Reading Result Factor Emission Lev	Emission Level	Limits	Margin	Data aton Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4924	52.75	-3.43	49.32	74	-24.68	peak
4924 ⁴	41.61	-3.43	38.18	54	-15.82	AVG
7386	50.95	-0.75	50.2	74	-23.8	peak
7386	40.01	-0.75	39.26	54		AVG

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Page 58 of 72

FIF

LOW CH3 (802.11n/HT40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Trace
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	52.43	-3.63	48.8	74	-25.2	peak
4844	40.13	-3.63	36.5	54	-17.5	AVG
7266	50.38	-0.94	49.44	74	-24.56	peak
7266	37.58	-0.94	36.64	54	-17.36	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	54.26	-3.63	50.63	74	-23.37	peak
4844	42.24	-3.63	38.61	54	-15.39	AVG
7266	50.39	-0.94	49.45	74	-24.55	peak
7266	38.49	-0.94	37.55	54	-16.45	AVG

Level-Limit.

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Page 59 of 72

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MID CH6 (802.11n/HT40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tras
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	53.01	-3.51	49.5	74	-24.5	peak
4874	45.12	-3.51	41.61	54	-12.39	AVG
7311	51.64	-0.82	50.82	74	-23.18	peak
7311	40.26	-0.82	39.44	54	-14.56	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	D. L. L. TSING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	54.61	-3.51	51.1	74	-22.9	peak
4874	43.12	-3.51	39.61	54	-14.39	AVG
7311	50.49	-0.82	49.67	74	-24.33	peak
7311	41.08	-0.82	40.26	54	-13.74	AVG

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Page 60 of 72

HIGH CH9 (802.11n/HT40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atas Tara
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4904	53.21	-3.43	49.78	74	-24.22	peak
4904	43.15	-3.43	39.72	54	-14.28	AVG
7356	50.28	-0.75	49.53	74	-24.47	peak
7356	38.08	-0.75	37.33	54	-16.67	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	53.18	-3.43	49.75	74	-24.25	peak
4904	41.82	-3.43	38.39	54	-15.61	AVG
7356	52.14	-0.75	51.39	74	-22.61	peak
7356	40.01	-0.75	39.26	54	-14.74	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.</p>

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Page 61 of 72

Test Result of Radiated Spurious at Band edges

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

Horizontal

1.5	121	10155222	10.5527	10.55.217		1053.221
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	JAK TESTING
2310.00	53.26	-5.81	47.45	74	-26.55	peak
2310.00	42.03	-5.81	36.22	54	-17.78	AVG
2390.00	51.25	-5.84	45.41	74	-28.59	peak
2390.00	39.51	-5.84	33.67	54	-20.33	AVG
Remark: Factor evel-Limit.	= Cable loss + An	tenna factor + A	Attenuator – Pream	plifier; Level =	Reading + Fa	ctor; Margin =

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	54.26	-5.81	48.45	74	-25.55	peak
2310.00	41.91	-5.81	36.1	54	-17.9	AVG
2390.00	50.32	-5.84	44.48	74	-29.52	peak
2390.00	38.98	-5.84	33.14	54	-20.86	AVG

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

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ATION

Operation Mode: TX CH High (2462MHz)

Horizontal

Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
52.73	-5.81	46.92	74	-27.08	peak
41.42	-5.81	35.61	54	-18.39	AVG
50.14	-6.06	44.08	74	-29.92	peak
40.66	-6.06	34.6	54	-19.4	AVG
	(dBµV) 52.73 41.42 50.14	(dBµV) (dB) 52.73 -5.81 41.42 -5.81 50.14 -6.06	(dBµV) (dB) (dBµV/m) 52.73 -5.81 46.92 41.42 -5.81 35.61 50.14 -6.06 44.08	(dBµV) (dB) (dBµV/m) (dBµV/m) 52.73 -5.81 46.92 74 41.42 -5.81 35.61 54 50.14 -6.06 44.08 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 52.73 -5.81 46.92 74 -27.08 41.42 -5.81 35.61 54 -18.39 50.14 -6.06 44.08 74 -29.92

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Typ
2483.50	54.18	-5.81	48.37	74	-25.63	peak
2483.50	41.65	-5.81	35.84	54	-18.16	AVG
2500.00	52.33	-6.06	46.27	74	-27.73	peak
2500.00	39.21	-6.06	33.15	54	-20.85	AVG

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

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

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

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.47	-5.81	47.66	74 www	-26.34	peak
2310.00	42.63	-5.81	36.82	54	-17.18	AVG
2390.00	52.48	-5.84	46.64	74	-27.36	peak
2390.00	40.44	-5.84	34.6	54	-19.4	AVG

Vertical:

KIL	AKTL	MAN	att		1 Mar	AKIL
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	TING
2310.00	52.46	-5.81	46.65	74	-27.35	peak
2310.00	44.39	-5.81	38.58	54	-15.42	AVG
2390.00	51.82	-5.84	45.98	74	-28.02	peak
2390.00	42.41	-5.84	36.57	54	-17.43	AVG

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

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Page 64 of 72

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	54.29	-5.65	48.64	74	-25.36	peak
2483.50	40.51	-5.65	34.86	54	-19.14	AVG
2500.00	52.31	-5.65	46.66	74	-27.34	peak
2500.00	38.81	-5.65	33.16	54	-20.84	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 💍	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	54.13	-5.65	48.48	74	-25.52	peak
2483.50	42.01	-5.65	36.36	54	-17.64	AVG
2500.00	50.28	-5.65	44.63	74	-29.37	peak
2500.00	40.52	-5.65	34.87	54	-19.13	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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IF.

Operation Mode: 802.11n/HT20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.62	-5.81	47.81	74	-26.19	peak
2310.00	41.81	-5.81	36	54	-18	AVG
2390.00	51.74	-5.84	45.9	74	-28.1	peak
2390.00	40.12	-5.84	34.28	54	-19.72	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	54.12	-5.81	48.31	74 M ⁰⁴	-25.69	peak
2310.00	41.37	-5.81	35.56	54	-18.44	AVG
2390.00	51.09	-5.84	45.25	74	-28.75	peak
2390.00	40.36	-5.84	34.52	54	-19.48	AVG

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

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Page 66 of 72

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	53.74	-5.65	48.09	74 M ^{UA1}	-25.91	peak
2483.50	40.52	-5.65	34.87	54	-19.13	AVG
2500.00	50.37	-5.65	44.72	74	-29.28	peak
2500.00	38.54	-5.65	32.89	54	-21.11	AVG

Vertical:

-125	aller	- All		1105	-125
Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	TESTING
54.13	-5.65	48.48	74	-25.52	peak
42.51	-5.65	36.86	54	-17.14	AVG
52.66	-5.65	47.01	74	-26.99	peak
39.09	-5.65	33.44	54	-20.56	AVG
	(dBµV) 54.13 42.51 52.66	(dBµV) (dB) 54.13 -5.65 42.51 -5.65 52.66 -5.65	(dBµV) (dB) (dBµV/m) 54.13 -5.65 48.48 42.51 -5.65 36.86 52.66 -5.65 47.01	(dBµV) (dB) (dBµV/m) (dBµV/m) 54.13 -5.65 48.48 74 42.51 -5.65 36.86 54 52.66 -5.65 47.01 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 54.13 -5.65 48.48 74 -25.52 42.51 -5.65 36.86 54 -17.14 52.66 -5.65 47.01 74 -26.99

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

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

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Operation Mode: 802.11n/HT40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	je Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.26	-5.81	47.45	74	-26.55	peak
2310.00	S. 1	-5.81	- HUNY ESTIM	54	1	AVG
2390.00	51.44	-5.84	45.6	74	-28.4	peak
2390.00	HUAL	-5.84	/	54	1	AVG

Vertical:

Olm	Olar	-mlC		1G	Om	anto
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	55.23	-5.81	49.42	74	-24.58	peak
2310.00	/	-5.81	· /	54	/ 🤍	AVG
2390.00	52.47	-5.84	46.63	74	-27.37	peak
2390.00	akter /	-5.84	AUAN TEL	54	HUAKTEST	AVG

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

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Operation Mode: TX CH High (2452MHz)

Horizontal

STAR	STALS	SUP	-6		STAD	STAD
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	54.19	-5.65	48.54	74	-25.46	peak
2483.50	/	-5.65	· /	54	/	AVG
2500.00	52.38	-5.65	46.73	74	-27.27	peak
2500.00	last in 1	-5.65	A Loan In	54	HUAKTE	AVG
Remark: Factor	= Cable loss + Ant	enna factor + A	Attenuator – Pream	plifier; Level =	Reading + Fac	ctor; Margin =

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

Vertical:

0000	P	0.220	0220	0440		0220
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	HDAK TESTING
2483.50	53.74	-5.65	48.09	74	-25.91	peak
2483.50	restrict the	-5.65	SING / ESTIN	54	STING	AVG
2500.00	51.88	-5.65	46.23	74	-27.77	peak
2500.00	/	-5.65	/	54	1	AVG
Remark: Factor	= Cable loss + Ant	enna factor +	Attenuator – Pream	plifier; Level =	Reading + Fac	ctor; Margin =

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

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

Remark:

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

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

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4. All the test modes completed for test. only the worst result of Mode 1 (802.11b Mode)

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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 External Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.25dBi.

Antenna

0 80 10 60 20 40 30 50 10 500 20 80 10 60 20 40 30 50 10 100 20 80 10 60 20 40

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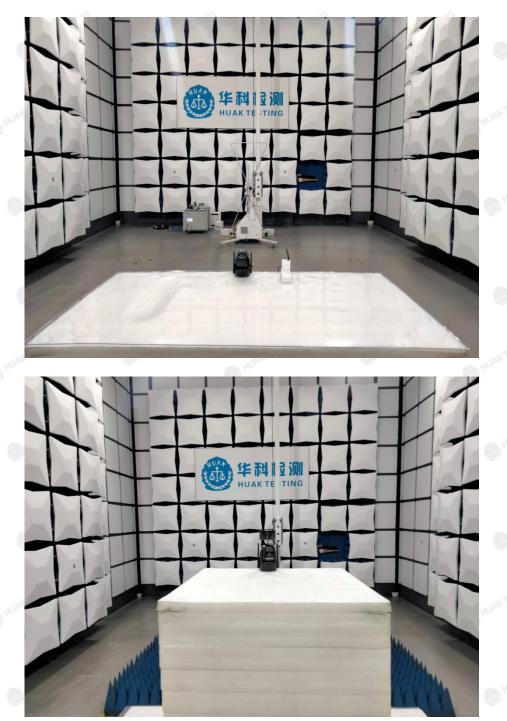
TING

HK



5. Test Setup Photos of the EUT

Radiated Emissions



Page 70 of 72

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Page 71 of 72

Report No.: HK2503101037-1E

Conducted Emission



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INFIGATION

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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