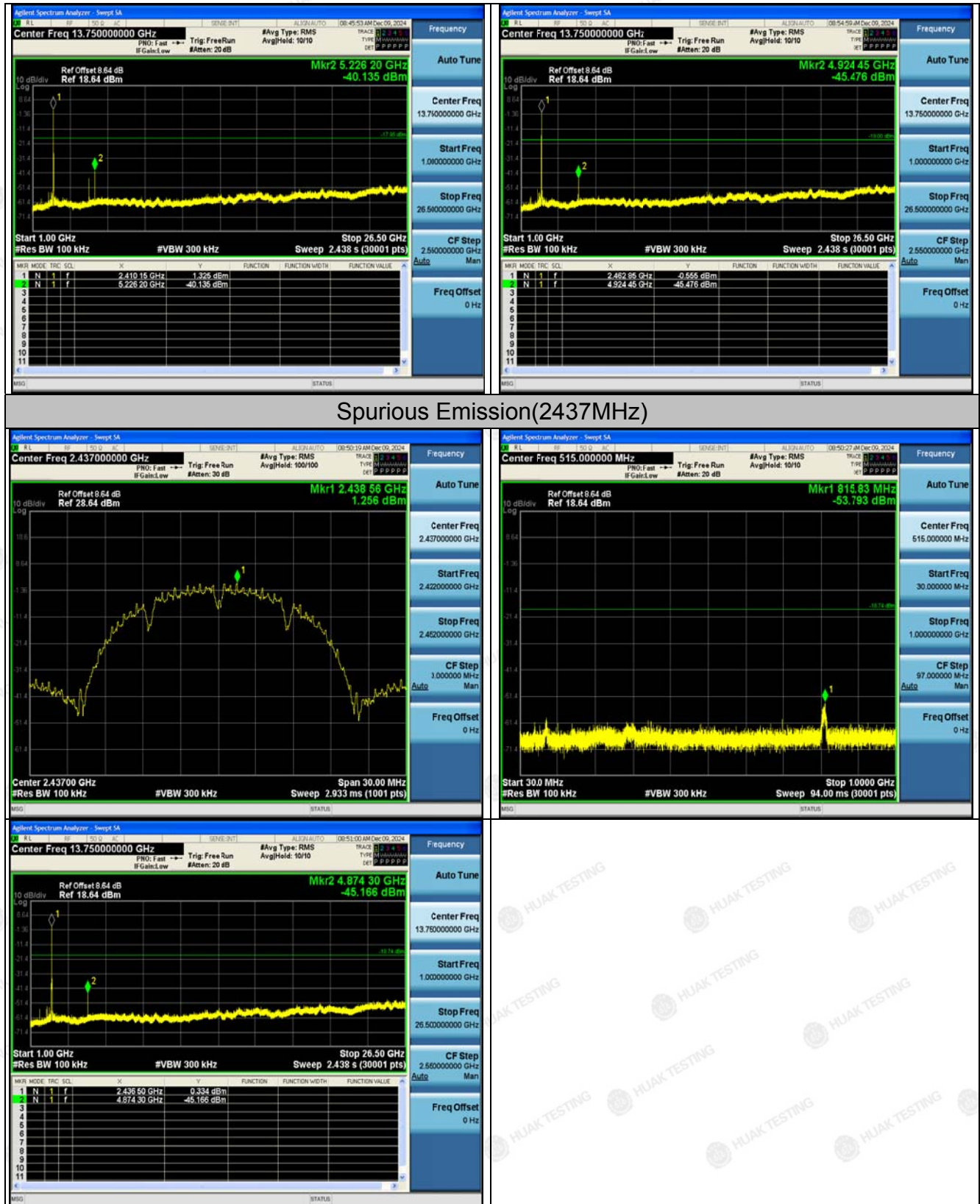




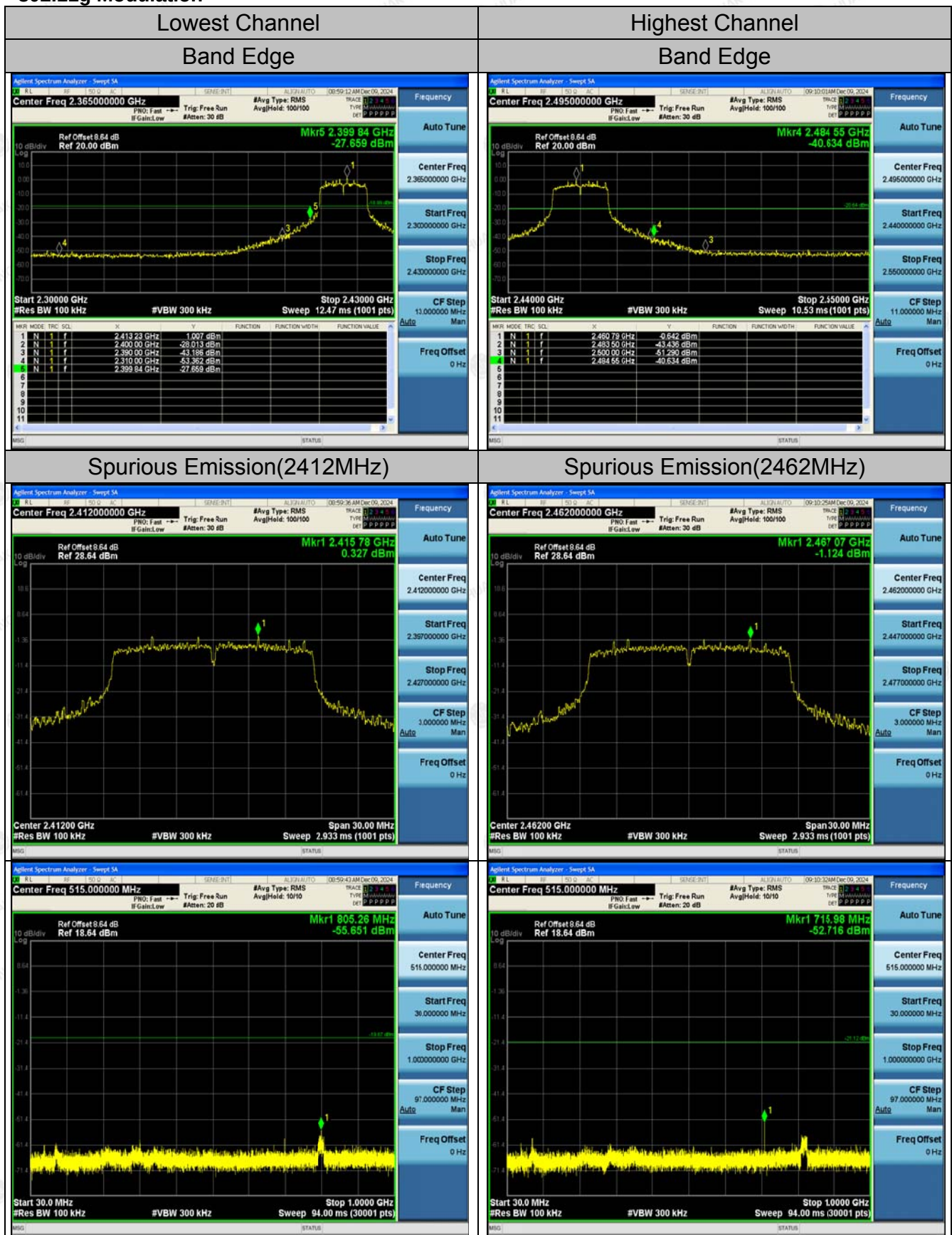
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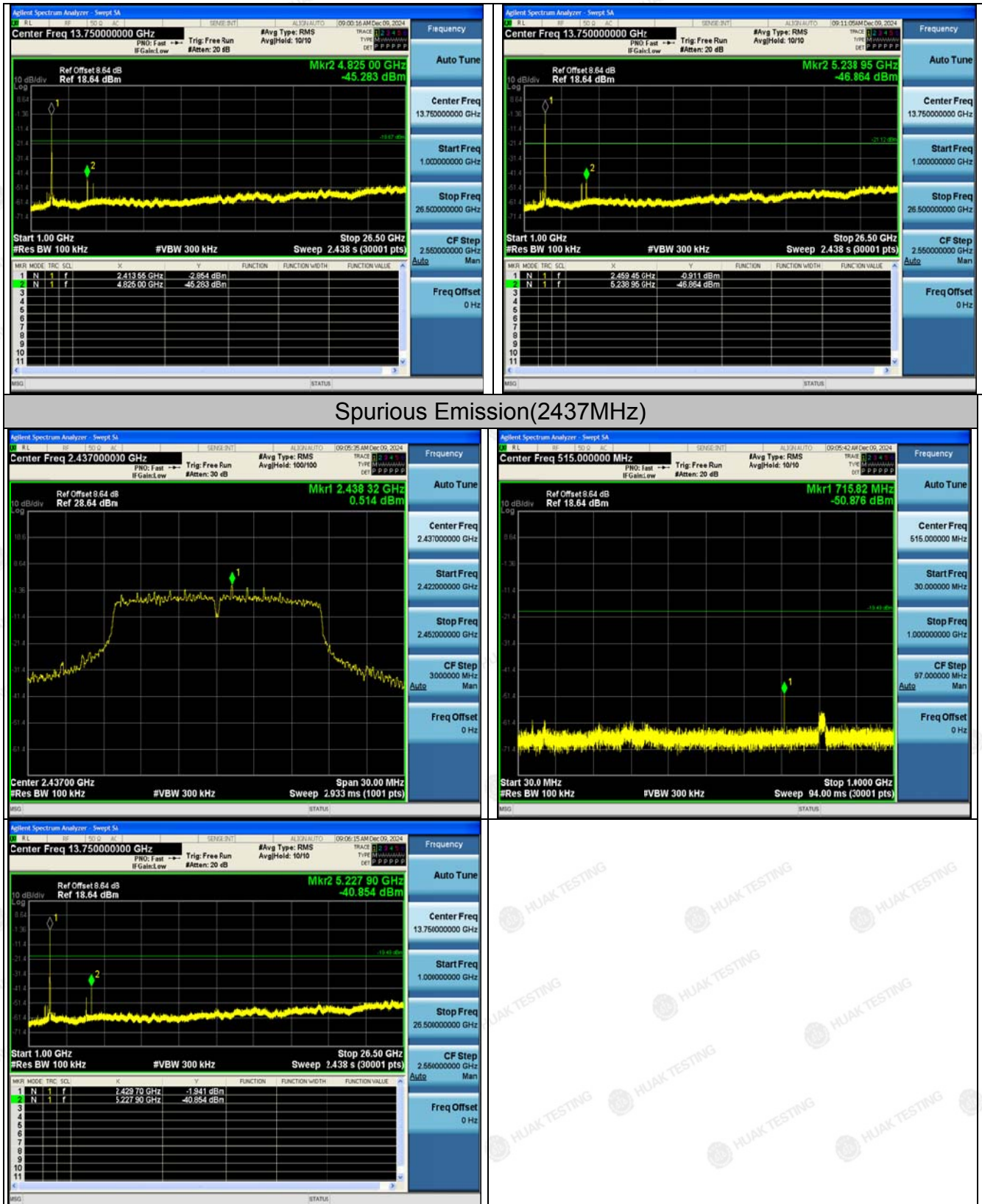
802.11g Modulation



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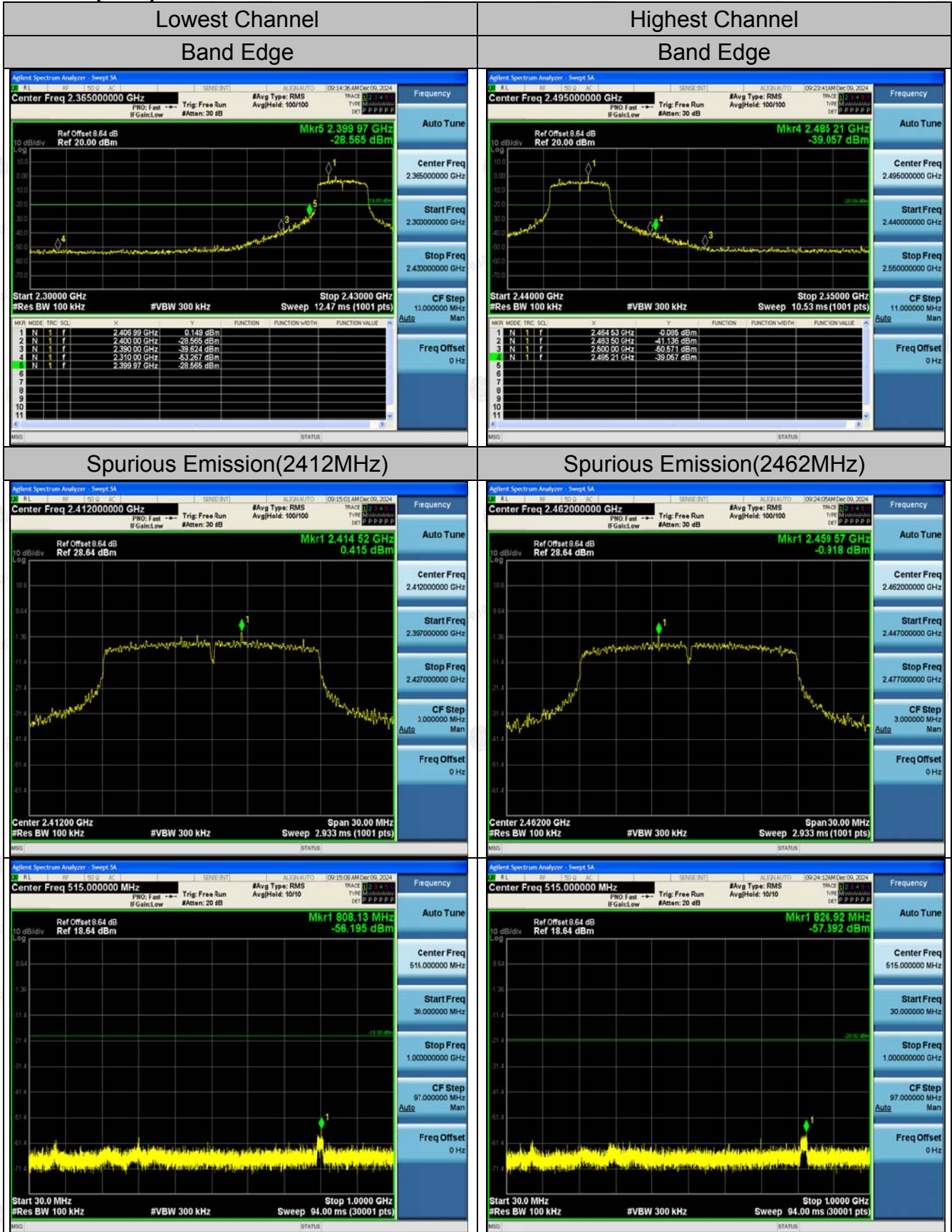
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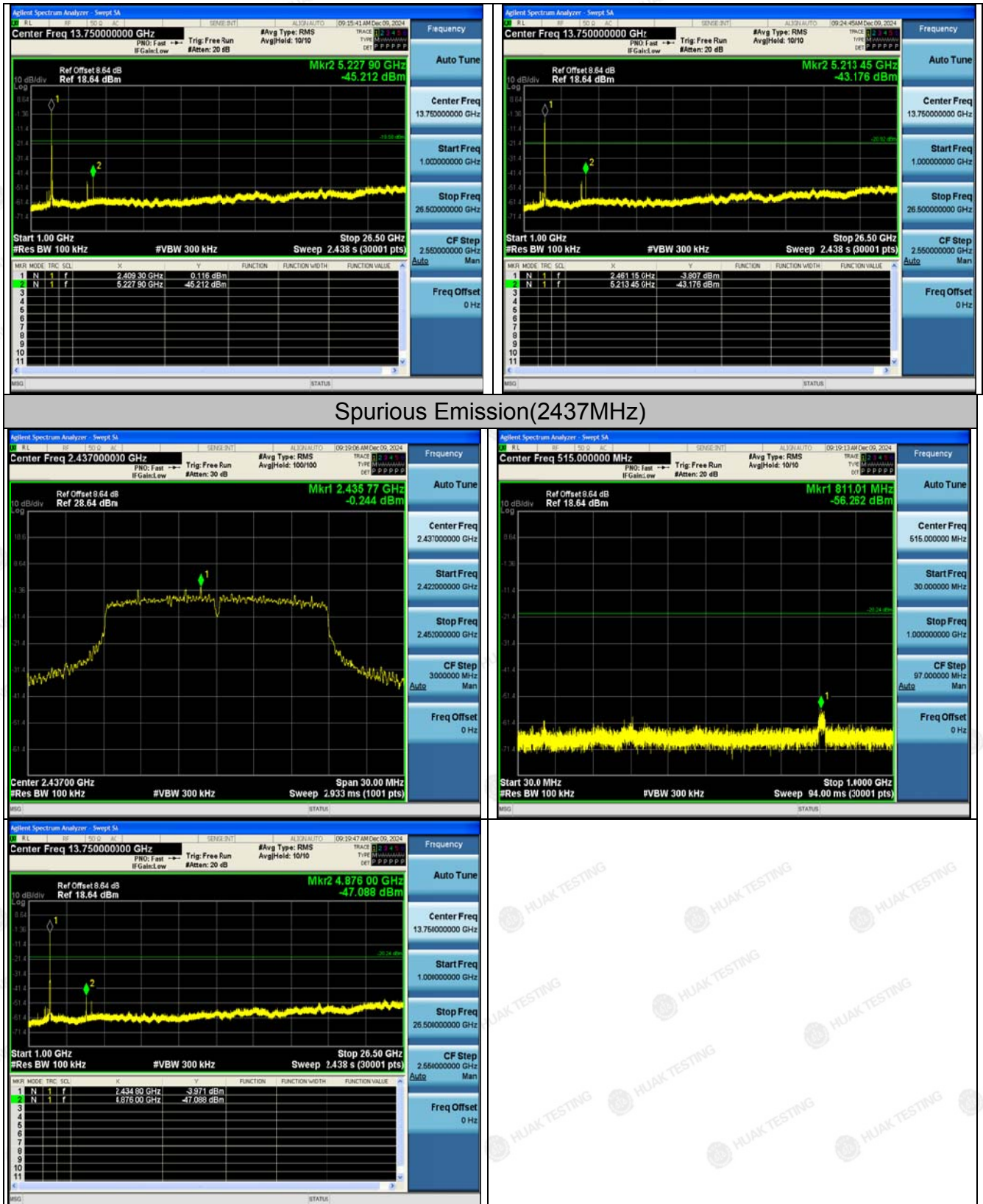
802.11n (HT20) Modulation



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802.11n (HT40) Modulation



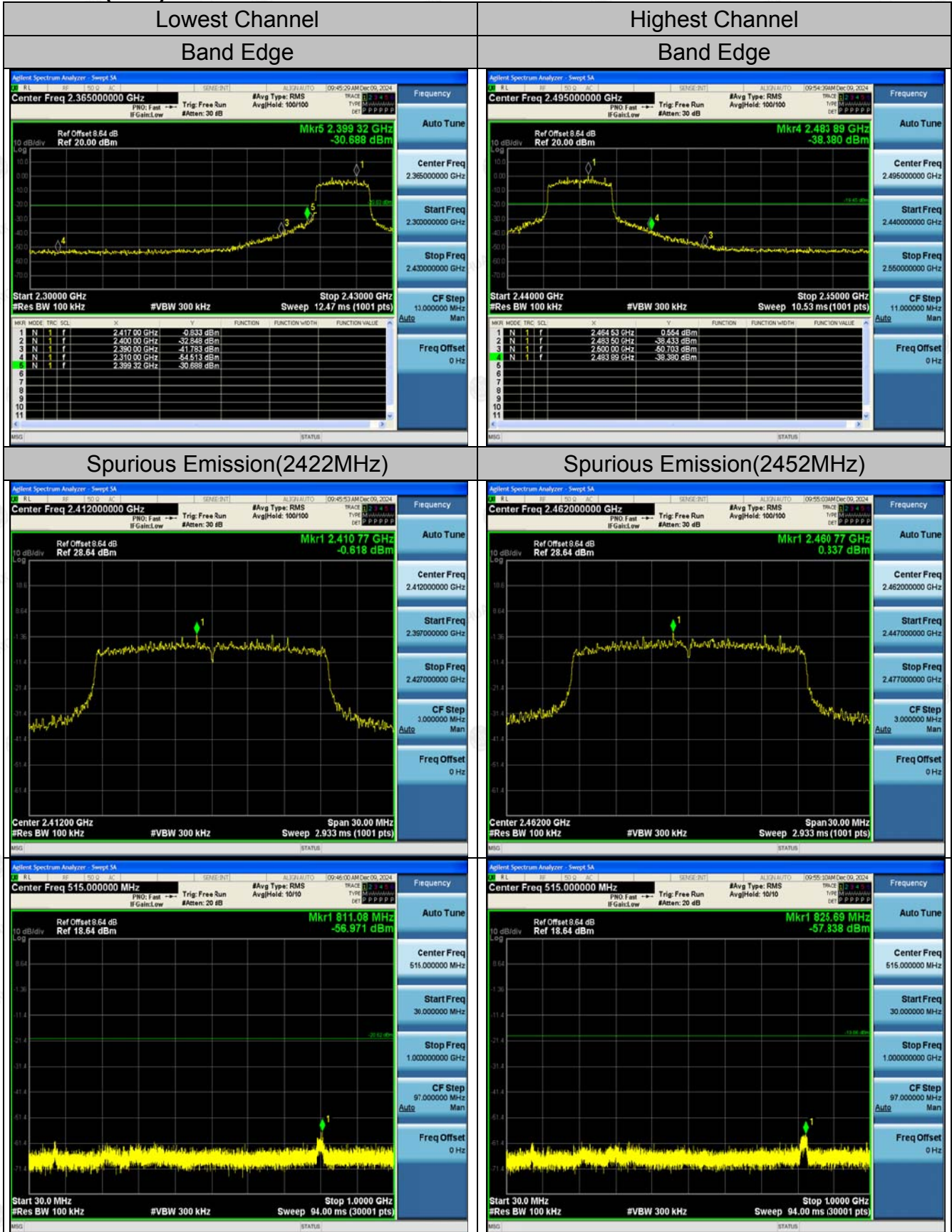
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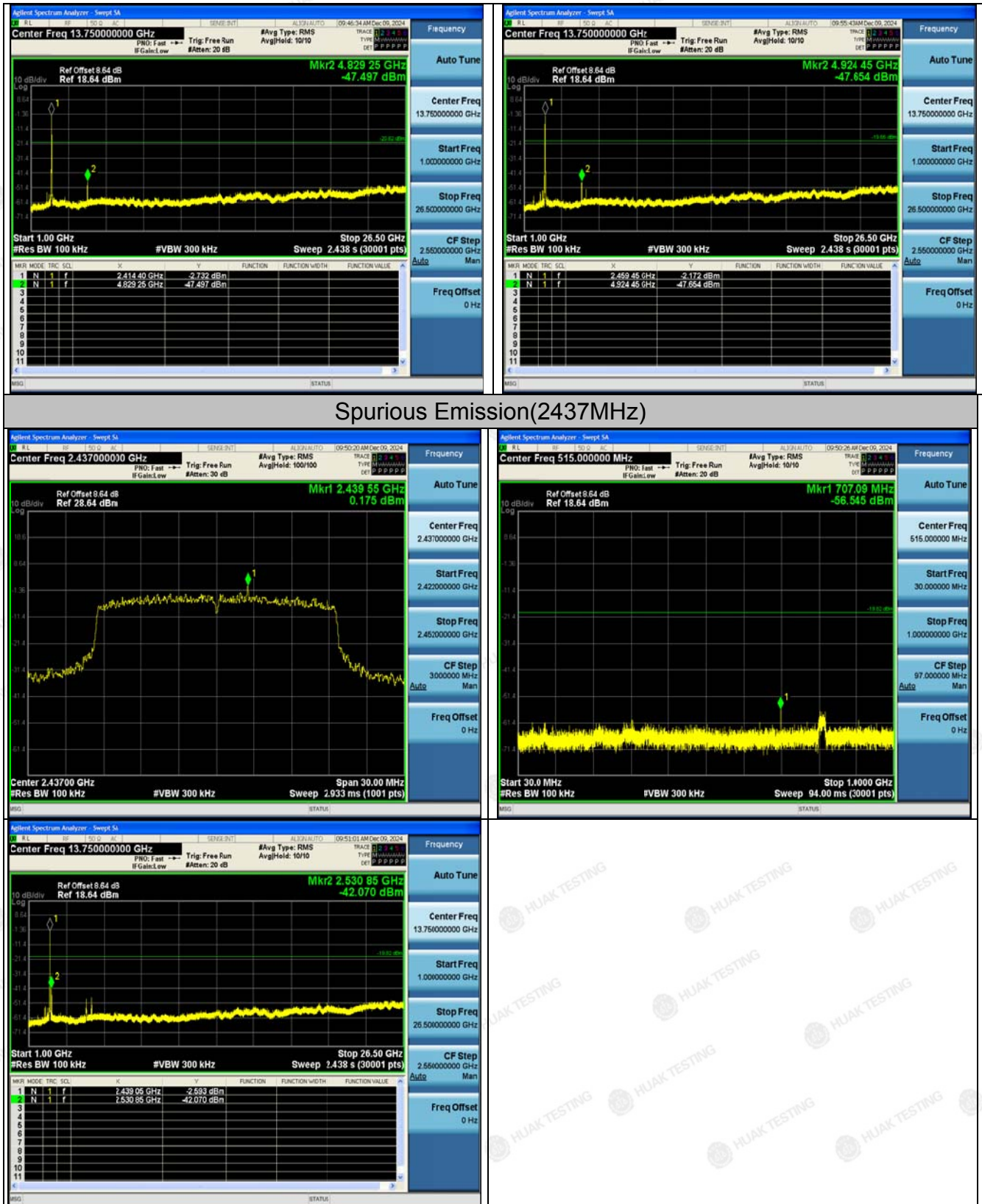
802.11ax (HT20) Modulation



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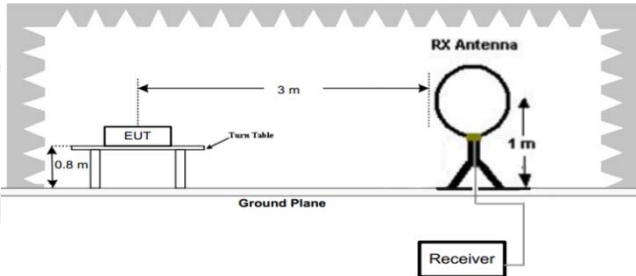
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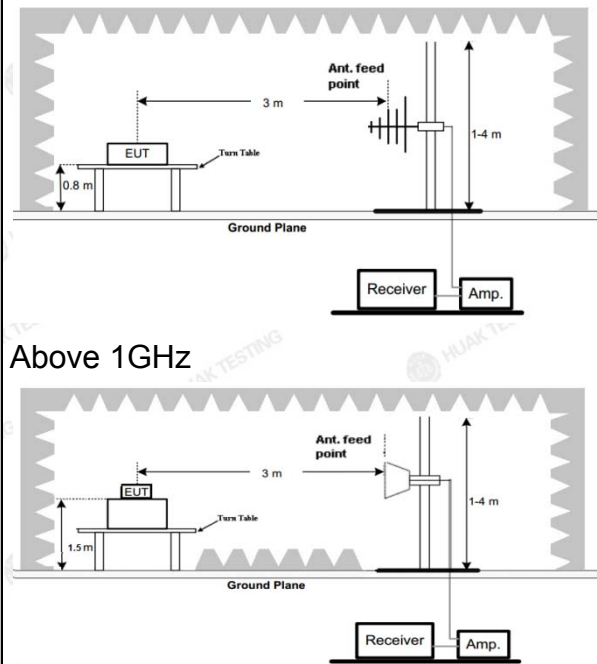
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4.7. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10: 2013			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Transmitting mode with modulation			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	120KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:	Remark			
	Quasi-peak Value			
	Quasi-peak Value			
	Quasi-peak Value			
	Peak Value			
	Average Value			
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490	2400/F(KHz)	300	
	0.490-1.705	24000/F(KHz)	30	
	1.705-30	30	30	
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
	For radiated emissions below 30MHz			
				
	30MHz to 1GHz			

**Test Procedure:**

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
2. For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal.



	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. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement. 6. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, 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.
Test results:	PASS



Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025
Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025
6d Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/
RSE Test Software	Tonscend	JS36-RSE 5. 0.0	HKE-184	/

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

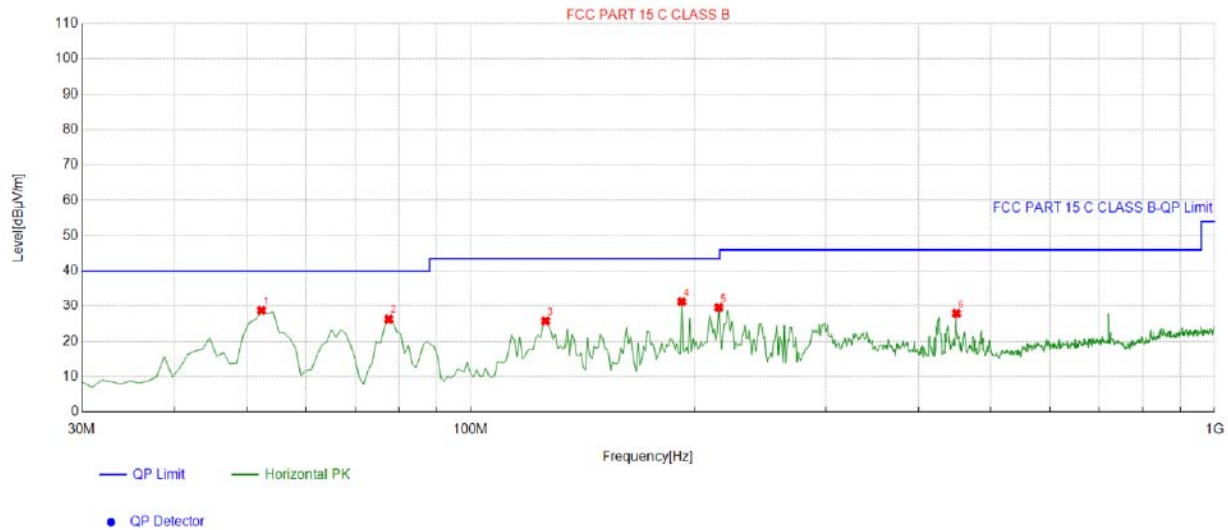


Test Data

All the test modes completed for test. only the worst result of (5V: 802.11b at 2412MHz) was reported as below:

Below 1GHz

Horizontal



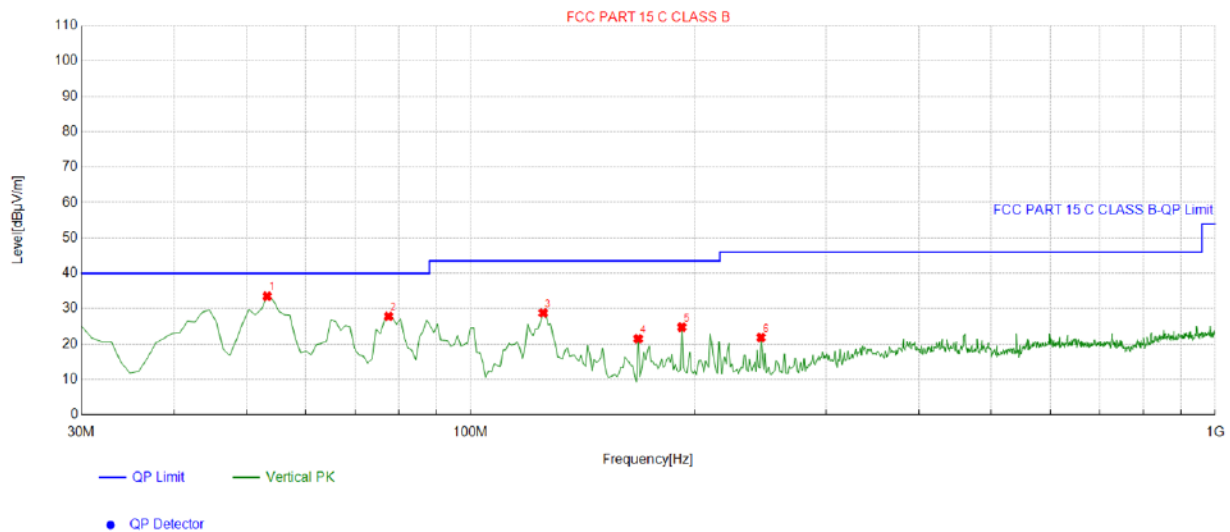
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.332332	-13.35	42.05	28.70	40.00	11.30	100	161	Horizontal
2	77.577578	-18.02	44.26	26.24	40.00	13.76	100	8	Horizontal
3	126.12612	-16.75	42.50	25.75	43.50	17.75	100	172	Horizontal
4	192.15215	-15.74	47.01	31.27	43.50	12.23	100	237	Horizontal
5	215.45545	-14.72	44.28	29.56	43.50	13.94	100	359	Horizontal
6	449.45945	-8.78	36.67	27.89	46.00	18.11	100	275	Horizontal

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



Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.303303	-13.66	47.19	33.53	40.00	6.47	100	83	Vertical
2	77.577578	-18.02	45.86	27.84	40.00	12.16	100	134	Vertical
3	125.15515	-16.61	45.39	28.78	43.50	14.72	100	42	Vertical
4	167.87787	-17.31	38.79	21.48	43.50	22.02	100	211	Vertical
5	192.15215	-15.74	40.50	24.76	43.50	18.74	100	179	Vertical
6	245.55555	-13.20	35.04	21.84	46.00	24.16	100	140	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)
--	--	--
--	--	--
--	--	--
--	--	--

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.

**Above 1GHz****Radiated Emission Test**

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	52.18	-3.64	48.54	74	-25.46	peak
4824	36.5	-3.64	32.86	54	-21.14	AVG
7236	49.21	-0.95	48.26	74	-25.74	peak
7236	30.89	-0.95	29.94	54	-24.06	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	51.06	-3.64	47.42	74	-26.58	peak
4824	35.21	-3.64	31.57	54	-22.43	AVG
7236	48.58	-0.95	47.63	74	-26.37	peak
7236	30.34	-0.95	29.39	54	-24.61	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	50.55	-3.51	47.04	74	-26.96	peak
4874	37.34	-3.51	33.83	54	-20.17	AVG
7311	50.05	-0.82	49.23	74	-24.77	peak
7311	32.7	-0.82	31.88	54	-22.12	AVG

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

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	52.11	-3.51	48.6	74	-25.4	peak
4874	36.64	-3.51	33.13	54	-20.87	AVG
7311	48.05	-0.82	47.23	74	-26.77	peak
7311	30.1	-0.82	29.28	54	-24.72	AVG

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

**HIGH CH11 (802.11b Mode)/2462****Horizontal:**

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	51.05	-3.43	47.62	74	-26.38	peak
4924	37.56	-3.43	34.13	54	-19.87	AVG
7386	48.44	-0.75	47.69	74	-26.31	peak
7386	32.48	-0.75	31.73	54	-22.27	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	49.27	-3.43	45.84	74	-28.16	peak
4924	37.84	-3.43	34.41	54	-19.59	AVG
7386	50.19	-0.75	49.44	74	-24.56	peak
7386	30.81	-0.75	30.06	54	-23.94	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 Fundamental 73.16dBuV/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.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	51.01	-3.64	47.37	74	-26.63	peak
4824	37.05	-3.64	33.41	54	-20.59	AVG
7236	47.88	-0.95	46.93	74	-27.07	peak
7236	31.13	-0.95	30.18	54	-23.82	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	51.29	-3.64	47.65	74	-26.35	peak
4824	36.94	-3.64	33.3	54	-20.7	AVG
7236	50.08	-0.95	49.13	74	-24.87	peak
7236	32.58	-0.95	31.63	54	-22.37	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	50.19	-3.51	46.68	74	-27.32	peak
4874	36.78	-3.51	33.27	54	-20.73	AVG
7311	49.44	-0.82	48.62	74	-25.38	peak
7311	30.69	-0.82	29.87	54	-24.13	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	50.85	-3.51	47.34	74	-26.66	peak
4874	35.87	-3.51	32.36	54	-21.64	AVG
7311	48.74	-0.82	47.92	74	-26.08	peak
7311	29.97	-0.82	29.15	54	-24.85	AVG

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



HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	49.39	-3.43	45.96	74	-28.04	peak
4924	37.01	-3.43	33.58	54	-20.42	AVG
7386	48.75	-0.75	48	74	-26	peak
7386	31.72	-0.75	30.97	54	-23.03	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.24	-3.43	47.81	74	-26.19	peak
4924	35.79	-3.43	32.36	54	-21.64	AVG
7386	50.11	-0.75	49.36	74	-24.64	peak
7386	32.78	-0.75	32.03	54	-21.97	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 Fundamental 73.16dBuV/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.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	52.08	-3.64	48.44	74	-25.56	peak
4824	36.16	-3.64	32.52	54	-21.48	AVG
7236	50.34	-0.95	49.39	74	-24.61	peak
7236	32.20	-0.95	31.25	54	-22.75	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	50.73	-3.64	47.09	74	-26.91	peak
4824	35.6	-3.64	31.96	54	-22.04	AVG
7236	48.33	-0.95	47.38	74	-26.62	peak
7236	30.4	-0.95	29.45	54	-24.55	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	49.78	-3.51	46.27	74.00	-27.73	peak
4874	35.29	-3.51	31.78	54.00	-22.22	AVG
7311	47.92	-0.82	47.10	74.00	-26.90	peak
7311	30.31	-0.82	29.49	54.00	-24.51	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	51.41	-3.51	47.90	74.00	-26.10	peak
4874	35.23	-3.51	31.72	54.00	-22.28	AVG
7311	48.08	-0.82	47.26	74.00	-26.74	peak
7311	32.19	-0.82	31.37	54.00	-22.63	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.1	-3.43	47.67	74	-26.33	
4924	37.3	-3.43	33.87	54	-20.13	AVG
7386	47.78	-0.75	47.03	74	-26.97	peak
7386	31.82	-0.75	31.07	54	-22.93	AVG

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

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	50.42	-3.43	46.99	74	-27.01	
4924	36.65	-3.43	33.22	54	-20.78	AVG
7386	49.88	-0.75	49.13	74	-24.87	peak
7386	30.76	-0.75	30.01	54	-23.99	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 Fundamental 73.16dBuV/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.



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	50.18	-3.63	46.55	74	-27.45	peak
4844	37.69	-3.63	34.06	54	-19.94	AVG
7266	49.06	-0.94	48.12	74	-25.88	peak
7266	30.21	-0.94	29.27	54	-24.73	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	49.77	-3.63	46.14	74	-27.86	peak
4844	34.93	-3.63	31.3	54	-22.7	AVG
7266	47.90	-0.94	46.96	74	-27.04	peak
7266	30.62	-0.94	29.68	54	-24.32	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	50.84	-3.51	47.33	74	-26.67	peak
4874	34.93	-3.51	31.42	54	-22.58	AVG
7311	48.3	-0.82	47.48	74	-26.52	peak
7311	31.08	-0.82	30.26	54	-23.74	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	51.05	-3.51	47.54	74	-26.46	peak
4874	35.55	-3.51	32.04	54	-21.96	AVG
7311	49.23	-0.82	48.41	74	-25.59	peak
7311	32.03	-0.82	31.21	54	-22.79	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	50.58	-3.43	47.15	74	-26.85	peak
4904	36.09	-3.43	32.66	54	-21.34	AVG
7356	49.92	-0.75	49.17	74	-24.83	peak
7356	32.40	-0.75	31.65	54	-22.35	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	51.8	-3.43	48.37	74	-25.63	peak
4904	37.16	-3.43	33.73	54	-20.27	AVG
7356	47.95	-0.75	47.2	74	-26.8	peak
7356	31.01	-0.75	30.26	54	-23.74	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.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	52.08	-3.64	48.44	74	-25.56	peak
4824	36.16	-3.64	32.52	54	-21.48	AVG
7236	50.34	-0.95	49.39	74	-24.61	peak
7236	32.20	-0.95	31.25	54	-22.75	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	50.73	-3.64	47.09	74	-26.91	peak
4824	35.6	-3.64	31.96	54	-22.04	AVG
7236	48.33	-0.95	47.38	74	-26.62	peak
7236	30.4	-0.95	29.45	54	-24.55	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	50.24	-3.51	46.73	74.00	-27.27	peak
4874	35.45	-3.51	31.94	54.00	-22.06	AVG
7311	47.93	-0.82	47.11	74.00	-26.89	peak
7311	31.15	-0.82	30.33	54.00	-23.67	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	49.21	-3.51	45.70	74.00	-28.30	peak
4874	35.62	-3.51	32.11	54.00	-21.89	AVG
7311	48.52	-0.82	47.70	74.00	-26.30	peak
7311	30.55	-0.82	29.73	54.00	-24.27	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit						



HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	51.93	-3.43	48.5	74	-25.5	
4924	35.14	-3.43	31.71	54	-22.29	AVG
7386	48.04	-0.75	47.29	74	-26.71	peak
7386	32.68	-0.75	31.93	54	-22.07	AVG

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

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	50.17	-3.43	46.74	74	-27.26	
4924	36.58	-3.43	33.15	54	-20.85	AVG
7386	48.85	-0.75	48.1	74	-25.9	peak
7386	31.61	-0.75	30.86	54	-23.14	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 Fundamental 73.16dBuV/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.

**Test Result of Radiated Spurious at Band edges**

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	50.46	-5.81	44.65	74	-29.35	peak
2310	/	-5.81	/	54	/	AVG
2390	52.24	-5.84	46.4	74	-27.6	peak
2390	/	-5.84	/	54	/	AVG
2400	53.11	-5.84	47.27	74	-26.73	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	55.09	-5.81	49.28	74	-24.72	peak
2310	/	-5.81	/	54	/	AVG
2390	54.23	-5.84	48.39	74	-25.61	peak
2390	/	-5.84	/	54	/	AVG
2400	53.99	-5.84	48.15	74	-25.85	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2462MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.23	-5.65	49.58	74	-24.42	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.09	-5.65	48.44	74	-25.56	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.99	-5.65	47.34	74	-26.66	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.11	-5.65	47.46	74	-26.54	peak
2500.00	/	-5.65	/	54	/	AVG
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.						



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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	54.54	-5.81	48.73	74	-25.27	peak
2310	/	-5.81	/	54	/	AVG
2390	56.23	-5.84	50.39	74	-23.61	peak
2390	/	-5.84	/	54	/	AVG
2400	55	-5.84	49.16	74	-24.84	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	54.23	-5.81	48.42	74	-25.58	peak
2310	/	-5.81	/	54	/	AVG
2390	55.33	-5.84	49.49	74	-24.51	peak
2390	/	-5.84	/	54	/	AVG
2400	53.32	-5.84	47.48	74	-26.52	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2462MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.87	-5.65	49.22	74	-24.78	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	56.23	-5.65	50.58	74	-23.42	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.11	-5.65	48.46	74	-25.54	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.12	-5.65	49.47	74	-24.53	peak
2500.00	/	-5.65	/	54	/	AVG
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.						



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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	54.23	-5.81	48.42	74	-25.58	peak
2310	/	-5.81	/	54	/	AVG
2390	55.34	-5.84	49.5	74	-24.5	peak
2390	/	-5.84	/	54	/	AVG
2400	56.42	-5.84	50.58	74	-23.42	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	54.34	-5.81	48.53	74	-25.47	peak
2310	/	-5.81	/	54	/	AVG
2390	53.22	-5.84	47.38	74	-26.62	peak
2390	/	-5.84	/	54	/	AVG
2400	54.03	-5.84	48.19	74	-25.81	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2462MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	51.68	-5.65	46.03	74	-27.97	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	51.39	-5.65	45.74	74	-28.26	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	51.73	-5.65	46.08	74	-27.92	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	52.17	-5.65	46.52	74	-27.48	peak
2500.00	/	-5.65	/	54	/	AVG
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.						



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	50.29	-5.81	44.48	74	-29.52	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	54.21	-5.84	48.37	74	-25.63	peak
2390.00	/	-5.84	/	54	/	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310.00	51.73	-5.81	45.92	74	-28.08	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	51.43	-5.84	45.59	74	-28.41	peak
2390.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.2	-5.65	46.55	74	-27.45	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.68	-5.65	48.03	74	-25.97	peak
2500.00	/	-5.65	/	54	/	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.23	-5.65	48.58	74	-25.42	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.05	-5.65	49.4	74	-24.6	peak
2500.00	/	-5.65	/	54	/	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.						



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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	54.89	-5.81	49.08	74	-24.92	peak
2310	/	-5.81	/	54	/	AVG
2390	55.78	-5.84	49.94	74	-24.06	peak
2390	/	-5.84	/	54	/	AVG
2400	54.53	-5.84	48.69	74	-25.31	peak
2400	/	-5.84	/	54	/	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	52.55	-5.81	46.74	74	-27.26	peak
2310	/	-5.81	/	54	/	AVG
2390	53.62	-5.84	47.78	74	-26.22	peak
2390	/	-5.84	/	54	/	AVG
2400	53.96	-5.84	48.12	74	-25.88	peak
2400	/	-5.84	/	54	/	AVG

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



Operation Mode: TX CH High (2462MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.99	-5.65	49.34	74	-24.66	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.19	-5.65	49.54	74	-24.46	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	52.95	-5.65	47.3	74	-26.7	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	55.02	-5.65	49.37	74	-24.63	peak
2500.00	/	-5.65	/	54	/	AVG
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.						

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.



4.8. 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 than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

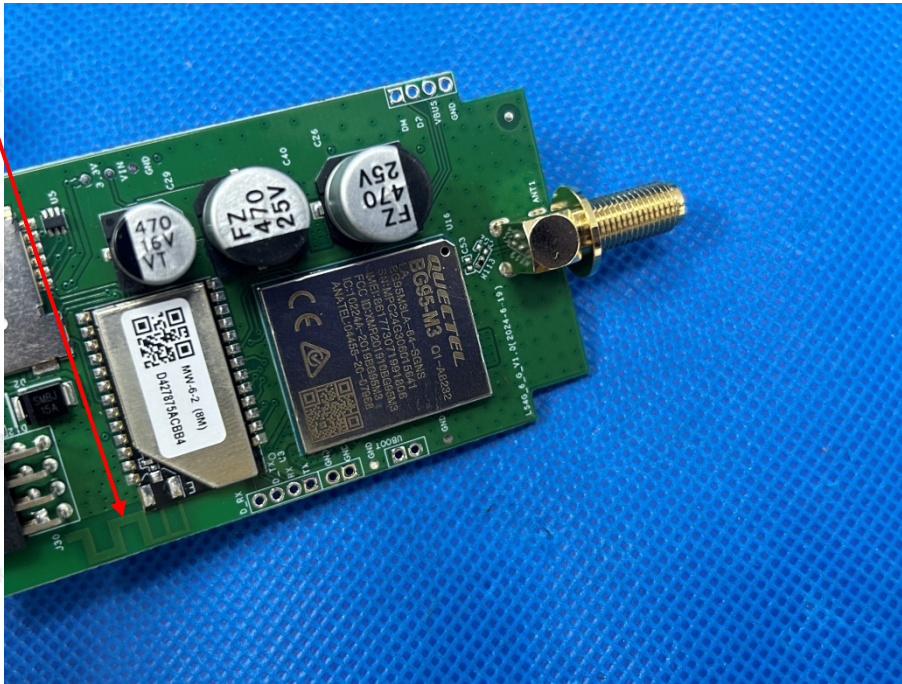
Refer to statement below for compliance.

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. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0.44dBi.

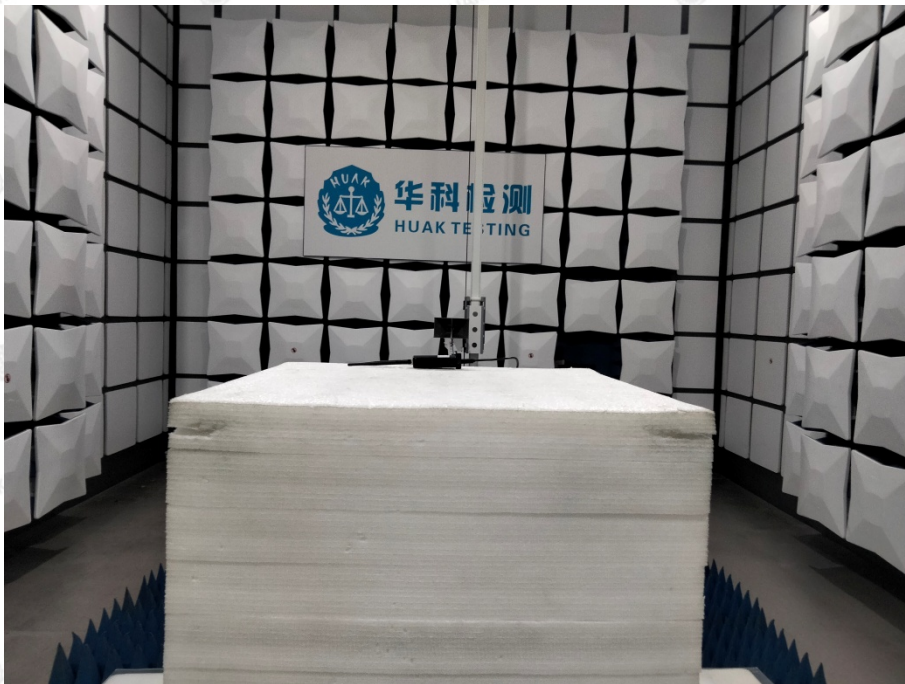
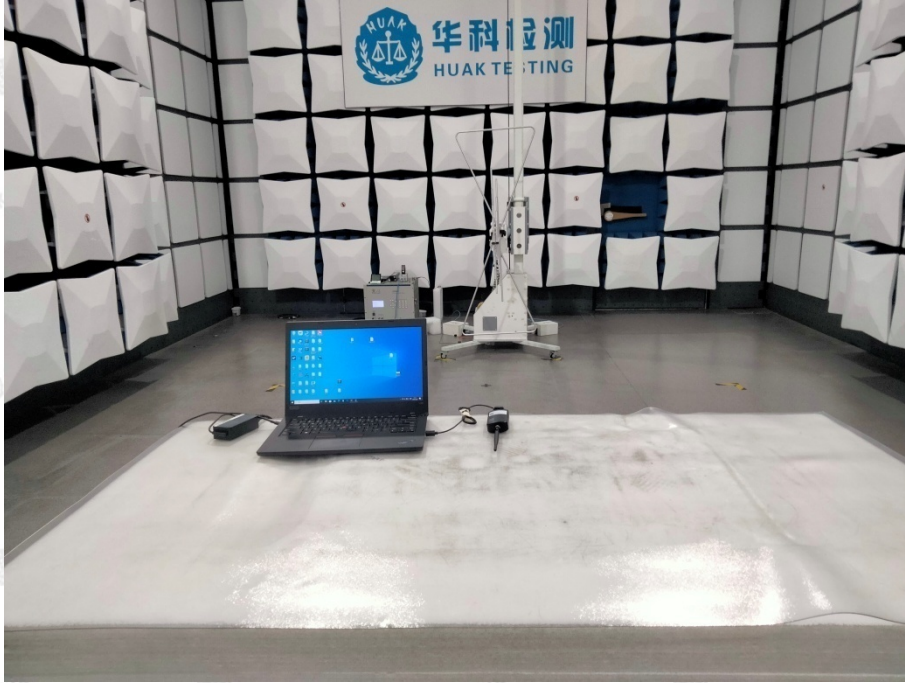
Antenna





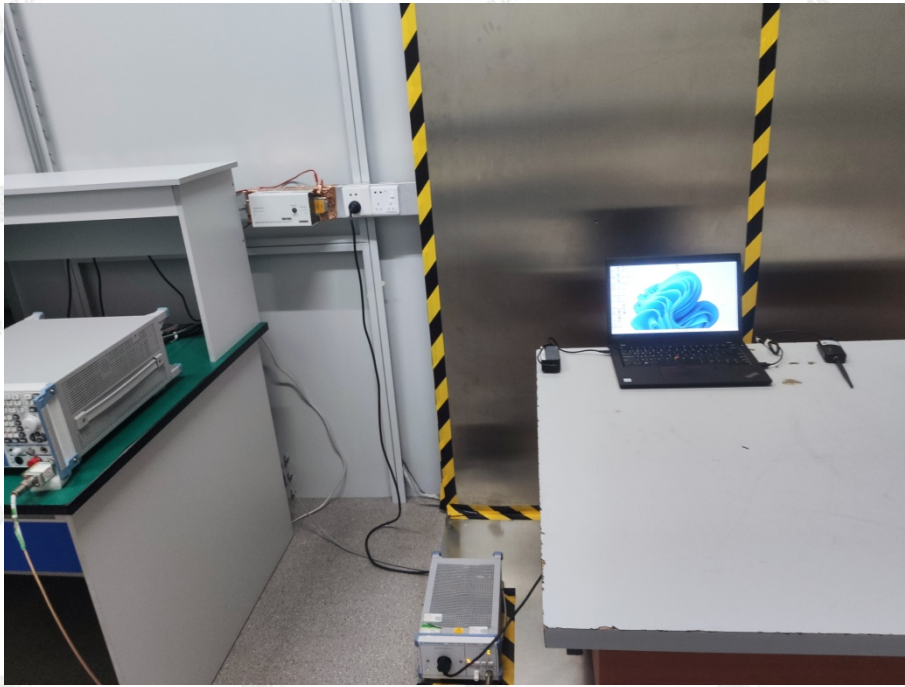
5. Photograph of Test

Radiated Emission





Conducted Emission





6. Photos of the EUT

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

-----End of test report-----