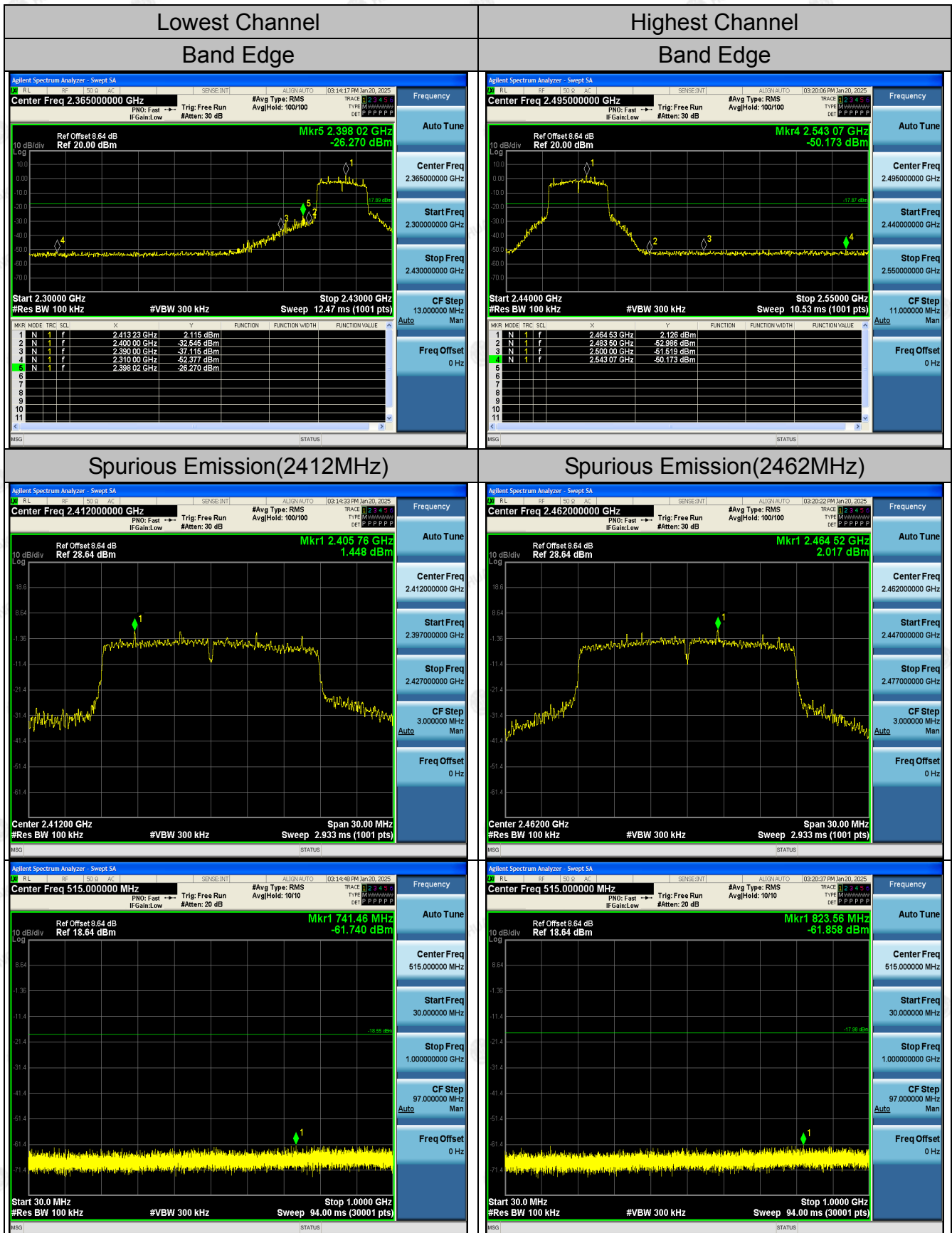




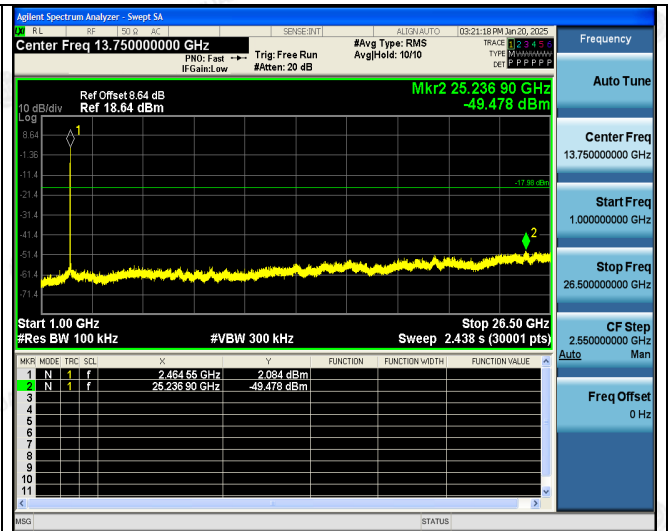
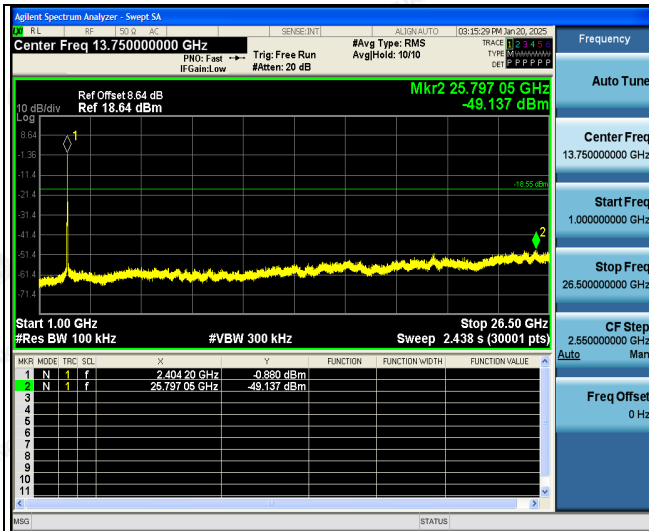
802.11n(HT20) Modulation



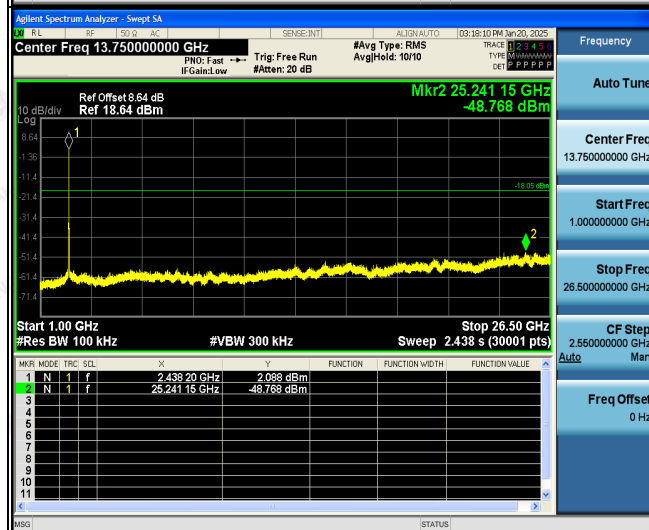
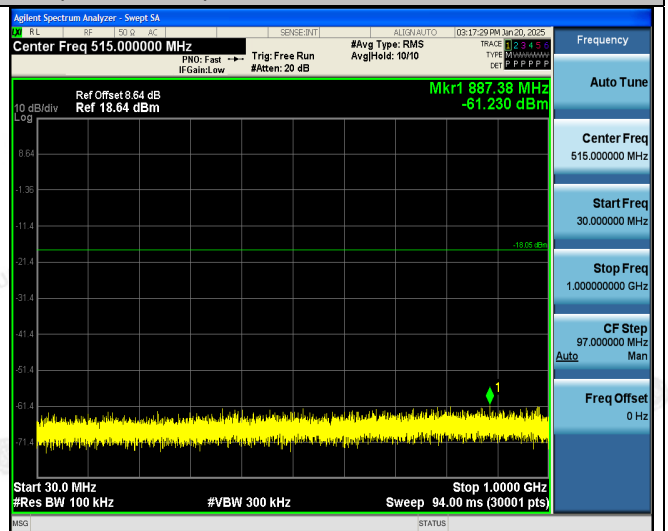
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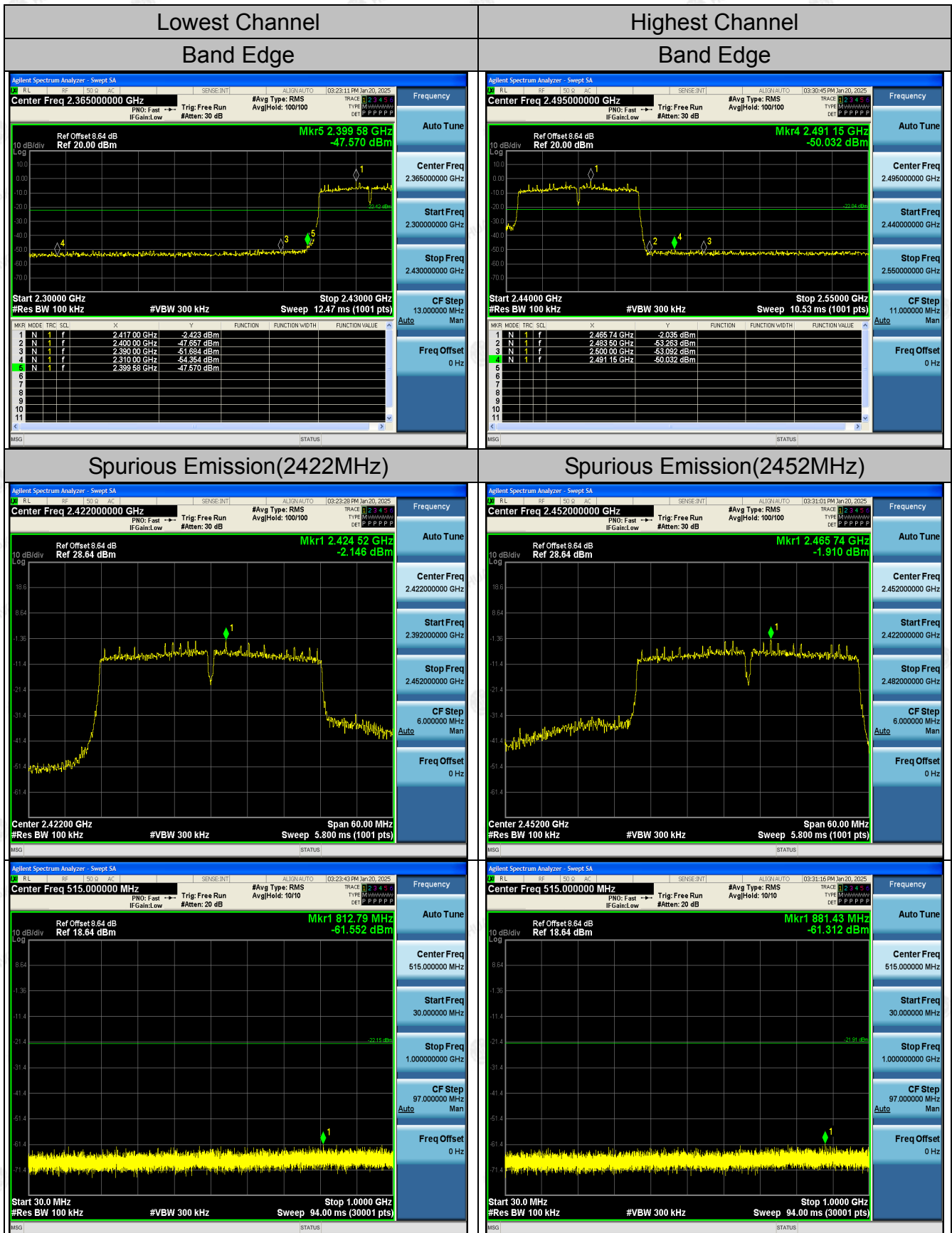


Spurious Emission(2437MHz)





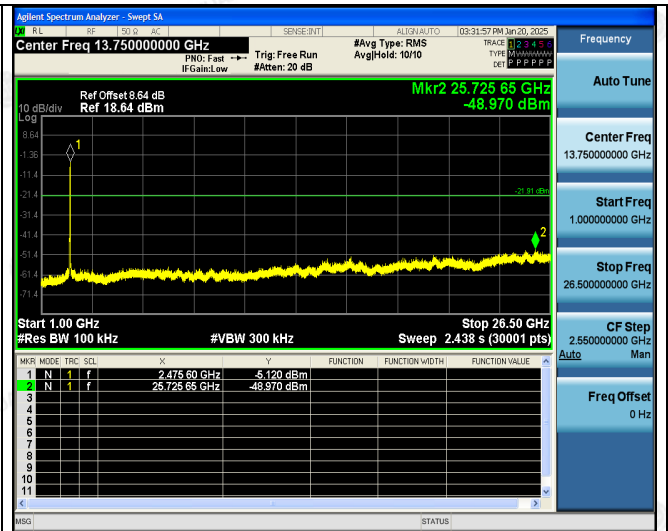
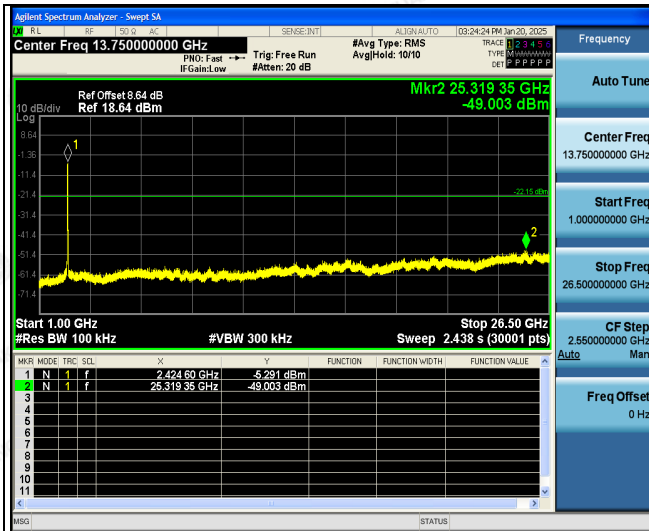
802.11n(HT40) Modulation



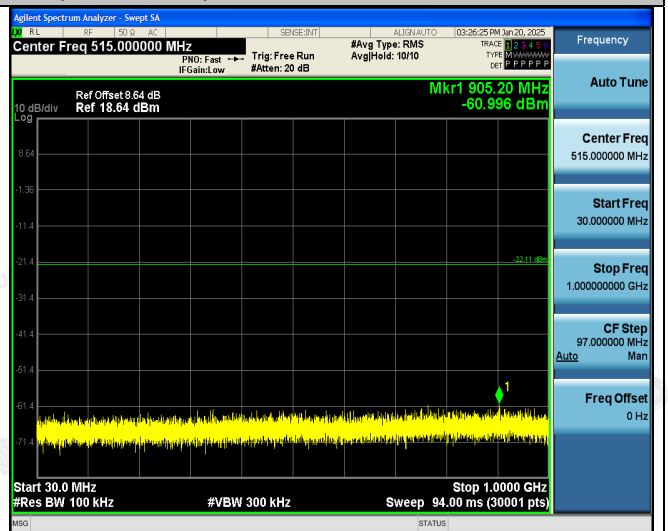
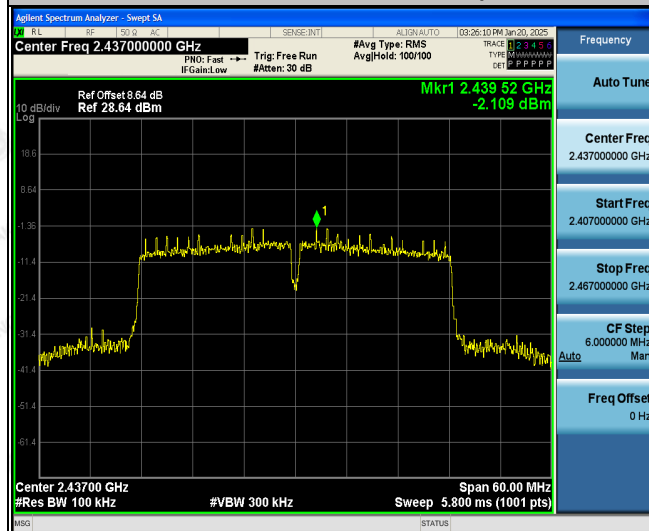
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Spurious Emission(2437MHz)





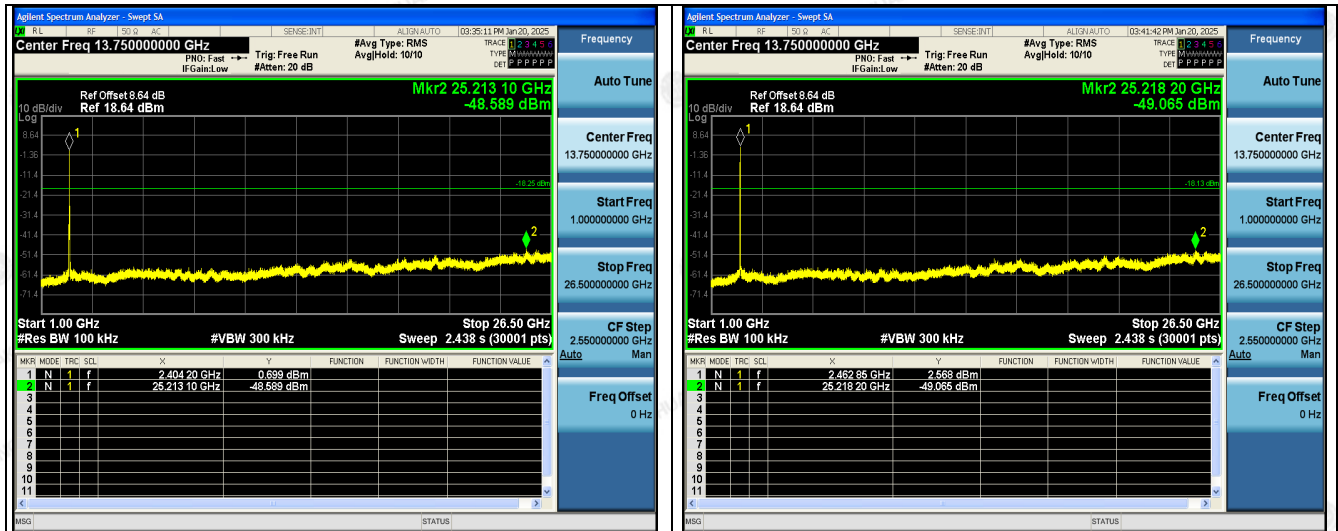
802.11ac(HT20) Modulation



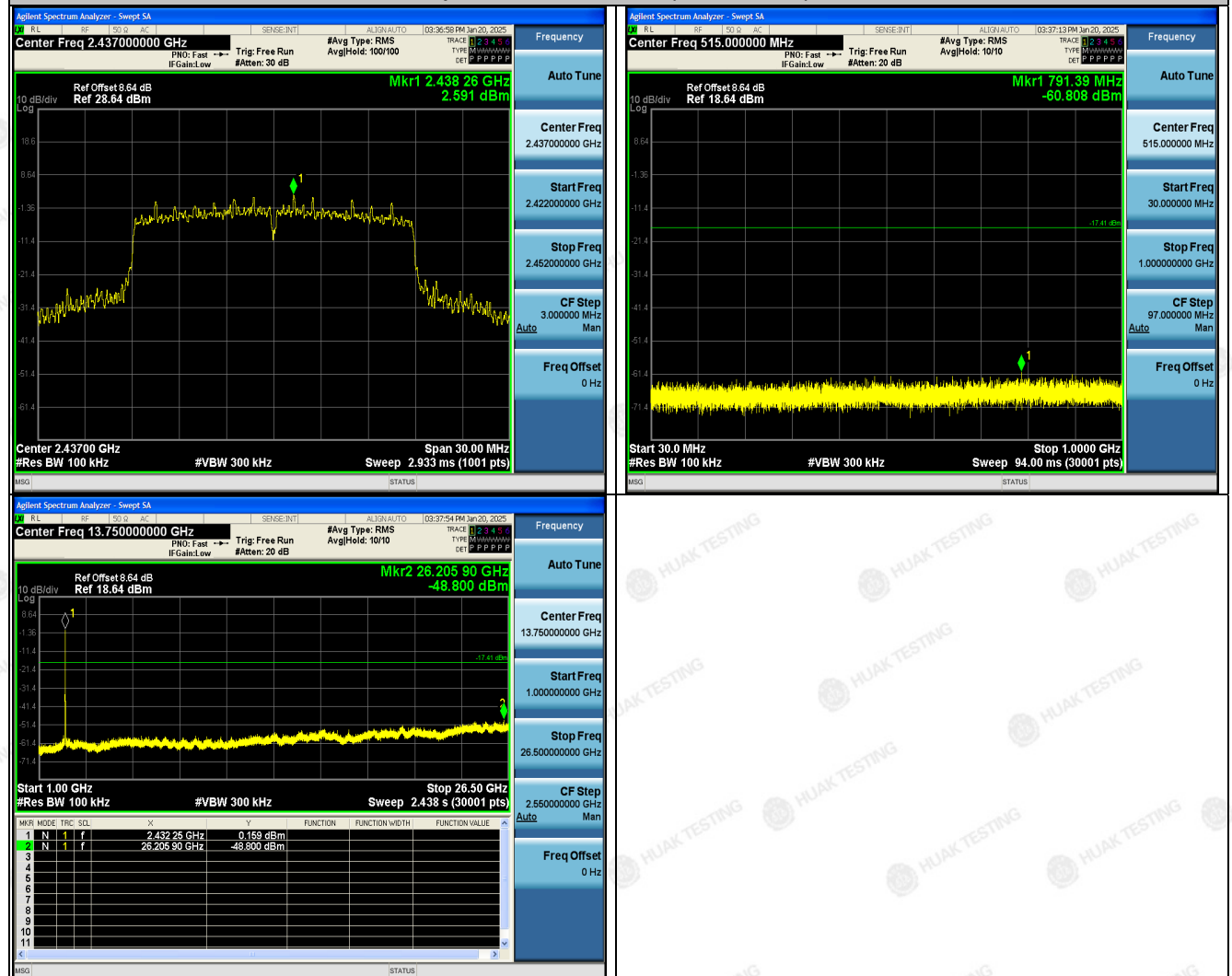
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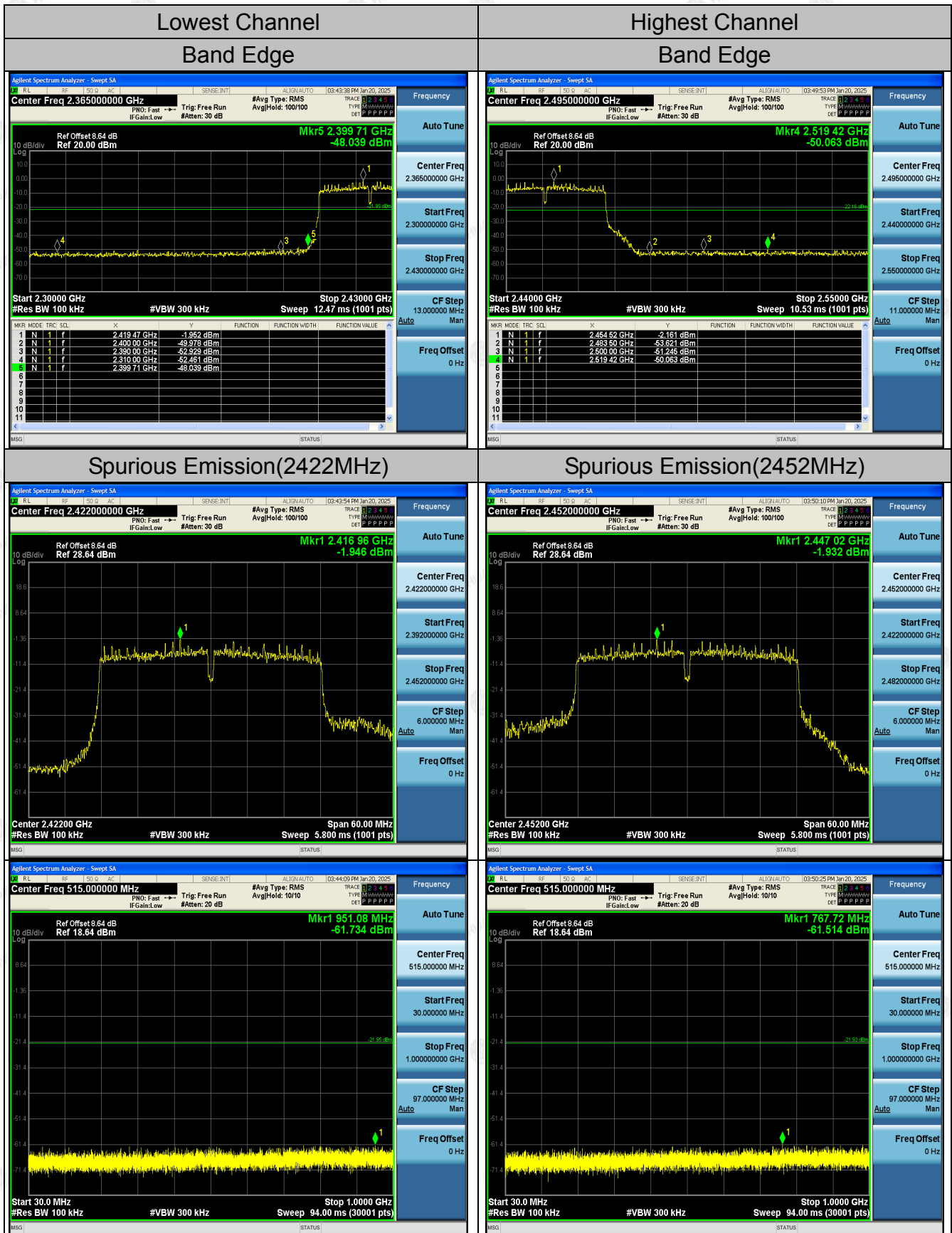


Spurious Emission(2437MHz)





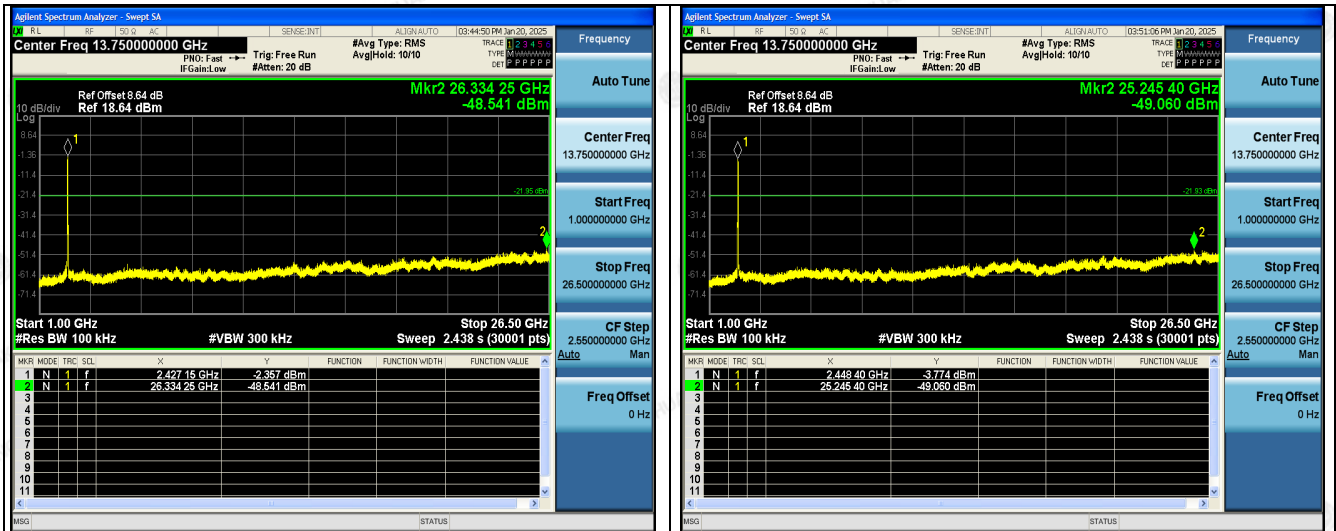
802.11ac(HT40) Modulation



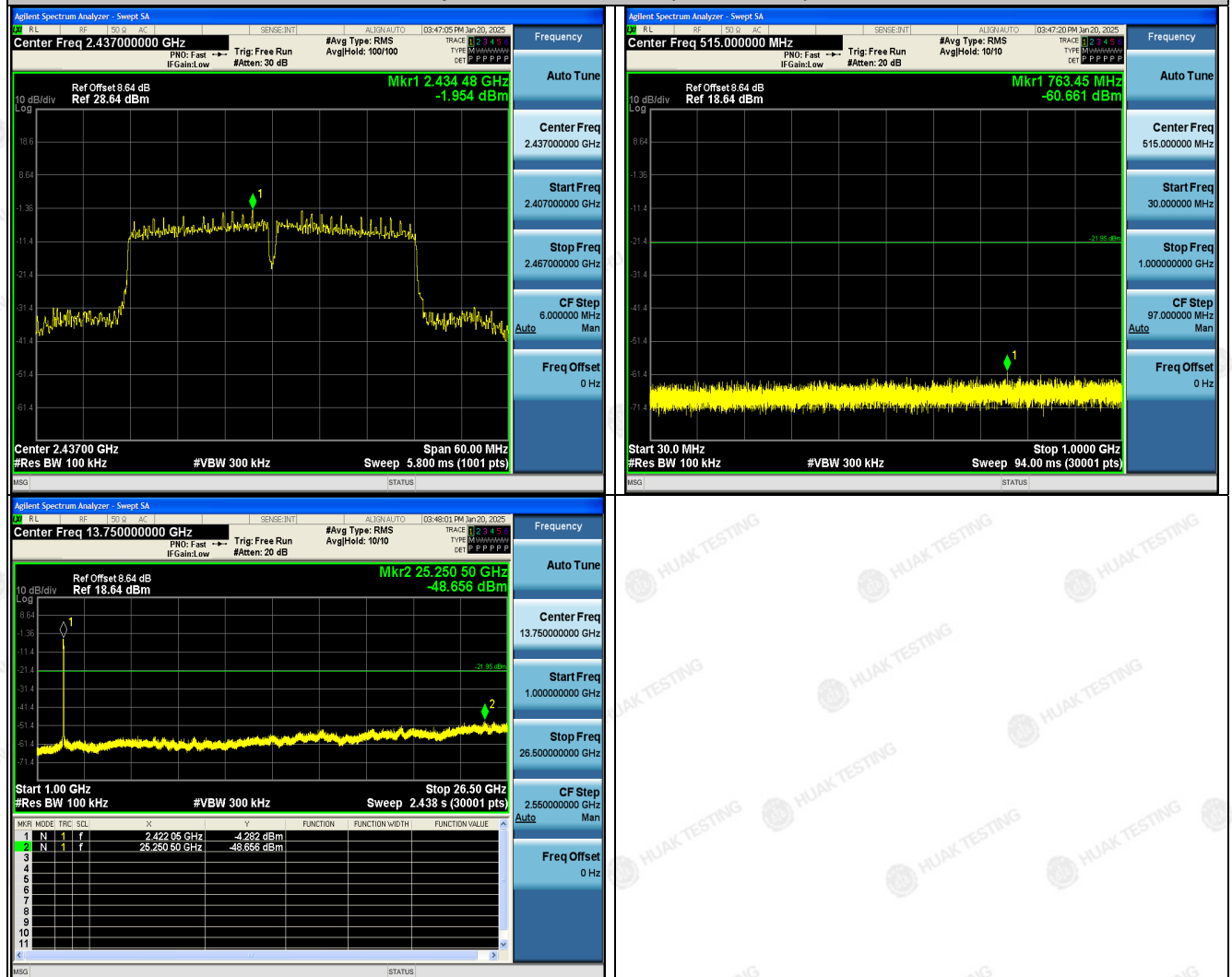
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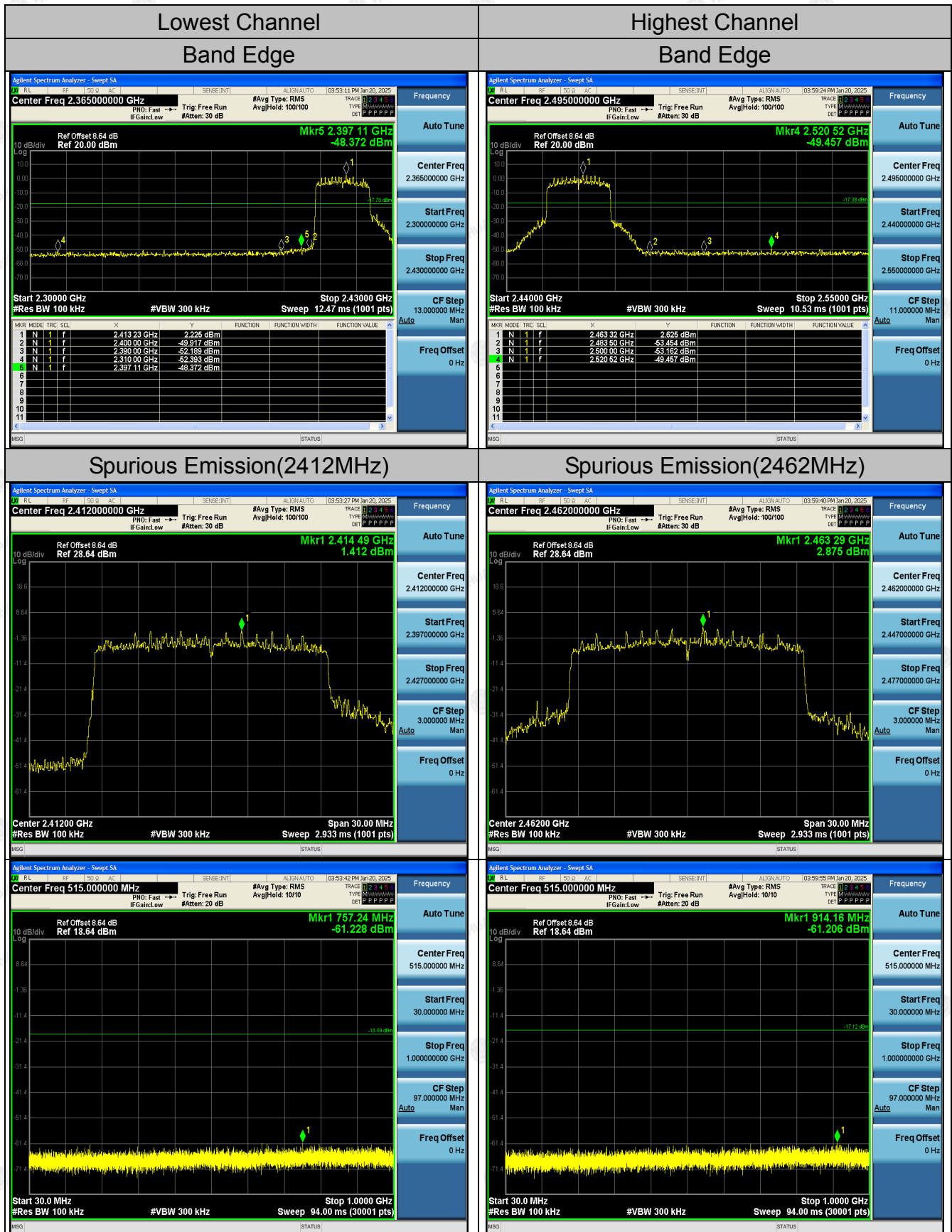


Spurious Emission(2437MHz)





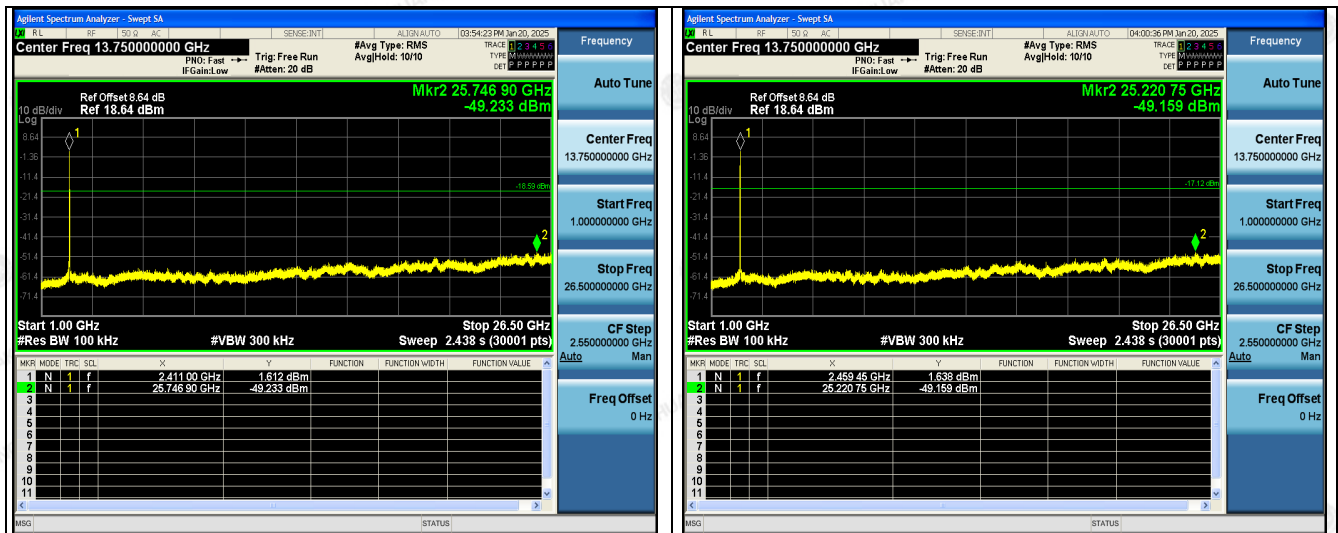
802.11ax(HE20) Modulation



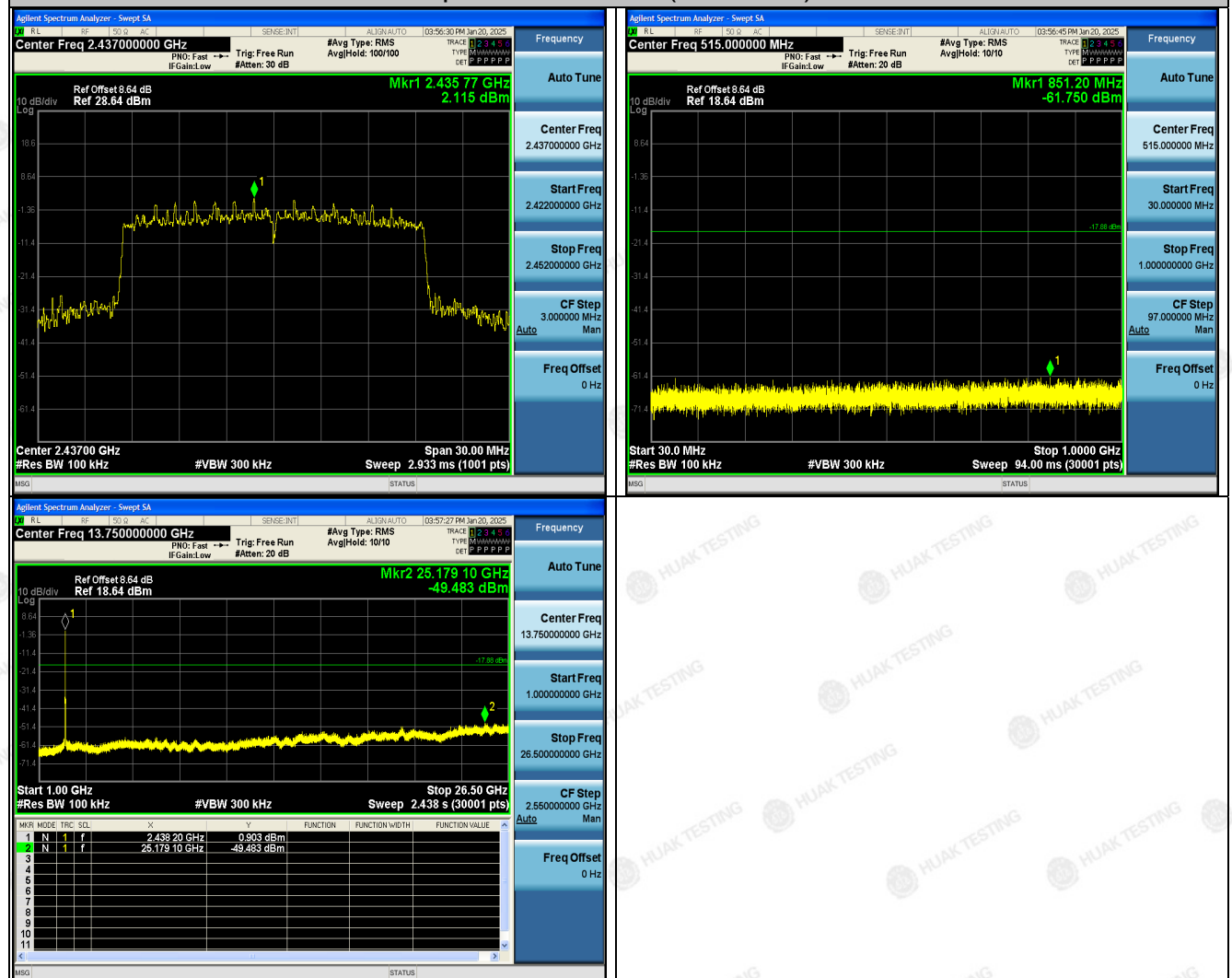
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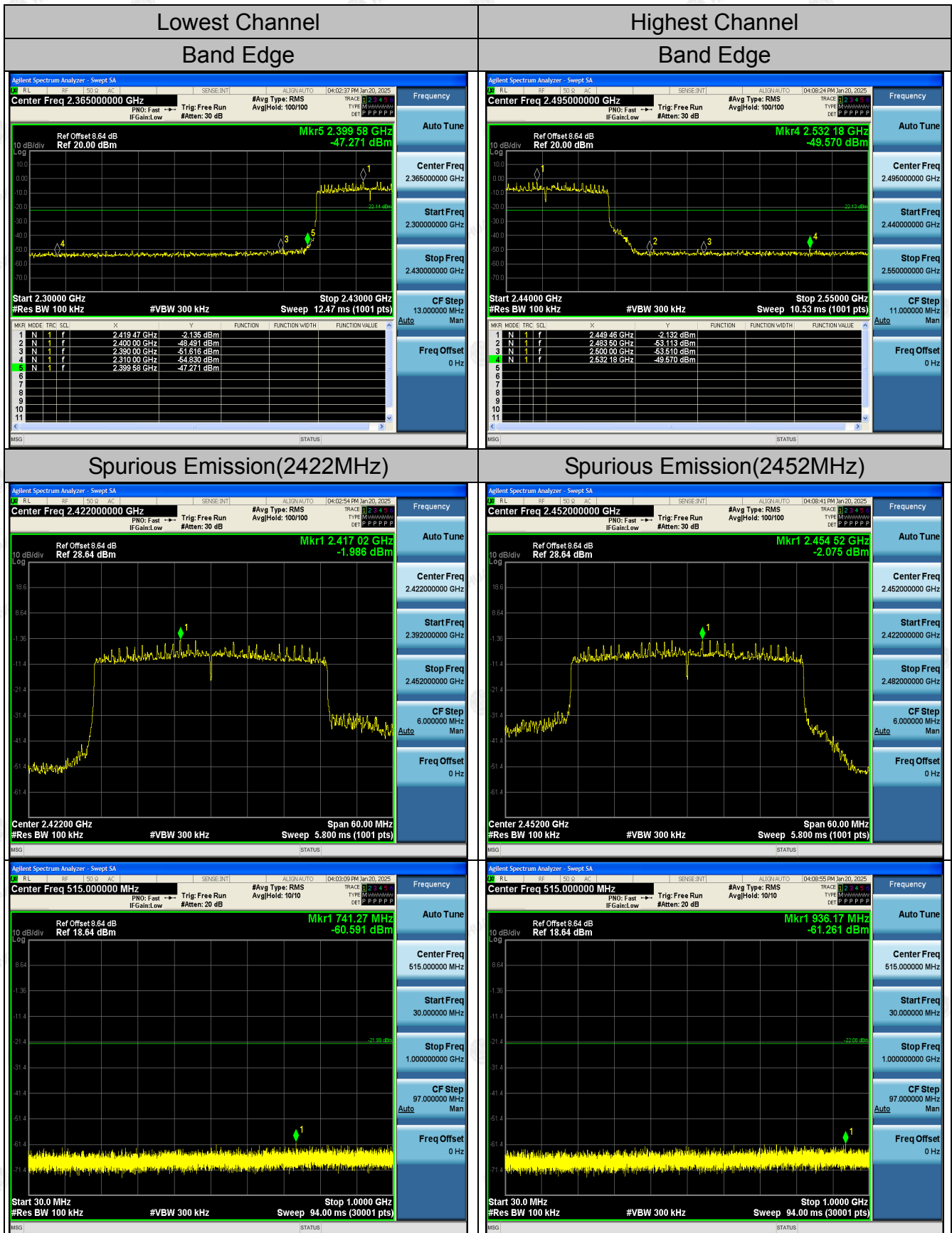


Spurious Emission(2437MHz)





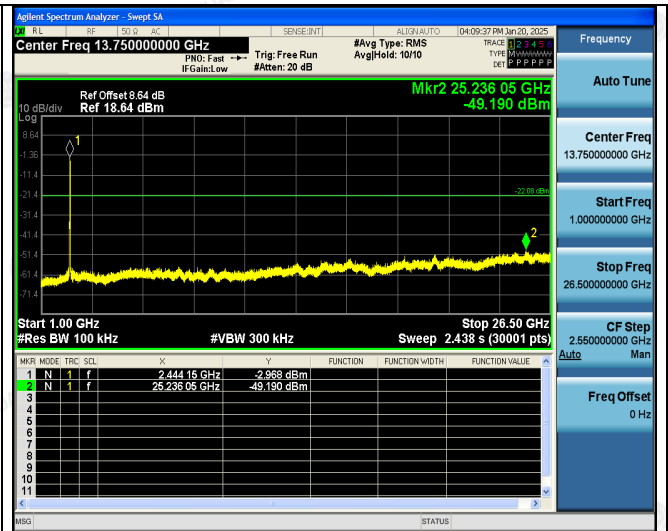
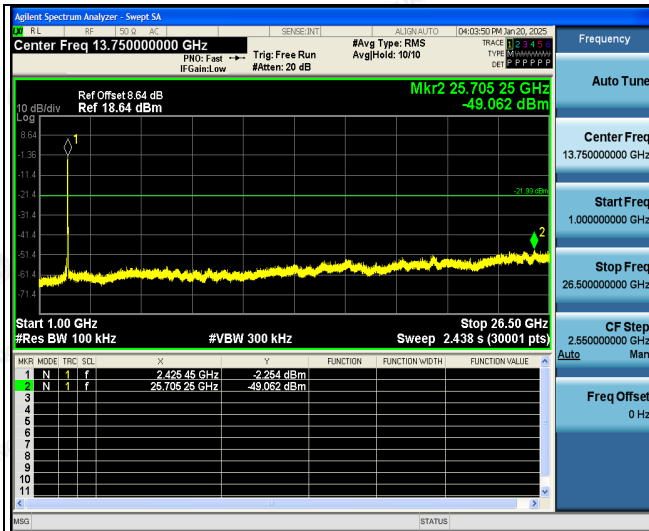
802.11ax(HE40) Modulation



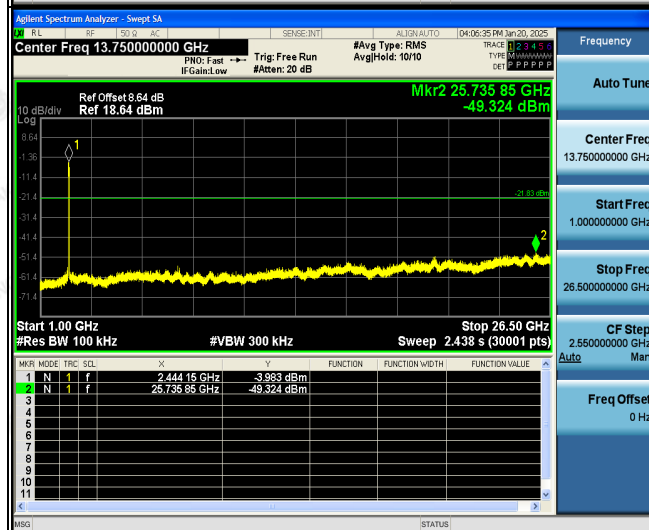
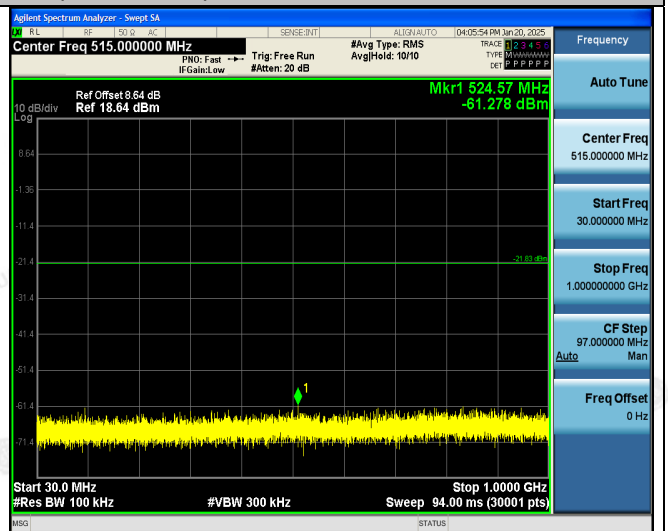
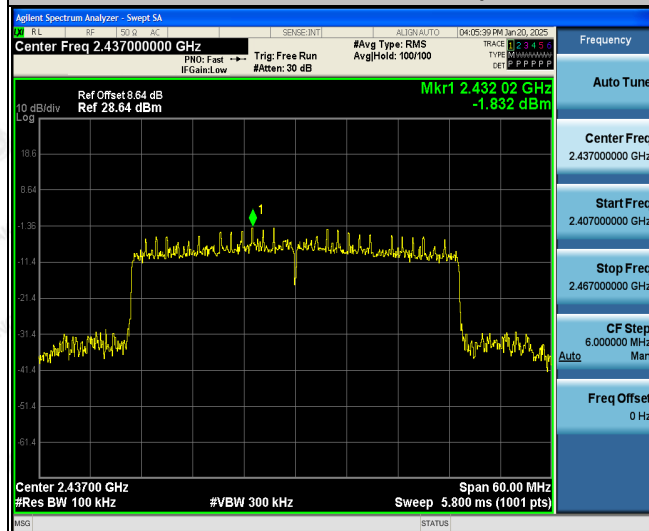
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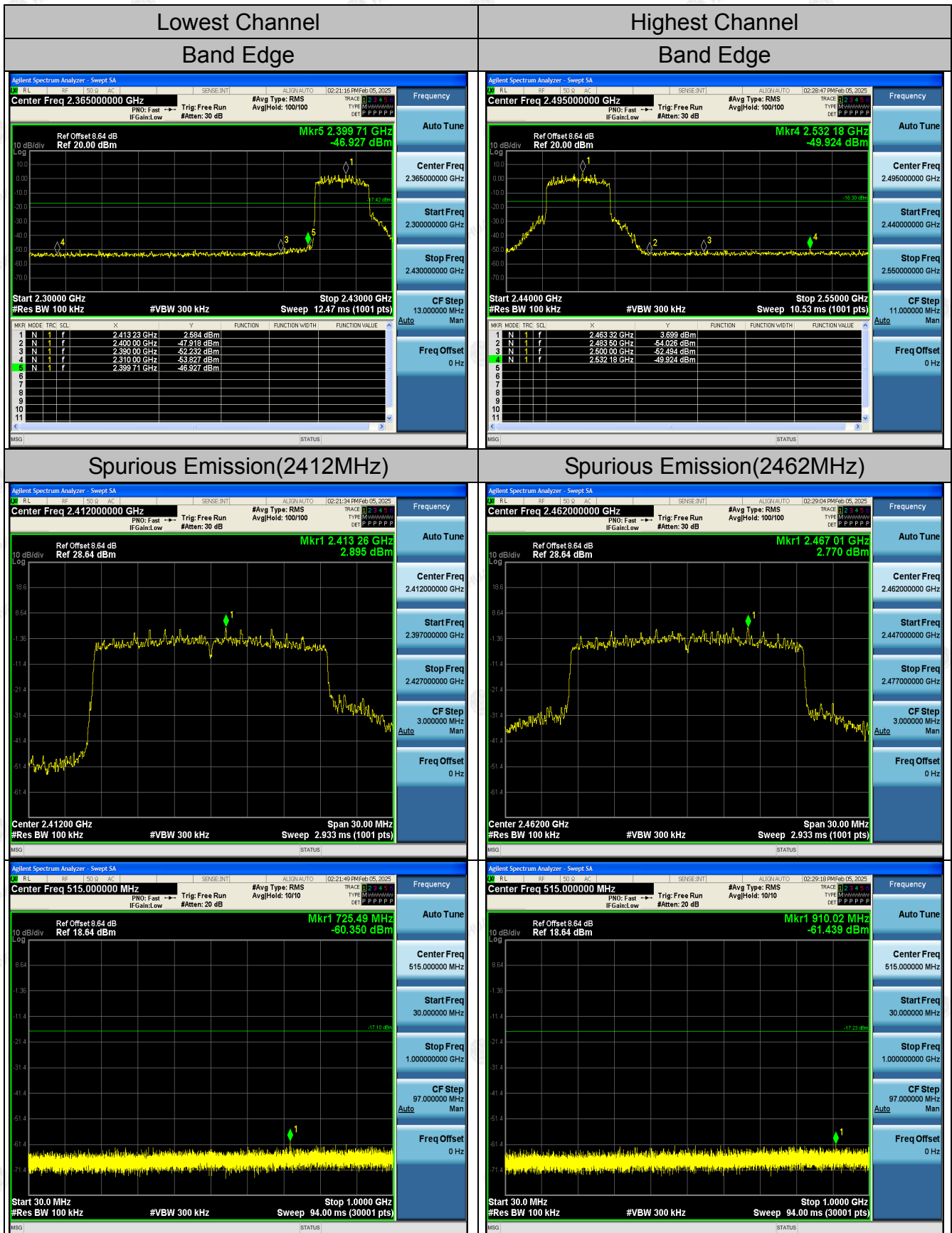


Spurious Emission(2437MHz)





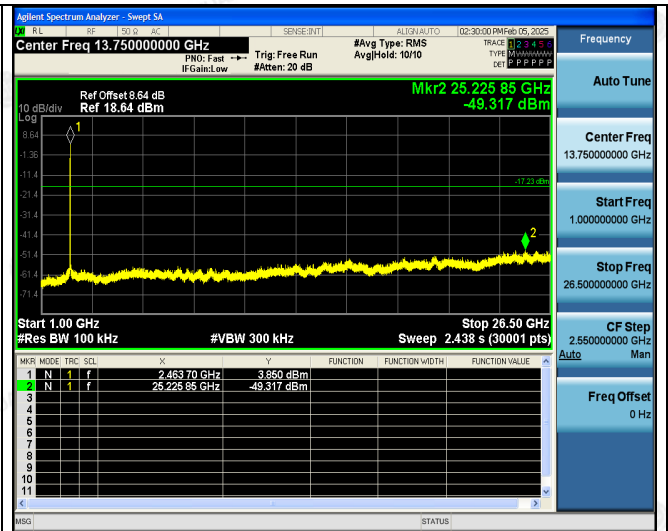
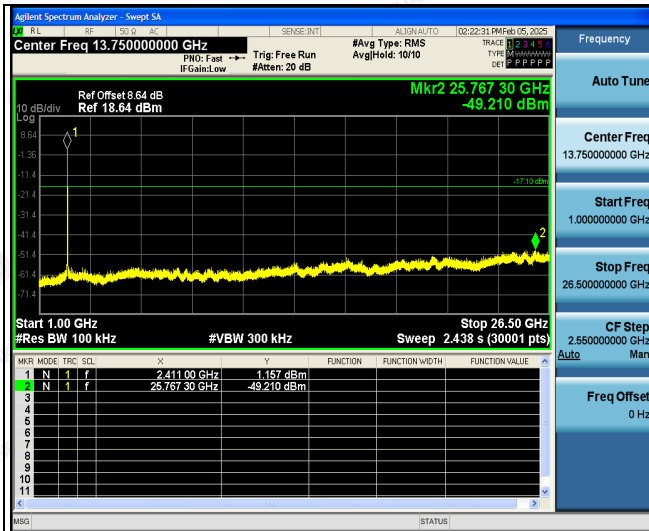
802.11be(EHT20) Modulation



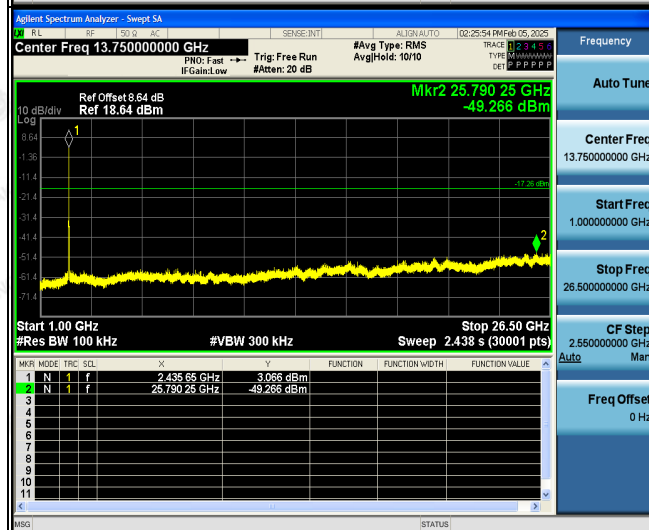
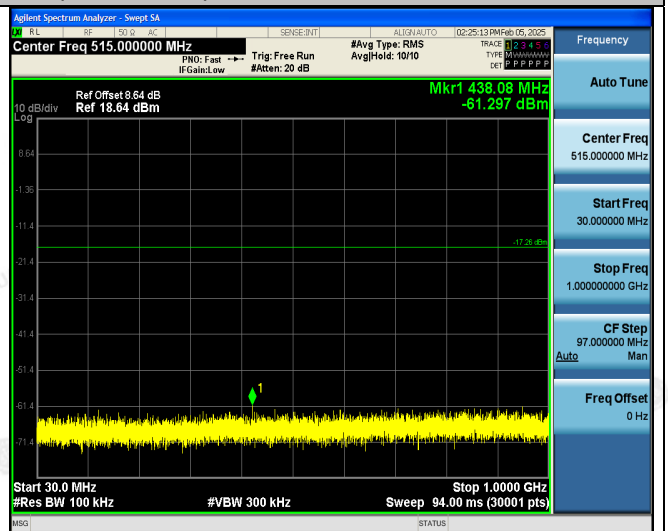
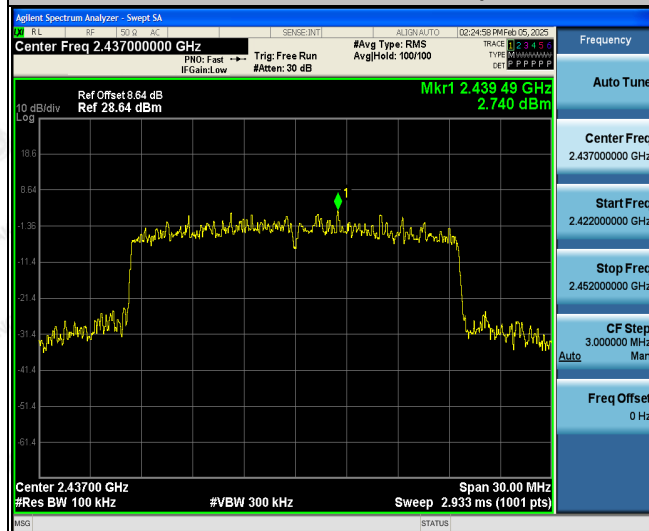
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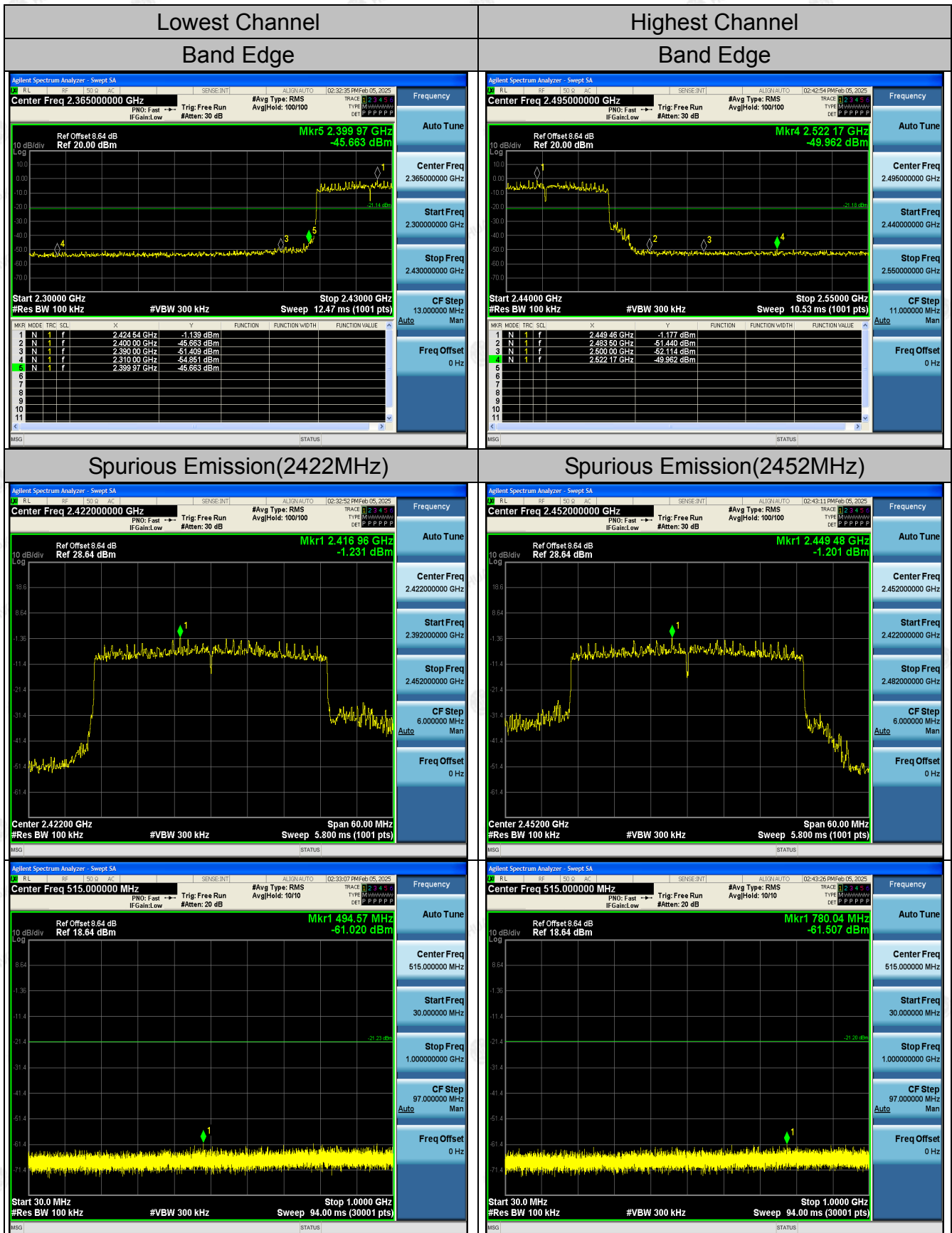


Spurious Emission(2437MHz)





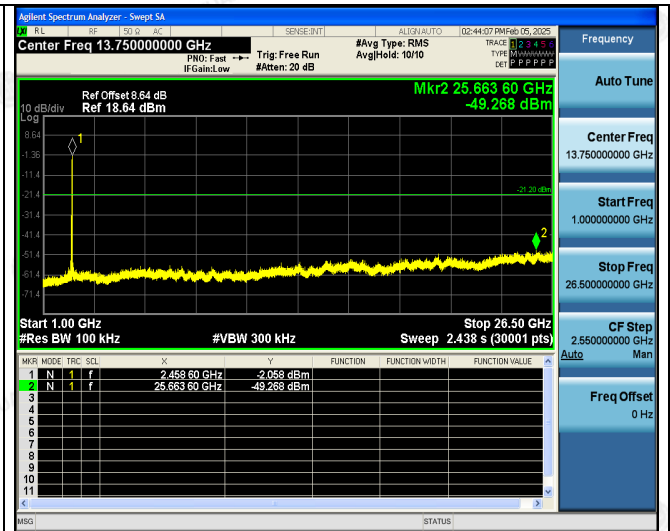
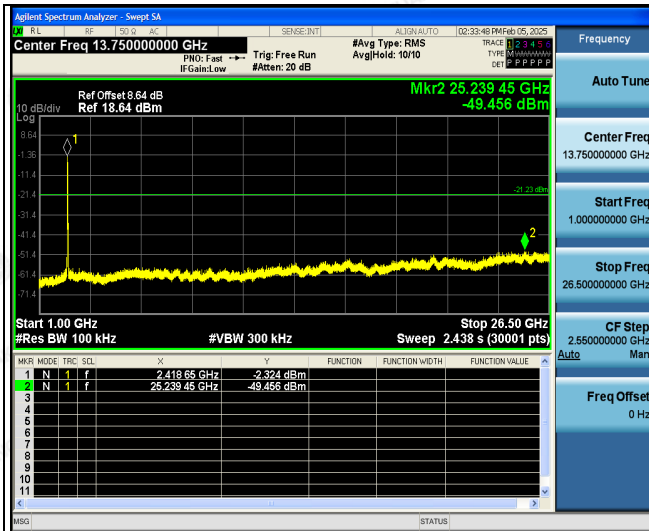
802.11be(EHT40) Modulation



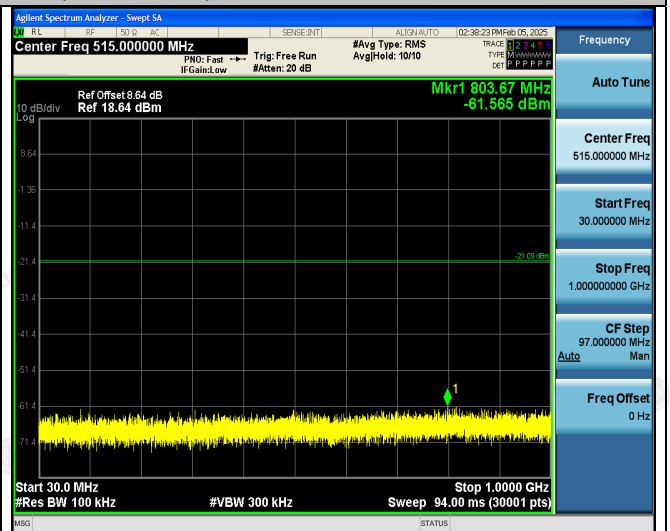
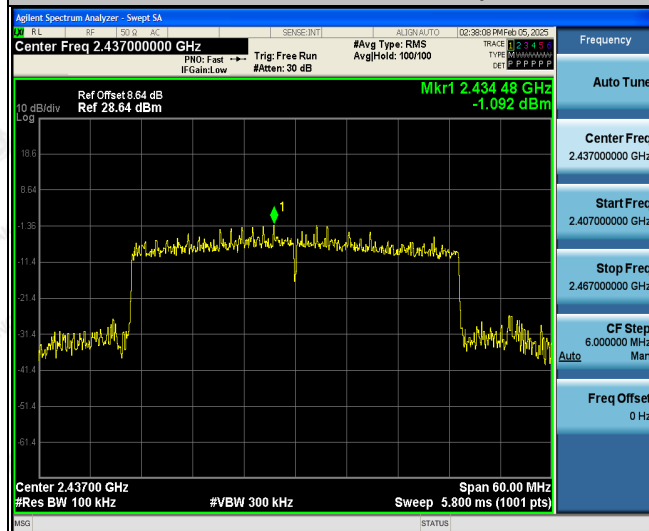
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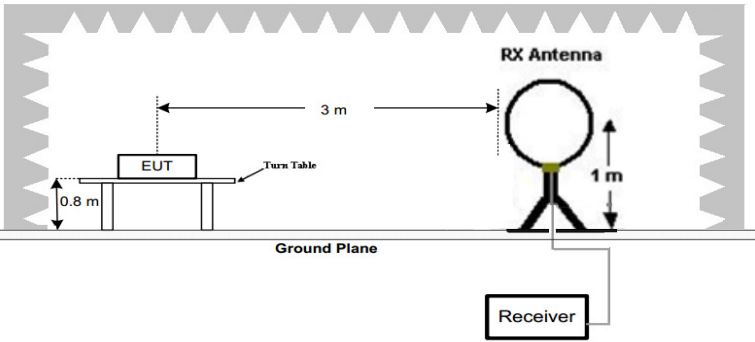
Spurious Emission(2437MHz)

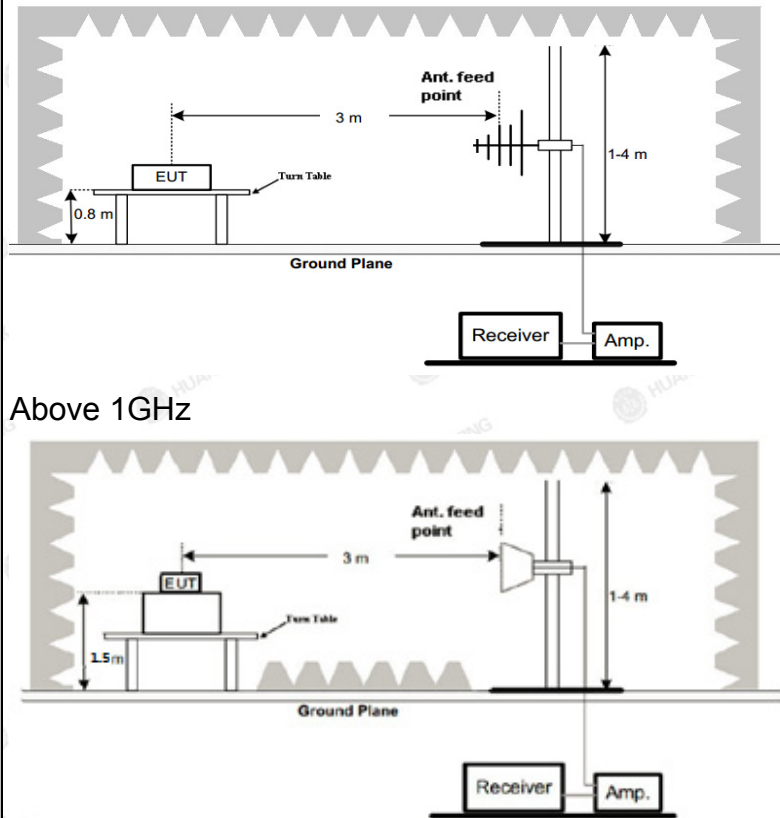




4.6 Radiated Spurious Emission Measurement

4.6.1 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
Test Setup:				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:	30-88	100	3	
	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
Test Setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
Test Setup:	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.



	<p>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.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>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.</p> <p>5. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=100 kHz for $f < 1 \text{ GHz}$; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1 \text{ GHz}$ for peak measurement.</p> <p>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.</p>
Test results:	PASS



4.6.2 Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
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).

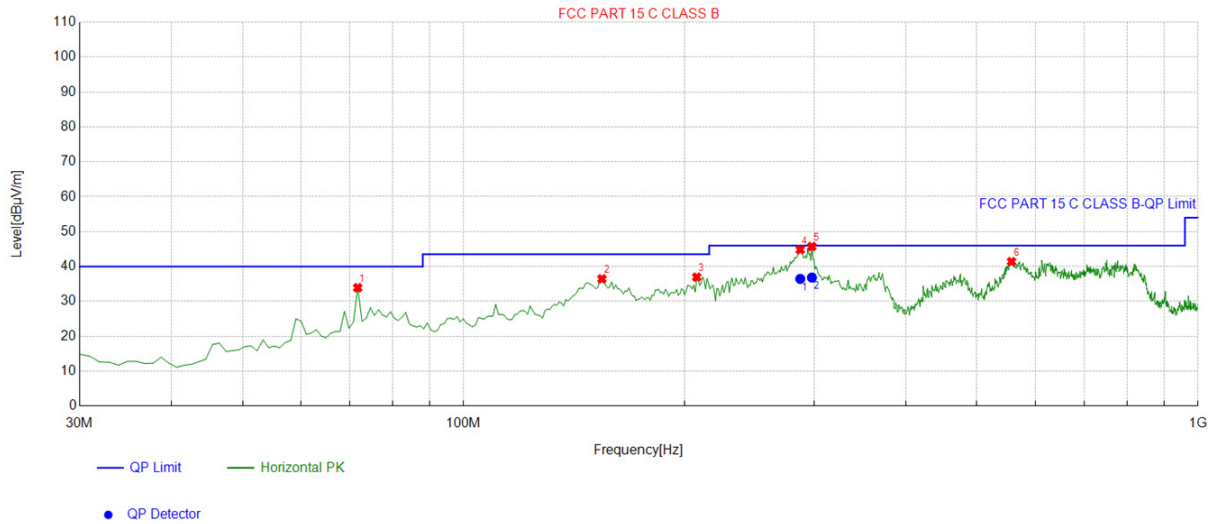


4.6.3 Test Data

All the test modes completed for test. Only the worst result of 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	71.751752	-17.38	51.30	33.92	40.00	6.08	100	239	Horizontal
2	154.28428	-17.76	54.21	36.45	43.50	7.05	100	210	Horizontal
3	207.68768	-15.09	52.03	36.94	43.50	6.56	100	68	Horizontal
4	287.30730	-12.28	57.09	44.81	46.00	1.19	100	201	Horizontal
5	297.98798	-11.79	57.52	45.73	46.00	0.27	100	218	Horizontal
6	557.23723	-6.48	47.87	41.39	46.00	4.61	100	129	Horizontal

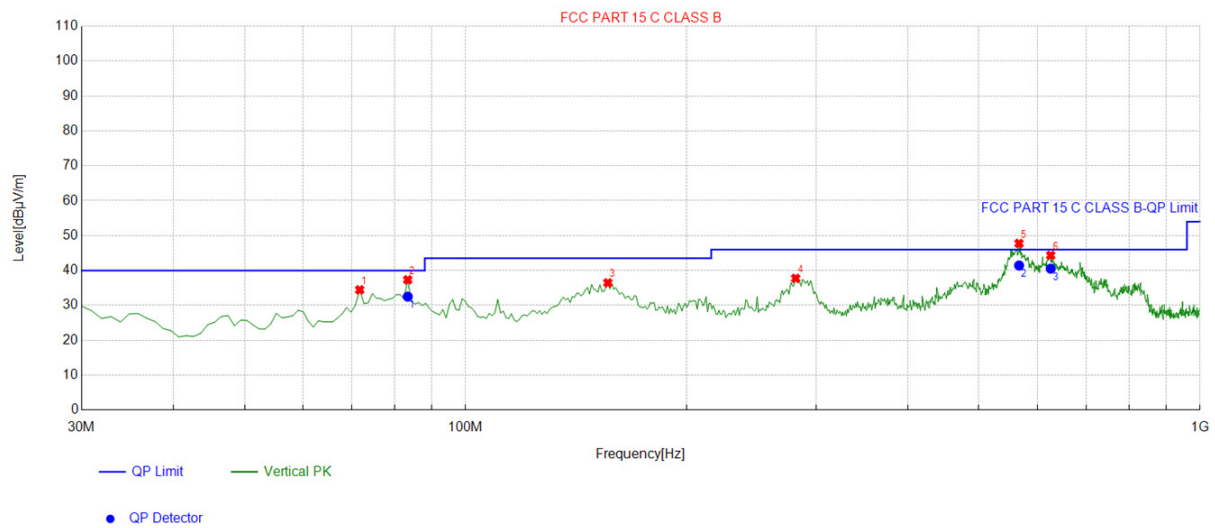
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	287.3073	-12.28	48.74	36.46	46.00	9.54	100	201	Horizontal
2	297.9879	-11.79	48.63	36.84	46.00	9.16	100	218	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	71.751752	-17.38	51.84	34.46	40.00	5.54	100	11	Vertical
2	83.403403	-18.05	55.38	37.33	40.00	2.67	100	122	Vertical
3	156.22622	-17.78	54.23	36.45	43.50	7.05	100	304	Vertical
4	281.48148	-12.59	50.33	37.74	46.00	8.26	100	145	Vertical
5	566.94694	-6.08	53.83	47.75	46.00	-1.75	100	247	Vertical
6	626.17617	-5.35	49.69	44.34	46.00	1.66	100	281	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	83.40340	-18.05	50.57	32.52	40.00	7.48	100	122	Vertical
2	566.9469	-6.08	47.52	41.44	46.00	4.56	100	247	Vertical
3	626.1761	-5.35	45.88	40.53	46.00	5.47	100	281	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-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	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	54.95	-3.64	51.31	74	-22.69	peak
4824	43.28	-3.64	39.64	54	-14.36	AVG
7236	52.28	-0.95	51.33	74	-22.67	peak
7236	40.35	-0.95	39.4	54	-14.6	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)	
4824	55.63	-3.64	51.99	74	-22.01	peak
4824	43.51	-3.64	39.87	54	-14.13	AVG
7236	52.31	-0.95	51.36	74	-22.64	peak
7236	40.27	-0.82	39.45	54	-14.55	AVG

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



MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	54.54	-3.51	51.03	74	-22.97	peak
4874	44.08	-3.51	40.57	54	-13.43	AVG
7311	53.17	-0.82	52.35	74	-21.65	peak
7311	41.69	-0.82	40.87	54	-13.13	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	56.00	-3.51	52.49	74	-21.51	peak
4874	43.69	-3.51	40.18	54	-13.82	AVG
7311	55.50	-0.82	54.68	74	-19.32	peak
7311	41.48	-0.82	40.66	54	-13.34	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	55.58	-3.43	52.15	74	-21.85	peak
4924	40.6	-3.43	37.17	54	-16.83	AVG
7386	49.62	-0.75	48.87	74	-25.13	peak
7386	41	-0.75	40.25	54	-13.75	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)	
4924	54.84	-3.43	51.41	74	-22.59	peak
4924	43.16	-3.43	39.73	54	-14.27	AVG
7386	51.52	-0.75	50.77	74	-23.23	peak
7386	42.18	-0.75	41.43	54	-12.57	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	56.71	-3.64	53.07	74	-20.93	peak
4824	41.72	-3.64	38.08	54	-15.92	AVG
7236	51.12	-0.95	50.17	74	-23.83	peak
7236	40.44	-0.95	39.49	54	-14.51	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)	
4824	54.17	-3.64	50.53	74	-23.47	peak
4824	43.65	-3.64	40.01	54	-13.99	AVG
7236	52.96	-0.95	52.01	74	-21.99	peak
7236	40.78	-0.95	39.83	54	-14.17	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	53.7	-3.51	50.19	74	-23.81	peak
4874	42.65	-3.51	39.14	54	-14.86	AVG
7311	50.37	-0.82	49.55	74	-24.45	peak
7311	39.38	-0.82	38.56	54	-15.44	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	51.83	-3.51	48.32	74	-25.68	peak
4874	42.88	-3.51	39.37	54	-14.63	AVG
7311	49.41	-0.82	48.59	74	-25.41	peak
7311	40.04	-0.82	39.22	54	-14.78	AVG

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



HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	54.74	-3.43	51.31	74	-22.69	peak
4924	40.79	-3.43	37.36	54	-16.64	AVG
7386	49.61	-0.75	48.86	74	-25.14	peak
7386	39.57	-0.75	38.82	54	-15.18	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	54.5	-3.43	51.07	74	-22.93	peak
4924	43.13	-3.43	39.7	54	-14.3	AVG
7386	49.62	-0.75	48.87	74	-25.13	peak
7386	40.02	-0.75	39.27	54	-14.73	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of ANT.1 are reported.



LOW CH1 (802.11n/HT20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	53.13	-3.64	49.49	74	-24.51	peak
4824	41.45	-3.64	37.81	54	-16.19	AVG
7236	50.94	-0.95	49.99	74	-24.01	peak
7236	40.09	-0.95	39.14	54	-14.86	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)	
4824	57.11	-3.64	53.47	74	-20.53	peak
4824	41.29	-3.64	37.65	54	-16.35	AVG
7236	50.06	-0.95	49.11	74	-24.89	peak
7236	40.11	-0.95	39.16	54	-14.84	AVG

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



MID CH6 (802.11n/HT20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	54.57	-3.51	51.06	74.00	-22.94	peak
4874.00	42.23	-3.51	38.72	54.00	-15.28	AVG
7311.00	52.56	-0.82	51.74	74.00	-22.26	peak
7311.00	40.09	-0.82	39.27	54.00	-14.73	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)	
4874.00	51.78	-3.51	48.27	74.00	-25.73	peak
4874.00	44.57	-3.51	41.06	54.00	-12.94	AVG
7311.00	51.36	-0.82	50.54	74.00	-23.46	peak
7311.00	40.71	-0.82	39.89	54.00	-14.11	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH11 (802.11n/HT20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	54.05	-3.43	50.62	74	-23.38	peak
4924	44.09	-3.43	40.66	54	-13.34	AVG
7386	51.47	-0.75	50.72	74	-23.28	peak
7386	41.16	-0.75	40.41	54	-13.59	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)	
4924	53.11	-3.43	49.68	74	-24.32	peak
4924	43.51	-3.43	40.08	54	-13.92	AVG
7386	51.3	-0.75	50.55	74	-23.45	peak
7386	42.65	-0.75	41.9	54	-12.1	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH3 (802.11n/HT40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	54.77	-3.63	51.14	74	-22.86	peak
4844	44.18	-3.63	40.55	54	-13.45	AVG
7266	53.09	-0.94	52.15	74	-21.85	peak
7266	41.65	-0.94	40.71	54	-13.29	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	52.18	-3.63	48.55	74	-25.45	peak
4844	42.57	-3.63	38.94	54	-15.06	AVG
7266	49.95	-0.94	49.01	74	-24.99	peak
7266	39.26	-0.94	38.32	54	-15.68	AVG

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



MID CH6 (802.11n/HT40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	51.76	-3.51	48.25	74	-25.75	peak
4874	42.49	-3.51	38.98	54	-15.02	AVG
7311	50.59	-0.82	49.77	74	-24.23	peak
7311	42.14	-0.82	41.32	54	-12.68	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	56.67	-3.51	53.16	74	-20.84	peak
4874	43.28	-3.51	39.77	54	-14.23	AVG
7311	52.69	-0.82	51.87	74	-22.13	peak
7311	42.5	-0.82	41.68	54	-12.32	AVG

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



HIGH CH9 (802.11n/HT40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	54.3	-3.43	50.87	74	-23.13	peak
4904	43.88	-3.43	40.45	54	-13.55	AVG
7356	51.17	-0.75	50.42	74	-23.58	peak
7356	43.23	-0.75	42.48	54	-11.52	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	55.54	-3.43	52.11	74	-21.89	peak
4904	42.43	-3.43	39	54	-15	AVG
7356	53.77	-0.75	53.02	74	-20.98	peak
7356	40.67	-0.75	39.92	54	-14.08	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH1 (802.11ac/HT20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	54.07	-3.64	50.43	74	-23.57	peak
4824	41.12	-3.64	37.48	54	-16.52	AVG
7236	50.39	-0.95	49.44	74	-24.56	peak
7236	40.68	-0.95	39.73	54	-14.27	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)	
4824	52.75	-3.64	49.11	74	-24.89	peak
4824	42.88	-3.64	39.24	54	-14.76	AVG
7236	51.95	-0.95	51	74	-23	peak
7236	42.22	-0.95	41.27	54	-12.73	AVG

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



MID CH6 (802.11ac/HT20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	53.56	-3.51	50.05	74.00	-23.95	peak
4874.00	43.62	-3.51	40.11	54.00	-13.89	AVG
7311.00	52.80	-0.82	51.98	74.00	-22.02	peak
7311.00	39.75	-0.82	38.93	54.00	-15.07	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)	
4874.00	51.59	-3.51	48.08	74.00	-25.92	peak
4874.00	43.10	-3.51	39.59	54.00	-14.41	AVG
7311.00	48.82	-0.82	48.00	74.00	-26.00	peak
7311.00	41.90	-0.82	41.08	54.00	-12.92	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH11 (802.11ac/HT20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	53.97	-3.43	50.54	74	-23.46	peak
4924	45.26	-3.43	41.83	54	-12.17	AVG
7386	52.81	-0.75	52.06	74	-21.94	peak
7386	43.52	-0.75	42.77	54	-11.23	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)	
4924	53.64	-3.43	50.21	74	-23.79	peak
4924	40.94	-3.43	37.51	54	-16.49	AVG
7386	49.05	-0.75	48.3	74	-25.7	peak
7386	39	-0.75	38.25	54	-15.75	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH3 (802.11ac/HT40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	52.38	-3.63	48.75	74	-25.25	peak
4844	42.68	-3.63	39.05	54	-14.95	AVG
7266	49.54	-0.94	48.6	74	-25.4	peak
7266	40.10	-0.94	39.16	54	-14.84	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	54.43	-3.63	50.8	74	-23.2	peak
4844	45.45	-3.63	41.82	54	-12.18	AVG
7266	51.03	-0.94	50.09	74	-23.91	peak
7266	41.27	-0.94	40.33	54	-13.67	AVG

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



MID CH6 (802.11ac/HT40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	54.44	-3.51	50.93	74	-23.07	peak
4874	41.79	-3.51	38.28	54	-15.72	AVG
7311	52.86	-0.82	52.04	74	-21.96	peak
7311	42.14	-0.82	41.32	54	-12.68	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	52.01	-3.51	48.5	74	-25.5	peak
4874	42.1	-3.51	38.59	54	-15.41	AVG
7311	49.74	-0.82	48.92	74	-25.08	peak
7311	40.15	-0.82	39.33	54	-14.67	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH9 (802.11ac/HT40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	52.06	-3.43	48.63	74	-25.37	peak
4904	43.32	-3.43	39.89	54	-14.11	AVG
7356	49.53	-0.75	48.78	74	-25.22	peak
7356	41.56	-0.75	40.81	54	-13.19	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	52.71	-3.43	49.28	74	-24.72	peak
4904	44.37	-3.43	40.94	54	-13.06	AVG
7356	49.24	-0.75	48.49	74	-25.51	peak
7356	40.91	-0.75	40.16	54	-13.84	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamp; 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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH1 (802.11ax/HT20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	55.42	-3.64	51.78	74	-22.22	peak
4824	41.34	-3.64	37.7	54	-16.3	AVG
7236	50.19	-0.95	49.24	74	-24.76	peak
7236	41.37	-0.95	40.42	54	-13.58	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)	
4824	53.04	-3.64	49.4	74	-24.6	peak
4824	44.07	-3.64	40.43	54	-13.57	AVG
7236	51.23	-0.95	50.28	74	-23.72	peak
7236	41.85	-0.95	40.9	54	-13.1	AVG

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



MID CH6 (802.11ax/HT20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.00	53.71	-3.51	50.20	74.00	-23.80	peak
4874.00	42.26	-3.51	38.75	54.00	-15.25	AVG
7311.00	51.53	-0.82	50.71	74.00	-23.29	peak
7311.00	40.10	-0.82	39.28	54.00	-14.72	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)	
4874.00	52.27	-3.51	48.76	74.00	-25.24	peak
4874.00	42.68	-3.51	39.17	54.00	-14.83	AVG
7311.00	50.37	-0.82	49.55	74.00	-24.45	peak
7311.00	41.03	-0.82	40.21	54.00	-13.79	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH11 (802.11ax/HT20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	54.24	-3.43	50.81	74	-23.19	peak
4924	45.38	-3.43	41.95	54	-12.05	AVG
7386	52.05	-0.75	51.3	74	-22.7	peak
7386	41.98	-0.75	41.23	54	-12.77	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)	
4924	53.23	-3.43	49.8	74	-24.2	peak
4924	41.2	-3.43	37.77	54	-16.23	AVG
7386	50.24	-0.75	49.49	74	-24.51	peak
7386	40.15	-0.75	39.4	54	-14.6	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.



LOW CH3 (802.11ax/HT40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4844	53.86	-3.63	50.23	74	-23.77	peak
4844	40.86	-3.63	37.23	54	-16.77	AVG
7266	49.49	-0.94	48.55	74	-25.45	peak
7266	40.87	-0.94	39.93	54	-14.07	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	54.11	-3.63	50.48	74	-23.52	peak
4844	44.46	-3.63	40.83	54	-13.17	AVG
7266	51.82	-0.94	50.88	74	-23.12	peak
7266	41.81	-0.94	40.87	54	-13.13	AVG

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



MID CH6 (802.11ax/HT40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	52.91	-3.51	49.4	74	-24.6	peak
4874	41.76	-3.51	38.25	54	-15.75	AVG
7311	52.25	-0.82	51.43	74	-22.57	peak
7311	41.34	-0.82	40.52	54	-13.48	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	51.96	-3.51	48.45	74	-25.55	peak
4874	42.6	-3.51	39.09	54	-14.91	AVG
7311	50.65	-0.82	49.83	74	-24.17	peak
7311	40.56	-0.82	39.74	54	-14.26	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



HIGH CH9 (802.11ax/HT40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	51.52	-3.43	48.09	74	-25.91	peak
4904	44.15	-3.43	40.72	54	-13.28	AVG
7356	49.33	-0.75	48.58	74	-25.42	peak
7356	42.08	-0.75	41.33	54	-12.67	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 Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	53.23	-3.43	49.8	74	-24.2	peak
4904	43.99	-3.43	40.56	54	-13.44	AVG
7356	49.86	-0.75	49.11	74	-24.89	peak
7356	41.07	-0.75	40.32	54	-13.68	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 record 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.
- (7) All modes of operation were investigated and the worst-case emissions of MIMO are reported.