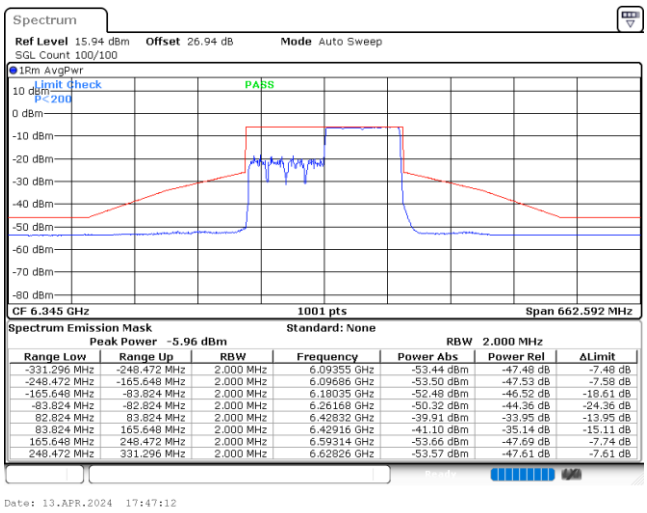
EUT Mode	802.11ax HE160 996RUS67

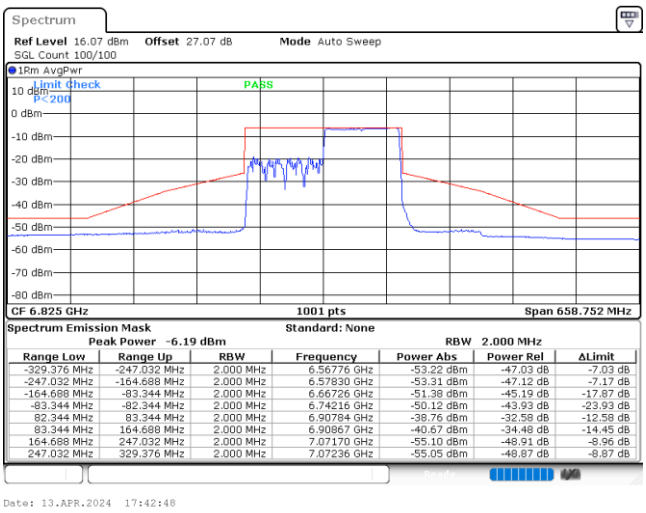
Plot on Channel 6345 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-331.296 MHz	-248.472 MHz	2.000 MHz	6.09355 GHz	-53.44 dBm	-47.48 dB	-7.48 dB
-248.472 MHz	-165.648 MHz	2.000 MHz	6.09686 GHz	-53.50 dBm	-47.53 dB	-7.58 dB
-165.648 MHz	-83.824 MHz	2.000 MHz	6.18035 GHz	-52.48 dBm	-46.52 dB	-18.61 dB
-83.824 MHz	-82.824 MHz	2.000 MHz	6.26168 GHz	-50.32 dBm	-44.36 dB	-24.36 dB
82.824 MHz	83.824 MHz	2.000 MHz	6.42832 GHz	-39.91 dBm	-33.95 dB	-13.95 dB
83.824 MHz	165.648 MHz	2.000 MHz	6.42916 GHz	-41.10 dBm	-35.14 dB	-15.11 dB
165.648 MHz	248.472 MHz	2.000 MHz	6.59314 GHz	-53.66 dBm	-47.69 dB	-7.74 dB
248.472 MHz	331.296 MHz	2.000 MHz	6.62826 GHz	-53.57 dBm	-47.61 dB	-7.61 dB

Date: 13.APR.2024 17:47:12

Plot on Channel 6825 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-329.376 MHz	-247.032 MHz	2.000 MHz	6.56776 GHz	-53.22 dBm	-47.03 dB	-7.03 dB
-247.032 MHz	-164.688 MHz	2.000 MHz	6.57830 GHz	-53.31 dBm	-47.12 dB	-7.17 dB
-164.688 MHz	-83.344 MHz	2.000 MHz	6.66726 GHz	-51.38 dBm	-45.19 dB	-17.87 dB
-83.344 MHz	-82.344 MHz	2.000 MHz	6.74216 GHz	-50.12 dBm	-43.93 dB	-23.93 dB
82.344 MHz	83.344 MHz	2.000 MHz	6.90784 GHz	-38.76 dBm	-32.58 dB	-12.58 dB
83.344 MHz	164.688 MHz	2.000 MHz	6.90867 GHz	-40.67 dBm	-34.48 dB	-14.45 dB
164.688 MHz	247.032 MHz	2.000 MHz	7.07170 GHz	-55.10 dBm	-48.91 dB	-8.96 dB
247.032 MHz	329.376 MHz	2.000 MHz	7.07236 GHz	-55.05 dBm	-48.87 dB	-8.87 dB

Date: 13.APR.2024 17:42:48

3.5 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.5.1 Limit of Unwanted Emissions

(1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:
Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	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 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

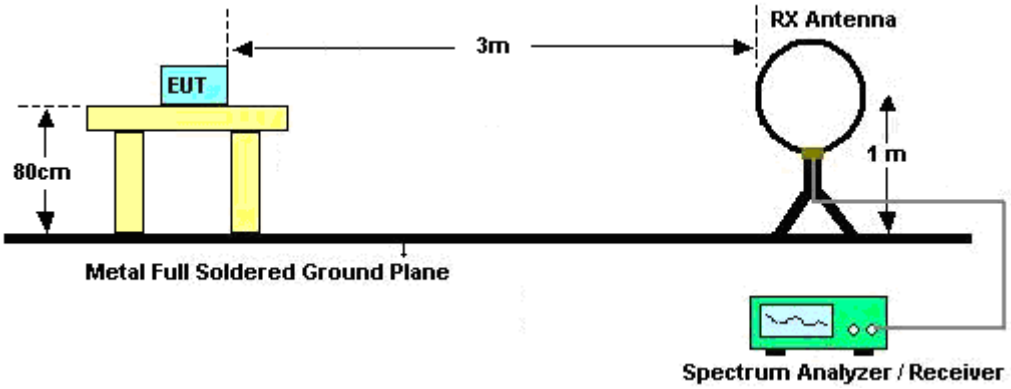
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

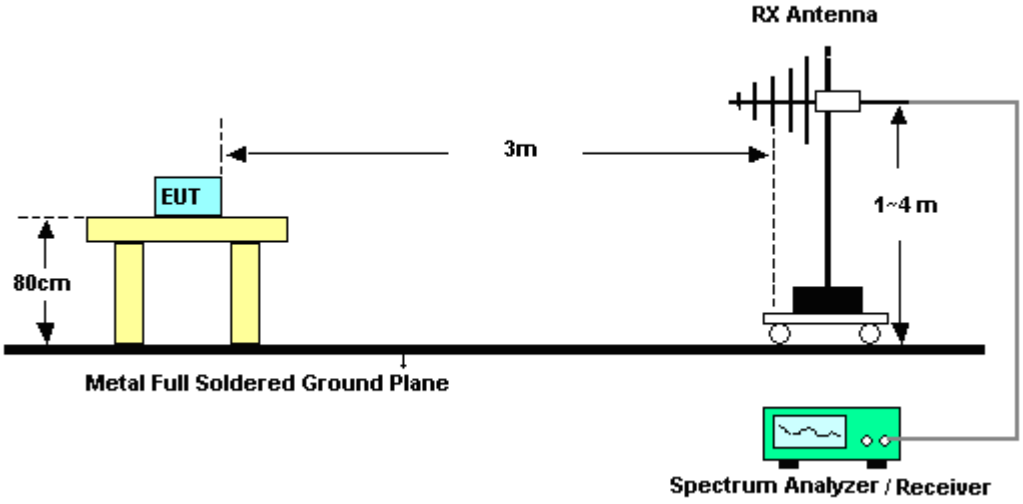
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“..

3.5.4 Test Setup

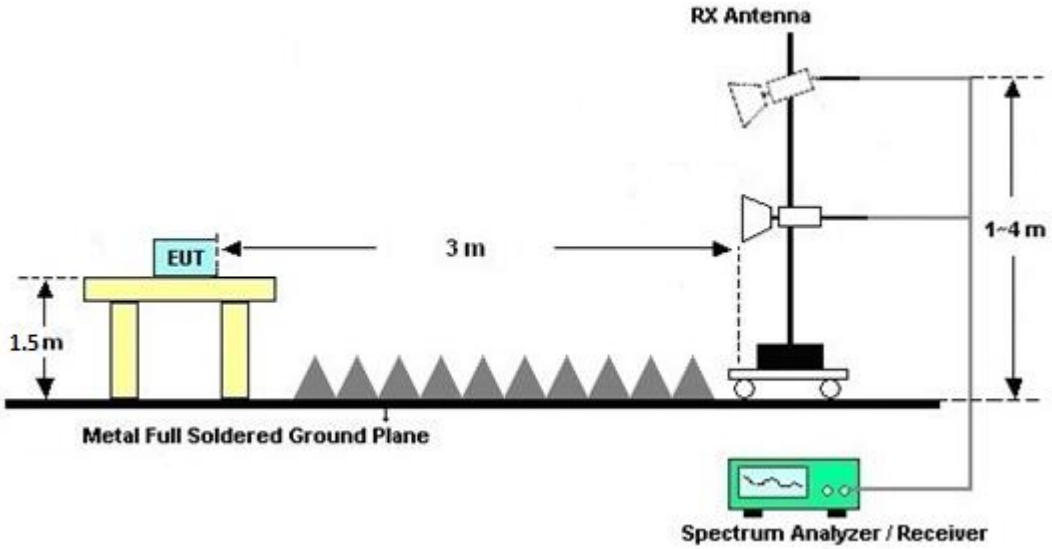
For radiated emissions below 30MHz



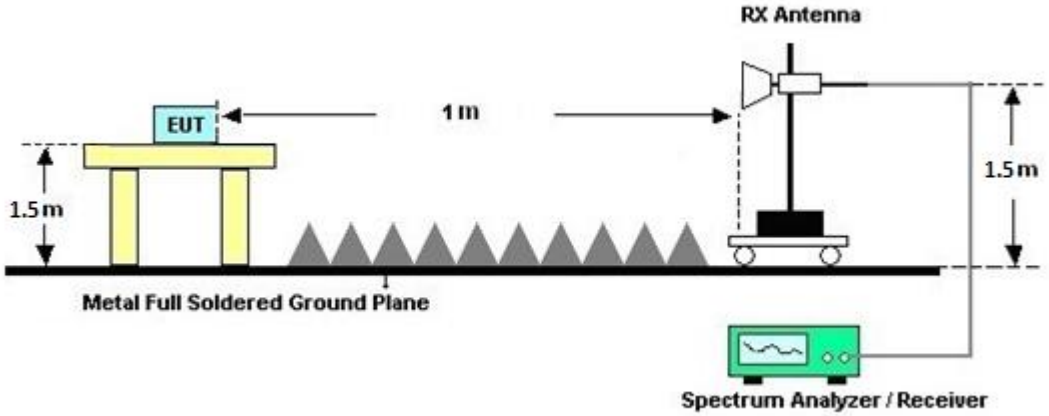
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

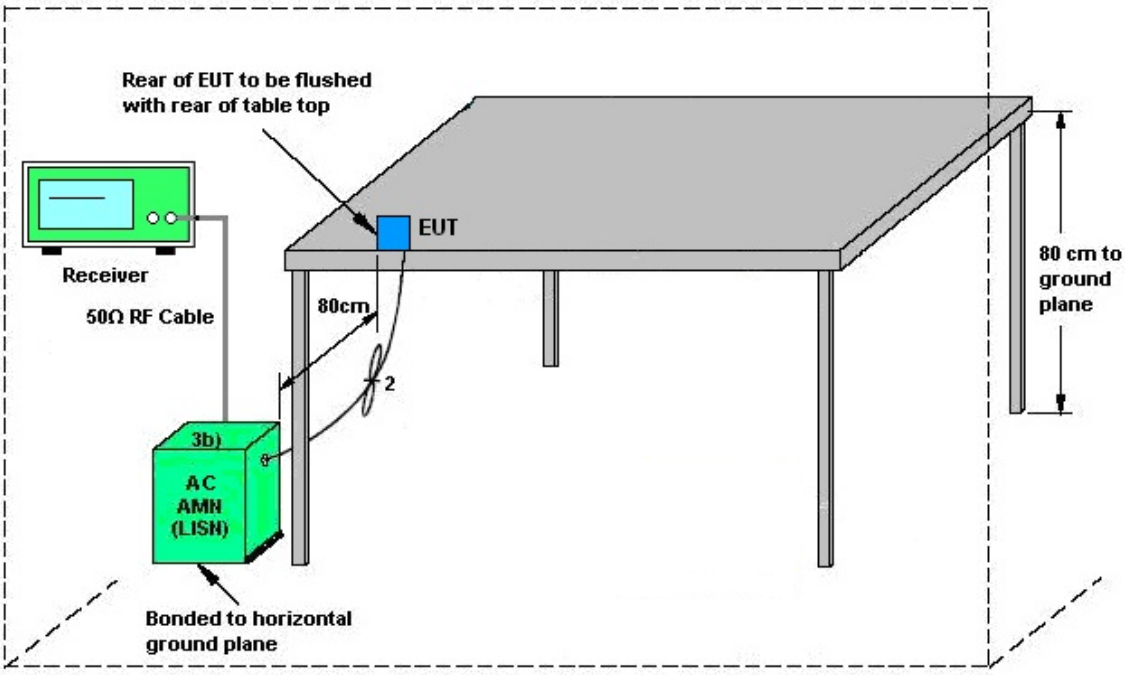
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Mar. 25, 2024~ Apr. 22, 2024	Sep. 11, 2024	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Oct. 15, 2023	Mar. 25, 2024~ Apr. 22, 2024	Oct. 14, 2024	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Jul. 12, 2023	Mar. 25, 2024~ Apr. 22, 2024	Jul. 11, 2024	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Mar. 25, 2024~ Apr. 22, 2024	Jul. 09, 2024	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 15, 2023	Mar. 25, 2024~ Apr. 22, 2024	Jul. 14, 2024	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 28, 2023	Mar. 25, 2024~ Apr. 22, 2024	Sep. 27, 2024	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Mar. 25, 2024~ Apr. 22, 2024	Aug. 29, 2024	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Aug. 28, 2023	Mar. 25, 2024~ Apr. 22, 2024	Aug. 27, 2024	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Mar. 25, 2024~ Apr. 22, 2024	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,804614/2	30MHz~40GHz	Oct. 24, 2023	Mar. 25, 2024~ Apr. 22, 2024	Oct. 23, 2024	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 30, 2023	Mar. 25, 2024~ Apr. 22, 2024	Oct. 29, 2024	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 25, 2024~ Apr. 22, 2024	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 25, 2024~ Apr. 22, 2024	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 25, 2024~ Apr. 22, 2024	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 25, 2024~ Apr. 22, 2024	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Mar. 04, 2024~ Apr. 15, 2024	Nov. 06, 2024	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W-23010013 (NO:100)	10MHz~8GHz	Jul. 26, 2023	Mar. 04, 2024~ Apr. 15, 2024	Jul. 25, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Mar. 04, 2024~ Apr. 15, 2024	Sep. 11, 2024	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 30, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Mar. 30, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Mar. 30, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Mar. 30, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Mar. 30, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 28, 2023	Mar. 30, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Mar. 30, 2024	Dec. 27, 2024	Conduction (CO05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.50 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.40 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.60 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.60 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.50 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2024/03/04~2024/04/15	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	001	5955	16.43	16.43	20.38	20.41	320.00	Pass
11a	6Mbps	2	049	6195	16.43	16.43	20.10	20.06	320.00	Pass
11a	6Mbps	2	093	6415	16.43	16.43	20.14	20.42	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	001	5955	0.03	0.03	12.60	11.70	15.18	3.37		18.55	30.00	Pass
11a	6Mbps	2	049	6195	0.03	0.03	12.70	11.70	15.24	3.37		18.61	30.00	Pass
11a	6Mbps	2	093	6415	0.03	0.03	12.60	11.60	15.14	3.37		18.51	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	001	5955	0.03	0.03			2.93	6.20		9.13	17.00	Pass
11a	6Mbps	2	049	6195	0.03	0.03			2.77	6.20		8.97	17.00	Pass
11a	6Mbps	2	093	6415	0.03	0.03			3.08	6.20		9.28	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	117	6535	16.43	16.43	20.09	20.42	320.00	Pass
11a	6Mbps	2	149	6695	16.48	16.43	20.10	20.37	320.00	Pass
11a	6Mbps	2	181	6855	16.43	16.43	20.02	20.39	320.00	Pass

U-NII-7 straddle channel MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	185	6875	16.43	16.43	20.10	20.44	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	117	6535	0.03	0.03	12.70	11.70	15.24	3.15		18.39	30.00	Pass
11a	6Mbps	2	149	6695	0.03	0.03	12.90	12.00	15.48	3.15		18.63	30.00	Pass
11a	6Mbps	2	181	6855	0.03	0.03	12.70	12.00	15.37	3.15		18.52	30.00	Pass

U-NII-7 straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	185	6875	0.03	0.03	12.60	12.10	15.37	3.15		18.52	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	117	6535	0.03	0.03			3.24	5.99		9.23	17.00	Pass
11a	6Mbps	2	149	6695	0.03	0.03			3.35	5.99		9.33	17.00	Pass
11a	6Mbps	2	181	6855	0.03	0.03			2.70	5.99		8.69	17.00	Pass

FCC U-NII-7 straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
11a	6Mbps	2	185	6875	0.03	0.03			3.03	5.99		9.01	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	001	5955	Full	18.93	18.93	21.60	21.35	320.00	Pass
HE20	MCS0	2	049	6195	Full	18.93	18.98	21.15	21.34	320.00	Pass
HE20	MCS0	2	093	6415	Full	18.93	18.93	21.43	21.42	320.00	Pass
HE40	MCS0	2	003	5965	Full	37.96	37.96	41.44	41.50	320.00	Pass
HE40	MCS0	2	051	6205	Full	37.86	38.06	41.52	41.44	320.00	Pass
HE40	MCS0	2	091	6405	Full	37.86	37.96	41.49	41.71	320.00	Pass
HE80	MCS0	2	007	5985	Full	77.32	77.32	82.85	83.17	320.00	Pass
HE80	MCS0	2	055	6225	Full	77.32	77.32	82.56	82.56	320.00	Pass
HE80	MCS0	2	087	6385	Full	77.32	77.32	82.43	82.24	320.00	Pass
HE160	MCS0	2	015	6025	Full	156.80	156.80	165.26	166.42	320.00	Pass
HE160	MCS0	2	047	6185	Full	157.04	156.80	165.36	166.42	320.00	Pass
HE160	MCS0	2	079	6345	Full	157.04	156.80	166.99	165.65	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	001	5955	Full	0.00	0.00	12.70	11.70	15.24	3.37		18.61	30.00	Pass
HE20	MCS0	2	001	5955	26/0	0.64	0.65	3.00	2.00	5.54	3.37		8.91	30.00	Pass
HE20	MCS0	2	001	5955	52/37	0.58	0.60	5.80	5.10	8.47	3.37		11.84	30.00	Pass
HE20	MCS0	2	001	5955	106/53	0.66	0.66	8.90	8.10	11.53	3.37		14.90	30.00	Pass
HE20	MCS0	2	049	6195	Full	0.00	0.00	12.70	11.70	15.24	3.37		18.61	30.00	Pass
HE20	MCS0	2	049	6195	26/4	0.64	0.65	3.60	3.20	6.41	3.37		9.78	30.00	Pass
HE20	MCS0	2	049	6195	52/38	0.58	0.60	5.80	5.50	8.66	3.37		12.03	30.00	Pass
HE20	MCS0	2	049	6195	106/53	0.66	0.66	8.80	8.50	11.66	3.37		15.03	30.00	Pass
HE20	MCS0	2	093	6415	Full	0.00	0.00	12.80	12.20	15.52	3.37		18.89	30.00	Pass
HE20	MCS0	2	093	6415	26/8	0.64	0.65	2.40	3.30	5.88	3.37		9.25	30.00	Pass
HE20	MCS0	2	093	6415	52/40	0.58	0.60	5.10	6.20	8.70	3.37		12.07	30.00	Pass
HE20	MCS0	2	093	6415	106/54	0.66	0.66	8.10	9.10	11.64	3.37		15.01	30.00	Pass
HE40	MCS0	2	003	5965	Full	0.00	0.00	12.60	11.90	15.27	3.37		18.64	30.00	Pass
HE40	MCS0	2	003	5965	242/61	0.00	0.00	9.50	9.00	12.27	3.37		15.64	30.00	Pass
HE40	MCS0	2	051	6205	Full	0.00	0.00	12.70	12.00	15.37	3.37		18.74	30.00	Pass
HE40	MCS0	2	051	6205	242/61	0.00	0.00	9.20	8.60	11.92	3.37		15.29	30.00	Pass
HE40	MCS0	2	091	6405	Full	0.00	0.00	12.80	12.30	15.57	3.37		18.94	30.00	Pass
HE40	MCS0	2	091	6405	242/62	0.00	0.00	10.30	10.00	13.16	3.37		16.53	30.00	Pass
HE80	MCS0	2	007	5985	Full	0.00	0.00	12.90	12.40	15.67	3.37		19.04	30.00	Pass
HE80	MCS0	2	007	5985	484/65	0.04	0.04	9.60	9.10	12.37	3.37		15.74	30.00	Pass
HE80	MCS0	2	055	6225	Full	0.00	0.00	12.90	12.40	15.67	3.37		19.04	30.00	Pass
HE80	MCS0	2	055	6225	484/65	0.04	0.04	9.70	9.30	12.51	3.37		15.88	30.00	Pass
HE80	MCS0	2	087	6385	Full	0.00	0.00	12.60	12.40	15.51	3.37		18.88	30.00	Pass
HE80	MCS0	2	087	6385	484/66	0.04	0.04	9.50	9.50	12.51	3.37		15.88	30.00	Pass
HE160	MCS0	2	015	6025	Full	0.00	0.00	12.70	12.50	15.61	3.37		18.98	30.00	Pass
HE160	MCS0	2	015	6025	996/67	0.10	0.11	10.10	10.20	13.16	3.37		16.53	30.00	Pass
HE160	MCS0	2	047	6185	Full	0.00	0.00	13.00	12.50	15.77	3.37		19.14	30.00	Pass
HE160	MCS0	2	047	6185	996/67	0.10	0.11	9.30	9.00	12.16	3.37		15.53	30.00	Pass
HE160	MCS0	2	079	6345	Full	0.00	0.00	12.80	12.60	15.71	3.37		19.08	30.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.10	0.11	9.40	9.60	12.51	3.37		15.88	30.00	Pass

Report Number : FR422224H

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	001	5955	Full	0.00	0.00			2.70	6.20		8.90	17.00	Pass
HE20	MCS0	2	001	5955	26/0	0.64	0.65			2.48	6.20		8.68	17.00	Pass
HE20	MCS0	2	001	5955	52/37	0.58	0.60			2.34	6.20		8.53	17.00	Pass
HE20	MCS0	2	001	5955	106/53	0.66	0.66			2.46	6.20		8.65	17.00	Pass
HE20	MCS0	2	049	6195	Full	0.00	0.00			2.51	6.20		8.70	17.00	Pass
HE20	MCS0	2	049	6195	26/4	0.64	0.65			2.07	6.20		8.27	17.00	Pass
HE20	MCS0	2	049	6195	52/38	0.58	0.60			2.50	6.20		8.70	17.00	Pass
HE20	MCS0	2	049	6195	106/53	0.66	0.66			2.41	6.20		8.60	17.00	Pass
HE20	MCS0	2	093	6415	Full	0.00	0.00			3.18	6.20		9.38	17.00	Pass
HE20	MCS0	2	093	6415	26/8	0.64	0.65			3.11	6.20		9.31	17.00	Pass
HE20	MCS0	2	093	6415	52/40	0.58	0.60			2.89	6.20		9.09	17.00	Pass
HE20	MCS0	2	093	6415	106/54	0.66	0.66			2.71	6.20		8.90	17.00	Pass
HE40	MCS0	2	003	5965	Full	0.00	0.00			-0.24	6.20		5.96	17.00	Pass
HE40	MCS0	2	003	5965	242/61	0.00	0.00			-0.93	6.20		5.27	17.00	Pass
HE40	MCS0	2	051	6205	Full	0.00	0.00			-0.29	6.20		5.91	17.00	Pass
HE40	MCS0	2	051	6205	242/61	0.00	0.00			-1.04	6.20		5.16	17.00	Pass
HE40	MCS0	2	091	6405	Full	0.00	0.00			0.16	6.20		6.35	17.00	Pass
HE40	MCS0	2	091	6405	242/62	0.00	0.00			0.15	6.20		6.35	17.00	Pass
HE80	MCS0	2	007	5985	Full	0.00	0.00			-3.10	6.20		3.10	17.00	Pass
HE80	MCS0	2	007	5985	484/65	0.04	0.04			-3.55	6.20		2.65	17.00	Pass
HE80	MCS0	2	055	6225	Full	0.00	0.00			-2.97	6.20		3.23	17.00	Pass
HE80	MCS0	2	055	6225	484/65	0.04	0.04			-3.31	6.20		2.89	17.00	Pass
HE80	MCS0	2	087	6385	Full	0.00	0.00			-2.95	6.20		3.25	17.00	Pass
HE80	MCS0	2	087	6385	484/66	0.04	0.04			-3.22	6.20		2.98	17.00	Pass
HE160	MCS0	2	015	6025	Full	0.00	0.00			-5.54	6.20		0.66	17.00	Pass
HE160	MCS0	2	015	6025	996/67	0.10	0.11			-5.63	6.20		0.57	17.00	Pass
HE160	MCS0	2	047	6185	Full	0.00	0.00			-6.01	6.20		0.18	17.00	Pass
HE160	MCS0	2	047	6185	996/67	0.10	0.11			-6.65	6.20		-0.45	17.00	Pass
HE160	MCS0	2	079	6345	Full	0.00	0.00			-5.41	6.20		0.79	17.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.10	0.11			-5.84	6.20		0.36	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	117	6535	Full	18.93	18.93	21.42	21.38	320.00	Pass
HE20	MCS0	2	149	6695	Full	18.93	18.98	21.74	21.35	320.00	Pass
HE20	MCS0	2	181	6855	Full	18.93	18.93	21.80	21.34	320.00	Pass
HE40	MCS0	2	123	6565	Full	37.86	38.06	41.41	41.66	320.00	Pass
HE40	MCS0	2	147	6685	Full	37.96	38.06	41.55	41.79	320.00	Pass
HE40	MCS0	2	179	6845	Full	37.96	37.96	41.34	41.62	320.00	Pass
HE80	MCS0	2	135	6625	Full	77.08	77.32	82.21	83.20	320.00	Pass
HE80	MCS0	2	151	6705	Full	77.20	77.32	82.88	82.34	320.00	Pass
HE80	MCS0	2	167	6785	Full	77.08	77.32	82.56	82.75	320.00	Pass
HE160	MCS0	2	143	6665	Full	156.80	157.04	166.66	166.99	320.00	Pass

U-NII-7 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	185	6875	Full	18.93	18.93	21.26	21.41	320.00	Pass
HE40	MCS0	2	187	6885	Full	37.96	38.06	41.58	41.81	320.00	Pass
HE80	MCS0	2	183	6865	Full	77.32	77.32	82.24	82.91	320.00	Pass
HE160	MCS0	2	175	6825	Full	156.80	157.28	168.19	164.69	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	117	6535	Full	0.00	0.00	12.70	11.70	15.24	3.15		18.39	30.00	Pass
HE20	MCS0	2	117	6535	26/0	0.64	0.65	2.40	2.70	5.56	3.15		8.71	30.00	Pass
HE20	MCS0	2	117	6535	52/37	0.58	0.60	5.60	5.80	8.71	3.15		11.86	30.00	Pass
HE20	MCS0	2	117	6535	106/53	0.66	0.66	8.10	8.10	11.11	3.15		14.26	30.00	Pass
HE20	MCS0	2	149	6695	Full	0.00	0.00	12.90	12.00	15.48	3.15		18.63	30.00	Pass
HE20	MCS0	2	149	6695	26/4	0.64	0.65	3.10	4.10	6.64	3.15		9.79	30.00	Pass
HE20	MCS0	2	149	6695	52/38	0.58	0.60	5.50	5.70	8.61	3.15		11.76	30.00	Pass
HE20	MCS0	2	149	6695	106/53	0.66	0.66	8.50	8.60	11.56	3.15		14.71	30.00	Pass
HE20	MCS0	2	181	6855	Full	0.00	0.00	13.00	12.30	15.67	3.15		18.82	30.00	Pass
HE20	MCS0	2	181	6855	26/8	0.64	0.65	2.80	3.40	6.12	3.15		9.27	30.00	Pass
HE20	MCS0	2	181	6855	52/40	0.58	0.60	5.70	6.30	9.02	3.15		12.17	30.00	Pass
HE20	MCS0	2	181	6855	106/54	0.66	0.66	8.50	9.20	11.87	3.15		15.02	30.00	Pass
HE40	MCS0	2	123	6565	Full	0.00	0.00	13.00	12.30	15.67	3.15		18.82	30.00	Pass
HE40	MCS0	2	123	6565	242/61	0.00	0.00	10.20	10.00	13.11	3.15		16.26	30.00	Pass
HE40	MCS0	2	147	6685	Full	0.00	0.00	12.90	12.40	15.67	3.15		18.82	30.00	Pass
HE40	MCS0	2	147	6685	242/61	0.00	0.00	10.00	10.00	13.01	3.15		16.16	30.00	Pass
HE40	MCS0	2	179	6845	Full	0.00	0.00	13.00	12.40	15.72	3.15		18.87	30.00	Pass
HE40	MCS0	2	179	6845	242/62	0.00	0.00	9.90	10.20	13.06	3.15		16.21	30.00	Pass
HE80	MCS0	2	135	6625	Full	0.00	0.00	12.90	12.30	15.62	3.15		18.77	30.00	Pass
HE80	MCS0	2	135	6625	484/65	0.04	0.04	8.60	8.90	11.76	3.15		14.91	30.00	Pass
HE80	MCS0	2	151	6705	Full	0.00	0.00	12.90	12.20	15.57	3.15		18.72	30.00	Pass
HE80	MCS0	2	151	6705	484/65	0.04	0.04	8.70	8.60	11.66	3.15		14.81	30.00	Pass
HE80	MCS0	2	167	6785	Full	0.00	0.00	13.00	12.40	15.72	3.15		18.87	30.00	Pass
HE80	MCS0	2	167	6785	484/66	0.04	0.04	9.90	10.10	13.01	3.15		16.16	30.00	Pass
HE160	MCS0	2	143	6665	Full	0.00	0.00	12.60	12.20	15.41	3.15		18.56	30.00	Pass
HE160	MCS0	2	143	6665	996/67	0.10	0.11	10.20	10.20	13.21	3.15		16.36	30.00	Pass

U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	185	6875	Full	0.00	0.00	12.90	12.50	15.71	3.15		18.86	30.00	Pass
HE20	MCS0	2	185	6875	26/8	0.64	0.65	2.80	3.40	6.12	3.15		9.27	30.00	Pass
HE20	MCS0	2	185	6875	52/40	0.58	0.60	5.60	6.30	8.97	3.15		12.12	30.00	Pass
HE20	MCS0	2	185	6875	106/54	0.66	0.66	8.30	9.20	11.78	3.15		14.93	30.00	Pass
HE40	MCS0	2	187	6885	Full	0.00	0.00	12.90	12.40	15.67	3.15		18.82	30.00	Pass
HE40	MCS0	2	187	6885	242/62	0.00	0.00	9.80	10.20	13.01	3.15		16.16	30.00	Pass
HE80	MCS0	2	183	6865	Full	0.00	0.00	12.80	12.30	15.57	3.15		18.72	30.00	Pass
HE80	MCS0	2	183	6865	484/66	0.04	0.04	9.10	9.40	12.26	3.15		15.41	30.00	Pass
HE160	MCS0	2	175	6825	Full	0.00	0.00	13.00	12.10	15.58	3.15		18.73	30.00	Pass
HE160	MCS0	2	175	6825	996/67	0.10	0.11	10.00	10.20	13.11	3.15		16.26	30.00	Pass
HE160	MCS0	2	175	6825	996/S67	0.10	0.11	9.80	9.70	12.76	3.15		15.91	30.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	117	6535	Full	0.00	0.00			2.70	5.99		8.69	17.00	Pass
HE20	MCS0	2	117	6535	26/0	0.64	0.65			2.59	5.99		8.58	17.00	Pass
HE20	MCS0	2	117	6535	52/37	0.58	0.60			2.67	5.99		8.65	17.00	Pass
HE20	MCS0	2	117	6535	106/53	0.66	0.66			2.28	5.99		8.27	17.00	Pass
HE20	MCS0	2	149	6695	Full	0.00	0.00			2.74	5.99		8.73	17.00	Pass
HE20	MCS0	2	149	6695	26/4	0.64	0.65			2.33	5.99		8.31	17.00	Pass
HE20	MCS0	2	149	6695	52/38	0.58	0.60			2.52	5.99		8.50	17.00	Pass
HE20	MCS0	2	149	6695	106/53	0.66	0.66			2.33	5.99		8.32	17.00	Pass
HE20	MCS0	2	181	6855	Full	0.00	0.00			2.52	5.99		8.51	17.00	Pass
HE20	MCS0	2	181	6855	26/8	0.64	0.65			2.46	5.99		8.45	17.00	Pass
HE20	MCS0	2	181	6855	52/40	0.58	0.60			2.38	5.99		8.36	17.00	Pass
HE20	MCS0	2	181	6855	106/54	0.66	0.66			2.10	5.99		8.09	17.00	Pass
HE40	MCS0	2	123	6565	Full	0.00	0.00			0.24	5.99		6.23	17.00	Pass
HE40	MCS0	2	123	6565	242/61	0.00	0.00			0.17	5.99		6.15	17.00	Pass
HE40	MCS0	2	147	6685	Full	0.00	0.00			0.08	5.99		6.06	17.00	Pass
HE40	MCS0	2	147	6685	242/61	0.00	0.00			-0.08	5.99		5.91	17.00	Pass
HE40	MCS0	2	179	6845	Full	0.00	0.00			-0.29	5.99		5.70	17.00	Pass
HE40	MCS0	2	179	6845	242/62	0.00	0.00			-0.56	5.99		5.43	17.00	Pass
HE80	MCS0	2	135	6625	Full	0.00	0.00			-2.65	5.99		3.34	17.00	Pass
HE80	MCS0	2	135	6625	484/65	0.04	0.04			-3.60	5.99		2.39	17.00	Pass
HE80	MCS0	2	151	6705	Full	0.00	0.00			-2.86	5.99		3.13	17.00	Pass
HE80	MCS0	2	151	6705	484/65	0.04	0.04			-4.05	5.99		1.94	17.00	Pass
HE80	MCS0	2	167	6785	Full	0.00	0.00			-2.66	5.99		3.33	17.00	Pass
HE80	MCS0	2	167	6785	484/66	0.04	0.04			-2.85	5.99		3.13	17.00	Pass
HE160	MCS0	2	143	6665	Full	0.00	0.00			-5.51	5.99		0.48	17.00	Pass
HE160	MCS0	2	143	6665	996/67	0.10	0.11			-5.70	5.99		0.29	17.00	Pass

U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	185	6875	Full	0.00	0.00			2.81	5.99		8.80	17.00	Pass
HE20	MCS0	2	185	6875	26/8	0.64	0.65			2.80	5.99		8.79	17.00	Pass
HE20	MCS0	2	185	6875	52/40	0.58	0.60			2.65	5.99		8.64	17.00	Pass
HE20	MCS0	2	185	6875	106/54	0.66	0.66			2.39	5.99		8.38	17.00	Pass
HE40	MCS0	2	187	6885	Full	0.00	0.00			0.02	5.99		6.01	17.00	Pass
HE40	MCS0	2	187	6885	242/62	0.00	0.00			-0.03	5.99		5.95	17.00	Pass
HE80	MCS0	2	183	6865	Full	0.00	0.00			-3.30	5.99		2.69	17.00	Pass
HE80	MCS0	2	183	6865	484/66	0.04	0.04			-3.75	5.99		2.24	17.00	Pass
HE160	MCS0	2	175	6825	Full	0.00	0.00			-5.91	5.99		0.07	17.00	Pass
HE160	MCS0	2	175	6825	996/67	0.10	0.11			-5.96	5.99		0.03	17.00	Pass
HE160	MCS0	2	175	6825	996/S67	0.10	0.11			-5.96	5.99		0.03	17.00	Pass

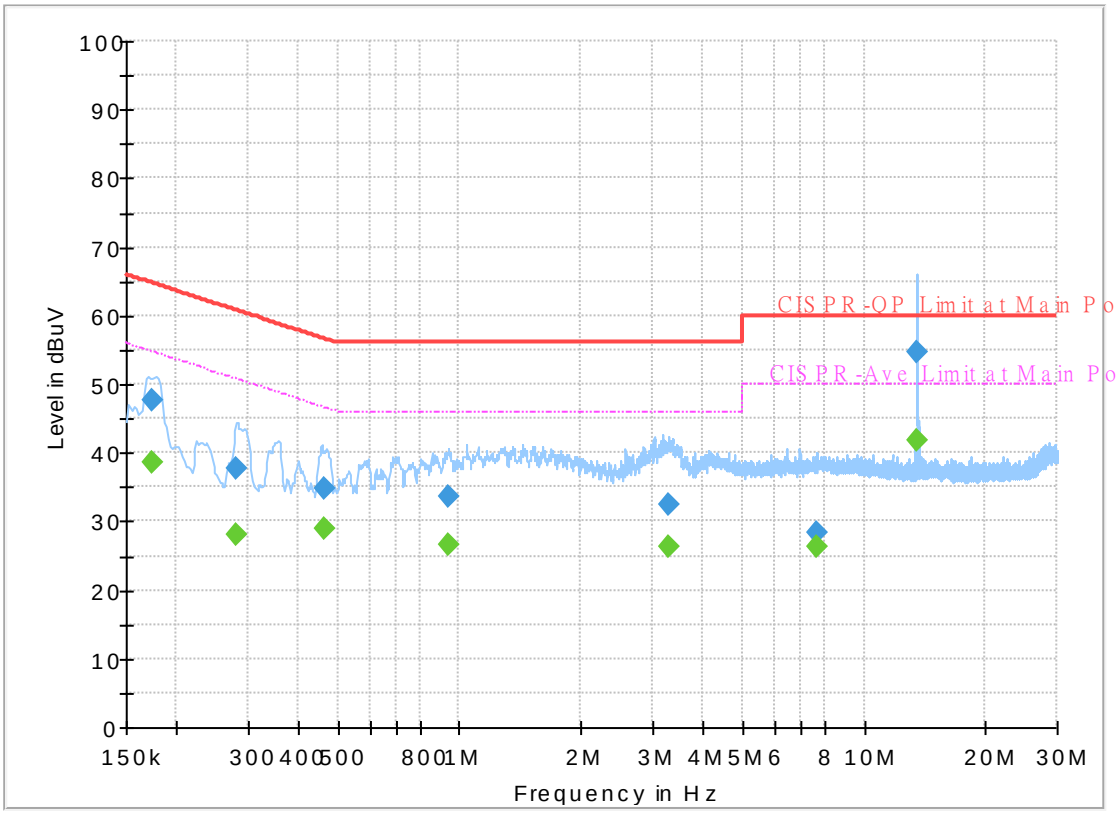
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	422224
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



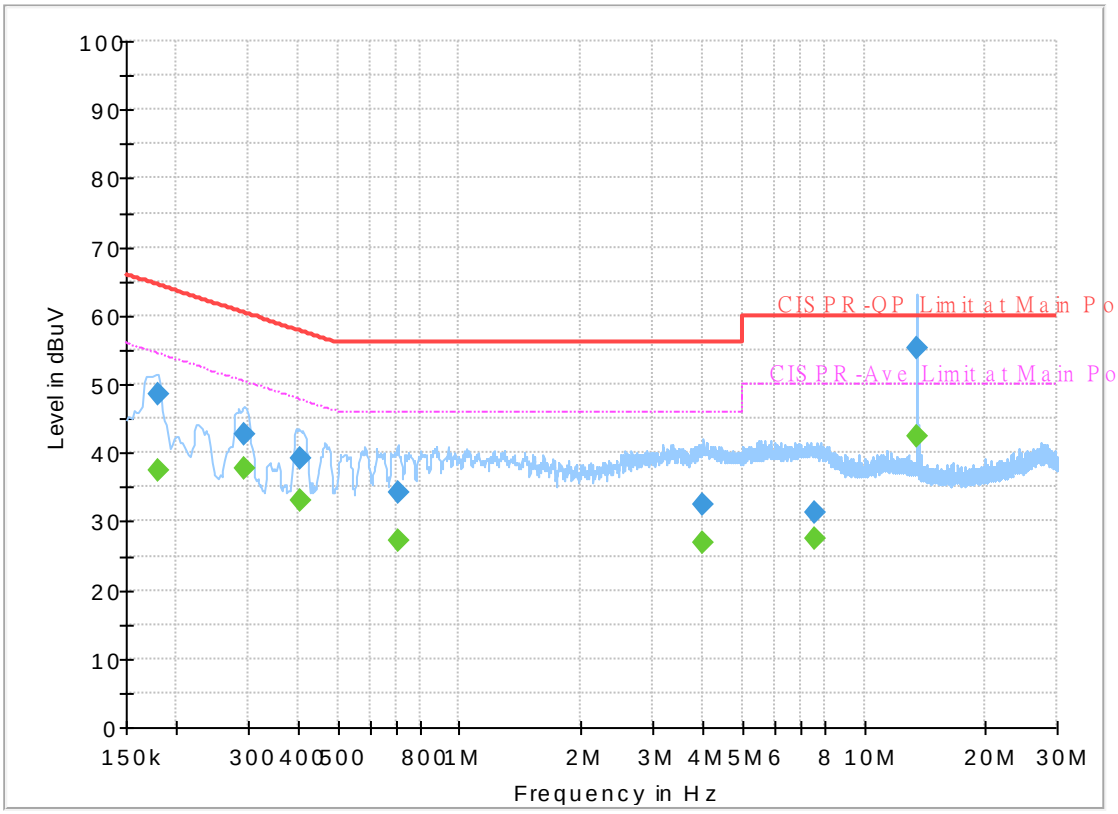
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.174750	---	38.51	54.73	16.22	L1	OFF	19.8
0.174750	47.70	---	64.73	17.03	L1	OFF	19.8
0.280500	---	27.99	50.80	22.81	L1	OFF	19.8
0.280500	37.72	---	60.80	23.08	L1	OFF	19.8
0.462750	---	28.87	46.64	17.77	L1	OFF	19.8
0.462750	34.82	---	56.64	21.82	L1	OFF	19.8
0.937500	---	26.60	46.00	19.40	L1	OFF	19.8
0.937500	33.53	---	56.00	22.47	L1	OFF	19.8
3.291000	---	26.26	46.00	19.74	L1	OFF	19.9
3.291000	32.48	---	56.00	23.52	L1	OFF	19.9
7.647000	---	26.26	50.00	23.74	L1	OFF	20.1
7.647000	28.41	---	60.00	31.59	L1	OFF	20.1
13.560000	---	41.90	50.00	8.10	L1	OFF	20.2
13.560000	54.66	---	60.00	5.34	L1	OFF	20.2

EUT Information

Report NO :	422224
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	37.29	54.52	17.23	N	OFF	19.8
0.179250	48.41	---	64.52	16.11	N	OFF	19.8
0.294000	---	37.84	50.41	12.57	N	OFF	19.8
0.294000	42.67	---	60.41	17.74	N	OFF	19.8
0.404250	---	33.01	47.77	14.76	N	OFF	19.8
0.404250	39.26	---	57.77	18.51	N	OFF	19.8
0.703500	---	27.25	46.00	18.75	N	OFF	19.8
0.703500	34.18	---	56.00	21.82	N	OFF	19.8
4.011000	---	27.01	46.00	18.99	N	OFF	20.0
4.011000	32.55	---	56.00	23.45	N	OFF	20.0
7.559250	---	27.48	50.00	22.52	N	OFF	20.1
7.559250	31.38	---	60.00	28.62	N	OFF	20.1
13.560000	---	42.47	50.00	7.53	N	OFF	20.3
13.560000	55.25	---	60.00	4.75	N	OFF	20.3

Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Ray Lung and Sky Chang	Temperature :	18~26°C
		Relative Humidity :	50~70%

<Sample 1>

Band 5 - 5925~6425MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5923.88	62.92	-25.28	88.2	50.81	33.8	13.5	35.19	103	187	P	H
		5925	54.88	-13.32	68.2	42.78	33.8	13.5	35.2	103	187	A	H
	*	5955	112.72	-	-	100.6	33.8	13.54	35.22	103	187	P	H
	*	5955	105.18	-	-	93.06	33.8	13.54	35.22	103	187	A	H
													H
													H
		5924.2	63.3	-24.9	88.2	51.19	33.8	13.5	35.19	100	155	P	V
		5925	55.53	-12.67	68.2	43.43	33.8	13.5	35.2	100	155	A	V
	*	5955	115.58	-	-	103.46	33.8	13.54	35.22	100	155	P	V
	*	5955	108.81	-	-	96.69	33.8	13.54	35.22	100	155	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 01 5955MHz		7940	46.59	-41.61	88.2	31.51	36.6	15.74	37.26	-	-	P	H
		11910	49.8	-24.2	74	32.62	38.5	19.89	41.21	-	-	P	H
		11910	39.58	-14.42	54	22.4	38.5	19.89	41.21	-	-	A	H
		17865	52.67	-21.33	74	35.43	40.23	24.39	47.38	-	-	P	H
		17865	43.58	-10.42	54	26.34	40.23	24.39	47.38	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
		7940	49.62	-38.58	88.2	34.54	36.6	15.74	37.26	-	-	P	V
		11910	49.75	-24.25	74	32.57	38.5	19.89	41.21	-	-	P	V
		11910	39.81	-14.19	54	22.63	38.5	19.89	41.21	-	-	A	V
		17865	51.31	-22.69	74	34.07	40.23	24.39	47.38	-	-	P	V
		17865	43.61	-10.39	54	26.37	40.23	24.39	47.38	-	-	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12390	51	-23	74	33.03	38.96	20.3	41.29	-	-	P	H
		12390	42.05	-11.95	54	24.08	38.96	20.3	41.29	-	-	A	H
		18585	42.29	-31.71	74	52.78	38.27	15.02	63.78	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 49 6195MHz		12390	51.88	-22.12	74	33.91	38.96	20.3	41.29	-	-	P	V
		12390	43.57	-10.43	54	25.6	38.96	20.3	41.29	-	-	A	V
		18585	44.95	-29.05	74	55.44	38.27	15.02	63.78	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12830	51.56	-36.64	88.2	32.02	40.22	20.67	41.35	-	-	P	H
		12830	41.63	-26.57	68.2	22.09	40.22	20.67	41.35	-	-	A	H
		19245	42.44	-31.56	74	52.55	38	15.5	63.61	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 93 6415MHz		12830	52.14	-36.06	88.2	32.6	40.22	20.67	41.35	-	-	P	V
		12830	41.93	-26.27	68.2	22.39	40.22	20.67	41.35	-	-	A	V
		19245	47.52	-26.48	74	57.63	38	15.5	63.61	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5922.92	64.18	-24.02	88.2	52.07	33.8	13.5	35.19	109	180	P	H
		5925	53.13	-15.07	68.2	41.03	33.8	13.5	35.2	109	180	A	H
	*	5955	112.84	-	-	100.72	33.8	13.54	35.22	109	180	P	H
	*	5955	106.04	-	-	93.92	33.8	13.54	35.22	109	180	A	H
802.11ax													H
HE20 Full													H
CH 01		5924.84	69.62	-18.58	88.2	57.52	33.8	13.5	35.2	277	156	P	V
5955MHz		5925	56.58	-11.62	68.2	44.48	33.8	13.5	35.2	277	156	A	V
	*	5955	113.12	-	-	101	33.8	13.54	35.22	277	156	P	V
	*	5955	106.44	-	-	94.32	33.8	13.54	35.22	277	156	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11910	49.47	-24.53	74	32.29	38.5	19.89	41.21	-	-	P	H
		11910	39.62	-14.38	54	22.44	38.5	19.89	41.21	-	-	A	H
		17865	61.5	-12.5	74	44.26	40.23	24.39	47.38	208	190	P	H
		17865	49.65	-4.35	54	32.41	40.23	24.39	47.38	208	190	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 01		11910	49.55	-24.45	74	32.37	38.5	19.89	41.21	-	-	P	V
5955MHz		11910	39.83	-14.17	54	22.65	38.5	19.89	41.21	-	-	A	V
		17865	61.75	-12.25	74	44.51	40.23	24.39	47.38	100	196	P	V
		17865	50.5	-3.5	54	33.26	40.23	24.39	47.38	100	196	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12390	49.76	-24.24	74	31.79	38.96	20.3	41.29	-	-	P	H
		18585	41.18	-32.82	74	51.67	38.27	15.02	63.78	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 49		12390	49.92	-24.08	74	31.95	38.96	20.3	41.29	-	-	P	V
6195MHz		18585	46.11	-27.89	74	56.6	38.27	15.02	63.78	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12830	53.06	-35.14	88.2	33.52	40.22	20.67	41.35	-	-	P	H
		19245	43.15	-30.85	74	53.26	38	15.5	63.61	-	-	P	H
		25660	39.75	-48.45	88.2	41.48	38.96	19.78	60.47	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 93		12830	54.31	-33.89	88.2	34.77	40.22	20.67	41.35	-	-	P	V
6415MHz		19245	47.04	-26.96	74	57.15	38	15.5	63.61	-	-	P	V
		25660	43.39	-44.81	88.2	45.12	38.96	19.78	60.47	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5923.88	86.9	-1.3	88.2	74.79	33.8	13.5	35.19	125	187	P	H
		5925	64.87	-3.33	68.2	52.77	33.8	13.5	35.2	125	187	A	H
	*	5955	112.87	-	-	100.75	33.8	13.54	35.22	125	187	P	H
802.11ax	*	5955	105.43	-	-	93.31	33.8	13.54	35.22	125	187	A	H
HE20													H
Partial													H
106/53		5922.92	87.06	-1.14	88.2	74.95	33.8	13.5	35.19	140	156	P	V
CH 01		5925	65.18	-3.02	68.2	53.08	33.8	13.5	35.2	140	156	A	V
5955MHz	*	5955	116.82	-	-	104.7	33.8	13.54	35.22	140	156	P	V
	*	5955	110.28	-	-	98.16	33.8	13.54	35.22	140	156	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5921.64	71.98	-16.22	88.2	59.87	33.8	13.5	35.19	329	190	P	H
		5925	60.17	-8.03	68.2	48.07	33.8	13.5	35.2	329	190	A	H
	*	5965	112.38	-	-	100.26	33.8	13.55	35.23	329	190	P	H
	*	5965	102.72	-	-	90.6	33.8	13.55	35.23	329	190	A	H
802.11ax													H
HE40 Full													H
CH 03		5924.2	71.14	-17.06	88.2	59.03	33.8	13.5	35.19	113	161	P	V
5965MHz		5925	61.78	-6.42	68.2	49.68	33.8	13.5	35.2	113	161	A	V
	*	5965	114.4	-	-	102.28	33.8	13.55	35.23	113	161	P	V
	*	5965	106.7	-	-	94.58	33.8	13.55	35.23	113	161	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5925~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11930	49.97	-24.03	74	32.8	38.5	19.91	41.24	-	-	P	H
		17895	56.97	-17.03	74	39.62	40.29	24.41	47.35	204	190	P	H
		17895	46.68	-7.32	54	29.33	40.29	24.41	47.35	204	190	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 03		11930	49.05	-24.95	74	31.88	38.5	19.91	41.24	-	-	P	V
5965MHz		17895	58.29	-15.71	74	40.94	40.29	24.41	47.35	101	197	P	V
		17895	47.46	-6.54	54	30.11	40.29	24.41	47.35	101	197	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12410	53.33	-20.67	74	35.27	39.04	20.31	41.29	100	236	P	H
		12410	43.92	-10.08	54	25.86	39.04	20.31	41.29	100	236	A	H
		18615	40.98	-33.02	74	51.47	38.24	15.05	63.78	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 51		12410	55.21	-18.79	74	37.15	39.04	20.31	41.29	280	197	P	V
6205MHz		12410	44.85	-9.15	54	26.79	39.04	20.31	41.29	280	197	A	V
		18615	45.28	-28.72	74	55.77	38.24	15.05	63.78	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12810	52.38	-15.82	68.2	32.94	40.14	20.65	41.35	-	-	P	H
		19215	42.59	-31.41	74	52.73	38	15.48	63.62	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 91		12810	53.16	-15.04	68.2	33.72	40.14	20.65	41.35	-	-	P	V
6405MHz		19215	46.45	-27.55	74	56.59	38	15.48	63.62	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 5 5925~6425MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5923.24	79.74	-8.46	88.2	67.63	33.8	13.5	35.19	100	181	P	H
		5922.92	62.52	-5.68	68.2	50.41	33.8	13.5	35.19	100	181	A	H
	*	5965	109.27	-	-	97.15	33.8	13.55	35.23	100	181	P	H
802.11ax	*	5965	101.76	-	-	89.64	33.8	13.55	35.23	100	181	A	H
HE40													H
Partial													H
242/61		5920.68	82.21	-5.99	88.2	70.11	33.8	13.49	35.19	115	162	P	V
CH 03		5922.92	64.3	-3.9	68.2	52.19	33.8	13.5	35.19	115	162	A	V
5965MHz	*	5965	113.36	-	-	101.24	33.8	13.55	35.23	115	162	P	V
	*	5965	104.84	-	-	92.72	33.8	13.55	35.23	115	162	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5920.04	75.7	-12.5	88.2	63.6	33.8	13.49	35.19	101	191	P	H
		5923.88	64.11	-4.09	68.2	52	33.8	13.5	35.19	101	191	A	H
	*	5985	105.71	-	-	93.59	33.8	13.57	35.25	101	191	P	H
	*	5985	98.18	-	-	86.06	33.8	13.57	35.25	101	191	A	H
802.11ax													H
HE80 Full													H
CH 07		5921.64	76.11	-12.09	88.2	64	33.8	13.5	35.19	119	170	P	V
5985MHz		5921	65.67	-2.53	68.2	53.56	33.8	13.5	35.19	119	170	A	V
	*	5985	113.23	-	-	101.11	33.8	13.57	35.25	119	170	P	V
	*	5985	103.86	-	-	91.74	33.8	13.57	35.25	119	170	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11970	49.25	-24.75	74	32.07	38.54	19.94	41.3	-	-	P	H
		11970	39.6	-14.4	54	22.42	38.54	19.94	41.3	-	-	A	H
		17955	51.8	-22.2	74	34.15	40.49	24.09	47.29	-	-	P	H
		17955	46.97	-7.03	54	29.32	40.49	24.09	47.29	-	-	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 07		11970	49.57	-24.43	74	32.39	38.54	19.94	41.3	-	-	P	V
5985MHz		11970	39.56	-14.44	54	22.38	38.54	19.94	41.3	-	-	A	V
		17955	52.33	-21.67	74	34.68	40.49	24.09	47.29	-	-	P	V
		17955	49.49	-4.51	54	31.84	40.49	24.09	47.29	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12450	51.74	-22.26	74	33.48	39.2	20.35	41.29	-	-	P	H
		12450	40.71	-13.29	54	22.45	39.2	20.35	41.29	-	-	A	H
		18675	39.53	-34.47	74	50.25	37.95	15.09	63.76	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 55		12450	51.31	-22.69	74	33.05	39.2	20.35	41.29	-	-	P	V
6225MHz		12450	40.73	-13.27	54	22.47	39.2	20.35	41.29	-	-	A	V
		18675	45.48	-28.52	74	56.2	37.95	15.09	63.76	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12770	51.24	-36.96	88.2	31.98	39.98	20.62	41.34	-	-	P	H
		19155	41.78	-32.22	74	51.53	38.45	15.44	63.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 87		12770	53.01	-35.19	88.2	33.75	39.98	20.62	41.34	-	-	P	V
6385MHz		19155	44.54	-29.46	74	54.29	38.45	15.44	63.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5924.84	81.91	-6.29	88.2	69.81	33.8	13.5	35.2	294	186	P	H
		5924.84	63.77	-4.43	68.2	51.67	33.8	13.5	35.2	294	186	A	H
	*	5985	105.82	-	-	93.7	33.8	13.57	35.25	294	186	P	H
802.11ax	*	5985	97.74	-	-	85.62	33.8	13.57	35.25	294	186	A	H
HE80													H
Partial													H
484/65		5919.4	83.28	-4.92	88.2	71.18	33.8	13.49	35.19	101	166	P	V
CH 07		5924.84	64.83	-3.37	68.2	52.73	33.8	13.5	35.2	101	166	A	V
5985MHz	*	5985	112.35	-	-	100.23	33.8	13.57	35.25	101	166	P	V
	*	5985	102.96	-	-	90.84	33.8	13.57	35.25	101	166	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5901.8	67.38	-20.82	88.2	55.29	33.8	13.47	35.18	100	262	P	H
		5900.52	57.88	-10.32	68.2	45.78	33.8	13.47	35.17	100	262	A	H
	*	6025	102.77	-	-	90.58	33.85	13.62	35.28	100	262	P	H
	*	6025	95.59	-	-	83.4	33.85	13.62	35.28	100	262	A	H
802.11ax													H
HE160 Full													H
CH 15		5890.92	74.42	-13.78	88.2	62.33	33.8	13.46	35.17	100	151	P	V
6025MHz		5898.92	65.44	-2.76	68.2	53.34	33.8	13.47	35.17	100	151	A	V
	*	6025	107.66	-	-	95.47	33.85	13.62	35.28	100	151	P	V
	*	6025	100.01	-	-	87.82	33.85	13.62	35.28	100	151	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12050	50.41	-23.59	74	33.03	38.7	20.01	41.33	-	-	P	H
		12050	39.42	-14.58	54	22.04	38.7	20.01	41.33	-	-	A	H
		18075	38.94	-35.06	74	50.67	37.6	14.64	63.97	-	-	P	H
		24100	40.6	-47.6	88.2	42.88	39.1	18.86	60.24	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 15		12050	49.64	-24.36	74	32.26	38.7	20.01	41.33	-	-	P	V
6025MHz		12050	39.46	-14.54	54	22.08	38.7	20.01	41.33	-	-	A	V
		18075	38.43	-35.57	74	50.16	37.6	14.64	63.97	-	-	P	V
		24100	43.15	-45.05	88.2	45.43	39.1	18.86	60.24	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12370	49.75	-24.25	74	31.89	38.88	20.28	41.3	-	-	P	H
		12370	39.96	-14.04	54	22.1	38.88	20.28	41.3	-	-	A	H
		18555	39.64	-34.36	74	50.22	38.21	15	63.79	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 47		12370	49.47	-24.53	74	31.61	38.88	20.28	41.3	-	-	P	V
6185MHz		12370	40.03	-13.97	54	22.17	38.88	20.28	41.3	-	-	A	V
		18555	42.9	-31.1	74	53.48	38.21	15	63.79	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12690	50.45	-23.55	74	31.42	39.8	20.55	41.32	-	-	P	H
		12690	40.91	-13.09	54	21.88	39.8	20.55	41.32	-	-	A	H
		19035	39.39	-34.61	74	49.25	38.47	15.36	63.69	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 79		12690	51.03	-22.97	74	32	39.8	20.55	41.32	-	-	P	V
6345MHz		12690	40.94	-13.06	54	21.91	39.8	20.55	41.32	-	-	A	V
		19035	43.43	-30.57	74	53.29	38.47	15.36	63.69	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5907.24	81.87	-6.33	88.2	69.77	33.8	13.48	35.18	101	179	P	H
		5921.32	66.94	-1.26	68.2	54.83	33.8	13.5	35.19	101	179	A	H
	*	6025	106.67	-	-	94.48	33.85	13.62	35.28	101	179	P	H
802.11ax	*	6025	98.06	-	-	85.87	33.85	13.62	35.28	101	179	A	H
HE160													H
Partial													H
996/67		5878.76	82.05	-6.15	88.2	69.97	33.8	13.44	35.16	102	149	P	V
CH 15		5921.64	66.66	-1.54	68.2	54.55	33.8	13.5	35.19	102	149	A	V
6025MHz	*	6025	109.69	-	-	97.5	33.85	13.62	35.28	102	149	P	V
	*	6025	100.73	-	-	88.54	33.85	13.62	35.28	102	149	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 7 - 6525~6875MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 117 6535MHz		13070	53.44	-34.76	88.2	34.08	40.04	20.87	41.55	-	-	P	H
		19605	55.48	-18.52	74	64.81	38.27	15.75	63.35	181	0	P	H
		19605	44.19	-9.81	54	53.52	38.27	15.75	63.35	181	0	A	H
		26140	42.92	-45.28	88.2	44.35	39.08	20.06	60.57	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
		13070	51.68	-36.52	88.2	32.32	40.04	20.87	41.55	-	-	P	V
		19605	55.35	-18.65	74	64.68	38.27	15.75	63.35	224	0	P	V
		19605	44.26	-9.74	54	53.59	38.27	15.75	63.35	224	0	A	V
		26140	47.13	-41.07	88.2	48.56	39.08	20.06	60.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13390	51.88	-22.12	74	32.94	40.1	21.13	42.29	-	-	P	H
		13390	41.71	-12.29	54	22.77	40.1	21.13	42.29	-	-	A	H
		20085	55.36	-18.64	74	63.85	38.03	16.06	62.58	193	265	P	H
		20085	43	-11	54	51.49	38.03	16.06	62.58	193	265	A	H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 149 6695MHz		13390	51.12	-22.88	74	32.18	40.1	21.13	42.29	-	-	P	V
		13390	42.17	-11.83	54	23.23	40.1	21.13	42.29	-	-	A	V
		20085	50.59	-23.41	74	59.08	38.03	16.06	62.58	185	194	P	V
		20085	37.81	-16.19	54	46.3	38.03	16.06	62.58	185	194	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13710	52.06	-36.14	88.2	33.26	40.22	21.4	42.82	-	-	P	H
		20565	47.37	-26.63	74	55.05	37.94	16.34	61.96	150	69	P	H
		20565	36.08	-17.92	54	43.76	37.94	16.34	61.96	150	69	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 181 6855MHz		13710	51.98	-36.22	88.2	33.18	40.22	21.4	42.82	-	-	P	V
		20565	54.2	-19.8	74	61.88	37.94	16.34	61.96	200	158	P	V
		20565	42.77	-11.23	54	50.45	37.94	16.34	61.96	200	158	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13750	51.91	-36.29	88.2	33.05	40.3	21.43	42.87	-	-	P	H
		20625	61.02	-12.98	74	68.71	37.85	16.38	61.92	183	66	P	H
		20625	40.53	-13.47	54	48.22	37.85	16.38	61.92	183	66	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 185 6875MHz		13750	52.27	-35.93	88.2	33.41	40.3	21.43	42.87	-	-	P	V
		20625	52.47	-21.53	74	60.16	37.85	16.38	61.92	100	137	P	V
		20625	40.82	-13.18	54	48.51	37.85	16.38	61.92	100	137	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 7 - 6525~6875MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13070	52.01	-16.19	68.2	32.65	40.04	20.87	41.55	-	-	P	H
		19605	55.16	-18.84	74	64.49	38.27	15.75	63.35	184	0	P	H
		19605	44.22	-9.78	54	53.55	38.27	15.75	63.35	184	0	A	H
		26140	42.95	-45.25	88.2	44.38	39.08	20.06	60.57	-	-	P	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 117		13070	51.06	-17.14	68.2	31.7	40.04	20.87	41.55	-	-	P	V
6535MHz		19605	55.81	-18.19	74	65.14	38.27	15.75	63.35	226	0	P	V
		19605	44.4	-9.6	54	53.73	38.27	15.75	63.35	226	0	A	V
		26140	46.1	-42.1	88.2	47.53	39.08	20.06	60.57	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13390	52.16	-21.84	74	33.22	40.1	21.13	42.29	-	-	P	H
		13390	42.25	-11.75	54	23.31	40.1	21.13	42.29	-	-	A	H
		20085	47.96	-26.04	74	56.45	38.03	16.06	62.58	184	264	P	H
		20085	36.97	-17.03	54	45.46	38.03	16.06	62.58	184	264	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 149		13390	52.03	-21.97	74	33.09	40.1	21.13	42.29	-	-	P	V
6695MHz		13390	41.88	-12.12	54	22.94	40.1	21.13	42.29	-	-	A	V
		20085	53.67	-20.33	74	62.16	38.03	16.06	62.58	101	161	P	V
		20085	42.1	-11.9	54	50.59	38.03	16.06	62.58	101	161	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13710	55.88	-12.32	68.2	37.08	40.22	21.4	42.82	-	-	P	H
		20565	45.61	-28.39	74	53.29	37.94	16.34	61.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 181		13710	57.79	-10.41	68.2	38.99	40.22	21.4	42.82	-	-	P	V
6855MHz		20565	53.9	-20.1	74	61.58	37.94	16.34	61.96	193	155	P	V
		20565	43.28	-10.72	54	50.96	37.94	16.34	61.96	193	155	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13750	51.96	-16.24	68.2	33.1	40.3	21.43	42.87	-	-	P	H
		20625	45.35	-28.65	74	53.04	37.85	16.38	61.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 185		13750	52.55	-15.65	68.2	33.69	40.3	21.43	42.87	-	-	P	V
6875MHz		20625	51.98	-22.02	74	59.67	37.85	16.38	61.92	192	156	P	V
		20625	42.91	-11.09	54	50.6	37.85	16.38	61.92	192	156	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 7 - 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13130	51.29	-16.91	68.2	31.96	40.1	20.92	41.69	-	-	P	H
		19695	51.86	-22.14	74	61.07	38.18	15.81	63.2	183	360	P	H
		19695	43.33	-10.67	54	52.54	38.18	15.81	63.2	183	360	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 123		13130	51.62	-16.58	68.2	32.29	40.1	20.92	41.69	-	-	P	V
6565MHz		19695	53.81	-20.19	74	63.02	38.18	15.81	63.2	101	356	P	V
		19695	44.32	-9.68	54	53.53	38.18	15.81	63.2	101	356	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13370	53.35	-20.65	74	34.37	40.1	21.12	42.24	397	299	P	H
		13370	45	-9	54	26.02	40.1	21.12	42.24	397	299	A	H
		20055	47.82	-26.18	74	56.31	38.09	16.04	62.62	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 147		13370	56.79	-17.21	74	37.81	40.1	21.12	42.24	103	7	P	V
6685MHz		13370	47.83	-6.17	54	28.85	40.1	21.12	42.24	103	7	A	V
		20055	47.63	-26.37	74	56.12	38.09	16.04	62.62	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13690	56.13	-12.07	68.2	37.38	40.16	21.38	42.79	-	-	P	H
		20535	51.39	-22.61	74	59.04	38	16.33	61.98	100	334	P	H
		20535	41.55	-12.45	54	49.2	38	16.33	61.98	100	334	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 179		13690	57.79	-10.41	68.2	39.04	40.16	21.38	42.79	-	-	P	V
6845MHz		20535	49.84	-24.16	74	57.49	38	16.33	61.98	182	320	P	V
		20535	41.62	-12.38	54	49.27	38	16.33	61.98	182	320	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13770	53.71	-14.49	68.2	34.86	40.3	21.45	42.9	-	-	P	H
		20655	46.73	-27.27	74	54.33	37.91	16.4	61.91	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 187		13770	54.63	-13.57	68.2	35.78	40.3	21.45	42.9	-	-	P	V
6885MHz		20655	47.62	-26.38	74	55.22	37.91	16.4	61.91	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 7 - 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13250	51.31	-22.69	74	32.16	40.1	21.02	41.97	183	97	P	H
		13250	41.03	-12.97	54	21.88	40.1	21.02	41.97	183	97	A	H
		19875	46.3	-27.7	74	55.17	38.1	15.93	62.9	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 135		13250	53.73	-20.27	74	34.58	40.1	21.02	41.97	100	227	P	V
6625MHz		13250	41.62	-12.38	54	22.47	40.1	21.02	41.97	100	227	A	V
		19875	47.75	-26.25	74	56.62	38.1	15.93	62.9	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13410	50.89	-37.31	88.2	31.97	40.1	21.15	42.33	-	-	P	H
		20115	43.74	-30.26	74	52.17	38.03	16.08	62.54	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 151		13410	52.28	-35.92	88.2	33.36	40.1	21.15	42.33	-	-	P	V
6705MHz		20115	45.72	-28.28	74	54.15	38.03	16.08	62.54	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13570	50.94	-37.26	88.2	32.17	40.12	21.28	42.63	-	-	P	H
		20355	45.14	-28.86	74	53.21	37.91	16.22	62.2	-	-	P	H
		27140	40.19	-48.01	88.2	41.69	39.5	20.53	61.53	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 167		13570	51.31	-36.89	88.2	32.54	40.12	21.28	42.63	-	-	P	V
6785MHz		20355	46.55	-27.45	74	54.62	37.91	16.22	62.2	-	-	P	V
		27140	45.03	-43.17	88.2	46.53	39.5	20.53	61.53	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13730	52.63	-35.57	88.2	33.79	40.26	21.42	42.84	-	-	P	H
		20595	39.02	-34.98	74	46.78	37.82	16.36	61.94	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 183		13730	51.64	-36.56	88.2	32.8	40.26	21.42	42.84	-	-	P	V
6865MHz		20595	38.87	-35.13	74	46.63	37.82	16.36	61.94	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Band 7 - 6525~6875MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13330	50.99	-23.01	74	31.96	40.1	21.08	42.15	-	-	P	H
		13330	41.07	-12.93	54	22.04	40.1	21.08	42.15	-	-	A	H
		19995	42.41	-31.59	74	51.3	37.81	16.01	62.71	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 143		13330	51.86	-22.14	74	32.83	40.1	21.08	42.15	-	-	P	V
6665MHz		13330	41.11	-12.89	54	22.08	40.1	21.08	42.15	-	-	A	V
		19995	42.29	-31.71	74	51.18	37.81	16.01	62.71	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13650	52.15	-36.05	88.2	33.54	40	21.35	42.74	-	-	P	H
		20475	45.31	-28.69	74	53.1	37.95	16.29	62.03	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 175		13650	52.91	-35.29	88.2	34.3	40	21.35	42.74	-	-	P	V
6825MHz		20475	45.01	-28.99	74	52.8	37.95	16.29	62.03	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full LF		32.16	22.3	-17.7	40	30.14	23.9	0.97	32.74	-	-	P	H
		147.45	23.75	-19.75	43.5	37.06	17.26	2.06	32.7	-	-	P	H
		261.39	21.06	-24.94	46	30.92	20.01	2.77	32.75	-	-	P	H
		562.5	27.81	-18.19	46	556.54	-500	4.08	33.01	-	-	P	H
		860.7	32.62	-13.38	46	559.78	-500	5.01	32.37	-	-	P	H
		974.1	34.32	-19.68	54	560.14	-500	5.33	31.4	-	-	P	H
													H
													H
													H
													H
													H
													H
		32.7	29.52	-10.48	40	37.72	23.54	0.97	32.74	-	-	P	V
		151.5	21.54	-21.96	43.5	35.1	16.98	2.09	32.7	-	-	P	V
		263.82	20.04	-25.96	46	29.79	20.12	2.78	32.75	-	-	P	V
		531	26.19	-19.81	46	554.98	-500	3.95	32.97	-	-	P	V
		868.4	32.15	-13.85	46	559.24	-500	5.04	32.32	-	-	P	V
		961.5	35.46	-18.54	54	561.45	-500	5.29	31.52	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

<Sample 2>

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5925	83.8	-4.4	88.2	71.7	33.8	13.5	35.2	100	199	P	H
		5920.04	65.09	-3.11	68.2	52.99	33.8	13.49	35.19	100	199	A	H
	*	5955	112.36			100.24	33.8	13.54	35.22	100	199	P	H
802.11ax	*	5955	104.88			92.76	33.8	13.54	35.22	100	199	A	H
HE20													H
Partial													H
106/53		5923.24	85.8	-2.4	88.2	73.69	33.8	13.5	35.19	105	122	P	V
CH 01		5914.28	66.88	-1.32	68.2	54.78	33.8	13.49	35.19	105	122	A	V
5955MHz	*	5955	118			105.88	33.8	13.54	35.22	105	122	P	V
	*	5955	110			97.88	33.8	13.54	35.22	105	122	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 01 5955MHz		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
		5925	43.54	-24.66	68.2	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5925MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 88.2(dBμV/m)

= -32.75(dB)

For Average Limit @ 5925MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54(dBμV/m)

2. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54 (dBμV/m) – 68.2(dBμV/m)

= -24.66(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jack Cheng, Ray Lung and Sky Chang	**Temperature :**	18~26°C
		Relative Humidity :	50~70%

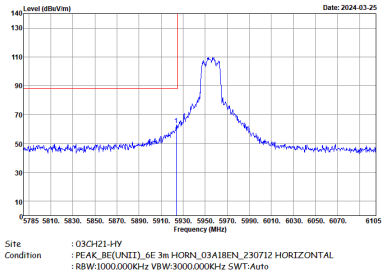
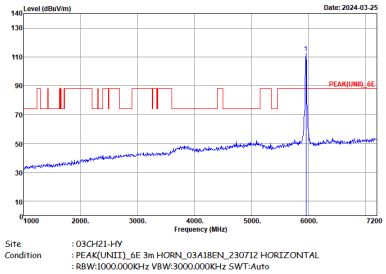
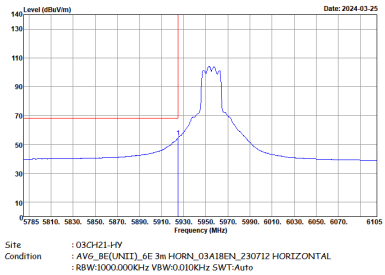
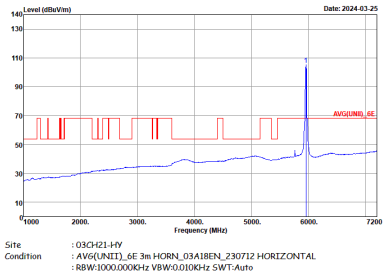
Note symbol

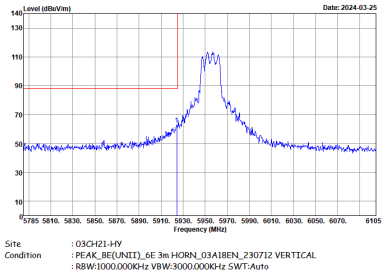
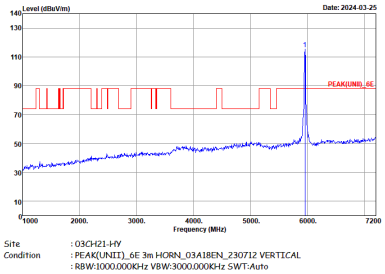
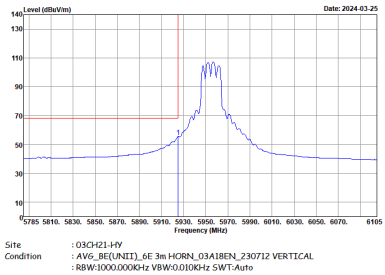
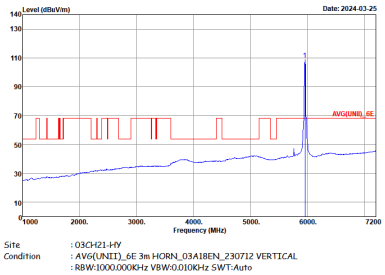
-L	**Low channel location**
-R	**High channel location**

<Sample 1>

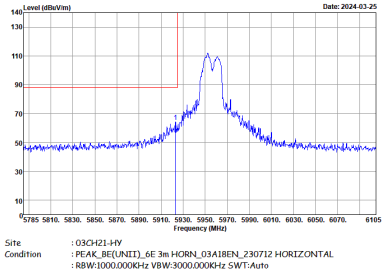
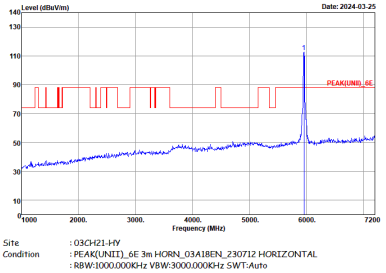
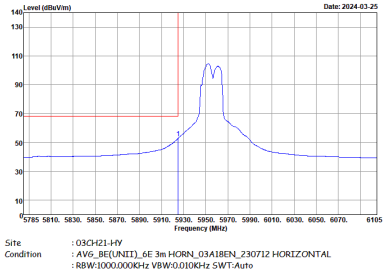
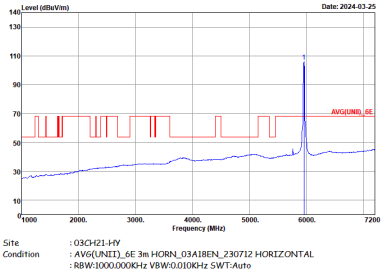
Band 5 - 5925~6425MHz

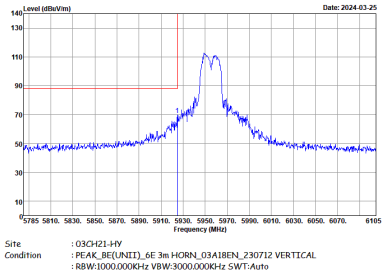
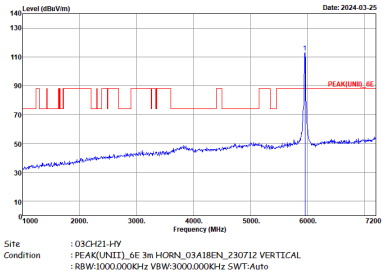
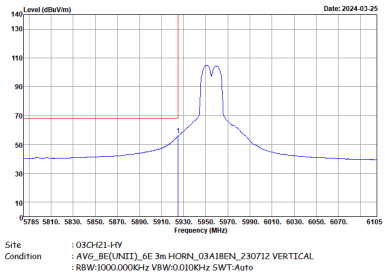
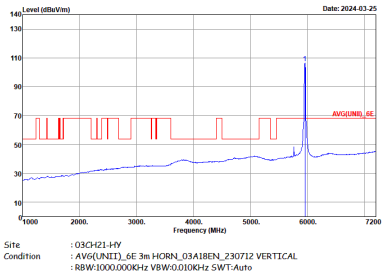
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11a CH01 5955MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

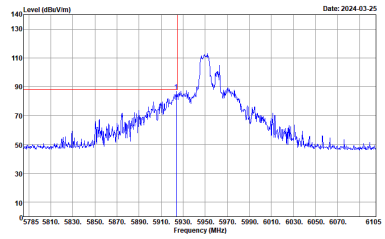
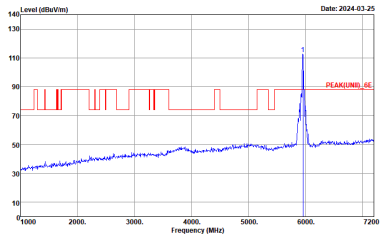
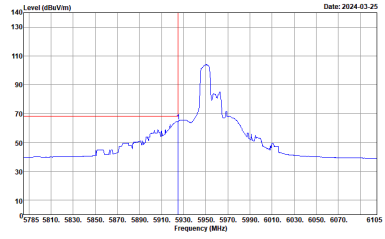
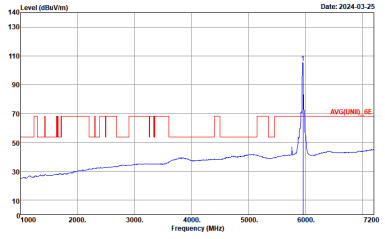
Band 5 5925~6425MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

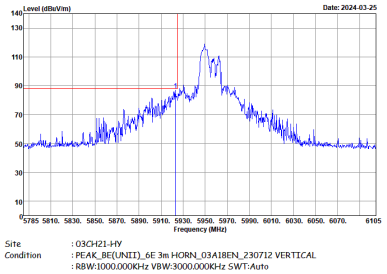
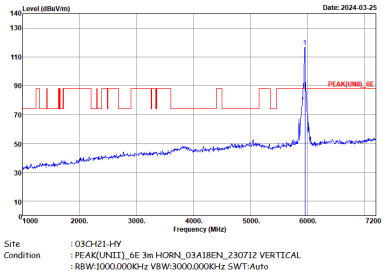
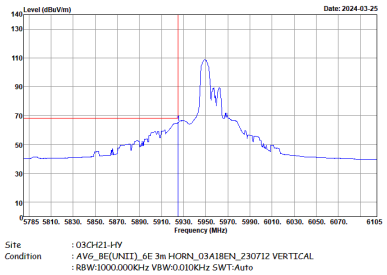
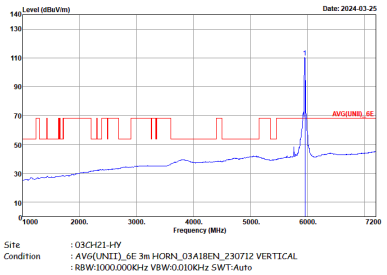
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

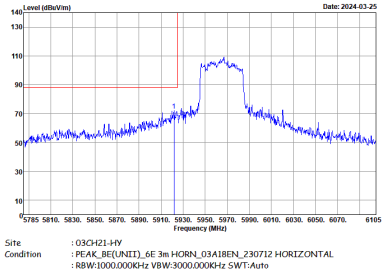
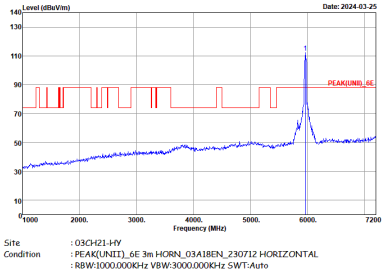
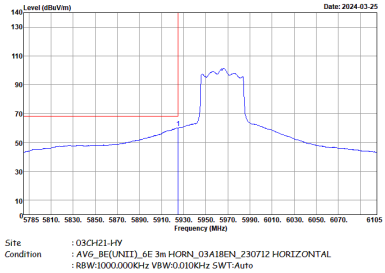
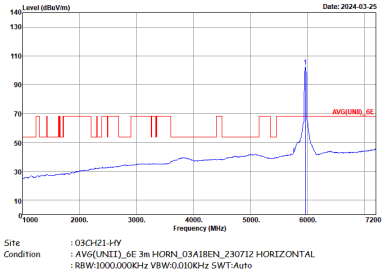
Band 5 5925~6425MHz

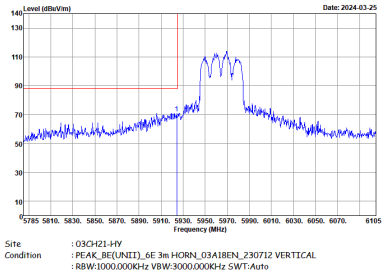
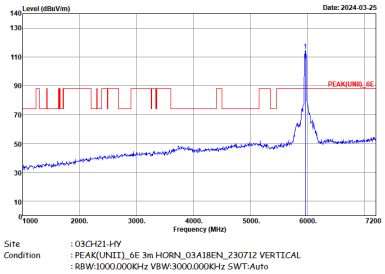
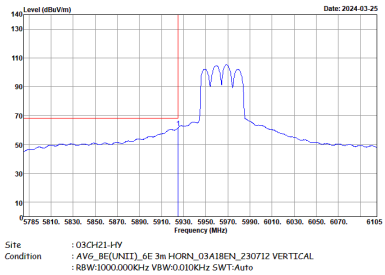
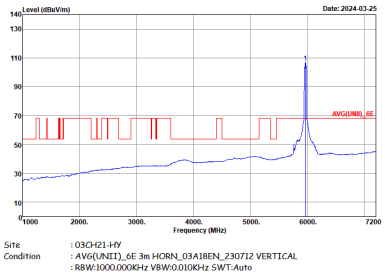
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

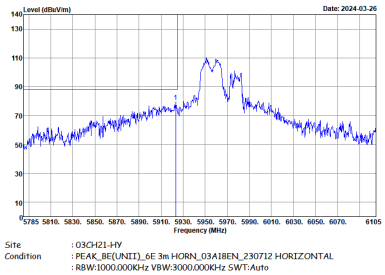
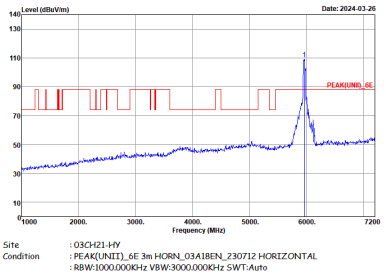
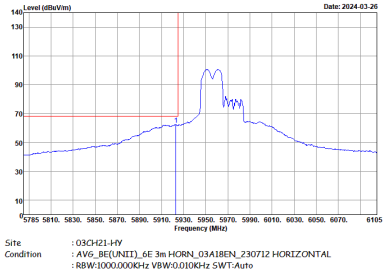
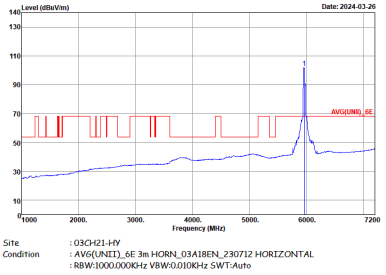
Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

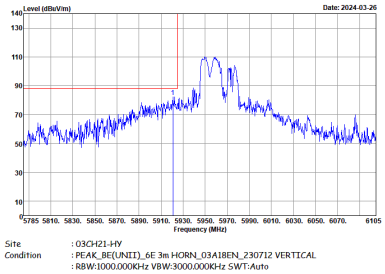
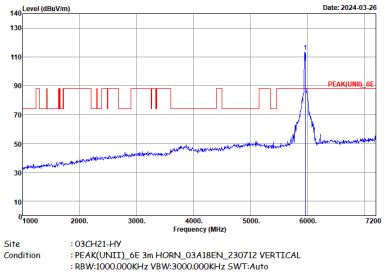
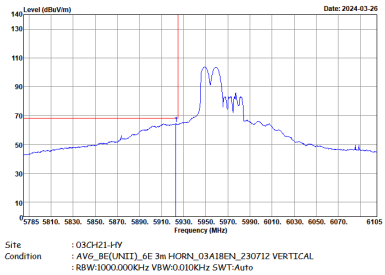
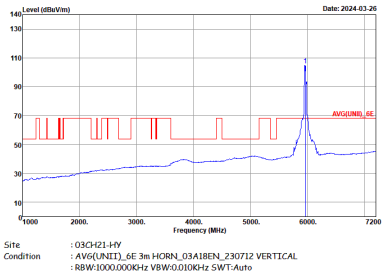
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

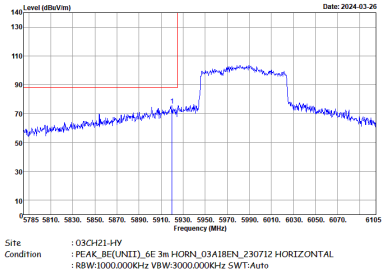
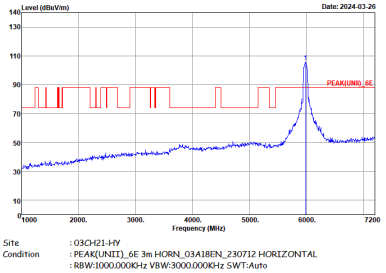
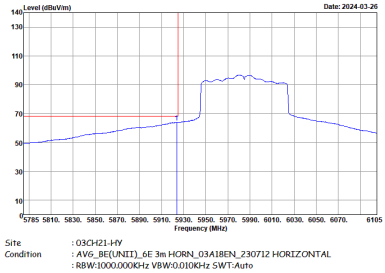
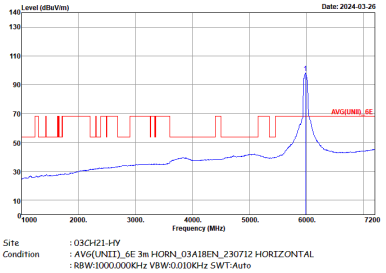
Band 5 5925~6425MHz

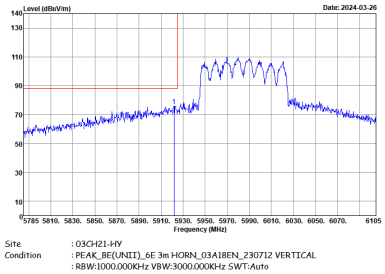
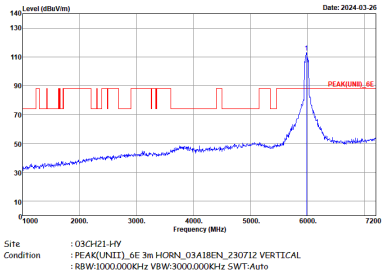
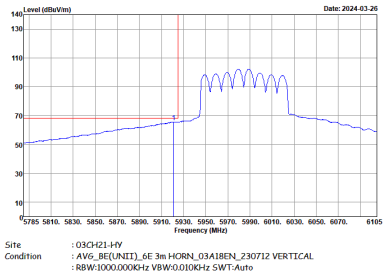
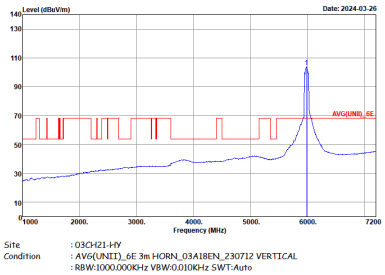
WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH03 5965MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

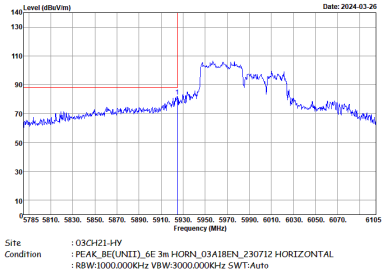
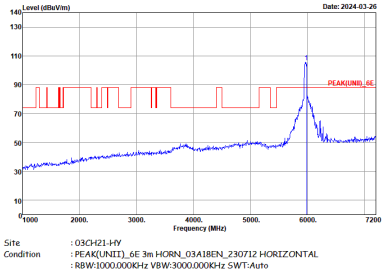
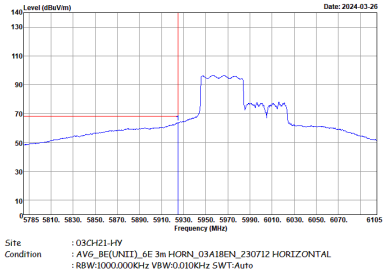
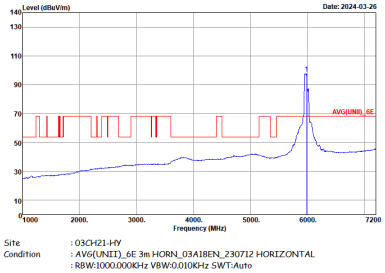
Band 5 5925~6425MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

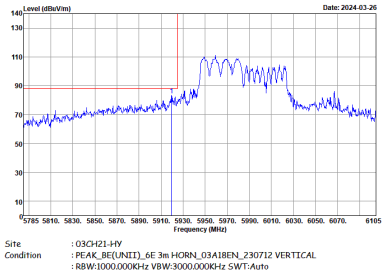
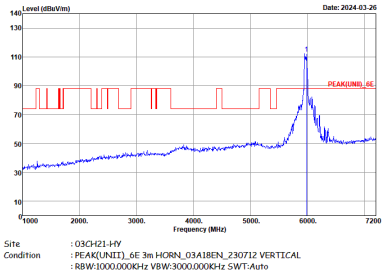
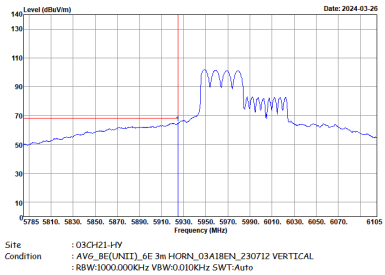
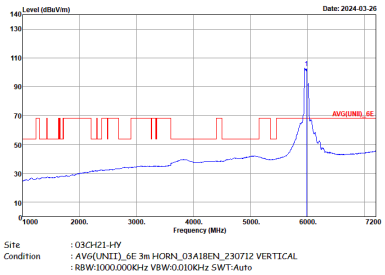
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

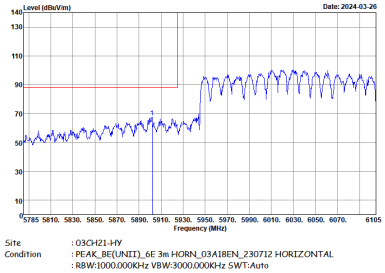
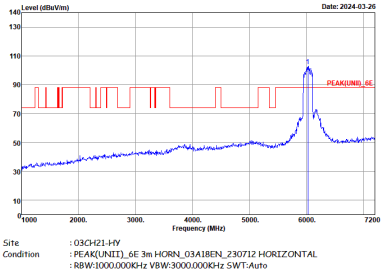
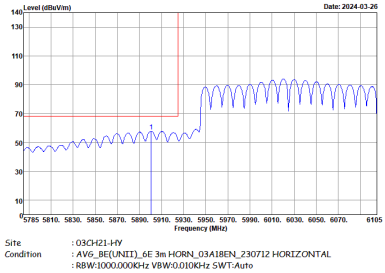
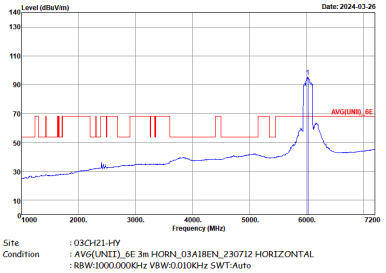
Band 5 5925~6425MHz

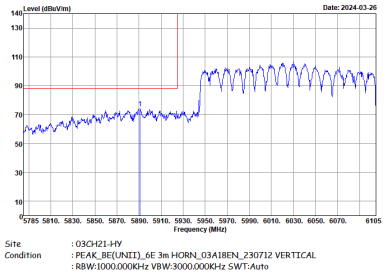
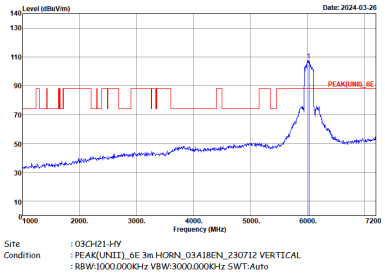
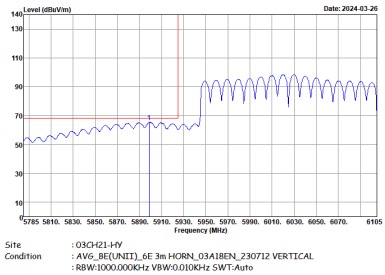
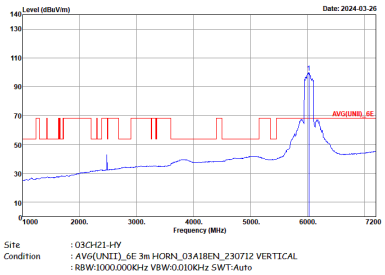
WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH07 5985MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH07 5985MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

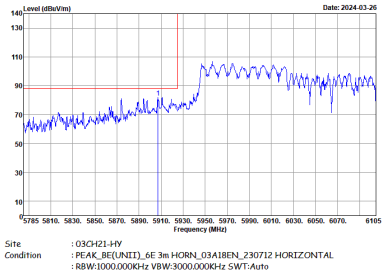
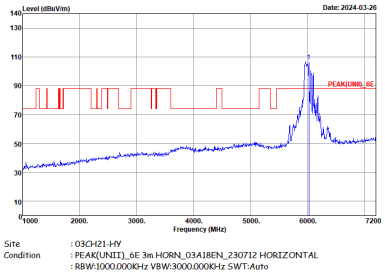
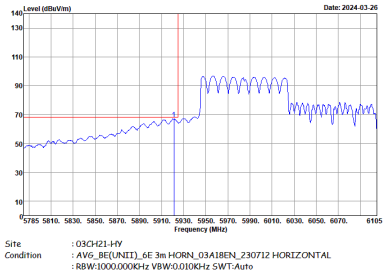
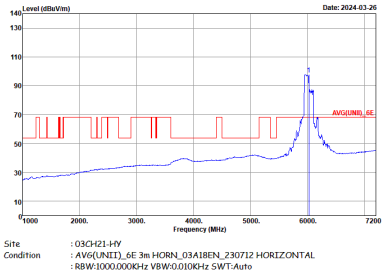
Band 5 5925~6425MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

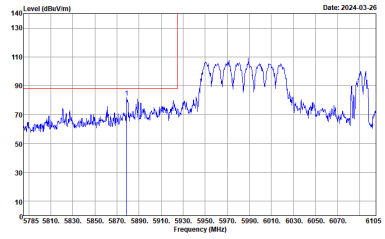
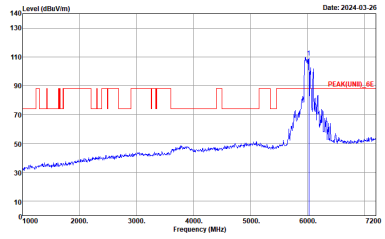
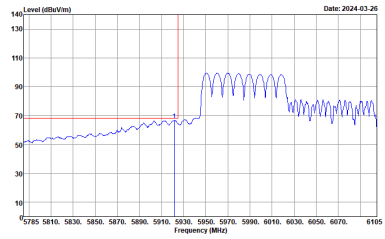
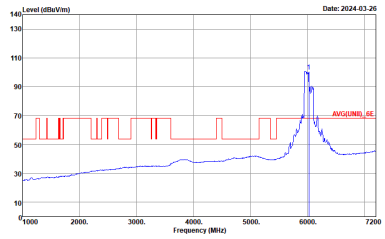
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
0+1	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition : PEAK_BE(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH21-HY Condition : AVG_BE(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH21-HY Condition : AVG(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

Band 5 5925~6425MHz

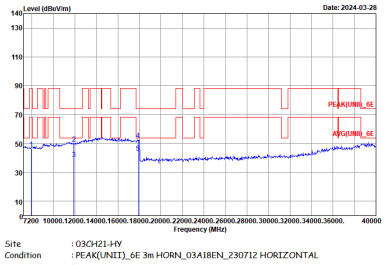
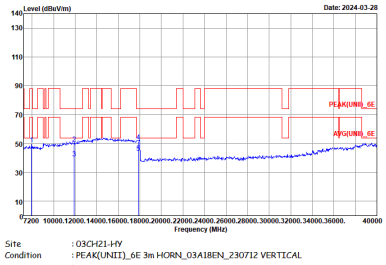
WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

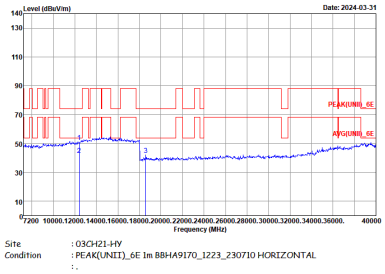
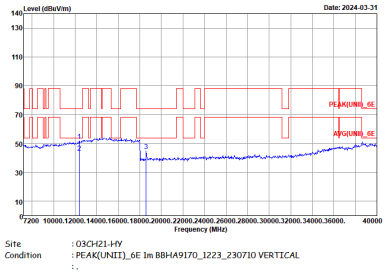
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

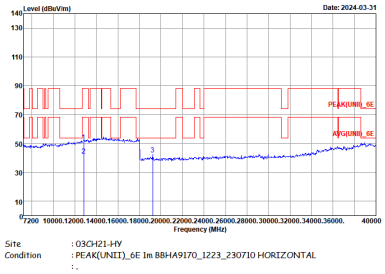
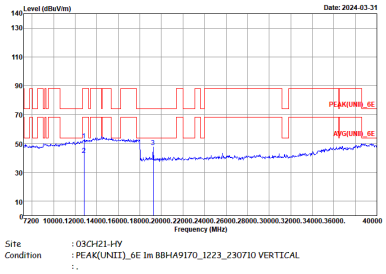
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE160 Partial 996/67 CH15 6025MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

Band 5 - 5925~6425MHz

WIFI 802.11a (Harmonic @ 3m)

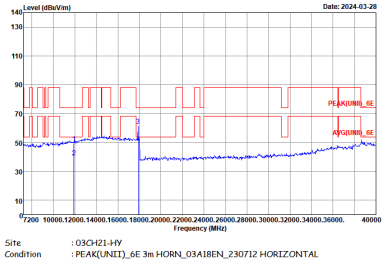
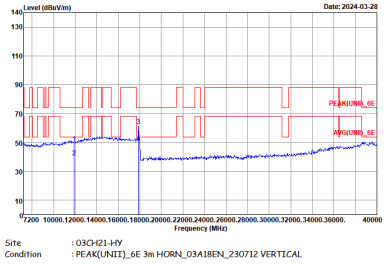
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH01 5955MHz	
0+1	Horizontal	Vertical
Peak Avg.		

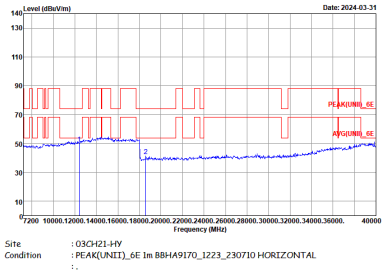
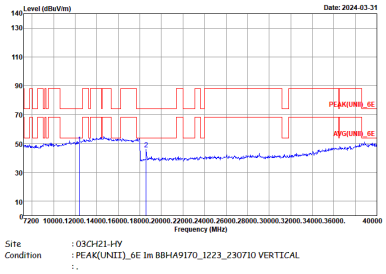
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH49 6195MHz	
0+1	Horizontal	Vertical
Peak Avg.		

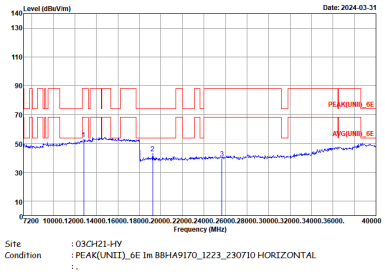
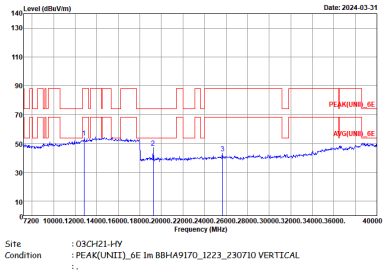
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11a CH93 6415MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

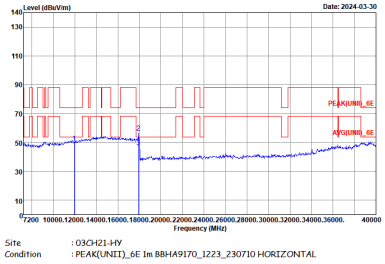
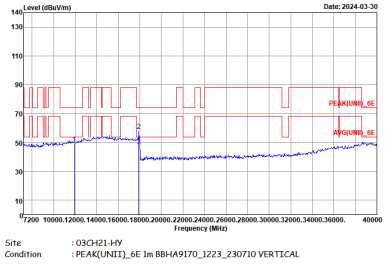
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
0+1	Horizontal	Vertical
Peak Avg.		

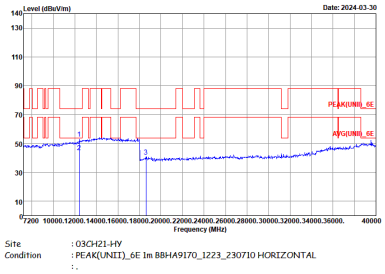
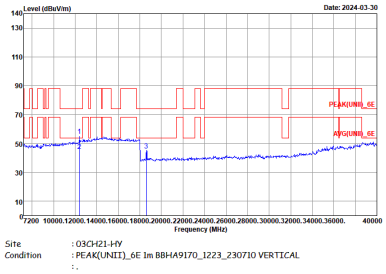
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
0+1	Horizontal	Vertical
Peak Avg.		

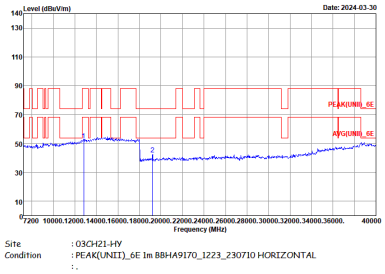
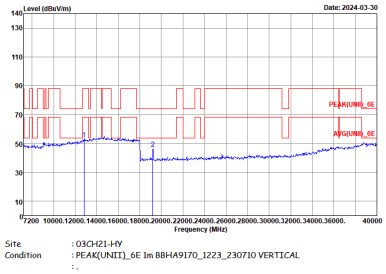
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

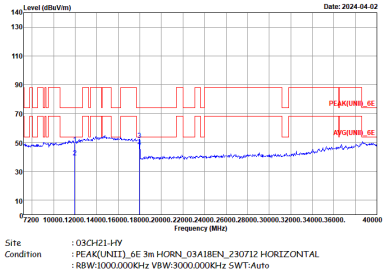
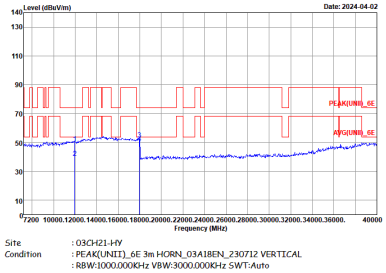
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH03 5965MHz	
0+1	Horizontal	Vertical
Peak Avg.		

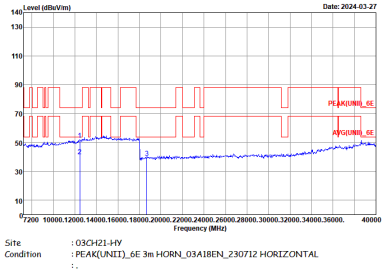
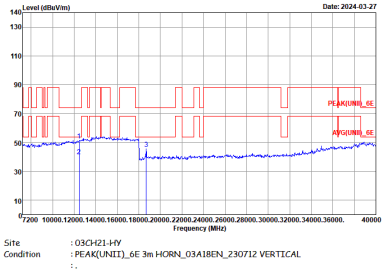
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH51 6205MHz	
0+1	Horizontal	Vertical
Peak Avg.		

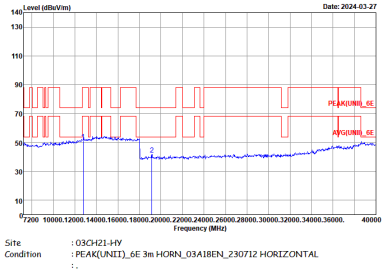
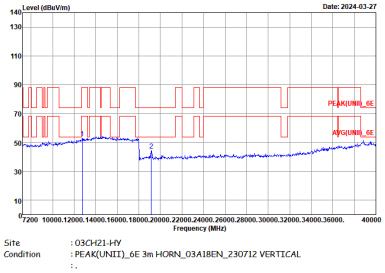
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH91 6405MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

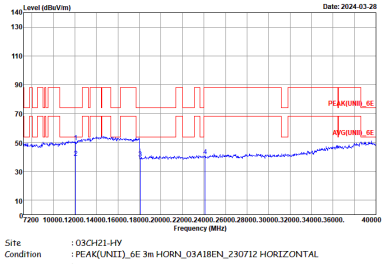
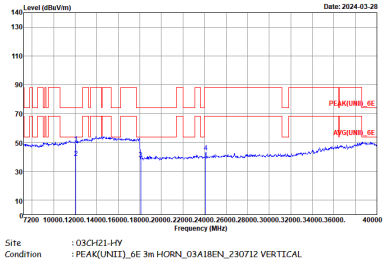
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH07 5985MHz	
0+1	Horizontal	Vertical
Peak Avg.		

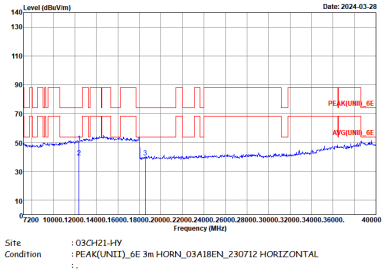
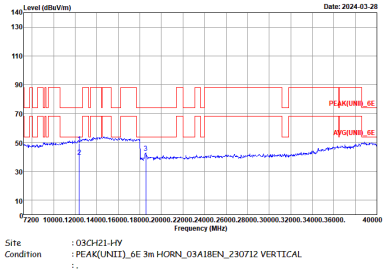
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH55 6225MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 HORIZONTAL : .	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : .

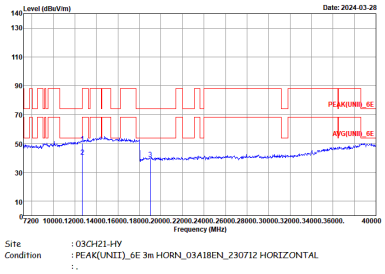
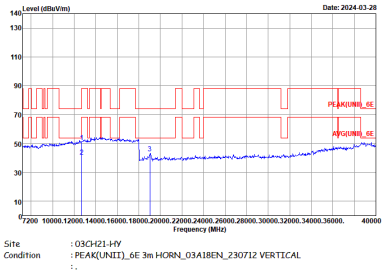
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH87 6385MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 HORIZONTAL : .	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL : .

Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

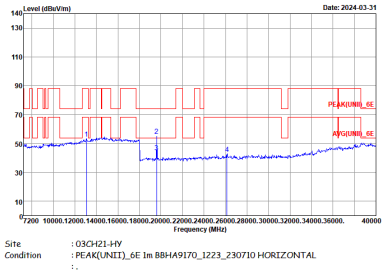
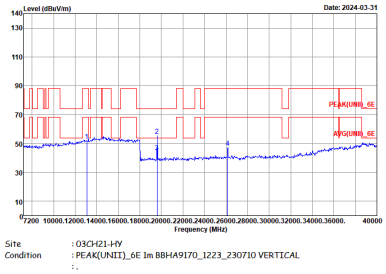
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
0+1	Horizontal	Vertical
Peak Avg.		

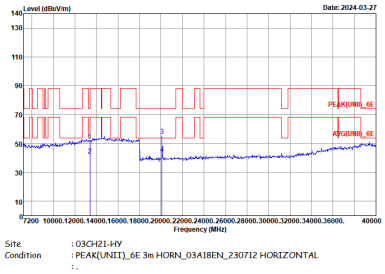
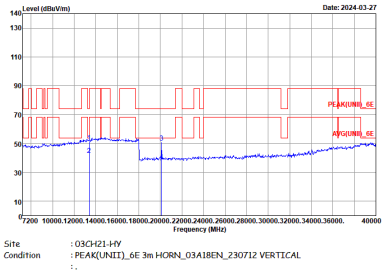
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
0+1	Horizontal	Vertical
Peak Avg.		

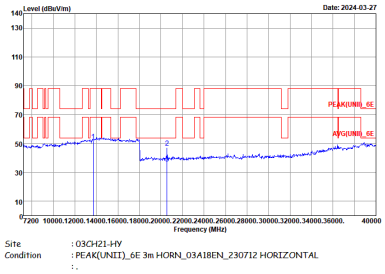
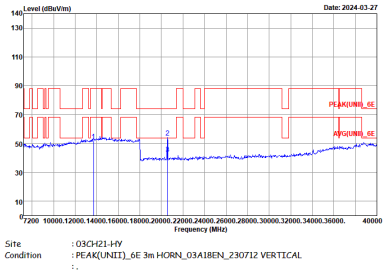
WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
0+1	Horizontal	Vertical
Peak Avg.	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 HORIZONTAL	 Site : 03CH21-HY Condition : PEAK(UNII)_6E 3m HORN_03A18EN_230712 VERTICAL

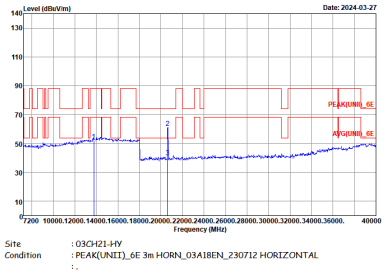
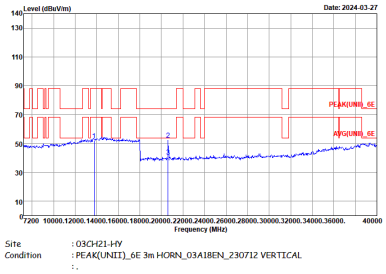
Band 7 - 6525~6875MHz

WIFI 802.11a (Harmonic @ 3m)

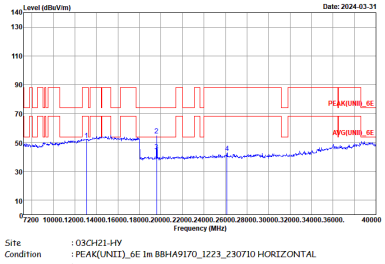
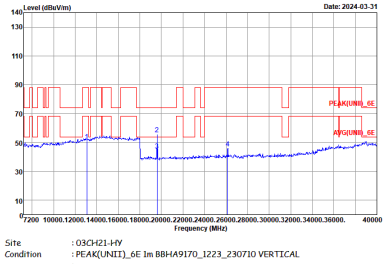
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH117 6535MHz	
0+1	Horizontal	Vertical
Peak Avg.		

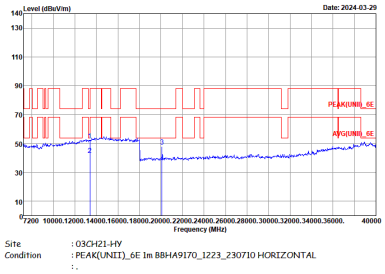
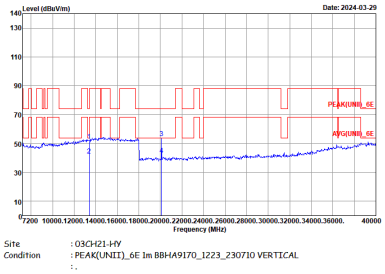
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH149 6695MHz	
0+1	Horizontal	Vertical
Peak Avg.	 	

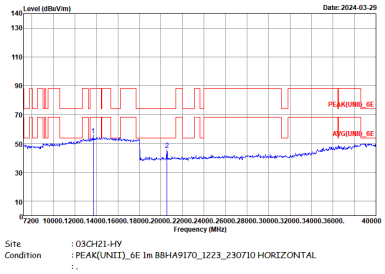
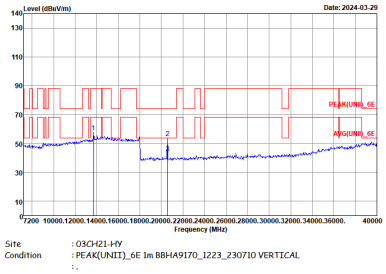
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH181 6855MHz	
0+1	Horizontal	Vertical
Peak Avg.		

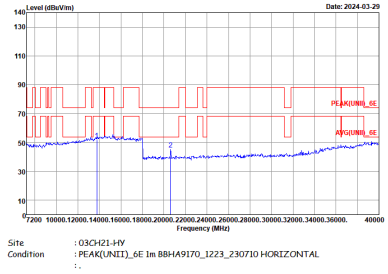
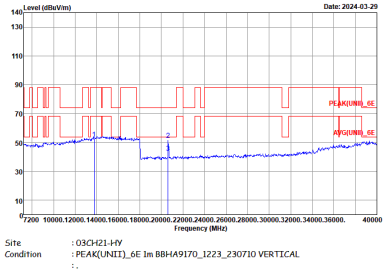
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11a CH185 6875MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH117 6535MHz	
0+1	Horizontal	Vertical
Peak Avg.		

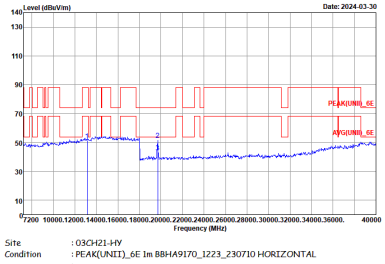
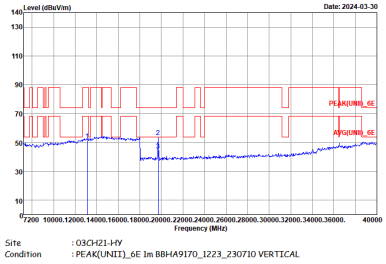
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 6695MHz	
0+1	Horizontal	Vertical
Peak Avg.		

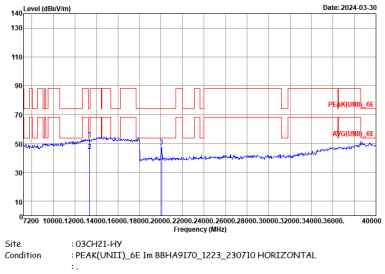
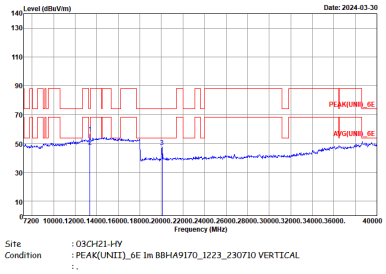
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH181 6855MHz	
0+1	Horizontal	Vertical
Peak Avg.		

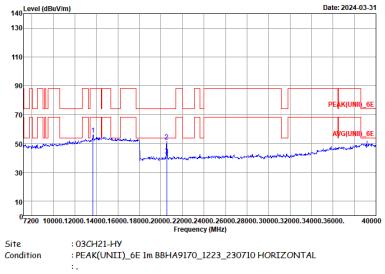
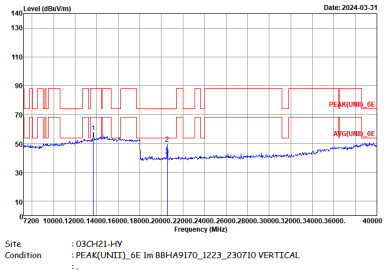
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH185 6875MHz	
0+1	Horizontal	Vertical
Peak Avg.		

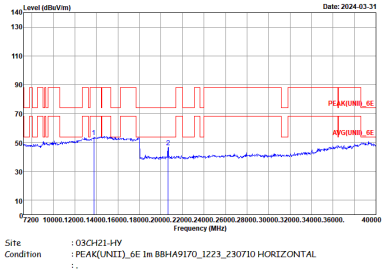
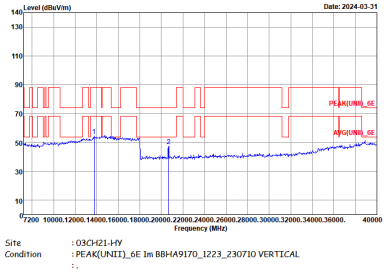
Band 7 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH123 6565MHz	
0+1	Horizontal	Vertical
Peak Avg.		

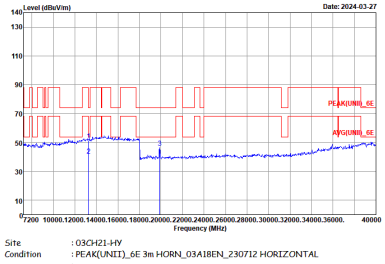
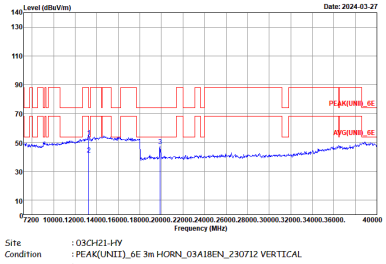
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH147 6685MHz	
0+1	Horizontal	Vertical
Peak Avg.		

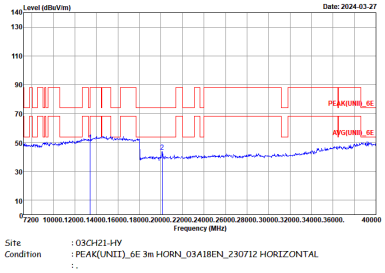
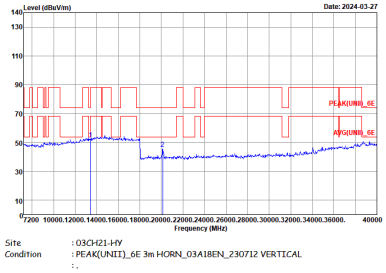
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH179 6845MHz	
0+1	Horizontal	Vertical
Peak Avg.		

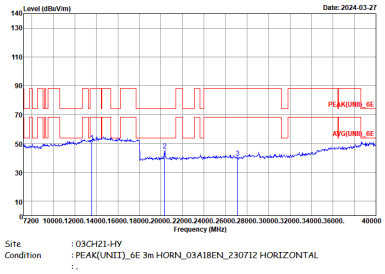
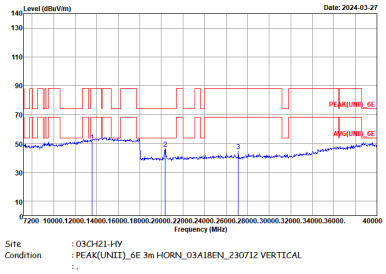
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH187 6885MHz	
0+1	Horizontal	Vertical
Peak Avg.		

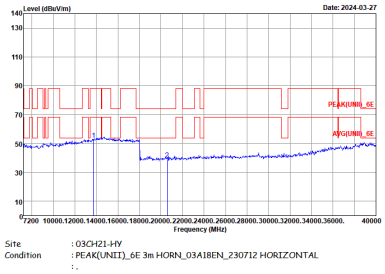
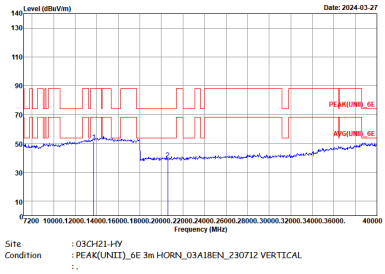
Band 7 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

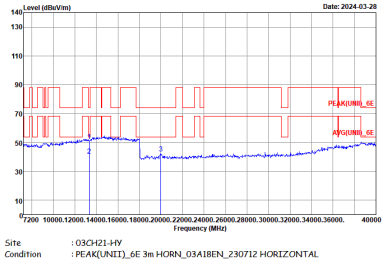
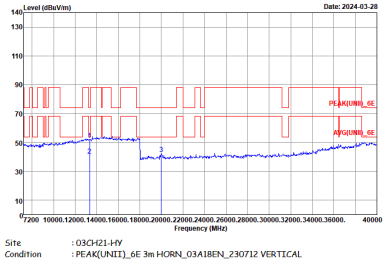
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH135 6625MHz	
0+1	Horizontal	Vertical
Peak Avg.		

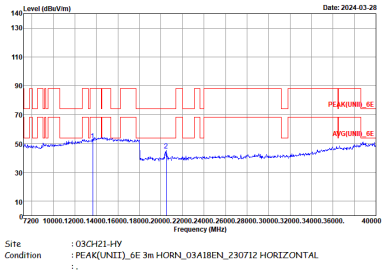
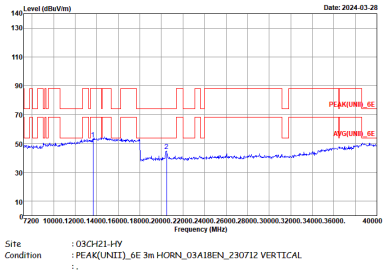
WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH151 6705MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH167 6785MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH183 6865MHz	
0+1	Horizontal	Vertical
Peak Avg.		

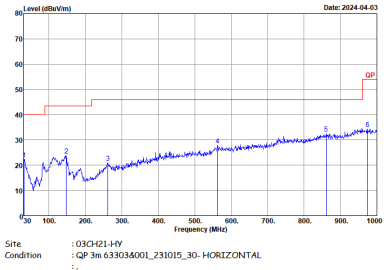
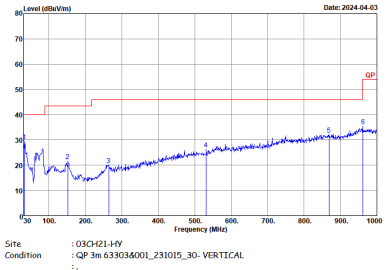
Band 7 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH143 6665MHz	
0+1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 7 6525~6875MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH175 6825MHz	
0+1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

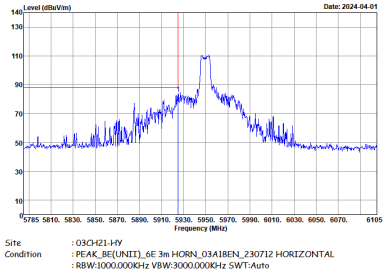
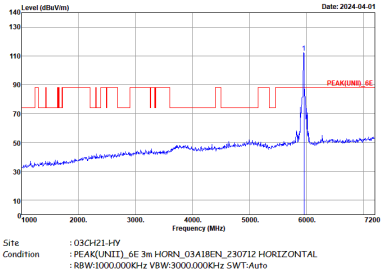
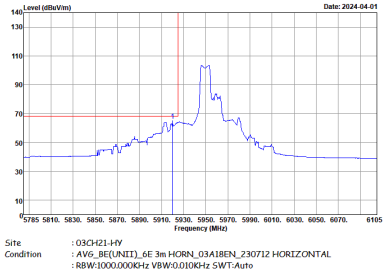
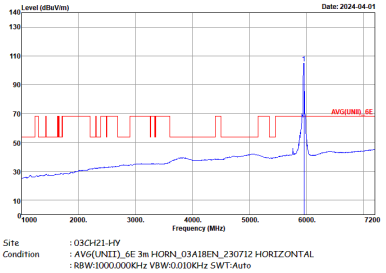
5GHz WIFI 802.11ax HE20 Full (LF)

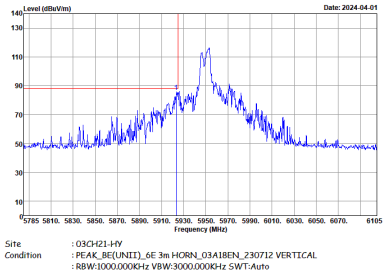
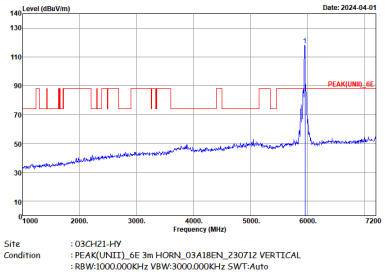
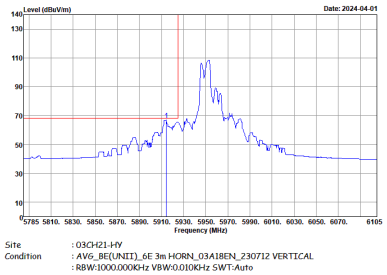
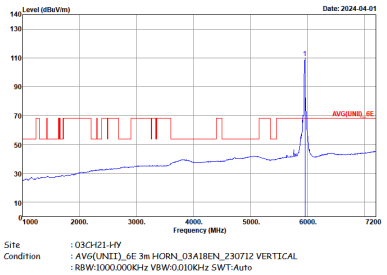
WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
0+1	Horizontal	Vertical
QP / Peak		

<Sample 2>

Band 5 5925~6425MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

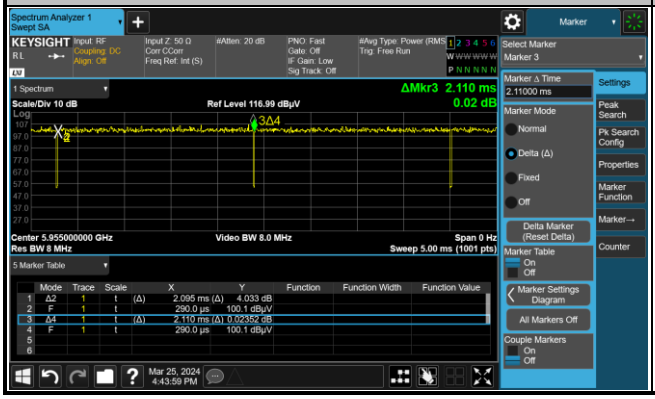
WIFI	Band 5 5925~6425MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 5955MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

Appendix E. Duty Cycle Plots

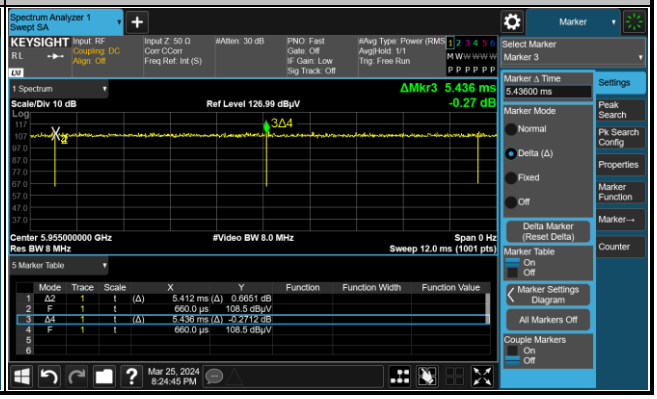
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0+1	802.11a	99.29	-	-	10Hz
0+1	6GHz 802.11ax HE20 Full RU	99.56	-	-	10Hz
0+1	6GHz 802.11ax HE20 26 RU	99.46	-	-	10Hz
0+1	6GHz 802.11ax HE40 Full RU	98.75	-	-	10Hz
0+1	6GHz 802.11ax HE40 242 RU	99.42	-	-	10Hz
0+1	6GHz 802.11ax HE80 Full RU	99.28	-	-	10Hz
0+1	6GHz 802.11ax HE80 484 RU	99.19	-	-	10Hz
0+1	6GHz 802.11ax HE160 Full RU	100.00	-	-	10Hz
0+1	6GHz 802.11ax HE160 996 RU	98.84	-	-	10Hz

MIMO <Ant. 0+1>

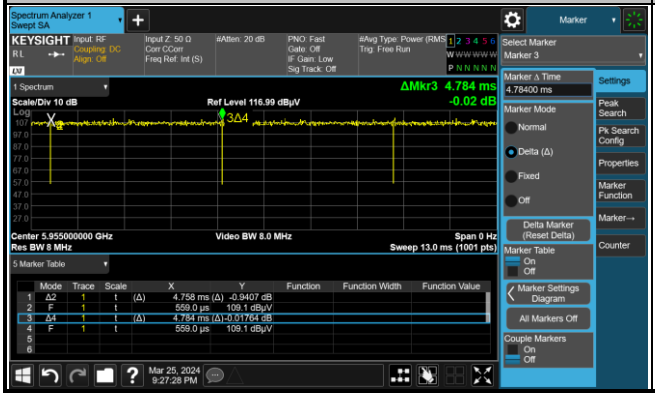
802.11a



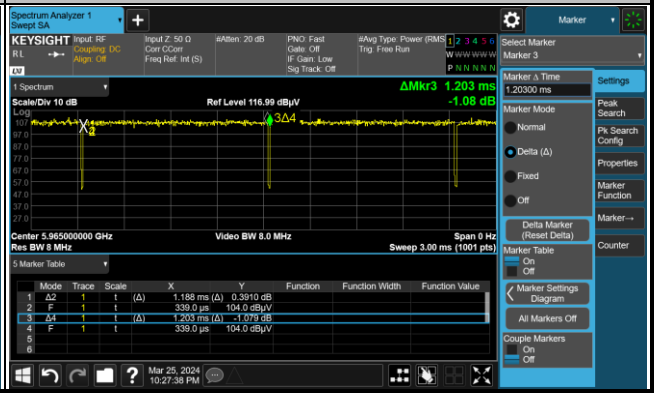
6GHz 802.11ax HE20 Full RU



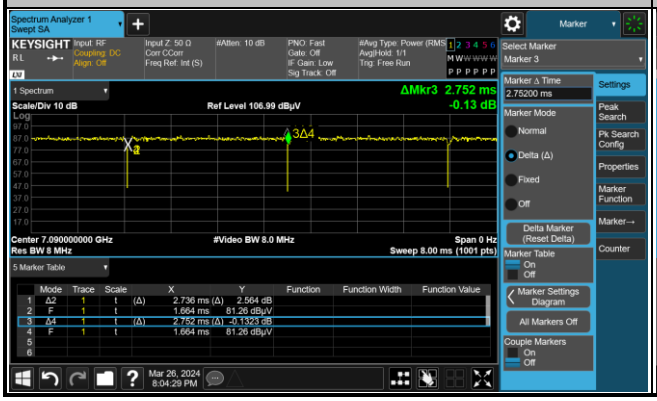
6GHz 802.11ax HE20 26 RU



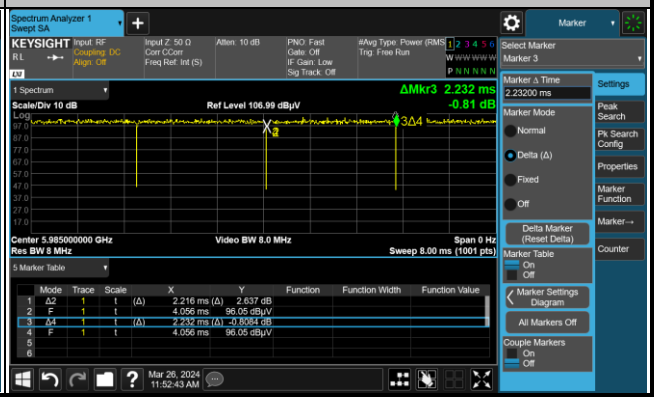
6GHz 802.11ax HE40 Full RU



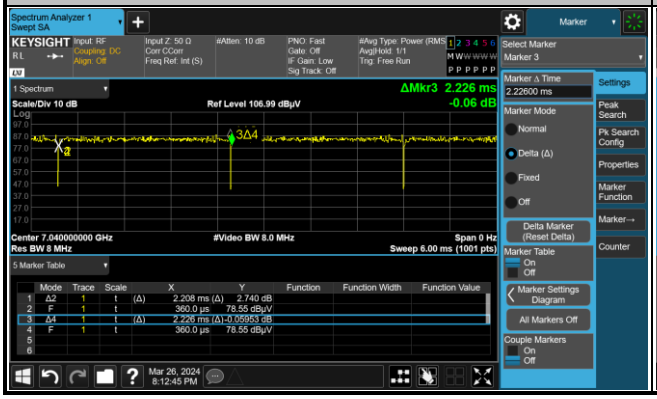
6GHz 802.11ax HE40 242 RU



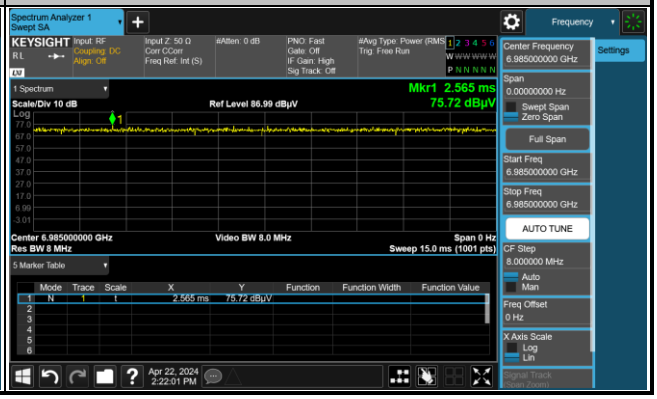
6GHz 802.11ax HE80 Full RU



6GHz 802.11ax HE80 484 RU



6GHz 802.11ax HE160 Full RU



6GHz 802.11ax HE160 996 RU