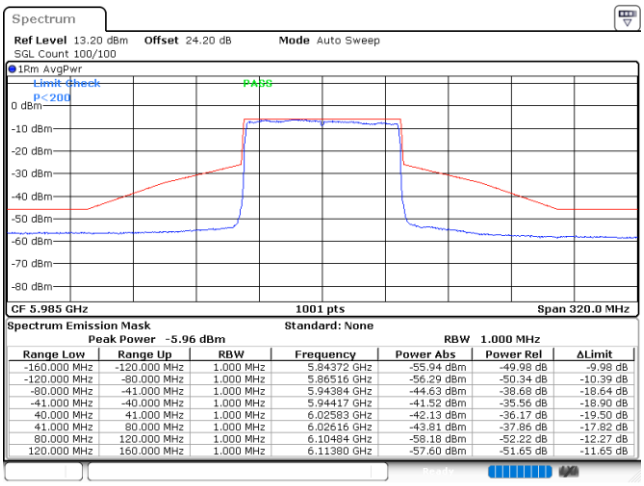
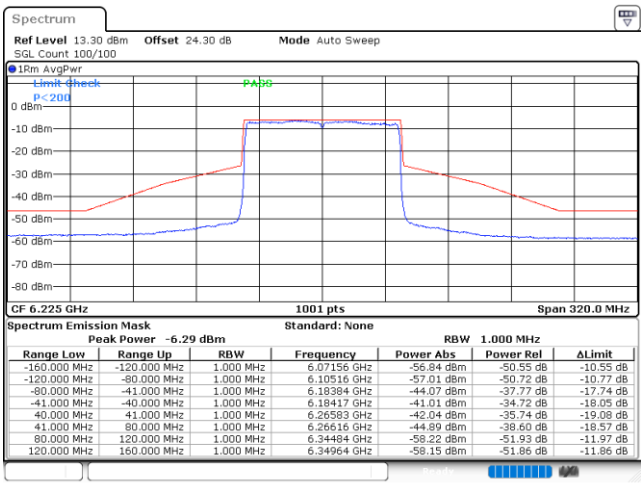
EUT Mode :	802.11ax HE80

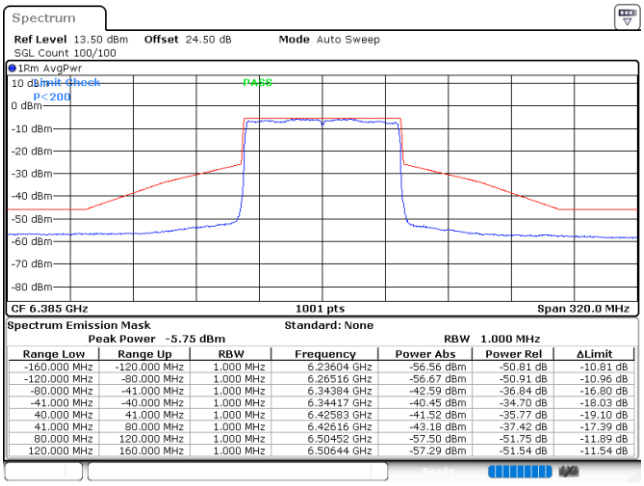
Plot on Channel 5985MHz



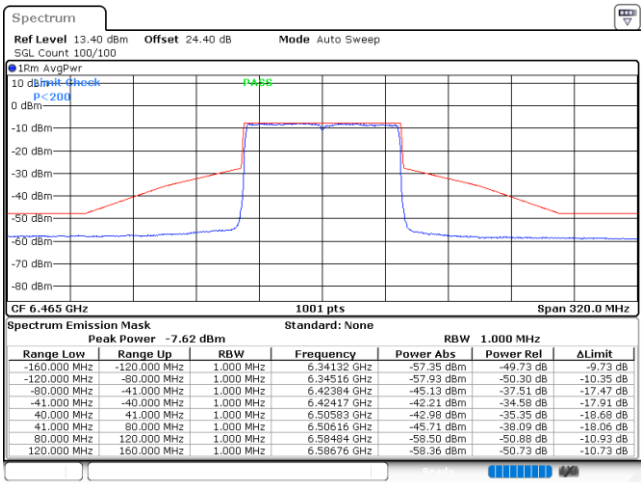
Plot on Channel 6225MHz



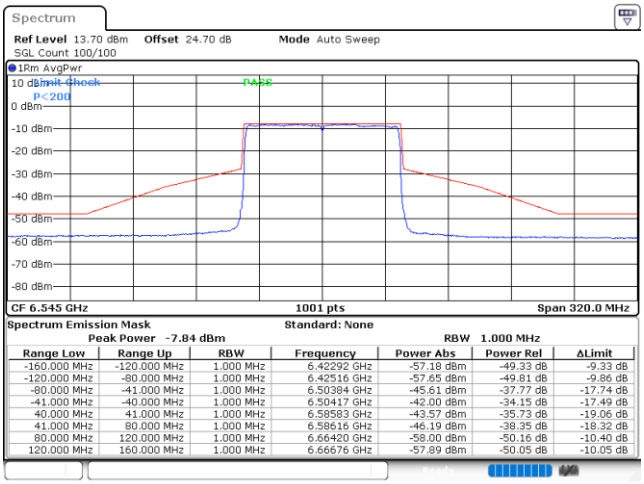
Plot on Channel 6385MHz



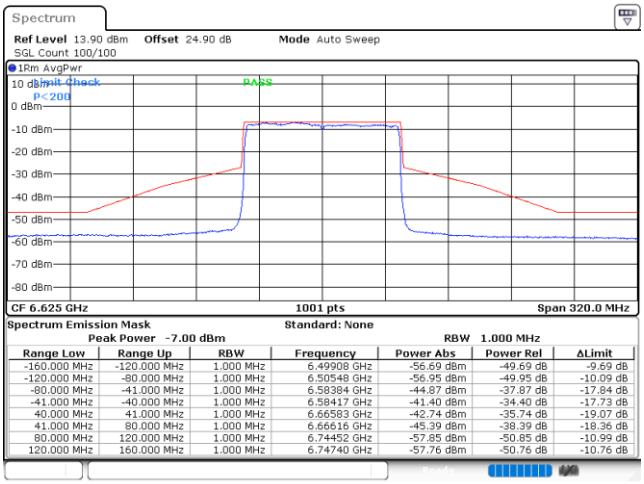
Plot on Channel 6465MHz



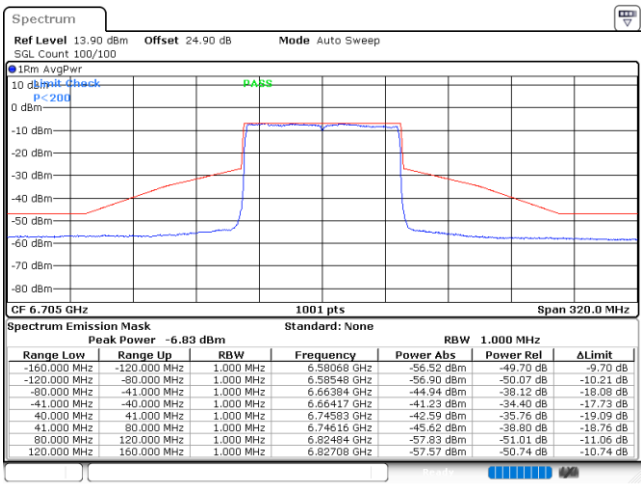
Plot on Channel 6545MHz



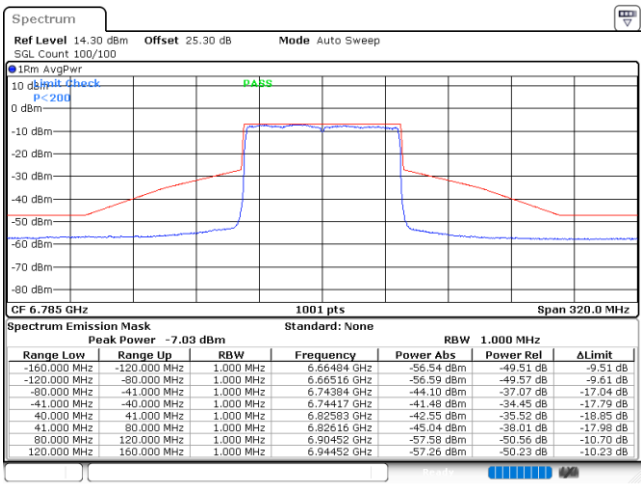
Plot on Channel 6625MHz



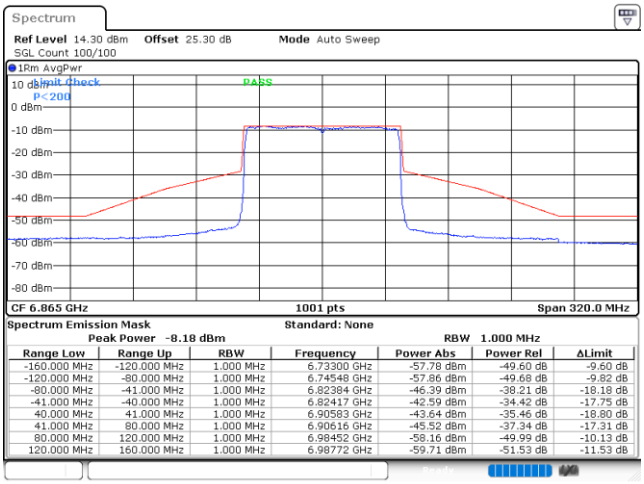
Plot on Channel 6705MHz



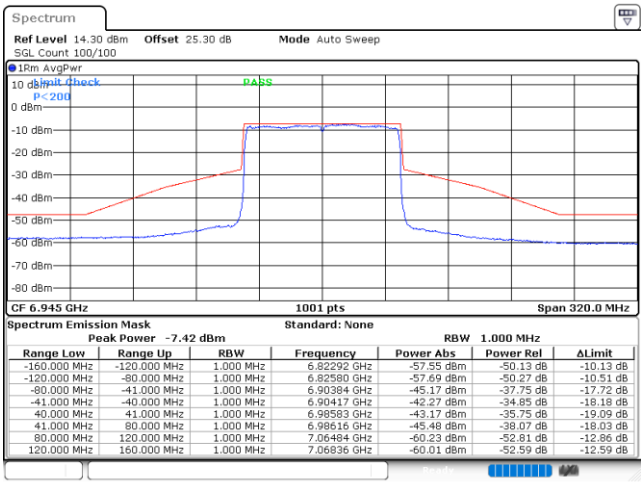
Plot on Channel 6785MHz



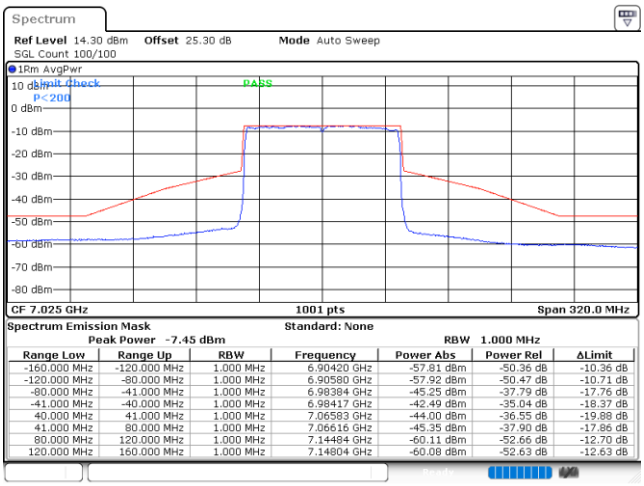
Plot on Channel 6865MHz



Plot on Channel 6945MHz

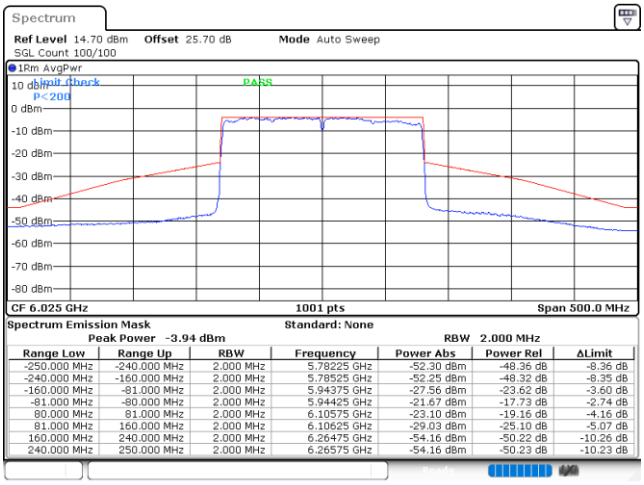


Plot on Channel 7025MHz

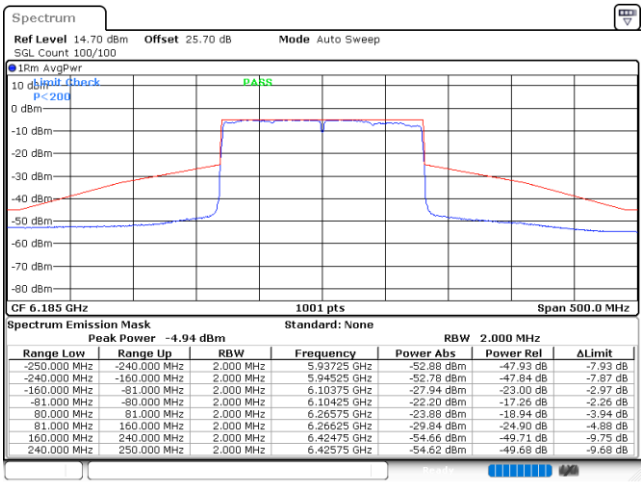


EUT Mode :	802.11ax HE160

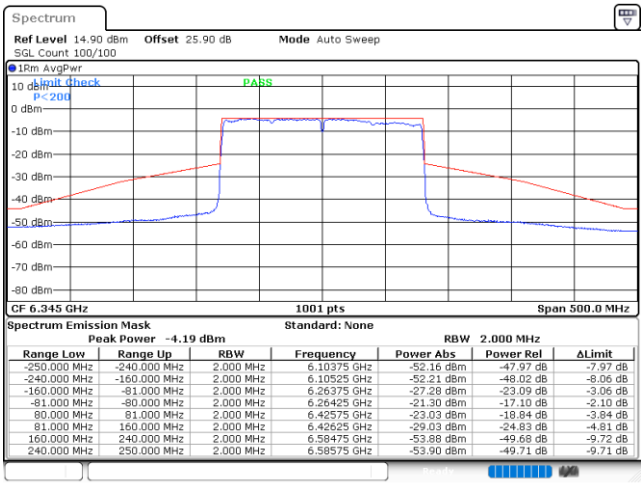
Plot on Channel 6025MHz



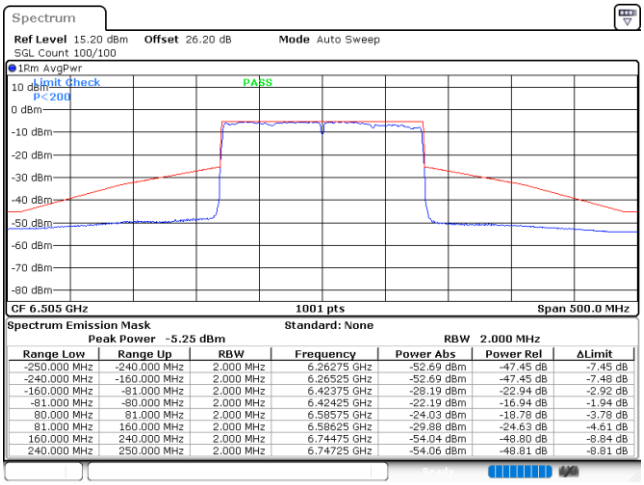
Plot on Channel 6185MHz



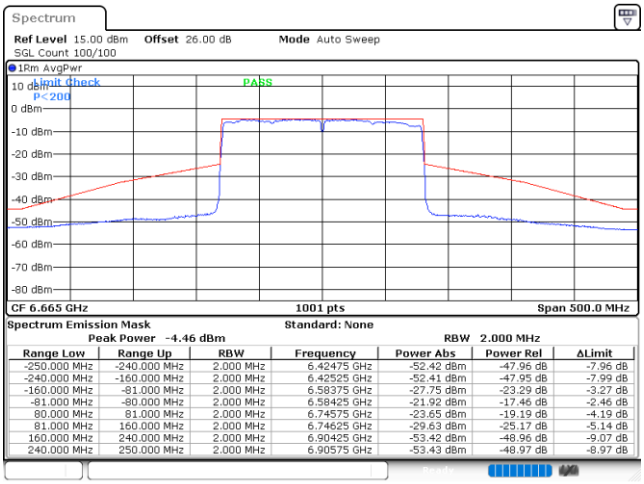
Plot on Channel 6345MHz



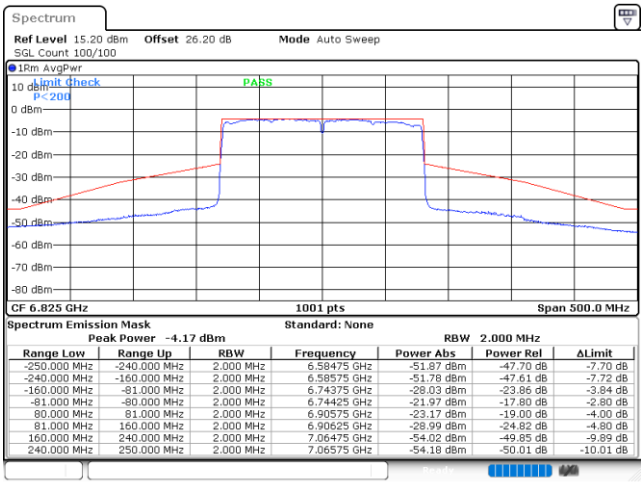
Plot on Channel 6505MHz



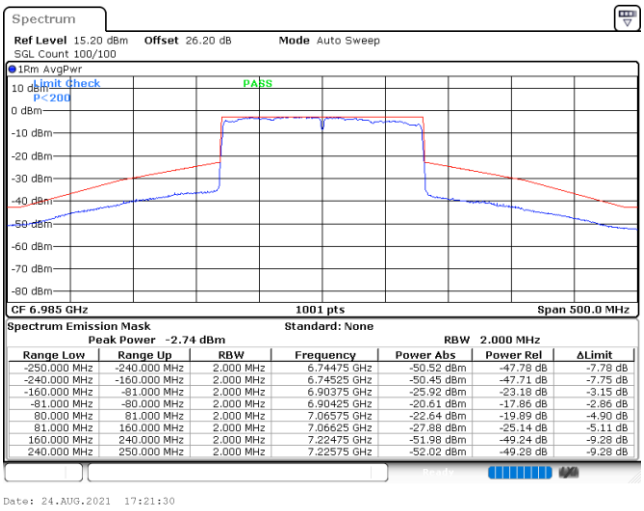
Plot on Channel 6665MHz



Plot on Channel 6825MHz



Plot on Channel 6985MHz



3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

$BWEUT$: Transmission bandwidth of EUT signal

$BWInc$: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

$fc1$: Center frequency of EUT transmission

$fc2$: Center frequency of simulated incumbent signal

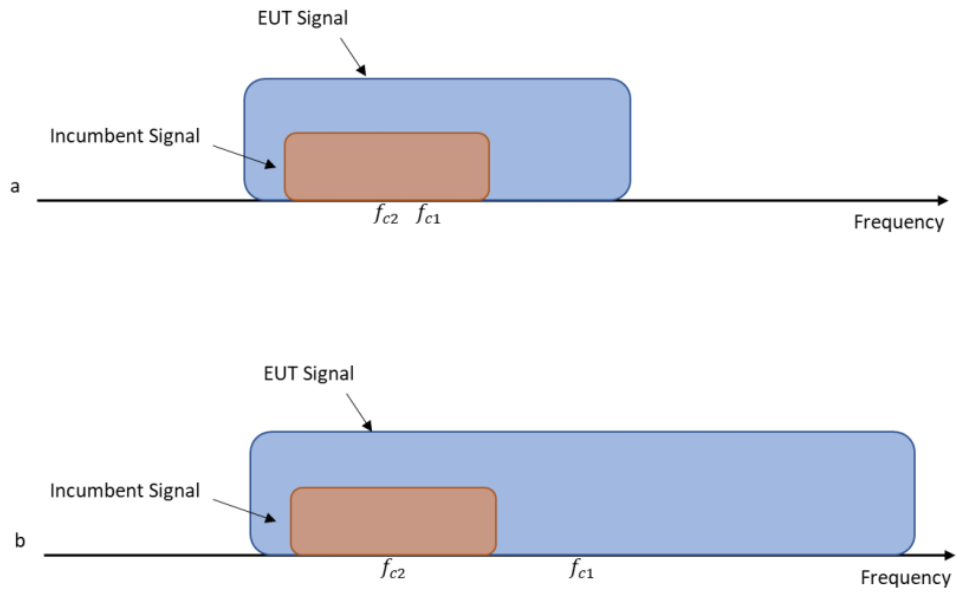


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section I) Contention Based Protocol

Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.5.4 Test Setup

Conducted Setup

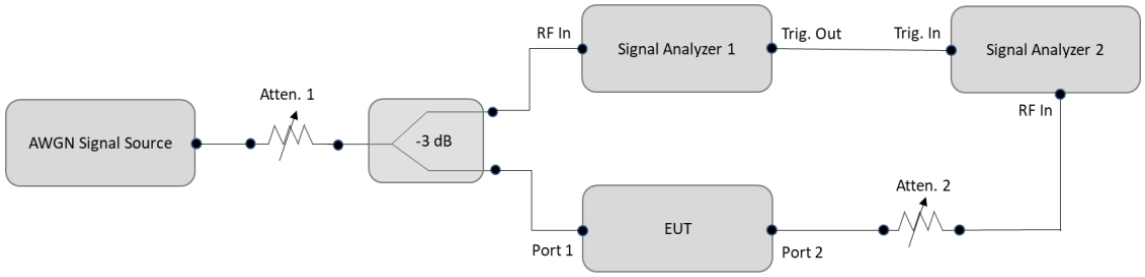


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.5.5 Support Unit used in test configuration and system

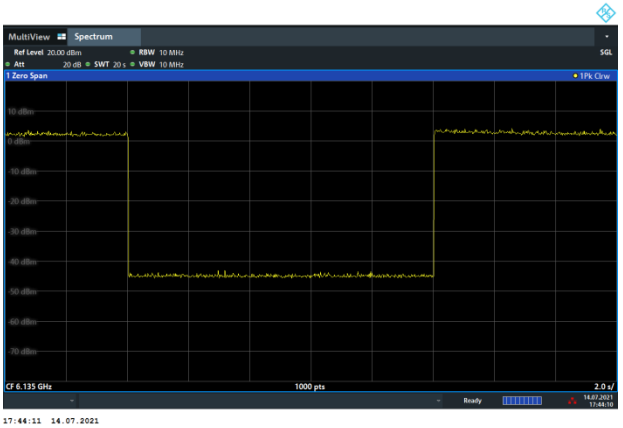
Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN

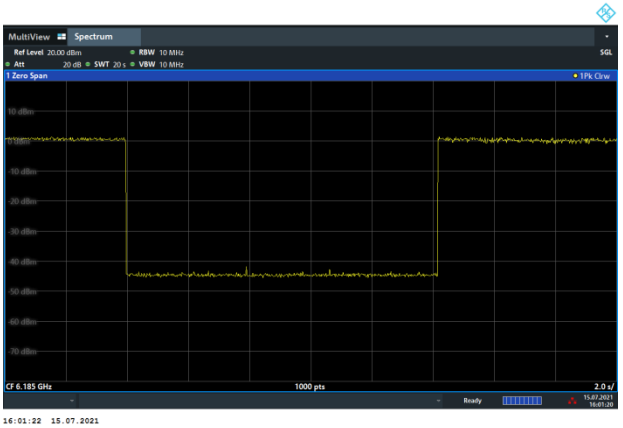
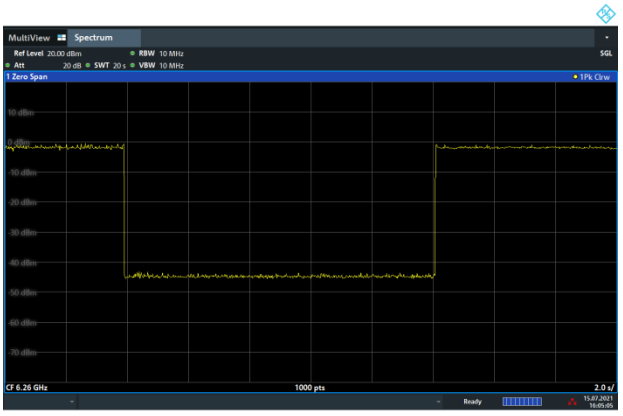
3.5.6 Test Summary of Contention Based Protocol Test

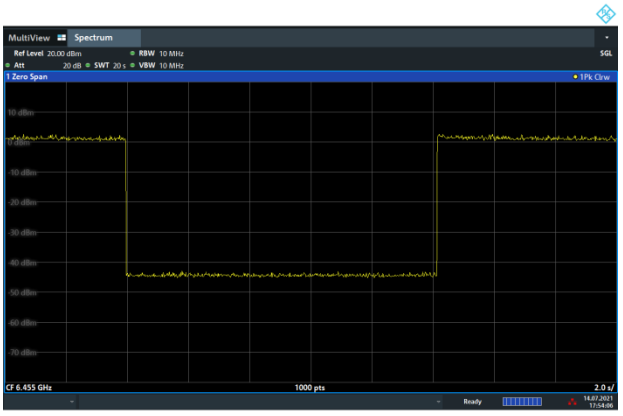
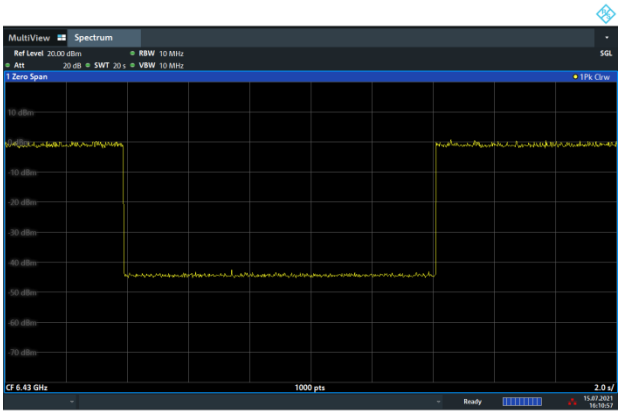
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-67.5	100	-64.4	3.1
	6185	160	6110	-67.62	100	-64.4	3.22
			6185	-67.5	100	-64.4	3.1
			6260	-68.73	100	-64.4	4.33
UNII Band 6	6455	20	6455	-68.07	100	-63.8	4.27
	6505	160	6430	-67.93	100	-63.8	4.13
			6505	-68.29	100	-63.8	4.49
			6580	-67.07	100	-63.8	3.27
UNII Band 7	6695	20	6695	-67.14	100	-66	1.14
	6665	160	6590	-67.92	100	-66	1.92
			6665	-67.03	100	-66	1.03
			6740	-67.47	100	-66	1.47
UNII Band 8	7015	20	7015	-67.07	100	-65.7	1.37
	6985	160	6910	-68.07	100	-65.7	2.37
			6985	-68.14	100	-65.7	2.44
			7060	-66.74	100	-65.7	1.04

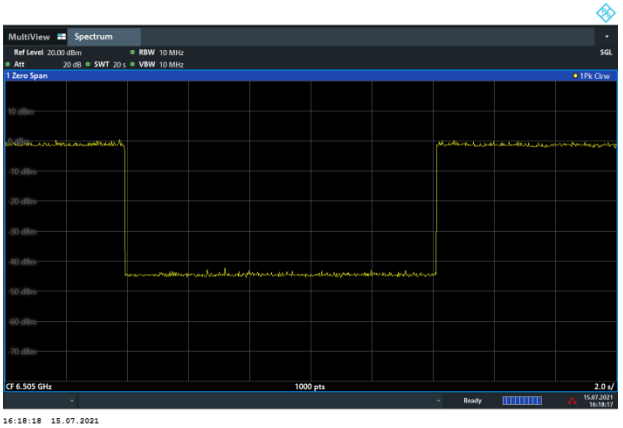
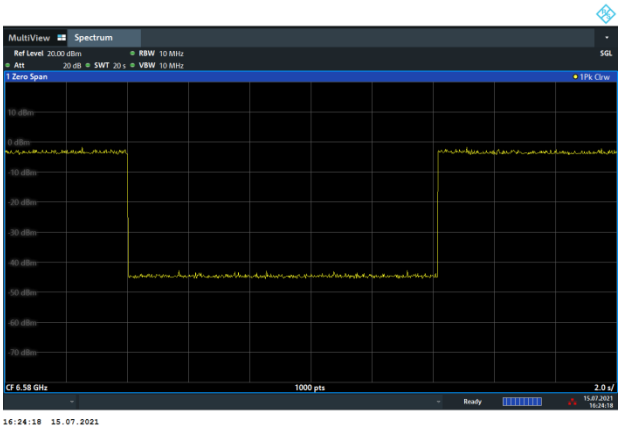
Note: Threshold Level (TL) = -62dBm + minimum antenna gain

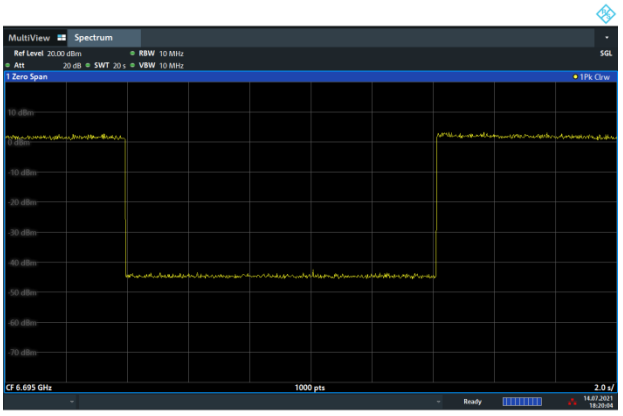
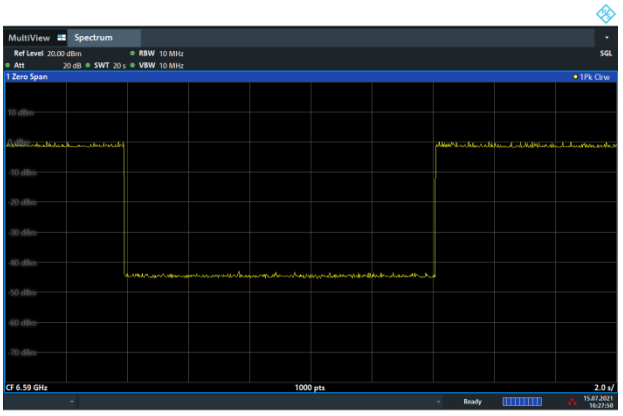
3.5.7 Test Plots of Contention Based Protocol Test

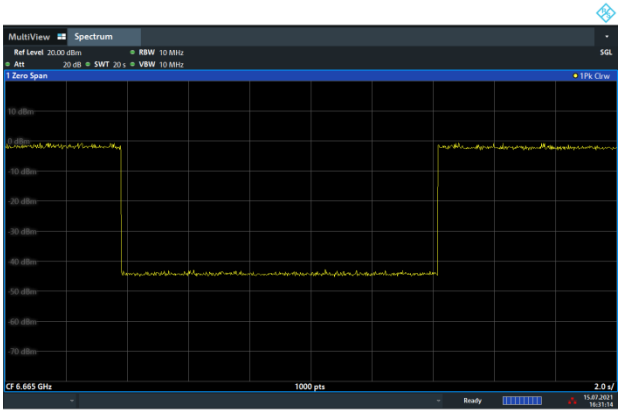
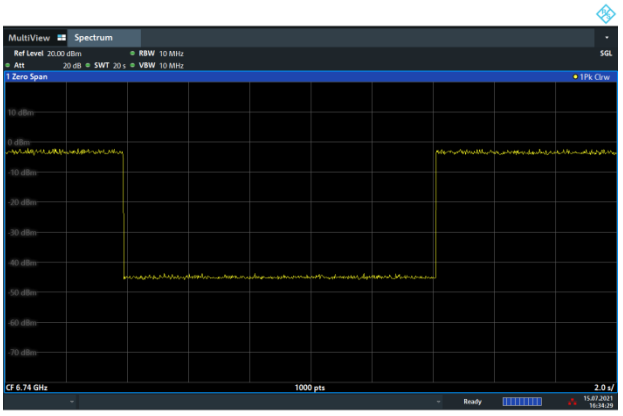
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -67.5dBm/MHz	802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6110MHz (Lower edge) Threshold Level (TL) = --67.62dBm/MHz	802.11ax (HE160) / CH47 (Lower edge) Test result is pass due to no transmission occur.
	

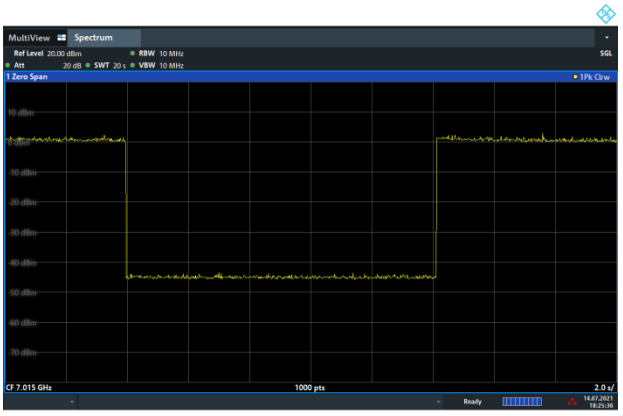
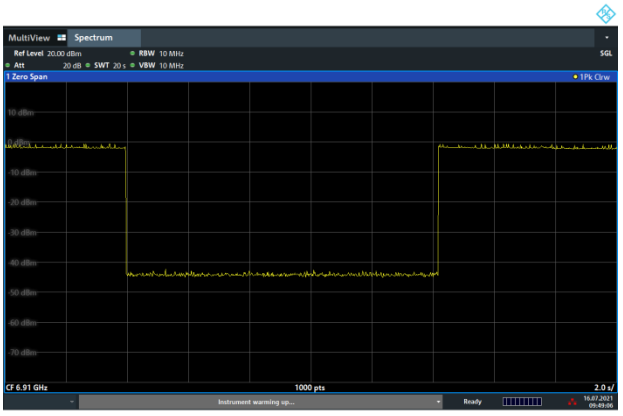
802.11ax (HE160) / 6185MHz (Middle) Threshold Level (TL) = -67.5dBm/MHz	802.11ax (HE160) / CH47 (Middle) Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6260MHz (Upper edge) Threshold Level (TL) = -68.73dBm/MHz	802.11ax (HE160) / CH47 (Upper edge) Test result is pass due to no transmission occur.
	

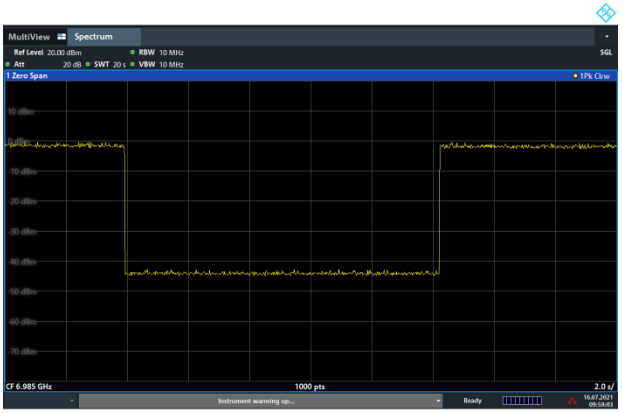
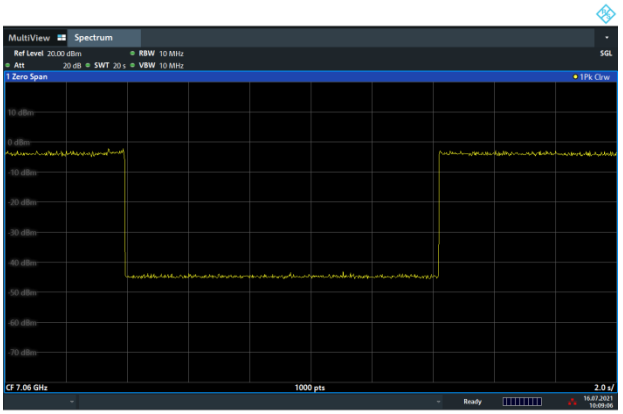
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)	
802.11ax (HE20) / 6455MHz Threshold Level (TL) = -68.07dBm/MHz	802.11ax (HE20) / CH101 Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6430MHz (Lower edge) Threshold Level (TL) = -67.93dBm/MHz	802.11ax (HE160) / CH111 (Lower edge) Test result is pass due to no transmission occur.
	

802.11ax (HE160) / 6505MHz (Middle) Threshold Level (TL) = -68.29dBm/MHz	802.11ax (HE160) / CH111 (Middle) Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6580MHz (Upper edge) Threshold Level (TL) = -67.07dBm/MHz	802.11ax (HE160) / CH111 (Upper edge) Test result is pass due to no transmission occur.
	

Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)	
802.11ax (HE20) / 6695MHz Threshold Level (TL) = -67.14dBm/MHz	802.11ax (HE20) / CH149 Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6590MHz (Lower edge) Threshold Level (TL) = -67.92dBm/MHz	802.11ax (HE160) / CH143 (Lower edge) Test result is pass due to no transmission occur.
	

802.11ax (HE160) / 6665MHz (Middle) Threshold Level (TL) = -67.03dBm/MHz	802.11ax (HE160) / CH143 (Middle) Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6740MHz (Upper edge) Threshold Level (TL) = -67.47dBm/MHz	802.11ax (HE160) / CH143 (Upper edge) Test result is pass due to no transmission occur.
	

Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE20) / 7015MHz Threshold Level (TL) = -67.07dBm/MHz	802.11ax (HE20) / CH213 Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6910MHz (Lower edge) Threshold Level (TL) = -68.07dBm/MHz	802.11ax (HE160) / CH207 (Lower edge) Test result is pass due to no transmission occur.
	

802.11ax (HE160) / 6985MHz (Middle) Threshold Level (TL) = -68.14dBm/MHz	802.11ax (HE160) / CH207 (Middle) Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 7060MHz (Upper edge) Threshold Level (TL) = -66.74dBm/MHz	802.11ax (HE160) / CH207 (Upper edge) Test result is pass due to no transmission occur.
	

3.6 Unwanted Emissions Measurement

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

3.6.1 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)

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 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

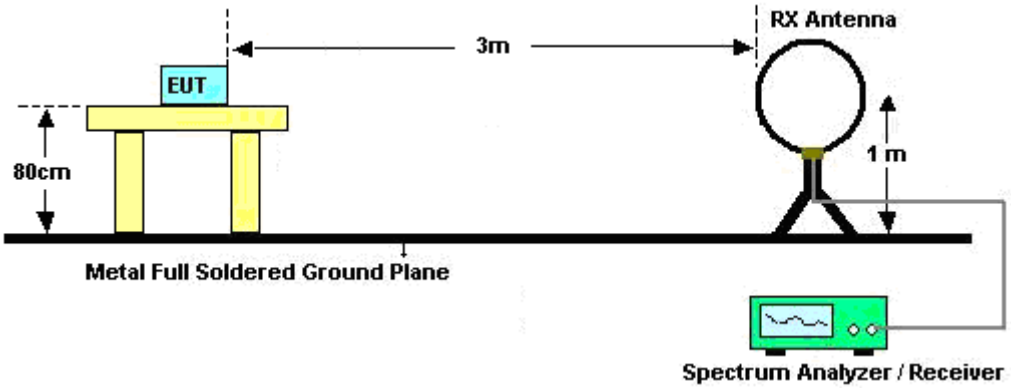
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was 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 was 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 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as "-".

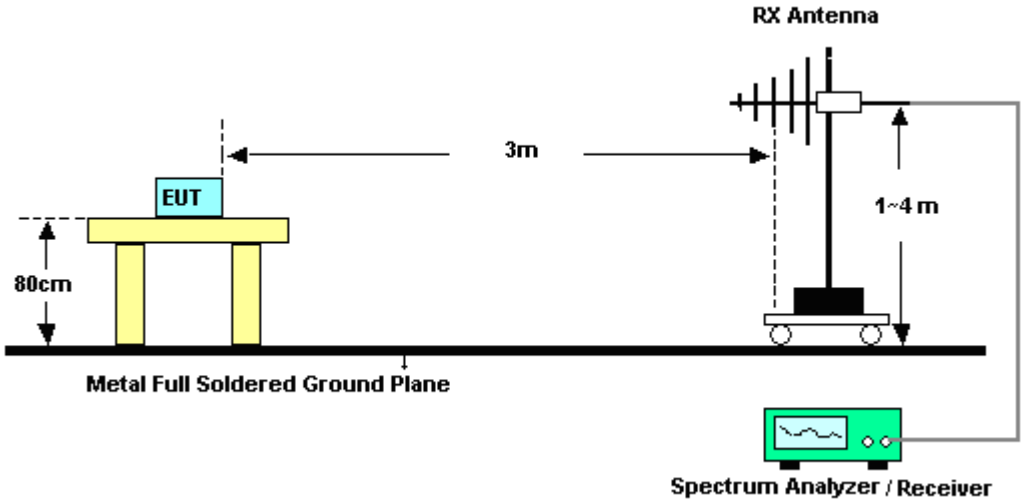
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0degree to 360 degree to find the peak maximum hold reading for scanning all frequencies.
   When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as "-".

3.6.4 Test Setup

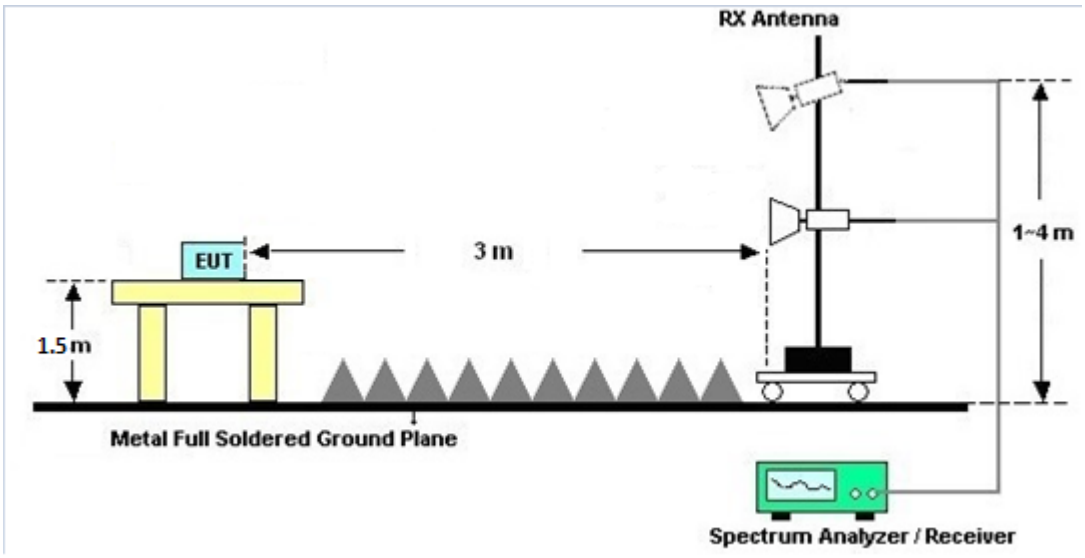
For radiated emissions below 30MHz



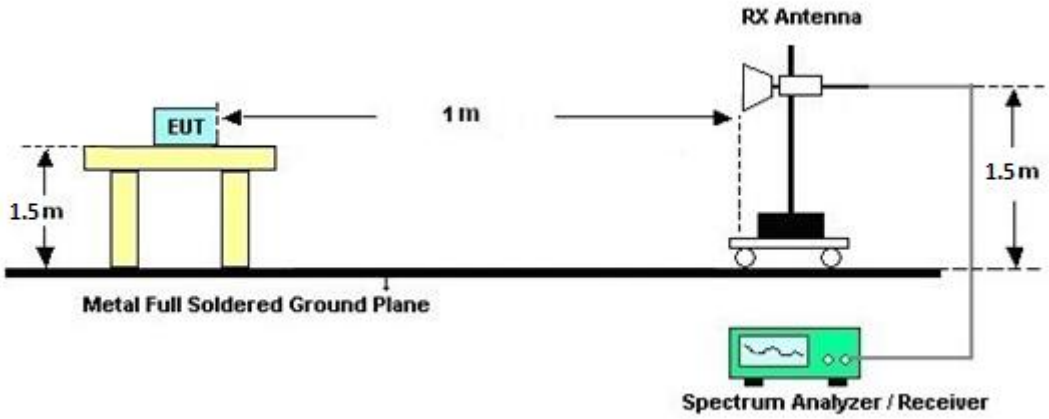
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was 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.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.6.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.7 AC Conducted Emission Measurement

3.7.1 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.

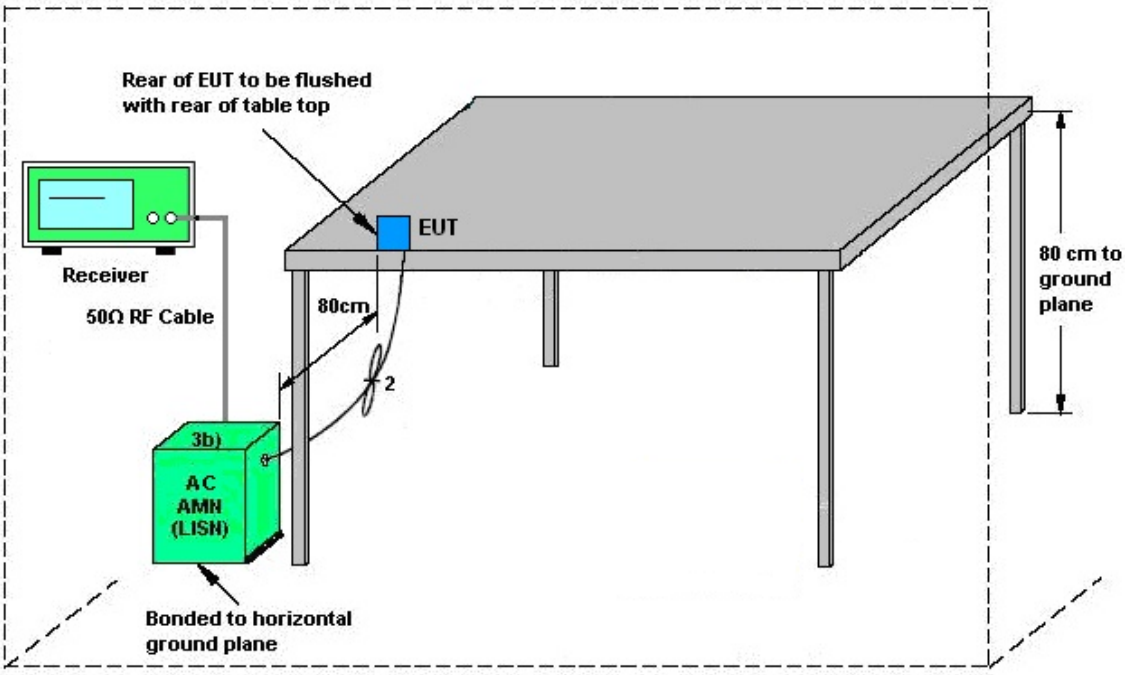
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



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

3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.2 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The directional gain “DG” is calculated as following table.

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

	Ant. 7 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	-2.40	-2.00	-2.00	0.81
6425 MHz ~ 6525 MHz	-1.80	-1.50	-1.50	1.36
6525 MHz ~ 6875 MHz	-0.40	-4.00	-0.40	1.00
6875 MHz ~ 7125 MHz	-2.90	-3.70	-2.90	-0.28

Calculation example:

For the band 5925~6425MHz, the DG for PSD is derived from formula is

10 x log { { [10^ (-2.4 dBi / 20) + 10^ (-2.0 dBi / 20)] ^ 2 } / 2 }

= 0.81 dBi

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	100315	9 kHz~30 MHz	Jan. 04, 2021	Jul. 10, 2021~ Jul. 16, 2021	Jan. 03, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 08, 2021	Jul. 10, 2021~ Jul. 16, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Jul. 10, 2021~ Jul. 16, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Nov. 03, 2020	Jul. 10, 2021~ Jul. 16, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Dec. 02, 2020	Jul. 10, 2021~ Jul. 16, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000055006	1GHz~18GHz	May 06, 2021	Jul. 10, 2021~ Jul. 16, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2020	Jul. 10, 2021~ Jul. 16, 2021	Aug. 20, 2021	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Oct. 27, 2020	Jul. 10, 2021~ Jul. 16, 2021	Oct. 26, 2021	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Jul. 10, 2021~ Jul. 16, 2021	Nov. 01, 2021	Radiation (03CH15-HY
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 07, 2021	Jul. 10, 2021~ Jul. 16, 2021	May 06, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 10, 2021~ Jul. 16, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 10, 2021~ Jul. 16, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Jul. 10, 2021~ Jul. 16, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE,508405/2E	30MHz~18G	Nov. 16, 2020	Jul. 10, 2021~ Jul. 16, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Jul. 10, 2021~ Jul. 16, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Jul. 10, 2021~ Jul. 16, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jul. 10, 2021~ Jul. 16, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-1530-6000-40ST	SN4	1.53GHz Low Pass Filter	Jul. 02, 2021	Jul. 10, 2021~ Jul. 16, 2021	Jul. 01, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	6.75GHz High Pass Filter	Jun. 30, 2021	Jul. 10, 2021~ Jul. 16, 2021	Jun. 29, 2022	Radiation (03CH15-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Jun. 22, 2021~ Aug. 24, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	RPR6W-2 101001	10MHz~8GHz	Feb. 03, 2021	Jun. 22, 2021~ Aug. 24, 2021	Feb. 02, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jun. 22, 2021~ Jul. 11, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	Aug. 24, 2021	Nov. 26, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Jun. 22, 2021~ Aug. 24, 2021	Mar. 16, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 07, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jul. 07, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jul. 07, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jul. 07, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 07, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jul. 07, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jul. 07, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 11, 2021	Jul. 14, 2021~ Jul. 16, 2021	Jan. 10, 2022	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Jul. 14, 2021~ Jul. 16, 2021	Apr. 19, 2022	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1K W7A1	0.5GHz-18GHz	Calibration from System	Jul. 14, 2021~ Jul. 16, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1K W7A2	0.5GHz-18GHz	Calibration from System	Jul. 14, 2021~ Jul. 16, 2021	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW 3A1	0.5-18GHz	Calibration from System	Jul. 14, 2021~ Jul. 16, 2021	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-001 0(#2)	2GHz-8GHz	Calibration from System	Jul. 14, 2021~ Jul. 16, 2021	Calibration from System	CBP (DF02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.9 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	23~24.5	°C
Test Date:	2021/6/22~2021/8/24	Relative Humidity:	47.2~57.2	%

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 7	Ant 3	Ant 7	Ant 3	
HE20	MCS0	2	5955	Full	19.18	19.23	21.90	21.75	
HE20	MCS0	2	6195	Full	19.18	19.18	21.65	21.60	
HE20	MCS0	2	6415	Full	19.28	19.18	21.55	21.70	
HE40	MCS0	2	5965	Full	37.86	37.76	39.78	39.60	
HE40	MCS0	2	6205	Full	37.86	37.66	39.96	39.87	
HE40	MCS0	2	6405	Full	37.86	37.76	39.69	39.78	
HE80	MCS0	2	5985	Full	77.08	76.96	82.24	81.44	
HE80	MCS0	2	6225	Full	77.20	77.08	82.08	81.76	
HE80	MCS0	2	6385	Full	77.08	77.20	81.76	81.76	
HE160	MCS0	2	6025	Full	156.32	156.56	166.08	164.48	
HE160	MCS0	2	6185	Full	156.56	156.32	165.44	165.12	
HE160	MCS0	2	6345	Full	156.32	156.80	165.44	167.36	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	5955	Full	5.00	5.00	8.01	-2.00		6.01	24.00	Pass
HE20	MCS0	2	5955	26/0	-4.20	-4.40	-1.29	-2.00		-3.29	24.00	Pass
HE20	MCS0	2	5955	52/37	-1.70	-1.00	1.67	-2.00		-0.33	24.00	Pass
HE20	MCS0	2	5955	106/53	1.10	1.20	4.16	-2.00		2.16	24.00	Pass
HE20	MCS0	2	6195	Full	5.00	5.80	8.43	-2.00		6.43	24.00	Pass
HE20	MCS0	2	6195	26/4	-3.20	-3.00	-0.09	-2.00		-2.09	24.00	Pass
HE20	MCS0	2	6195	52/39	-1.10	-0.50	2.22	-2.00		0.22	24.00	Pass
HE20	MCS0	2	6195	106/53	1.80	2.20	5.01	-2.00		3.01	24.00	Pass
HE20	MCS0	2	6415	Full	4.80	5.90	8.40	-2.00		6.40	24.00	Pass
HE20	MCS0	2	6415	26/8	-4.40	-3.50	-0.92	-2.00		-2.92	24.00	Pass
HE20	MCS0	2	6415	52/40	-2.00	-0.40	1.88	-2.00		-0.12	24.00	Pass
HE20	MCS0	2	6415	106/54	1.10	2.70	4.98	-2.00		2.98	24.00	Pass
HE40	MCS0	2	5965	Full	8.50	9.00	11.77	-2.00		9.77	24.00	Pass
HE40	MCS0	2	6205	Full	6.00	7.20	9.65	-2.00		7.65	24.00	Pass
HE40	MCS0	2	6405	Full	7.80	9.20	11.57	-2.00		9.57	24.00	Pass
HE80	MCS0	2	5985	Full	11.40	11.90	14.67	-2.00		12.67	24.00	Pass
HE80	MCS0	2	6225	Full	10.70	11.70	14.24	-2.00		12.24	24.00	Pass
HE80	MCS0	2	6385	Full	10.70	12.10	14.47	-2.00		12.47	24.00	Pass
HE160	MCS0	2	6025	Full	14.20	14.60	17.41	-2.00		15.41	24.00	Pass
HE160	MCS0	2	6185	Full	13.70	13.90	16.81	-2.00		14.81	24.00	Pass
HE160	MCS0	2	6345	Full	13.40	14.70	17.11	-2.00		15.11	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	5955	Full			-2.27	0.81		-1.46	-1.00	Pass
HE20	MCS0	2	5955	26/0			-2.38	0.81		-1.56	-1.00	Pass
HE20	MCS0	2	5955	52/37			-2.32	0.81		-1.51	-1.00	Pass
HE20	MCS0	2	5955	106/53			-2.80	0.81		-1.99	-1.00	Pass
HE20	MCS0	2	6195	Full			-1.82	0.81		-1.01	-1.00	Pass
HE20	MCS0	2	6195	26/4			-2.17	0.81		-1.36	-1.00	Pass
HE20	MCS0	2	6195	52/39			-2.11	0.81		-1.30	-1.00	Pass
HE20	MCS0	2	6195	106/53			-2.38	0.81		-1.57	-1.00	Pass
HE20	MCS0	2	6415	Full			-1.99	0.81		-1.17	-1.00	Pass
HE20	MCS0	2	6415	26/8			-2.06	0.81		-1.24	-1.00	Pass
HE20	MCS0	2	6415	52/40			-2.11	0.81		-1.30	-1.00	Pass
HE20	MCS0	2	6415	106/54			-2.08	0.81		-1.27	-1.00	Pass
HE40	MCS0	2	5965	Full			-1.83	0.81		-1.02	-1.00	Pass
HE40	MCS0	2	6205	Full			-3.14	0.81		-2.32	-1.00	Pass
HE40	MCS0	2	6405	Full			-1.86	0.81		-1.04	-1.00	Pass
HE80	MCS0	2	5985	Full			-1.99	0.81		-1.18	-1.00	Pass
HE80	MCS0	2	6225	Full			-2.04	0.81		-1.23	-1.00	Pass
HE80	MCS0	2	6385	Full			-1.97	0.81		-1.15	-1.00	Pass
HE160	MCS0	2	6025	Full			-1.98	0.81		-1.16	-1.00	Pass
HE160	MCS0	2	6185	Full			-2.32	0.81		-1.50	-1.00	Pass
HE160	MCS0	2	6345	Full			-1.95	0.81		-1.14	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 7	Ant 3	Ant 7	Ant 3	
HE20	MCS0	2	6435	Full	19.23	19.18	22.00	21.75	
HE20	MCS0	2	6475	Full	19.18	19.23	21.90	21.80	
HE20	MCS0	2	6515	Full	19.23	19.28	22.10	21.65	
HE40	MCS0	2	6445	Full	37.86	37.76	39.87	39.60	
HE40	MCS0	2	6485	Full	37.86	37.86	40.14	40.05	
HE40	MCS0	2	6525	Full	37.86	37.86	40.32	39.87	Straddle CH
HE80	MCS0	2	6465	Full	77.20	77.20	82.08	81.60	
HE80	MCS0	2	6545	Full	77.08	77.32	82.08	81.60	Straddle CH
HE160	MCS0	2	6505	Full	156.56	156.80	166.08	165.12	Straddle CH

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6435	Full	4.30	5.10	7.73	-1.50		6.23	24.00	Pass
HE20	MCS0	2	6435	26/0	-5.00	-5.10	-2.04	-1.50		-3.54	24.00	Pass
HE20	MCS0	2	6435	52/37	-2.70	-2.40	0.46	-1.50		-1.04	24.00	Pass
HE20	MCS0	2	6435	106/53	0.40	0.70	3.56	-1.50		2.06	24.00	Pass
HE20	MCS0	2	6475	Full	4.70	4.70	7.71	-1.50		6.21	24.00	Pass
HE20	MCS0	2	6475	26/4	-3.90	-4.20	-1.04	-1.50		-2.54	24.00	Pass
HE20	MCS0	2	6475	52/39	-1.90	-1.80	1.16	-1.50		-0.34	24.00	Pass
HE20	MCS0	2	6475	106/54	1.20	1.20	4.21	-1.50		2.71	24.00	Pass
HE20	MCS0	2	6515	Full	3.90	4.00	6.96	-1.50		5.46	24.00	Pass
HE20	MCS0	2	6515	26/8	-5.30	-5.60	-2.44	-1.50		-3.94	24.00	Pass
HE20	MCS0	2	6515	52/40	-2.80	-2.20	0.52	-1.50		-0.98	24.00	Pass
HE20	MCS0	2	6515	106/54	0.10	0.50	3.31	-1.50		1.81	24.00	Pass
HE40	MCS0	2	6445	Full	6.80	7.20	10.01	-1.50		8.51	24.00	Pass
HE40	MCS0	2	6485	Full	6.40	6.90	9.67	-1.50		8.17	24.00	Pass
HE80	MCS0	2	6465	Full	10.30	10.90	13.62	-1.50		12.12	24.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE40	MCS0	2	6525	Full	6.40	6.80	9.61	-1.50		8.11	24.00	Pass
HE80	MCS0	2	6545	Full	10.60	10.70	13.66	-1.50		12.16	24.00	Pass
HE160	MCS0	2	6505	Full	12.60	13.30	15.97	-1.50		14.47	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6435	Full			-3.04	1.36		-1.68	-1.00	Pass
HE20	MCS0	2	6435	26/0			-3.35	1.36		-1.99	-1.00	Pass
HE20	MCS0	2	6435	52/37			-3.57	1.36		-2.20	-1.00	Pass
HE20	MCS0	2	6435	106/53			-3.52	1.36		-2.16	-1.00	Pass
HE20	MCS0	2	6475	Full			-3.04	1.36		-1.68	-1.00	Pass
HE20	MCS0	2	6475	26/4			-3.27	1.36		-1.91	-1.00	Pass
HE20	MCS0	2	6475	52/39			-3.06	1.36		-1.70	-1.00	Pass
HE20	MCS0	2	6475	106/54			-3.06	1.36		-1.70	-1.00	Pass
HE20	MCS0	2	6515	Full			-3.46	1.36		-2.10	-1.00	Pass
HE20	MCS0	2	6515	26/8			-3.82	1.36		-2.46	-1.00	Pass
HE20	MCS0	2	6515	52/40			-3.60	1.36		-2.24	-1.00	Pass
HE20	MCS0	2	6515	106/54			-3.87	1.36		-2.51	-1.00	Pass
HE40	MCS0	2	6445	Full			-3.04	1.36		-1.68	-1.00	Pass
HE40	MCS0	2	6485	Full			-3.59	1.36		-2.23	-1.00	Pass
HE80	MCS0	2	6465	Full			-3.15	1.36		-1.79	-1.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE40	MCS0	2	6525	Full			-3.93	1.36		-2.57	-1.00	Pass
HE80	MCS0	2	6545	Full			-3.02	1.36		-1.65	-1.00	Pass
HE160	MCS0	2	6505	Full			-3.14	1.36		-1.78	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 7	Ant 3	Ant 7	Ant 3	
HE20	MCS0	2	6535	Full	19.23	19.28	21.65	21.75	
HE20	MCS0	2	6695	Full	19.18	19.18	21.75	21.65	
HE20	MCS0	2	6855	Full	19.23	19.13	21.75	21.85	
HE20	MCS0	2	6875	Full	19.18	19.13	21.60	21.60	Straddle CH
HE40	MCS0	2	6565	Full	37.86	37.76	39.78	39.78	
HE40	MCS0	2	6685	Full	37.86	37.86	39.78	39.60	
HE40	MCS0	2	6845	Full	37.76	37.76	39.87	39.78	
HE40	MCS0	2	6885	Full	37.76	37.86	39.96	39.69	Straddle CH
HE80	MCS0	2	6625	Full	77.08	77.20	82.08	81.76	
HE80	MCS0	2	6705	Full	77.20	77.08	82.08	81.44	
HE80	MCS0	2	6785	Full	77.20	77.08	81.92	81.60	
HE80	MCS0	2	6865	Full	77.32	77.20	82.08	81.60	Straddle CH
HE160	MCS0	2	6665	Full	156.32	156.80	165.12	165.76	
HE160	MCS0	2	6825	Full	156.80	156.56	166.08	173.12	Straddle CH

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6535	Full	5.70	5.50	8.61	-0.40		8.21	24.00	Pass
HE20	MCS0	2	6535	26/0	-3.50	-3.70	-0.59	-0.40		-0.99	24.00	Pass
HE20	MCS0	2	6535	52/37	-0.70	-1.10	2.11	-0.40		1.71	24.00	Pass
HE20	MCS0	2	6535	106/53	2.20	1.40	4.83	-0.40		4.43	24.00	Pass
HE20	MCS0	2	6695	Full	5.40	5.40	8.41	-0.40		8.01	24.00	Pass
HE20	MCS0	2	6695	26/4	-3.20	-3.90	-0.53	-0.40		-0.93	24.00	Pass
HE20	MCS0	2	6695	52/38	-0.60	-1.20	2.12	-0.40		1.72	24.00	Pass
HE20	MCS0	2	6695	106/53	2.00	1.30	4.67	-0.40		4.27	24.00	Pass
HE20	MCS0	2	6855	Full	5.10	5.20	8.16	-0.40		7.76	24.00	Pass
HE20	MCS0	2	6855	26/8	-3.70	-4.80	-1.20	-0.40		-1.60	24.00	Pass
HE20	MCS0	2	6855	52/40	-1.10	-1.30	1.81	-0.40		1.41	24.00	Pass
HE20	MCS0	2	6855	106/54	2.00	1.40	4.72	-0.40		4.32	24.00	Pass
HE40	MCS0	2	6565	Full	7.40	7.30	10.36	-0.40		9.96	24.00	Pass
HE40	MCS0	2	6685	Full	8.70	8.40	11.56	-0.40		11.16	24.00	Pass
HE40	MCS0	2	6845	Full	8.40	8.30	11.36	-0.40		10.96	24.00	Pass
HE80	MCS0	2	6625	Full	11.50	11.20	14.36	-0.40		13.96	24.00	Pass
HE80	MCS0	2	6705	Full	11.60	11.70	14.66	-0.40		14.26	24.00	Pass
HE80	MCS0	2	6785	Full	11.50	11.30	14.41	-0.40		14.01	24.00	Pass
HE160	MCS0	2	6665	Full	14.20	14.10	17.16	-0.40		16.76	24.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6875	Full	6.10	5.80	8.96	-0.40		8.56	24.00	Pass
HE20	MCS0	2	6875	26/8	-4.00	-3.70	-0.84	-0.40		-1.24	24.00	Pass
HE20	MCS0	2	6875	52/40	-0.80	-0.40	2.41	-0.40		2.01	24.00	Pass
HE20	MCS0	2	6875	106/54	2.00	2.10	5.06	-0.40		4.66	24.00	Pass
HE40	MCS0	2	6885	Full	8.80	8.90	11.86	-0.40		11.46	24.00	Pass
HE80	MCS0	2	6865	Full	11.00	11.40	14.21	-0.40		13.81	24.00	Pass
HE160	MCS0	2	6825	Full	14.10	14.40	17.26	-0.40		16.86	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6535	Full			-2.07	1.00		-1.07	-1.00	Pass
HE20	MCS0	2	6535	26/0			-2.14	1.00		-1.15	-1.00	Pass
HE20	MCS0	2	6535	52/37			-2.17	1.00		-1.17	-1.00	Pass
HE20	MCS0	2	6535	106/53			-2.63	1.00		-1.64	-1.00	Pass
HE20	MCS0	2	6695	Full			-2.26	1.00		-1.26	-1.00	Pass
HE20	MCS0	2	6695	26/4			-2.78	1.00		-1.79	-1.00	Pass
HE20	MCS0	2	6695	52/38			-2.46	1.00		-1.46	-1.00	Pass
HE20	MCS0	2	6695	106/53			-2.73	1.00		-1.74	-1.00	Pass
HE20	MCS0	2	6855	Full			-2.08	1.00		-1.08	-1.00	Pass
HE20	MCS0	2	6855	26/8			-2.37	1.00		-1.37	-1.00	Pass
HE20	MCS0	2	6855	52/40			-2.55	1.00		-1.55	-1.00	Pass
HE20	MCS0	2	6855	106/54			-2.51	1.00		-1.51	-1.00	Pass
HE40	MCS0	2	6565	Full			-2.94	1.00		-1.94	-1.00	Pass
HE40	MCS0	2	6685	Full			-2.32	1.00		-1.33	-1.00	Pass
HE40	MCS0	2	6845	Full			-2.45	1.00		-1.45	-1.00	Pass
HE80	MCS0	2	6625	Full			-2.37	1.00		-1.37	-1.00	Pass
HE80	MCS0	2	6705	Full			-2.19	1.00		-1.20	-1.00	Pass
HE80	MCS0	2	6785	Full			-2.39	1.00		-1.39	-1.00	Pass
HE160	MCS0	2	6665	Full			-2.32	1.00		-1.33	-1.00	Pass

FCC Band VII straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6875	Full			-2.05	1.00		-1.05	-1.00	Pass
HE20	MCS0	2	6875	26/8			-2.49	1.00		-1.49	-1.00	Pass
HE20	MCS0	2	6875	52/40			-2.32	1.00		-1.33	-1.00	Pass
HE20	MCS0	2	6875	106/54			-2.50	1.00		-1.50	-1.00	Pass
HE40	MCS0	2	6885	Full			-2.16	1.00		-1.17	-1.00	Pass
HE80	MCS0	2	6865	Full			-2.25	1.00		-1.25	-1.00	Pass
HE160	MCS0	2	6825	Full			-2.37	1.00		-1.38	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 7	Ant 3	Ant 7	Ant 3	
HE20	MCS0	2	6895	Full	19.18	19.18	21.90	21.70	
HE20	MCS0	2	6995	Full	19.13	19.13	21.55	21.30	
HE20	MCS0	2	7095	Full	19.13	19.13	21.60	21.60	
HE40	MCS0	2	6925	Full	37.96	37.86	39.78	39.78	
HE40	MCS0	2	7005	Full	37.76	37.76	39.69	40.14	
HE40	MCS0	2	7085	Full	37.76	37.76	39.60	39.78	
HE80	MCS0	2	6945	Full	77.20	76.96	81.92	81.60	
HE80	MCS0	2	7025	Full	77.08	77.08	81.60	81.44	
HE160	MCS0	2	6985	Full	156.56	156.32	164.80	170.24	

TEST RESULTS DATA
EIRP Power Table

Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6895	Full	6.00	7.40	9.77	-2.90		6.87	24.00	Pass
HE20	MCS0	2	6895	26/0	-3.40	-2.20	0.25	-2.90		-2.65	24.00	Pass
HE20	MCS0	2	6895	52/37	-0.80	0.30	2.80	-2.90		-0.10	24.00	Pass
HE20	MCS0	2	6895	106/53	3.00	4.00	6.54	-2.90		3.64	24.00	Pass
HE20	MCS0	2	6995	Full	6.00	7.50	9.82	-2.90		6.92	24.00	Pass
HE20	MCS0	2	6995	26/4	-2.30	-0.90	1.47	-2.90		-1.43	24.00	Pass
HE20	MCS0	2	6995	52/38	-0.70	0.60	3.01	-2.90		0.11	24.00	Pass
HE20	MCS0	2	6995	106/53	2.80	4.00	6.45	-2.90		3.55	24.00	Pass
HE20	MCS0	2	7095	Full	8.50	9.40	11.98	-2.90		9.08	24.00	Pass
HE20	MCS0	2	7095	26/8	-1.40	-0.60	2.03	-2.90		-0.87	24.00	Pass
HE20	MCS0	2	7095	52/40	1.80	2.50	5.17	-2.90		2.27	24.00	Pass
HE20	MCS0	2	7095	106/54	4.30	5.10	7.73	-2.90		4.83	24.00	Pass
HE40	MCS0	2	6925	Full	9.00	10.00	12.54	-2.90		9.64	24.00	Pass
HE40	MCS0	2	7005	Full	9.30	10.70	13.07	-2.90		10.17	24.00	Pass
HE40	MCS0	2	7085	Full	11.00	12.20	14.65	-2.90		11.75	24.00	Pass
HE80	MCS0	2	6945	Full	12.50	13.20	15.87	-2.90		12.97	24.00	Pass
HE80	MCS0	2	7025	Full	12.80	13.60	16.23	-2.90		13.33	24.00	Pass
HE160	MCS0	2	6985	Full	15.40	16.30	18.88	-2.90		15.98	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 7	Ant 3	SUM	Ant 7	Ant 3	SUM		
HE20	MCS0	2	6895	Full			-1.47	-0.28		-1.75	-1.00	Pass
HE20	MCS0	2	6895	26/0			-1.58	-0.28		-1.86	-1.00	Pass
HE20	MCS0	2	6895	52/37			-1.93	-0.28		-2.21	-1.00	Pass
HE20	MCS0	2	6895	106/53			-1.56	-0.28		-1.84	-1.00	Pass
HE20	MCS0	2	6995	Full			-1.12	-0.28		-1.40	-1.00	Pass
HE20	MCS0	2	6995	26/4			-1.38	-0.28		-1.66	-1.00	Pass
HE20	MCS0	2	6995	52/38			-1.59	-0.28		-1.87	-1.00	Pass
HE20	MCS0	2	6995	106/53			-1.54	-0.28		-1.82	-1.00	Pass
HE20	MCS0	2	7095	Full			-0.75	-0.28		-1.03	-1.00	Pass
HE20	MCS0	2	7095	26/8			-1.26	-0.28		-1.54	-1.00	Pass
HE20	MCS0	2	7095	52/40			-1.12	-0.28		-1.40	-1.00	Pass
HE20	MCS0	2	7095	106/54			-1.13	-0.28		-1.41	-1.00	Pass
HE40	MCS0	2	6925	Full			-1.10	-0.28		-1.38	-1.00	Pass
HE40	MCS0	2	7005	Full			-1.05	-0.28		-1.33	-1.00	Pass
HE40	MCS0	2	7085	Full			-0.89	-0.28		-1.17	-1.00	Pass
HE80	MCS0	2	6945	Full			-0.95	-0.28		-1.23	-1.00	Pass
HE80	MCS0	2	7025	Full			-1.04	-0.28		-1.32	-1.00	Pass
HE160	MCS0	2	6985	Full			-1.19	-0.28		-1.47	-1.00	Pass

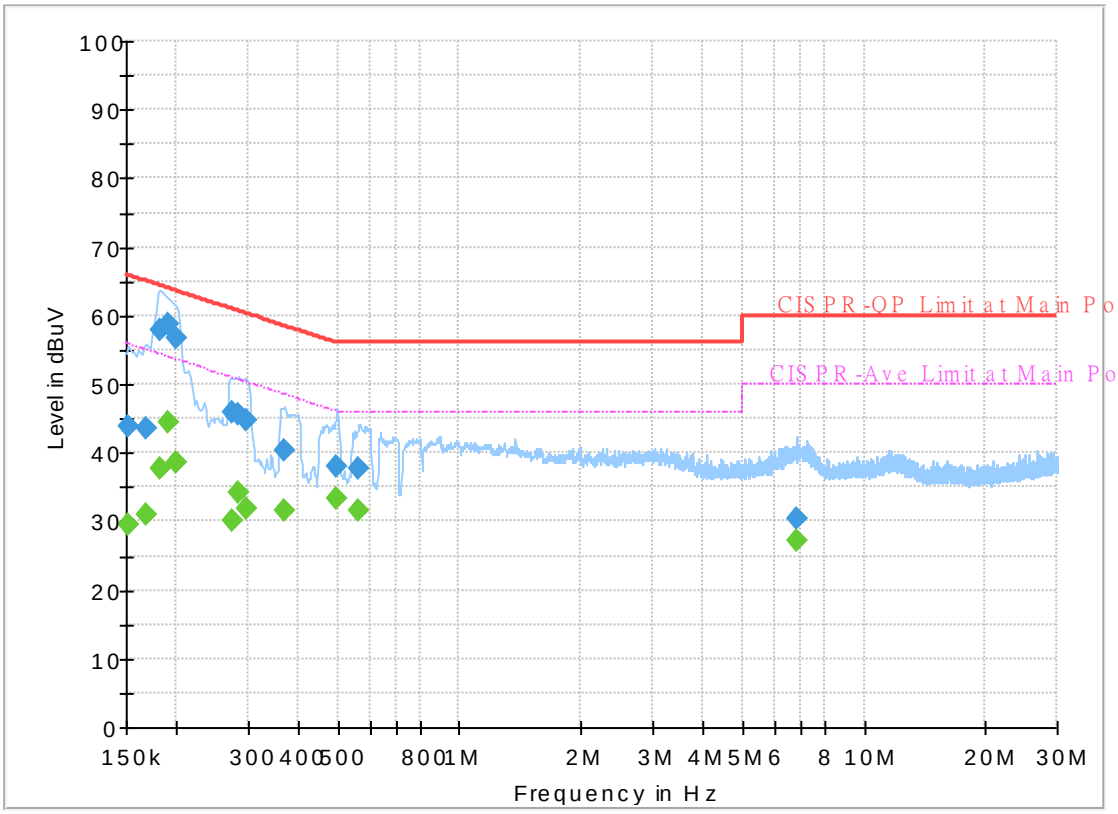
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	121931-04
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



Final_Result

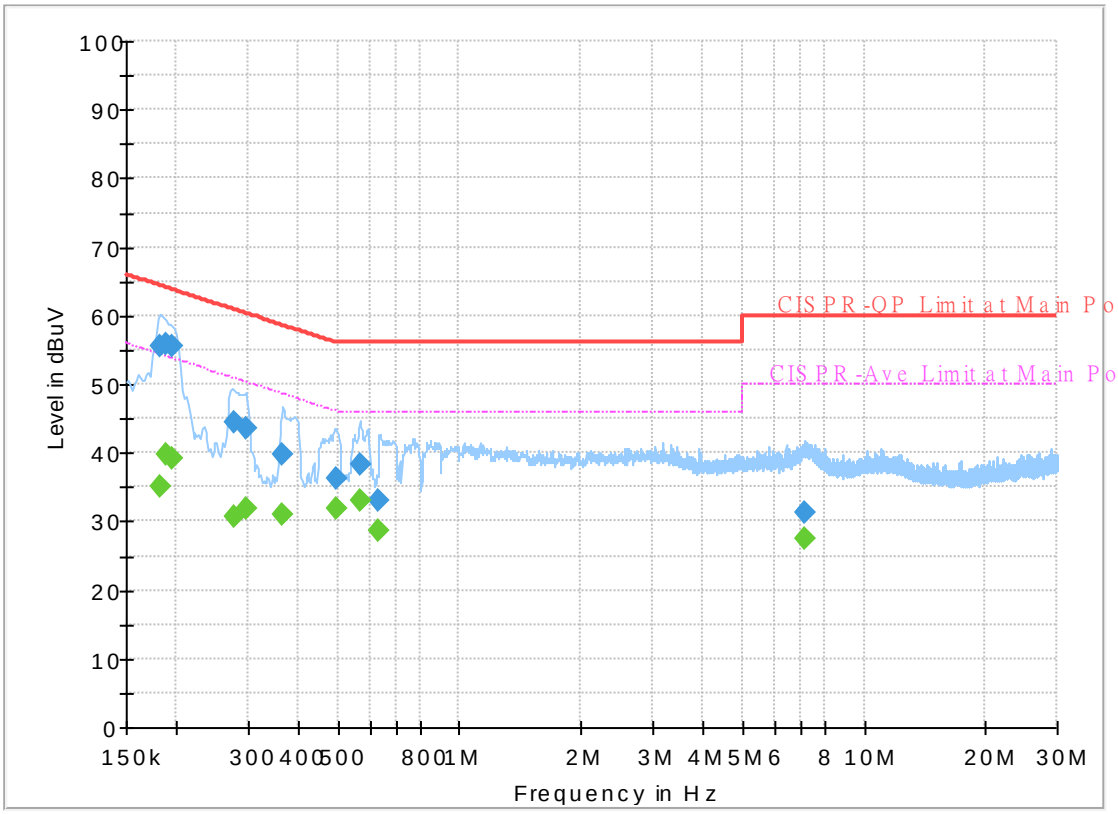
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.49	55.88	26.39	L1	OFF	19.5
0.152250	43.73	---	65.88	22.15	L1	OFF	19.5
0.168000	---	30.98	55.06	24.08	L1	OFF	19.5
0.168000	43.64	---	65.06	21.42	L1	OFF	19.5
0.181500	---	37.78	54.42	16.64	L1	OFF	19.5
0.181500	57.79	---	64.42	6.63	L1	OFF	19.5
0.190500	---	44.53	54.02	9.49	L1	OFF	19.5
0.190500	58.74	---	64.02	5.28	L1	OFF	19.5
0.199500	---	38.58	53.63	15.05	L1	OFF	19.5
0.199500	56.74	---	63.63	6.89	L1	OFF	19.5
0.273750	---	30.14	51.00	20.86	L1	OFF	19.5
0.273750	45.87	---	61.00	15.13	L1	OFF	19.5
0.285000	---	34.35	50.67	16.32	L1	OFF	19.5
0.285000	45.56	---	60.67	15.11	L1	OFF	19.5
0.298500	---	31.76	50.28	18.52	L1	OFF	19.5
0.298500	44.65	---	60.28	15.63	L1	OFF	19.5
0.370500	---	31.52	48.49	16.97	L1	OFF	19.5
0.370500	40.44	---	58.49	18.05	L1	OFF	19.5
0.498750	---	33.39	46.02	12.63	L1	OFF	19.7
0.498750	37.90	---	56.02	18.12	L1	OFF	19.7
0.564000	---	31.50	46.00	14.50	L1	OFF	19.7

0.564000	**37.82**	**---**	**56.00**	**18.18**	**L1**	**OFF**	**19.7**
6.819000	**---**	**27.10**	**50.00**	**22.90**	**L1**	**OFF**	**19.9**
6.819000	**30.32**	**---**	**60.00**	**29.68**	**L1**	**OFF**	**19.9**

EUT Information

Report NO :	121931-04
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)
0.181500	---	34.97	54.42	19.45	N	OFF	19.5
0.181500	55.57	---	64.42	8.85	N	OFF	19.5
0.188250	---	39.77	54.11	14.34	N	OFF	19.5
0.188250	55.92	---	64.11	8.19	N	OFF	19.5
0.195000	---	39.15	53.82	14.67	N	OFF	19.5
0.195000	55.48	---	63.82	8.34	N	OFF	19.5
0.276000	---	30.74	50.94	20.20	N	OFF	19.5
0.276000	44.52	---	60.94	16.42	N	OFF	19.5
0.296250	---	31.75	50.35	18.60	N	OFF	19.5
0.296250	43.63	---	60.35	16.72	N	OFF	19.5
0.366000	---	31.08	48.59	17.51	N	OFF	19.6
0.366000	39.85	---	58.59	18.74	N	OFF	19.6
0.496500	---	31.80	46.06	14.26	N	OFF	19.7
0.496500	36.13	---	56.06	19.93	N	OFF	19.7
0.566250	---	32.94	46.00	13.06	N	OFF	19.8
0.566250	38.21	---	56.00	17.79	N	OFF	19.8
0.633750	---	28.59	46.00	17.41	N	OFF	19.8
0.633750	32.90	---	56.00	23.10	N	OFF	19.8
7.116000	---	27.44	50.00	22.56	N	OFF	20.0
7.116000	31.29	---	60.00	28.71	N	OFF	20.0

Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	24~26°C
		Relative Humidity :	48~55%

Band 5 - 5925~6425MHz

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
7+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5909.14	50.77	-37.43	88.2	38.25	32.12	10.68	30.28	242	302	P	H
		5922.44	40.81	-27.39	68.2	28.27	32.14	10.69	30.29	242	302	A	H
		5116.8	52.24	-21.76	74	40.49	31.8	9.96	30.01	242	302	P	H
		5116.8	41.34	-12.66	54	29.59	31.8	9.96	30.01	242	302	A	H
802.11ax	*	5955	-	-	88.2	87.91	32.2	10.71	30.32	242	302	P	H
HE20	*	5955	-	-	68.2	79.99	32.2	10.71	30.32	242	302	A	H
CH 1		5913.34	51.52	-36.68	88.2	39	32.13	10.68	30.29	100	340	P	V
5955MHz		5924.12	40.88	-27.32	68.2	28.34	32.15	10.69	30.3	100	340	A	V
		5104.4	51.52	-22.48	74	39.78	31.8	9.95	30.01	100	340	P	V
		5104.4	41.46	-12.54	54	29.72	31.8	9.95	30.01	100	340	A	V
	*	5955	-	-	88.2	85.56	32.2	10.71	30.32	100	340	P	V
	*	5955	-	-	68.2	74.52	32.2	10.71	30.32	100	340	A	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. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	46.9	-27.1	74	54.83	38.71	14.66	61.3	-	-	P	H
		18000	59.77	-14.23	74	49.39	49	18.62	57.24	-	-	P	H
802.11ax		18000	49.85	-4.15	54	39.47	49	18.62	57.24	-	-	A	H
HE20 Full													H
CH 1		11910	46.6	-27.4	74	54.53	38.71	14.66	61.3	-	-	P	V
5955MHz		17992	59.74	-14.26	74	49.53	48.86	18.61	57.26	-	-	P	V
		17992	49.96	-4.04	54	39.75	48.86	18.61	57.26	-	-	A	V
													V
		12390	45.44	-28.56	74	54.34	38.23	15	62.13	-	-	P	H
		17984	59.48	-14.52	74	49.44	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	49.8	-4.2	54	39.76	48.71	18.61	57.28	-	-	A	H
HE20 Full		18585	34.97	-39.03	74	55.52	38.4	-3.6	55.35	-	-	P	H
CH 49		12390	45.94	-28.06	74	54.84	38.23	15	62.13	-	-	P	V
6195MHz		17984	58.96	-15.04	74	48.92	48.71	18.61	57.28	-	-	P	V
		17984	48.54	-5.46	54	38.5	48.71	18.61	57.28	-	-	A	V
		18585	35.27	-38.73	74	55.82	38.4	-3.6	55.35	-	-	P	V
		12830	46.02	-42.18	88.2	53.63	38.83	15.34	61.78	-	-	P	H
		17992	59.96	-14.04	74	49.75	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	49.69	-4.31	54	39.48	48.86	18.61	57.26	-	-	A	H
HE20 Full		19245	36.18	-37.82	74	56.47	38.41	-3.65	55.05	-	-	P	H
CH 93		12830	46.92	-41.28	88.2	54.53	38.83	15.34	61.78	-	-	P	V
6415MHz		18000	59.5	-14.5	74	49.12	49	18.62	57.24	-	-	P	V
		18000	49.87	-4.13	54	39.49	49	18.62	57.24	-	-	A	V
		19245	38.79	-35.21	74	59.08	38.41	-3.65	55.05	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5955~6425MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		5872.68	51.05	-37.15	88.2	38.61	32.05	10.65	30.26	242	302	P	H
		5922.18	41.16	-27.04	68.2	28.62	32.14	10.69	30.29	242	302	A	H
		5135.4	51.71	-22.29	74	39.94	31.8	9.98	30.01	242	302	P	H
		5135.4	41.48	-12.52	54	29.71	31.8	9.98	30.01	242	302	A	H
802.11ax	*	5965	-	-	88.2	86.84	32.2	10.72	30.32	242	302	P	H
HE40 Full	*	5965	-	-	68.2	76.41	32.2	10.72	30.32	242	302	A	H
CH 3		5923.62	49.93	-38.27	88.2	37.39	32.15	10.69	30.3	100	336	P	V
5965MHz		5917.86	41.03	-27.17	68.2	28.5	32.14	10.68	30.29	100	336	A	V
		5104.4	51.96	-22.04	74	40.22	31.8	9.95	30.01	100	336	P	V
		5104.4	41.5	-12.5	54	29.76	31.8	9.95	30.01	100	336	A	V
	*	5965	-	-	88.2	84.01	32.2	10.72	30.32	100	336	P	V
	*	5965	-	-	68.2	73.75	32.2	10.72	30.32	100	336	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5955~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	46.02	-27.98	74	53.95	38.73	14.67	61.33	-	-	P	H
		18000	58.79	-15.21	74	48.41	49	18.62	57.24	-	-	P	H
802.11ax		18000	48.95	-5.05	54	38.57	49	18.62	57.24	-	-	A	H
HE40 Full													H
CH 3		11930	48.92	-25.08	74	56.85	38.73	14.67	61.33	-	-	P	V
55965MHz		17976	58.31	-15.69	74	48.44	48.57	18.6	57.3	-	-	P	V
		17976	48.55	-5.45	54	38.68	48.57	18.6	57.3	-	-	A	V
													V
		12410	45.17	-28.83	74	54.12	38.19	15.02	62.16	-	-	P	H
		18000	58.42	-15.58	74	48.04	49	18.62	57.24	-	-	P	H
802.11ax		18000	48.66	-5.34	54	38.28	49	18.62	57.24	-	-	A	H
HE40 Full		18615	35.93	-38.07	74	56.51	38.36	-3.61	55.33	-	-	P	H
CH 51		12410	45.98	-28.02	74	54.93	38.19	15.02	62.16	-	-	P	V
6205MHz		18000	58.51	-15.49	74	48.13	49	18.62	57.24	-	-	P	V
		18000	48.76	-5.24	54	38.38	49	18.62	57.24	-	-	A	V
		18615	36.23	-37.77	74	56.81	38.36	-3.61	55.33	-	-	P	V
		12810	46.14	-42.06	88.2	53.82	38.81	15.33	61.82	-	-	P	H
		18000	59.43	-14.57	74	49.05	49	18.62	57.24	-	-	P	H
802.11ax		18000	49.66	-4.34	54	39.28	49	18.62	57.24	-	-	A	H
HE40 Full		19215	34.45	-39.55	74	54.72	38.44	-3.65	55.06	-	-	P	H
CH 91		12810	45.53	-42.67	88.2	53.21	38.81	15.33	61.82	-	-	P	V
6405MHz		17984	58.68	-15.32	74	48.64	48.71	18.61	57.28	-	-	P	V
		17984	48.54	-5.46	54	38.5	48.71	18.61	57.28	-	-	A	V
		19215	34.32	-39.68	74	54.59	38.44	-3.65	55.06	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5955~6425MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		5922.44	51.43	-36.77	88.2	38.89	32.14	10.69	30.29	245	302	P	H
		5919.88	43.03	-25.17	68.2	30.5	32.14	10.68	30.29	245	302	A	H
		5085.8	52.97	-21.03	74	41.28	31.77	9.93	30.01	245	302	P	H
		5085.8	42.46	-11.54	54	30.77	31.77	9.93	30.01	245	302	A	H
802.11ax	*	5985	97.82	-	-	85.23	32.2	10.73	30.34	245	302	P	H
HE80 Full	*	5985	88.93	-	-	76.34	32.2	10.73	30.34	245	302	A	H
CH 7		5893.8	50.65	-37.55	88.2	38.16	32.09	10.67	30.27	100	340	P	V
5985MHz		5907.56	42.31	-25.89	68.2	29.79	32.12	10.68	30.28	100	340	A	V
		5116.8	51.48	-22.52	74	39.73	31.8	9.96	30.01	100	340	P	V
		5116.8	42.29	-11.71	54	30.54	31.8	9.96	30.01	100	340	A	V
	*	5985	96.58	-	-	83.99	32.2	10.73	30.34	100	340	P	V
	*	5985	86.95	-	-	74.36	32.2	10.73	30.34	100	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5955~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	46.62	-27.38	74	54.54	38.77	14.68	61.37	-	-	P	H
		17984	59.05	-14.95	74	49.01	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	49.17	-4.83	54	39.13	48.71	18.61	57.28	-	-	A	H
HE80 Full													
CH 7		11970	46	-28	74	53.92	38.77	14.68	61.37	-	-	P	V
5985MHz		18000	58.81	-15.19	74	48.43	49	18.62	57.24	-	-	P	V
		18000	48.64	-5.36	54	38.26	49	18.62	57.24	-	-	A	V
		12450	46.9	-27.1	74	55.95	38.15	15.04	62.24	-	-	P	H
		17976	58.51	-15.49	74	48.64	48.57	18.6	57.3	-	-	P	H
802.11ax		17976	48.24	-5.76	54	38.37	48.57	18.6	57.3	-	-	A	H
HE80 Full		18675	36.92	-37.08	74	57.55	38.29	-3.62	55.3	-	-	P	H
CH 55		12450	45.5	-28.5	74	54.55	38.15	15.04	62.24	-	-	P	V
6225MHz		18000	58.51	-15.49	74	48.13	49	18.62	57.24	-	-	P	V
		18000	48.65	-5.35	54	38.27	49	18.62	57.24	-	-	A	V
		18675	35.55	-38.45	74	56.18	38.28	-3.62	55.3	-	-	P	V
		12570	46.37	-27.63	74	55.2	38.24	15.14	62.21	-	-	P	H
		17984	58.71	-15.29	74	48.67	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.77	-5.23	54	38.73	48.71	18.61	57.28	-	-	A	H
HE80 Full		19155	36.62	-37.38	74	56.84	38.51	-3.66	55.07	-	-	P	H
CH 87		12570	46.29	-27.71	74	55.12	38.24	15.14	62.21	-	-	P	V
6285MHz		17984	59.39	-14.61	74	49.35	48.71	18.61	57.28	-	-	P	V
		17984	49.54	-4.46	54	39.5	48.71	18.61	57.28	-	-	A	V
		19155	35.36	-38.64	74	55.58	38.51	-3.66	55.07	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 5 5955~6425MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		5917.8	54.31	-33.89	88.2	41.78	32.14	10.68	30.29	247	300	P	H
		5921	43.53	-24.67	68.2	31	32.14	10.68	30.29	247	300	A	H
		5116.8	51.53	-22.47	74	39.78	31.8	9.96	30.01	247	300	P	H
		5116.8	42.33	-11.67	54	30.58	31.8	9.96	30.01	247	300	A	H
802.11ax	*	6025	99.45	-	-	86.91	32.15	10.76	30.37	247	300	P	H
HE160 Full	*	6025	88.95	-	-	76.41	32.15	10.76	30.37	247	300	A	H
CH 15		5916.52	56.03	-32.17	88.2	43.51	32.13	10.68	30.29	100	337	P	V
6025MHz		5917.8	43.71	-24.49	68.2	31.18	32.14	10.68	30.29	100	337	A	V
		5061	51.53	-22.47	74	39.93	31.72	9.9	30.02	100	337	P	V
		5061	42.05	-11.95	54	30.45	31.72	9.9	30.02	100	337	A	V
	*	6025	96.68	-	-	84.14	32.15	10.76	30.37	100	337	P	V
	*	6025	86.74	-	-	74.2	32.15	10.76	30.37	100	337	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 5 5955~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	46.03	-27.97	74	53.93	38.85	14.74	61.49	-	-	P	H
		17976	58.25	-15.75	74	48.38	48.57	18.6	57.3	-	-	P	H
802.11ax		17976	48.36	-5.64	54	38.49	48.57	18.6	57.3	-	-	A	H
HE160 Full		18075	35.22	-38.78	74	56.81	37.96	-3.72	55.83	-	-	P	H
CH 15		12050	46.09	-27.91	74	53.99	38.85	14.74	61.49	-	-	P	V
6025MHz		17968	58.14	-15.86	74	48.44	48.42	18.59	57.31	-	-	P	V
		17968	48.37	-5.63	54	38.67	48.42	18.59	57.31	-	-	A	V
		18075	34.46	-39.54	74	56.05	37.96	-3.72	55.83	-	-	P	V
		12370	46.66	-27.34	74	55.48	38.29	14.98	62.09	-	-	P	H
		17992	57.96	-16.04	74	47.75	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.19	-5.81	54	37.98	48.86	18.61	57.26	-	-	A	H
HE160 Full		18555	35.61	-38.39	74	56.15	38.43	-3.6	55.37	-	-	P	H
CH 47		12370	46.85	-27.15	74	55.67	38.29	14.98	62.09	-	-	P	V
6185MHz		17984	57.94	-16.06	74	47.9	48.71	18.61	57.28	-	-	P	V
		17984	48.02	-5.98	54	37.98	48.71	18.61	57.28	-	-	A	V
		18555	34.73	-39.27	74	55.27	38.43	-3.6	55.37	-	-	P	V
		12690	45.24	-28.76	74	53.54	38.48	15.23	62.01	-	-	P	H
		17992	58.01	-15.99	74	47.8	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.15	-5.85	54	37.94	48.86	18.61	57.26	-	-	A	H
HE160 Full		19035	36.9	-37.1	74	57	38.66	-3.67	55.09	-	-	P	H
CH 79		12690	46.23	-27.77	74	54.53	38.48	15.23	62.01	-	-	P	V
6345MHz		17984	58.82	-15.18	74	48.78	48.71	18.61	57.28	-	-	P	V
		17984	49.03	-4.97	54	38.99	48.71	18.61	57.28	-	-	A	V
		19035	36.73	-37.27	74	56.83	38.66	-3.67	55.09	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 6 6425~6525MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		12870	46.51	-41.69	88.2	53.99	38.87	15.37	61.72	-	-	P	H
		17984	58.81	-15.19	74	48.77	48.71	18.61	57.28	-	-	P	H
802.11a		17984	49.02	-4.98	54	38.98	48.71	18.61	57.28	-	-	A	H
HE20 Full		19305	35.38	-38.62	74	55.74	38.33	-3.65	55.04	-	-	P	H
CH 97		12870	47.09	-41.11	88.2	54.57	38.87	15.37	61.72	-	-	P	V
6435MHz		17992	59.15	-14.85	74	48.94	48.86	18.61	57.26	-	-	P	V
		17992	48.98	-5.02	54	38.77	48.86	18.61	57.26	-	-	A	V
		19305	35.96	-38.04	74	56.32	38.33	-3.65	55.04	-	-	P	V
		12950	46.67	-41.53	88.2	53.87	38.95	15.43	61.58	-	-	P	H
		17976	58.77	-15.23	74	48.9	48.57	18.6	57.3	-	-	P	H
802.11a		17976	48.85	-5.15	54	38.98	48.57	18.6	57.3	-	-	A	H
HE20 Full		19425	35.08	-38.92	74	55.54	38.19	-3.64	55.01	-	-	P	H
CH 105		12950	45.76	-42.44	88.2	52.96	38.95	15.43	61.58	-	-	P	V
6475MHz		17992	58.5	-15.5	74	48.29	48.86	18.61	57.26	-	-	P	V
		17992	48.99	-5.01	54	38.78	48.86	18.61	57.26	-	-	A	V
		19425	34.77	-39.23	74	55.23	38.19	-3.64	55.01	-	-	P	V
		13030	45.39	-42.81	88.2	52.47	38.97	15.49	61.54	-	-	P	H
		17992	59.24	-14.76	74	49.03	48.86	18.61	57.26	-	-	P	H
802.11a		17992	49.58	-4.42	54	39.37	48.86	18.61	57.26	-	-	A	H
HE20 Full		19545	34.3	-39.7	74	54.76	38.15	-3.62	54.99	-	-	P	H
CH 113		13030	46.46	-41.74	88.2	53.54	38.97	15.49	61.54	-	-	P	V
6515MHz		17984	59.08	-14.92	74	49.04	48.71	18.61	57.28	-	-	P	V
		17984	49.32	-4.68	54	39.28	48.71	18.61	57.28	-	-	A	V
		19545	35.63	-38.37	74	56.09	38.15	-3.62	54.99	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 6 6425~6525MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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)
		12890	47.1	-41.1	88.2	54.5	38.89	15.39	61.68	-	-	P	H
		17984	58.48	-15.52	74	48.44	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.72	-5.28	54	38.68	48.71	18.61	57.28	-	-	A	H
HE40 Full		19335	36.3	-37.7	74	56.67	38.3	-3.64	55.03	-	-	P	H
CH 99		12890	45.38	-42.82	88.2	52.78	38.89	15.39	61.68	-	-	P	V
6445MHz		17984	58.87	-15.13	74	48.83	48.71	18.61	57.28	-	-	P	V
		17984	48.97	-5.03	54	38.93	48.71	18.61	57.28	-	-	A	V
		19335	34.84	-39.16	74	55.21	38.3	-3.64	55.03	-	-	P	V
		12970	45.24	-42.96	88.2	52.37	38.97	15.45	61.55	-	-	P	H
		18000	58.87	-15.13	74	48.49	49	18.62	57.24	-	-	P	H
802.11ax		18000	49.06	-4.94	54	38.68	49	18.62	57.24	-	-	A	H
HE40 Full		19455	36.23	-37.77	74	56.72	38.15	-3.63	55.01	-	-	P	H
CH 107		12970	45.97	-42.23	88.2	53.1	38.97	15.45	61.55	-	-	P	V
6485MHz		17984	58.54	-15.46	74	48.5	48.71	18.61	57.28	-	-	P	V
		17984	48.72	-5.28	54	38.68	48.71	18.61	57.28	-	-	A	V
		19455	34.74	-39.26	74	55.23	38.15	-3.63	55.01	-	-	P	V
		13050	46.08	-42.12	88.2	53.2	38.95	15.5	61.57	-	-	P	H
		18000	58.32	-15.68	74	47.94	49	18.62	57.24	-	-	P	H
802.11ax		18000	48.24	-5.76	54	37.86	49	18.62	57.24	-	-	A	H
HE40 Full		19575	35.99	-38.01	74	56.41	38.19	-3.62	54.99	-	-	P	H
CH 115		13050	45.24	-42.96	88.2	52.36	38.95	15.5	61.57	-	-	P	V
6525MHz		17984	59.33	-14.67	74	49.29	48.71	18.61	57.28	-	-	P	V
		17984	49.41	-4.59	54	39.37	48.71	18.61	57.28	-	-	A	V
		19575	36.36	-37.64	74	56.78	38.19	-3.62	54.99	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 6 6425~6525MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		12930	45.69	-42.51	88.2	52.97	38.93	15.41	61.62	-	-	P	H
		18000	58.79	-15.21	74	48.41	49	18.62	57.24	-	-	P	H
802.11ax		18000	49.01	-4.99	54	38.63	49	18.62	57.24	-	-	A	H
HE80 Full		19395	34.97	-39.03	74	55.4	38.23	-3.64	55.02	-	-	P	H
CH 103		12930	46.03	-42.17	88.2	53.31	38.93	15.41	61.62	-	-	P	V
6465MHz		17984	58.97	-15.03	74	48.93	48.71	18.61	57.28	-	-	P	V
		17984	48.88	-5.12	54	38.84	48.71	18.61	57.28	-	-	A	V
		19395	35.35	-38.65	74	55.78	38.23	-3.64	55.02	-	-	P	V
		13090	45.88	-42.32	88.2	53.06	38.91	15.53	61.62	-	-	P	H
		17992	58.42	-15.58	74	48.21	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.65	-5.35	54	38.44	48.86	18.61	57.26	-	-	A	H
HE80 Full		19635	34.89	-39.11	74	55.2	38.26	-3.6	54.97	-	-	P	H
CH 119		13090	45.75	-42.45	88.2	52.93	38.91	15.53	61.62	-	-	P	V
6545MHz		17984	59.26	-14.74	74	49.22	48.71	18.61	57.28	-	-	P	V
		17984	49.51	-4.49	54	39.47	48.71	18.61	57.28	-	-	A	V
		19635	34.68	-39.32	74	54.99	38.26	-3.6	54.97	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 6 6425~6525MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
802.11ax HE160 Full CH 111 6505MHz		13010	45.75	-42.45	88.2	52.79	38.99	15.48	61.51	-	-	P	H
		17984	58.03	-15.97	74	47.99	48.71	18.61	57.28	-	-	P	H
		17984	47.84	-6.16	54	37.8	48.71	18.61	57.28	-	-	A	H
		19515	34.77	-39.23	74	55.28	38.12	-3.63	55	-	-	P	H
		13010	45.5	-42.7	88.2	52.54	38.99	15.48	61.51	-	-	P	V
		17992	58.24	-15.76	74	48.03	48.86	18.61	57.26	-	-	P	V
		17992	48.48	-5.52	54	38.27	48.86	18.61	57.26	-	-	A	V
		19515	34.84	-39.16	74	55.35	38.12	-3.63	55	-	-	P	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. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Band 7 6525~6875MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	45.77	-42.43	88.2	52.92	38.93	15.52	61.6	-	-	P	H
		17992	57.93	-16.07	74	47.72	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.04	-5.96	54	37.83	48.86	18.61	57.26	-	-	A	H
HE20 Full		19605	33.86	-40.14	74	54.22	38.23	-3.61	54.98	-	-	P	H
CH 117		13070	44.54	-43.66	88.2	51.69	38.93	15.52	61.6	-	-	P	V
6535MHz		18000	58.63	-15.37	74	48.25	49	18.62	57.24	-	-	P	V
		18000	48.87	-5.13	54	38.49	49	18.62	57.24	-	-	A	V
		19605	35.09	-38.91	74	55.45	38.23	-3.61	54.98	-	-	P	V
		13390	46.74	-27.26	74	53.51	39.55	15.72	62.04	-	-	P	H
		17992	57.84	-16.16	74	47.63	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.07	-5.93	54	37.86	48.86	18.61	57.26	-	-	A	H
HE20 Full		20085	34.89	-39.11	74	55.14	38.17	-3.52	54.9	-	-	P	H
CH 149		13390	46.44	-27.56	74	53.21	39.55	15.72	62.04	-	-	P	V
6695MHz		17984	57.63	-16.37	74	47.59	48.71	18.61	57.28	-	-	P	V
		17984	47.74	-6.26	54	37.7	48.71	18.61	57.28	-	-	A	V
		20085	34.56	-39.44	74	54.81	38.17	-3.52	54.9	-	-	P	V
		13710	45.22	-42.98	88.2	51.9	40.1	15.92	62.7	-	-	P	H
		17992	57.57	-16.43	74	47.36	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	47.89	-6.11	54	37.68	48.86	18.61	57.26	-	-	A	H
HE20 Full		20565	35.97	-38.03	74	56.17	38.15	-3.48	54.87	-	-	P	H
CH 181		13710	46.18	-42.02	88.2	52.86	40.1	15.92	62.7	-	-	P	V
6855MHz		17928	57.61	-16.39	74	48.76	47.7	18.56	57.41	-	-	P	V
		17928	47.43	-6.57	54	38.58	47.7	18.56	57.41	-	-	A	V
		20565	35.82	-38.18	74	56.02	38.15	-3.48	54.87	-	-	P	V

		13750	46.05	-42.15	88.2	52.79	40.1	15.95	62.79	-	-	P	H
		17984	58.21	-15.79	74	48.17	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.72	-5.28	54	38.68	48.71	18.61	57.28	-	-	A	H
HE20 Full		20625	36	-38	74	56.11	38.2	-3.46	54.85	-	-	P	H
CH 185		13750	45.73	-42.47	88.2	52.47	40.1	15.95	62.79	-	-	P	V
6875MHz		17992	57.61	-16.39	74	47.4	48.86	18.61	57.26	-	-	P	V
		17992	47.65	-6.35	54	37.44	48.86	18.61	57.26	-	-	A	V
		20625	35.93	-38.07	74	56.04	38.2	-3.46	54.85	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 7 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	44.47	-43.73	88.2	51.7	38.9	15.55	61.68	-	-	P	H
		17992	57.71	-16.29	74	47.5	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	47.93	-6.07	54	37.72	48.86	18.61	57.26	-	-	A	H
HE40 Full		19695	35.51	-38.49	74	55.73	38.33	-3.59	54.96	-	-	P	H
CH 123		13130	44.73	-43.47	88.2	51.96	38.9	15.55	61.68	-	-	P	V
6565MHz		17992	58.38	-15.62	74	48.17	48.86	18.61	57.26	-	-	P	V
		17992	48.49	-5.51	54	38.28	48.86	18.61	57.26	-	-	A	V
		19695	36.36	-37.64	74	56.58	38.33	-3.59	54.96	-	-	P	V
		13370	46.04	-27.96	74	52.89	39.45	15.71	62.01	-	-	P	H
		17984	57.72	-16.28	74	47.68	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	47.81	-6.19	54	37.77	48.71	18.61	57.28	-	-	A	H
HE40 Full		20055	36.62	-37.38	74	56.87	38.18	-3.53	54.9	-	-	P	H
CH 147		13370	45.7	-28.3	74	52.55	39.45	15.71	62.01	-	-	P	V
6685MHz		17968	58.63	-15.37	74	48.93	48.42	18.59	57.31	-	-	P	V
		17968	48.38	-5.62	54	38.68	48.42	18.59	57.31	-	-	A	V
		20055	34.68	-39.32	74	54.93	38.18	-3.53	54.9	-	-	P	V
		13690	44.83	-43.37	88.2	51.48	40.09	15.91	62.65	-	-	P	H
		17992	59.46	-14.54	74	49.25	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	49.57	-4.43	54	39.36	48.86	18.61	57.26	-	-	A	H
HE40 Full		20535	35.21	-38.79	74	55.46	38.13	-3.49	54.89	-	-	P	H
CH 179		13690	45.69	-42.51	88.2	52.34	40.09	15.91	62.65	-	-	P	V
6845MHz		17992	57.77	-16.23	74	47.56	48.86	18.61	57.26	-	-	P	V
		17992	47.98	-6.02	54	37.77	48.86	18.61	57.26	-	-	A	V
		20535	36.99	-37.01	74	57.24	38.13	-3.49	54.89	-	-	P	V

		13770	46.41	-41.79	88.2	53.19	40.1	15.96	62.84	-	-	P	H
		17984	58.07	-15.93	74	48.03	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.4	-5.6	54	38.36	48.71	18.61	57.28	-	-	A	H
HE40 Full		20655	35.84	-38.16	74	55.91	38.22	-3.45	54.84	-	-	P	H
CH 187		13770	45.91	-42.29	88.2	52.69	40.1	15.96	62.84	-	-	P	V
66885MHz		18000	58.24	-15.76	74	47.86	49	18.62	57.24	-	-	P	V
		18000	48.32	-5.68	54	37.94	49	18.62	57.24	-	-	A	V
		20656	36.86	-37.14	74	56.93	38.22	-3.45	54.84	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 7 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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	47.1	-26.9	74	54.32	39	15.63	61.85	-	-	P	H
		18000	60.79	-13.21	74	50.41	49	18.62	57.24	-	-	P	H
802.11ax		18000	50.76	-3.24	54	40.38	49	18.62	57.24	-	-	A	H
HE80 Full		19875	35.68	-38.32	74	55.86	38.3	-3.55	54.93	-	-	P	H
CH 135		13250	46.88	-27.12	74	54.1	39	15.63	61.85	-	-	P	V
6625MHz		17992	59.39	-14.61	74	49.18	48.86	18.61	57.26	-	-	P	V
		17992	49.5	-4.5	54	39.29	48.86	18.61	57.26	-	-	A	V
		19875	34.54	-39.46	74	54.72	38.3	-3.55	54.93	-	-	P	V
		13410	46.26	-41.94	88.2	52.97	39.62	15.74	62.07	-	-	P	H
		17992	58.07	-15.93	74	47.86	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.18	-5.82	54	37.97	48.86	18.61	57.26	-	-	A	H
HE80 Full		20115	35.45	-38.55	74	55.72	38.15	-3.52	54.9	-	-	P	H
CH 151		13410	47	-41.2	88.2	53.71	39.62	15.74	62.07	-	-	P	V
6705MHz		17984	58.79	-15.21	74	48.75	48.71	18.61	57.28	-	-	P	V
		17984	48.92	-5.08	54	38.88	48.71	18.61	57.28	-	-	A	V
		20115	35.16	-38.84	74	55.43	38.15	-3.52	54.9	-	-	P	V
		13570	46.28	-41.92	88.2	52.87	39.94	15.83	62.36	-	-	P	H
		17992	59.3	-14.7	74	49.09	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	49.49	-4.51	54	39.28	48.86	18.61	57.26	-	-	A	H
HE80 Full		20355	35.1	-38.9	74	55.41	38.1	-3.51	54.9	-	-	P	H
CH 167		13570	46.82	-41.38	88.2	53.41	39.94	15.83	62.36	-	-	P	V
6785MHz		17984	58.72	-15.28	74	48.68	48.71	18.61	57.28	-	-	P	V
		17984	48.78	-5.22	54	38.74	48.71	18.61	57.28	-	-	A	V
		20355	35.93	-38.07	74	56.24	38.1	-3.51	54.9	-	-	P	V

		13730	47.12	-41.08	88.2	53.84	40.1	15.93	62.75	-	-	P	H
		17984	57.88	-16.12	74	47.84	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.03	-5.97	54	37.99	48.71	18.61	57.28	-	-	A	H
HE80 Full		20595	36.3	-37.7	74	56.45	38.18	-3.47	54.86	-	-	P	H
CH 183		13730	47.18	-41.02	88.2	53.9	40.1	15.93	62.75	-	-	P	V
6865MHz		17984	58.12	-15.88	74	48.08	48.71	18.61	57.28	-	-	P	V
		17984	48.2	-5.8	54	38.16	48.71	18.61	57.28	-	-	A	V
		20595	36.04	-37.96	74	56.19	38.18	-3.47	54.86	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 7 6525~6875MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
802.11ax HE160 Full CH 143 6665MHz		13330	46.51	-27.49	74	53.54	39.25	15.68	61.96	-	-	P	H
		17984	58.91	-15.09	74	48.87	48.71	18.61	57.28	-	-	P	H
		17984	48.98	-5.02	54	38.94	48.71	18.61	57.28	-	-	A	H
		19995	34.74	-39.26	74	54.97	38.2	-3.53	54.9	-	-	P	H
		13330	46.4	-27.6	74	53.43	39.25	15.68	61.96	-	-	P	V
		17992	58.36	-15.64	74	48.15	48.86	18.61	57.26	-	-	P	V
		17992	48.49	-5.51	54	38.28	48.86	18.61	57.26	-	-	A	V
		19995	36.04	-37.96	74	56.27	38.2	-3.53	54.9	-	-	P	V
802.11ax HE160 Full CH 175 6825MHz		13650	46.88	-41.32	88.2	53.5	40.05	15.88	62.55	-	-	P	H
		17992	57.96	-16.04	74	47.75	48.86	18.61	57.26	-	-	P	H
		17992	47.91	-6.09	54	37.7	48.86	18.61	57.26	-	-	A	H
		20475	35.89	-38.11	74	56.19	38.1	-3.5	54.9	-	-	P	H
		13650	46.13	-42.07	88.2	52.75	40.05	15.88	62.55	-	-	P	V
		17984	59.47	-14.53	74	49.43	48.71	18.61	57.28	-	-	P	V
		17984	49.33	-4.67	54	39.29	48.71	18.61	57.28	-	-	A	V
		20475	35.73	-38.27	74	56.03	38.1	-3.5	54.9	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 8 - 6875~7125MHz

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5073.4	51.71	-22.29	74	40.06	31.75	9.92	30.02	251	38	P	H
		5073.4	41.28	-12.72	54	29.63	31.75	9.92	30.02	251	38	A	H
	*	7095	91.73	-	-	75.69	35.57	11.61	31.14	251	38	P	H
	*	7095	81.7	-	-	65.66	35.57	11.61	31.14	251	38	A	H
802.11ax		7142.92	54.78	-33.42	88.2	38.43	35.86	11.65	31.16	251	38	P	H
HE20		7194.6	45.14	-23.06	68.2	28.54	36.08	11.7	31.18	251	38	A	H
CH 229		5048.6	52.53	-21.47	74	40.97	31.69	9.89	30.02	100	12	P	V
7095MHz		5048.6	42.35	-11.65	54	30.79	31.69	9.89	30.02	100	12	A	V
	*	7095	89.96	-	-	73.92	35.57	11.61	31.14	100	12	P	V
	*	7095	80.76	-	-	64.72	35.57	11.61	31.14	100	12	A	V
		7232.52	55.52	-32.68	88.2	38.82	36.17	11.72	31.19	100	12	P	V
		7239.72	45.23	-22.97	68.2	28.53	36.18	11.72	31.2	100	12	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		13790	46.68	-41.52	88.2	53.5	40.1	15.97	62.89	-	-	P	H
		18000	59.67	-14.33	74	49.29	49	18.62	57.24	-	-	P	H
802.11a		18000	49.76	-4.24	54	39.38	49	18.62	57.24	-	-	A	H
HE20 Full		20685	36.68	-37.32	74	56.7	38.25	-3.44	54.83	-	-	P	H
CH 189		13790	47.1	-41.1	88.2	53.92	40.1	15.97	62.89	-	-	P	V
6895MHz		17992	59.64	-14.36	74	49.43	48.86	18.61	57.26	-	-	P	V
		17992	49.51	-4.49	54	39.3	48.86	18.61	57.26	-	-	A	V
		20685	35.47	-38.53	74	55.49	38.25	-3.44	54.83	-	-	P	V
		13990	48.83	-39.37	88.2	55.33	40.78	16.1	63.38	-	-	P	H
		17984	59.38	-14.62	74	49.34	48.71	18.61	57.28	-	-	P	H
802.11a		17984	49.74	-4.26	54	39.7	48.71	18.61	57.28	-	-	A	H
HE20 Full		20985	34.74	-39.26	74	54.88	37.92	-3.35	54.71	-	-	P	H
CH 209		13990	48.62	-39.58	88.2	55.12	40.78	16.1	63.38	-	-	P	V
6995MHz		17984	58.86	-15.14	74	48.82	48.71	18.61	57.28	-	-	P	V
		17984	48.81	-5.19	54	38.77	48.71	18.61	57.28	-	-	A	V
		20985	35.04	-38.96	74	55.18	37.92	-3.35	54.71	-	-	P	V
		14190	49.82	-38.38	88.2	55.78	41.17	16.18	63.31	-	-	P	H
		17992	59.86	-14.14	74	49.65	48.86	18.61	57.26	-	-	P	H
802.11a		17992	50	-4	54	39.79	48.86	18.61	57.26	-	-	A	H
HE20 Full		21285	36.02	-37.98	74	55.61	38.4	-3.29	54.7	-	-	P	H
CH 229		14190	49.83	-38.37	88.2	55.79	41.17	16.18	63.31	-	-	P	V
7095MHz		18000	59.4	-14.6	74	49.02	49	18.62	57.24	-	-	P	V
		18000	49.68	-4.32	54	39.3	49	18.62	57.24	-	-	A	V
		21285	36.8	-37.2	74	56.39	38.4	-3.29	54.7	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 8 - 6875~7125MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		5110.6	52.94	-21.06	74	41.19	31.8	9.96	30.01	231	43	P	H
		5110.6	41.57	-12.43	54	29.82	31.8	9.96	30.01	231	43	A	H
	*	7085	93.4	-	-	77.43	35.51	11.6	31.14	231	43	P	H
	*	7085	82.31	-	-	66.34	35.51	11.6	31.14	231	43	A	H
802.11ax		7174.62	55.02	-33.18	88.2	38.51	36	11.68	31.17	231	43	P	H
HE40 Full		7239.6	45.25	-22.95	68.2	28.55	36.18	11.72	31.2	231	43	A	H
CH 227		5116.8	52.45	-21.55	74	40.7	31.8	9.96	30.01	100	12	P	V
7085MHz		5116.8	41.57	-12.43	54	29.82	31.8	9.96	30.01	100	12	A	V
	*	7085	92.17	-	-	76.2	35.51	11.6	31.14	100	12	P	V
	*	7085	82.29	-	-	66.32	35.51	11.6	31.14	100	12	A	V
		7136.82	54.94	-33.26	88.2	38.63	35.82	11.65	31.16	100	12	P	V
		7242.66	45.1	-23.1	68.2	28.39	36.19	11.72	31.2	100	12	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		13850	48.46	-39.74	88.2	55.14	40.35	16.01	63.04	-	-	P	H
		18000	58.98	-15.02	74	48.6	49	18.62	57.24	-	-	P	H
802.11ax		18000	49.12	-4.88	54	38.74	49	18.62	57.24	-	-	A	H
HE40 Full		20775	35.72	-38.28	74	55.67	38.26	-3.42	54.79	-	-	P	H
CH 195		13850	47.3	-40.9	88.2	53.98	40.35	16.01	63.04	-	-	P	V
6925MHz		17992	58.55	-15.45	74	48.34	48.86	18.61	57.26	-	-	P	V
		17992	48.96	-5.04	54	38.75	48.86	18.61	57.26	-	-	A	V
		20775	35.45	-38.55	74	55.4	38.26	-3.42	54.79	-	-	P	V
		14010	48.93	-39.27	88.2	55.41	40.81	16.11	63.4	-	-	P	H
		17992	58.51	-15.49	74	48.3	48.86	18.61	57.26	-	-	P	H
802.11ax		17992	48.98	-5.02	54	38.77	48.86	18.61	57.26	-	-	A	H
HE40 Full		21015	35.64	-38.36	74	55.76	37.93	-3.35	54.7	-	-	P	H
CH 211		14010	48.23	-39.97	88.2	54.71	40.81	16.11	63.4	-	-	P	V
7005MHz		17984	59.16	-14.84	74	49.12	48.71	18.61	57.28	-	-	P	V
		17984	49.76	-4.24	54	39.72	48.71	18.61	57.28	-	-	A	V
		21015	34.44	-39.56	74	54.56	37.93	-3.35	54.7	-	-	P	V
		14170	48.57	-39.63	88.2	54.61	41.11	16.17	63.32	-	-	P	H
		17984	59.23	-14.77	74	49.19	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	49.42	-4.58	54	39.38	48.71	18.61	57.28	-	-	A	H
HE40 Full		21255	37.61	-36.39	74	57.2	38.4	-3.29	54.7	-	-	P	H
CH 227		14170	48.04	-40.16	88.2	54.08	41.11	16.17	63.32	-	-	P	V
7085MHz		18000	59.09	-14.91	74	48.71	49	18.62	57.24	-	-	P	V
		18000	49.33	-4.67	54	38.95	49	18.62	57.24	-	-	A	V
		21255	36.34	-37.66	74	55.93	38.4	-3.29	54.7	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 8 - 6875~7125MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
802.11ax HE80 Full CH 215 7025MHz		5116.8	52.5	-21.5	74	40.75	31.8	9.96	30.01	236	43	P	H
		5116.8	42.27	-11.73	54	30.52	31.8	9.96	30.01	236	43	A	H
	*	7025	93.37	-	-	77.74	35.2	11.55	31.12	236	43	P	H
	*	7025	84.73	-	-	69.1	35.2	11.55	31.12	236	43	A	H
		7126.12	54.91	-33.29	88.2	38.67	35.76	11.64	31.16	236	43	P	H
		7144.84	45.7	-22.5	68.2	29.34	35.87	11.65	31.16	236	43	A	H
		5116.8	52.29	-21.71	74	40.54	31.8	9.96	30.01	100	11	P	V
		5116.8	42.35	-11.65	54	30.6	31.8	9.96	30.01	100	11	A	V
	*	7025	92.77	-	-	77.14	35.2	11.55	31.12	100	11	P	V
	*	7025	82.03	-	-	66.4	35.2	11.55	31.12	100	11	A	V
		7137	54.45	-33.75	88.2	38.14	35.82	11.65	31.16	100	11	P	V
		7141.32	45.64	-22.56	68.2	29.3	35.85	11.65	31.16	100	11	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
		13890	48.14	-40.06	88.2	54.68	40.55	16.04	63.13	-	-	P	H
		17984	58.17	-15.83	74	48.13	48.71	18.61	57.28	-	-	P	H
802.11ax		17984	48.3	-5.7	54	38.26	48.71	18.61	57.28	-	-	A	H
HE80 Full		20835	35.35	-38.65	74	55.36	38.16	-3.4	54.77	-	-	P	H
CH 199		13890	47.44	-40.76	88.2	53.98	40.55	16.04	63.13	-	-	P	V
6945MHz		17992	58.73	-15.27	74	48.52	48.86	18.61	57.26	-	-	P	V
		17992	48.85	-5.15	54	38.64	48.86	18.61	57.26	-	-	A	V
		20835	36.58	-37.42	74	55.59	38.16	-3.4	54.77	-	-	P	V
		14050	48.16	-40.04	88.2	54.57	40.85	16.12	63.38	-	-	P	H
		18000	58.31	-15.69	74	47.93	49	18.62	57.24	-	-	P	H
802.11ax		18000	48.24	-5.76	54	37.86	49	18.62	57.24	-	-	A	H
HE80 Full		21075	35.14	-38.86	74	55.12	38.05	-3.33	54.7	-	-	P	H
CH 215		14050	48.36	-39.84	88.2	54.77	40.85	16.12	63.38	-	-	P	V
7025MHz		17984	59.11	-14.89	74	49.07	48.71	18.61	57.28	-	-	P	V
		17984	49.33	-4.67	54	39.29	48.71	18.61	57.28	-	-	A	V
		21075	35.39	-38.61	74	55.37	38.05	-3.33	54.7	-	-	P	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.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 8 - 6875~7125MHz

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

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
802.11ax HE160 Full CH 207 6985MHz		5098.2	53.01	-20.99	74	41.28	31.8	9.94	30.01	239	46	P	H
		5098.2	42.15	-11.85	54	30.42	31.8	9.94	30.01	239	46	A	H
	*	6985	95.06	-	-	79.6	35.04	11.52	31.1	239	46	P	H
	*	6985	84.78	-	-	69.32	35.04	11.52	31.1	239	46	A	H
		7133.48	56	-32.2	88.2	39.72	35.8	11.64	31.16	239	46	P	H
		7137	47.11	-21.09	68.2	30.8	35.82	11.65	31.16	239	46	A	H
		5085.8	51.79	-22.21	74	40.1	31.77	9.93	30.01	100	12	P	V
		5085.8	42.26	-11.74	54	30.57	31.77	9.93	30.01	100	12	A	V
	*	6985	92.22	-	-	76.76	35.04	11.52	31.1	100	12	P	V
	*	6985	81.79	-	-	66.33	35.04	11.52	31.1	100	12	A	V
		7188.52	54.3	-33.9	88.2	37.74	36.05	11.69	31.18	100	12	P	V
		7142.44	46.19	-22.01	68.2	29.85	35.85	11.65	31.16	100	12	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 8 - 6875~7125MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 7+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (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)
802.11ax HE160 Full CH 207 6985MHz		13970	49.24	-38.96	88.2	55.74	40.74	16.09	63.33	-	-	P	H
		18000	58.74	-15.26	74	48.36	49	18.62	57.24	-	-	P	H
		18000	48.88	-5.12	54	38.5	49	18.62	57.24	-	-	A	H
		20955	34.97	-39.03	74	55.08	37.97	-3.36	54.72	-	-	P	H
		13970	49.16	-39.04	88.2	55.66	40.74	16.09	63.33	-	-	P	V
		17992	58.02	-15.98	74	47.81	48.86	18.61	57.26	-	-	P	V
		17992	48.16	-5.84	54	37.95	48.86	18.61	57.26	-	-	A	V
		20955	35.24	-38.76	74	55.35	37.97	-3.36	54.72	-	-	P	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. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE80 Full LF		40.67	25.34	-14.66	40	38	19.12	0.78	32.56	-	-	P	H
		98.87	30.77	-12.73	43.5	46.25	15.71	1.31	32.5	-	-	P	H
		168.71	25.04	-18.46	43.5	40.01	15.7	1.82	32.49	-	-	P	H
		674.08	35.34	-10.66	46	37.98	26.26	3.5	32.4	-	-	P	H
		719.67	38.41	-7.59	46	40.39	26.85	3.62	32.45	-	-	P	H
		899.12	38.96	-7.04	46	37.59	28.9	4.1	31.63	-	-	P	H
													H
													H
													H
													H
													H
													H
		40.67	29.93	-10.07	40	42.59	19.12	0.78	32.56	-	-	P	V
		81.41	24.89	-15.11	40	42.62	13.56	1.2	32.49	-	-	P	V
		95.96	24.47	-19.03	43.5	40.21	15.45	1.29	32.48	-	-	P	V
		166.77	20.51	-22.99	43.5	35.23	15.95	1.82	32.49	-	-	P	V
		674.08	36.33	-9.67	46	38.97	26.26	3.5	32.4	-	-	P	V
		896.21	39.24	-6.76	46	37.93	28.87	4.09	31.65	-	-	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 with sufficient margin against limit line or noise floor only.

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 **over limit** 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	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
7+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

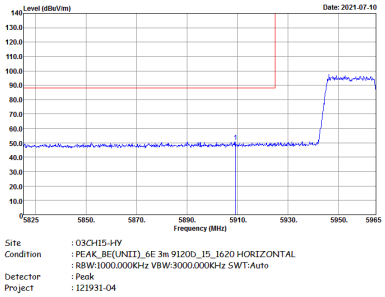
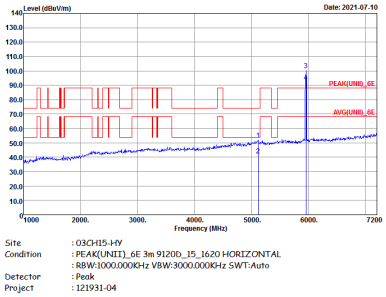
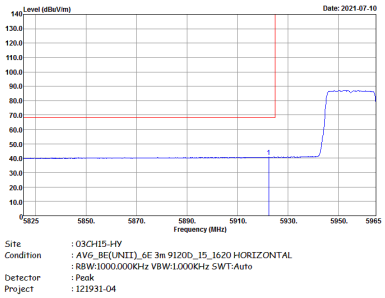
Both peak and average measured complies with the limit line, so test result is "PASS".

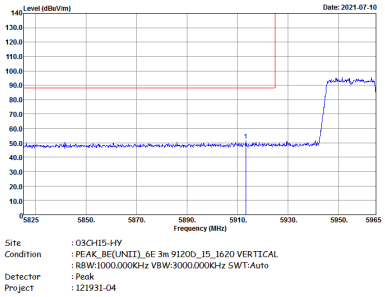
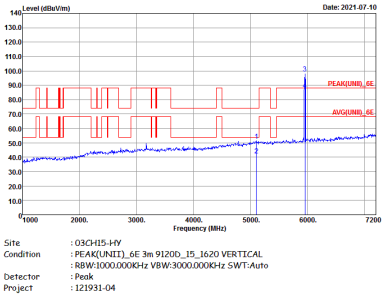
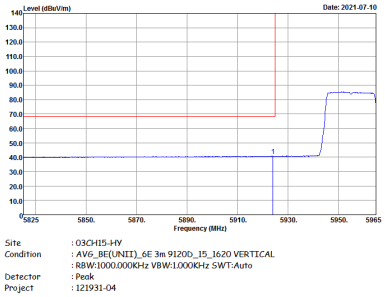
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	**Temperature :**	24~26°C
		Relative Humidity :	48~55%

Band 5 - 5925~6425MHz

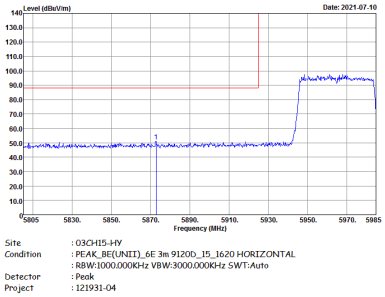
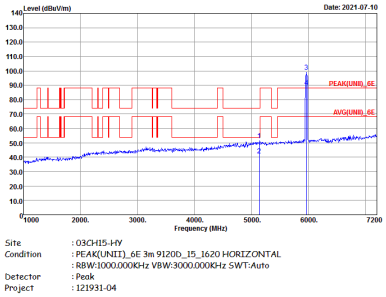
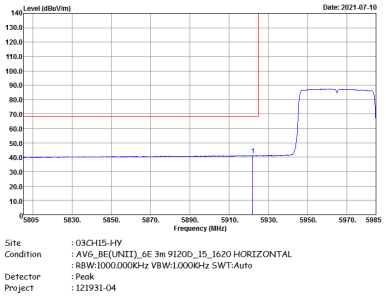
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

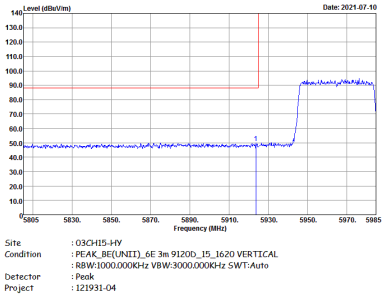
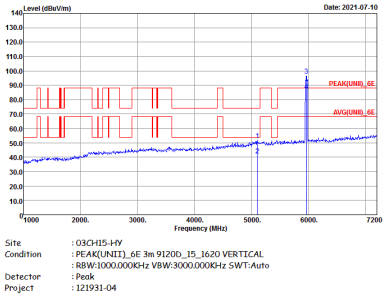
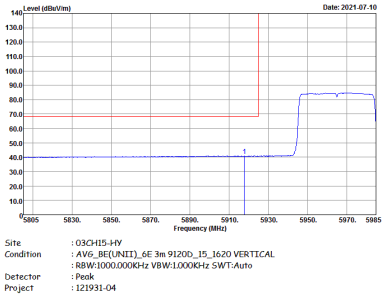
WIFI	5955 MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
7+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	5955 MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
7+3	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 - 5925~6425MHz

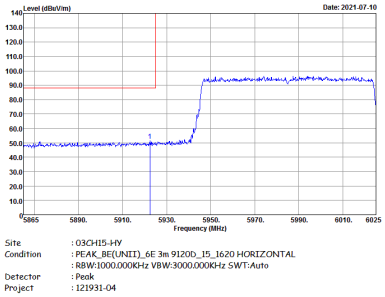
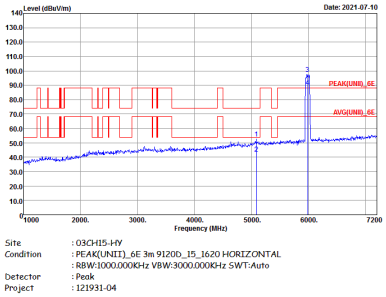
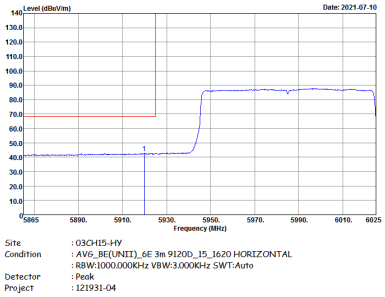
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

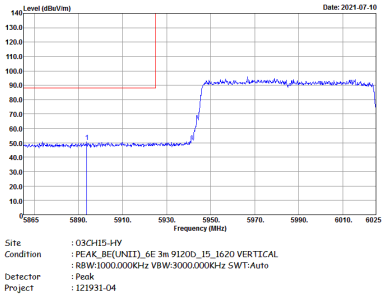
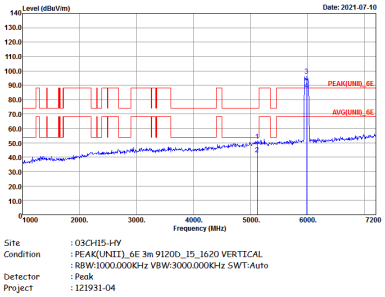
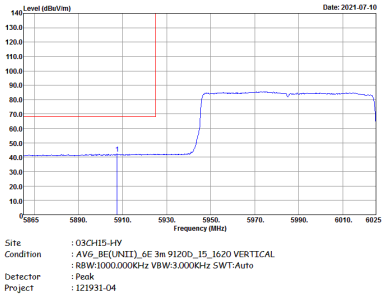
WIFI	5965 MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965 MHz	
7+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	5965 MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 5965 MHz	
7+3	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 - 5925~6425MHz

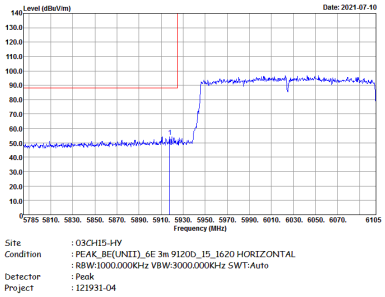
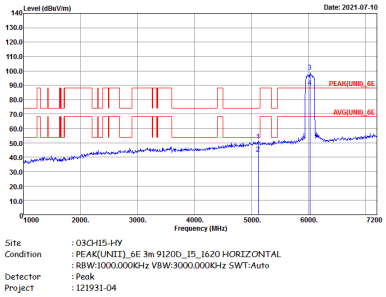
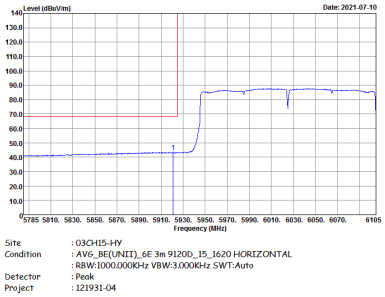
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

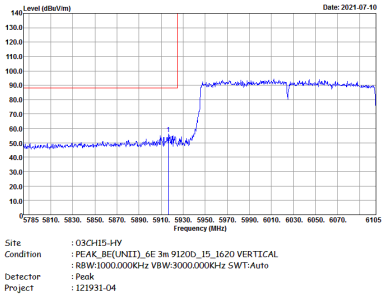
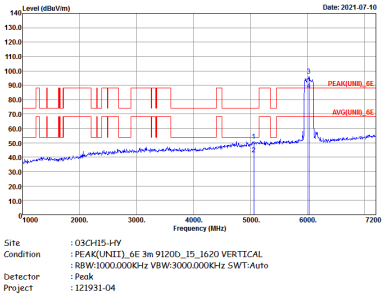
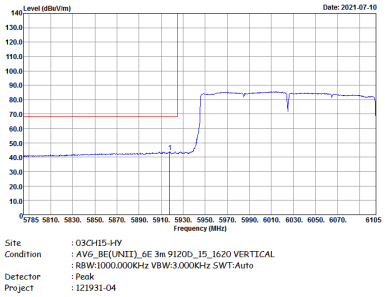
WIFI	5985 MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH7 5985MHz	
7+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	5985 MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH7 5985MHz	
7+3	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 - 5925~6425MHz

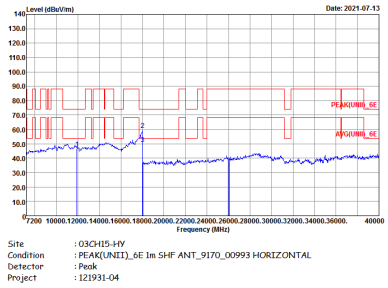
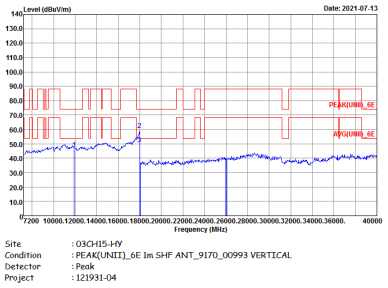
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

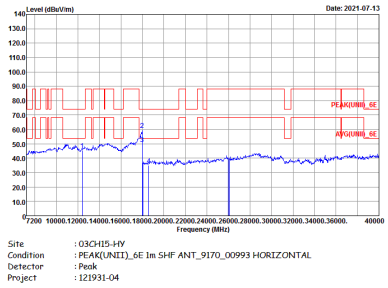
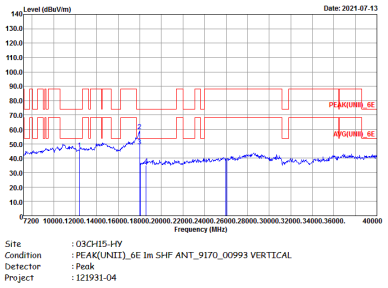
WIFI	5985 MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
7+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

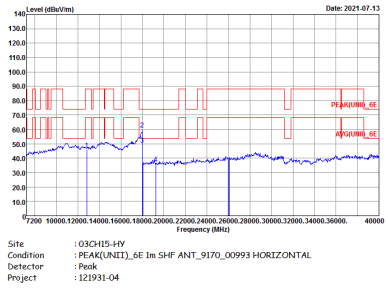
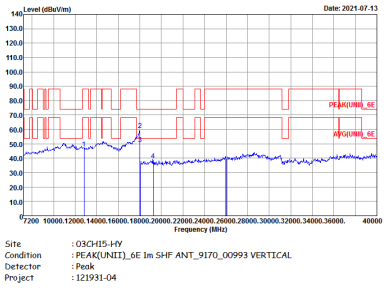
WIFI	5985 MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
7+3	Vertical	Fundamental
Peak		
Avg.		Left blank

Band 5 - 5925~6425MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

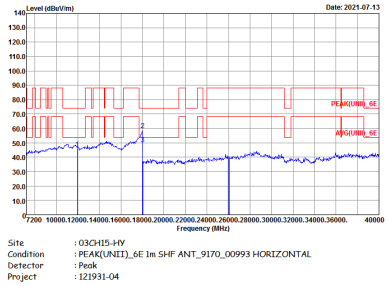
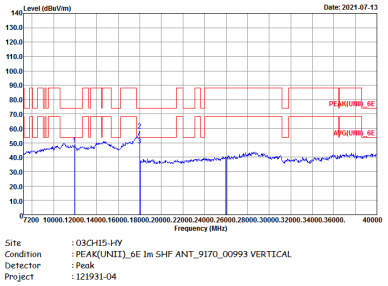
WIFI	5955 MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 5955MHz	
7+3	Horizontal	Vertical
Peak Avg.		

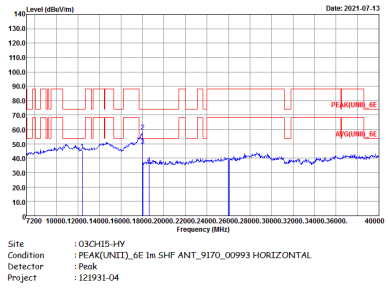
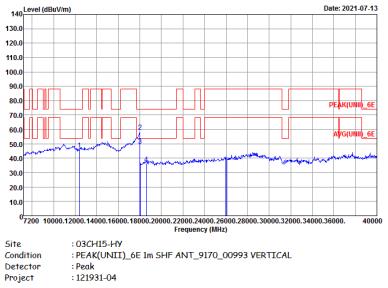
WIFI	6195MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH49 6195MHz	
7+3	Horizontal	Vertical
Peak Avg.		

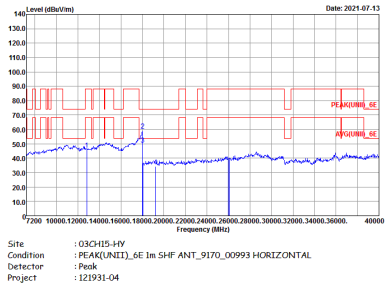
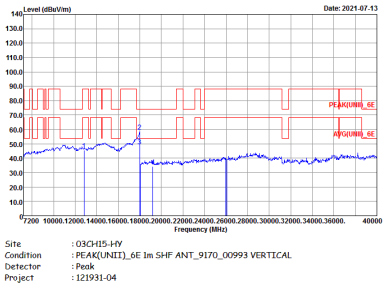
WIFI	6415MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH93 6415MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 5 - 5925~6425MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

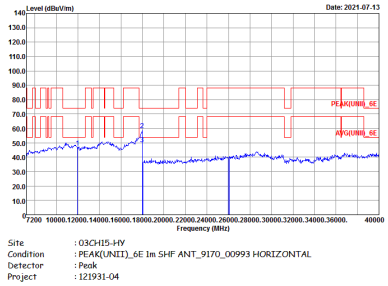
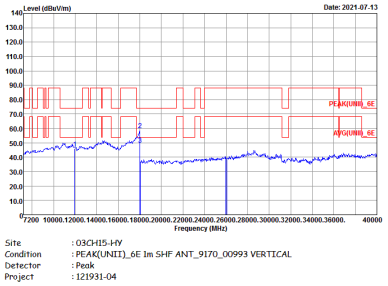
WIFI	5965 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH3 5965MHz	
7+3	Horizontal	Vertical
Peak Avg.		

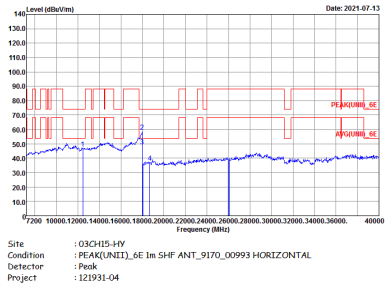
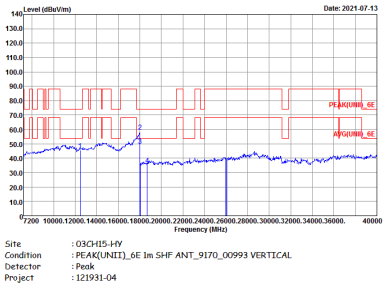
WIFI	6205 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH51 6205 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

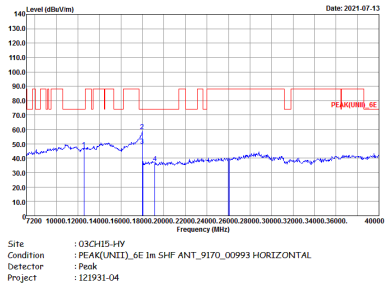
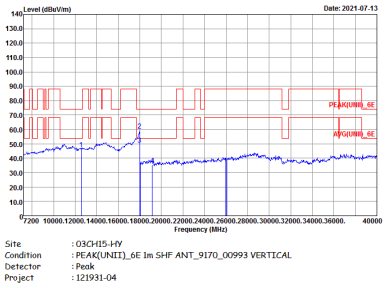
WIFI	6405 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH91 6405 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 5 - 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

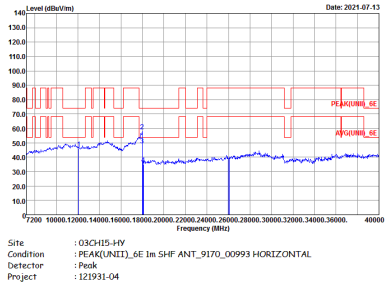
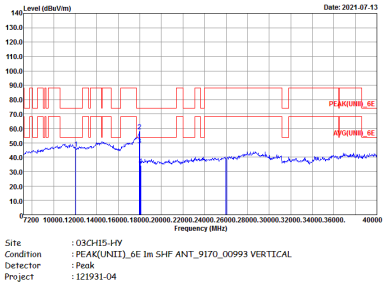
WIFI	5985MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH7 5985MHz	
7+3	Horizontal	Vertical
Peak Avg.		

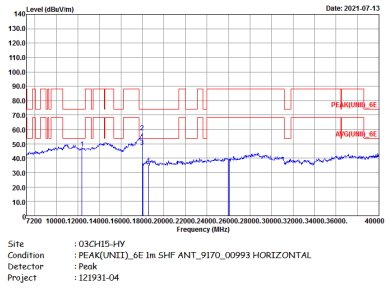
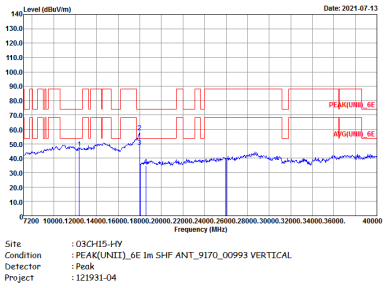
WIFI	6225MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full Ch55 6225MHz	
7+3	Horizontal	Vertical
Peak Avg.		

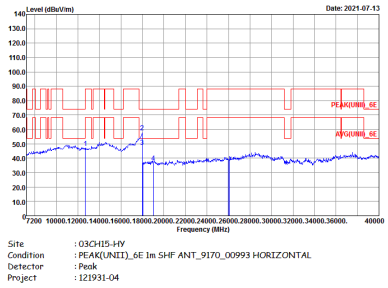
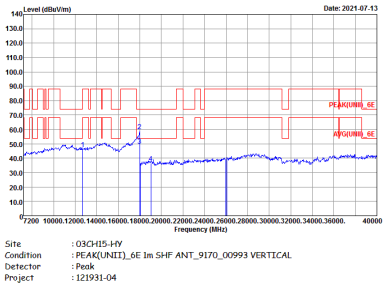
WIFI	6285 MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH87 6285MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 5 - 5925~6425MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

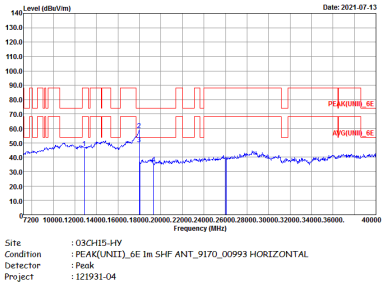
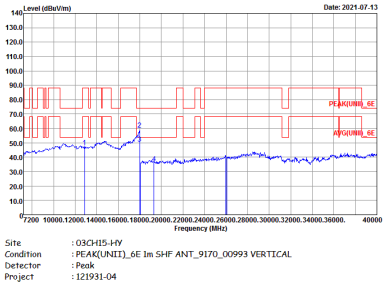
WIFI	6025 MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH15 6025MHz	
7+3	Horizontal	Vertical
Peak Avg.		

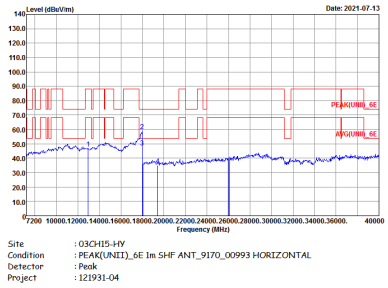
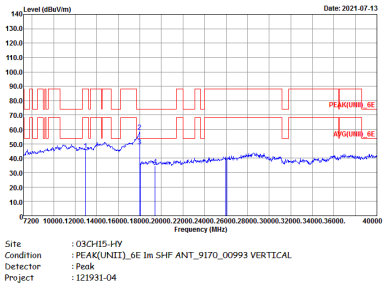
WIFI	6185 MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH47 6185MHz	
7+3	Horizontal	Vertical
Peak Avg.		

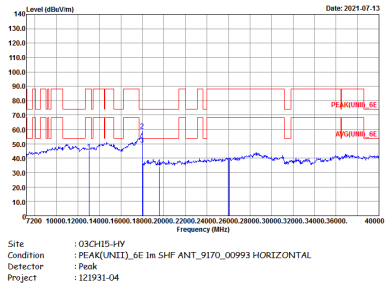
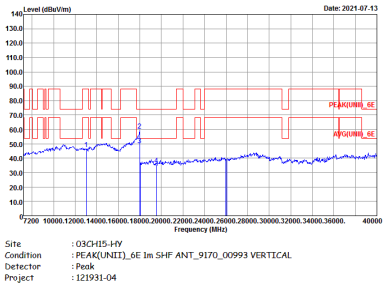
WIFI	6345 MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 6 6425~6525MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

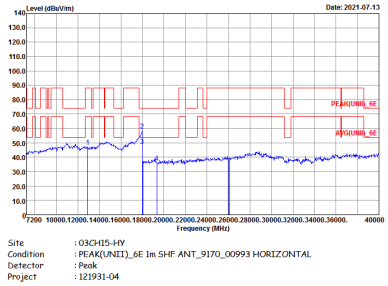
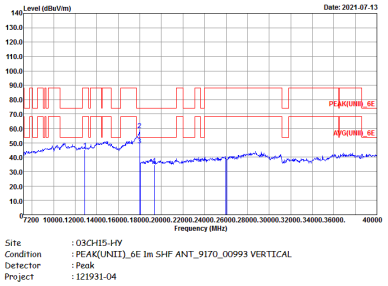
WIFI	6435MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH97 6435MHz	
7+3	Horizontal	Vertical
Peak Avg.		

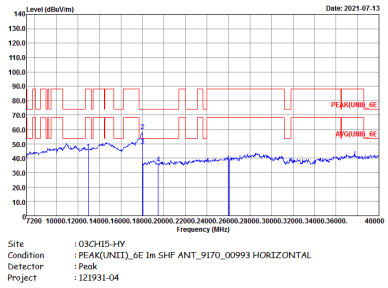
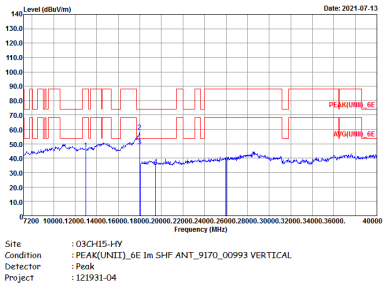
WIFI	6475MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH105 6475MHz	
7+3	Horizontal	Vertical
Peak Avg.		

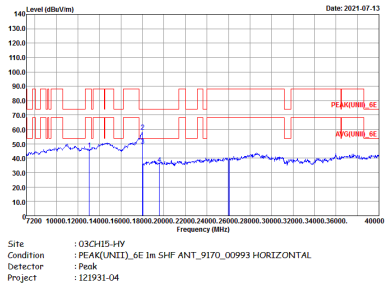
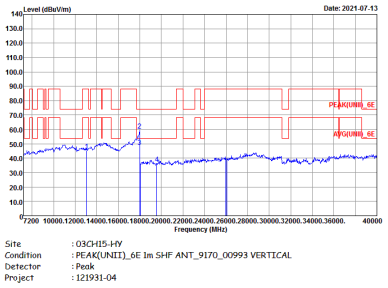
WIFI	6515MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH113 6515MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 6 6425~6525MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

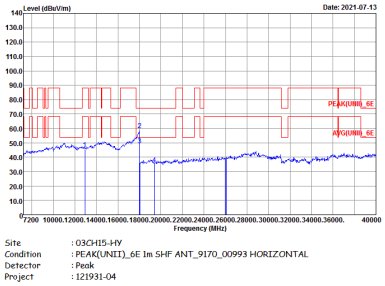
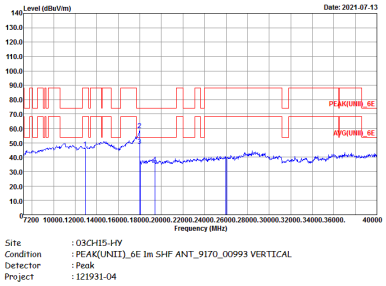
WIFI	6445 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH99 6445 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

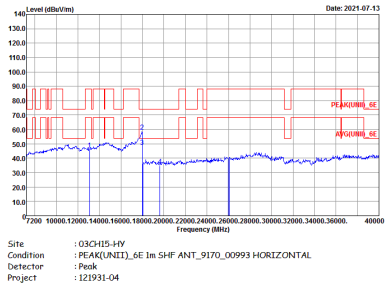
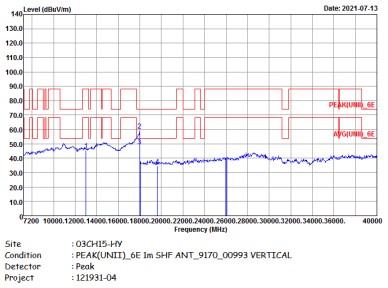
WIFI	6485 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH107 6485 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

WIFI	6525 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH115 6525 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 6 6425~6525MHz

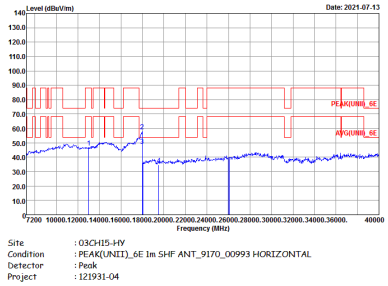
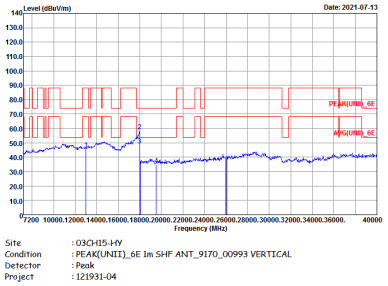
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	6465MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH103 6465MHz	
7+3	Horizontal	Vertical
Peak Avg.		

WIFI	6545MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH119 6545MHz	
7+3	Horizontal	Vertical
Peak Avg.		

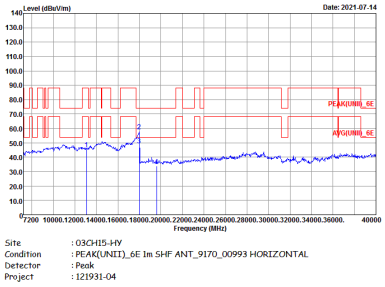
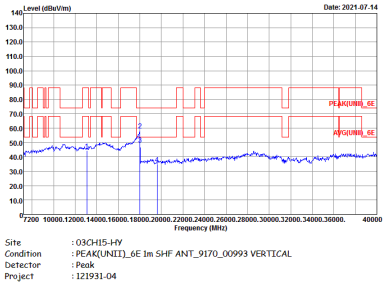
Band 6 6425~6525MHz

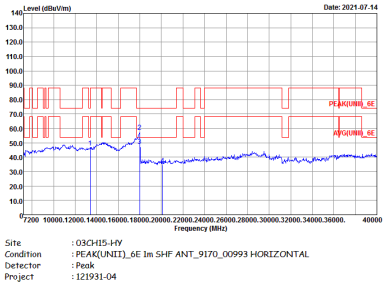
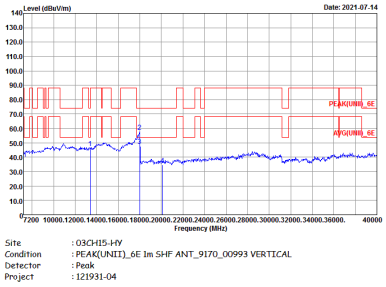
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

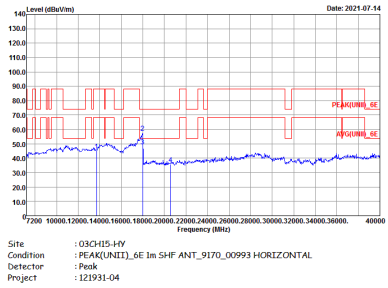
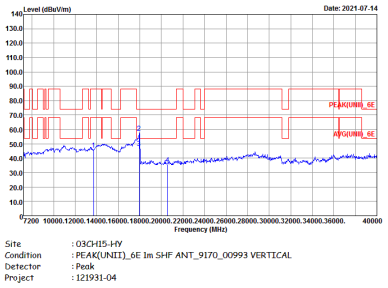
WIFI	6505 MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH111 6505 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

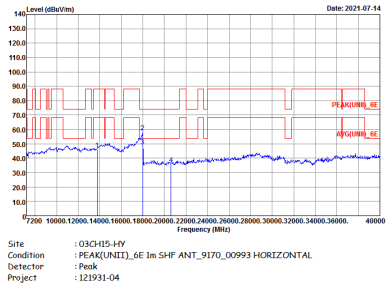
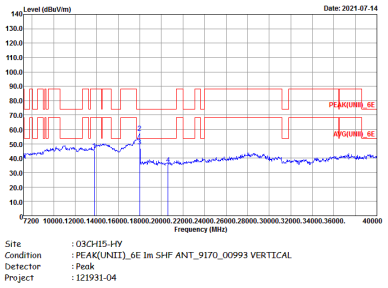
Band 7 6525~6875MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	6535MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH117 6535MHz	
7+3	Horizontal	Vertical
Peak Avg.		

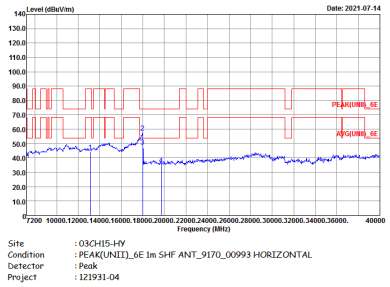
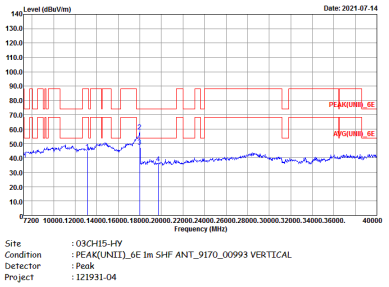
WIFI	6695MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 6695MHz	
7+3	Horizontal	Vertical
Peak Avg.		

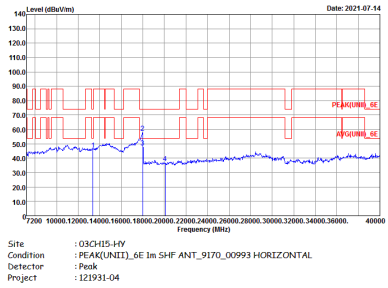
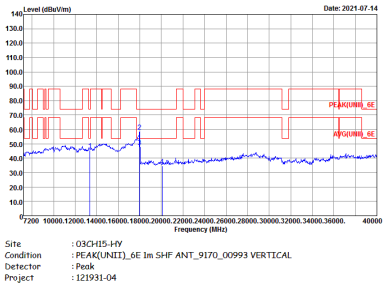
WIFI	6855MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH181 6855MHz	
7+3	Horizontal	Vertical
Peak Avg.		

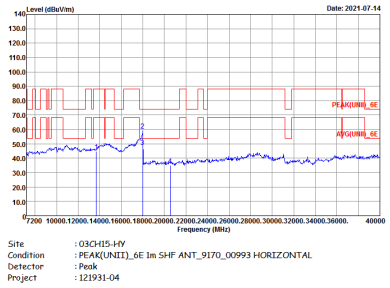
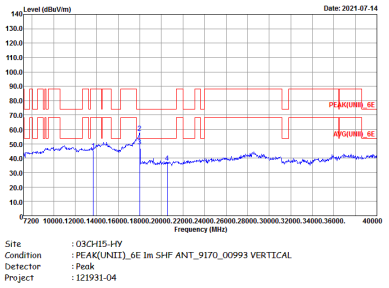
WIFI	6875MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH185 6875MHz	
7+3	Horizontal	Vertical
Peak Avg.		

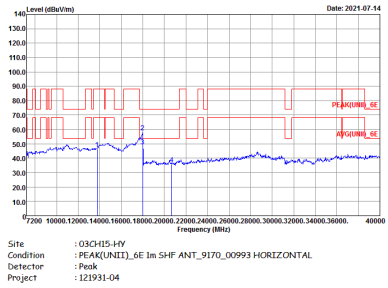
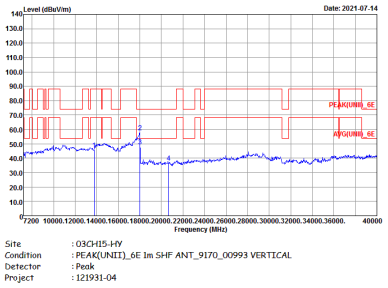
Band 7 6525~6875MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	6565 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH123 6565 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

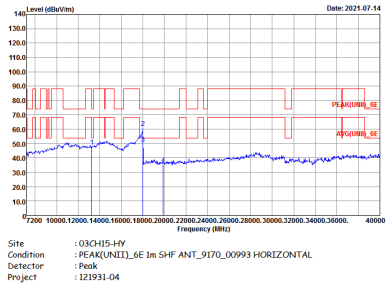
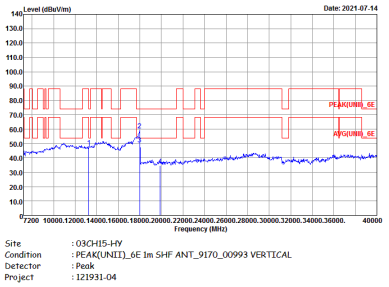
WIFI	6685 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH147 6685 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

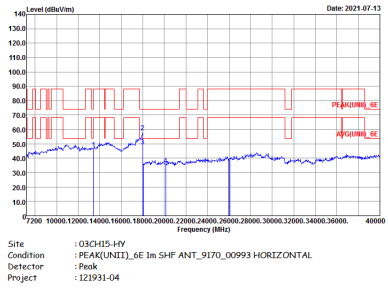
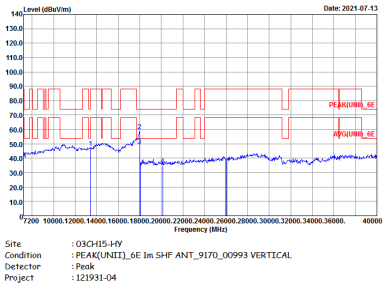
WIFI	6845 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH179 6845 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

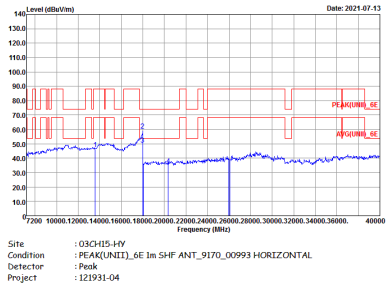
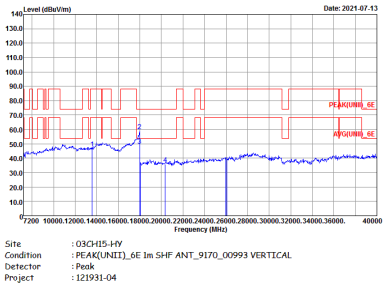
WIFI	6885 MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH187 6885 MHz	
7+3	Horizontal	Vertical
Peak Avg.		

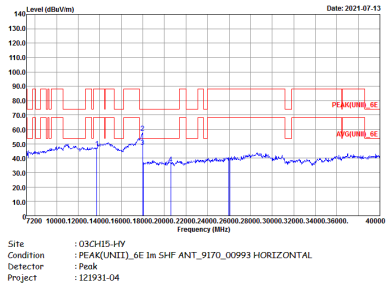
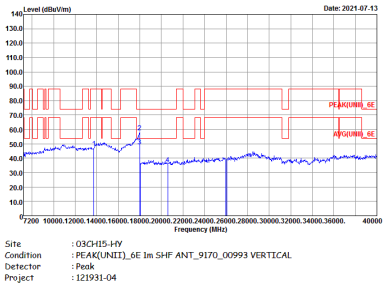
Band 7 6525~6875MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	6625MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH135 6625MHz	
7+3	Horizontal	Vertical
Peak Avg.		

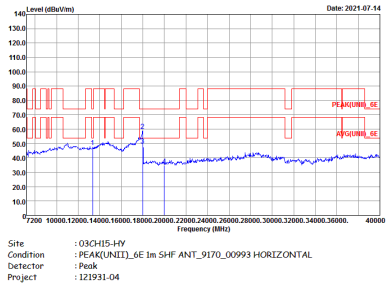
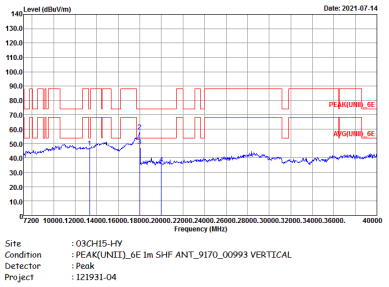
WIFI	6705MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH151 6705MHz	
7+3	Horizontal	Vertical
Peak Avg.		

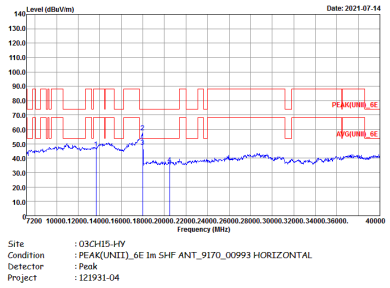
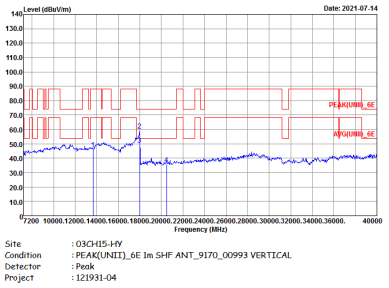
WIFI	6785MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH167 6785MHz	
7+3	Horizontal	Vertical
Peak Avg.		

WIFI	6865MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH183 6865MHz	
7+3	Horizontal	Vertical
Peak Avg.		

Band 7 6525~6875MHz

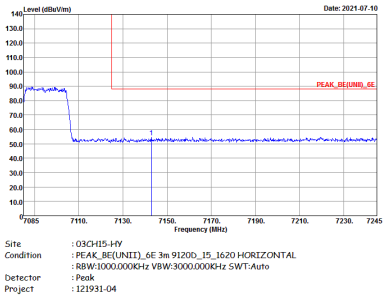
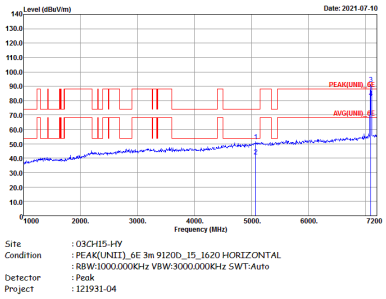
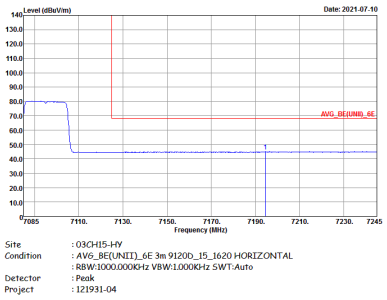
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

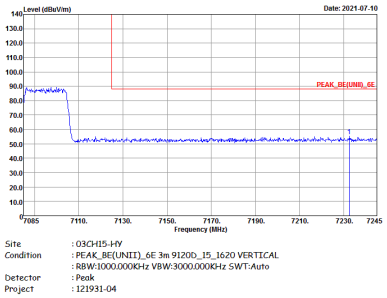
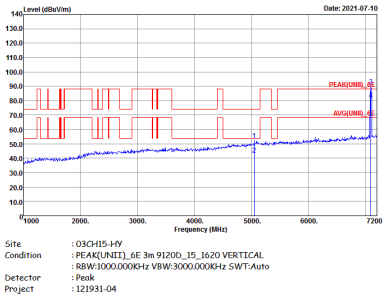
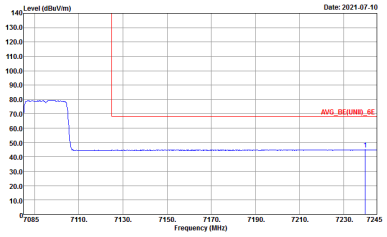
WIFI	6665 MHZ Harmonic @ 3m	
ANT	802.11ax HE160 Full CH143 6665 MHZ	
7+3	Horizontal	Vertical
Peak Avg.		

WIFI	6825 MHZ Harmonic @ 3m	
ANT	802.11ax HE160 Full CH175 6825 MHZ	
7+3	Horizontal	Vertical
Peak Avg.		

Band 8 - 6875~7125MHz

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

WIFI	7095 MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
7+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	7095 MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH229 7095MHz	
7+3	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(UNII)_6E 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 121931-04	 Site : 03CH15-HY Condition : PEAK(UNII)_6E 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 121931-04
Avg.	 Site : 03CH15-HY Condition : AVG_BE(UNII)_6E 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 121931-04	Left blank