

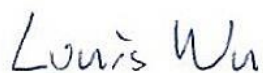


FCC RADIO TEST REPORT

FCC ID : A5MLM21C81
Equipment : Mobile Phone
Brand Name : Lenovo
Model Name : Lenovo L70081
Applicant : LENOVO (BEIJING) LIMITED
201-H2-6, Floor 2, Building 2, No.6
Shangdi West Road, Haidian District,
Beijing, China 100085
Manufacturer : Lenovo PC HK Limited
23/F, Lincoln House, Taikoo
Place 979 King's Road, Quarry Bay,
Hong Kong, P.R. China
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jan. 25, 2021 and testing was started from Feb. 01, 2021 and completed on May 04, 2021. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FR112124-02E	01	Initial issue of report	Jun. 07, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.19 dB at 5148.460 MHz and 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 5.69 dB at 0.704 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Remark: The test report by adding Wi-Fi 6e Function. Since the device RF and antenna design is the same and test result is not affected, except AC Conducted Emissions is carrying out, FR112124-02E report reuse test data from the TR112124E report

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Keven Cheng

Report Producer: Cindy Liu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Lenovo
Model Name	Lenovo L70081
FCC ID	A5MLM21C81
EUT supports Radios application	GSM/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency	5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	MIMO <Ant. 6+7> <5180 MHz ~ 5240 MHz> 802.11a: 19.94 dBm / 0.0987 W 802.11n HT20: 19.54 dBm / 0.0900 W 802.11n HT40: 19.64 dBm / 0.0921 W 802.11ac VHT20: 19.64 dBm / 0.0921 W 802.11ac VHT40: 19.74 dBm / 0.0943 W 802.11ac VHT80: 12.21 dBm / 0.0167 W 802.11ac VHT160: 15.06 dBm / 0.0321 W 802.11ax HE20: 19.74 dBm / 0.0943 W 802.11ax HE40: 19.84 dBm / 0.0964 W 802.11ax HE80: 12.31 dBm / 0.0170 W 802.11ax HE160: 15.16 dBm / 0.0328 W <5260 MHz ~ 5320 MHz> 802.11a: 19.93 dBm / 0.0984 W 802.11n HT20: 19.71 dBm / 0.0935 W 802.11n HT40: 19.77 dBm / 0.0948 W 802.11ac VHT20: 19.81 dBm / 0.0957 W 802.11ac VHT40: 19.87 dBm / 0.0970 W 802.11ac VHT80: 18.68 dBm / 0.0739 W 802.11ac VHT160: 15.06 dBm / 0.0321 W 802.11ax HE20: 19.91 dBm / 0.0979 W 802.11ax HE40: 19.97 dBm / 0.0992 W 802.11ax HE80: 18.78 dBm / 0.0756 W 802.11ax HE160: 15.16 dBm / 0.0328 W

Product Specification subjective to this standard	
Maximum Output Power to Antenna	<5500 MHz ~ 5720 MHz> 802.11a: 19.91 dBm / 0.0981 W 802.11n HT20: 19.76 dBm / 0.0946 W 802.11n HT40: 19.77 dBm / 0.0948 W 802.11ac VHT20: 19.86 dBm / 0.0968 W 802.11ac VHT40: 19.87 dBm / 0.0970 W 802.11ac VHT80: 19.86 dBm / 0.0969 W 802.11ac VHT160: 15.86 dBm / 0.0386 W 802.11ax HE20: 19.96 dBm / 0.0991 W 802.11ax HE40: 19.97 dBm / 0.0993 W 802.11ax HE80: 19.96 dBm / 0.0991 W 802.11ax HE160: 15.96 dBm / 0.0395 W
99% Occupied Bandwidth	MIMO <Ant. 6> 802.11a: 16.43 MHz 802.11ax HE20: 18.93 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 78.28 MHz 802.11ax HE160: 156.80 MHz MIMO <Ant. 7> 802.11a: 16.48 MHz 802.11ax HE20: 18.98 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 78.16 MHz 802.11ax HE160: 156.80 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> Ant. 6 : PIFA Antenna with gain 2.0 dBi Ant. 7 : PIFA Antenna with gain 1.0 dBi <5260 MHz ~ 5320 MHz> Ant. 6 : PIFA Antenna with gain 0 dBi Ant. 7 : PIFA Antenna with gain 1.0 dBi <5500 MHz ~ 5700 MHz > Ant. 6 : PIFA Antenna with gain 0.5 dBi Ant. 7 : PIFA Antenna with gain 1.0 dBi
Type of Modulation	802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. MIMO Ant. 6+7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan
Test Site No.	Sporton Site No.
	CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan
Test Site No.	Sporton Site No.
	TH05-HY, 03CH16-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel		Freq. (MHz)	
5150-5350 MHz	50 [@]		5250	
5470-5725 MHz	114 [@]		5570	

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel in "@" were 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps, Nss = 2
802.11n HT20 (Covered by HE20)	MCS0, Nss = 2
802.11n HT40 (Covered by HE40)	MCS0, Nss = 2
802.11ac VHT20 (Covered by HE20)	MCS0, Nss = 2
802.11ac VHT40 (Covered by HE40)	MCS0, Nss = 2
802.11ac VHT80 (Covered by HE80)	MCS0, Nss = 2
802.11ac VHT160 (Covered by HE160)	MCS0, Nss = 2
802.11ax HE20	MCS0, Nss = 2
802.11ax HE40	MCS0, Nss = 2
802.11ax HE80	MCS0, Nss = 2
802.11ax HE160	MCS0, Nss = 2

Test Cases	
AC Conducted Emission	Mode 1: GSM850 Link + Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Port 1) (Charging from Adapter (Port 1)) + USB Cable (Port 2) (Data Link with Notebook) (Read) + SIM 1
Remark: Data Link with Notebook means data application transferred mode between EUT and Notebook.	

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

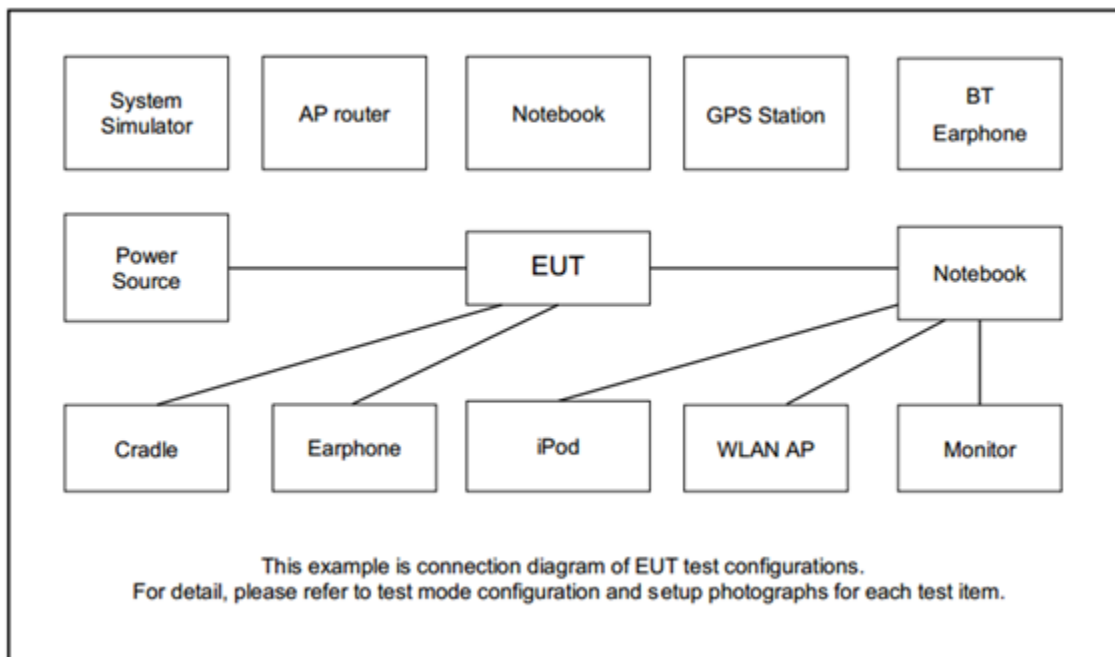
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160	5150-5350 MHz		5470-5725MHz
	802.11ax HE160		802.11ax HE160
Ch. #	50		114

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	iPod	Apple	A1285	DoC	Shielded, 1.0m	N/A
5.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT4.0.00158.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

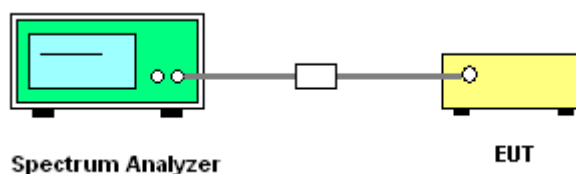
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

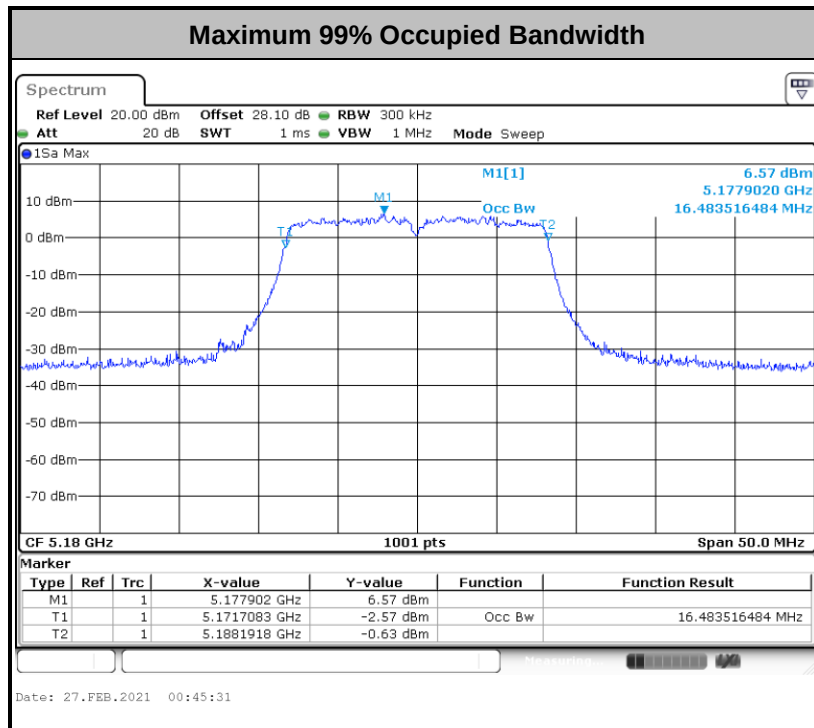
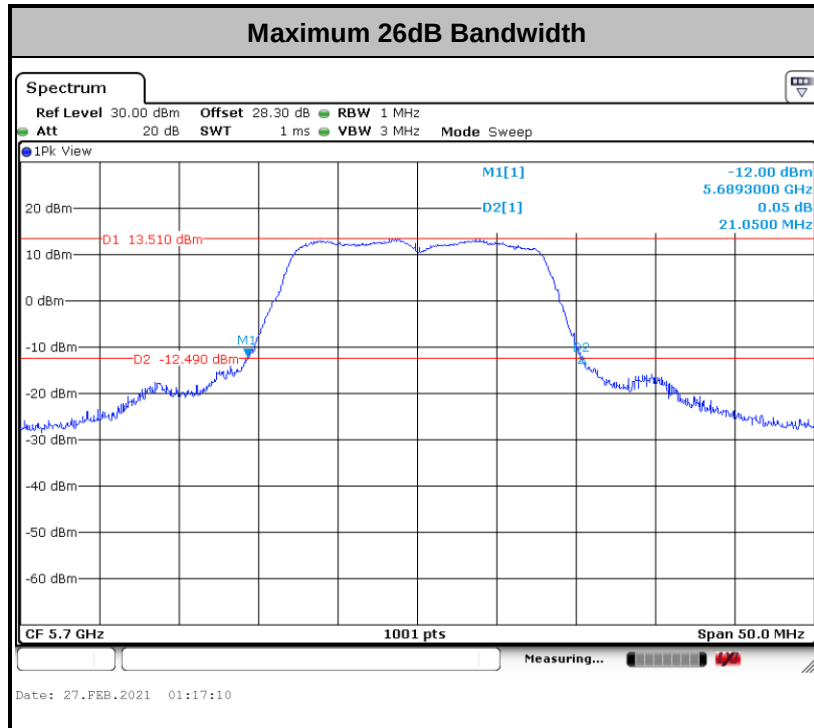
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup

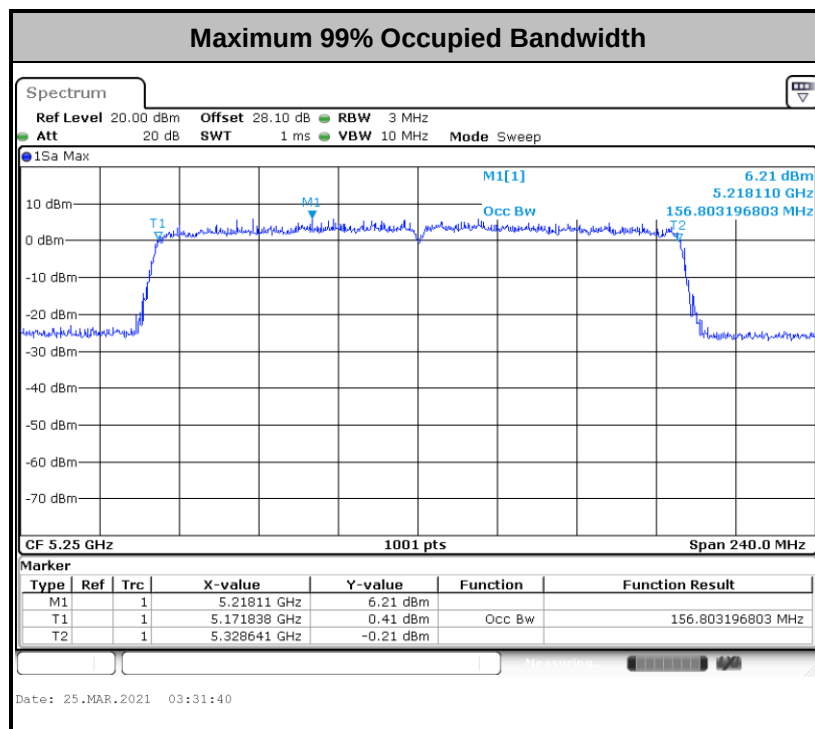
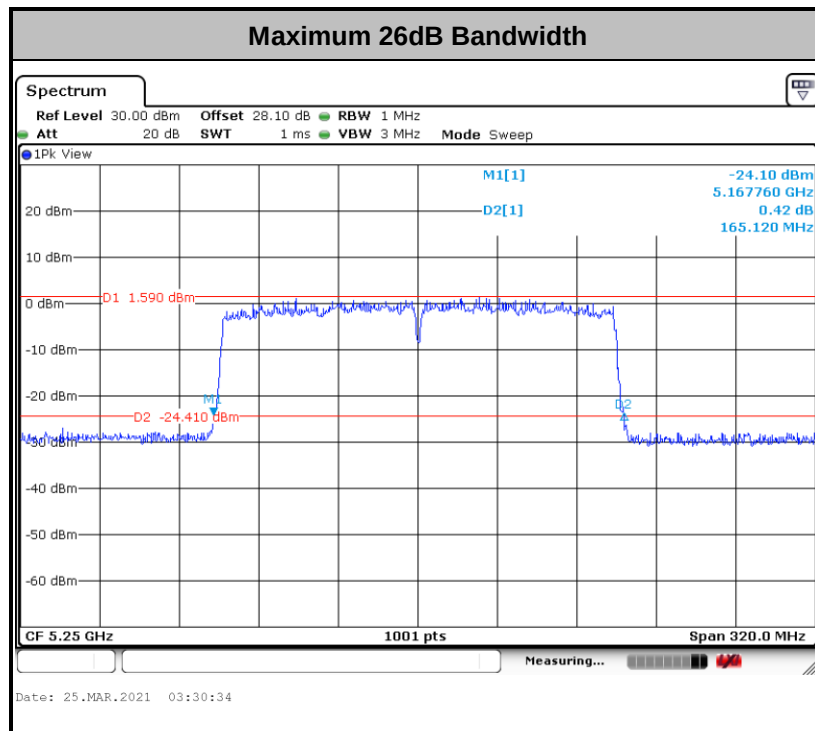


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



<For 802.11ax Mode>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

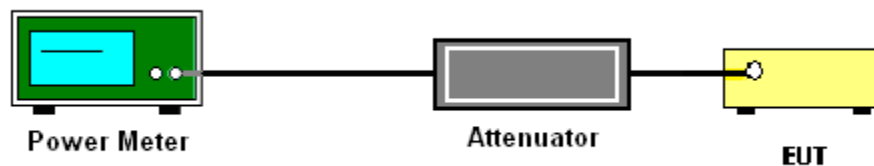
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

Method SA-3

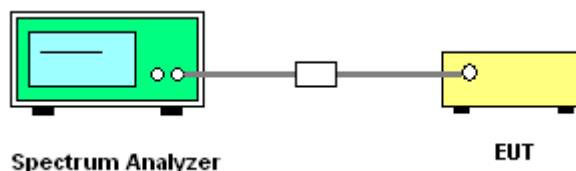
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ 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.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

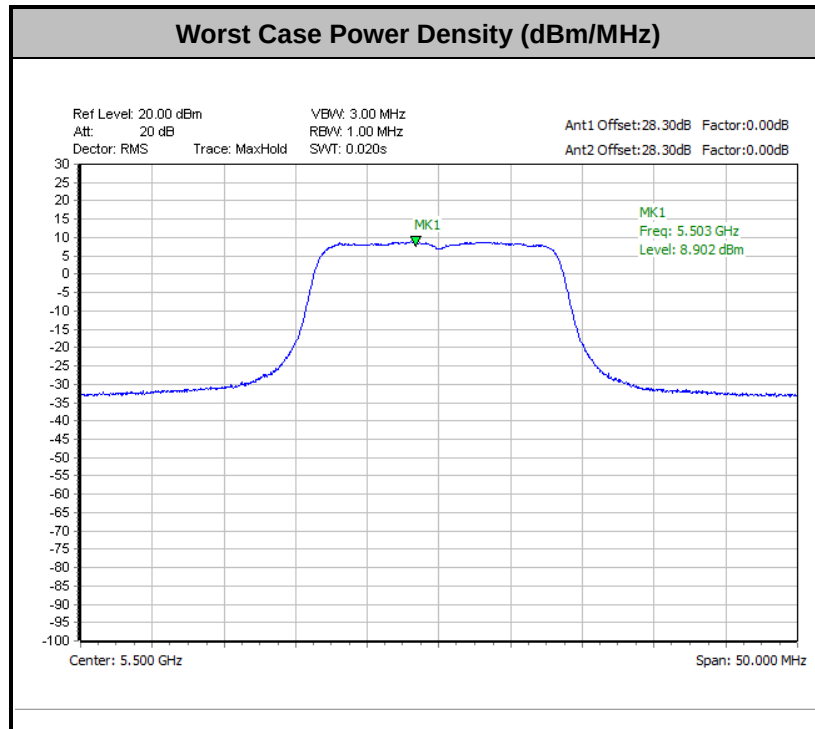
The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup

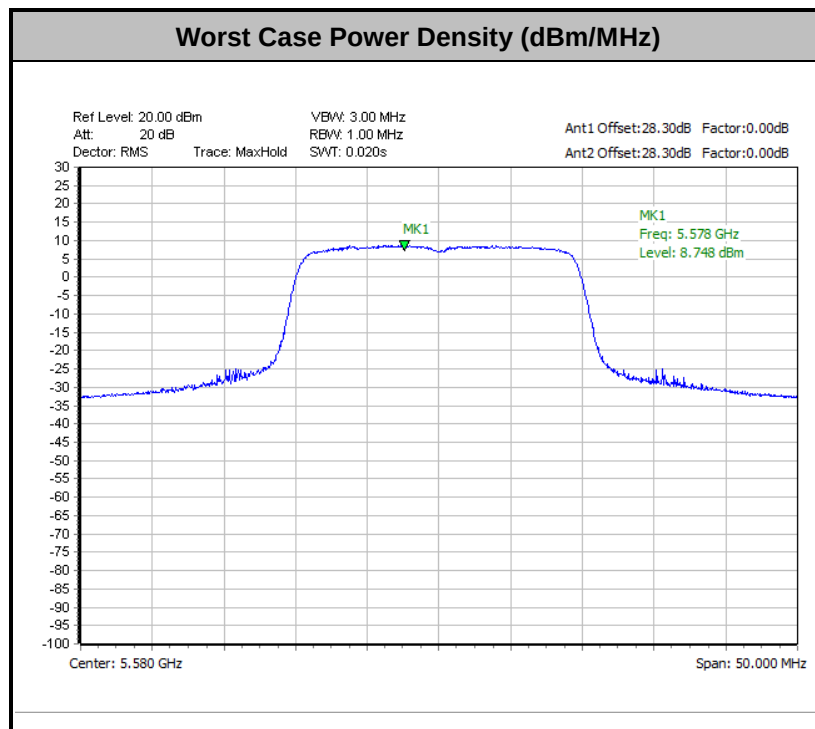


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



<For 802.11ax Mode>



3.4 Unwanted Emissions Measurement

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

3.4.2 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (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.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.3 Measuring Instruments

See list of measuring equipment of this test report.

3.4.4 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 1000 MHz

- 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 $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

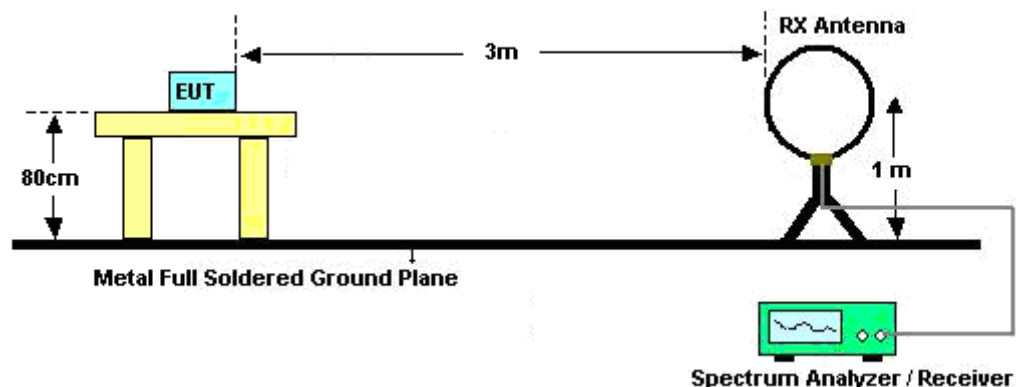
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

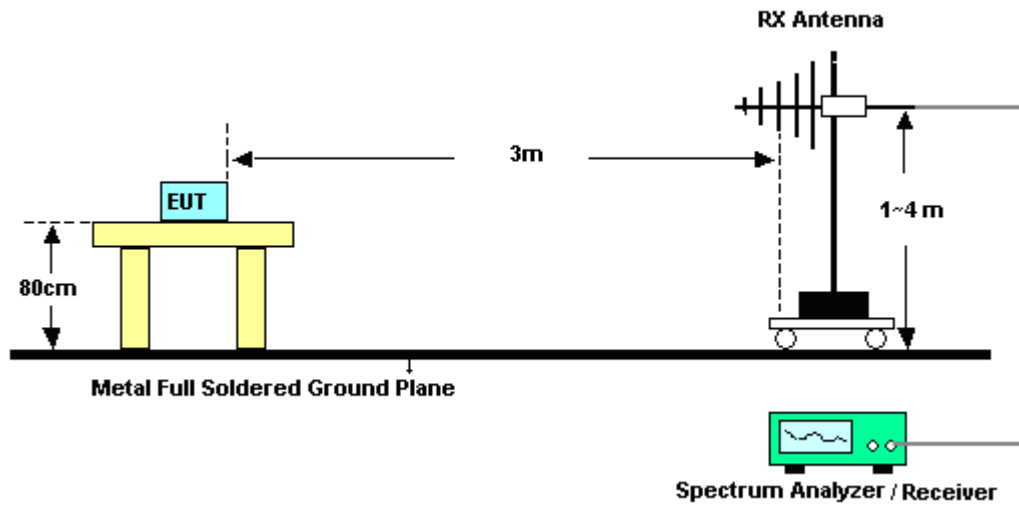
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.5 Test Setup

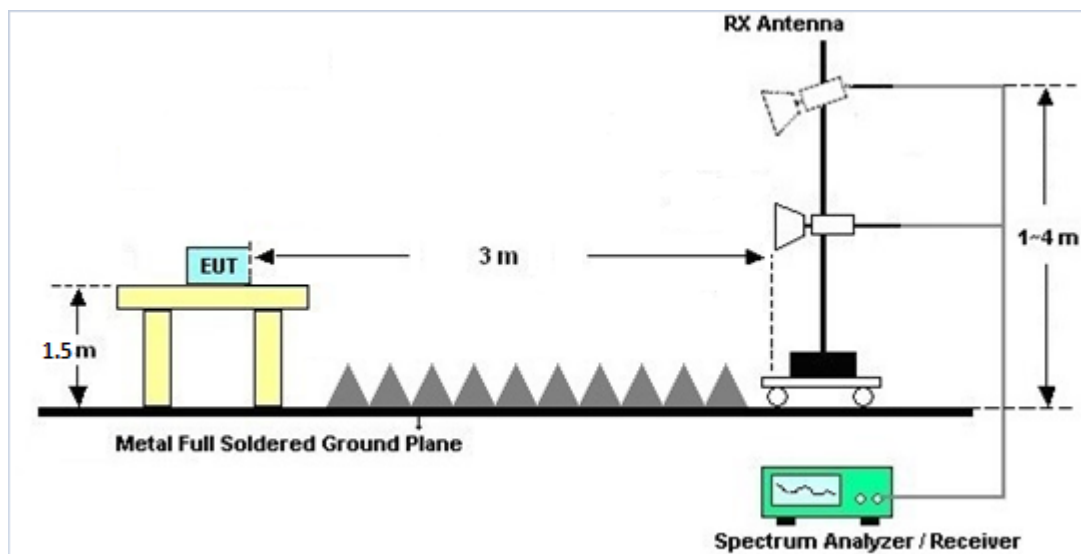
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test above 1GHz



**3.4.6 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 a comparison data 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.

3.4.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.8 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 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 (dB μ V)	
	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.

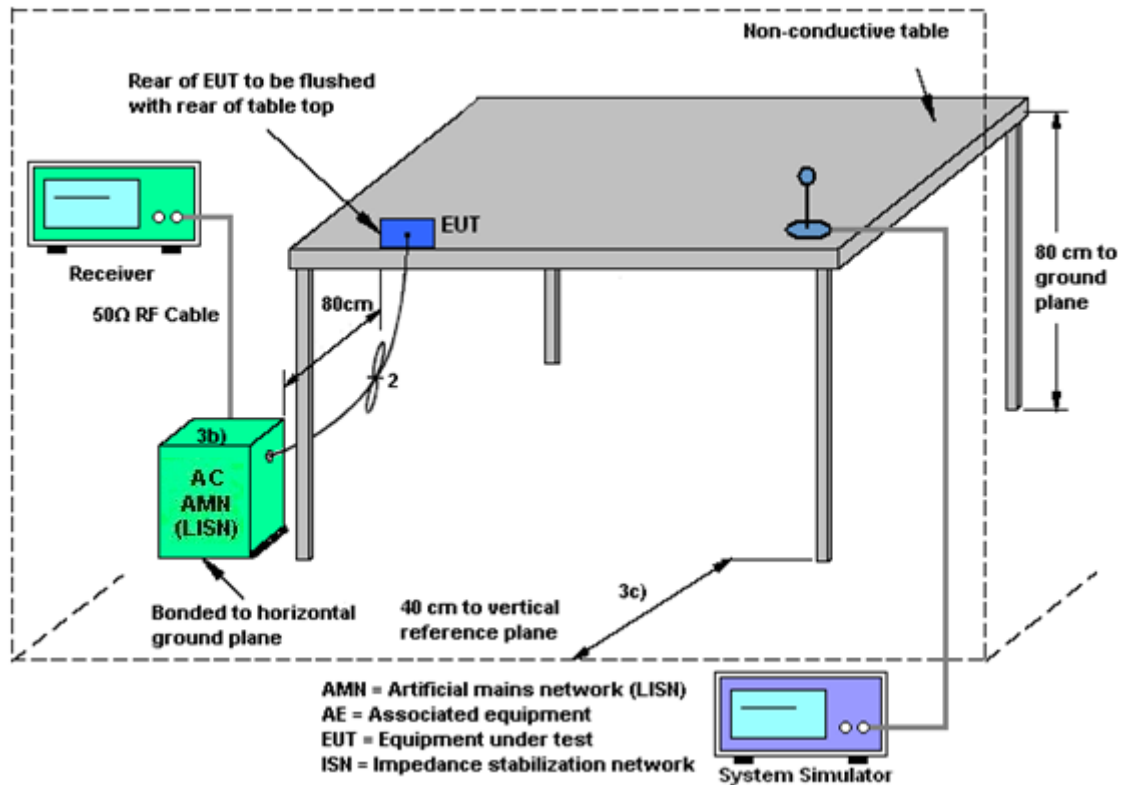
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 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 shall 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.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)a)ii).

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

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 6 (dBi)	Ant. 7 (dBi)				
Band I	-2.00	1.00	1.00	1.00	0.00	0.00
Band II	0.00	1.00	1.00	1.00	0.00	0.00
Band III	0.50	1.00	1.00	1.00	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Feb. 11, 2021~ Mar. 22, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Feb. 11, 2021~ Mar. 22, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	Feb. 11, 2021~ Mar. 22, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz ~40GHz	May 22, 2020	Feb. 11, 2021~ Mar. 22, 2021	May 21, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Feb. 11, 2021~ Mar. 22, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	Feb. 11, 2021~ Mar. 22, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 10, 2020	Feb. 11, 2021~ Mar. 22, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 11, 2020	Feb. 11, 2021~ Mar. 22, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 11, 2020	Feb. 11, 2021~ Mar. 22, 2021	Dec.10, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY59053012	3Hz~26.5GHz	Nov. 18, 2020	Feb. 11, 2021~ Mar. 22, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Feb. 11, 2021~ Mar. 22, 2021	Jan. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	Feb. 11, 2021~ Mar. 22, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	Feb. 11, 2021~ Mar. 22, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-575 7	NA	Aug. 29, 2020	Feb. 11, 2021~ Mar. 22, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Feb. 11, 2021~ Mar. 22, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 11, 2021~ Mar. 22, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 11, 2021~ Mar. 22, 2021	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 04, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	May 04, 2021	Sep. 10, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	May 04, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	May 04, 2021	Nov. 30, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	May 04, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 04, 2021	N/A	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 04, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 04, 2021	Feb. 24, 2022	Conduction (CO05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054S NO12	10MHz~6GHz	Dec. 16, 2020	Feb. 01, 2021~ Mar. 25, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	Feb. 01, 2021~ Mar. 25, 2021	Jan. 20, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Feb. 01, 2021~ Mar. 25, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSQ	200578/02 6	20Hz-26.5GHz	Jul. 17, 2020	Feb. 01, 2021~ Mar. 25, 2021	Jul. 16, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF058	EC130048 5	N/A	Aug. 01, 2020	Feb. 01, 2021~ Mar. 25, 2021	Jul. 31, 2021	Conducted (TH05-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu/ Shiming Liu/ Ching Chen/ Junyu Jhou	Temperature:	22.3~25.5	°C
Test Date:	2021/2/1~2021/3/25	Relative Humidity:	56.3~59.1	%

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	36	5180	16.43	16.48	20.70	20.80	-		22.16			
11a	6Mbps	2	44	5220	16.43	16.48	20.50	20.90	-		22.16			
11a	6Mbps	2	48	5240	16.33	16.43	20.30	20.95	-		22.13			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	36	5180	17.80	15.70	19.89	24.00		1.00			Pass
11a	6Mbps	2	44	5220	17.70	15.90	19.90	24.00		1.00			Pass
11a	6Mbps	2	48	5240	17.70	16.00	19.94	24.00		1.00			Pass
HT20	MCS0	2	36	5180	16.70	14.50	18.75	24.00		1.00			Pass
HT20	MCS0	2	44	5220	17.30	15.50	19.50	24.00		1.00			Pass
HT20	MCS0	2	48	5240	17.30	15.60	19.54	24.00		1.00			Pass
HT40	MCS0	2	38	5190	12.40	10.20	14.45	24.00		1.00			Pass
HT40	MCS0	2	46	5230	17.40	15.70	19.64	24.00		1.00			Pass
VHT20	MCS0	2	36	5180	16.80	14.60	18.85	24.00		1.00			Pass
VHT20	MCS0	2	44	5220	17.40	15.60	19.60	24.00		1.00			Pass
VHT20	MCS0	2	48	5240	17.40	15.70	19.64	24.00		1.00			Pass
VHT40	MCS0	2	38	5190	12.50	10.30	14.55	24.00		1.00			Pass
VHT40	MCS0	2	46	5230	17.50	15.80	19.74	24.00		1.00			Pass
VHT80	MCS0	2	42	5210	9.00	9.40	12.21	24.00		1.00			Pass
VHT160	MCS0	2	50	5250	12.90	11.00	15.06	24.00		1.00			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	36	5180			8.62	11.00		1.00		Pass
11a	6Mbps	2	44	5220			8.71	11.00		1.00		Pass
11a	6Mbps	2	48	5240			8.66	11.00		1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	52	5260	16.38	16.43	20.45	20.75	23.14		29.14		23.98		
11a	6Mbps	2	60	5300	16.38	16.48	20.45	20.95	23.14		29.14		23.98		
11a	6Mbps	2	64	5320	16.38	16.43	20.40	20.90	23.14		29.14		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	52	5260	17.30	16.00	19.71	23.98		1.00		26.99	Pass
11a	6Mbps	2	60	5300	17.20	16.00	19.65	23.98		1.00		26.99	Pass
11a	6Mbps	2	64	5320	17.30	16.50	19.93	23.98		1.00		26.99	Pass
HT20	MCS0	2	52	5260	17.30	16.00	19.71	23.98		1.00		26.99	Pass
HT20	MCS0	2	60	5300	17.20	16.00	19.65	23.98		1.00		26.99	Pass
HT20	MCS0	2	64	5320	17.00	16.10	19.58	23.98		1.00		26.99	Pass
HT40	MCS0	2	54	5270	17.40	16.00	19.77	23.98		1.00		26.99	Pass
HT40	MCS0	2	62	5310	16.80	15.80	19.34	23.98		1.00		26.99	Pass
VHT20	MCS0	2	52	5260	17.40	16.10	19.81	23.98		1.00		26.99	Pass
VHT20	MCS0	2	60	5300	17.30	16.10	19.75	23.98		1.00		26.99	Pass
VHT20	MCS0	2	64	5320	17.10	16.20	19.68	23.98		1.00		26.99	Pass
VHT40	MCS0	2	54	5270	17.50	16.10	19.87	23.98		1.00		26.99	Pass
VHT40	MCS0	2	62	5310	16.90	15.90	19.44	23.98		1.00		26.99	Pass
VHT80	MCS0	2	58	5290	16.40	14.80	18.68	23.98		1.00		26.99	Pass
VHT160	MCS0	2	50	5250	12.90	11.00	15.06	23.98		1.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	52	5260			8.45	11.00		1.00		Pass
11a	6Mbps	2	60	5300			8.44	11.00		1.00		Pass
11a	6Mbps	2	64	5320			8.80	11.00		1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
11a	6Mbps	2	100	5500	16.38	16.43	20.35	20.65	23.14		29.14		23.98		----	----
11a	6Mbps	2	116	5580	16.38	16.43	20.35	20.75	23.14		29.14		23.98		----	----
11a	6Mbps	2	140	5700	16.43	16.43	20.40	21.05	23.16		29.16		23.98		----	----

Band III straddle channel MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
11a	6Mbps	2	144	5720	13.24	13.24	15.20	15.85	22.22		28.22		22.82		3.15	2.9

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	100	5500	17.30	16.30	19.84	23.98		1.00		26.99	Pass
11a	6Mbps	2	116	5580	16.70	16.70	19.71	23.98		1.00		26.99	Pass
11a	6Mbps	2	140	5700	16.70	17.10	19.91	23.98		1.00		26.99	Pass
HT20	MCS0	2	100	5500	17.10	16.00	19.60	23.98		1.00		26.99	Pass
HT20	MCS0	2	116	5580	16.80	16.70	19.76	23.98		1.00		26.99	Pass
HT20	MCS0	2	140	5700	15.80	16.20	19.01	23.98		1.00		26.99	Pass
HT40	MCS0	2	102	5510	16.10	14.90	18.55	23.98		1.00		26.99	Pass
HT40	MCS0	2	110	5550	16.80	16.70	19.76	23.98		1.00		26.99	Pass
HT40	MCS0	2	134	5670	16.70	16.80	19.76	23.98		1.00		26.99	Pass
VHT20	MCS0	2	100	5500	17.20	16.10	19.70	23.98		1.00		26.99	Pass
VHT20	MCS0	2	116	5580	16.90	16.80	19.86	23.98		1.00		26.99	Pass
VHT20	MCS0	2	140	5700	15.90	16.30	19.11	23.98		1.00		26.99	Pass
VHT40	MCS0	2	102	5510	16.20	15.00	18.65	23.98		1.00		26.99	Pass
VHT40	MCS0	2	110	5550	16.90	16.80	19.86	23.98		1.00		26.99	Pass
VHT40	MCS0	2	134	5670	16.80	16.90	19.86	23.98		1.00		26.99	Pass
VHT80	MCS0	2	106	5530	13.60	12.20	15.97	23.98		1.00		26.99	Pass
VHT80	MCS0	2	122	5610	16.90	16.70	19.81	23.98		1.00		26.99	Pass
VHT160	MCS0	2	114	5570	12.70	13.00	15.86	23.98		1.00		26.99	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	144	5720	16.60	16.90	19.76	22.82		1.00		26.99	Pass
HT20	MCS0	2	144	5720	16.30	16.60	19.46	23.98		1.00		26.99	Pass
HT40	MCS0	2	142	5710	16.50	17.00	19.77	23.98		1.00		26.99	Pass
VHT20	MCS0	2	144	5720	16.40	16.70	19.56	23.98		1.00		26.99	Pass
VHT40	MCS0	2	142	5710	16.60	17.10	19.87	23.98		1.00		26.99	Pass
VHT80	MCS0	2	138	5690	16.70	17.00	19.86	23.98		1.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	100	5500			8.90	11.00		1.00		Pass
11a	6Mbps	2	116	5580			8.62	11.00		1.00		Pass
11a	6Mbps	2	140	5700			8.67	11.00		1.00		Pass

Band III straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	144	5720			8.57	11.00		1.00		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS0	2	36	5180	Full	18.93	18.93	22.55	22.85	-	-	22.77	-	
HE20	MCS0	2	44	5220	Full	18.93	18.93	22.60	22.50	-	-	22.77	-	
HE20	MCS0	2	48	5240	Full	18.93	18.93	22.55	22.40	-	-	22.77	-	
HE40	MCS0	2	38	5190	Full	37.96	37.96	41.58	41.67	-	-	23.01	-	
HE40	MCS0	2	46	5230	Full	38.06	37.96	41.40	41.40	-	-	23.01	-	
HE80	MCS0	2	42	5210	Full	78.28	78.16	82.56	82.40	-	-	23.01	-	
HE160	MCS0	2	50	5250	Full	156.32	156.80	164.16	165.12	-	-	23.01	-	

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full	16.90	14.70	18.95	24.00		1.00			Pass
HE20	MCS0	2	36	5180	26/0	6.00	5.90	8.96	24.00		1.00			Pass
HE20	MCS0	2	44	5220	Full	17.50	15.70	19.70	24.00		1.00			Pass
HE20	MCS0	2	48	5240	Full	17.50	15.80	19.74	24.00		1.00			Pass
HE40	MCS0	2	38	5190	Full	12.60	10.40	14.65	24.00		1.00			Pass
HE40	MCS0	2	46	5230	Full	17.60	15.90	19.84	24.00		1.00			Pass
HE80	MCS0	2	42	5210	Full	9.10	9.50	12.31	24.00		1.00			Pass
HE160	MCS0	2	50	5250	Full	13.00	11.10	15.16	24.00		1.00			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full			7.46	11.00		1.00			Pass
HE20	MCS0	2	36	5180	26/0			7.14	11.00		1.00			Pass
HE20	MCS0	2	44	5220	Full			8.11	11.00		1.00			Pass
HE20	MCS0	2	48	5240	Full			8.13	11.00		1.00			Pass
HE40	MCS0	2	38	5190	Full			0.31	11.00		1.00			Pass
HE40	MCS0	2	46	5230	Full			5.77	11.00		1.00			Pass
HE80	MCS0	2	42	5210	Full			-4.65	11.00		1.00			Pass
HE160	MCS0	2	50	5250	Full			-4.28	11.00		1.00			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	
HE20	MCS0	2	52	5260	Full	18.93	18.93	22.80	22.70	23.77		29.77		23.98		
HE20	MCS0	2	60	5300	Full	18.93	18.93	22.40	22.65	23.77		29.77		23.98		
HE20	MCS0	2	64	5320	Full	18.93	18.93	22.55	22.60	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	38.06	38.06	41.67	41.40	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.96	37.96	41.67	41.22	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	78.04	78.04	82.24	82.72	23.98		30.00		23.98		
HE160	MCS0	2	50	5250	Full	156.32	156.80	164.16	165.12	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	52	5260	Full	17.50	16.20	19.91	23.98		1.00		26.99	Pass
HE20	MCS0	2	60	5300	Full	17.40	16.20	19.85	23.98		1.00		26.99	Pass
HE20	MCS0	2	64	5320	Full	17.20	16.30	19.78	23.98		1.00		26.99	Pass
HE20	MCS0	2	64	5320	26/8	6.40	6.80	9.61	23.98		1.00		26.99	Pass
HE40	MCS0	2	54	5270	Full	17.60	16.20	19.97	23.98		1.00		26.99	Pass
HE40	MCS0	2	62	5310	Full	17.00	16.00	19.54	23.98		1.00		26.99	Pass
HE80	MCS0	2	58	5290	Full	16.50	14.90	18.78	23.98		1.00		26.99	Pass
HE160	MCS0	2	50	5250	Full	13.00	11.00	15.16	23.98		1.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	52	5260	Full			8.43	11.00	1.00			Pass	
HE20	MCS0	2	60	5300	Full			8.34	11.00	1.00			Pass	
HE20	MCS0	2	64	5320	Full			8.25	11.00	1.00			Pass	
HE20	MCS0	2	64	5320	26/8			8.05	11.00	1.00			Pass	
HE40	MCS0	2	54	5270	Full			5.96	11.00	1.00			Pass	
HE40	MCS0	2	62	5310	Full			5.59	11.00	1.00			Pass	
HE80	MCS0	2	58	5290	Full			1.60	11.00	1.00			Pass	
HE160	MCS0	2	50	5250	Full			-4.28	11.00	1.00			Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS0	2	100	5500	Full	18.93	18.93	22.35	22.45	23.77		29.77		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.93	18.93	22.70	22.60	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.93	18.98	22.45	22.80	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	37.96	41.58	41.31	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	38.06	41.49	41.58	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.96	38.06	41.58	41.67	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	78.04	78.04	82.40	83.36	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	78.16	78.04	82.88	82.56	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	156.80	156.80	163.20	163.84	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7	Ant 6	Ant 7
HE20	MCS0	2	144	5720	Full	14.49	14.54	16.45	16.30	22.61		28.61		23.12		4.30	4.40
HE40	MCS0	2	142	5710	Full	33.98	33.98	35.70	35.79	23.98		30.00		23.98		3.81	3.90
HE80	MCS0	2	138	5690	Full	73.96	73.84	76.12	76.28	23.98		30.00		23.98		3.84	4.04

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	100	5500	Full	17.30	16.20	19.80	23.98		1.00		26.99	Pass
HE20	MCS0	2	100	5500	26/0	7.40	6.90	10.17	23.98		1.00		26.99	Pass
HE20	MCS0	2	116	5580	Full	17.00	16.90	19.96	23.98		1.00		26.99	Pass
HE20	MCS0	2	140	5700	Full	16.00	16.40	19.21	23.98		1.00		26.99	Pass
HE20	MCS0	2	140	5700	26/8	6.20	6.50	9.36	23.98		1.00		26.99	Pass
HE40	MCS0	2	102	5510	Full	16.30	15.10	18.75	23.98		1.00		26.99	Pass
HE40	MCS0	2	110	5550	Full	17.00	16.90	19.96	23.98		1.00		26.99	Pass
HE40	MCS0	2	134	5670	Full	16.90	17.00	19.96	23.98		1.00		26.99	Pass
HE80	MCS0	2	106	5530	Full	13.70	12.30	16.07	23.98		1.00		26.99	Pass
HE80	MCS0	2	122	5610	Full	17.00	16.80	19.91	23.98		1.00		26.99	Pass
HE160	MCS0	2	114	5570	Full	12.80	13.10	15.96	23.98		1.00		26.99	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	144	5720	Full	16.50	16.80	19.66	23.12		1.00		26.99	Pass
HE40	MCS0	2	142	5710	Full	16.70	17.20	19.97	23.98		1.00		26.99	Pass
HE80	MCS0	2	138	5690	Full	16.80	17.10	19.96	23.98		1.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	100	5500	Full			8.43	11.00	1.00			Pass	
HE20	MCS0	2	100	5500	26/0			8.34	11.00	1.00			Pass	
HE20	MCS0	2	116	5580	Full			8.75	11.00	1.00			Pass	
HE20	MCS0	2	140	5700	Full			7.98	11.00	1.00			Pass	
HE20	MCS0	2	140	5700	26/8			7.67	11.00	1.00			Pass	
HE40	MCS0	2	102	5510	Full			4.71	11.00	1.00			Pass	
HE40	MCS0	2	110	5550	Full			6.26	11.00	1.00			Pass	
HE40	MCS0	2	134	5670	Full			6.16	11.00	1.00			Pass	
HE80	MCS0	2	106	5530	Full			-0.60	11.00	1.00			Pass	
HE80	MCS0	2	122	5610	Full			3.15	11.00	1.00			Pass	
HE160	MCS0	2	114	5570	Full			-3.32	11.00	1.00			Pass	

Band III straddle channel MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	144	5720	Full				8.39	11.00	1.00			Pass
HE40	MCS0	2	142	5710	Full				6.15	11.00	1.00			Pass
HE80	MCS0	2	138	5690	Full				3.28	11.00	1.00			Pass



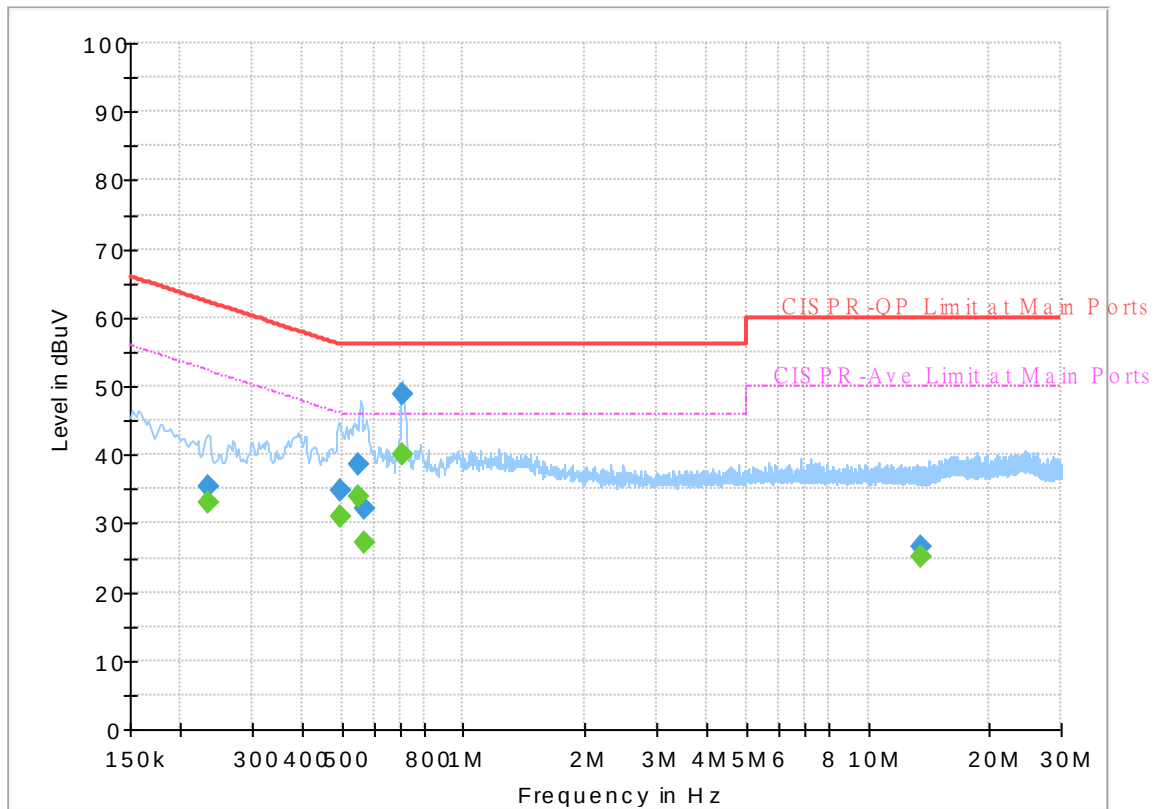
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Howard Huang	Temperature :	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO : 112124-02
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



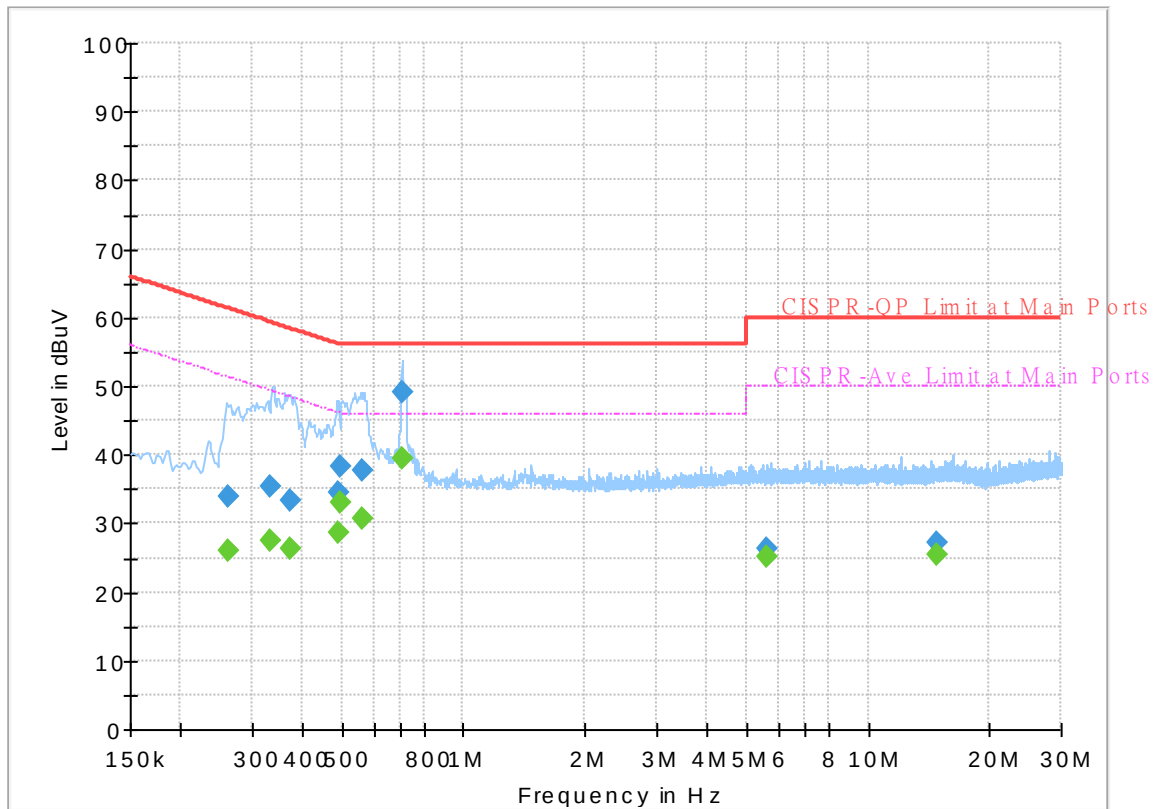
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.233970	---	32.92	52.31	19.39	L1	OFF	19.5
0.233970	35.52	---	62.31	26.79	L1	OFF	19.5
0.496500	---	30.99	46.06	15.07	L1	OFF	19.7
0.496500	34.76	---	56.06	21.30	L1	OFF	19.7
0.552750	---	33.94	46.00	12.06	L1	OFF	19.7
0.552750	38.53	---	56.00	17.47	L1	OFF	19.7
0.571740	---	27.31	46.00	18.69	L1	OFF	19.7
0.571740	32.06	---	56.00	23.94	L1	OFF	19.7
0.705750	---	39.95	46.00	6.05	L1	OFF	19.8
0.705750	48.97	---	56.00	7.03	L1	OFF	19.8
13.528500	---	25.11	50.00	24.89	L1	OFF	20.1
13.528500	26.57	---	60.00	33.43	L1	OFF	20.1

EUT Information

Report NO : 112124-02
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)
0.263220	---	25.97	51.33	25.36	N	OFF	19.5
0.263220	33.81	---	61.33	27.52	N	OFF	19.5
0.334500	---	27.49	49.34	21.85	N	OFF	19.6
0.334500	35.45	---	59.34	23.89	N	OFF	19.6
0.371220	---	26.42	48.47	22.05	N	OFF	19.6
0.371220	33.44	---	58.47	25.03	N	OFF	19.6
0.489750	---	28.72	46.17	17.45	N	OFF	19.7
0.489750	34.38	---	56.17	21.79	N	OFF	19.7
0.498660	---	33.06	46.02	12.96	N	OFF	19.7
0.498660	38.27	---	56.02	17.75	N	OFF	19.7
0.564990	---	30.74	46.00	15.26	N	OFF	19.8
0.564990	37.67	---	56.00	18.33	N	OFF	19.8
0.705750	---	39.61	46.00	6.39	N	OFF	19.9
0.705750	49.04	---	56.00	6.96	N	OFF	19.9
5.610750	---	25.29	50.00	24.71	N	OFF	19.9
5.610750	26.46	---	60.00	33.54	N	OFF	19.9
14.868870	---	25.48	50.00	24.52	N	OFF	20.3
14.868870	27.28	---	60.00	32.72	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	64.62	-9.38	74	49.45	31.8	13.04	29.67	100	120	P	H
		5148.46	50.81	-3.19	54	35.63	31.8	13.05	29.67	100	120	A	H
	*	5180	112.96	-	-	97.87	31.68	13.09	29.68	100	120	P	H
	*	5180	105.26	-	-	90.17	31.68	13.09	29.68	100	120	A	H
													H
													H
		5148.46	57.84	-16.16	74	42.66	31.8	13.05	29.67	397	62	P	V
		5149.5	45.08	-8.92	54	29.9	31.8	13.05	29.67	397	62	A	V
	*	5180	106.88	-	-	91.79	31.68	13.09	29.68	397	62	P	V
	*	5180	99.68	-	-	84.59	31.68	13.09	29.68	397	62	A	V
													V
													V
802.11a CH 44 5220MHz		5133.9	55.42	-18.58	74	40.26	31.8	13.03	29.67	100	118	P	H
		5150	44.24	-9.76	54	29.06	31.8	13.05	29.67	100	118	A	H
	*	5220	118.25	-	-	103.31	31.48	13.15	29.69	100	118	P	H
	*	5220	110.7	-	-	95.76	31.48	13.15	29.69	100	118	A	H
		5413.52	54.1	-19.9	74	38.96	31.38	13.48	29.72	100	118	P	H
		5454.68	42.03	-11.97	54	26.62	31.61	13.52	29.72	100	118	A	H
		5136.76	54.18	-19.82	74	39.02	31.8	13.03	29.67	393	308	P	V
		5141.7	42.33	-11.67	54	27.16	31.8	13.04	29.67	393	308	A	V
	*	5220	110.23	-	-	95.29	31.48	13.15	29.69	393	308	P	V
	*	5220	102.66	-	-	87.72	31.48	13.15	29.69	393	308	A	V
		5368.16	53.77	-20.23	74	38.9	31.17	13.41	29.71	393	308	P	V
		5457.2	41.84	-12.16	54	26.43	31.61	13.52	29.72	393	308	A	V



802.11a CH 48 5240MHz		5143.78	54.27	-19.73	74	39.1	31.8	13.04	29.67	100	118	P	H
		5148.46	43.47	-10.53	54	28.29	31.8	13.05	29.67	100	118	A	H
	*	5240	118.75	-	-	103.9	31.36	13.18	29.69	100	118	P	H
	*	5240	111.2	-	-	96.35	31.36	13.18	29.69	100	118	A	H
		5455.8	54.05	-19.95	74	38.64	31.61	13.52	29.72	100	118	P	H
		5354.44	42.2	-11.8	54	27.4	31.12	13.39	29.71	100	118	A	H
		5091.26	54.9	-19.1	74	39.82	31.77	12.97	29.66	359	83	P	V
		5134.94	42.42	-11.58	54	27.26	31.8	13.03	29.67	359	83	A	V
	*	5240	110.58	-	-	95.73	31.36	13.18	29.69	359	83	P	V
	*	5240	103.03	-	-	88.18	31.36	13.18	29.69	359	83	A	V
		5453.84	53.58	-20.42	74	38.17	31.61	13.52	29.72	359	83	P	V
		5456.36	41.94	-12.06	54	26.53	31.61	13.52	29.72	359	83	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 36 5180MHz		10360	48.96	-19.24	68.2	46.36	39.44	19.39	56.23	100	0	P	H
		15540	47.22	-26.78	74	41.43	37.98	23.22	55.41	100	0	P	H
													H
													H
		10360	48.94	-19.26	68.2	46.34	39.44	19.39	56.23	100	0	P	V
		15540	48.15	-25.85	74	42.36	37.98	23.22	55.41	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	49.23	-18.97	68.2	46.33	39.68	19.43	56.21	100	0	P	H
		15660	47.34	-26.66	74	41.89	37.56	23.32	55.43	100	0	P	H
													H
													H
		10440	49.92	-18.28	68.2	47.02	39.68	19.43	56.21	100	0	P	V
		15660	47.29	-26.71	74	41.84	37.56	23.32	55.43	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	49.15	-19.05	68.2	46.14	39.76	19.45	56.2	100	0	P	H
		15720	47.56	-26.44	74	42.27	37.38	23.35	55.44	100	0	P	H
													H
													H
		10480	49.55	-18.65	68.2	46.54	39.76	19.45	56.2	100	0	P	V
		15720	48.27	-25.73	74	42.98	37.38	23.35	55.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 6+7	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 HE20 Full CH 36 5180MHz		5149.5	62.99	-11.01	74	47.81	31.8	13.05	29.67	101	118	P	H
		5147.94	49.2	-4.8	54	34.03	31.8	13.04	29.67	101	118	A	H
	*	5180	115.85	-	-	100.76	31.68	13.09	29.68	101	118	P	H
	*	5180	105.62	-	-	90.53	31.68	13.09	29.68	101	118	A	H
													H
													H
		5146.12	54.23	-19.77	74	39.06	31.8	13.04	29.67	400	308	P	V
		5149.76	42.89	-11.11	54	27.71	31.8	13.05	29.67	400	308	A	V
	*	5180	107.91	-	-	92.82	31.68	13.09	29.68	400	308	P	V
	*	5180	97.33	-	-	82.24	31.68	13.09	29.68	400	308	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5149.5	56.23	-17.77	74	41.05	31.8	13.05	29.67	100	117	P	H
		5149.76	45.54	-8.46	54	30.36	31.8	13.05	29.67	100	117	A	H
	*	5220	120.86	-	-	105.92	31.48	13.15	29.69	100	117	P	H
	*	5220	110.62	-	-	95.68	31.48	13.15	29.69	100	117	A	H
		5438.16	54.15	-19.85	74	38.84	31.53	13.5	29.72	100	117	P	H
		5458.04	42.27	-11.73	54	26.85	31.62	13.52	29.72	100	117	A	H
		5076.7	53.92	-20.08	74	38.91	31.71	12.96	29.66	396	301	P	V
		5149.24	42.43	-11.57	54	27.25	31.8	13.05	29.67	396	301	A	V
	*	5220	112.36	-	-	97.42	31.48	13.15	29.69	396	301	P	V
	*	5220	102.35	-	-	87.41	31.48	13.15	29.69	396	301	A	V
		5449.36	53.96	-20.04	74	38.57	31.6	13.51	29.72	396	301	P	V
		5451.32	41.86	-12.14	54	26.47	31.6	13.51	29.72	396	301	A	V



802.11ax HE20 Full CH 48 5240MHz		5020.28	55.04	-18.96	74	40.26	31.54	12.89	29.65	100	117	P	H
		5149.24	43.52	-10.48	54	28.34	31.8	13.05	29.67	100	117	A	H
	*	5240	120.45	-	-	105.6	31.36	13.18	29.69	100	117	P	H
	*	5240	111	-	-	96.15	31.36	13.18	29.69	100	117	A	H
		5388.04	53.61	-20.39	74	38.62	31.25	13.45	29.71	100	117	P	H
		5351.08	42.2	-11.8	54	27.43	31.1	13.38	29.71	100	117	A	H
		5093.86	55.28	-18.72	74	40.19	31.78	12.98	29.67	381	72	P	V
		5149.5	42.48	-11.52	54	27.3	31.8	13.05	29.67	381	72	A	V
	*	5240	112.2	-	-	97.35	31.36	13.18	29.69	381	72	P	V
	*	5240	102.02	-	-	87.17	31.36	13.18	29.69	381	72	A	V
		5439.28	54.03	-19.97	74	38.71	31.54	13.5	29.72	381	72	P	V
		5449.64	41.97	-12.03	54	26.58	31.6	13.51	29.72	381	72	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE20 Full CH 36 5180MHz		10360	49.68	-18.52	68.2	47.08	39.44	19.39	56.23	100	0	P	H
		15540	46.93	-27.07	74	41.14	37.98	23.22	55.41	100	0	P	H
													H
													H
		10360	48.89	-19.31	68.2	46.29	39.44	19.39	56.23	100	0	P	V
		15540	47.46	-26.54	74	41.67	37.98	23.22	55.41	100	0	P	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		10440	49.23	-18.97	68.2	46.33	39.68	19.43	56.21	100	0	P	H
		15660	45.99	-28.01	74	40.54	37.56	23.32	55.43	100	0	P	H
													H
													H
		10440	48.69	-19.51	68.2	45.79	39.68	19.43	56.21	100	0	P	V
		15660	46.88	-27.12	74	41.43	37.56	23.32	55.43	100	0	P	V
													V
													V
802.11ax HE20 Full CH 48 5240MHz		10480	49.74	-18.46	68.2	46.73	39.76	19.45	56.2	100	0	P	H
		15720	48.15	-25.85	74	42.86	37.38	23.35	55.44	100	0	P	H
													H
													H
		10480	49.34	-18.86	68.2	46.33	39.76	19.45	56.2	100	0	P	V
		15720	46.73	-27.27	74	41.44	37.38	23.35	55.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

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

WIFI Ant. 6+7	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 HE40 Full CH 38 5190MHz		5145.86	61.77	-12.23	74	46.6	31.8	13.04	29.67	101	118	P	H
		5147.42	50.31	-3.69	54	35.14	31.8	13.04	29.67	101	118	A	H
	*	5190	107.81	-	-	92.75	31.64	13.1	29.68	101	118	P	H
	*	5190	98.75	-	-	83.69	31.64	13.1	29.68	101	118	A	H
		5440.68	53.57	-20.43	74	38.25	31.54	13.5	29.72	101	118	P	H
		5449.08	42.05	-11.95	54	26.67	31.59	13.51	29.72	101	118	A	H
		5102.96	54.1	-19.9	74	38.98	31.8	12.99	29.67	399	308	P	V
		5145.86	42.97	-11.03	54	27.8	31.8	13.04	29.67	399	308	A	V
	*	5190	100.12	-	-	85.06	31.64	13.1	29.68	399	308	P	V
	*	5190	90.35	-	-	75.29	31.64	13.1	29.68	399	308	A	V
		5432.56	53.3	-20.7	74	38.02	31.5	13.5	29.72	399	308	P	V
		5442.08	41.95	-12.05	54	26.61	31.55	13.51	29.72	399	308	A	V
802.11ax HE40 Full CH 46 5230MHz		5149.24	63.04	-10.96	74	47.86	31.8	13.05	29.67	101	117	P	H
		5147.16	49.81	-4.19	54	34.64	31.8	13.04	29.67	101	117	A	H
	*	5230	115.46	-	-	100.57	31.42	13.16	29.69	101	117	P	H
	*	5230	106.74	-	-	91.85	31.42	13.16	29.69	101	117	A	H
		5356.12	54.89	-19.11	74	40.09	31.12	13.39	29.71	101	117	P	H
		5350.24	43.91	-10.09	54	29.14	31.1	13.38	29.71	101	117	A	H
		5146.38	55.17	-18.83	74	40	31.8	13.04	29.67	396	292	P	V
		5148.72	43.06	-10.94	54	27.88	31.8	13.05	29.67	396	292	A	V
	*	5230	106.55	-	-	91.66	31.42	13.16	29.69	396	292	P	V
	*	5230	97.6	-	-	82.71	31.42	13.16	29.69	396	292	A	V
		5433.4	53.62	-20.38	74	38.34	31.5	13.5	29.72	396	292	P	V
		5449.64	42.22	-11.78	54	26.83	31.6	13.51	29.72	396	292	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE40 Full CH 38 5190MHz		10380	48.9	-19.3	68.2	46.2	39.52	19.4	56.22	100	0	P	H
		15570	46.58	-27.42	74	40.85	37.89	23.25	55.41	100	0	P	H
													H
													H
		10380	49.35	-18.85	68.2	46.65	39.52	19.4	56.22	100	0	P	V
		15570	47.48	-26.52	74	41.75	37.89	23.25	55.41	100	0	P	V
													V
													V
802.11ax HE40 Full CH 46 5230MHz		10460	49.54	-18.66	68.2	46.59	39.72	19.44	56.21	100	0	P	H
		15690	47.06	-26.94	74	41.72	37.44	23.34	55.44	100	0	P	H
													H
													H
		10460	49.03	-19.17	68.2	46.08	39.72	19.44	56.21	100	0	P	V
		15690	47	-27	74	41.66	37.44	23.34	55.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 6+7	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 42 5210MHz		5136.5	60.29	-13.71	74	45.13	31.8	13.03	29.67	101	118	P	H
		5146.9	50.05	-3.95	54	34.88	31.8	13.04	29.67	101	118	P	H
	*	5210	103.37	-	-	88.38	31.54	13.13	29.68	101	118	P	H
	*	5210	94.39	-	-	79.4	31.54	13.13	29.68	101	118	P	H
		5395.04	54.17	-19.83	74	39.14	31.28	13.46	29.71	101	118	P	H
		5448.24	42.41	-11.59	54	27.03	31.59	13.51	29.72	101	118	A	H
		5150	54.72	-19.28	74	39.54	31.8	13.05	29.67	399	293	P	V
		5146.64	43.56	-10.44	54	28.39	31.8	13.04	29.67	399	293	P	V
	*	5210	94.74	-	-	79.75	31.54	13.13	29.68	399	293	P	V
	*	5210	86.23	-	-	71.24	31.54	13.13	29.68	399	293	P	V
		5444.88	54.09	-19.91	74	38.73	31.57	13.51	29.72	399	293	P	V
		5446.84	42.21	-11.79	54	26.84	31.58	13.51	29.72	399	293	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 42 5210MHz		10420	49.1	-19.1	68.2	46.26	39.64	19.42	56.22	100	0	P	H
		15630	46.71	-27.29	74	41.17	37.68	23.29	55.43	100	0	P	H
													H
													H
													H
													H
		10420	49.63	-18.57	68.2	46.79	39.64	19.42	56.22	100	0	P	V
		15630	47.09	-26.91	74	41.55	37.68	23.29	55.43	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Bandedge @ 3m)

WIFI Ant. 1+2	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 50 5250MHz		5107.1	57.05	-16.95	74	41.93	31.8	12.99	29.67	100	117	P	H
		5136.68	47.37	-6.63	54	32.21	31.8	13.03	29.67	100	117	A	H
	*	5250	99.85	-	-	85.04	31.3	13.2	29.69	100	117	P	H
	*	5250	89.77	-	-	74.96	31.3	13.2	29.69	100	117	A	H
		5386.8	55.8	-18.2	74	40.81	31.25	13.45	29.71	100	117	P	H
		5388.24	44.59	-9.41	54	29.6	31.25	13.45	29.71	100	117	A	H
		5077.52	54.94	-19.06	74	39.93	31.71	12.96	29.66	389	309	P	V
	*	5146.2	43.01	-10.99	54	27.84	31.8	13.04	29.67	389	309	A	V
	*	5250	92.13	-	-	77.32	31.3	13.2	29.69	389	309	P	V
		5250	82.21	-	-	67.4	31.3	13.2	29.69	389	309	A	V
		5360.16	53.77	-20.23	74	38.94	31.14	13.4	29.71	389	309	P	V
		5407.2	42.25	-11.75	54	27.15	31.34	13.48	29.72	389	309	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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 50 5250MHz		10500	48.41	-19.79	68.2	45.33	39.8	19.48	56.2	100	0	P	H
		15750	47	-27	74	41.72	37.35	23.38	55.45	100	0	P	H
													H
													H
		10500	47.69	-20.51	68.2	44.61	39.8	19.48	56.2	100	0	P	V
		15750	45.9	-28.1	74	40.62	37.35	23.38	55.45	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 52 5260MHz		5147.22	55.61	-18.39	74	40.44	31.8	13.04	29.67	101	118	P	H
		5109.48	43.69	-10.31	54	28.56	31.8	13	29.67	101	118	A	H
	*	5260	119.54	-	-	104.73	31.28	13.22	29.69	101	118	P	H
	*	5260	112.26	-	-	97.45	31.28	13.22	29.69	101	118	A	H
		5453.28	53.58	-20.42	74	38.17	31.61	13.52	29.72	101	118	P	H
		5350.08	43.27	-10.73	54	28.5	31.1	13.38	29.71	101	118	A	H
		5113.9	53.83	-20.17	74	38.7	31.8	13	29.67	399	82	P	V
		5147.56	42.75	-11.25	54	27.58	31.8	13.04	29.67	399	82	A	V
	*	5260	111.43	-	-	96.62	31.28	13.22	29.69	399	82	P	V
	*	5260	103.81	-	-	89	31.28	13.22	29.69	399	82	A	V
		5409.12	53.75	-20.25	74	38.64	31.35	13.48	29.72	399	82	P	V
		5448.24	42.21	-11.79	54	26.83	31.59	13.51	29.72	399	82	A	V
802.11a CH 60 5300MHz		5105.06	54.29	-19.71	74	39.17	31.8	12.99	29.67	100	119	P	H
		5149.6	43.69	-10.31	54	28.51	31.8	13.05	29.67	100	119	A	H
	*	5300	119.73	-	-	104.94	31.2	13.29	29.7	100	119	P	H
	*	5300	112.32	-	-	97.53	31.2	13.29	29.7	100	119	A	H
		5352.96	64.29	-9.71	74	49.5	31.11	13.39	29.71	100	119	P	H
		5350.08	50.81	-3.19	54	36.04	31.1	13.38	29.71	100	119	A	H
		5094.52	54.3	-19.7	74	39.21	31.78	12.98	29.67	396	80	P	V
		5149.94	42.76	-11.24	54	27.58	31.8	13.05	29.67	396	80	A	V
	*	5300	110.96	-	-	96.17	31.2	13.29	29.7	396	80	P	V
	*	5300	103.78	-	-	88.99	31.2	13.29	29.7	396	80	A	V
		5449.44	54.07	-19.93	74	38.68	31.6	13.51	29.72	396	80	P	V
		5350.08	44.09	-9.91	54	29.32	31.1	13.38	29.71	396	80	A	V



802.11a CH 64 5320MHz	*	5320	115.68	-	-	100.89	31.16	13.33	29.7	101	117	P	H
	*	5320	108.21	-	-	93.42	31.16	13.33	29.7	101	117	A	H
		5353.12	59.36	-14.64	74	44.57	31.11	13.39	29.71	101	117	P	H
		5350.08	48.65	-5.35	54	33.88	31.1	13.38	29.71	101	117	A	H
													H
													H
	*	5320	106.98	-	-	92.19	31.16	13.33	29.7	392	78	P	V
	*	5320	100	-	-	85.21	31.16	13.33	29.7	392	78	A	V
		5408.8	53.14	-20.86	74	38.03	31.35	13.48	29.72	392	78	P	V
		5350.08	43.19	-10.81	54	28.42	31.1	13.38	29.71	392	78	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 52 5260MHz		10520	48.63	-19.57	68.2	45.52	39.8	19.49	56.18	100	0	P	H
		15780	47.6	-26.4	74	42.34	37.32	23.4	55.46	100	0	P	H
													H
													H
		10520	49.31	-18.89	68.2	46.2	39.8	19.49	56.18	100	0	P	V
		15780	47.43	-26.57	74	42.17	37.32	23.4	55.46	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	48.97	-25.03	74	45.76	39.8	19.53	56.12	100	0	P	H
		15900	47.04	-26.96	74	41.53	37.5	23.49	55.48	100	0	P	H
													H
													H
		10600	49.91	-24.09	74	46.7	39.8	19.53	56.12	100	0	P	V
		15900	49.76	-24.24	74	44.25	37.5	23.49	55.48	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.44	-25.56	74	45.18	39.8	19.55	56.09	100	0	P	H
		15960	46.74	-27.26	74	41.38	37.32	23.53	55.49	100	0	P	H
													H
													H
		10640	49.7	-24.3	74	46.44	39.8	19.55	56.09	100	0	P	V
		15960	45.9	-28.1	74	40.54	37.32	23.53	55.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 6+7	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 HE20 Full CH 52 5260MHz		5140.76	54.45	-19.55	74	39.28	31.8	13.04	29.67	101	118	P	H
		5147.56	43.6	-10.4	54	28.43	31.8	13.04	29.67	101	118	A	H
	*	5260	121.25	-	-	106.44	31.28	13.22	29.69	101	118	P	H
	*	5260	112.52	-	-	97.71	31.28	13.22	29.69	101	118	A	H
		5360.16	54.62	-19.38	74	39.79	31.14	13.4	29.71	101	118	P	H
		5351.04	43.93	-10.07	54	29.16	31.1	13.38	29.71	101	118	A	H
		5103.02	53.97	-20.03	74	38.85	31.8	12.99	29.67	399	81	P	V
		5145.18	42.71	-11.29	54	27.54	31.8	13.04	29.67	399	81	A	V
	*	5260	112.54	-	-	97.73	31.28	13.22	29.69	399	81	P	V
	*	5260	103.82	-	-	89.01	31.28	13.22	29.69	399	81	A	V
		5355.84	53.48	-20.52	74	38.68	31.12	13.39	29.71	399	81	P	V
		5451.84	42.16	-11.84	54	26.77	31.6	13.51	29.72	399	81	A	V
802.11ax HE20 Full CH 60 5300MHz		5142.12	54.15	-19.85	74	38.98	31.8	13.04	29.67	100	115	P	H
		5143.14	42.74	-11.26	54	27.57	31.8	13.04	29.67	100	115	A	H
	*	5300	121.81	-	-	107.02	31.2	13.29	29.7	100	115	P	H
	*	5300	111.05	-	-	96.26	31.2	13.29	29.7	100	115	A	H
		5350.08	62.02	-11.98	74	47.25	31.1	13.38	29.71	100	115	P	H
		5350.08	49.61	-4.39	54	34.84	31.1	13.38	29.71	100	115	A	H
		5127.5	53.99	-20.01	74	38.84	31.8	13.02	29.67	353	61	P	V
		5144.16	42.16	-11.84	54	26.99	31.8	13.04	29.67	353	61	A	V
	*	5300	111.77	-	-	96.98	31.2	13.29	29.7	353	61	P	V
	*	5300	102.6	-	-	87.81	31.2	13.29	29.7	353	61	A	V
		5388.72	53.63	-20.37	74	38.64	31.25	13.45	29.71	353	61	P	V
		5350.08	42.47	-11.53	54	27.7	31.1	13.38	29.71	353	61	A	V



802.11ax HE20 Full CH 64 5320MHz	*	5320	118.83	-	-	104.04	31.16	13.33	29.7	100	115	P	H
	*	5320	107.42	-	-	92.63	31.16	13.33	29.7	100	115	A	H
		5350.08	60.75	-13.25	74	45.98	31.1	13.38	29.71	100	115	P	H
		5350.08	50.55	-3.45	54	35.78	31.1	13.38	29.71	100	115	A	H
													H
													H
	*	5320	109.5	-	-	94.71	31.16	13.33	29.7	400	307	P	V
	*	5320	98.83	-	-	84.04	31.16	13.33	29.7	400	307	A	V
		5350.08	56.04	-17.96	74	41.27	31.1	13.38	29.71	400	307	P	V
		5350.08	43.98	-10.02	54	29.21	31.1	13.38	29.71	400	307	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE20 Full CH 52 5260MHz		10520	50.32	-17.88	68.2	47.21	39.8	19.49	56.18	100	0	P	H
		15780	46.56	-27.44	74	41.3	37.32	23.4	55.46	100	0	P	H
													H
													H
		10520	48.94	-19.26	68.2	45.83	39.8	19.49	56.18	100	0	P	V
		15780	49.38	-24.62	74	44.12	37.32	23.4	55.46	100	0	P	V
													V
													V
802.11ax HE20 Full CH 60 5300MHz		10600	49.66	-24.34	74	46.45	39.8	19.53	56.12	100	0	P	H
		15900	46.23	-27.77	74	40.72	37.5	23.49	55.48	100	0	P	H
													H
													H
		10600	49.57	-24.43	74	46.36	39.8	19.53	56.12	100	0	P	V
		15900	46.6	-27.4	74	41.09	37.5	23.49	55.48	100	0	P	V
													V
													V
802.11ax HE20 Full CH 64 5320MHz		10640	48.6	-25.4	74	45.34	39.8	19.55	56.09	100	0	P	H
		15960	45.69	-28.31	74	40.33	37.32	23.53	55.49	100	0	P	H
												P	V
												P	V
		10640	48.6	-25.4	74	45.34	39.8	19.55	56.09	100	0	P	H
		15960	45.69	-28.31	74	40.33	37.32	23.53	55.49	100	0	P	H
												P	V
												P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 6+7	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 HE20 Partial 26/8 CH 64 5320MHz	*	5320	123.16	-	-	108.37	31.16	13.33	29.7	100	117	P	H
	*	5320	114.49	-	-	99.7	31.16	13.33	29.7	100	117	A	H
		5356.32	54.89	-19.11	74	40.08	31.13	13.39	29.71	100	117	P	H
		5350.08	43.11	-10.89	54	28.34	31.1	13.38	29.71	100	117	A	H
													H
													H
	*	5320	115.25	-	-	100.46	31.16	13.33	29.7	400	308	P	V
	*	5320	106.31	-	-	91.52	31.16	13.33	29.7	400	308	A	V
		5403.36	54.21	-19.79	74	39.13	31.32	13.47	29.71	400	308	P	V
		5450.24	41.59	-12.41	54	26.2	31.6	13.51	29.72	400	308	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 6+7	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 HE40 Full CH 54 5270MHz		5142.12	53.92	-20.08	74	38.75	31.8	13.04	29.67	100	117	P	H
		5147.22	43.99	-10.01	54	28.82	31.8	13.04	29.67	100	117	A	H
	*	5270	117.67	-	-	102.86	31.26	13.24	29.69	100	117	P	H
	*	5270	107.31	-	-	92.5	31.26	13.24	29.69	100	117	A	H
		5350.08	60.55	-13.45	74	45.78	31.1	13.38	29.71	100	117	P	H
		5350.08	49.08	-4.92	54	34.31	31.1	13.38	29.71	100	117	A	H
		5073.44	55.49	-18.51	74	40.51	31.69	12.95	29.66	400	70	P	V
		5146.54	42.37	-11.63	54	27.2	31.8	13.04	29.67	400	70	A	V
	*	5270	108.55	-	-	93.74	31.26	13.24	29.69	400	70	P	V
	*	5270	98.63	-	-	83.82	31.26	13.24	29.69	400	70	A	V
		5428.08	53.97	-20.03	74	38.73	31.47	13.49	29.72	400	70	P	V
		5350.08	42.39	-11.61	54	27.62	31.1	13.38	29.71	400	70	A	V
802.11ax HE40 Full CH 62 5310MHz		5145.52	54.54	-19.46	74	39.37	31.8	13.04	29.67	100	116	P	H
		5144.5	42.42	-11.58	54	27.25	31.8	13.04	29.67	100	116	A	H
	*	5310	114.19	-	-	99.4	31.18	13.31	29.7	100	116	P	H
	*	5310	103.88	-	-	89.09	31.18	13.31	29.7	100	116	A	H
		5350.08	60.14	-13.86	74	45.37	31.1	13.38	29.71	100	116	P	H
		5357.76	49.88	-4.12	54	35.07	31.13	13.39	29.71	100	116	A	H
		5015.64	53.79	-20.21	74	39.03	31.53	12.88	29.65	350	81	P	V
		5149.94	41.96	-12.04	54	26.78	31.8	13.05	29.67	350	81	A	V
	*	5310	105.87	-	-	91.08	31.18	13.31	29.7	350	81	P	V
	*	5310	95.21	-	-	80.42	31.18	13.31	29.7	350	81	A	V
		5389.68	55.09	-18.91	74	40.09	31.26	13.45	29.71	350	81	P	V
		5356.8	43	-11	54	28.19	31.13	13.39	29.71	350	81	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE40 Full CH 54 5270MHz		10540	48.33	-19.87	68.2	45.2	39.8	19.5	56.17	100	0	P	H
		15810	45.67	-28.33	74	40.39	37.32	23.42	55.46	100	0	P	H
													H
													H
		10540	47.95	-20.25	68.2	44.82	39.8	19.5	56.17	100	0	P	V
		15810	45.54	-28.46	74	40.26	37.32	23.42	55.46	100	0	P	V
													V
													V
802.11ax HE40 Full CH 62 5310MHz		10620	48.05	-25.95	74	44.81	39.8	19.54	56.1	100	0	P	H
		15930	45.18	-28.82	74	39.75	37.41	23.51	55.49	100	0	P	H
													H
													H
		10620	47.71	-26.29	74	44.47	39.8	19.54	56.1	100	0	P	V
		15930	45.59	-28.41	74	40.16	37.41	23.51	55.49	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

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

WIFI Ant. 6+7	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 58 5290MHz		5147.22	55.83	-18.17	74	40.66	31.8	13.04	29.67	100	116	P	H
		5148.24	44.15	-9.85	54	28.97	31.8	13.05	29.67	100	116	A	H
	*	5290	109.7	-	-	94.91	31.22	13.27	29.7	100	116	P	H
	*	5290	100.29	-	-	85.5	31.22	13.27	29.7	100	116	A	H
		5350.56	61.1	-12.9	74	46.33	31.1	13.38	29.71	100	116	P	H
		5358	49.36	-4.64	54	34.55	31.13	13.39	29.71	100	116	A	H
		5076.16	53.59	-20.41	74	38.59	31.7	12.96	29.66	398	67	P	V
		5147.9	42.34	-11.66	54	27.17	31.8	13.04	29.67	398	67	A	V
	*	5290	102.36	-	-	87.57	31.22	13.27	29.7	398	67	P	V
	*	5290	92.22	-	-	77.43	31.22	13.27	29.7	398	67	A	V
		5456.64	53.49	-20.51	74	38.08	31.61	13.52	29.72	398	67	P	V
		5350.32	43.34	-10.66	54	28.57	31.1	13.38	29.71	398	67	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 58 5290MHz		10580	47.8	-20.4	68.2	44.62	39.8	19.52	56.14	100	0	P	H
		15870	45.2	-28.8	74	39.76	37.44	23.47	55.47	100	0	P	H
													H
													H
		10580	47.5	-20.7	68.2	44.32	39.8	19.52	56.14	100	0	P	V
		15870	45.17	-28.83	74	39.73	37.44	23.47	55.47	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 100 5500MHz		5458.16	55.3	-18.7	74	39.88	31.62	13.52	29.72	100	117	P	H
		5469.52	64.64	-3.56	68.2	49.2	31.64	13.53	29.73	100	117	P	H
		5458.8	43.84	-10.16	54	28.42	31.62	13.52	29.72	100	117	A	H
	*	5500	115.58	-	-	100.05	31.7	13.56	29.73	100	117	P	H
	*	5500	108.23	-	-	92.7	31.7	13.56	29.73	100	117	A	H
													H
		5392.88	54.34	-19.66	74	39.32	31.27	13.46	29.71	400	95	P	V
		5461.36	54.17	-14.03	68.2	38.75	31.62	13.52	29.72	400	95	P	V
		5459.28	41.85	-12.15	54	26.43	31.62	13.52	29.72	400	95	A	V
	*	5500	107.35	-	-	91.82	31.7	13.56	29.73	400	95	P	V
	*	5500	100.1	-	-	84.57	31.7	13.56	29.73	400	95	A	V
													V
802.11a CH 116 5580MHz		5455.6	53.81	-20.19	74	38.4	31.61	13.52	29.72	100	118	P	H
		5463.28	53.73	-14.47	68.2	38.3	31.63	13.52	29.72	100	118	P	H
		5459.68	42.69	-11.31	54	27.27	31.62	13.52	29.72	100	118	A	H
	*	5580	119.7	-	-	104.18	31.66	13.62	29.76	100	118	P	H
	*	5580	111.55	-	-	96.03	31.66	13.62	29.76	100	118	A	H
		5736.65	53.92	-14.28	68.2	38.06	31.92	13.76	29.82	100	118	P	H
		5421.76	53.43	-20.57	74	38.23	31.43	13.49	29.72	393	71	P	V
		5467.84	54.2	-14	68.2	38.75	31.64	13.53	29.72	393	71	P	V
		5459.44	41.92	-12.08	54	26.5	31.62	13.52	29.72	393	71	A	V
	*	5580	112.78	-	-	97.26	31.66	13.62	29.76	393	71	P	V
	*	5580	105.03	-	-	89.51	31.66	13.62	29.76	393	71	A	V
		5730.98	53.97	-14.23	68.2	38.14	31.89	13.76	29.82	393	71	P	V



802.11a CH 140 5700MHz	*	5700	112.94	-	-	97.32	31.7	13.73	29.81	100	118	P	H
	*	5700	105.69	-	-	90.07	31.7	13.73	29.81	100	118	A	H
		5725.48	63.56	-4.64	68.2	47.78	31.85	13.75	29.82	100	118	P	H
													H
													H
													H
	*	5700	107.15	-	-	91.53	31.7	13.73	29.81	395	72	P	V
	*	5700	99.85	-	-	84.23	31.7	13.73	29.81	395	72	A	V
		5725.8	59.8	-8.4	68.2	44.02	31.85	13.75	29.82	395	72	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 100 5500MHz		11000	49.26	-24.74	74	45.21	40.1	19.75	55.8	100	0	P	H
		16500	47.65	-20.55	68.2	40.03	39	24.32	55.7	100	0	P	H
													H
													H
		11000	49.62	-24.38	74	45.57	40.1	19.75	55.8	100	0	P	V
		16500	47.31	-20.89	68.2	39.69	39	24.32	55.7	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	48.08	-25.92	74	44.09	39.82	19.87	55.7	100	0	P	H
		16740	48.49	-19.71	68.2	40.1	39.74	24.69	56.04	100	0	P	H
													H
													H
		11160	48.6	-25.4	74	44.61	39.82	19.87	55.7	100	0	P	V
		16740	50.89	-17.31	68.2	42.5	39.74	24.69	56.04	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	48.84	-25.16	74	44.36	40	20.04	55.56	100	0	P	H
		17100	49.47	-18.73	68.2	40.5	40.4	25.11	56.54	100	0	P	H
													H
													H
		11400	48.94	-25.06	74	44.46	40	20.04	55.56	100	0	P	V
		17100	49.01	-19.19	68.2	40.04	40.4	25.11	56.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 6+7	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 HE20 Full CH 100 5500MHz		5459.12	57	-17	74	41.58	31.62	13.52	29.72	100	118	P	H
		5469.2	64.09	-4.11	68.2	48.65	31.64	13.53	29.73	100	118	P	H
		5459.6	44.46	-9.54	54	29.04	31.62	13.52	29.72	100	118	A	H
	*	5500	118.1	-	-	102.57	31.7	13.56	29.73	100	118	P	H
	*	5500	107.49	-	-	91.96	31.7	13.56	29.73	100	118	A	H
		5442.16	55.24	-18.76	74	39.9	31.55	13.51	29.72	400	86	P	V
		5462.64	53.88	-14.32	68.2	38.45	31.63	13.52	29.72	400	86	P	V
		5459.12	42.15	-11.85	54	26.73	31.62	13.52	29.72	400	86	A	V
	*	5500	109.1	-	-	93.58	31.69	13.56	29.73	400	86	P	V
	*	5500	98.81	-	-	83.29	31.69	13.56	29.73	400	86	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5364.16	54.12	-19.88	74	39.26	31.16	13.41	29.71	100	117	P	H
		5467.12	53.85	-14.35	68.2	38.41	31.63	13.53	29.72	100	117	P	H
		5459.44	43.16	-10.84	54	27.74	31.62	13.52	29.72	100	117	A	H
	*	5580	121.94	-	-	106.42	31.66	13.62	29.76	100	117	P	H
	*	5580	112.18	-	-	96.66	31.66	13.62	29.76	100	117	A	H
		5742.32	53.81	-14.39	68.2	37.91	31.95	13.77	29.82	100	117	P	H
		5365.84	55.63	-18.37	74	40.77	31.16	13.41	29.71	400	311	P	V
		5468.8	52.83	-15.37	68.2	37.39	31.64	13.53	29.73	400	311	P	V
		5457.76	42.25	-11.75	54	26.83	31.62	13.52	29.72	400	311	A	V
	*	5580	114.91	-	-	99.39	31.66	13.62	29.76	400	311	P	V
	*	5580	104.77	-	-	89.25	31.66	13.62	29.76	400	311	A	V
		5742.635	54.01	-14.19	68.2	38.1	31.96	13.77	29.82	400	311	P	V



802.11ax HE20 Full CH 140 5700MHz	*	5700	115.74	-	-	100.12	31.7	13.73	29.81	100	118	P	H
	*	5700	104.81	-	-	89.19	31.7	13.73	29.81	100	118	A	H
		5728.84	63.13	-5.07	68.2	47.32	31.87	13.76	29.82	100	118	P	H
													H
													H
													H
	*	5700	109.65	-	-	94.03	31.7	13.73	29.81	397	80	P	V
	*	5700	98.81	-	-	83.19	31.7	13.73	29.81	397	80	A	V
		5732.92	56.72	-11.48	68.2	40.88	31.9	13.76	29.82	397	80	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE20 Full CH 100 5500MHz		11000	48.45	-25.55	74	44.4	40.1	19.75	55.8	100	0	P	H
		16500	47.58	-20.62	68.2	39.96	39	24.32	55.7	100	0	P	H
													H
													H
		11000	48.86	-25.14	74	44.81	40.1	19.75	55.8	100	0	P	V
		16500	48.17	-20.03	68.2	40.55	39	24.32	55.7	100	0	P	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		11160	48.3	-25.7	74	44.31	39.82	19.87	55.7	100	0	P	H
		16740	48.71	-19.49	68.2	40.32	39.74	24.69	56.04	100	0	P	H
													H
													H
		11160	47.75	-26.25	74	43.76	39.82	19.87	55.7	100	0	P	V
		16740	50.21	-17.99	68.2	41.82	39.74	24.69	56.04	100	0	P	V
													V
													V
802.11ax HE20 Full CH 140 5700MHz		11400	48.04	-25.96	74	43.56	40	20.04	55.56	100	0	P	H
		17100	48.57	-19.63	68.2	39.6	40.4	25.11	56.54	100	0	P	H
													H
													H
		11400	48.7	-25.3	74	44.22	40	20.04	55.56	100	0	P	V
		17100	49.37	-18.83	68.2	40.4	40.4	25.11	56.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 6+7	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 HE40 Full CH 102 5510MHz		5459.6	60.67	-13.33	74	45.25	31.62	13.52	29.72	100	117	P	H
		5469.68	64.47	-3.73	68.2	49.03	31.64	13.53	29.73	100	117	P	H
		5458.96	47.79	-6.21	54	32.37	31.62	13.52	29.72	100	117	A	H
	*	5510	113.68	-	-	98.17	31.68	13.56	29.73	100	117	P	H
	*	5510	103.21	-	-	87.7	31.68	13.56	29.73	100	117	A	H
													H
		5423.76	54.56	-19.44	74	39.35	31.44	13.49	29.72	400	86	P	V
		5468.4	56.23	-11.97	68.2	40.78	31.64	13.53	29.72	400	86	P	V
		5460	42.97	-11.03	54	27.55	31.62	13.52	29.72	400	86	A	V
	*	5510	106.43	-	-	90.92	31.68	13.56	29.73	400	86	P	V
	*	5510	95.52	-	-	80.01	31.68	13.56	29.73	400	86	A	V
													V
802.11ax HE40 Full CH 110 5550MHz		5459.92	61.47	-12.53	74	46.05	31.62	13.52	29.72	100	116	P	H
		5469.04	64.56	-3.64	68.2	49.12	31.64	13.53	29.73	100	116	P	H
		5459.68	47.18	-6.82	54	31.76	31.62	13.52	29.72	100	116	A	H
	*	5550	117.51	-	-	102.06	31.6	13.6	29.75	100	116	P	H
	*	5550	107.48	-	-	92.03	31.6	13.6	29.75	100	116	A	H
		5759.96	55.32	-12.88	68.2	39.37	32	13.78	29.83	100	116	P	H
		5449.6	53.87	-20.13	74	38.48	31.6	13.51	29.72	400	67	P	V
		5468.08	55.14	-13.06	68.2	39.69	31.64	13.53	29.72	400	67	P	V
		5459.68	42.93	-11.07	54	27.51	31.62	13.52	29.72	400	67	A	V
	*	5550	109.95	-	-	94.5	31.6	13.6	29.75	400	67	P	V
	*	5550	100.23	-	-	84.78	31.6	13.6	29.75	400	67	A	V
		5753.03	53.61	-14.59	68.2	37.66	32	13.78	29.83	400	67	P	V



802.11ax HE40 Full CH 134 5670MHz		5392.7	53.65	-20.35	74	38.63	31.27	13.46	29.71	100	119	P	H
		5467.25	53.23	-14.97	68.2	37.79	31.63	13.53	29.72	100	119	P	H
		5457.8	42.58	-11.42	54	27.16	31.62	13.52	29.72	100	119	A	H
	*	5670	115.79	-	-	100.24	31.64	13.7	29.79	100	119	P	H
	*	5670	104.01	-	-	88.46	31.64	13.7	29.79	100	119	A	H
		5725.1	64.58	-3.62	68.2	48.8	31.85	13.75	29.82	100	119	P	H
		5411.6	53.94	-20.06	74	38.81	31.37	13.48	29.72	399	83	P	V
		5466.2	52.41	-15.79	68.2	36.97	31.63	13.53	29.72	399	83	P	V
		5448.35	42.09	-11.91	54	26.71	31.59	13.51	29.72	399	83	A	V
	*	5670	107.64	-	-	92.09	31.64	13.7	29.79	399	83	P	V
	*	5670	97.67	-	-	82.12	31.64	13.7	29.79	399	83	A	V
		5743.475	55.47	-12.73	68.2	39.56	31.96	13.77	29.82	399	83	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE40 Full CH 102 5510MHz		11020	48.88	-25.12	74	44.83	40.08	19.76	55.79	100	0	P	H
		16530	47.69	-20.51	68.2	39.95	39.12	24.36	55.74	100	0	P	H
													H
													H
		11020	48.72	-25.28	74	44.67	40.08	19.76	55.79	100	0	P	V
		16530	46.32	-21.88	68.2	38.58	39.12	24.36	55.74	100	0	P	V
													V
													V
802.11ax HE40 Full CH 110 5550MHz		11100	48.1	-25.9	74	44.02	40	19.82	55.74	100	0	P	H
		16650	47.45	-20.75	68.2	39.37	39.45	24.54	55.91	100	0	P	H
													H
													H
		11100	47.59	-26.41	74	43.51	40	19.82	55.74	100	0	P	V
		16650	47.18	-21.02	68.2	39.1	39.45	24.54	55.91	100	0	P	V
													V
													V
802.11ax HE40 Full CH 134 5670MHz		11340	48.44	-25.56	74	44.22	39.82	20	55.6	100	0	P	H
		17010	48.26	-19.94	68.2	39.1	40.49	25.08	56.41	100	0	P	H
													H
													H
		11340	47.71	-26.29	74	43.49	39.82	20	55.6	100	0	P	V
		17010	48.29	-19.91	68.2	39.13	40.49	25.08	56.41	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

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

WIFI Ant. 6+7	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 106 5530MHz		5458.24	61.34	-12.66	74	45.92	31.62	13.52	29.72	100	116	P	H
		5468.08	61.77	-6.43	68.2	46.32	31.64	13.53	29.72	100	116	P	H
		5458	50.25	-3.75	54	34.83	31.62	13.52	29.72	100	116	A	H
	*	5530	107.53	-	-	92.05	31.64	13.58	29.74	100	116	P	H
	*	5530	98.07	-	-	82.59	31.64	13.58	29.74	100	116	A	H
		5736.02	54.18	-14.02	68.2	38.32	31.92	13.76	29.82	100	116	P	H
		5453.44	54.93	-19.07	74	39.52	31.61	13.52	29.72	399	85	P	V
		5468.32	55	-13.2	68.2	39.55	31.64	13.53	29.72	399	85	P	V
		5459.92	44.03	-9.97	54	28.61	31.62	13.52	29.72	399	85	A	V
	*	5530	99.93	-	-	84.45	31.64	13.58	29.74	399	85	P	V
	*	5530	90.13	-	-	74.65	31.64	13.58	29.74	399	85	A	V
		5725	54.69	-13.51	68.2	38.91	31.85	13.75	29.82	399	85	P	V
802.11ax HE80 Full CH 122 5610MHz		5459.2	63.22	-10.78	74	47.8	31.62	13.52	29.72	100	118	P	H
		5469	63.22	-4.98	68.2	47.78	31.64	13.53	29.73	100	118	P	H
		5459.2	50.04	-3.96	54	34.62	31.62	13.52	29.72	100	118	A	H
	*	5610	113.31	-	-	97.75	31.68	13.65	29.77	100	118	P	H
	*	5610	103.37	-	-	87.81	31.68	13.65	29.77	100	118	A	H
		5729.475	63.85	-4.35	68.2	48.03	31.88	13.76	29.82	100	118	P	H
		5453.6	54.97	-19.03	74	39.56	31.61	13.52	29.72	100	235	P	V
		5465.85	54.86	-13.34	68.2	39.42	31.63	13.53	29.72	100	235	P	V
		5457.45	44.2	-9.8	54	28.79	31.61	13.52	29.72	100	235	A	V
	*	5610	107.07	-	-	91.51	31.68	13.65	29.77	100	235	P	V
	*	5610	96.9	-	-	81.34	31.68	13.65	29.77	100	235	A	V
		5726.325	58.74	-9.46	68.2	42.95	31.86	13.75	29.82	100	235	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 106 5530MHz		11060	48.19	-25.81	74	44.12	40.04	19.79	55.76	100	0	P	H
		16590	46.62	-21.58	68.2	38.64	39.36	24.45	55.83	100	0	P	H
													H
													H
		11060	47.8	-26.2	74	43.73	40.04	19.79	55.76	100	0	P	V
		16590	47.15	-21.05	68.2	39.17	39.36	24.45	55.83	100	0	P	V
													V
													V
802.11ax HE80 Full CH 122 5610MHz		11220	47.54	-26.46	74	43.6	39.7	19.91	55.67	100	0	P	H
		16830	46.34	-21.86	68.2	37.43	40.25	24.82	56.16	100	0	P	H
													H
													H
		11220	47.95	-26.05	74	44.01	39.7	19.91	55.67	100	0	P	V
		16830	46.09	-22.11	68.2	37.18	40.25	24.82	56.16	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Bandedge @ 3m)

WIFI Ant. 1+2	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 114 5570MHz		5440	61.36	-12.64	74	46.04	31.54	13.5	29.72	100	120	P	H
		5463.76	61.22	-6.98	68.2	45.79	31.63	13.52	29.72	100	120	A	H
		5448.64	50.43	-3.57	54	35.05	31.59	13.51	29.72	100	120	P	H
	*	5570	102.27	-	-	86.78	31.64	13.61	29.76	100	120	A	H
	*	5570	92.8	-	-	77.31	31.64	13.61	29.76	100	120	P	H
		5737.595	55.58	-12.62	68.2	39.71	31.93	13.76	29.82	100	120	A	H
		5427.76	55.5	-18.5	74	40.26	31.47	13.49	29.72	399	311	P	V
		5465.68	55.18	-13.02	68.2	39.74	31.63	13.53	29.72	399	311	A	V
		5456.8	44.13	-9.87	54	28.72	31.61	13.52	29.72	399	311	P	V
	*	5570	96.22	-	-	80.73	31.64	13.61	29.76	399	311	A	V
	*	5570	86.39	-	-	70.9	31.64	13.61	29.76	399	311	P	V
		5743.895	54.84	-13.36	68.2	38.93	31.96	13.77	29.82	399	311	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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 114 5570MHz		11140	48.29	-25.71	74	44.28	39.88	19.85	55.72	100	0	P	H
		16710	49.87	-18.33	68.2	41.67	39.56	24.63	55.99	100	0	P	H
													H
													H
		11140	49.01	-24.99	74	45	39.88	19.38	55.72	100	0	P	V
		16710	49.24	-18.96	68.2	41.04	39.56	24.15	55.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11a (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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5418.25	54.86	-19.14	74	39.68	31.41	13.49	29.72	100	119	P	H
		5466.61	53.94	-14.26	68.2	38.5	31.63	13.53	29.72	100	119	P	H
		5457.25	42.03	-11.97	54	26.62	31.61	13.52	29.72	100	119	A	H
	*	5720	118.84	-	-	103.08	31.82	13.75	29.81	100	119	P	H
	*	5720	110.9	-	-	95.14	31.82	13.75	29.81	100	119	A	H
		5887	57.72	-10.48	68.2	41.62	32.17	13.81	29.88	100	119	P	H
		5371.45	55.16	-18.84	74	40.26	31.19	13.42	29.71	101	233	P	V
		5466.22	54.39	-13.81	68.2	38.95	31.63	13.53	29.72	101	233	P	V
		5454.13	41.94	-12.06	54	26.53	31.61	13.52	29.72	101	233	A	V
	*	5720	114.28	-	-	98.52	31.82	13.75	29.81	101	233	P	V
	*	5720	106.1	-	-	90.34	31.82	13.75	29.81	101	233	A	V
		5937	56.42	-11.78	68.2	40.24	32.27	13.81	29.9	101	233	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 6+7	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)
802.11a CH 144 5720MHz		11440	48.4	-25.6	74	43.91	39.96	19.6	55.54	100	0	P	H
		17160	50.08	-18.12	68.2	40.93	40.64	24.63	56.62	100	0	P	H
													H
													H
		11440	48.72	-25.28	74	44.23	39.96	19.6	55.54	100	0	P	V
		17160	49.41	-18.79	68.2	40.26	40.64	24.63	56.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 6+7	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 HE20 Full CH 144 5720MHz		5401.87	54.99	-19.01	74	39.92	31.31	13.47	29.71	101	119	P	H
		5459.98	54.03	-19.97	74	38.61	31.62	13.52	29.72	101	119	P	H
		5448.28	42.21	-11.79	54	26.83	31.59	13.51	29.72	101	119	A	H
	*	5720	120.15	-	-	104.39	31.82	13.75	29.81	101	119	P	H
	*	5720	110.96	-	-	95.2	31.82	13.75	29.81	101	119	A	H
		5949.5	56.76	-11.44	68.2	40.55	32.3	13.81	29.9	101	119	P	H
		5447.11	55.39	-18.61	74	40.02	31.58	13.51	29.72	100	236	P	V
		5460.37	54.64	-13.56	68.2	39.22	31.62	13.52	29.72	100	236	P	V
		5451.79	42	-12	54	26.61	31.6	13.51	29.72	100	236	A	V
	*	5720	115.84	-	-	100.08	31.82	13.75	29.81	100	236	P	V
	*	5720	105.88	-	-	90.12	31.82	13.75	29.81	100	236	A	V
		5925.5	56.71	-11.49	68.2	40.54	32.25	13.81	29.89	100	236	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE20 Full CH 144 5720MHz		11440	49.31	-24.69	74	44.82	39.96	20.07	55.54	100	0	P	H
		17160	47.59	-20.61	68.2	38.44	40.64	25.13	56.62	100	0	P	H
													H
													H
		11440	48.94	-25.06	74	44.45	39.96	20.07	55.54	100	0	P	V
		17160	47.56	-20.64	68.2	38.41	40.64	25.13	56.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 6+7	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 HE40 Full CH 142 5710MHz		5423.32	54.98	-19.02	74	39.77	31.44	13.49	29.72	101	119	P	H
		5468.56	55.57	-12.63	68.2	40.12	31.64	13.53	29.72	101	119	P	H
		5456.47	42.51	-11.49	54	27.1	31.61	13.52	29.72	101	119	A	H
	*	5710	117.72	-	-	102.03	31.76	13.74	29.81	101	119	P	H
	*	5710	108.08	-	-	92.39	31.76	13.74	29.81	101	119	A	H
		5921.75	57.96	-10.24	68.2	41.8	32.24	13.81	29.89	101	119	P	H
		5391.34	54.94	-19.06	74	39.93	31.27	13.45	29.71	101	235	P	V
		5463.1	54.55	-13.65	68.2	39.12	31.63	13.52	29.72	101	235	P	V
		5458.42	42.06	-11.94	54	26.64	31.62	13.52	29.72	101	235	A	V
	*	5710	112.83	-	-	97.14	31.76	13.74	29.81	101	235	P	V
	*	5710	102.91	-	-	87.22	31.76	13.74	29.81	101	235	A	V
		5862.75	56.7	-11.5	68.2	40.63	32.13	13.81	29.87	101	235	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 HE40 Full CH 142 5710MHz		11420	48.38	-25.62	74	43.89	39.98	20.06	55.55	100	0	P	H
		17130	49.38	-18.82	68.2	40.32	40.52	25.12	56.58	100	0	P	H
													H
													H
		11420	48.81	-25.19	74	44.32	39.98	20.06	55.55	100	0	P	V
		17130	48.43	-19.77	68.2	39.37	40.52	25.12	56.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 6+7	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 138 5690MHz		5445.16	57.94	-16.06	74	42.58	31.57	13.51	29.72	100	119	P	H
		5467.39	59.81	-8.39	68.2	44.37	31.63	13.53	29.72	100	119	P	H
		5458.42	46.31	-7.69	54	30.89	31.62	13.52	29.72	100	119	A	H
	*	5690	115.04	-	-	99.44	31.68	13.72	29.8	100	119	P	H
	*	5690	105.09	-	-	89.49	31.68	13.72	29.8	100	119	A	H
		5850.5	63.79	-4.41	68.2	47.74	32.1	13.81	29.86	100	119	P	H
		5422.93	55.86	-18.14	74	40.65	31.44	13.49	29.72	100	232	P	V
		5459.98	55.29	-18.71	74	39.87	31.62	13.52	29.72	100	232	P	V
		5456.86	42.57	-11.43	54	27.16	31.61	13.52	29.72	100	232	A	V
	*	5690	109.42	-	-	93.82	31.68	13.72	29.8	100	232	P	V
	*	5690	98.46	-	-	82.86	31.68	13.72	29.8	100	232	A	V
		5864.25	57.01	-11.19	68.2	40.94	32.13	13.81	29.87	100	232	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 6+7	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 138 5690MHz		11380	48.52	-25.48	74	44.12	39.94	20.03	55.57	100	0	P	H
		17070	48.82	-19.38	68.2	39.79	40.43	25.1	56.5	100	0	P	H
													H
													H
		11380	47.9	-26.1	74	43.5	39.94	20.03	55.57	100	0	P	V
		17070	48.02	-20.18	68.2	38.99	40.43	25.1	56.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		94.99	28.56	-14.94	43.5	44.41	15.29	1.49	32.63	-	-	P	H
		189.08	34.68	-8.82	43.5	50.3	15	2.26	32.88	100	0	P	H
		425.76	26.01	-19.99	46	31.97	22.99	3.49	32.44	-	-	P	H
		583.87	28.01	-17.99	46	30.71	25.82	4.15	32.67	-	-	P	H
		717.73	37.02	-8.98	46	37.77	27.1	4.63	32.48	-	-	P	H
		824.43	33.87	-12.13	46	33.28	28.33	5.01	32.75	-	-	P	H
													H
													H
													H
													H
													H
													H
		96.93	32.01	-11.49	43.5	47.42	15.7	1.51	32.62	-	-	P	V
		188.11	31.5	-12	43.5	47.09	15.03	2.25	32.87	-	-	P	V
		450.98	26.27	-19.73	46	31.94	23.26	3.59	32.52	-	-	P	V
		582.9	29.98	-16.02	46	32.71	25.79	4.15	32.67	-	-	P	V
		730.34	34.87	-11.13	46	34.98	27.78	4.65	32.54	100	0	P	V
		897.18	32	-14	46	30	29.14	5.29	32.43	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is 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.	
6+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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

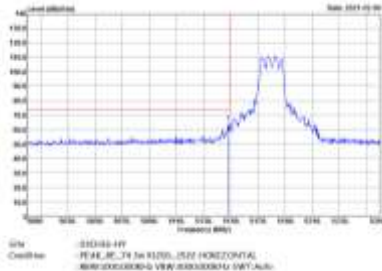
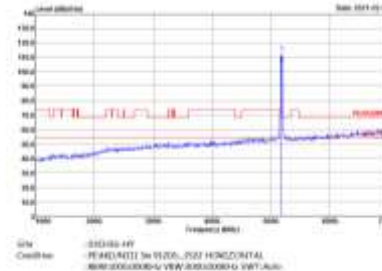
Test Engineer :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

Note symbol

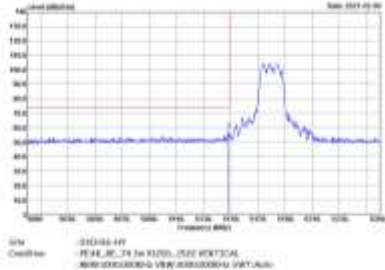
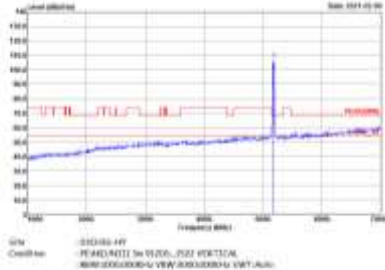
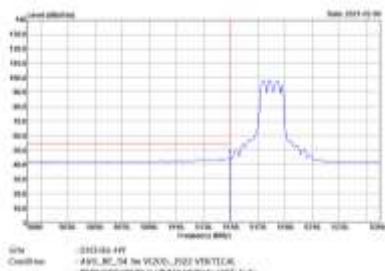
-L	Low channel location
-R	High channel location



Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Horizontal	Fundamental
Peak	 Site : 010300-4FF Condition : PEAK_PT in VISO_3027 HORIZONTAL Resolution: 900 kHz, 900 kHz, 900 kHz, 900 kHz, 900 kHz	 Site : 010300-4FF Condition : PEAK_PT in VISO_3027 HORIZONTAL Resolution: 900 kHz, 900 kHz, 900 kHz, 900 kHz, 900 kHz
Avg.	 Site : 010300-4FF Condition : AVG_PT in VISO_3027 HORIZONTAL Resolution: 900 kHz, 900 kHz, 900 kHz, 900 kHz, 900 kHz	Left blank

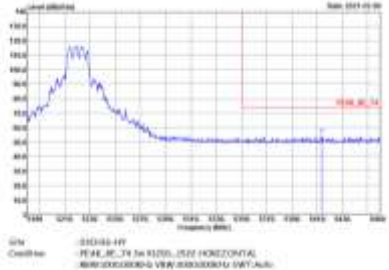


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

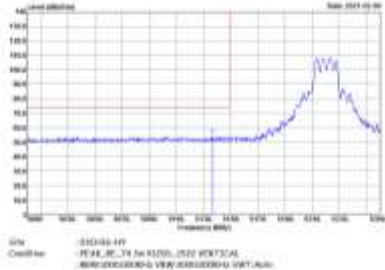
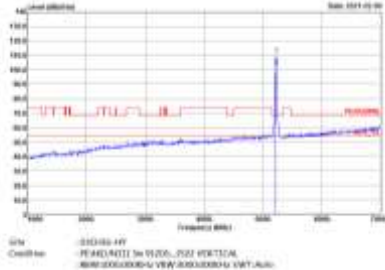


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
6+7	Horizontal	Fundamental
Peak	Title: 5220 MHz Scale: 100.00 dBm Units: dBm Resolution: 100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm	Title: 5220 MHz Scale: 100.00 dBm Units: dBm Resolution: 100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm
Avg.	Title: 5220 MHz Scale: 100.00 dBm Units: dBm Resolution: 100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm Peak: 5220 MHz, -100.00 dBm	Left blank

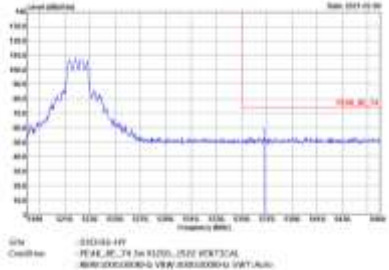


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

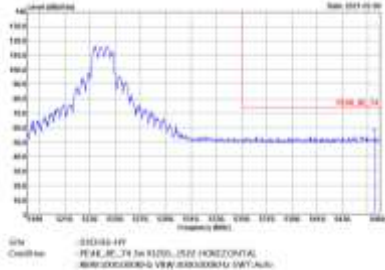
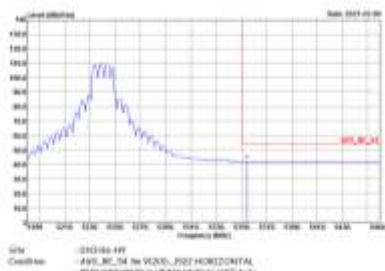


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

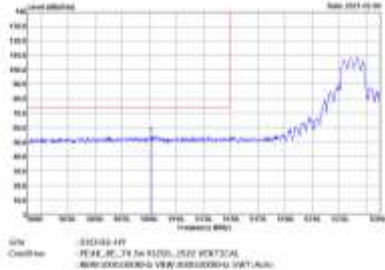
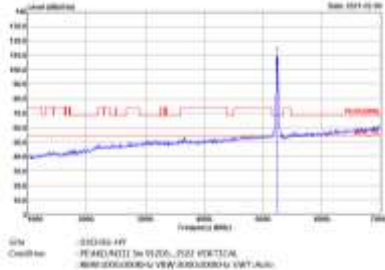
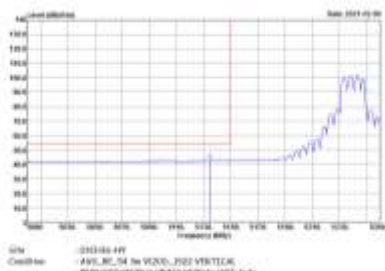


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

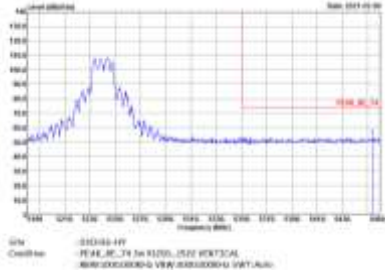
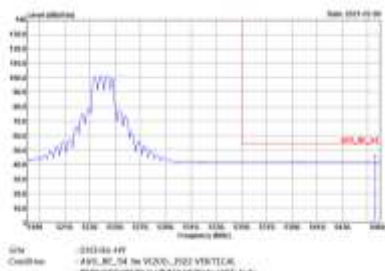


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



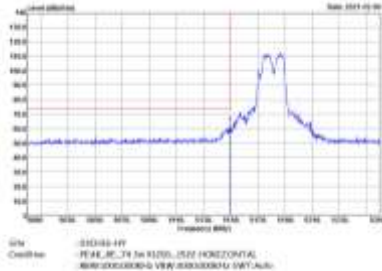
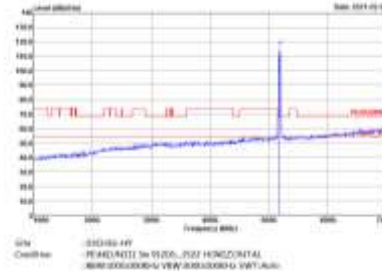
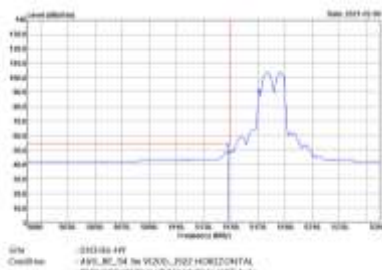
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



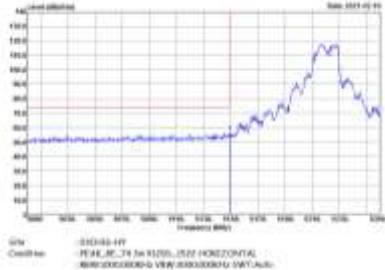
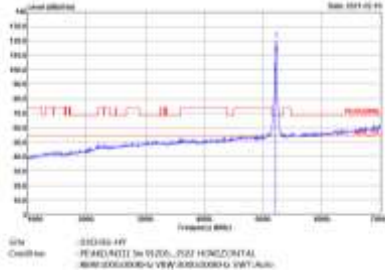
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

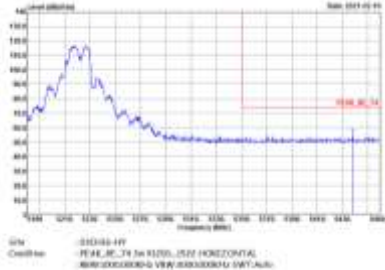


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-447 Condition : PEAK_ME_7M 5m VSWR_100Z HORIZONTAL #0000000000-VSWR#00000000-VSWR-Auto	 Site : 010100-447 Condition : PEAK_ME_7M 5m VSWR_100Z HORIZONTAL #0000000000-VSWR#00000000-VSWR-Auto
Avg.	 Site : 010100-447 Condition : AVG_ME_7M 5m VSWR_100Z HORIZONTAL #0000000000-VSWR#00000000-VSWR-Auto	Left blank

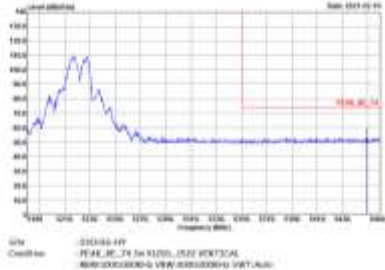


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

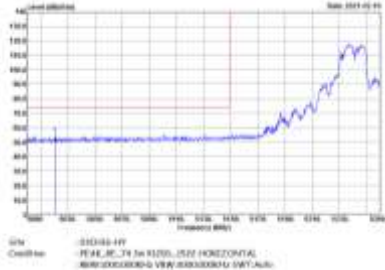
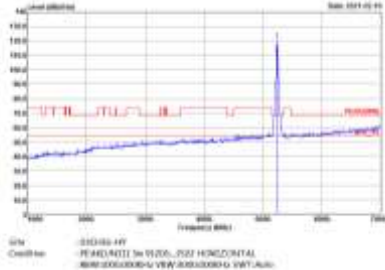


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

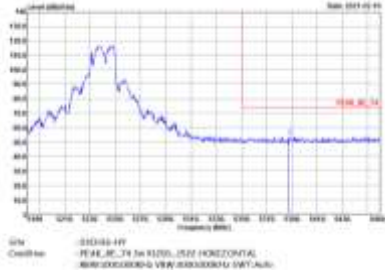


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-417 Credit to : PEAK_ME_7M 5m VISOV_702Z HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto	 Site : 010100-417 Credit to : PEAK_ME_7M 5m VISOV_702Z HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto
Avg.	 Site : 010100-417 Credit to : AVG_ME_7M 5m VISOV_702Z HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto	Left blank

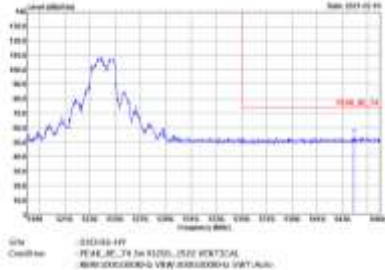


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



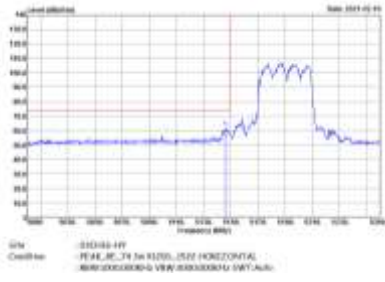
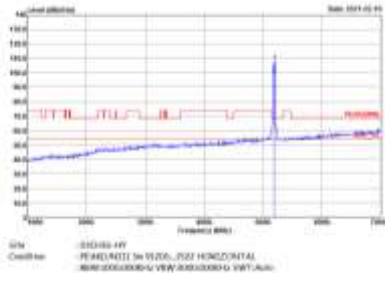
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



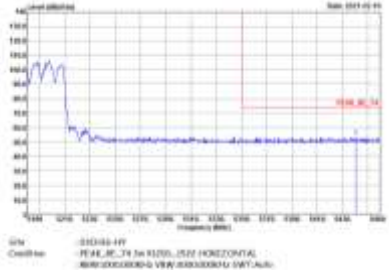
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

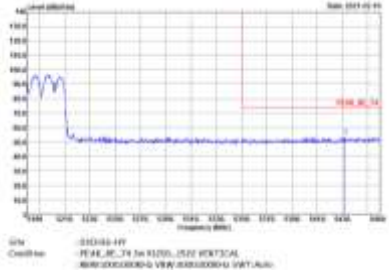


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
6+7	Horizontal	Fundamental
Peak	 Unit : dBm Condition : :5150-5250 MHz :PEAK_ME_74 5m VOLTAGE, 100% HORIZONTAL :RANGE 500000000 VSWR 500000000 VSWR	Left blank
Avg.	 Unit : dBm Condition : :5150-5250 MHz :AVG_ME_74 5m VOLTAGE, 100% HORIZONTAL :RANGE 500000000 VSWR 500000000 VSWR	Left blank

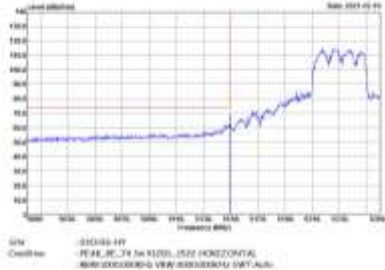
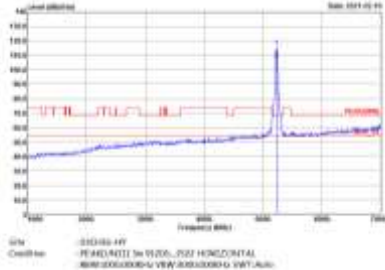
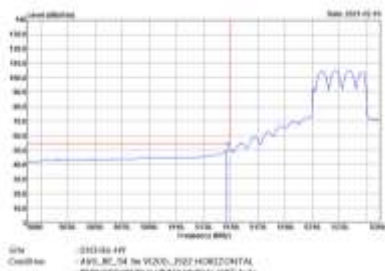


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

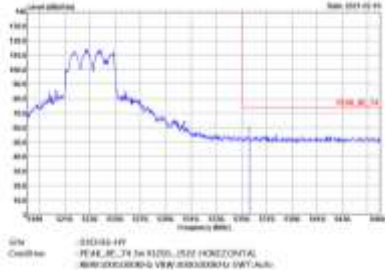


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

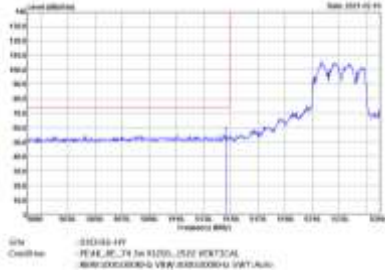
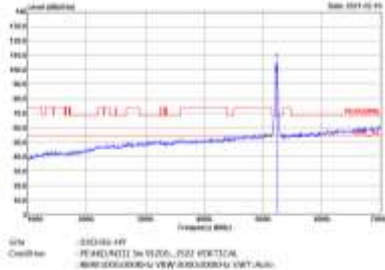


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-417 Condition : PEAK_ME_7M In VCOV_702 HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto	 Site : 010100-417 Condition : PEAK_ME_7M In VCOV_702 HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto
Avg.	 Site : 010100-417 Condition : AVG_ME_7M In VCOV_702 HORIZONTAL #000000000000 VSWR:0.00000000 VSWR:Auto	Left blank

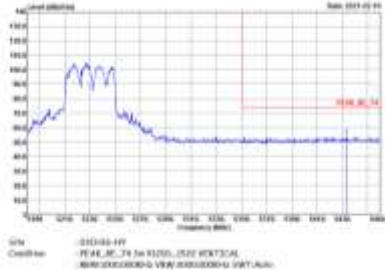


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

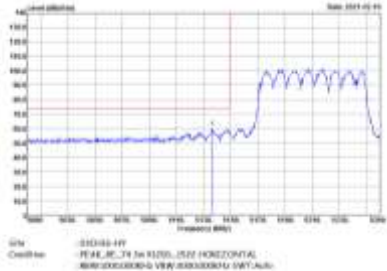
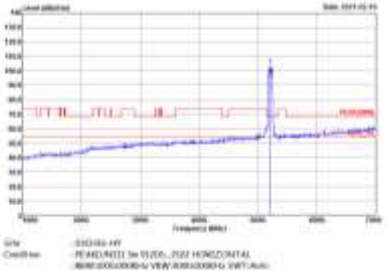
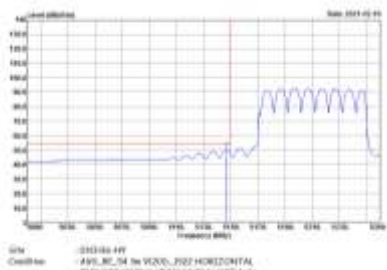


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

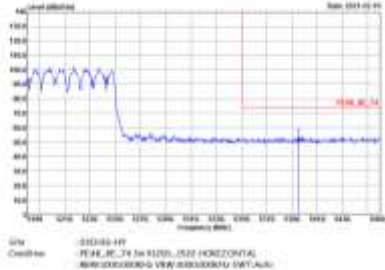
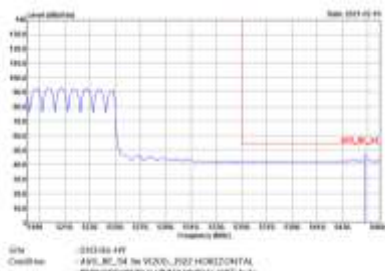


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

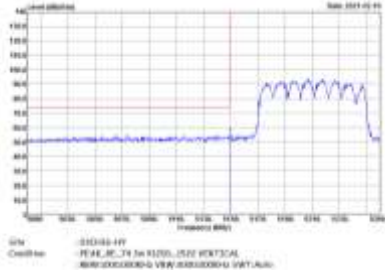
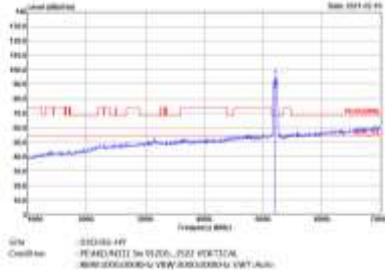
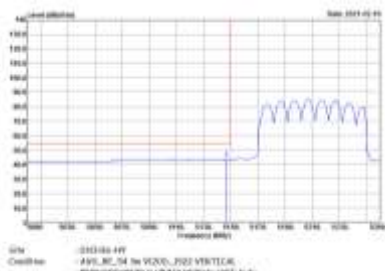
Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
6+7	Horizontal	Fundamental
Peak	 Unit: dBm/40Hz Condition: PEAK, 100% BW, 100% HORIZONTAL Band: 5150.000000~5250.000000 MHz, 100% BW, 100% HORIZONTAL	 Unit: dBm/40Hz Condition: PEAK, 100% BW, 100% HORIZONTAL Band: 5150.000000~5250.000000 MHz, 100% BW, 100% HORIZONTAL
Avg.	 Unit: dBm/40Hz Condition: AVG, 100% BW, 100% HORIZONTAL Band: 5150.000000~5250.000000 MHz, 100% BW, 100% HORIZONTAL	Left blank

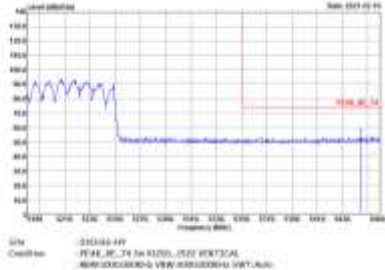


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



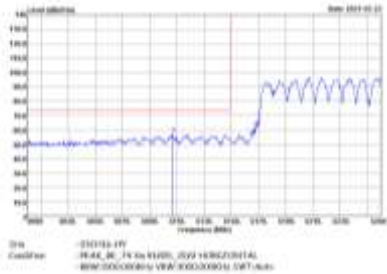
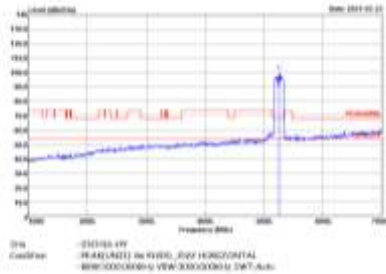
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



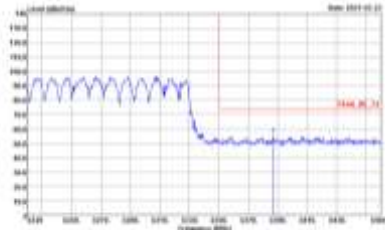
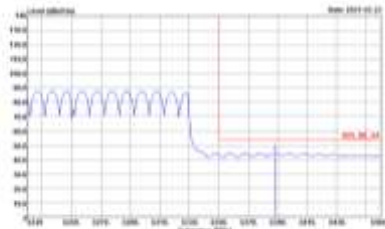
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



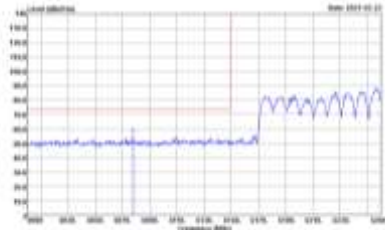
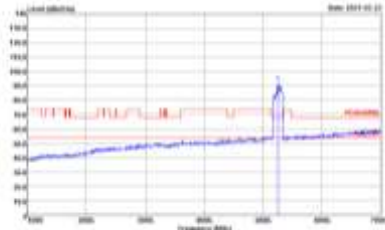
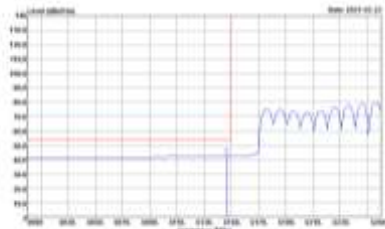
Band 1 5150~5250MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
1+2	Horizontal	Fundamental
Peak	 2019-05-21 -520.00 VV PEAK, BE, 100 Hz, 5150, 5250 HORIZONTAL BW=30000000 VWA=30000000 0.001 auto	 2019-05-21 -520.00 VV PEAK, (AET) 100 Hz, 5150, 5250 HORIZONTAL BW=30000000 VWA=30000000 0.001 auto
Avg.	 2019-05-21 -520.00 VV Avg, BE, 100 Hz, 5150, 5250 HORIZONTAL BW=30000000 VWA=30000000 0.001 auto	Left blank

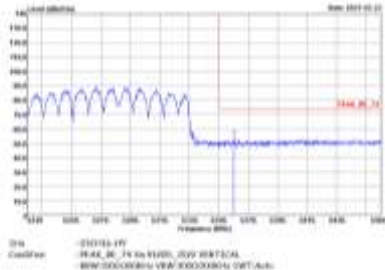


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
1+2	Horizontal	Fundamental
Peak	 File: 20240511-117 Condition: 802.11ax HE160 Full CH50 5250MHz - R BW: 5000000 Hz VFA: 3000000 Hz SFT: 0.00	Left blank
Avg.	 File: 20240511-117 Condition: 802.11ax HE160 Full CH50 5250MHz - R BW: 5000000 Hz VFA: 3000000 Hz SFT: 0.00	Left blank



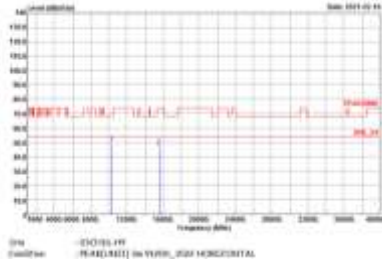
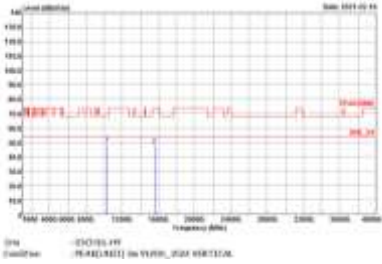
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

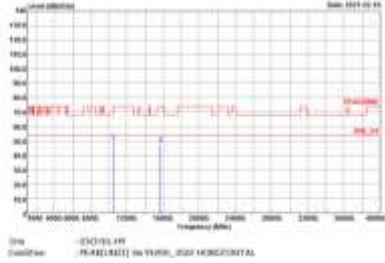
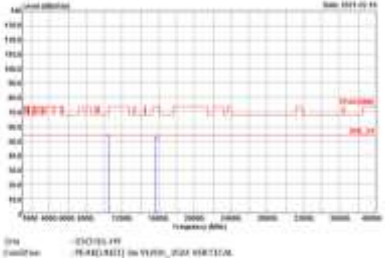


Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
6+7	Horizontal	Vertical
Peak Avg.		

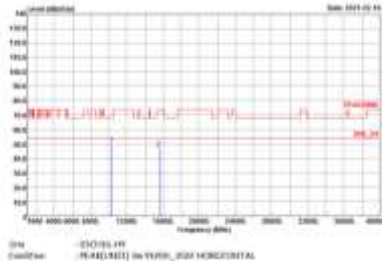
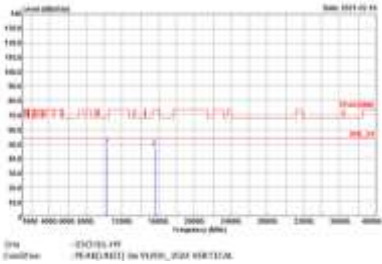
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
6+7	Horizontal	Vertical
Peak Avg.		



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
6+7	Horizontal	Vertical
Peak Avg.		

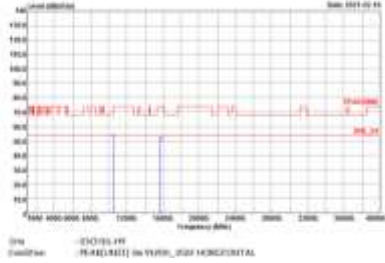
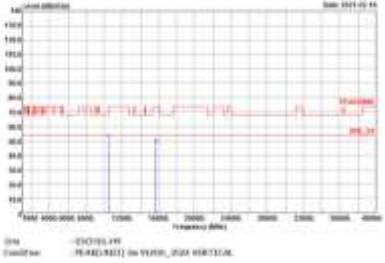


Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
6+7	Horizontal	Vertical
Peak Avg.		

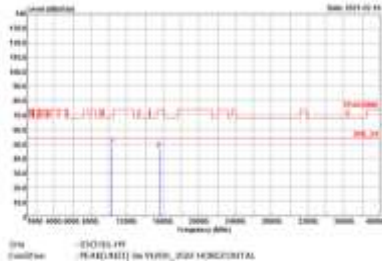
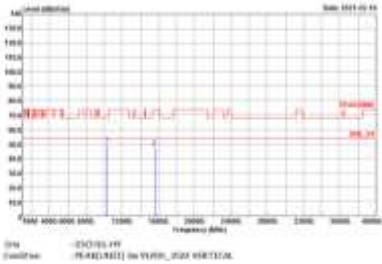
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
6+7	Horizontal	Vertical
Peak Avg.	Unit: dBm/MHz Scale: 1001-02-01 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 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dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 dBm/MHz 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 Frequency (MHz) 140 130 120 110 100 90 80 70 60 50 40 30 20 10 	



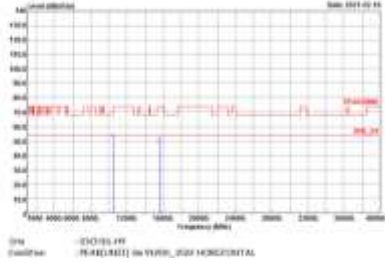
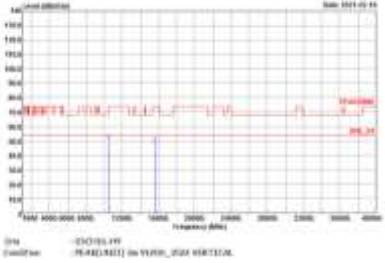
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
6+7	Horizontal	Vertical
Peak Avg.		



Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

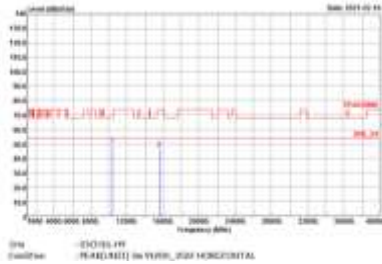
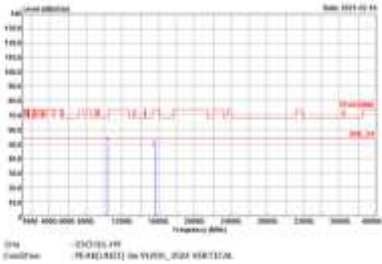
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
6+7	Horizontal	Vertical
Peak Avg.		



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
6+7	Horizontal	Vertical
Peak Avg.	 (1) (S) (0.1 Hz) (2) (A) (0.1 Hz) (in VVPR_0204 HORIZONTAL)	 (1) (S) (0.1 Hz) (2) (A) (0.1 Hz) (in VVPR_0204 VERTICAL)

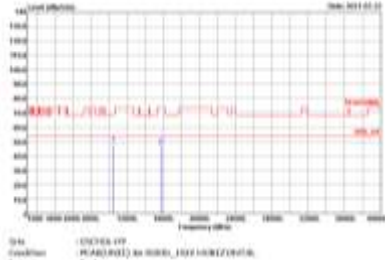
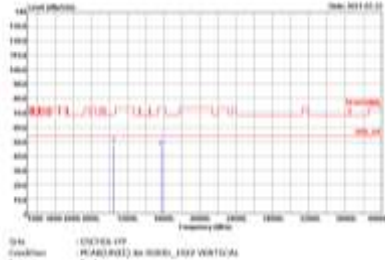


Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
6+7	Horizontal	Vertical
Peak Avg.		



Band 1 5150~5250MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

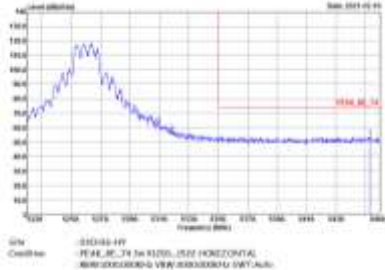
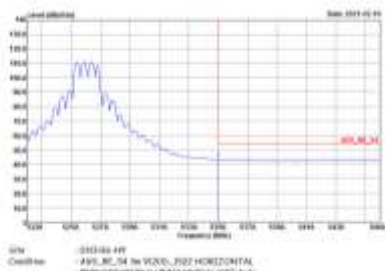
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 - 5250~5350MHz

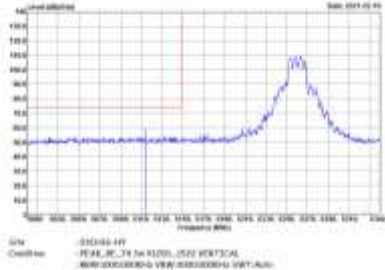
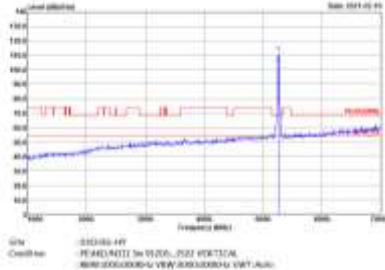
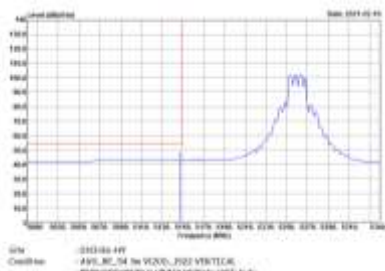
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

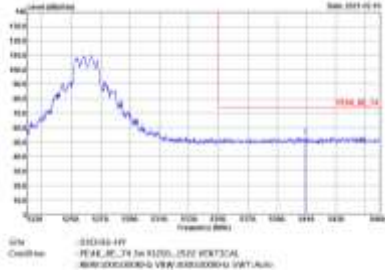
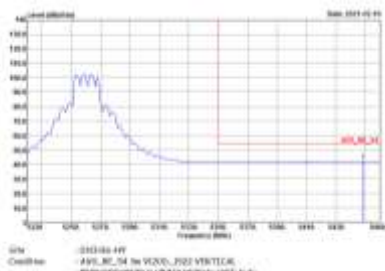


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

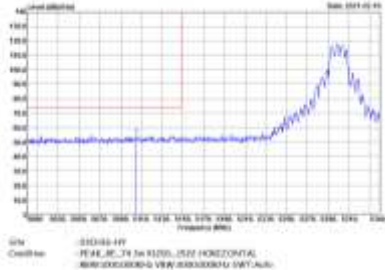
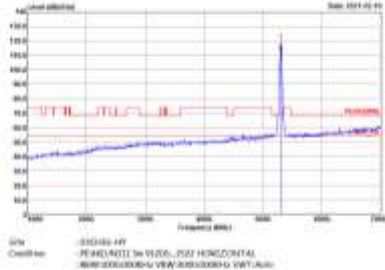
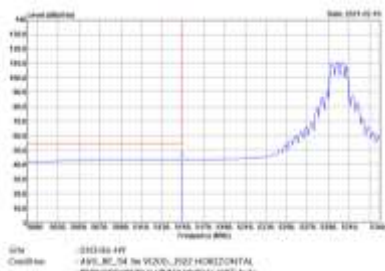


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

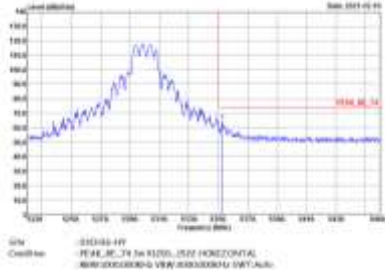
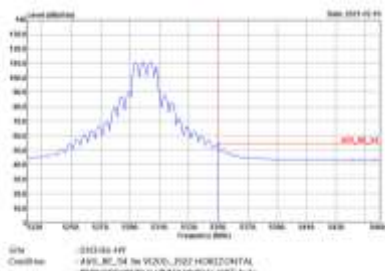


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-417 Condition : PEAK_ME_7M 1m VSWR_100Z HORIZONTAL #000000000000 VSWR#00000000 VSWR#Auto	 Site : 010100-417 Condition : PEAK_FUNDI 1m VSWR_100Z HORIZONTAL #000000000000 VSWR#00000000 VSWR#Auto
Avg.	 Site : 010100-417 Condition : AVG_ME_7M 1m VSWR_100Z HORIZONTAL #000000000000 VSWR#00000000 VSWR#Auto	Left blank

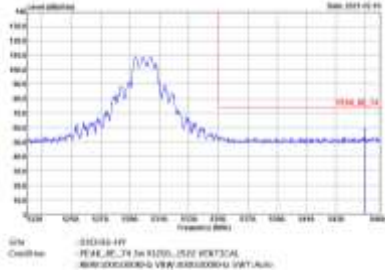
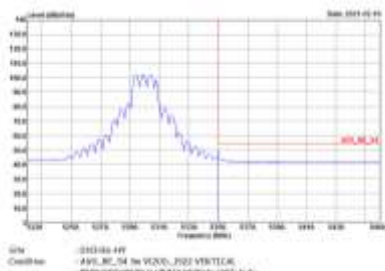


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

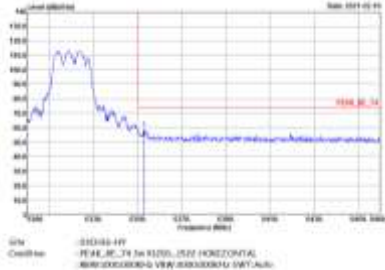
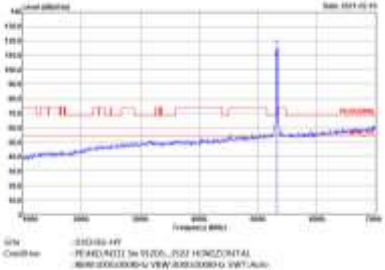


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

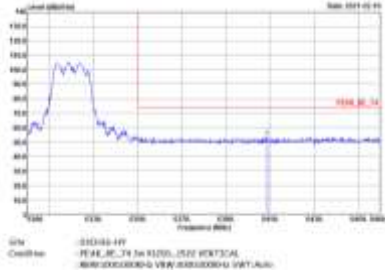
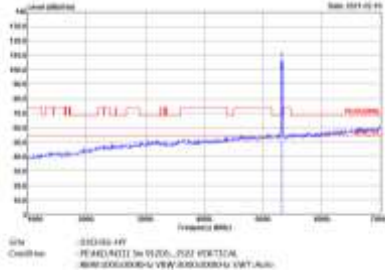


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



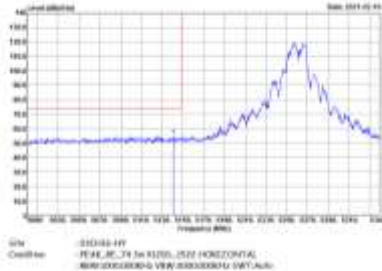
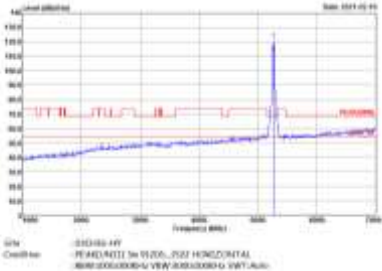
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-417 Credit to : PEAL_NC_74 5m VSWR_100Z HORIZONTAL #00000000-0 VIEW 0000000-0 VSWR Auto	 Site : 010100-417 Credit to : PEAL_NC_74 5m VSWR_100Z HORIZONTAL #00000000-0 VIEW 0000000-0 VSWR Auto
Avg.	 Site : 010100-417 Credit to : PEAL_NC_74 5m VSWR_100Z HORIZONTAL #00000000-0 VIEW 0000000-0 VSWR Auto	Left blank



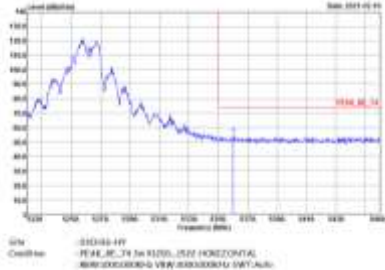
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



Band 2 5250~5350MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

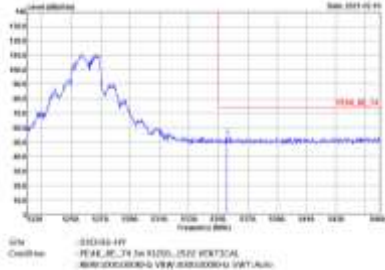


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



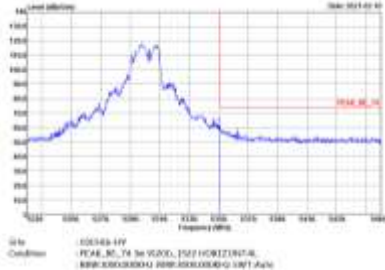
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - L	
6+7	Horizontal	Fundamental
Peak	Site: 02000-000 Condition: PEAK_74 5m 10000, 1000 HORIZONTAL BW: 0.00000000 0.00000000 0.00000000 0.00000000	Site: 02000-000 Condition: PEAK_74 5m 10000, 1000 HORIZONTAL BW: 0.00000000 0.00000000 0.00000000 0.00000000
Avg.	Site: 02000-000 Condition: AVE_74 5m 10000, 1000 HORIZONTAL BW: 0.00000000 0.00000000 0.00000000 0.00000000	Left blank

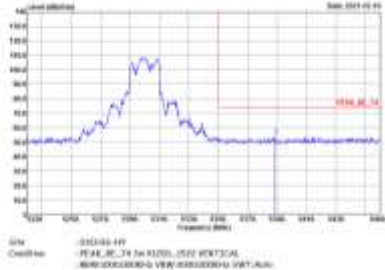


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

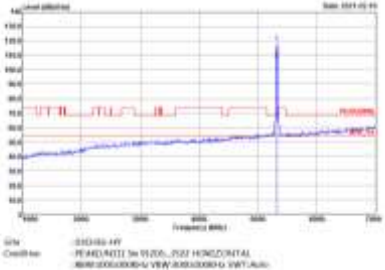


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

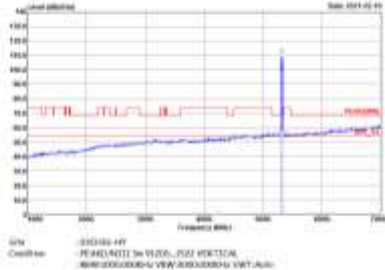


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
6+7	Horizontal	Fundamental
Peak	 Site : 010100-4FF Condition : PEAK_ME_74 In VCOV_702 HORIZONTAL #00000000-0 VIEW 0000000-0 VMT Auto	 Site : 010100-4FF Condition : PEAK_ME_74 In VCOV_702 HORIZONTAL #00000000-0 VIEW 0000000-0 VMT Auto
Avg.	 Site : 010100-4FF Condition : AVG_ME_74 In VCOV_702 HORIZONTAL #00000000-0 VIEW 0000000-0 VMT Auto	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



Band 2 - 5250~5350MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

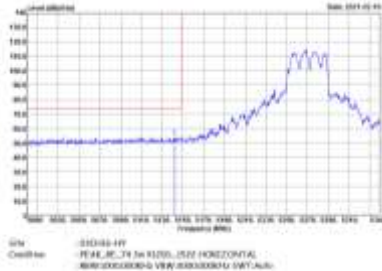
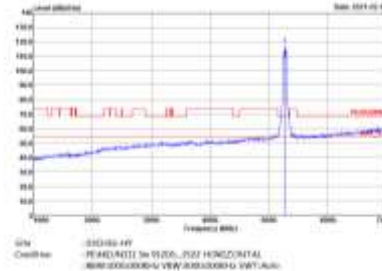
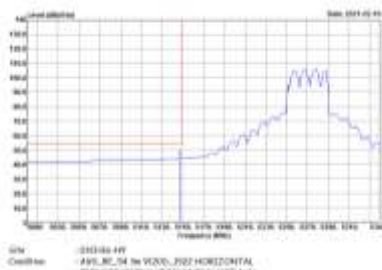
[illegible]



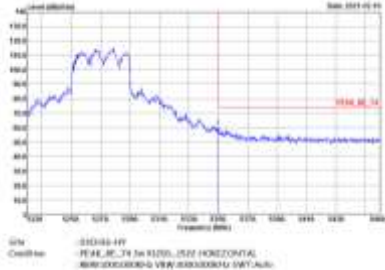
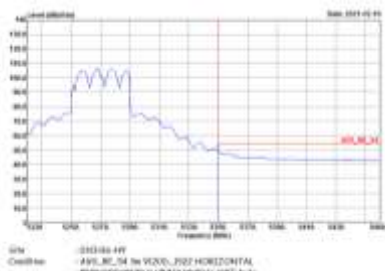
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH64 5320MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



Band 2 5250~5350MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH54 5270 - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

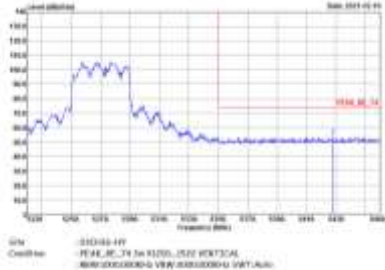


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH54 5270 - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



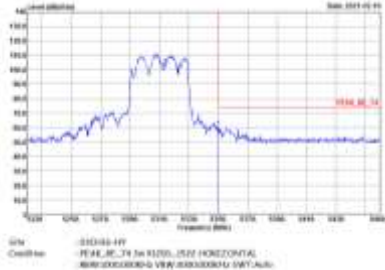
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH54 5270 - L	
6+7	Vertical	Fundamental
Peak	SMA : DSD-80-AFF Cursor: PEAK_0C_78 In VIEW, FREQ VERTICAL AVER SMOOTHING VIEW: SMOOTHING OFF/AUTO	SMA : DSD-80-AFF Cursor: PEAK_0C_78 In VIEW, FREQ VERTICAL AVER SMOOTHING VIEW: SMOOTHING OFF/AUTO
Avg.	SMA : DSD-80-AFF Cursor: AVG_0C_54 In VIEW, FREQ VERTICAL AVER SMOOTHING VIEW: SMOOTHING OFF/AUTO	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH54 5270 - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

[illegible]

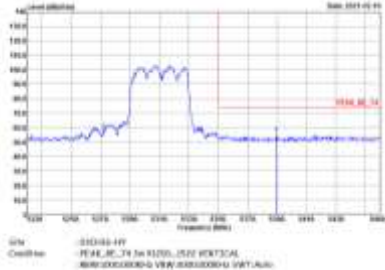


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



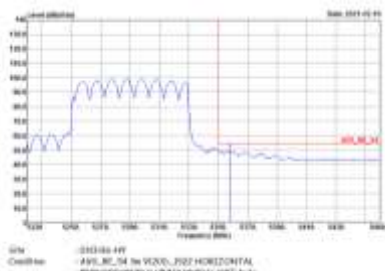
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



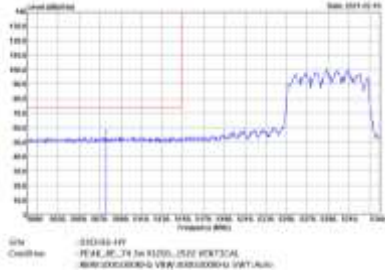
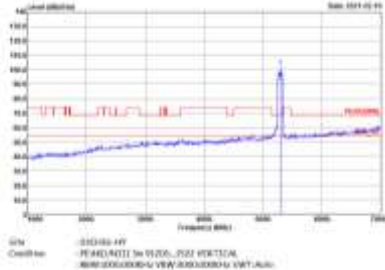
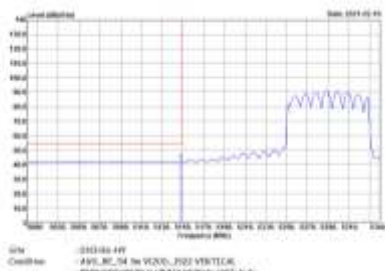
Band 2 5250~5350MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

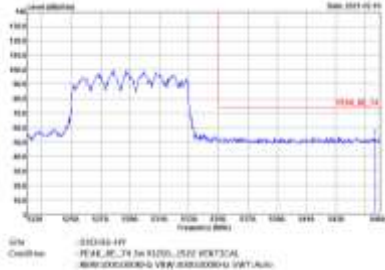
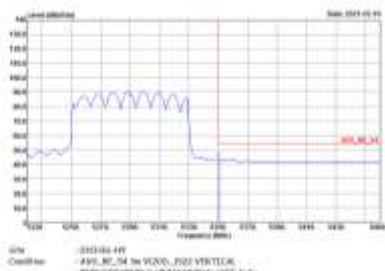


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



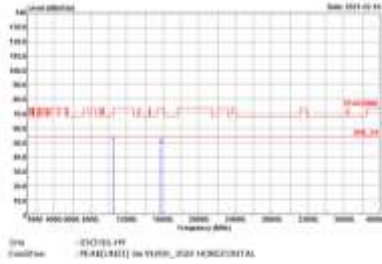
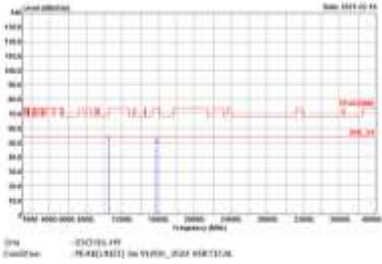
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



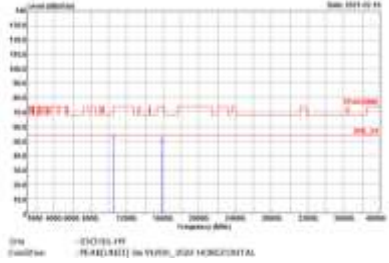
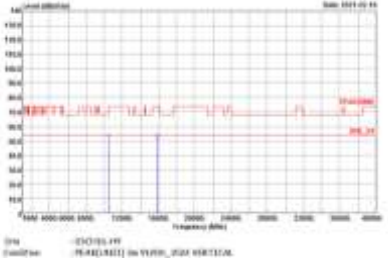
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



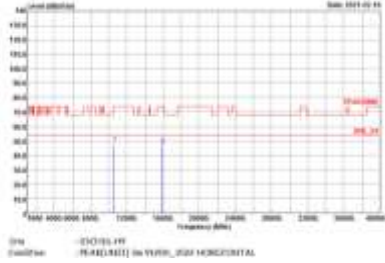
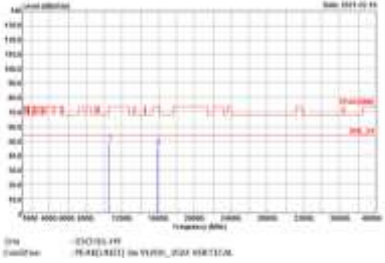
Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
6+7	Horizontal	Vertical
Peak Avg.		



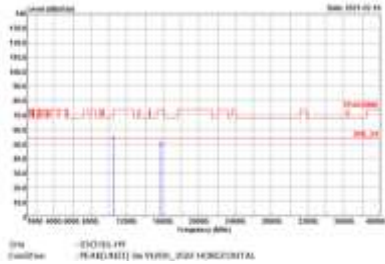
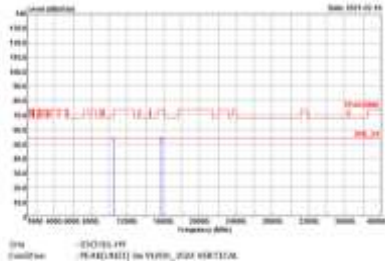
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
6+7	Horizontal	Vertical
Peak Avg.		



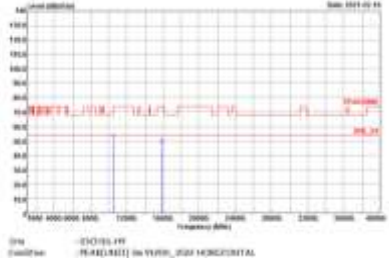
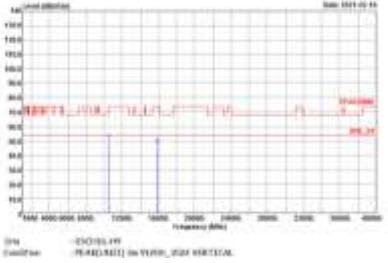
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
6+7	Horizontal	Vertical
Peak Avg.		



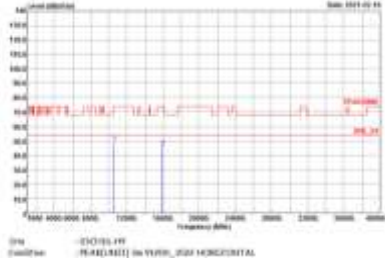
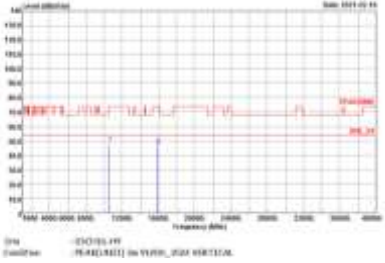
Band 2 5250~5350MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz	
6+7	Horizontal	Vertical
Peak Avg.		



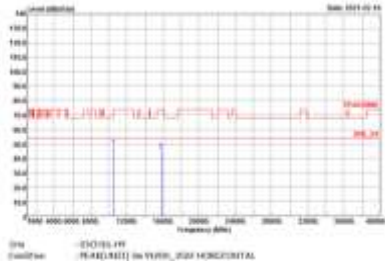
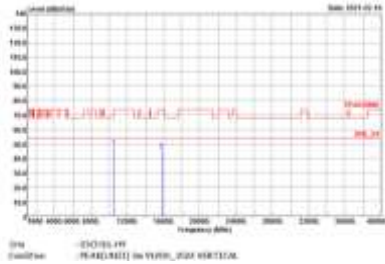
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz	
6+7	Horizontal	Vertical
Peak Avg.		



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
6+7	Horizontal	Vertical
Peak Avg.		



Band 2 - 5250~5350MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

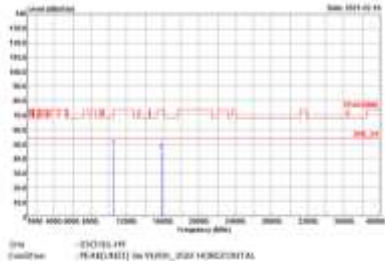
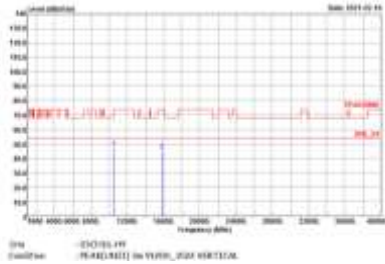
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH54 5270	
6+7	Horizontal	Vertical
Peak Avg.		



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH62 5310	
6+7	Horizontal	Vertical
Peak Avg.		

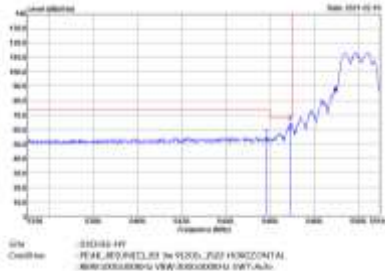
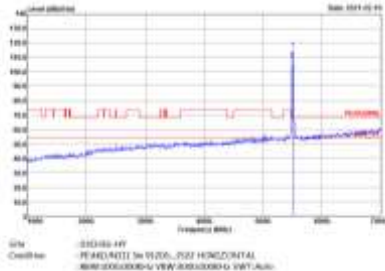
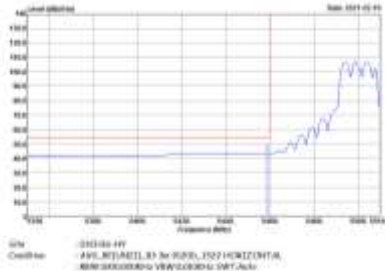


Band 2 5250~5350MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

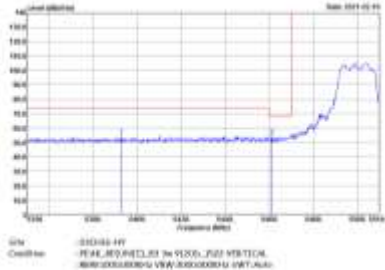
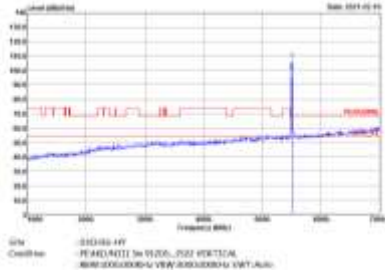
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH58 5290MHz	
6+7	Horizontal	Vertical
Peak Avg.		



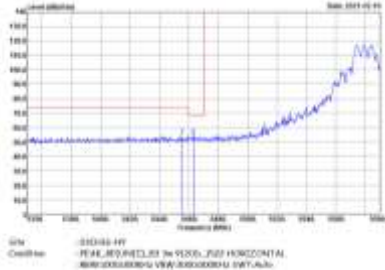
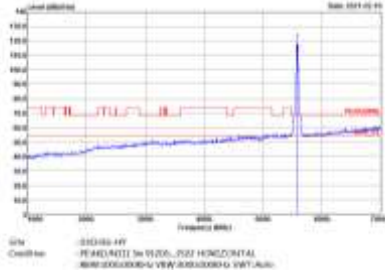
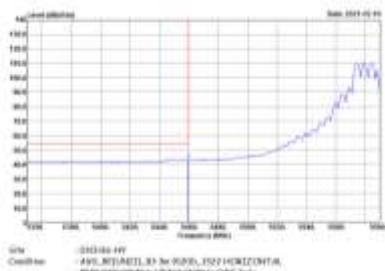
Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

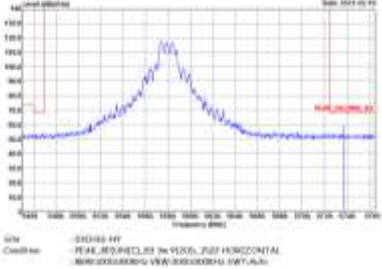


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

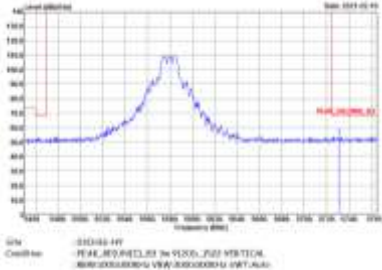


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank

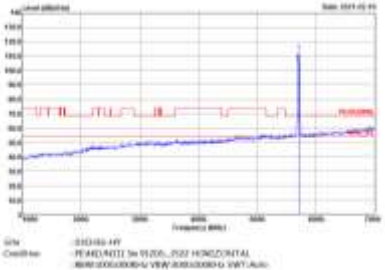


WIFI		Band 3 5470~5725MHz Band Edge @ 3m	
ANT		802.11a CH116 5580MHz - L	
6+7	Vertical	Fundamental	
Peak	Power (dBm) Frequency (MHz) Peak 5580 MHz	Power (dBm) Frequency (MHz) Fundamental 5580 MHz	
Avg.	Power (dBm) Frequency (MHz) Avg 5580 MHz	Left blank	

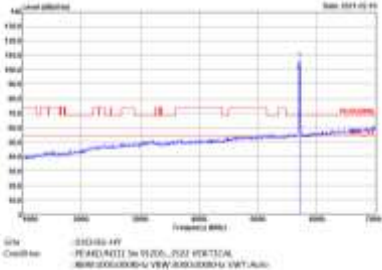


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



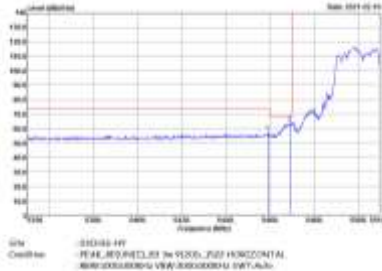
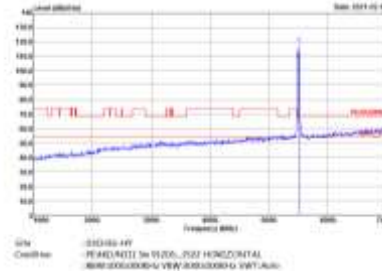
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
6+7	Horizontal	Fundamental
Peak	 Spectrum Analyzer Date: 2011-01-01 Spectrum Analyzer Date: 2011-01-01	 Spectrum Analyzer Date: 2011-01-01 Spectrum Analyzer Date: 2011-01-01



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
6+7	Vertical	Fundamental
Peak		



Band 3 5470~5725MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

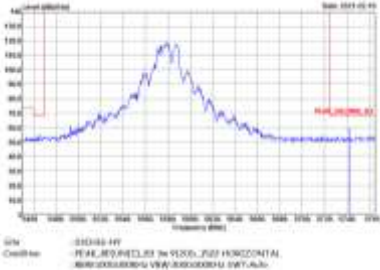
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

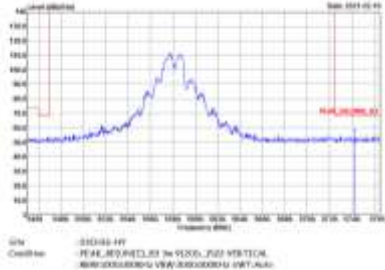
[illegible]



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH116 5580MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH116 5580MHz - L	
6+7	Vertical	Fundamental
Peak	Site: 202105-20 Coord: 202105-20 202105-20-20 202105-20-20 202105-20-20	Site: 202105-20 Coord: 202105-20 202105-20-20 202105-20-20 202105-20-20
Avg.	Site: 202105-20 Coord: 202105-20 202105-20-20 202105-20-20 202105-20-20	Left blank

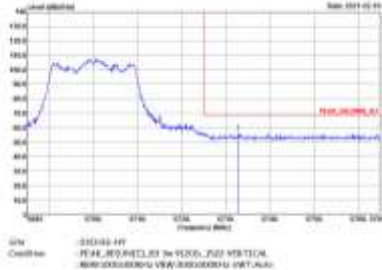
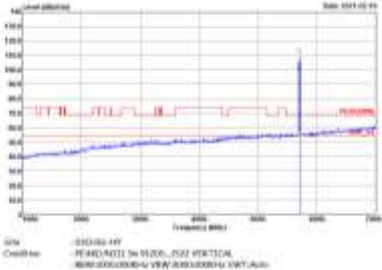


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH116 5580MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



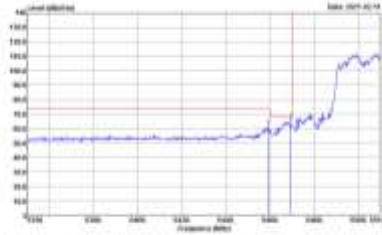
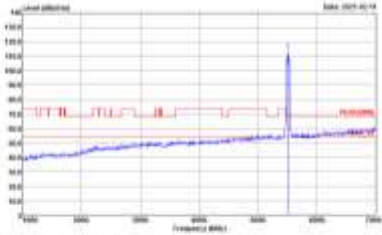
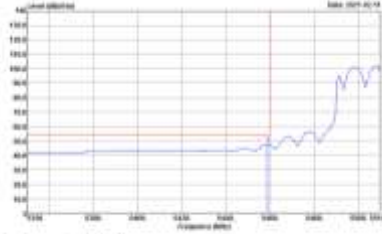
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
6+7	Horizontal	Fundamental
Peak	File: 20230811_01_01 Create: 20230811_01_01 Comment: PEAK_80211AX_HE20_Full_CH140_HORIZONTAL	File: 20230811_01_01 Create: 20230811_01_01 Comment: PEAK_80211AX_HE20_Full_CH140_FUNDAMENTAL



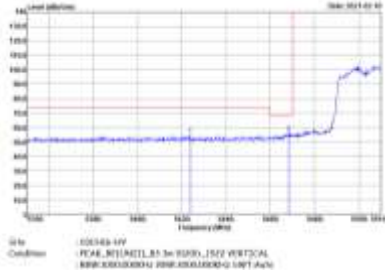
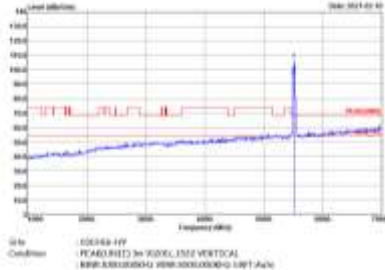
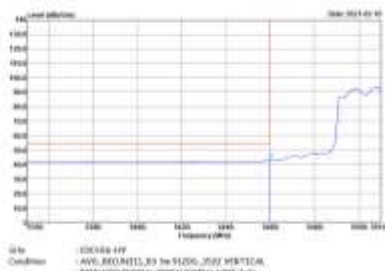
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
6+7	Vertical	Fundamental
Peak		



Band 3 - 5470~5725MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

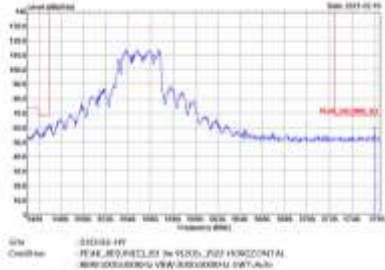
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - L	
6+7	Horizontal	Fundamental
Peak	 Unit: dBm Condition: :010:00:44Y PEAK: PEAK DETECTED in VIEW, FULL HORIZONTAL ANALYZER: ANALYZER VIEW: ANALYZER VIEW: AUTO	 Unit: dBm Condition: :010:00:44Y PEAK: PEAK DETECTED in VIEW, FULL HORIZONTAL ANALYZER: ANALYZER VIEW: ANALYZER VIEW: AUTO
Avg.	 Unit: dBm Condition: :010:00:44Y AVG: AVG DETECTED in VIEW, FULL HORIZONTAL ANALYZER: ANALYZER VIEW: ANALYZER VIEW: AUTO	Left blank



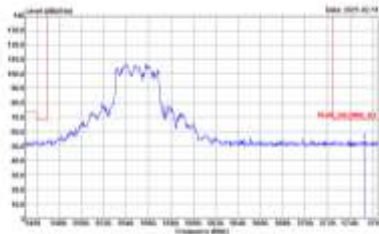
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank

[illegible]

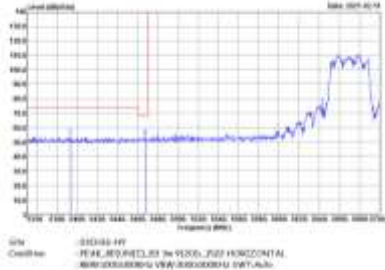
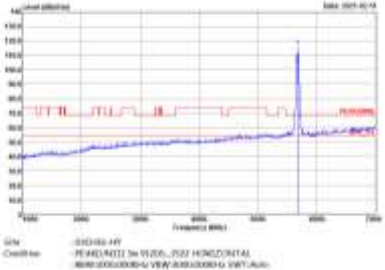
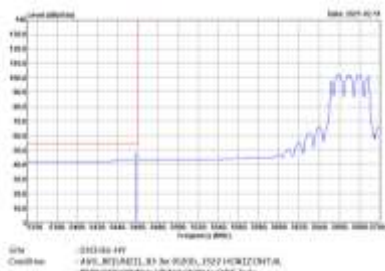


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH110 5550MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH110 5550MHz - L	
6+7	Vertical	Fundamental
Peak	Site : DSD-HS-APP Coordination : PEAK_DETECT_802_11ax_VERTICAL Note: DSD-HS-APP is VERTICAL to LEFT Axis.	Site : DSD-HS-APP Coordination : PEAK_DETECT_802_11ax_VERTICAL Note: DSD-HS-APP is VERTICAL to LEFT Axis.
Avg.	Site : DSD-HS-APP Coordination : AVG_DETECT_802_11ax_VERTICAL Note: DSD-HS-APP is VERTICAL to LEFT Axis.	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH110 5550MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - L	
6+7	Horizontal	Fundamental
Peak		
Avg.		Left blank

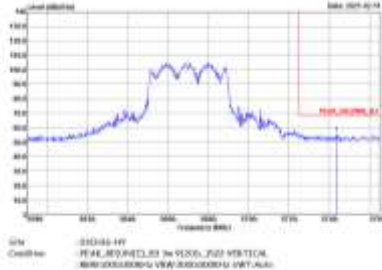


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank



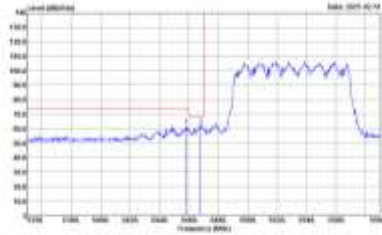
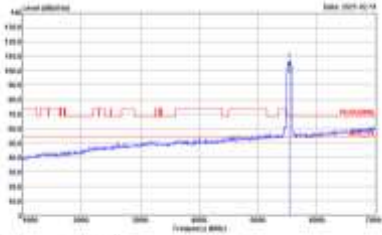
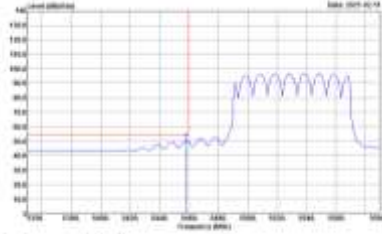
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



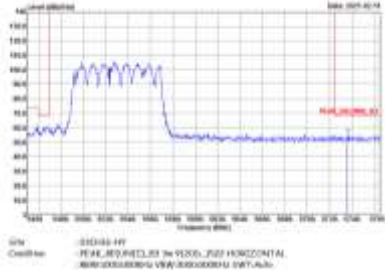
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



Band 3 5470~5725MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

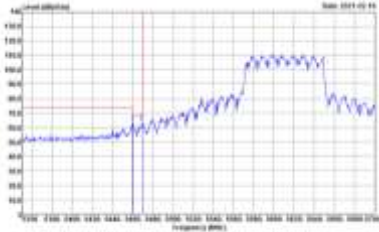
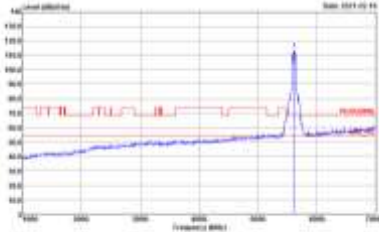
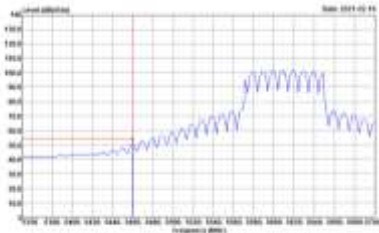
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
6+7	Horizontal	Fundamental
Peak	 Unit: dBm Condition: PEAK, REFERENCE IN VIEW, 202 HORIZONTAL, BAND EDGE @ 3m, VIEW: 300000 Hz, SWT: Auto	 Unit: dBm Condition: PEAK, REFERENCE IN VIEW, 202 HORIZONTAL, BAND EDGE @ 3m, VIEW: 300000 Hz, SWT: Auto
Avg.	 Unit: dBm Condition: AVG, REFERENCE IN VIEW, 202 HORIZONTAL, BAND EDGE @ 3m, VIEW: 300000 Hz, SWT: Auto	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank

[illegible]



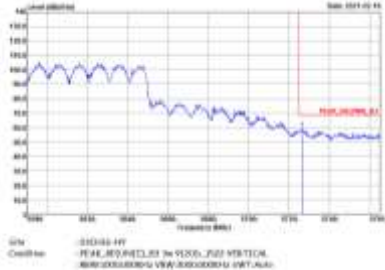
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - L	
6+7	Horizontal	Fundamental
Peak	 GHz: 5.610000 Crest: 140.00 Peak: 140.00 dBm at 5610.00 MHz Noise: -100.00 dBm at 5610.00 MHz	 GHz: 5.610000 Crest: 140.00 Peak: 140.00 dBm at 5610.00 MHz Noise: -100.00 dBm at 5610.00 MHz
Avg.	 GHz: 5.610000 Crest: 140.00 Peak: 140.00 dBm at 5610.00 MHz Noise: -100.00 dBm at 5610.00 MHz	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - L	
6+7	Vertical	Fundamental
Peak	Site: 2021-03-15 Coord: 2021-03-15 Peak 2021-03-15 Peak 2021-03-15 Peak 2021-03-15	Site: 2021-03-15 Coord: 2021-03-15 Fundamental 2021-03-15 Fundamental 2021-03-15 Fundamental 2021-03-15
Avg.	Site: 2021-03-15 Coord: 2021-03-15 Avg 2021-03-15 Avg 2021-03-15 Avg 2021-03-15	Left blank

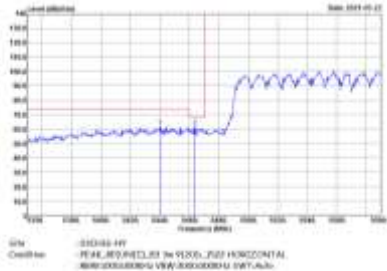
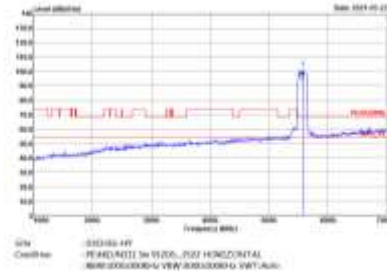
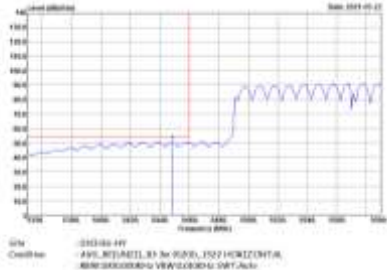


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank

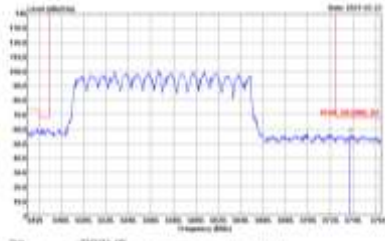


Band 3 5470~5725MHz

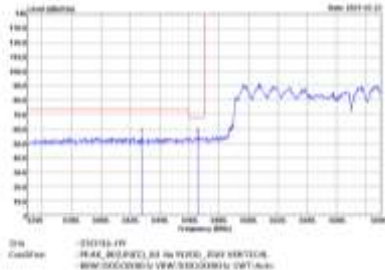
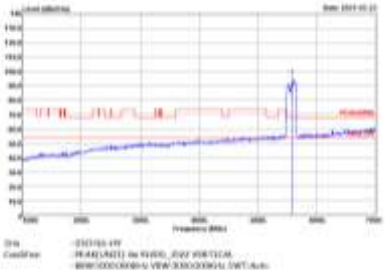
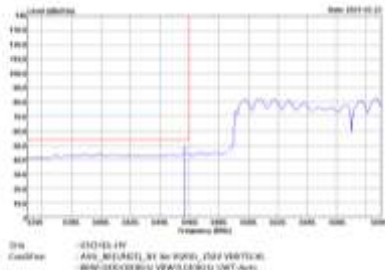
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

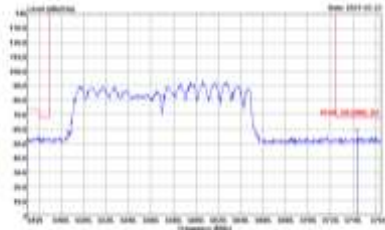


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - L	
1+2	Vertical	Fundamental
Peak	 File: 010124-11F Condition: 802.11ax HE160 Full CH114 5570MHz - L BW: 3000000 Hz VFA: 3000000 Hz SFT: auto	 File: 010124-11F Condition: 802.11ax HE160 Full CH114 5570MHz - L BW: 3000000 Hz VFA: 3000000 Hz SFT: auto
Avg.	 File: 010124-11F Condition: 802.11ax HE160 Full CH114 5570MHz - L BW: 3000000 Hz VFA: 3000000 Hz SFT: auto	Left blank



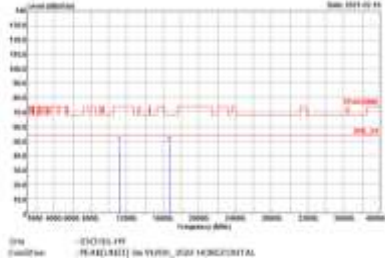
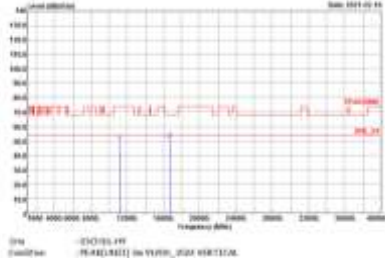
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz - R	
1+2	Vertical	Fundamental
Peak	 Peak	Left blank



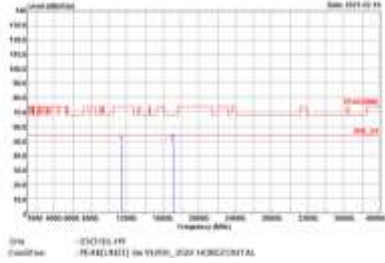
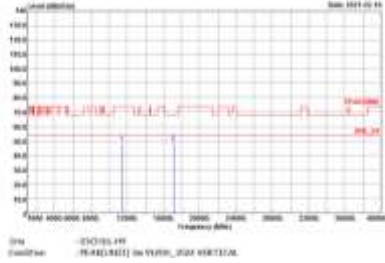
Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
6+7	Horizontal	Vertical
Peak Avg.		



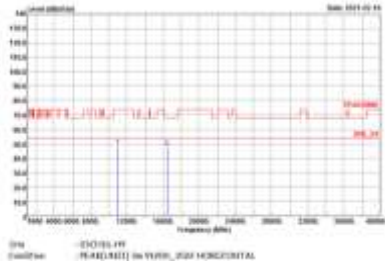
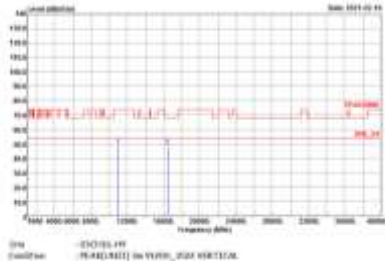
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
6+7	Horizontal	Vertical
Peak Avg.	 (F1) (S) (S) 499 (F1-A) (S) (S) 100 VVHF_0204 HORIZONTAL	 (F1) (S) (S) 499 (F1-A) (S) (S) 100 VVHF_0204 VERTICAL



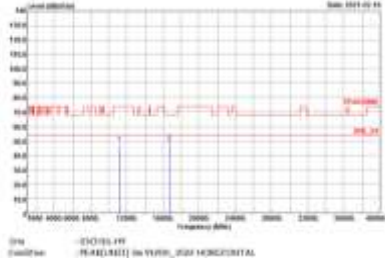
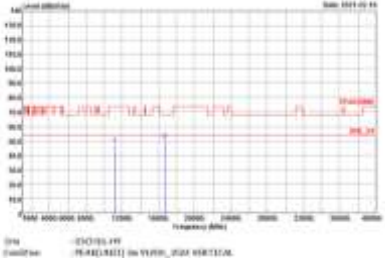
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
6+7	Horizontal	Vertical
Peak Avg.	 (1) (S) (0.1) (dBm) (2) (A) (0.1) (dBm) (in VHF_HZ_HORIZONTA)	 (1) (S) (0.1) (dBm) (2) (A) (0.1) (dBm) (in VHF_HZ_VERTICAL)



Band 3 5470~5725MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH100 5500MHz	
6+7	Horizontal	Vertical
Peak Avg.		



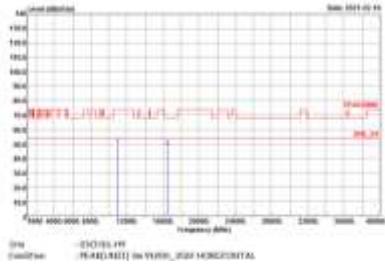
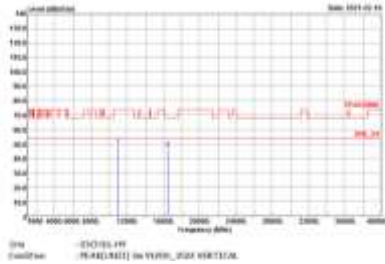
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH116 5580MHz	
6+7	Horizontal	Vertical
Peak Avg.		



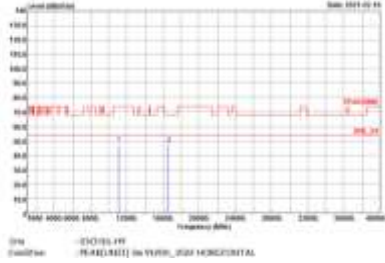
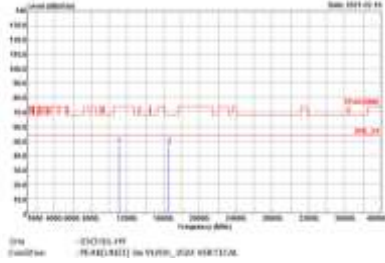
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH140 5700MHz	
6+7	Horizontal	Vertical
Peak Avg.		



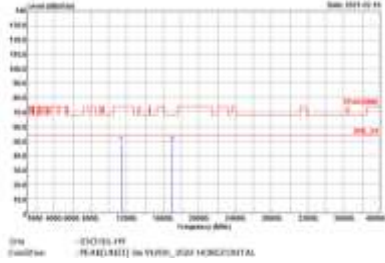
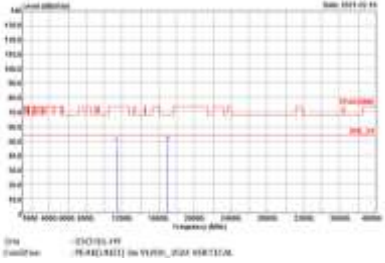
Band 3 - 5470~5725MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH102 5510MHz	
6+7	Horizontal	Vertical
Peak Avg.		



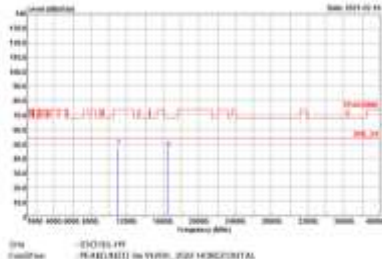
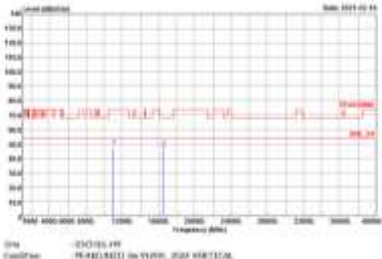
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH110 5550MHz	
6+7	Horizontal	Vertical
Peak Avg.		



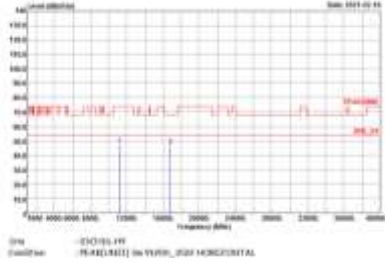
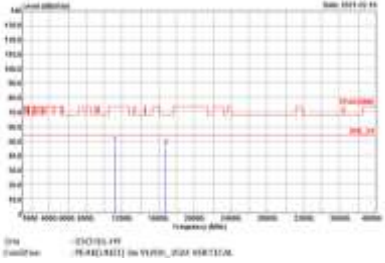
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH134 5670MHz	
6+7	Horizontal	Vertical
Peak Avg.		



Band 3 5470~5725MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

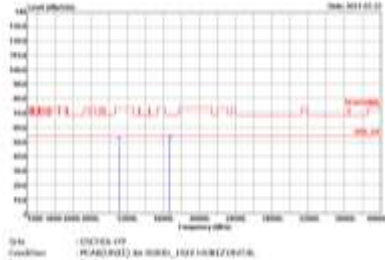
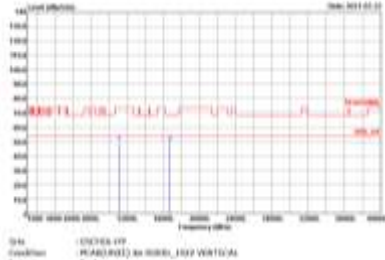
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz	
6+7	Horizontal	Vertical
Peak Avg.		



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH122 5610MHz	
6+7	Horizontal	Vertical
Peak Avg.		



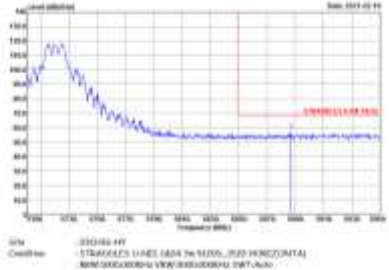
Band 3 5470~5725MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH114 5570MHz	
1+2	Horizontal	Vertical
Peak Avg.		

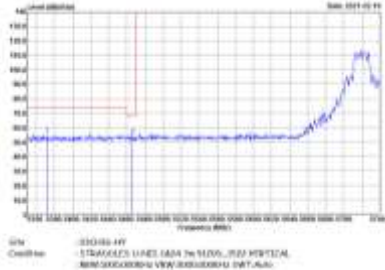
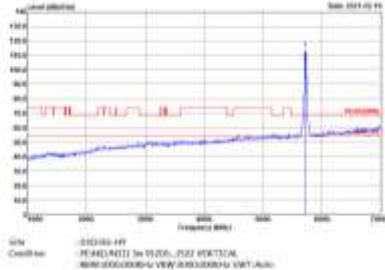
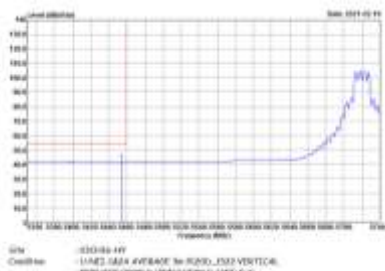
Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

[illegible]

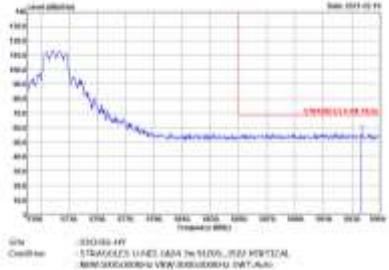


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
6+7	Horizontal	Fundamental
Peak		Left blank



WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
6+7	Vertical	Fundamental
Peak	 Site : 80211a-477 Condition : 12dB/60dB W/RES 1444 7m 1020V_022 VERTICAL 80dB 20000000000 VVIEW 8000000000 VMT Auto	 Site : 80211a-477 Condition : PEAK/NTT 7m 1020V_022 VERTICAL 80dB 20000000000 VVIEW 8000000000 VMT Auto
Avg.	 Site : 80211a-477 Condition : 12dB/60dB W/RES 1444 7m 1020V_022 VERTICAL 80dB 20000000000 VVIEW 8000000000 VMT Auto	Left blank

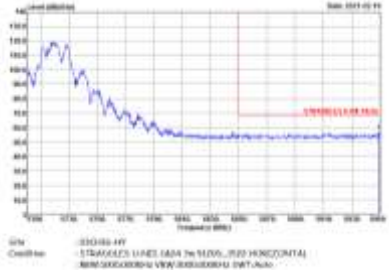


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank

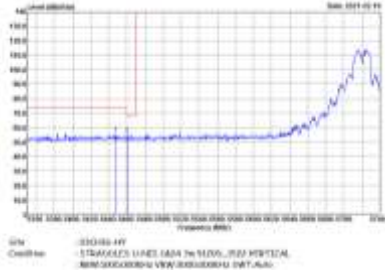
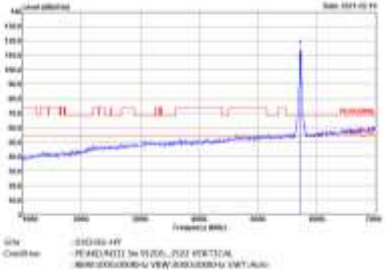
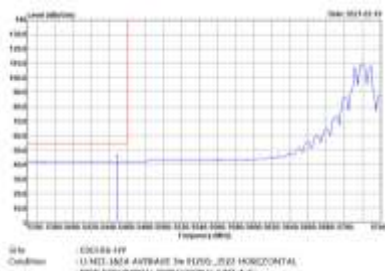
Band 3 – Straddle Channel
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - L	
6+7	Horizontal	Fundamental
Peak	Site: 80211ax-477 Condition: 1. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL 2. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL	Site: 80211ax-477 Condition: 1. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL 2. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL
Avg.	Site: 80211ax-477 Condition: 1. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL 2. 80211ax HE20 Full CH144 5720 MHz HORIZONTAL	Left blank

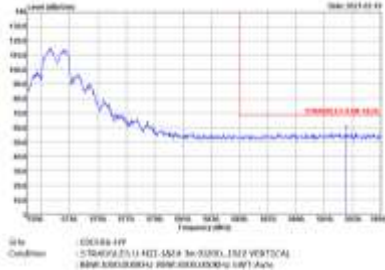


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank



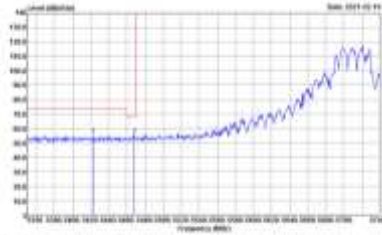
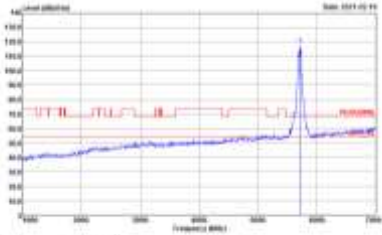
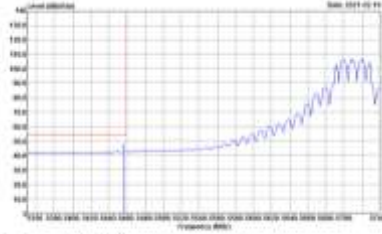
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



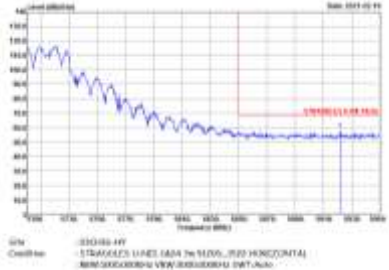
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



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

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - L	
6+7	Horizontal	Fundamental
Peak	 SW: 500000000 Crest: 100dBm UNIT: dBm PEAK: 100dBm VIEW: 100dBm SWT: Auto	 SW: 500000000 Crest: 100dBm UNIT: dBm PEAK: 100dBm VIEW: 100dBm SWT: Auto
Avg.	 SW: 500000000 Crest: 100dBm UNIT: dBm PEAK: 100dBm VIEW: 100dBm SWT: Auto	Left blank

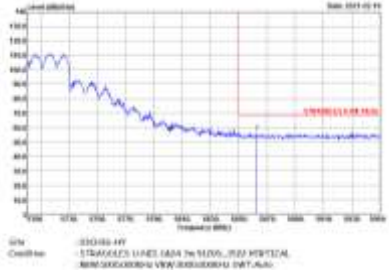


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank



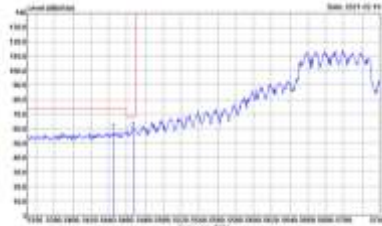
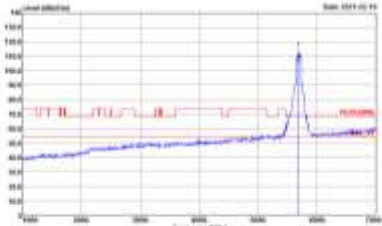
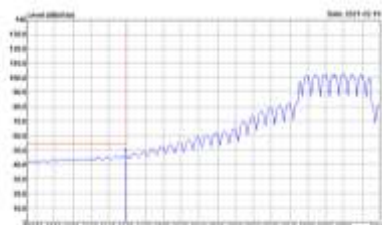
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - L	
6+7	Vertical	Fundamental
Peak		
Avg.		Left blank



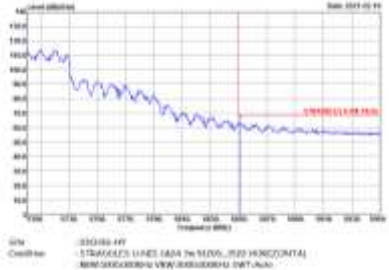
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank



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

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax CH138 5690MHz - L	
6+7	Horizontal	Fundamental
Peak	 Unit: dBm/40Hz Condition: STRADDLES LINES (A44 7m 110V, 100 HORIZONTAL) None (Spectrum View) (Spectrum View) (Spectrum View)	 Unit: dBm/40Hz Condition: PEAK (A44 7m 110V, 100 HORIZONTAL) None (Spectrum View) (Spectrum View) (Spectrum View)
Avg.	 Unit: dBm/40Hz Condition: AVERAGE (A44 7m 110V, 100 HORIZONTAL) None (Spectrum View) (Spectrum View) (Spectrum View)	Left blank

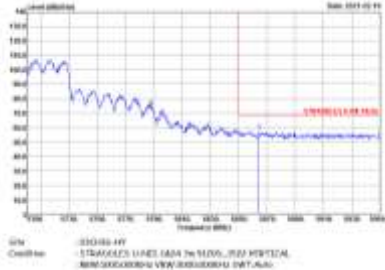


WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax CH138 5690MHz - R	
6+7	Horizontal	Fundamental
Peak		Left blank



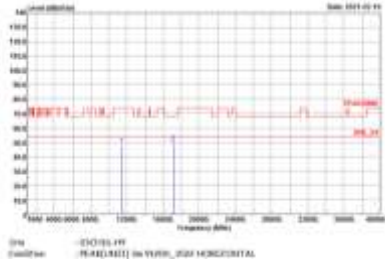
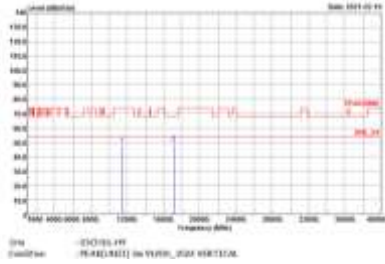
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax CH138 5690MHz - L	
6+7	Vertical	Fundamental
Peak	GHz: 5690.000 Channel: STRADDLES LINES DATA IN VIEW, 100% VERTICAL NONE DISCONTINUOUS VIEW DISCONTINUOUS VERT.AXIS	GHz: 5690.000 Channel: PEAK DETECT IN VIEW, 100% VERTICAL NONE DISCONTINUOUS VIEW DISCONTINUOUS VERT.AXIS
Avg.	GHz: 5690.000 Channel: LINES DATA AVERAGE IN VIEW, 100% VERTICAL NONE DISCONTINUOUS VIEW DISCONTINUOUS VERT.AXIS	Left blank



WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11ax CH138 5690MHz - R	
6+7	Vertical	Fundamental
Peak		Left blank

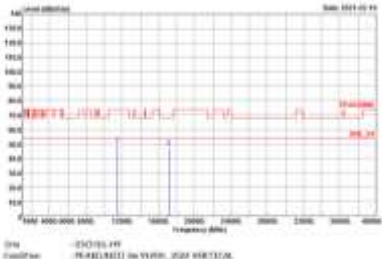


Band 3 - Straddle Channel
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
6+7	Horizontal	Vertical
Peak Avg.		

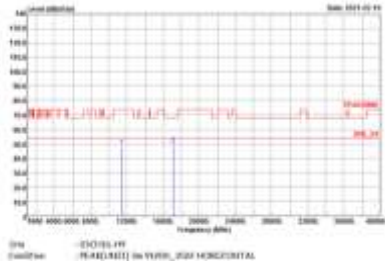


Band 3 – Straddle Channel
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE20 Full CH144 5720MHz	
6+7	Horizontal	Vertical
Peak Avg.		

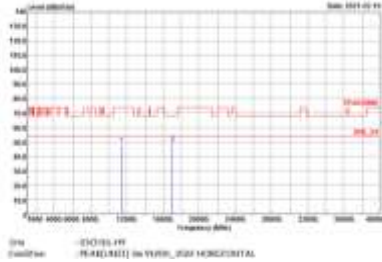
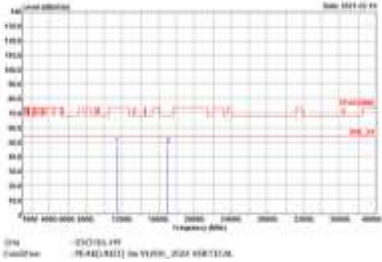


Band 3 - Straddle Channel
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE40 Full CH142 5710MHz	
6+7	Horizontal	Vertical
Peak Avg.		

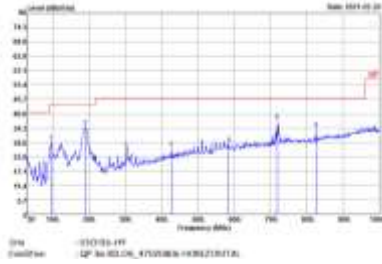
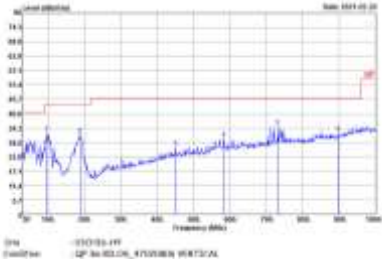


Band 3 – Straddle Channel
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ax HE80 Full CH138 5690MHz	
6+7	Horizontal	Vertical
Peak Avg.		



Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz WIFI	
ANT	802.11a LF	
6+7	Horizontal	Vertical
QP / Peak		

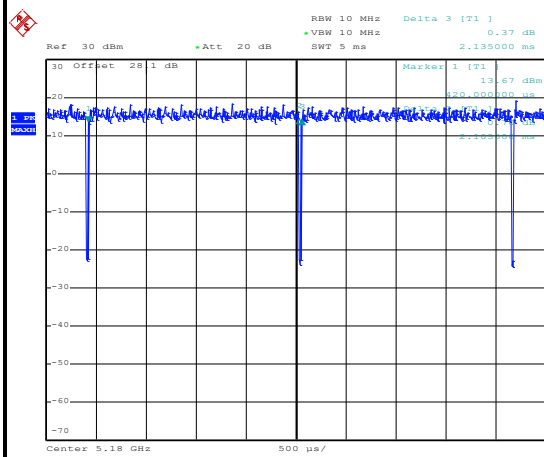
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
6+7	802.11a for Ant 6	98.59	-	-	10Hz	0.06
6+7	802.11a for Ant 7	98.83	-	-	10Hz	0.05
6+7	5GHz 802.11ax HE20 Full RU for Ant 6	98.91	-	-	10Hz	0.05
6+7	5GHz 802.11ax HE20 Full RU for Ant 7	99.28	-	-	10Hz	0.03
6+7	5GHz 802.11ax HE40 Full RU for Ant 6	99.27	-	-	10Hz	0.03
6+7	5GHz 802.11ax HE40 Full RU for Ant 7	98.72	-	-	10Hz	0.06
6+7	5GHz 802.11ax HE80 Full RU for Ant 6	99.27	-	-	10Hz	0.03
6+7	5GHz 802.11ax HE80 Full RU for Ant 7	99.09	-	-	10Hz	0.04
6+7	5GHz 802.11ax HE160 Full RU for Ant 6	99.37	-	-	10Hz	0.03
6+7	5GHz 802.11ax HE160 Full RU for Ant 7	99.25	-	-	10Hz	0.03



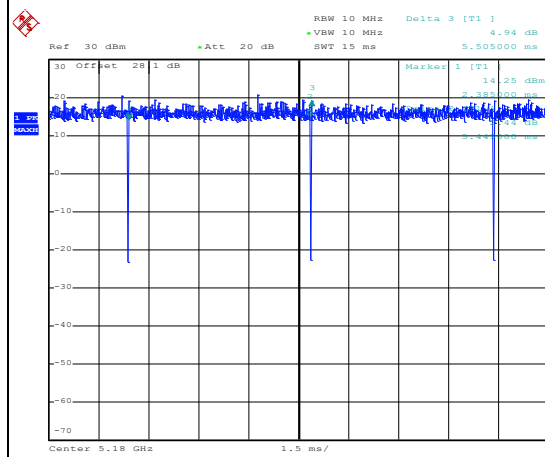
MIMO <Ant. 6>

802.11a



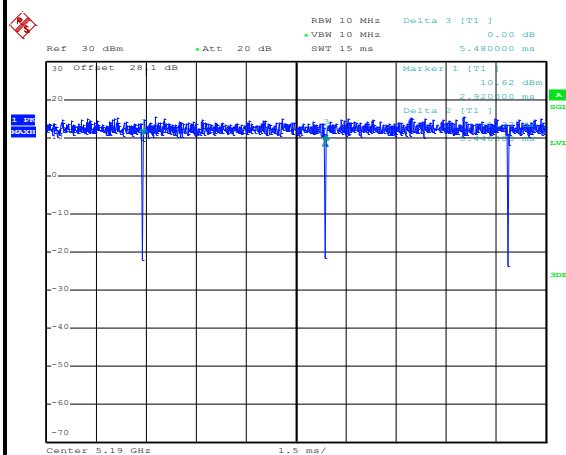
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802.11ax HE20



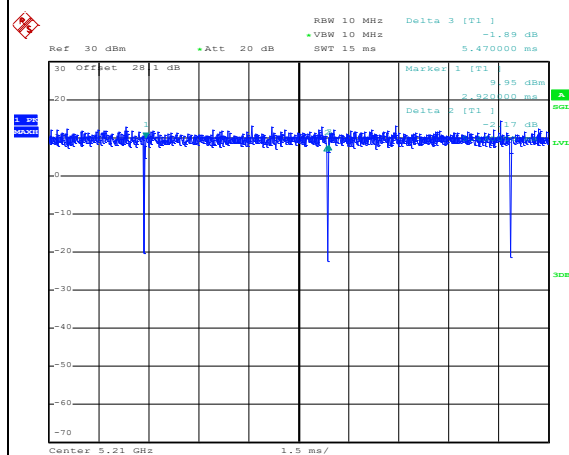
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802.11ax HE40

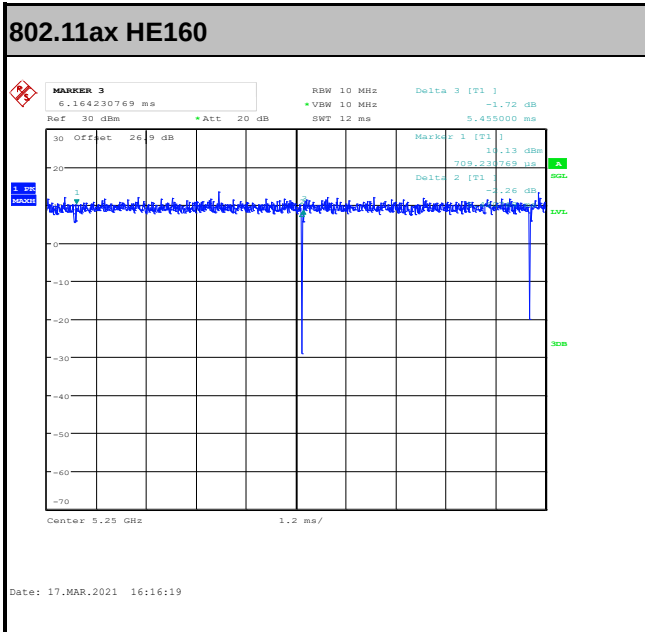


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802.11ax HE80



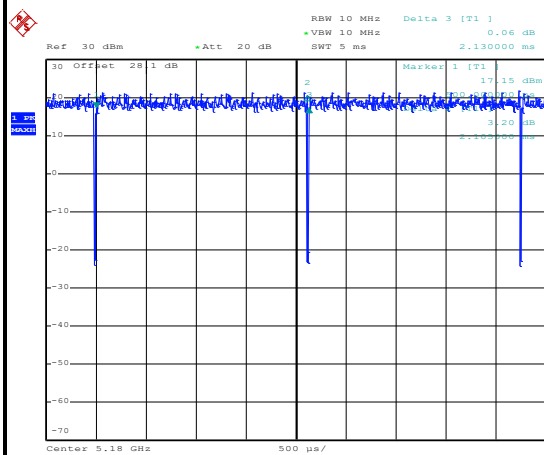
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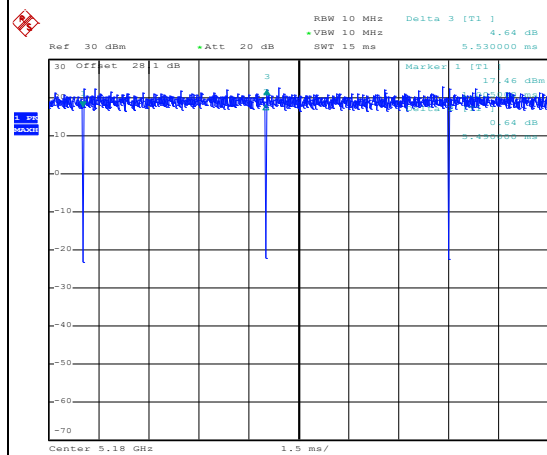
MIMO <Ant. 7>

802.11a



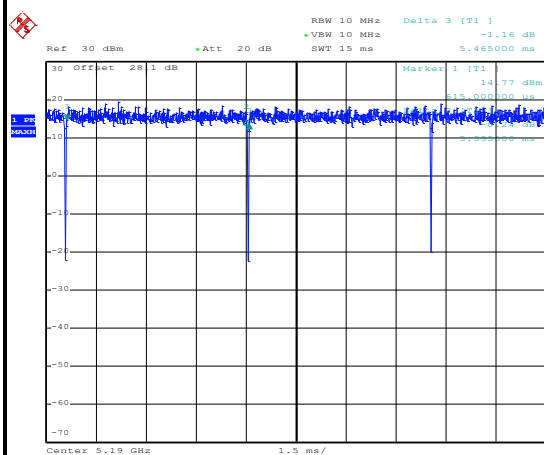
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802.11ax HE20



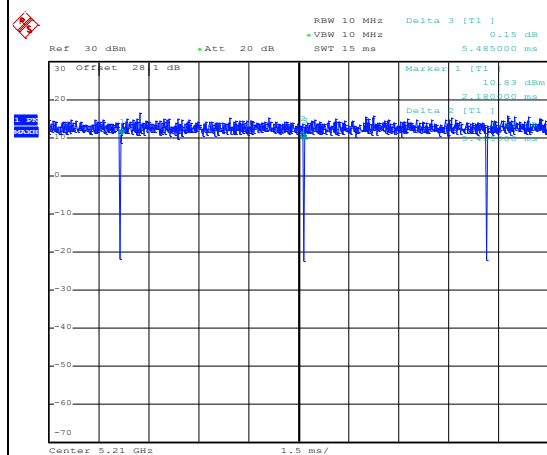
Date: 1.FEB.2021 11:37:18

802.11ax HE40



Date: 1.FEB.2021 11:40:33

802.11ax HE80



Date: 1.FEB.2021 11:45:00

