FCC RADIO TEST REPORT

FCC ID	:	**2AP7S-6784**
Equipment	:	**Tablet**
Model Name	:	**M8S26G**
Applicant	:	**First Stride LLC** **6385 Old Shady Oak Rd., Ste 250** **Eden Prairie** **Minnesota** **55344**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Oct. 01, 2018 and testing was started from May 05, 2021 and completed on Jun. 01, 2021. We, Sporton International Inc. EMC & Wireless Communications 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 variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR132707-01	01	Initial issue of report	Jun. 28, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)
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
-	15.207	AC Conducted Emission	Not Required
3.5	15.407(c)	Automatically Discontinue Transmission	Pass
3.6	15.203 15.407(a)	Antenna Requirement	Pass

Note:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by adding WLAN 5GHz Band 2 and Band 3. All the test cases were performed on original report which can be referred to Sporton Report Number FR872106-01D.

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: Alan Liu

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Model Name	M8S26G
FCC ID	2AP7S-6784
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency Range	5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	**<5260 MHz ~ 5320 MHz>** 802.11a: 15.70 dBm / 0.0372 W 802.11n HT20: 15.90 dBm / 0.0389 W 802.11n HT40: 15.90 dBm / 0.0389 W **<5500 MHz ~ 5720 MHz>** 802.11a: 16.20 dBm / 0.0417 W 802.11n HT20: 16.60 dBm / 0.0457 W 802.11n HT40: 16.60 dBm / 0.0457 W
99% Occupied Bandwidth	802.11a: 16.88 MHz 802.11n HT20: 17.73 MHz 802.11n HT40: 36.26 MHz
Antenna Type / Gain	**<5260 MHz ~ 5320 MHz>** Fixed Internal Antenna with gain 0.8 dBi **<5500 MHz ~ 5720 MHz >** Fixed Internal Antenna with gain -0.3 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

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 (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY

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 (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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.
- 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: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane as worst plane.

2.1 Carrier Frequency and Channel

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
	-	-		

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
	-	-	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	-	-	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	-	144	5720
	142*	5710		

Note: The above Frequency and Channel in "*" were 802.11n HT40.

2.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

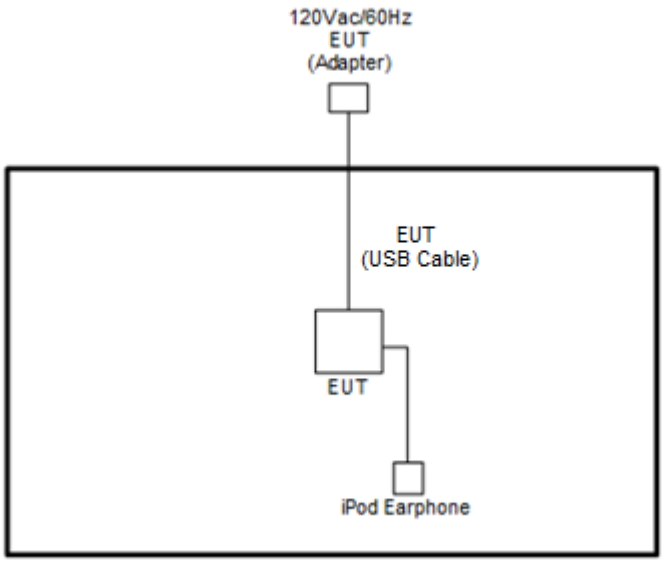
Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40
L	Low	54	102
M	Middle	-	110
H	High	62	134
Straddle		-	142

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “adb Command 1.0.36” 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

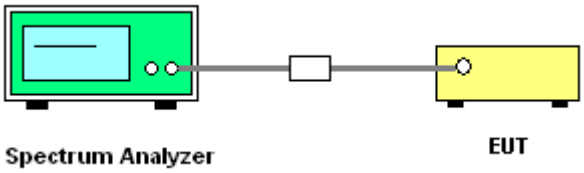
3.1.2 Measuring Instruments

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) ≥ 3 * RBW.
8. Measure and record the results in the test report.

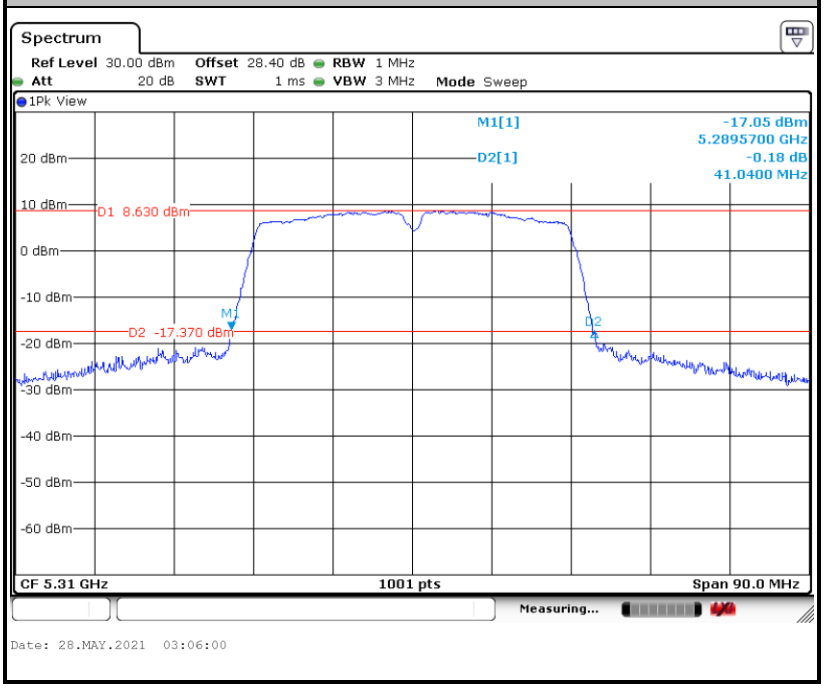
3.1.4 Test Setup



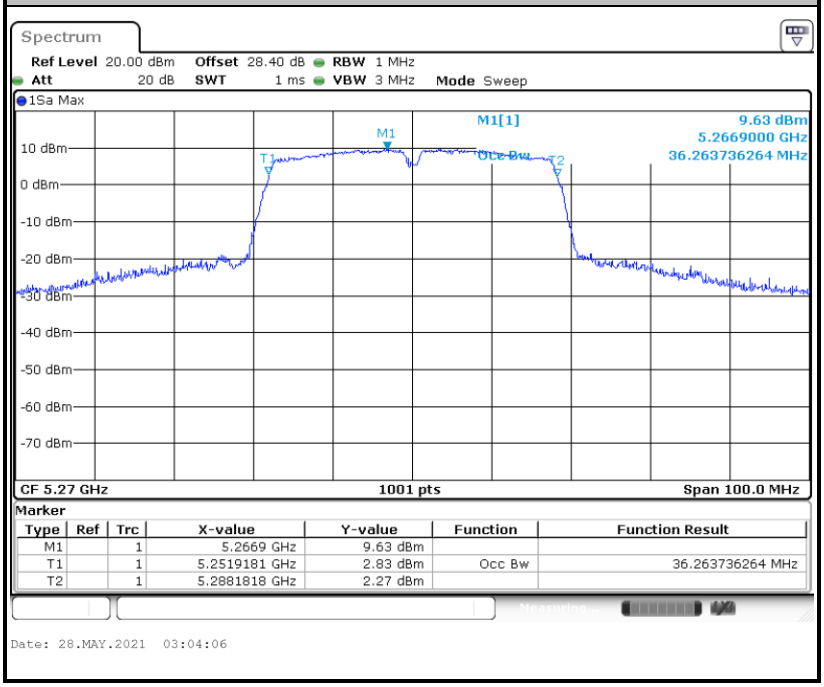
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 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

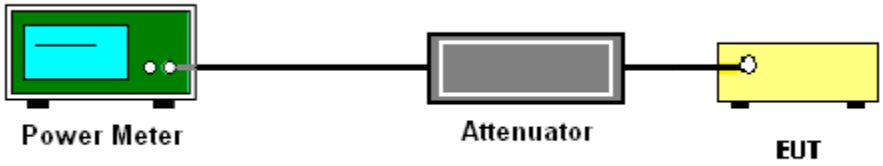
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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 5.25–5.725 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.

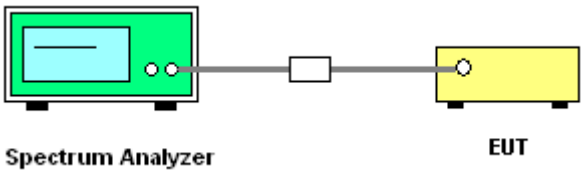
 # Method SA-3 #

(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 ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × 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 PPSD and record it.

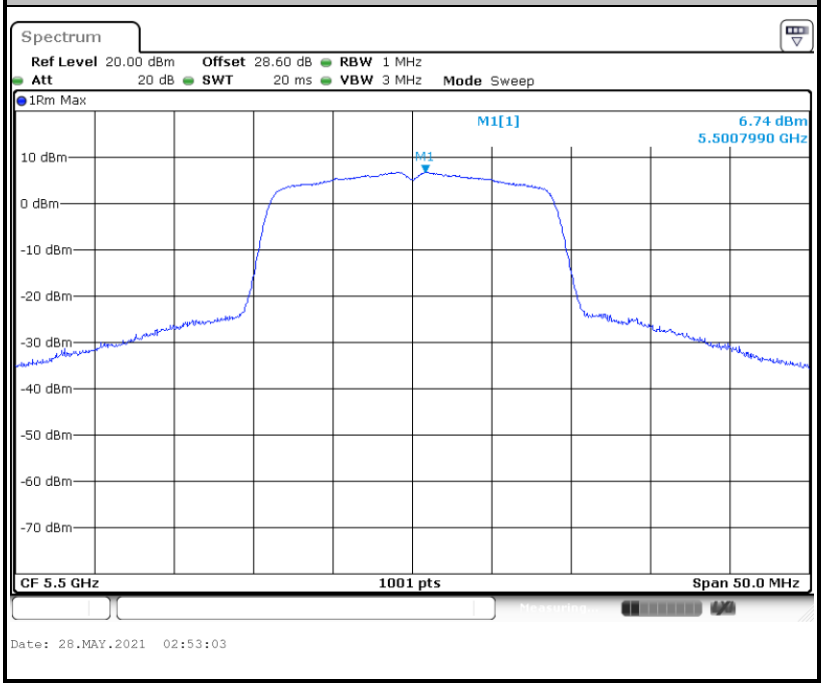
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



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.

3.4.1 Limit of Unwanted Emissions

(1) 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.

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

EIRP (dBm)	Field Strength at 3m (dBμV/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.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 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 ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

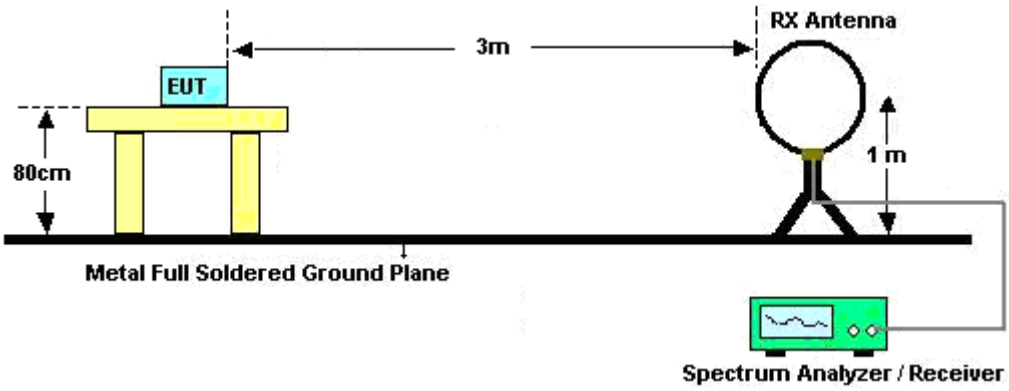
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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.

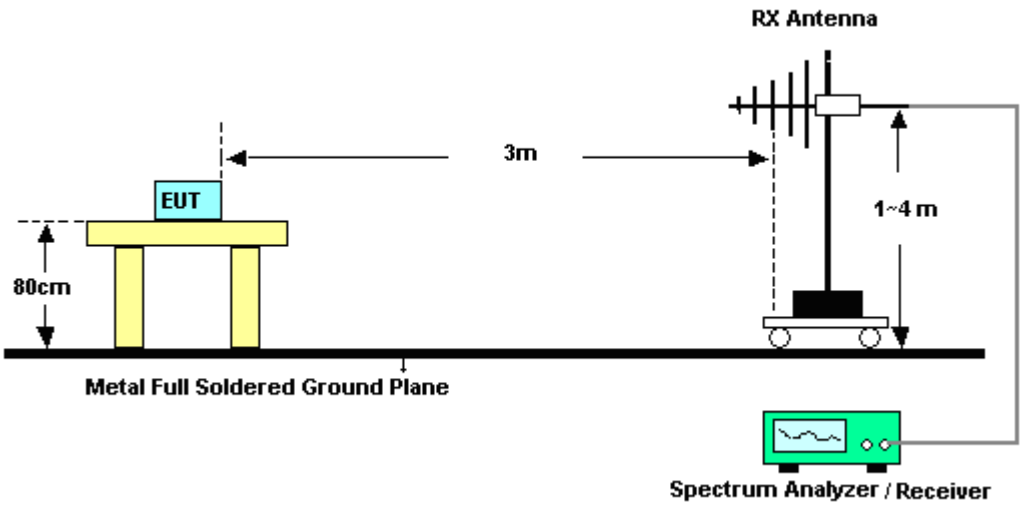
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

3.4.4 Test Setup

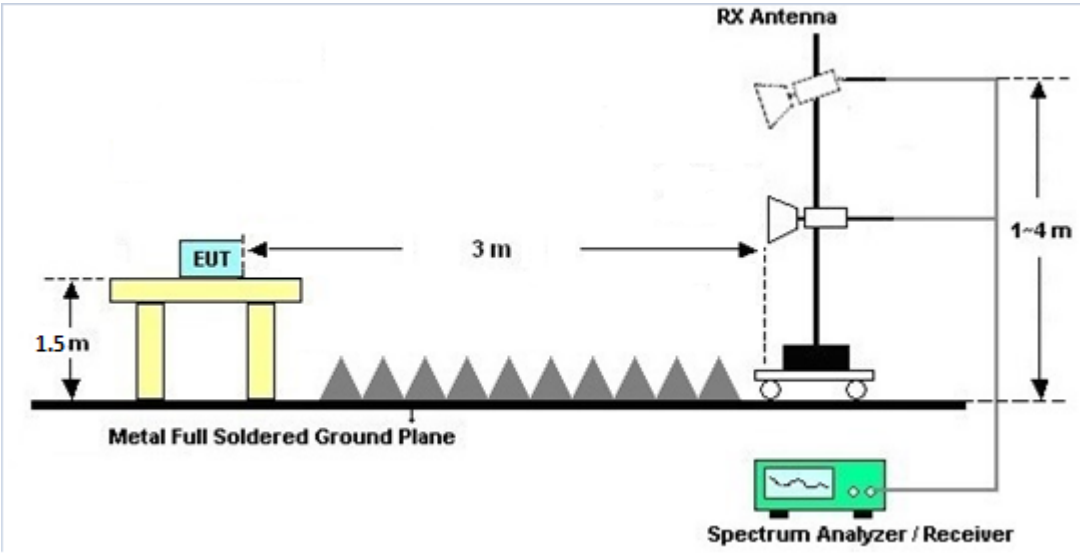
For radiated emissions below 30MHz



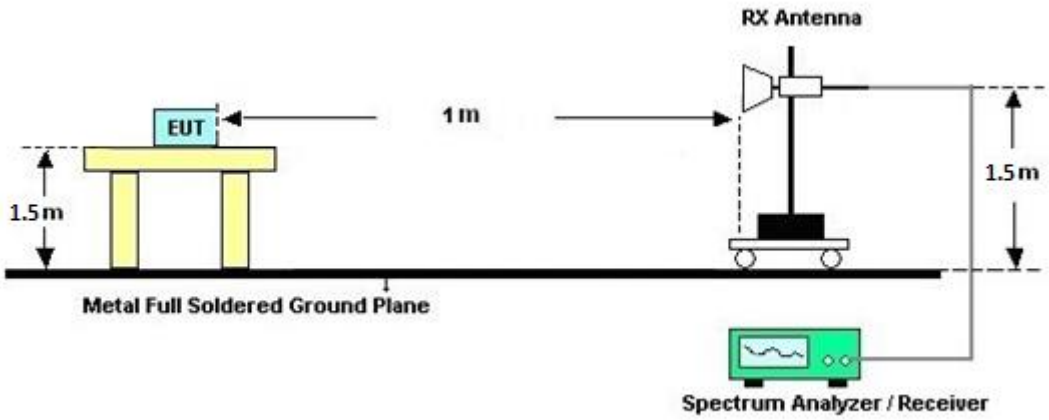
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.5 Automatically Discontinue Transmission

3.5.1 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.

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 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.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	May 05, 2021~ May 28, 2021	Mar. 02, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 16, 2020	May 05, 2021~ May 28, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	May 05, 2021~ May 28, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	May 05, 2021~ May 28, 2021	Jan. 20, 2022	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	May 05, 2021~ May 28, 2021	Mar. 16, 2022	Conducted (TH02-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	May 12, 2021~ Jun. 01, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	May 12, 2021~ Jun. 01, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30. 2020	May 12, 2021~ Jun. 01, 2021	Sep. 29. 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	May 12, 2021~ Jun. 01, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	May 12, 2021~ Jun. 01, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz ~40GHz	Dec. 11, 2020	May 12, 2021~ Jun. 01, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	May 12, 2021~ Jun. 01, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec.10,.2020	May 12, 2021~ Jun. 01, 2021	Dec.09,.2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY59053012	3Hz~26.5GHz	Nov.18,.2020	May 12, 2021~ Jun. 01, 2021	Nov.17,.2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	May 12, 2021~ Jun. 01, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	May 12, 2021~ Jun. 01, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 29, 2020	May 12, 2021~ Jun. 01, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	May 12, 2021~ Jun. 01, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	May 12, 2021~ Jun. 01, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 12, 2021~ Jun. 01, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 12, 2021~ Jun. 01, 2021	N/A	Radiation (03CH16-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.3

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

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

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu/Junyu Jhou	Temperature:	21.7~23.6	°C
Test Date:	2021/5/5~2021/5/28	Relative Humidity:	52.4~55.6	%

TEST RESULTS DATA
26dB and 99% OBW

Band II single antenna															
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.73	-	20.95	-	23.24	-	29.24	-	23.98	-	
11a	6Mbps	1	60	5300	16.88	-	21.05	-	23.27	-	29.27	-	23.98	-	
11a	6Mbps	1	64	5320	16.88	-	21.10	-	23.27	-	29.27	-	23.98	-	
HT20	MCS0	1	52	5260	17.63	-	21.00	-	23.46	-	29.46	-	23.98	-	
HT20	MCS0	1	60	5300	17.63	-	20.95	-	23.46	-	29.46	-	23.98	-	
HT20	MCS0	1	64	5320	17.63	-	20.95	-	23.46	-	29.46	-	23.98	-	
HT40	MCS0	1	54	5270	36.26	-	40.86	-	23.98	-	30.00	-	23.98	-	
HT40	MCS0	1	62	5310	36.26	-	41.04	-	23.98	-	30.00	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC Band II single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	15.70	-		23.98	-	0.80	-	26.99	Pass
11a	6Mbps	1	60	5300	15.60	-		23.98	-	0.80	-	26.99	Pass
11a	6Mbps	1	64	5320	15.70	-		23.98	-	0.80	-	26.99	Pass
HT20	MCS0	1	52	5260	15.90	-		23.98	-	0.80	-	26.99	Pass
HT20	MCS0	1	60	5300	15.80	-		23.98	-	0.80	-	26.99	Pass
HT20	MCS0	1	64	5320	15.70	-		23.98	-	0.80	-	26.99	Pass
HT40	MCS0	1	54	5270	15.90	-		23.98	-	0.80	-	26.99	Pass
HT40	MCS0	1	62	5310	14.70	-		23.98	-	0.80	-	26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band II single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	5.95	-		11.00	-	0.80	-		Pass
11a	6Mbps	1	60	5300	5.95	-		11.00	-	0.80	-		Pass
11a	6Mbps	1	64	5320	6.10	-		11.00	-	0.80	-		Pass
HT20	MCS0	1	52	5260	5.94	-		11.00	-	0.80	-		Pass
HT20	MCS0	1	60	5300	5.93	-		11.00	-	0.80	-		Pass
HT20	MCS0	1	64	5320	6.20	-		11.00	-	0.80	-		Pass
HT40	MCS0	1	54	5270	2.63	-		11.00	-	0.80	-		Pass
HT40	MCS0	1	62	5310	1.33	-		11.00	-	0.80	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III single antenna																
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.88	-	21.15	-	23.27	-	29.27	-	23.98	-	----	----
11a	6Mbps	1	116	5580	16.88	-	21.15	-	23.27	-	29.27	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.83	-	20.85	-	23.26	-	29.26	-	23.98	-	----	----
HT20	MCS0	1	100	5500	17.73	-	21.05	-	23.49	-	29.49	-	23.98	-	----	----
HT20	MCS0	1	116	5580	17.63	-	21.05	-	23.46	-	29.46	-	23.98	-	----	----
HT20	MCS0	1	140	5700	17.68	-	20.95	-	23.48	-	29.48	-	23.98	-	----	----
HT40	MCS0	1	102	5510	36.26	-	40.95	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	110	5550	36.26	-	40.95	-	23.98	-	30.00	-	23.98	-	----	----
HT40	MCS0	1	134	5670	36.26	-	41.04	-	23.98	-	30.00	-	23.98	-	----	----

Band III straddle channel single antenna																
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 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.49	-	15.55	-	22.30	-	28.30	-	22.92	-	3.2	-
HT20	MCS0	1	144	5720	13.79	-	15.45	-	22.40	-	28.40	-	22.89	-	3.8	-
HT40	MCS0	1	142	5710	32.98	-	35.52	-	23.98	-	30.00	-	23.98	-	3.18	-

TEST RESULTS DATA
Average Power Table

FCC Band III single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	16.20	-		23.98	-	-0.30	-	26.99	Pass
11a	6Mbps	1	116	5580	16.20	-		23.98	-	-0.30	-	26.99	Pass
11a	6Mbps	1	140	5700	16.00	-		23.98	-	-0.30	-	26.99	Pass
HT20	MCS0	1	100	5500	16.60	-		23.98	-	-0.30	-	26.99	Pass
HT20	MCS0	1	116	5580	16.00	-		23.98	-	-0.30	-	26.99	Pass
HT20	MCS0	1	140	5700	16.00	-		23.98	-	-0.30	-	26.99	Pass
HT40	MCS0	1	102	5510	16.60	-		23.98	-	-0.30	-	26.99	Pass
HT40	MCS0	1	110	5550	16.10	-		23.98	-	-0.30	-	26.99	Pass
HT40	MCS0	1	134	5670	16.30	-		23.98	-	-0.30	-	26.99	Pass

FCC Band III straddle channel single antenna													
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 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	15.90	-		22.92	-	-0.30	-	26.99	Pass
HT20	MCS0	1	144	5720	15.90	-		22.89	-	-0.30	-	26.99	Pass
HT40	MCS0	1	142	5710	16.00	-		23.98	-	-0.30	-	26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band III single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	6.18	-		11.00	-	-0.30	-		Pass
11a	6Mbps	1	116	5580	6.18	-		11.00	-	-0.30	-		Pass
11a	6Mbps	1	140	5700	5.87	-		11.00	-	-0.30	-		Pass
HT20	MCS0	1	100	5500	6.74	-		11.00	-	-0.30	-		Pass
HT20	MCS0	1	116	5580	5.92	-		11.00	-	-0.30	-		Pass
HT20	MCS0	1	140	5700	5.70	-		11.00	-	-0.30	-		Pass
HT40	MCS0	1	102	5510	2.56	-		11.00	-	-0.30	-		Pass
HT40	MCS0	1	110	5550	2.66	-		11.00	-	-0.30	-		Pass
HT40	MCS0	1	134	5670	2.53	-		11.00	-	-0.30	-		Pass

Band III straddle channel single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	6.02	-		11.00	-	-0.30	-		Pass
HT20	MCS0	1	144	5720	5.71	-		11.00	-	-0.30	-		Pass
HT40	MCS0	1	142	5710	2.34	-		11.00	-	-0.30	-		Pass

Appendix B. Radiated Spurious Emission

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

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	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		5105.06	53.71	-20.29	74	38.59	31.8	12.99	29.67	246	239	P	H
		5107.1	43.54	-10.46	54	28.42	31.8	12.99	29.67	246	239	A	H
	*	5260	108.36	-	-	93.55	31.28	13.22	29.69	246	239	P	H
	*	5260	101.07	-	-	86.26	31.28	13.22	29.69	246	239	A	H
		5418.72	55.71	-18.29	74	40.53	31.41	13.49	29.72	246	239	P	H
		5412.48	44.64	-9.36	54	29.51	31.37	13.48	29.72	246	239	A	H
		5028.22	54.25	-19.75	74	39.44	31.56	12.9	29.65	113	149	P	V
		5107.44	42.66	-11.34	54	27.54	31.8	12.99	29.67	113	149	A	V
	*	5260	107.69	-	-	92.88	31.28	13.22	29.69	113	149	P	V
	*	5260	100.21	-	-	85.4	31.28	13.22	29.69	113	149	A	V
		5426.16	54.9	-19.1	74	39.67	31.46	13.49	29.72	113	149	P	V
		5412.72	43.84	-10.16	54	28.7	31.38	13.48	29.72	113	149	A	V
802.11a CH 60 5300MHz		5104.72	54	-20	74	38.88	31.8	12.99	29.67	244	240	P	H
		5147.56	43.4	-10.6	54	28.23	31.8	13.04	29.67	244	240	A	H
	*	5300	109.36	-	-	94.57	31.2	13.29	29.7	244	240	P	H
	*	5300	101.96	-	-	87.17	31.2	13.29	29.7	244	240	A	H
		5351.28	56.53	-17.47	74	41.75	31.11	13.38	29.71	244	240	P	H
		5380.08	46.84	-7.16	54	31.9	31.22	13.43	29.71	244	240	A	H
		5117.98	54.31	-19.69	74	39.17	31.8	13.01	29.67	102	167	P	V
		5146.88	42.67	-11.33	54	27.5	31.8	13.04	29.67	102	167	A	V
	*	5300	106.76	-	-	91.97	31.2	13.29	29.7	102	167	P	V
	*	5300	99.43	-	-	84.64	31.2	13.29	29.7	102	167	A	V
		5366.64	55.13	-18.87	74	40.26	31.17	13.41	29.71	102	167	P	V
		5380.08	44.96	-9.04	54	30.02	31.22	13.43	29.71	102	167	A	V

802.11a CH 64 5320MHz	*	5320	109.15	-	-	94.36	31.16	13.33	29.7	243	239	P	H
	*	5320	101.78	-	-	86.99	31.16	13.33	29.7	243	239	A	H
		5351.04	58.46	-15.54	74	43.69	31.1	13.38	29.71	243	239	P	H
		5400	47.34	-6.66	54	32.28	31.3	13.47	29.71	243	239	A	H
	*	5320	106.63	-	-	91.84	31.16	13.33	29.7	101	166	P	V
	*	5320	99.27	-	-	84.48	31.16	13.33	29.7	101	166	A	V
		5370.08	55.55	-18.45	74	40.66	31.18	13.42	29.71	101	166	P	V
		5400	45.38	-8.62	54	30.32	31.3	13.47	29.71	101	166	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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	47.96	-20.24	68.2	44.85	39.8	19.49	56.18	100	0	P	H
		15780	46.59	-27.41	74	41.33	37.32	23.4	55.46	100	0	P	H
		17747	55.52	-18.48	74	42.6	44.77	25.35	57.2	100	0	P	H
		17747	44.17	-9.83	54	31.25	44.77	25.35	57.2	100	0	A	H
		10520	48.49	-19.71	68.2	45.38	39.8	19.49	56.18	100	0	P	V
		15780	46.54	-27.46	74	41.28	37.32	23.4	55.46	100	0	P	V
		17725	55.59	-18.41	74	42.88	44.55	25.35	57.19	100	0	P	V
		17725	44.34	-9.66	54	31.63	44.55	25.35	57.19	100	0	A	V
802.11a CH 60 5300MHz		10600	48.12	-25.88	74	44.91	39.8	19.53	56.12	100	0	P	H
		15900	46.84	-27.16	74	41.33	37.5	23.49	55.48	100	0	P	H
		17758	55.2	-18.8	74	42.16	44.88	25.36	57.2	100	0	P	H
		17758	44.11	-9.89	54	31.07	44.88	25.36	57.2	100	0	A	H
		10600	47.55	-26.45	74	44.34	39.8	19.53	56.12	100	0	P	V
		15900	46.93	-27.07	74	41.42	37.5	23.49	55.48	100	0	P	V
		17736	54.58	-19.42	74	41.76	44.66	25.35	57.19	100	0	P	V
		17736	44.24	-9.76	54	31.42	44.66	25.35	57.19	100	0	A	V
802.11a CH 64 5320MHz		10640	48.85	-25.15	74	45.59	39.8	19.55	56.09	100	0	P	H
		15960	45.82	-28.18	74	40.46	37.32	23.53	55.49	100	0	P	H
		17736	55.1	-18.9	74	42.28	44.66	25.35	57.19	100	0	P	H
		17736	43.96	-10.04	54	31.14	44.66	25.35	57.19	100	0	A	H
		10640	49.32	-24.68	74	46.06	39.8	19.55	56.09	100	0	P	V
		15960	46.52	-27.48	74	41.16	37.32	23.53	55.49	100	0	P	V
		17736	55.15	-18.85	74	42.33	44.66	25.35	57.19	100	0	P	V
		17736	44.47	-9.53	54	31.65	44.66	25.35	57.19	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 52 5260MHz		5103.36	54.63	-19.37	74	39.51	31.8	12.99	29.67	101	242	P	H
		5148.58	44.33	-9.67	54	29.15	31.8	13.05	29.67	101	242	A	H
	*	5260	108.32	-	-	93.51	31.28	13.22	29.69	101	242	P	H
	*	5260	101.05	-	-	86.24	31.28	13.22	29.69	101	242	A	H
		5430.72	54.84	-19.16	74	39.58	31.48	13.5	29.72	101	242	P	H
		5411.28	44.9	-9.1	54	29.77	31.37	13.48	29.72	101	242	A	H
		5107.1	53.86	-20.14	74	38.74	31.8	12.99	29.67	100	168	P	V
		5108.8	44.33	-9.67	54	29.2	31.8	13	29.67	100	168	A	V
	*	5260	108.05	-	-	93.24	31.28	13.22	29.69	100	168	P	V
	*	5260	100.87	-	-	86.06	31.28	13.22	29.69	100	168	A	V
		5367.84	54.15	-19.85	74	39.28	31.17	13.41	29.71	100	168	P	V
		5411.52	44.48	-9.52	54	29.35	31.37	13.48	29.72	100	168	A	V
802.11n HT20 CH 60 5300MHz		5148.58	52.92	-21.08	74	37.74	31.8	13.05	29.67	100	244	P	H
		5148.58	43.54	-10.46	54	28.36	31.8	13.05	29.67	100	244	A	H
	*	5300	108.42	-	-	93.63	31.2	13.29	29.7	100	244	P	H
	*	5300	101.19	-	-	86.4	31.2	13.29	29.7	100	244	A	H
		5363.52	54.96	-19.04	74	40.12	31.15	13.4	29.71	100	244	P	H
		5380.08	45.74	-8.26	54	30.8	31.22	13.43	29.71	100	244	A	H
		5115.94	54.94	-19.06	74	39.81	31.8	13	29.67	100	122	P	V
		5147.9	43.18	-10.82	54	28.01	31.8	13.04	29.67	100	122	A	V
	*	5300	109.62	-	-	94.83	31.2	13.29	29.7	100	122	P	V
	*	5300	102.34	-	-	87.55	31.2	13.29	29.7	100	122	A	V
		5411.76	55.75	-18.25	74	40.62	31.37	13.48	29.72	100	122	P	V
		5380.08	47.03	-6.97	54	32.09	31.22	13.43	29.71	100	122	A	V

802.11n HT20 CH 64 5320MHz	*	5320	107.97	-	-	93.18	31.16	13.33	29.7	100	244	P	H
	*	5320	100.71	-	-	85.92	31.16	13.33	29.7	100	244	A	H
		5393.28	56.67	-17.33	74	41.65	31.27	13.46	29.71	100	244	P	H
		5400	46.34	-7.66	54	31.28	31.3	13.47	29.71	100	244	A	H
	*	5320	109.57	-	-	94.78	31.16	13.33	29.7	100	126	P	V
	*	5320	102.32	-	-	87.53	31.16	13.33	29.7	100	126	A	V
		5373.28	57.6	-16.4	74	42.7	31.19	13.42	29.71	100	126	P	V
		5350.56	47.68	-6.32	54	32.91	31.1	13.38	29.71	100	126	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 52 5260MHz		10520	47.92	-20.28	68.2	44.81	39.8	19.49	56.18	100	0	P	H
		15780	46.39	-27.61	74	41.13	37.32	23.4	55.46	100	0	P	H
		17989	59.21	-14.79	74	41.99	49.07	25.45	57.3	100	0	P	H
		17989	47.53	-6.47	54	30.31	49.07	25.45	57.3	100	0	A	H
		10520	49.16	-19.04	68.2	46.05	39.8	19.49	56.18	100	0	P	V
		15780	46.4	-27.6	74	41.14	37.32	23.4	55.46	100	0	P	V
		17978	59.51	-14.49	74	42.52	48.84	25.44	57.29	100	0	P	V
		17978	47.23	-6.77	54	30.24	48.84	25.44	57.29	100	0	A	V
802.11n HT20 CH 60 5300MHz		10600	48.36	-25.64	74	45.15	39.8	19.53	56.12	100	0	P	H
		15900	46.44	-27.56	74	40.93	37.5	23.49	55.48	100	0	P	H
		17967	59.21	-14.79	74	42.45	48.61	25.44	57.29	100	0	P	H
		17967	47.45	-6.55	54	30.69	48.61	25.44	57.29	100	0	A	H
		10600	48.22	-25.78	74	45.01	39.8	19.53	56.12	100	0	P	V
		15900	46.64	-27.36	74	41.13	37.5	23.49	55.48	100	0	P	V
		17978	58.49	-15.51	74	41.5	48.84	25.44	57.29	100	0	P	V
		17978	47.34	-6.66	54	30.35	48.84	25.44	57.29	100	0	A	V
802.11n HT20 CH 64 5320MHz		10640	48.15	-25.85	74	44.89	39.8	19.55	56.09	100	0	P	H
		15960	47.8	-26.2	74	42.44	37.32	23.53	55.49	100	0	P	H
		17978	58.93	-15.07	74	41.94	48.84	25.44	57.29	100	0	P	H
		17978	47.35	-6.65	54	30.36	48.84	25.44	57.29	100	0	A	H
		10640	48.49	-25.51	74	45.23	39.8	19.55	56.09	100	0	P	V
		15960	45.87	-28.13	74	40.51	37.32	23.53	55.49	100	0	P	V
		18000	58.5	-15.5	74	41.05	49.3	25.45	57.3	100	0	P	V
		18000	47.67	-6.33	54	30.22	49.3	25.45	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 54 5270MHz		5129.88	53.97	-20.03	74	38.82	31.8	13.02	29.67	100	244	P	H
		5121.72	43.91	-10.09	54	28.77	31.8	13.01	29.67	100	244	A	H
	*	5270	105.14	-	-	90.33	31.26	13.24	29.69	100	244	P	H
	*	5270	97.66	-	-	82.85	31.26	13.24	29.69	100	244	A	H
		5439.36	54.24	-19.76	74	38.92	31.54	13.5	29.72	100	244	P	H
		5350.08	44.07	-9.93	54	29.3	31.1	13.38	29.71	100	244	A	H
		5118.66	55.03	-18.97	74	39.89	31.8	13.01	29.67	100	126	P	V
		5122.4	43.78	-10.22	54	28.64	31.8	13.01	29.67	100	126	A	V
	*	5270	106.34	-	-	91.53	31.26	13.24	29.69	100	126	P	V
	*	5270	98.64	-	-	83.83	31.26	13.24	29.69	100	126	A	V
		5354.88	55.59	-18.41	74	40.79	31.12	13.39	29.71	100	126	P	V
		5416.32	45.26	-8.74	54	30.1	31.4	13.48	29.72	100	126	A	V
802.11n HT40 CH 62 5310MHz		5148.24	54.19	-19.81	74	39.01	31.8	13.05	29.67	100	245	P	H
		5132.94	42.84	-11.16	54	27.68	31.8	13.03	29.67	100	245	A	H
	*	5310	104.51	-	-	89.72	31.18	13.31	29.7	100	245	P	H
	*	5310	96.82	-	-	82.03	31.18	13.31	29.7	100	245	A	H
		5354.4	60.69	-13.31	74	45.89	31.12	13.39	29.71	100	245	P	H
		5350.08	51.49	-2.51	54	36.72	31.1	13.38	29.71	100	245	A	H
		5109.82	53.24	-20.76	74	38.11	31.8	13	29.67	100	124	P	V
		5132.94	42.77	-11.23	54	27.61	31.8	13.03	29.67	100	124	A	V
	*	5310	105.02	-	-	90.23	31.18	13.31	29.7	100	124	P	V
	*	5310	97.84	-	-	83.05	31.18	13.31	29.7	100	124	A	V
		5350.32	62	-12	74	47.23	31.1	13.38	29.71	100	124	P	V
		5350.08	52.77	-1.23	54	38	31.1	13.38	29.71	100	124	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 54 5270MHz		10540	48.04	-20.16	68.2	44.91	39.8	19.5	56.17	100	0	P	H
		15810	46.4	-27.6	74	41.12	37.32	23.42	55.46	100	0	P	H
		18000	59.21	-14.79	74	41.76	49.3	25.45	57.3	100	0	P	H
		18000	47.79	-6.21	54	30.34	49.3	25.45	57.3	100	0	A	H
		10540	47.97	-20.23	68.2	44.84	39.8	19.5	56.17	100	0	P	V
		15810	46.07	-27.93	74	40.79	37.32	23.42	55.46	100	0	P	V
		17967	58.94	-15.06	74	42.18	48.61	25.44	57.29	100	0	P	V
		17967	47.47	-6.53	54	30.71	48.61	25.44	57.29	100	0	A	V
802.11n HT40 CH 62 5310MHz		10620	48.04	-25.96	74	44.8	39.8	19.54	56.1	100	0	P	H
		15930	47.03	-26.97	74	41.6	37.41	23.51	55.49	100	0	P	H
		17989	59.94	-14.06	74	42.72	49.07	25.45	57.3	100	0	P	H
		17989	47.55	-6.45	54	30.33	49.07	25.45	57.3	100	0	A	H
		10620	48.63	-25.37	74	45.39	39.8	19.54	56.1	100	0	P	V
		15930	47.09	-26.91	74	41.66	37.41	23.51	55.49	100	0	P	V
		17945	59.12	-14.88	74	42.82	48.15	25.43	57.28	100	0	P	V
		17945	47.4	-6.6	54	31.1	48.15	25.43	57.28	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	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		5457.68	56.04	-17.96	74	40.62	31.62	13.52	29.72	250	250	P	H
		5462.64	56.65	-11.55	68.2	41.22	31.63	13.52	29.72	250	250	P	H
		5458.16	45.11	-8.89	54	29.69	31.62	13.52	29.72	250	250	A	H
	*	5500	107.57	-	-	92.04	31.7	13.56	29.73	250	250	P	H
	*	5500	100.27	-	-	84.74	31.7	13.56	29.73	250	250	A	H
		5442	56.95	-17.05	74	41.61	31.55	13.51	29.72	100	121	P	V
		5467.6	58.42	-9.78	68.2	42.97	31.64	13.53	29.72	100	121	P	V
		5457.84	46.22	-7.78	54	30.8	31.62	13.52	29.72	100	121	A	V
	*	5500	109.39	-	-	93.86	31.7	13.56	29.73	100	121	P	V
	*	5500	102.11	-	-	86.58	31.7	13.56	29.73	100	121	A	V
802.11a CH 116 5580MHz		5427.28	54.25	-19.75	74	39.02	31.46	13.49	29.72	253	249	P	H
		5460.4	53.77	-14.43	68.2	38.35	31.62	13.52	29.72	253	249	P	H
		5427.52	42.91	-11.09	54	27.67	31.47	13.49	29.72	253	249	A	H
	*	5580	106.73	-	-	91.21	31.66	13.62	29.76	253	249	P	H
	*	5580	99.53	-	-	84.01	31.66	13.62	29.76	253	249	A	H
		5753.345	54.47	-13.73	68.2	38.52	32	13.78	29.83	253	249	P	H
		5438.8	54.46	-19.54	74	39.15	31.53	13.5	29.72	100	122	P	V
		5467.6	55.34	-12.86	68.2	39.89	31.64	13.53	29.72	100	122	P	V
		5427.52	43.6	-10.4	54	28.36	31.47	13.49	29.72	100	122	A	V
	*	5580	109.83	-	-	94.31	31.66	13.62	29.76	100	122	P	V
	*	5580	102.54	-	-	87.02	31.66	13.62	29.76	100	122	A	V
		5753.03	55.14	-13.06	68.2	39.19	32	13.78	29.83	100	122	P	V

802.11a CH 140 5700MHz	*	5700	106.35	-	-	90.73	31.7	13.73	29.81	100	240	P	H
	*	5700	99.08	-	-	83.46	31.7	13.73	29.81	100	240	A	H
		5725.8	62.52	-5.68	68.2	46.74	31.85	13.75	29.82	100	240	P	H
	*	5700	110.06	-	-	94.44	31.7	13.73	29.81	100	122	P	V
	*	5700	102.79	-	-	87.17	31.7	13.73	29.81	100	122	A	V
		5726.04	64.09	-4.11	68.2	48.3	31.86	13.75	29.82	100	122	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	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	49.1	-24.9	74	45.05	40.1	19.75	55.8	100	0	P	H
		16500	48.51	-19.69	68.2	40.89	39	24.32	55.7	100	0	P	H
		17813	56.21	-17.79	74	42.51	45.55	25.38	57.23	100	0	P	H
		17813	44.78	-9.22	54	31.08	45.55	25.38	57.23	100	0	A	H
		11000	49.15	-24.85	74	45.1	40.1	19.75	55.8	100	0	P	V
		16500	49.06	-19.14	68.2	41.44	39	24.32	55.7	100	0	P	V
		17802	56.19	-17.81	74	42.7	45.34	25.37	57.22	100	0	P	V
		17802	44.71	-9.29	54	31.22	45.34	25.37	57.22	100	0	A	V
802.11a CH 116 5580MHz		11160	48.85	-25.15	74	44.86	39.82	19.87	55.7	100	0	P	H
		16740	49.35	-18.85	68.2	40.96	39.74	24.69	56.04	100	0	P	H
		17824	56.23	-17.77	74	42.32	45.76	25.38	57.23	100	0	P	H
		17824	45.16	-8.84	54	31.25	45.76	25.38	57.23	100	0	A	H
		11160	49.31	-24.69	74	45.32	39.82	19.87	55.7	100	0	P	V
		16740	49.34	-18.86	68.2	40.95	39.74	24.69	56.04	100	0	P	V
		17824	56.31	-17.69	74	42.4	45.76	25.38	57.23	100	0	P	V
		17824	45.6	-8.4	54	31.69	45.76	25.38	57.23	100	0	A	V
802.11a CH 140 5700MHz		11400	48.5	-25.5	74	44.02	40	20.04	55.56	100	0	P	H
		17100	49.62	-18.58	68.2	40.65	40.4	25.11	56.54	100	0	P	H
		17813	55.23	-18.77	74	41.53	45.55	25.38	57.23	100	0	P	H
		17813	44.72	-9.28	54	31.02	45.55	25.38	57.23	100	0	A	H
		11400	48.86	-25.14	74	44.38	40	20.04	55.56	100	0	P	V
		17100	50.09	-18.11	68.2	41.12	40.4	25.11	56.54	100	0	P	V
		17758	54.95	-19.05	74	41.91	44.88	25.36	57.2	100	0	P	V
		17758	44.02	-9.98	54	30.98	44.88	25.36	57.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 100 5500MHz		5459.76	55.5	-18.5	74	40.08	31.62	13.52	29.72	284	313	P	H
		5469.84	55.76	-12.44	68.2	40.32	31.64	13.53	29.73	284	313	P	H
		5459.92	44.45	-9.55	54	29.03	31.62	13.52	29.72	284	313	A	H
	*	5500	106.45	-	-	90.92	31.7	13.56	29.73	284	313	P	H
	*	5500	99.21	-	-	83.68	31.7	13.56	29.73	284	313	A	H
		5458	56.77	-17.23	74	41.35	31.62	13.52	29.72	100	123	P	V
		5466	57.94	-10.26	68.2	42.5	31.63	13.53	29.72	100	123	P	V
		5460	46.33	-7.67	54	30.91	31.62	13.52	29.72	100	123	A	V
	*	5500	109.08	-	-	93.55	31.7	13.56	29.73	100	123	P	V
	*	5500	101.76	-	-	86.23	31.7	13.56	29.73	100	123	A	V
802.11n HT20 CH 116 5580MHz		5442.16	53.27	-20.73	74	37.93	31.55	13.51	29.72	283	315	P	H
		5464.24	53.17	-15.03	68.2	37.74	31.63	13.52	29.72	283	315	P	H
		5428.48	42.31	-11.69	54	27.07	31.47	13.49	29.72	283	315	A	H
	*	5580	107.36	-	-	91.84	31.66	13.62	29.76	283	315	P	H
	*	5580	100.12	-	-	84.6	31.66	13.62	29.76	283	315	A	H
		5760.275	53.6	-14.6	68.2	37.65	32	13.78	29.83	283	315	P	H
		5443.84	54.44	-19.56	74	39.09	31.56	13.51	29.72	100	115	P	V
		5467.12	55.18	-13.02	68.2	39.74	31.63	13.53	29.72	100	115	P	V
		5428.24	43.89	-10.11	54	28.65	31.47	13.49	29.72	100	115	A	V
	*	5580	108.86	-	-	93.34	31.66	13.62	29.76	100	115	P	V
	*	5580	101.43	-	-	85.91	31.66	13.62	29.76	100	115	A	V
		5733.185	54.94	-13.26	68.2	39.1	31.9	13.76	29.82	100	115	P	V

802.11n HT20 CH 140 5700MHz	*	5700	106.17	-	-	90.55	31.7	13.73	29.81	100	240	P	H
	*	5700	98.9	-	-	83.28	31.7	13.73	29.81	100	240	A	H
		5725.16	59	-9.2	68.2	43.22	31.85	13.75	29.82	100	240	P	H
	*	5700	108.88	-	-	93.26	31.7	13.73	29.81	100	127	P	V
	*	5700	101.62	-	-	86	31.7	13.73	29.81	100	127	A	V
		5725.08	62.83	-5.37	68.2	47.05	31.85	13.75	29.82	100	127	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 100 5500MHz		11000	49.27	-24.73	74	45.22	40.1	19.75	55.8	100	0	P	H
		16500	48.5	-19.7	68.2	40.88	39	24.32	55.7	100	0	P	H
		17758	55.68	-18.32	74	42.64	44.88	25.36	57.2	100	0	P	H
		17758	43.91	-10.09	54	30.87	44.88	25.36	57.2	100	0	A	H
		11000	48.62	-25.38	74	44.57	40.1	19.75	55.8	100	0	P	V
		16500	48.86	-19.34	68.2	41.24	39	24.32	55.7	100	0	P	V
		17725	55.61	-18.39	74	42.9	44.55	25.35	57.19	100	0	P	V
		17725	44.27	-9.73	54	31.56	44.55	25.35	57.19	100	0	A	V
802.11n HT20 CH 116 5580MHz		11160	48.66	-25.34	74	44.67	39.82	19.87	55.7	100	0	P	H
		16740	49.46	-18.74	68.2	41.07	39.74	24.69	56.04	100	0	P	H
		17835	56.68	-17.32	74	42.56	45.97	25.38	57.23	100	0	P	H
		17835	44.69	-9.31	54	30.57	45.97	25.38	57.23	100	0	A	H
		11160	49.04	-24.96	74	45.05	39.82	19.87	55.7	100	0	P	V
		16740	49.51	-18.69	68.2	41.12	39.74	24.69	56.04	100	0	P	V
		17835	56.35	-17.65	74	42.23	45.97	25.38	57.23	100	0	P	V
		17835	45.21	-8.79	54	31.09	45.97	25.38	57.23	100	0	A	V
802.11n HT20 CH 140 5700MHz		11400	49.01	-24.99	74	44.53	40	20.04	55.56	100	0	P	H
		17100	50.9	-17.3	68.2	41.93	40.4	25.11	56.54	100	0	P	H
		17802	56.72	-17.28	74	43.23	45.34	25.37	57.22	100	0	P	H
		17802	44.73	-9.27	54	31.24	45.34	25.37	57.22	100	0	A	H
		11400	48.48	-25.52	74	44	40	20.04	55.56	100	0	P	V
		17100	49.67	-18.53	68.2	40.7	40.4	25.11	56.54	100	0	P	V
		17758	56.37	-17.63	74	43.33	44.88	25.36	57.2	100	0	P	V
		17758	44.74	-9.26	54	31.7	44.88	25.36	57.2	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 102 5510MHz		5454.4	58.66	-15.34	74	43.25	31.61	13.52	29.72	256	244	P	H
		5470	64.35	-3.85	68.2	48.91	31.64	13.53	29.73	256	244	P	H
		5459.92	47.84	-6.16	54	32.42	31.62	13.52	29.72	256	244	A	H
	*	5510	104.78	-	-	89.27	31.68	13.56	29.73	256	244	P	H
	*	5510	97.17	-	-	81.66	31.68	13.56	29.73	256	244	A	H
		5760.905	55.32	-12.88	68.2	39.37	32	13.78	29.83	256	244	P	H
		5457.76	59.59	-14.41	74	44.17	31.62	13.52	29.72	100	144	P	V
		5470	66.03	-2.17	68.2	50.59	31.64	13.53	29.73	100	144	P	V
		5459.92	48.58	-5.42	54	33.16	31.62	13.52	29.72	100	144	A	V
	*	5510	105.56	-	-	90.05	31.68	13.56	29.73	100	144	P	V
	*	5510	98.17	-	-	82.66	31.68	13.56	29.73	100	144	A	V
		5755.235	55.07	-13.13	68.2	39.12	32	13.78	29.83	100	144	P	V
802.11n HT40 CH 110 5550MHz		5459.2	54.61	-19.39	74	39.19	31.62	13.52	29.72	100	241	P	H
		5466.4	54.43	-13.77	68.2	38.99	31.63	13.53	29.72	100	241	P	H
		5458.96	43.6	-10.4	54	28.18	31.62	13.52	29.72	100	241	A	H
	*	5550	103.86	-	-	88.41	31.6	13.6	29.75	100	241	P	H
	*	5550	96.23	-	-	80.78	31.6	13.6	29.75	100	241	A	H
		5739.17	56.1	-12.1	68.2	40.21	31.94	13.77	29.82	100	241	P	H
		5458.96	56	-18	74	40.58	31.62	13.52	29.72	100	120	P	V
		5461.6	54.15	-14.05	68.2	38.73	31.62	13.52	29.72	100	120	P	V
		5459.92	44.51	-9.49	54	29.09	31.62	13.52	29.72	100	120	A	V
	*	5550	106.32	-	-	90.87	31.6	13.6	29.75	100	120	P	V
	*	5550	99.08	-	-	83.63	31.6	13.6	29.75	100	120	A	V
		5725.31	55.29	-12.91	68.2	39.51	31.85	13.75	29.82	100	120	P	V

802.11n HT40 CH 134 5670MHz		5444.5	53.54	-20.46	74	38.18	31.57	13.51	29.72	100	239	P	H
		5468.65	54.24	-13.96	68.2	38.79	31.64	13.53	29.72	100	239	P	H
		5457.8	42.29	-11.71	54	26.87	31.62	13.52	29.72	100	239	A	H
	*	5670	102.85	-	-	87.3	31.64	13.7	29.79	100	239	P	H
	*	5670	95.46	-	-	79.91	31.64	13.7	29.79	100	239	A	H
		5728.6	55.58	-12.62	68.2	39.77	31.87	13.76	29.82	100	239	P	H
		5425.25	54.02	-19.98	74	38.8	31.45	13.49	29.72	100	122	P	V
		5462.7	53.9	-14.3	68.2	38.47	31.63	13.52	29.72	100	122	P	V
		5458.5	42.71	-11.29	54	27.29	31.62	13.52	29.72	100	122	A	V
	*	5670	106.71	-	-	91.16	31.64	13.7	29.79	100	122	P	V
	*	5670	99.25	-	-	83.7	31.64	13.7	29.79	100	122	A	V
		5726.5	58.65	-9.55	68.2	42.86	31.86	13.75	29.82	100	122	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 102 5510MHz		11020	49.41	-24.59	74	45.36	40.08	19.76	55.79	100	0	P	H
		16530	48.1	-20.1	68.2	40.36	39.12	24.36	55.74	100	0	P	H
		18000	59.16	-14.84	74	41.71	49.3	25.45	57.3	100	0	P	H
		18000	47.68	-6.32	54	30.23	49.3	25.45	57.3	100	0	A	H
		11020	48.49	-25.51	74	44.44	40.08	19.76	55.79	100	0	P	V
		16530	47.38	-20.82	68.2	39.64	39.12	24.36	55.74	100	0	P	V
		17967	58.59	-15.41	74	41.83	48.61	25.44	57.29	100	0	P	V
		17967	47.63	-6.37	54	30.87	48.61	25.44	57.29	100	0	A	V
802.11n HT40 CH 110 5550MHz		11100	48.44	-25.56	74	44.36	40	19.82	55.74	100	0	P	H
		16650	48.71	-19.49	68.2	40.63	39.45	24.54	55.91	100	0	P	H
		17967	59.37	-14.63	74	42.61	48.61	25.44	57.29	100	0	P	H
		17967	47.64	-6.36	54	30.88	48.61	25.44	57.29	100	0	A	H
		11100	48.45	-25.55	74	44.37	40	19.82	55.74	100	0	P	V
		16650	48.99	-19.21	68.2	40.91	39.45	24.54	55.91	100	0	P	V
		17945	59.17	-14.83	74	42.87	48.15	25.43	57.28	100	0	P	V
		17945	47.44	-6.56	54	31.14	48.15	25.43	57.28	100	0	A	V
802.11n HT40 CH 134 5670MHz		11340	48.27	-25.73	74	44.05	39.82	20	55.6	100	0	P	H
		17010	49.9	-18.3	68.2	40.74	40.49	25.08	56.41	100	0	P	H
		17978	59.09	-14.91	74	42.1	48.84	25.44	57.29	100	0	P	H
		17978	47.58	-6.42	54	30.59	48.84	25.44	57.29	100	0	A	H
		11340	48.33	-25.67	74	44.11	39.82	20	55.6	100	0	P	V
		17010	50.1	-18.1	68.2	40.94	40.49	25.08	56.41	100	0	P	V
		17989	59.4	-14.6	74	42.18	49.07	25.45	57.3	100	0	P	V
		17989	47.5	-6.5	54	30.28	49.07	25.45	57.3	100	0	A	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 Ant. 1	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		5375.74	55.35	-18.65	74	40.43	31.2	13.43	29.71	100	245	P	H
		5461.54	54.07	-14.13	68.2	38.65	31.62	13.52	29.72	100	245	P	H
		5456.47	42.18	-11.82	54	26.77	31.61	13.52	29.72	100	245	A	H
	*	5720	108.91	-	-	93.15	31.82	13.75	29.81	100	245	P	H
	*	5720	101.82	-	-	86.06	31.82	13.75	29.81	100	245	A	H
		5863.5	57.03	-11.17	68.2	40.96	32.13	13.81	29.87	100	245	P	H
		5438.92	56.18	-17.82	74	40.87	31.53	13.5	29.72	100	123	P	V
		5460.37	55.69	-12.51	68.2	40.27	31.62	13.52	29.72	100	123	P	V
		5459.59	42.34	-11.66	54	26.92	31.62	13.52	29.72	100	123	A	V
	*	5720	110.74	-	-	94.98	31.82	13.75	29.81	100	123	P	V
	*	5720	103.56	-	-	87.8	31.82	13.75	29.81	100	123	A	V
		5889.25	56.83	-11.37	68.2	40.72	32.18	13.81	29.88	100	123	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. 1	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	49.59	-24.41	74	45.1	39.96	20.07	55.54	100	0	P	H
		17160	51.2	-17	68.2	42.05	40.64	25.13	56.62	100	0	P	H
		17978	58.73	-15.27	74	41.74	48.84	25.44	57.29	100	0	P	H
		17978	47.52	-6.48	54	30.53	48.84	25.44	57.29	100	0	A	H
		11440	48.74	-25.26	74	44.25	39.96	20.07	55.54	100	0	P	V
		17160	50.24	-17.96	68.2	41.09	40.64	25.13	56.62	100	0	P	V
		18000	58.91	-15.09	74	41.46	49.3	25.45	57.3	100	0	P	V
		18000	47.68	-6.32	54	30.23	49.3	25.45	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 144 5720MHz		5396.02	55.58	-18.42	74	40.55	31.28	13.46	29.71	100	245	P	H
		5467.78	53.74	-14.46	68.2	38.29	31.64	13.53	29.72	100	245	P	H
		5456.08	42.28	-11.72	54	26.87	31.61	13.52	29.72	100	245	A	H
	*	5720	108.45	-	-	92.69	31.82	13.75	29.81	100	245	P	H
	*	5720	101.33	-	-	85.57	31.82	13.75	29.81	100	245	A	H
		5887	56.97	-11.23	68.2	40.87	32.17	13.81	29.88	100	245	P	H
		5456.08	55.39	-18.61	74	39.98	31.61	13.52	29.72	100	123	P	V
		5469.73	54.74	-13.46	68.2	39.3	31.64	13.53	29.73	100	123	P	V
		5459.59	42.42	-11.58	54	27	31.62	13.52	29.72	100	123	A	V
	*	5720	110.4	-	-	94.64	31.82	13.75	29.81	100	123	P	V
	*	5720	103.22	-	-	87.46	31.82	13.75	29.81	100	123	A	V
		5883.25	56.76	-11.44	68.2	40.66	32.17	13.81	29.88	100	123	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT20 CH 144 5720MHz		11440	48.89	-25.11	74	44.4	39.96	20.07	55.54	100	0	P	H
		17160	50.23	-17.97	68.2	41.08	40.64	25.13	56.62	100	0	P	H
		17956	59.05	-14.95	74	42.51	48.38	25.44	57.28	100	0	P	H
		17956	47.51	-6.49	54	30.97	48.38	25.44	57.28	100	0	A	H
		11440	48.2	-25.8	74	43.71	39.96	20.07	55.54	100	0	P	V
		17160	50.53	-17.67	68.2	41.38	40.64	25.13	56.62	100	0	P	V
		18000	58.48	-15.52	74	41.03	49.3	25.45	57.3	100	0	P	V
		18000	47.64	-6.36	54	30.19	49.3	25.45	57.3	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 142 5710MHz		5393.68	54.69	-19.31	74	39.67	31.27	13.46	29.71	100	244	P	H
		5460.76	54.65	-13.55	68.2	39.23	31.62	13.52	29.72	100	244	P	H
		5457.25	42.29	-11.71	54	26.88	31.61	13.52	29.72	100	244	A	H
	*	5710	105.12	-	-	89.43	31.76	13.74	29.81	100	244	P	H
	*	5710	97.62	-	-	81.93	31.76	13.74	29.81	100	244	A	H
		5928.25	57.12	-11.08	68.2	40.94	32.26	13.81	29.89	100	244	P	H
		5422.93	55.32	-18.68	74	40.11	31.44	13.49	29.72	100	123	P	V
		5465.83	55.68	-12.52	68.2	40.24	31.63	13.53	29.72	100	123	P	V
		5454.13	42.47	-11.53	54	27.06	31.61	13.52	29.72	100	123	A	V
	*	5710	106.96	-	-	91.27	31.76	13.74	29.81	100	123	P	V
	*	5710	99.36	-	-	83.67	31.76	13.74	29.81	100	123	A	V
		5850.75	57.25	-10.95	68.2	41.2	32.1	13.81	29.86	100	123	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	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)
802.11n HT40 CH 142 5710MHz		11420	49.74	-24.26	74	45.25	39.98	20.06	55.55	100	0	P	H
		17130	50.85	-17.35	68.2	41.79	40.52	25.12	56.58	100	0	P	H
		17945	59.19	-14.81	74	42.89	48.15	25.43	57.28	100	0	P	H
		17945	47.54	-6.46	54	31.24	48.15	25.43	57.28	100	0	A	H
		11420	48.87	-25.13	74	44.38	39.98	20.06	55.55	100	0	P	V
		17130	50.68	-17.52	68.2	41.62	40.52	25.12	56.58	100	0	P	V
		17967	60.18	-13.82	74	43.42	48.61	25.44	57.29	100	0	P	V
		17967	47.45	-6.55	54	30.69	48.61	25.44	57.29	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

WIFI 802.11n HT40 (SHF @ 3m)

WIFI Ant. 1	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)
802.11n HT40 SHF		39.45	-28.75	68.2	42.92	38.24	11.87	53.58	150	0	39.45	P	H
		42.6	-25.6	68.2	41.71	40	15.96	55.07	150	0	42.6	P	H
		21124	39.36	-34.64	74	43.42	38.1	11.34	53.5	150	0	P	V
		31178	44.75	-23.45	68.2	42.79	41.08	16.52	55.64	150	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI Ant. 1	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)
802.11n HT40 LF		108.57	20.86	-22.64	43.5	34.92	16.95	1.62	32.63	-	-	P	H
		261.83	19.77	-26.23	46	29.74	19.99	2.73	32.69	-	-	P	H
		515	25.25	-20.75	46	29.9	24.17	3.84	32.66	-	-	P	H
		625.58	29.14	-16.86	46	31.22	26.22	4.3	32.6	-	-	P	H
		729.37	37.05	-8.95	46	37.2	27.74	4.65	32.54	100	0	P	H
		903	34.95	-11.05	46	32.78	29.23	5.31	32.37	-	-	P	H
		79.47	28.37	-11.63	40	46.27	13.47	1.33	32.7	100	0	P	V
		185.2	25.47	-18.03	43.5	41.06	15.04	2.23	32.86	-	-	P	V
		423.82	24.26	-21.74	46	30.25	22.97	3.48	32.44	-	-	P	V
		579.99	29.08	-16.92	46	31.88	25.73	4.14	32.67	-	-	P	V
		735.19	31.32	-14.68	46	31.26	27.96	4.66	32.56	-	-	P	V
		904.94	32.59	-13.41	46	30.34	29.28	5.31	32.34	-	-	P	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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

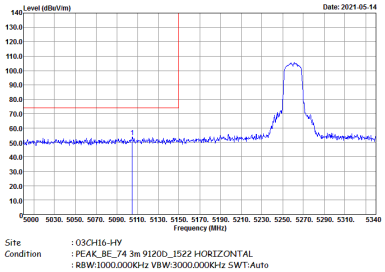
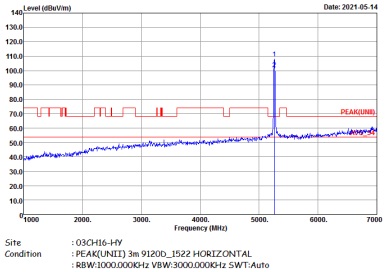
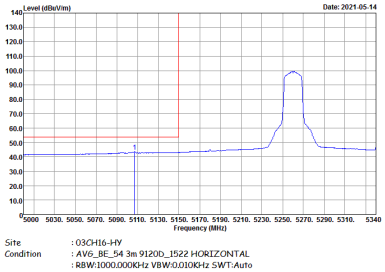
Test Engineer :	Karl Hou, Caster Liao and Andy Yang	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

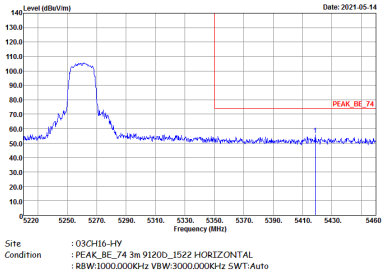
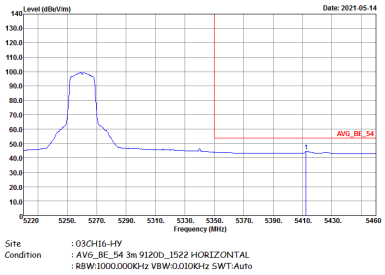
Note symbol

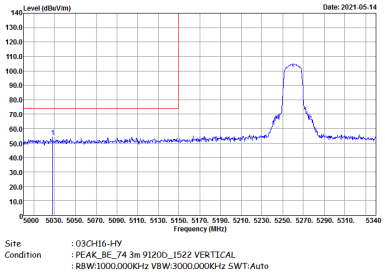
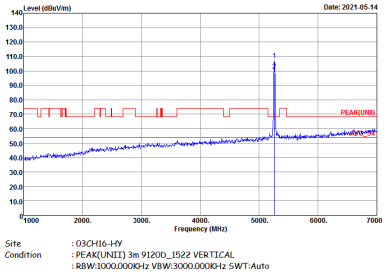
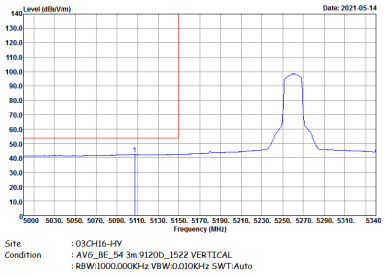
-L	**Low channel location**
-R	**High channel location**

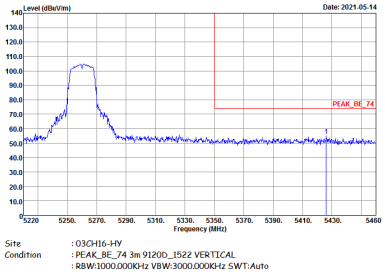
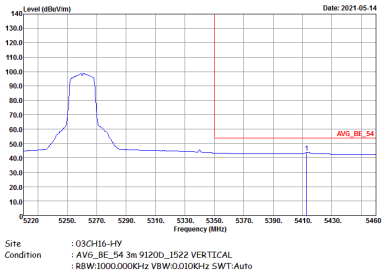
Band 2 - 5250~5350MHz

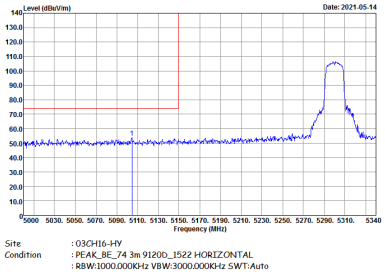
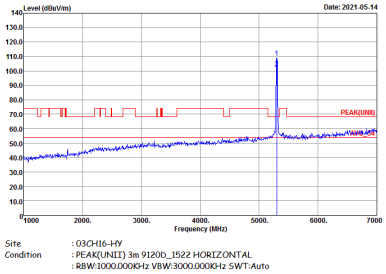
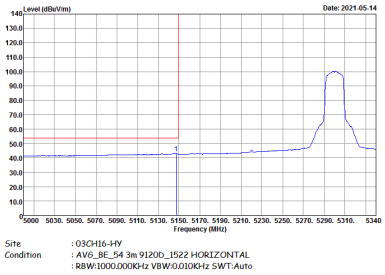
WIFI 802.11a (Band Edge @ 3m)

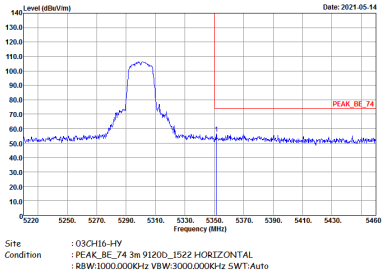
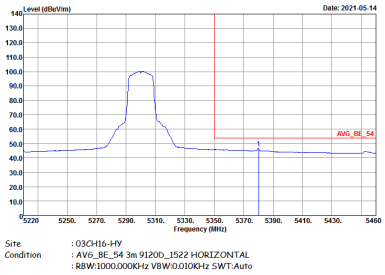
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

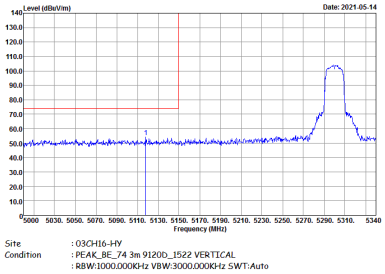
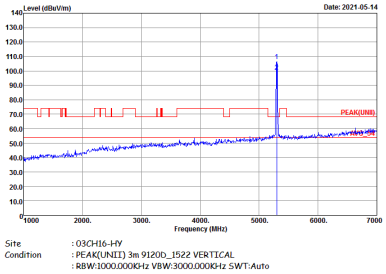
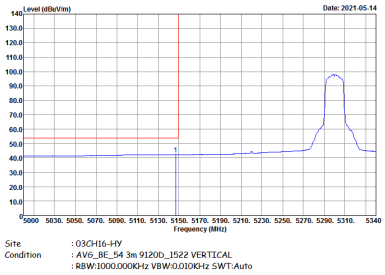
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

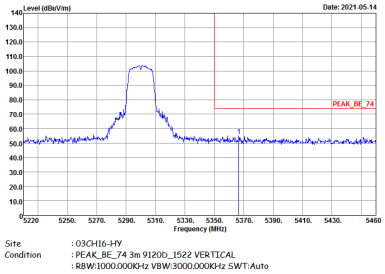
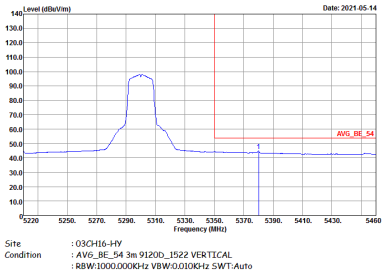
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

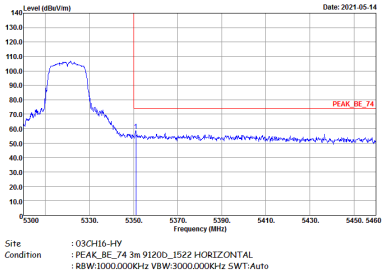
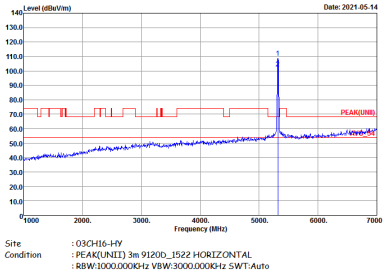
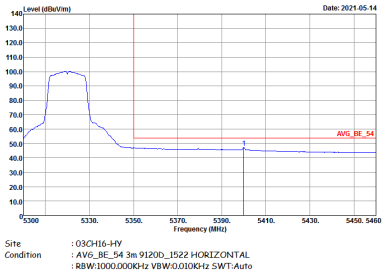
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

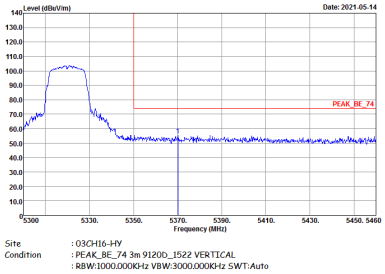
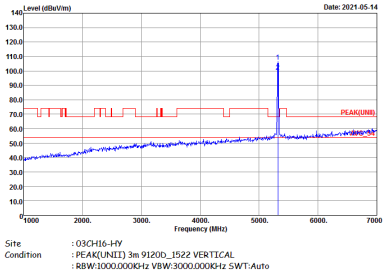
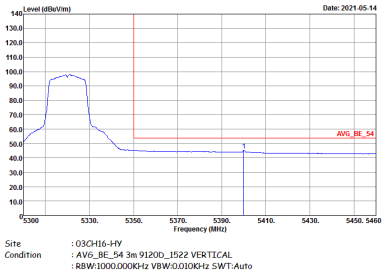
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

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

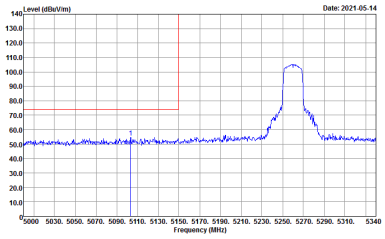
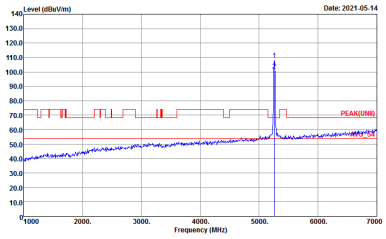
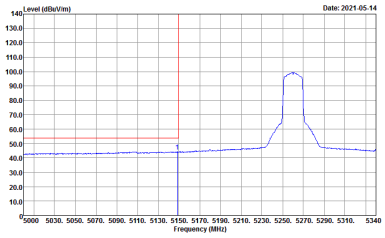
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

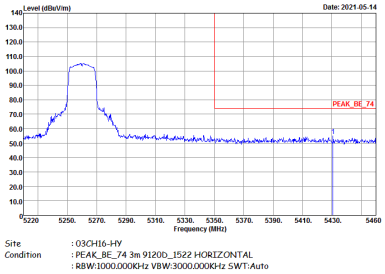
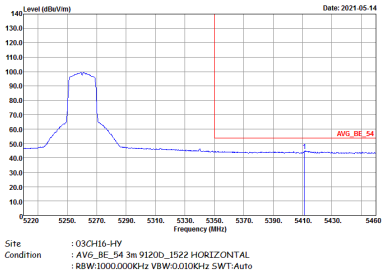
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

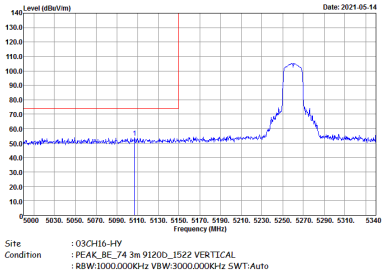
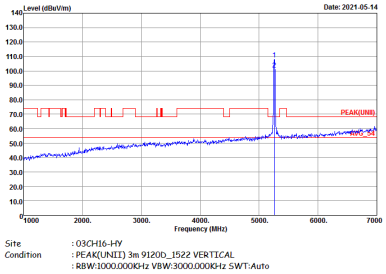
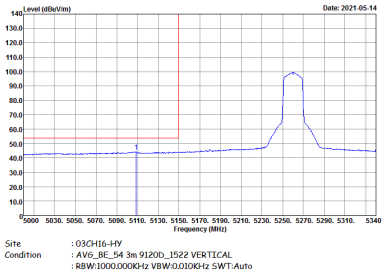
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

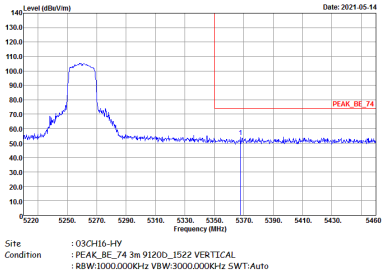
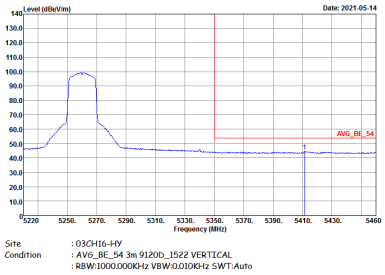
Band 2 5250~5350MHz

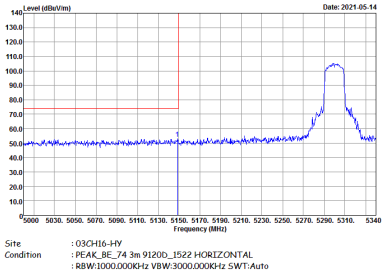
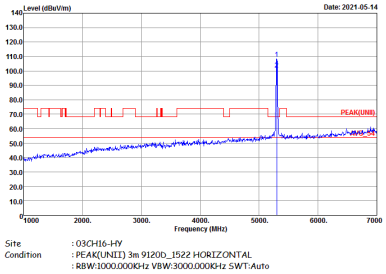
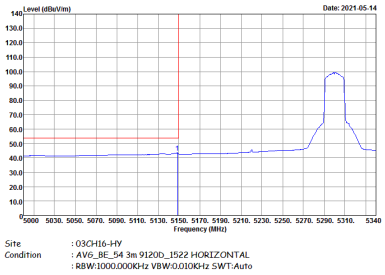
WIFI 802.11n HT20 (Band Edge @ 3m)

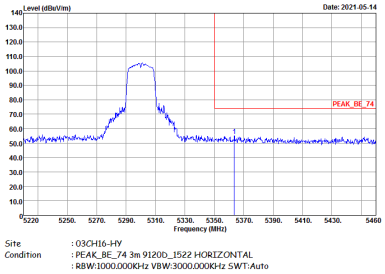
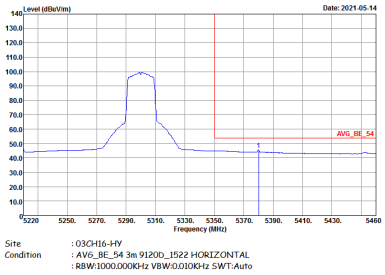
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

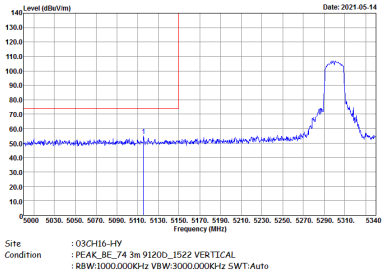
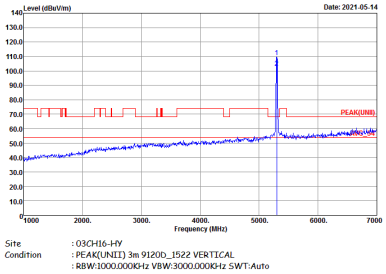
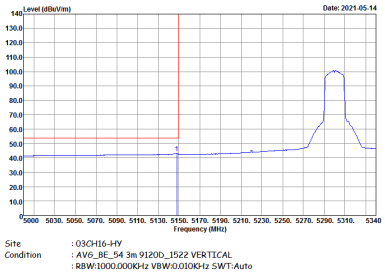
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

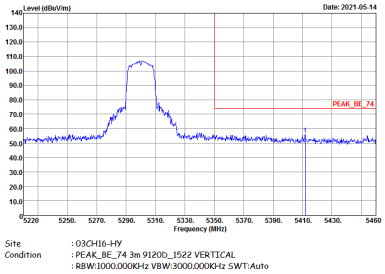
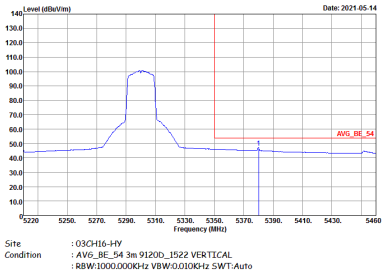
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

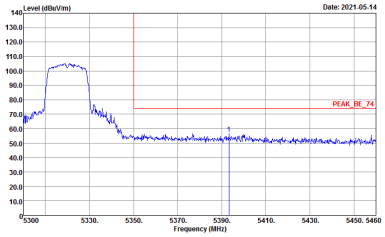
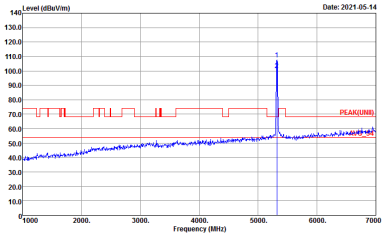
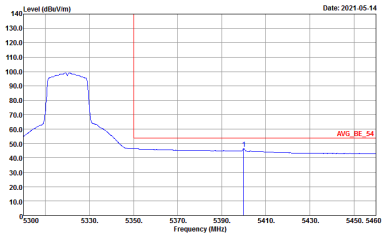
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

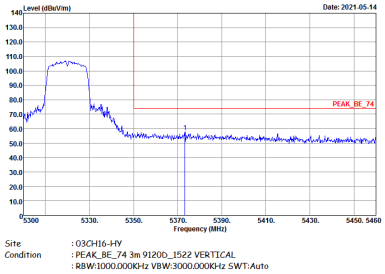
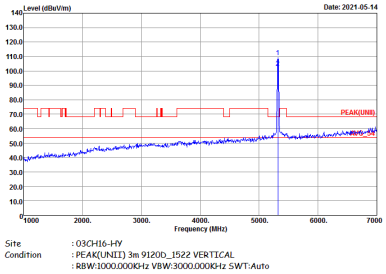
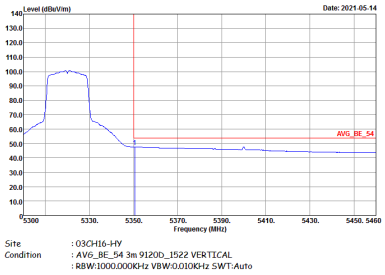
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

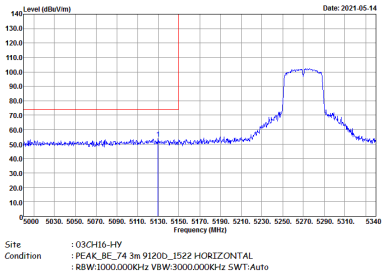
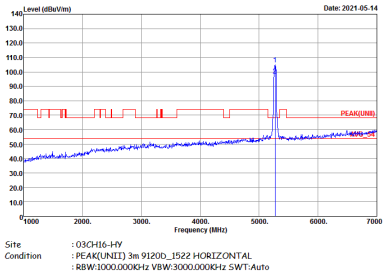
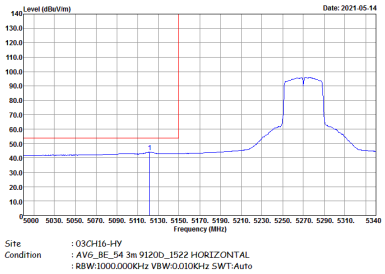
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

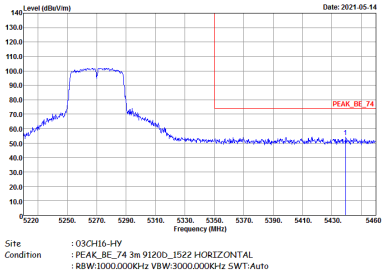
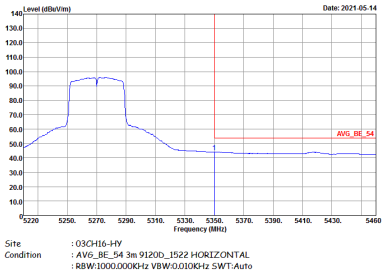
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AV6_BE_54 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

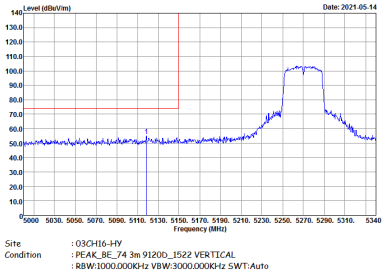
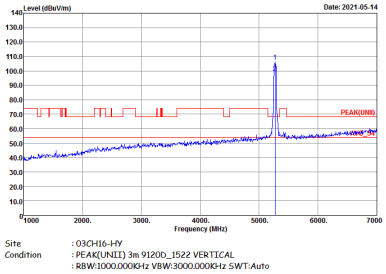
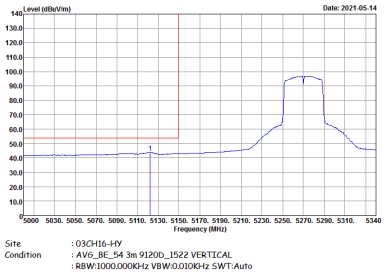
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

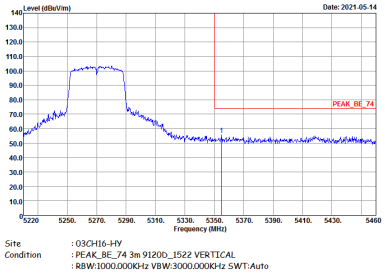
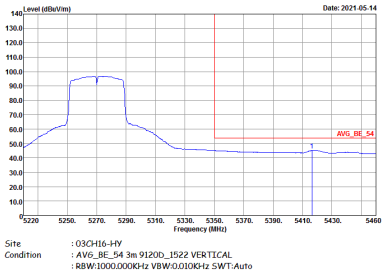
Band 2 5250~5350MHz

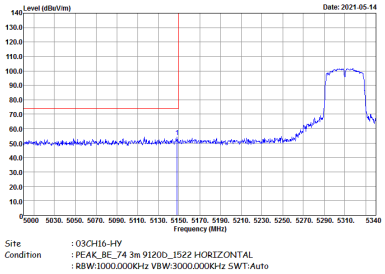
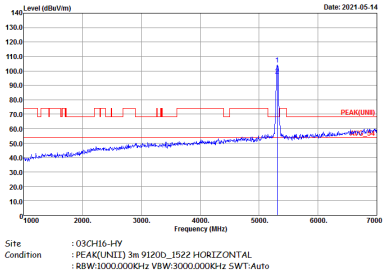
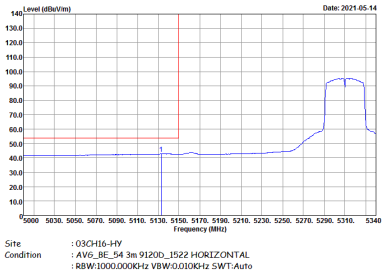
WIFI 802.11n HT40 (Band Edge @ 3m)

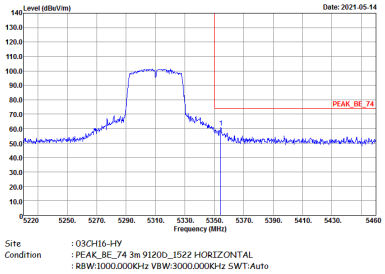
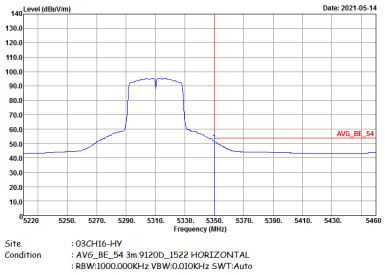
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

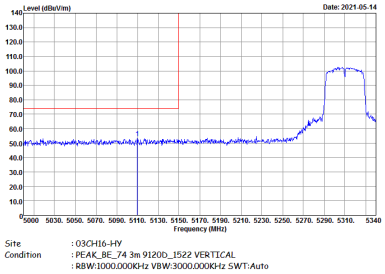
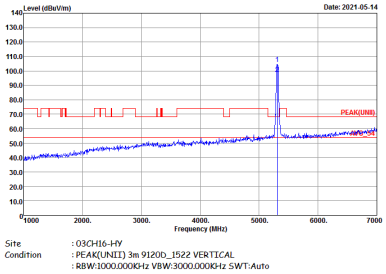
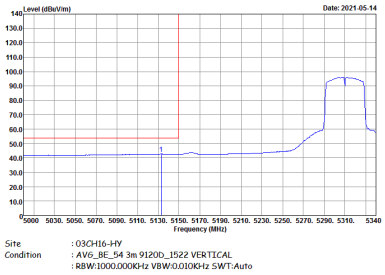
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

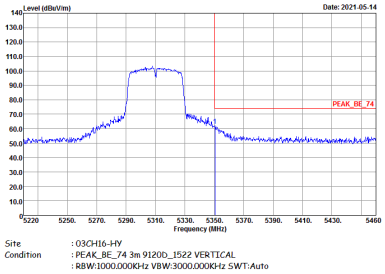
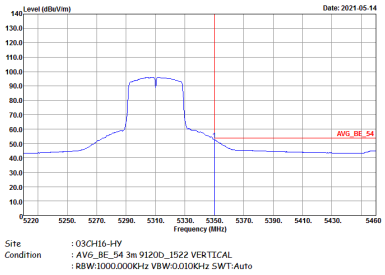
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

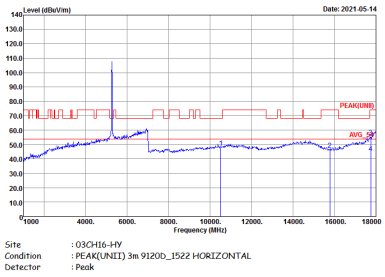
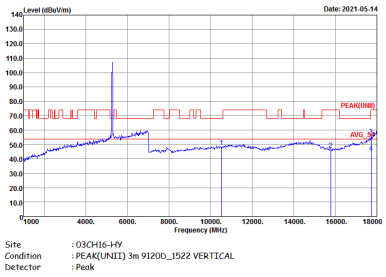
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

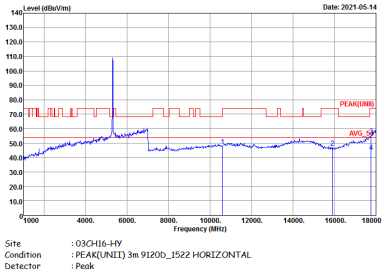
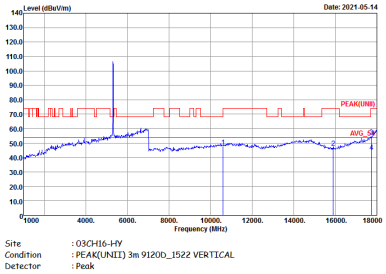
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

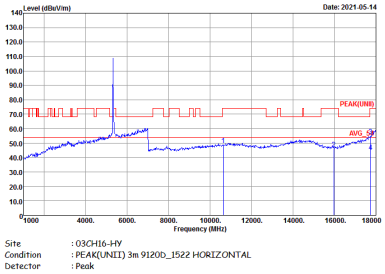
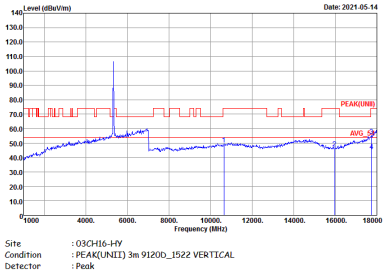
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

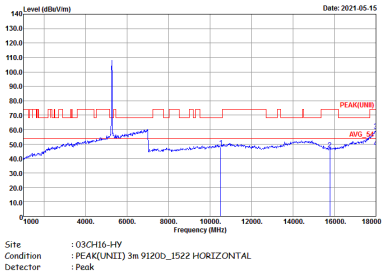
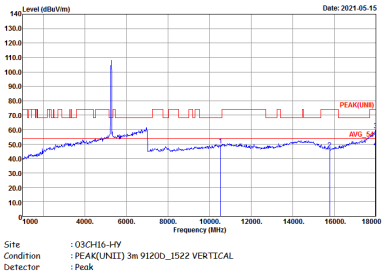
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

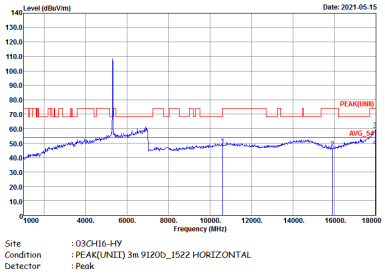
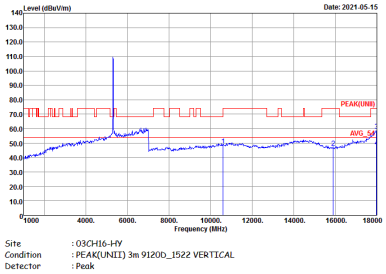
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

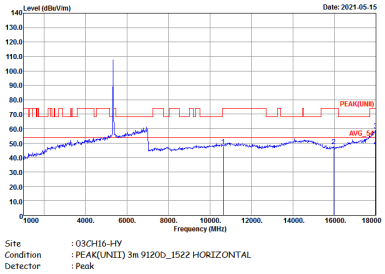
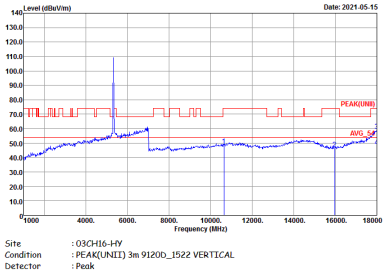
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

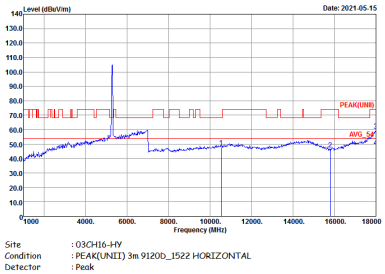
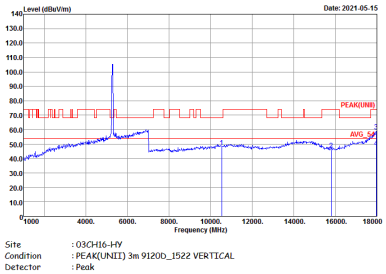
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1	Horizontal	Vertical
Peak Avg.		

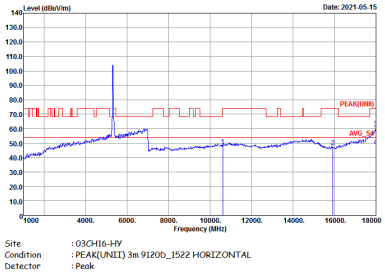
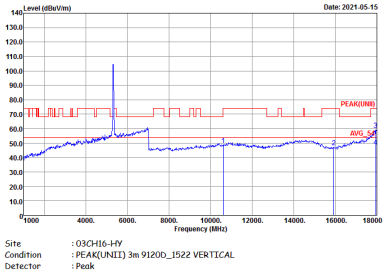
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

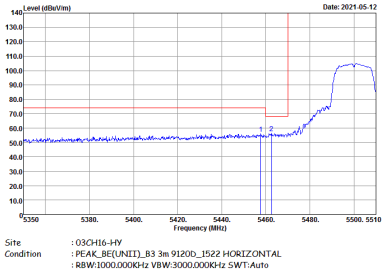
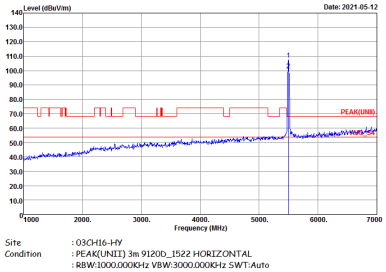
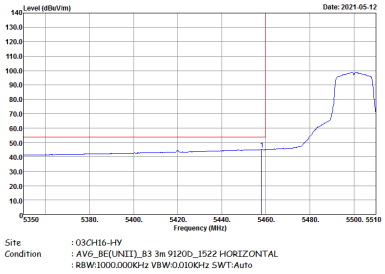
WIFI 802.11n HT40 (Harmonic @ 3m)

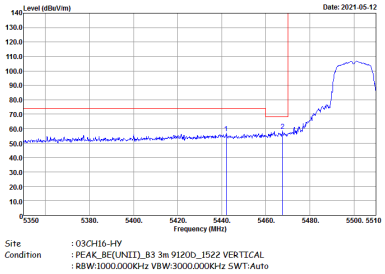
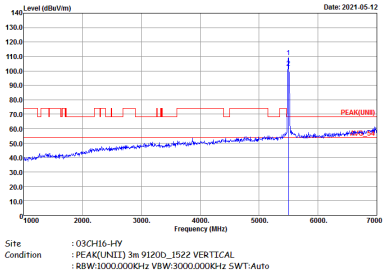
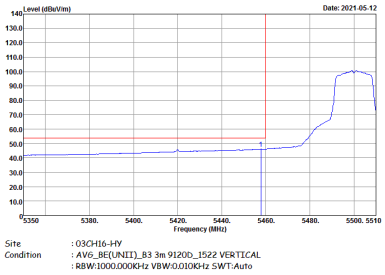
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1	Horizontal	Vertical
Peak Avg.		

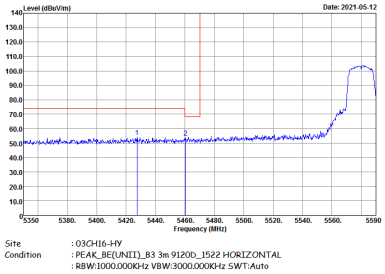
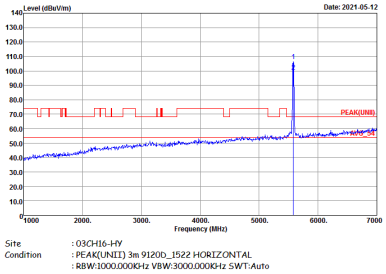
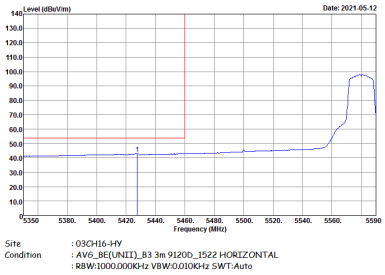
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.		

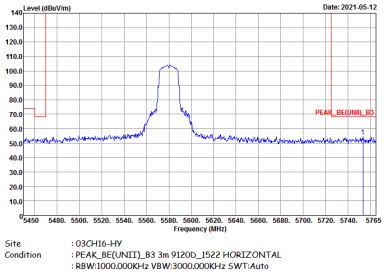
Band 3 - 5470~5725MHz

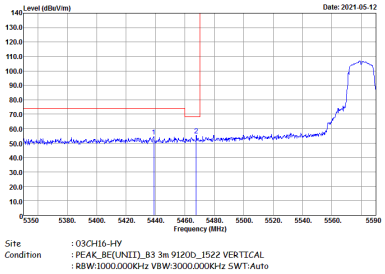
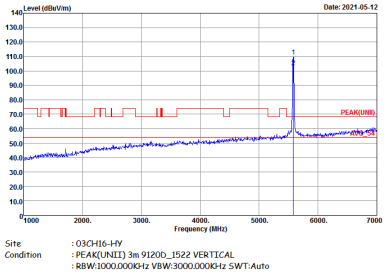
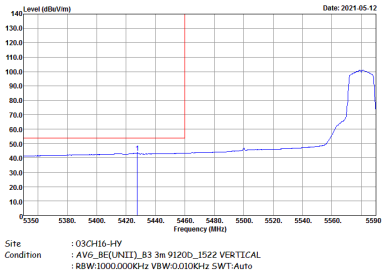
WIFI 802.11a (Band Edge @ 3m)

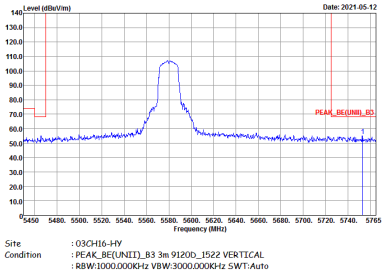
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

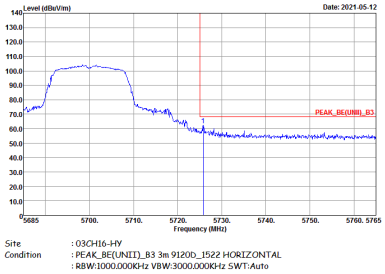
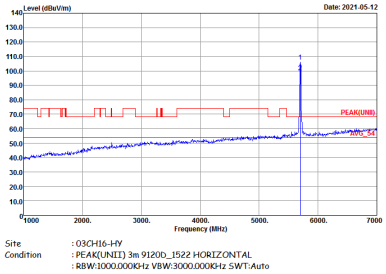
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

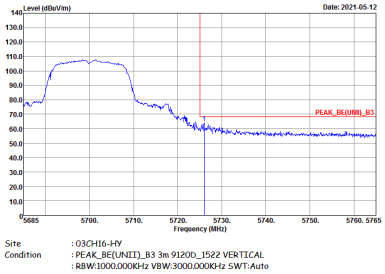
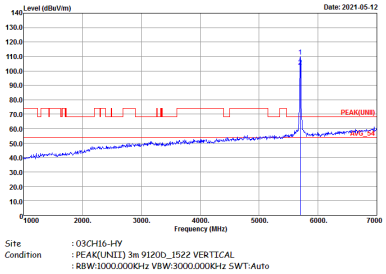
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

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

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

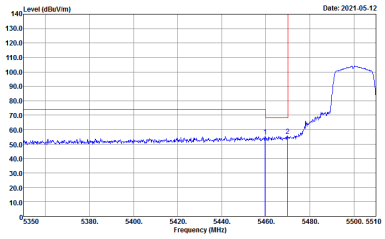
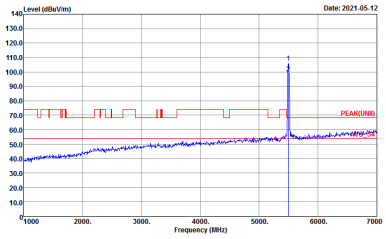
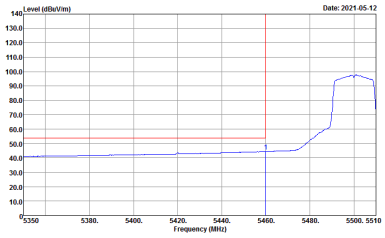
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

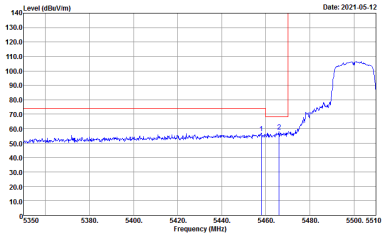
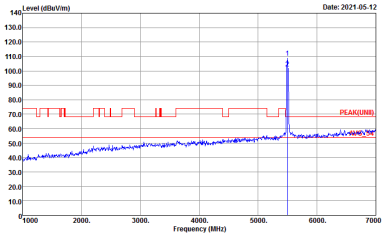
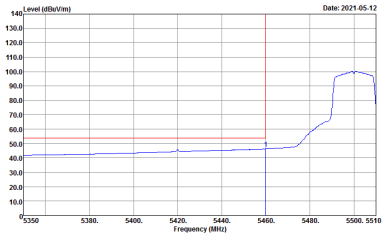
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

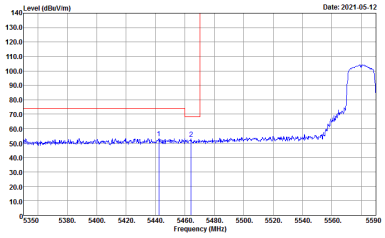
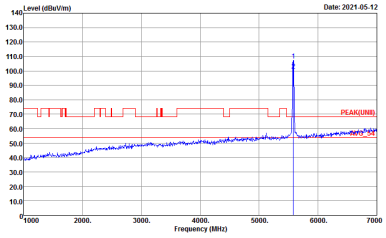
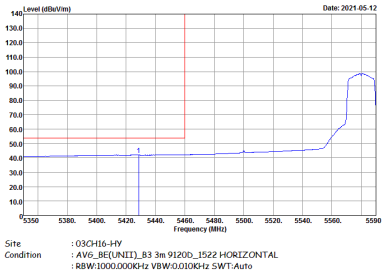
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak		

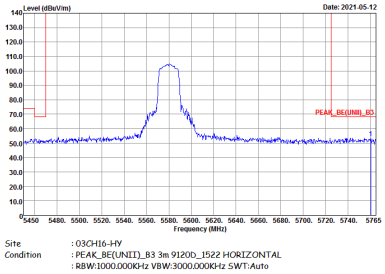
Band 3 5470~5725MHz

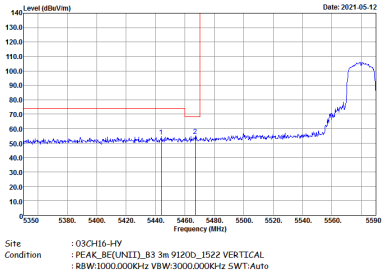
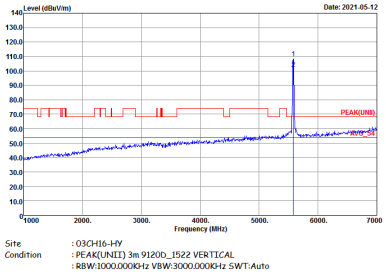
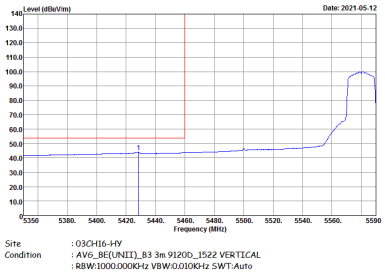
WIFI 802.11n HT20 (Band Edge @ 3m)

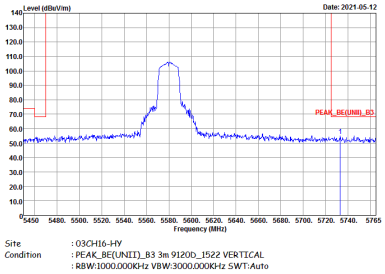
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE(UNII)_B3 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

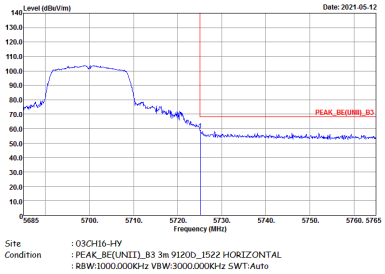
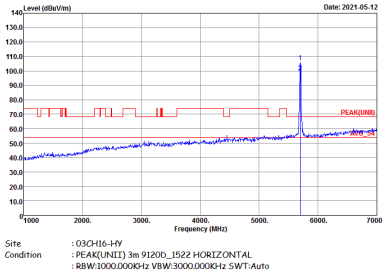
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AV6_BE(UNII)_B3 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

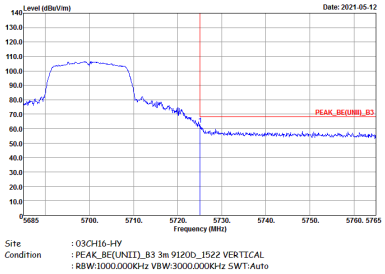
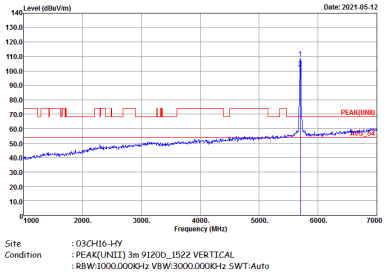
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

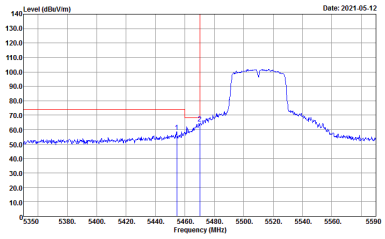
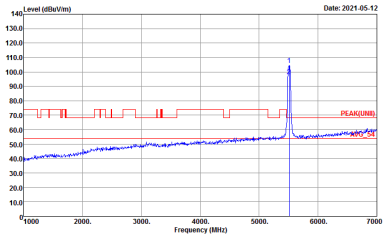
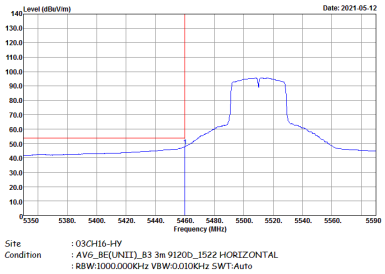
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

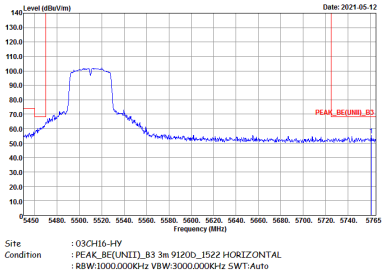
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1	Vertical	Fundamental
Peak		Left blank

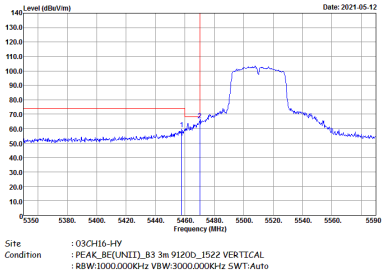
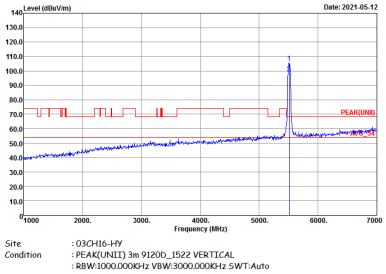
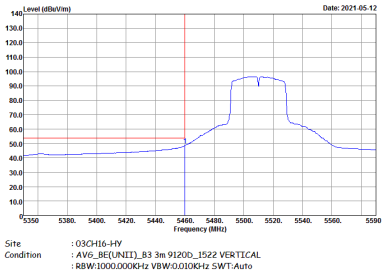
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak		

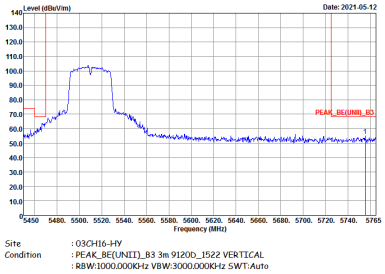
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak.		

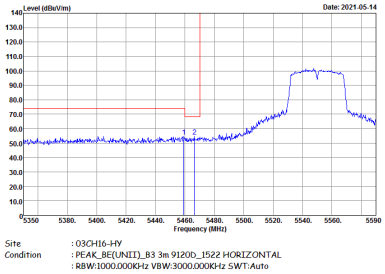
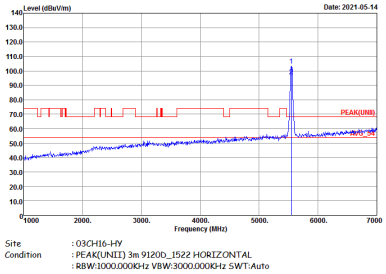
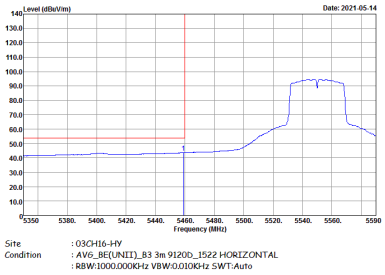
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

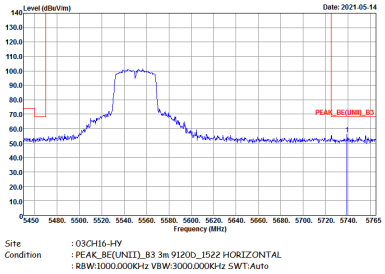
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

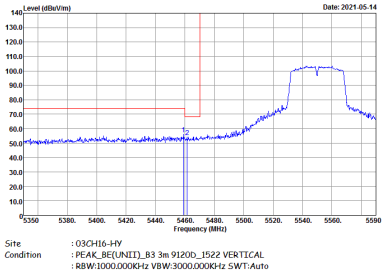
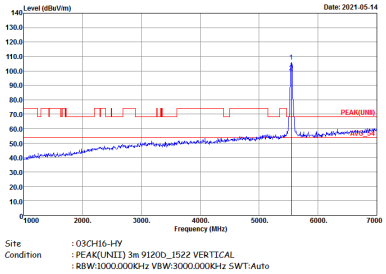
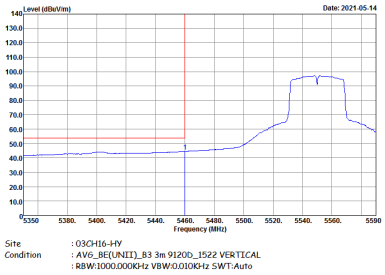
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

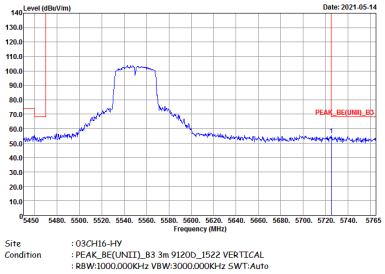
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

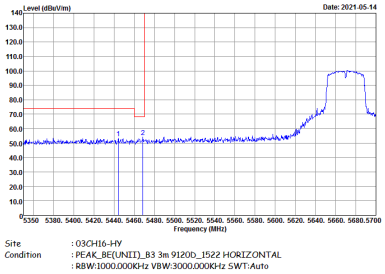
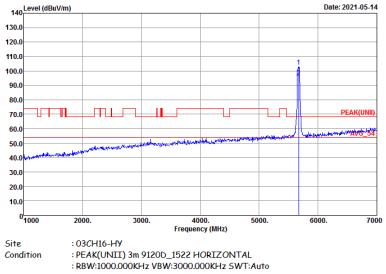
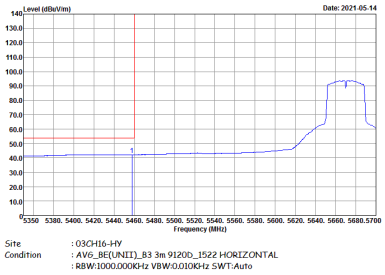
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1	Vertical	Fundamental
Peak		Left blank

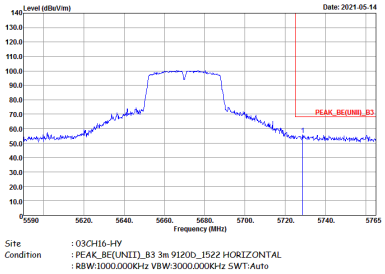
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

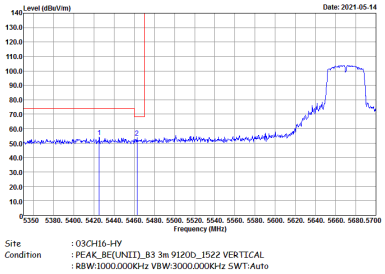
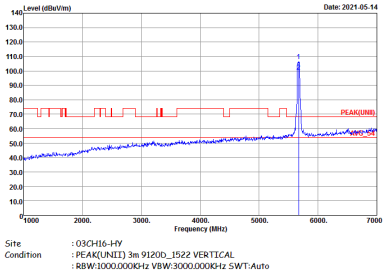
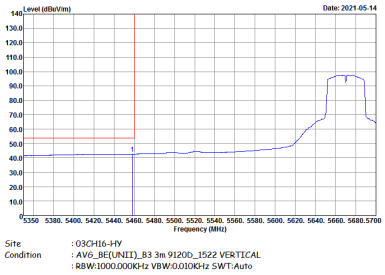
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

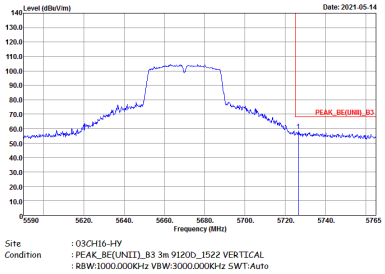
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

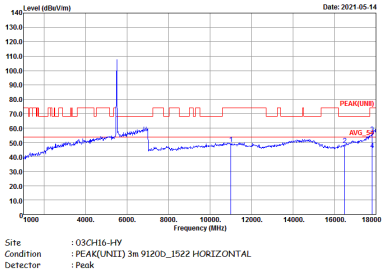
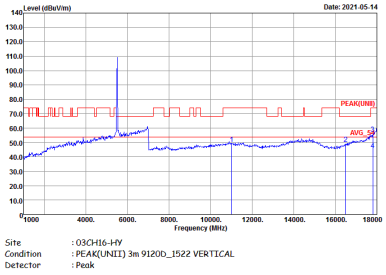
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

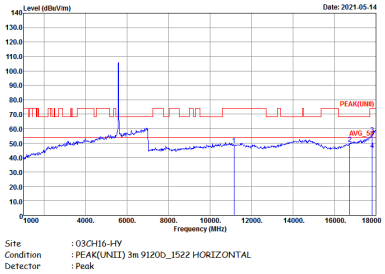
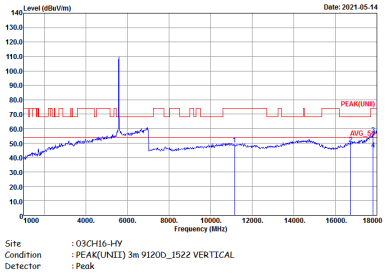
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

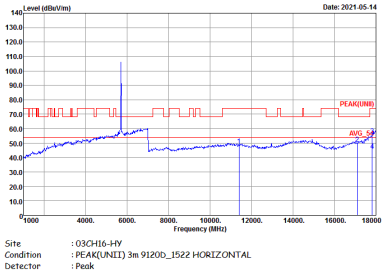
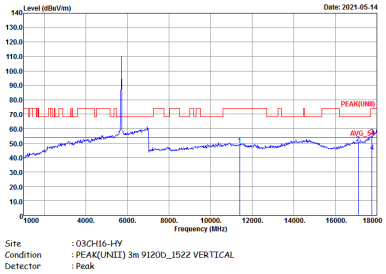
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

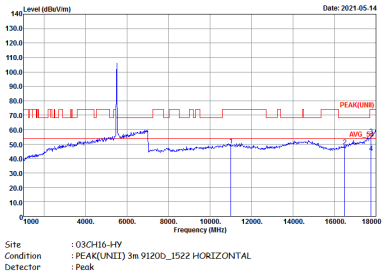
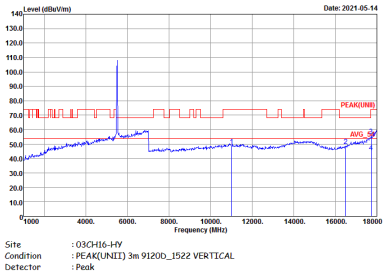
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

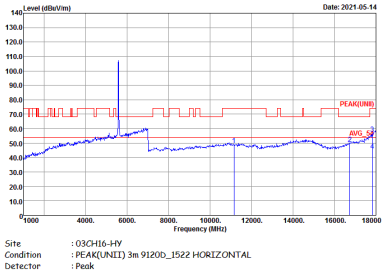
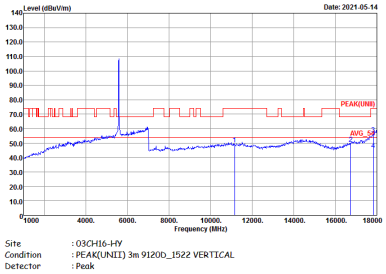
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

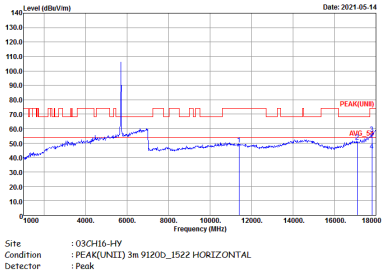
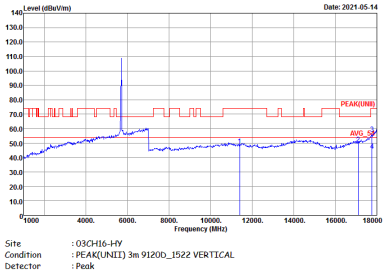
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

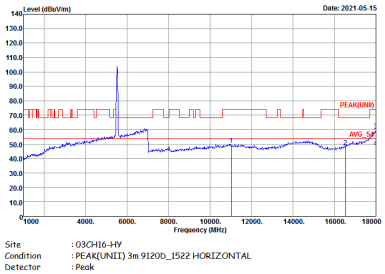
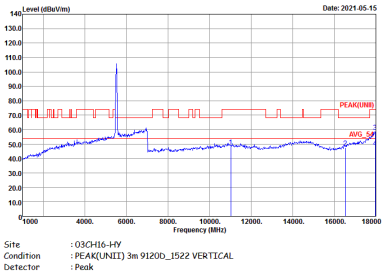
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1	Horizontal	Vertical
Peak Avg.		

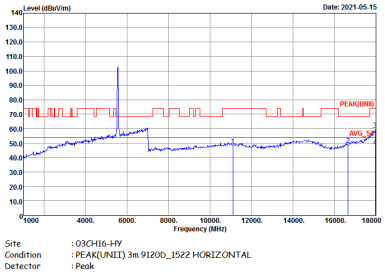
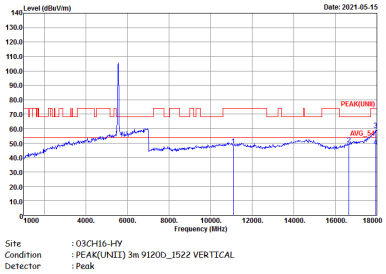
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1	Horizontal	Vertical
Peak Avg.		

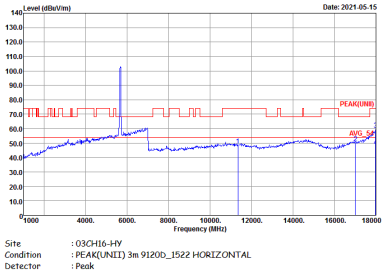
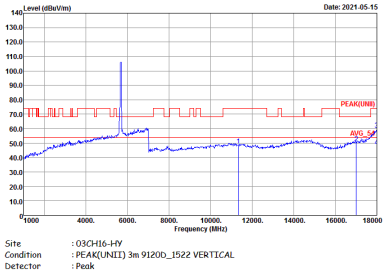
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

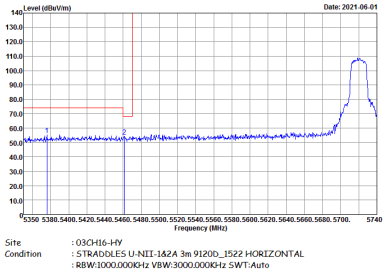
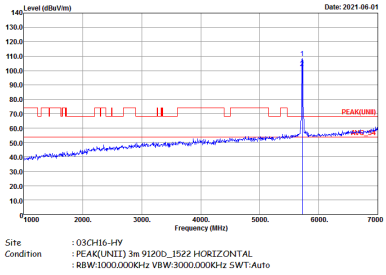
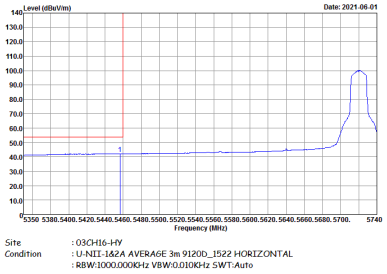
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1	Horizontal	Vertical
Peak Avg.		

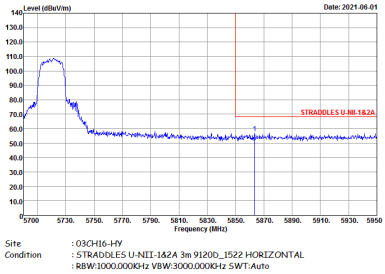
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1	Horizontal	Vertical
Peak Avg.		

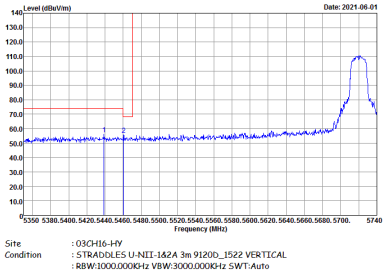
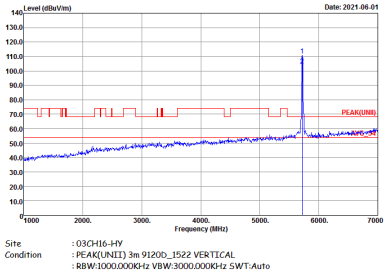
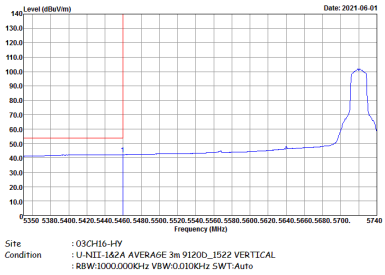
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1	Horizontal	Vertical
Peak Avg.		

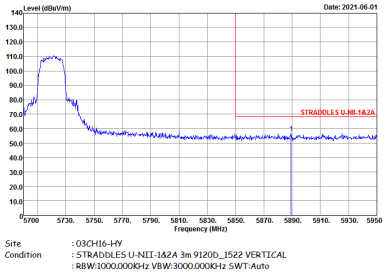
Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

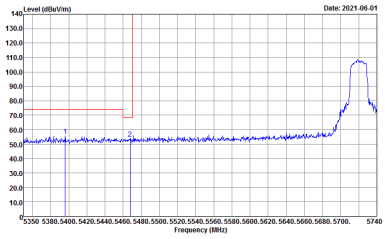
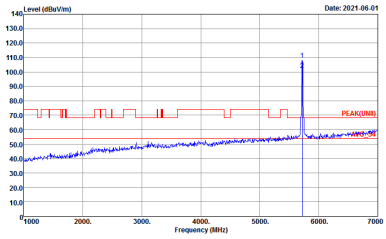
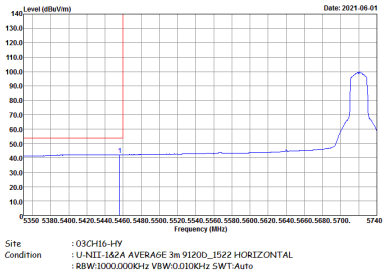
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz – R	
1	Horizontal	Fundamental
Peak		Left blank

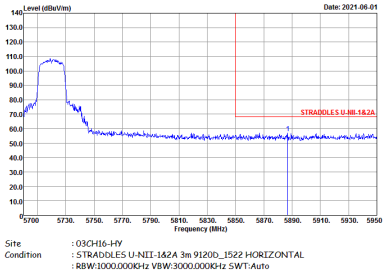
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

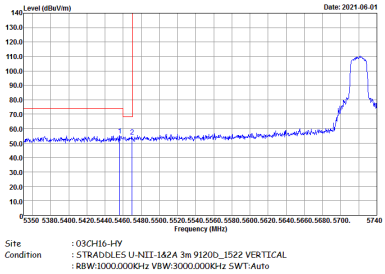
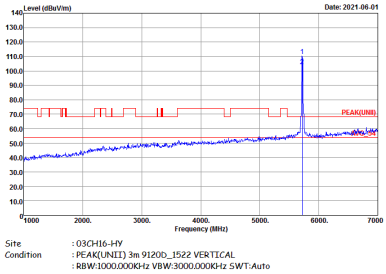
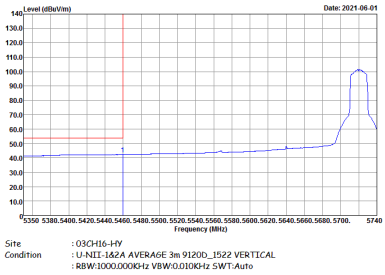
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11a CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank

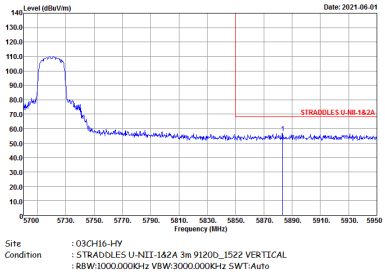
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		Left blank

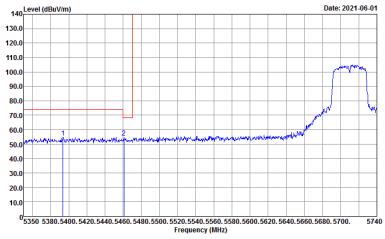
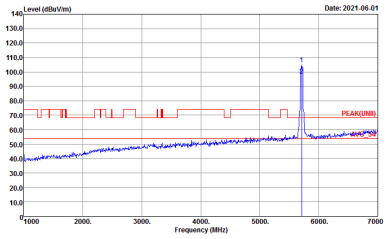
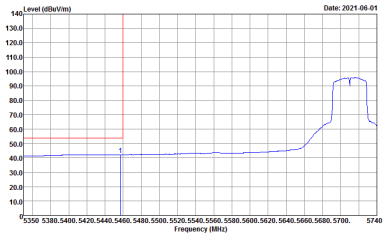
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

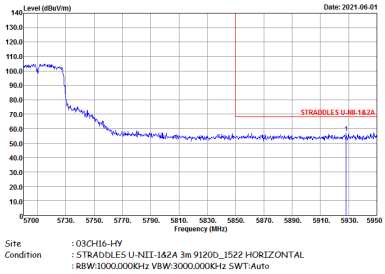
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

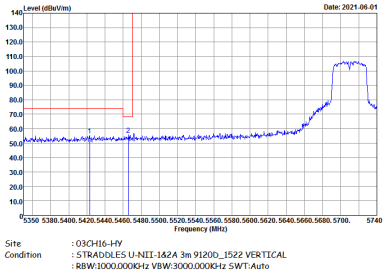
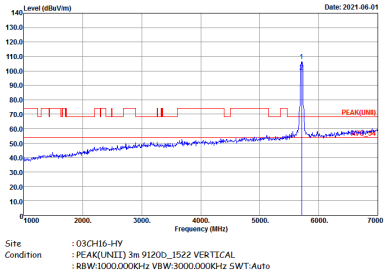
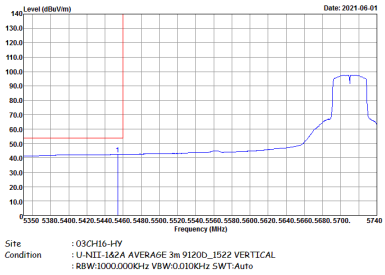
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH144 5720MHz - R	
1	Vertical	Fundamental
Peak		Left blank

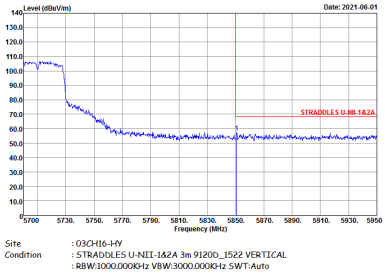
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : STRADDLES U-NII-1&2A 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : U-NII-1&2A AVERAGE 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Left blank

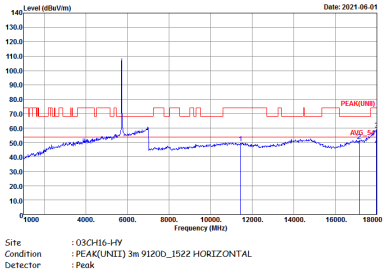
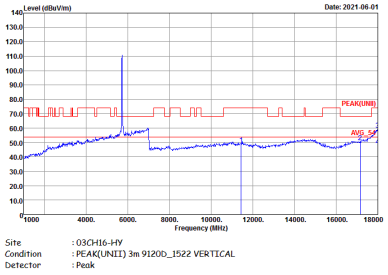
WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - L	
1	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 Straddle Channel Band Edge @ 3m	
ANT	802.11n CH142 5710MHz - R	
1	Vertical	Fundamental
Peak		Left blank

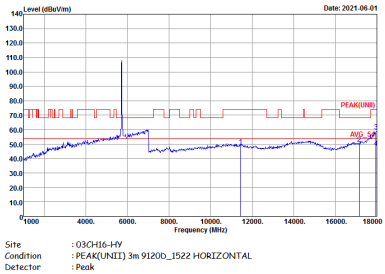
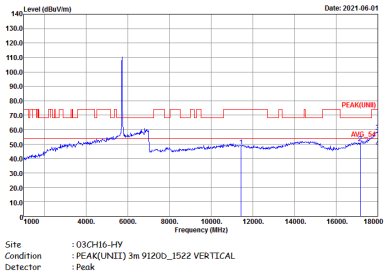
Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

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

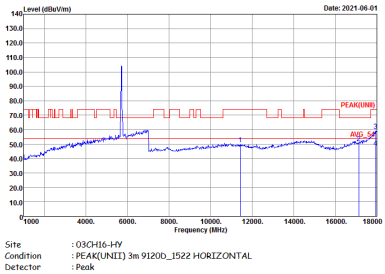
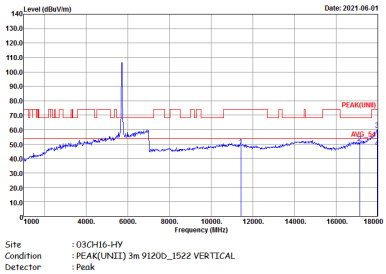
Band 3 – Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

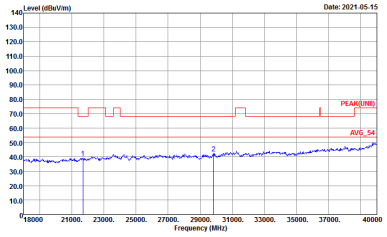
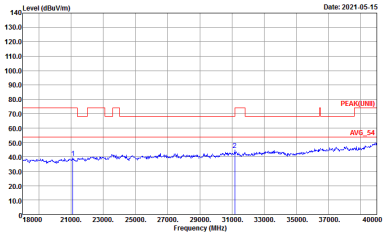
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1	Horizontal	Vertical
Peak Avg.		

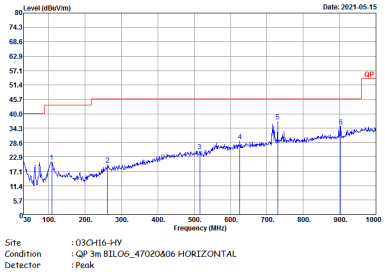
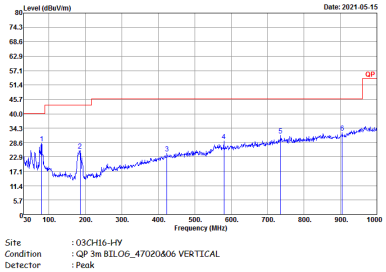
Emission above 18GHz

5GHz WIFI 802.11n HT40 (SHF)

WIFI	5GHz WIFI	
ANT	802.11n HT40 SHF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 1m SHF HORN BBHA9170584 HORIZONTAL Detector : Peak	 Site : 03CH16-HY Condition : PEAK(UNII) 1m SHF HORN BBHA9170584 VERTICAL Detector : Peak

Emission below 1GHz

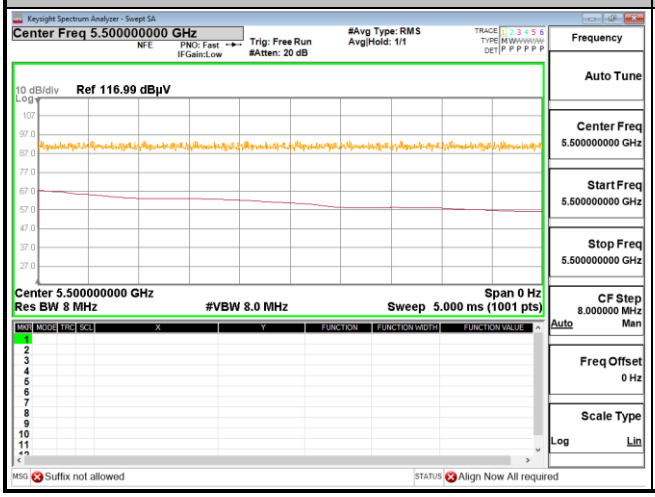
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

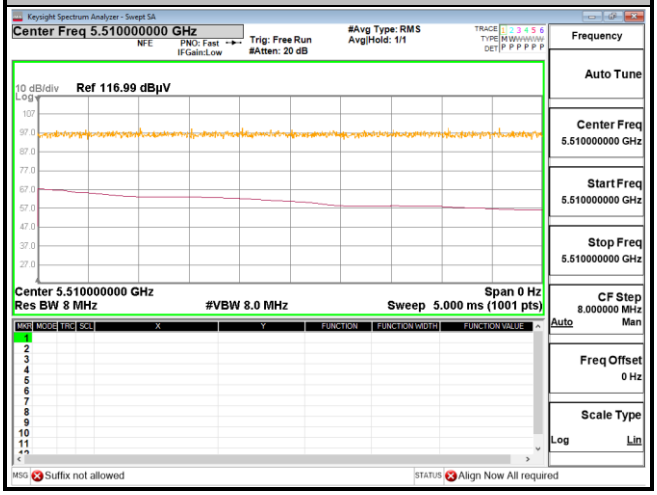
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11a	100.00	-	-	10Hz	0.00
5GHz 802.11n HT20	100.00	-	-	10Hz	0.00
5GHz 802.11n HT40	100.00	-	-	10Hz	0.00

802.11a



802.11n HT20

802.11n HT40



———THE END———