



FCC RADIO TEST REPORT

FCC ID : HD5-CT30PL0N
Equipment : Mobile computer
Brand Name : Honeywell
Model Name : CT30PL0N
Applicant : Honeywell International Inc.
9680 Old Bailes Road, Fort Mill, SC 29707 USA
Manufacturer : Honeywell International Inc.
9680 Old Bailes Road, Fort Mill, SC 29707 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 08, 2023 and testing was performed from May 20, 2023 to Jul. 04, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR1N0506-07A	01	Initial issue of report	Jul. 06, 2023
FR1N0506-07A	02	Revise Appendix A This report is an updated version, replacing the report issued on Jul. 06, 2023.	Jul. 21, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.403(i)	26dB Bandwidth	Not Required	-
-	2.1049	99% Occupied Bandwidth	Not Required	-
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
-	15.407(a)	Power Spectral Density	Not Required	-
3.2	15.407(b)	Unwanted Emissions	Pass	2.19 dB under the limit at 5725.00 MHz
-	15.207	AC Conducted Emission	Not Required	-
3.3	15.203	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 reducing power for WLAN (5GHz) CH140 band via software. All the test cases were performed on original report which can be referred to Sporton Report Number FR1N0506-05C. Based on the original report, only worst case was verified.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen
Report Producer: Rachel Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac and NFC.
Sample 1	with Scanner (S0703)
Sample 2	Non Scanner
HW Version	v1.0
SW Version	OS.11.001
Antenna Type	WLAN 5GHz <Ant. 1>: PIFA Antenna WLAN 2.4GHz <Ant. 2>: PIFA Antenna Bluetooth: PIFA Antenna NFC: Loop Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	3.3
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	2.8
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	2.8

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. Internal tracking board version is DVT2(NFC) and SW PN is 311.C0.00.1069-G-DEBUG

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

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. TH05-HY, 03CH13-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by 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.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
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 (1 GHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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 only the worst case emissions were reported in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



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

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

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "#" is 802.11ac VHT80.

2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11ac VHT80	MCS0

Ch. #		Band I : 5150-5250 MHz	Band III : 5470-5725MHz
		802.11a	802.11ac VHT20
L	Low	36	-
M	Middle	-	-
H	High	-	140

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	-

Remark:

1. For Radiated Test Cases, the tests were performed with Sample 1.
2. For radiation spurious emission, the modulation and the data rate picked for testing are determined by 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.	Notebook	Acer	N18Q13	PD9AX201NG	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4 Version 4.0.211.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

3.1.2 Measuring Instruments

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

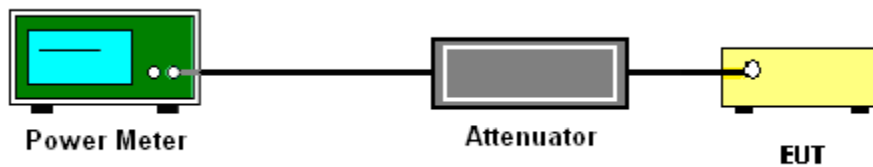
3.1.3 Test Procedures

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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions falls 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.

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



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.

3.2.2 Measuring Instruments

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

3.2.3 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 Peak Unwanted Emissions Measurements Above 1000 MHz

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

(2) 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 is placed on a turntable with 1.5 meter for frequency above 1 GHz respectively above ground.

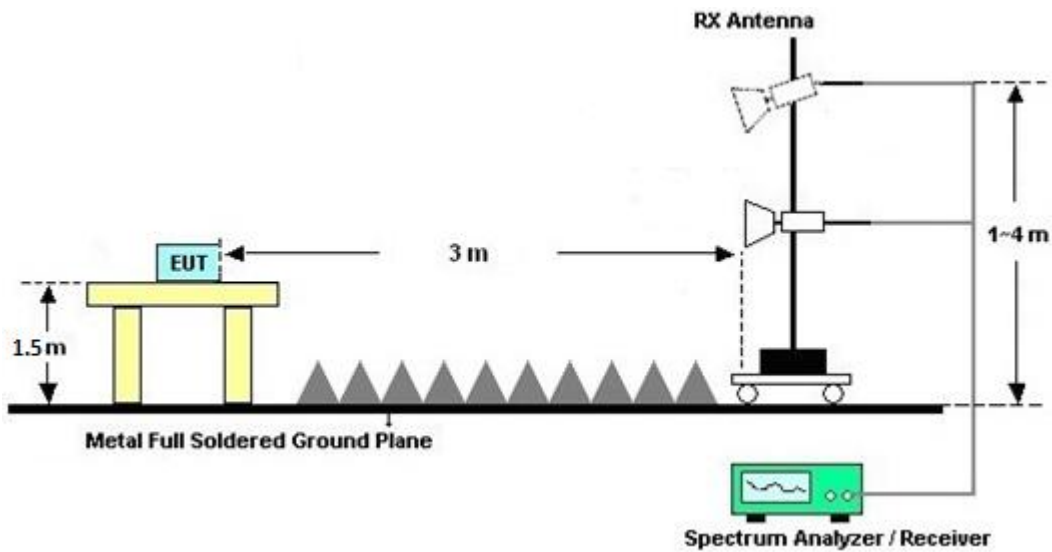
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.

4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

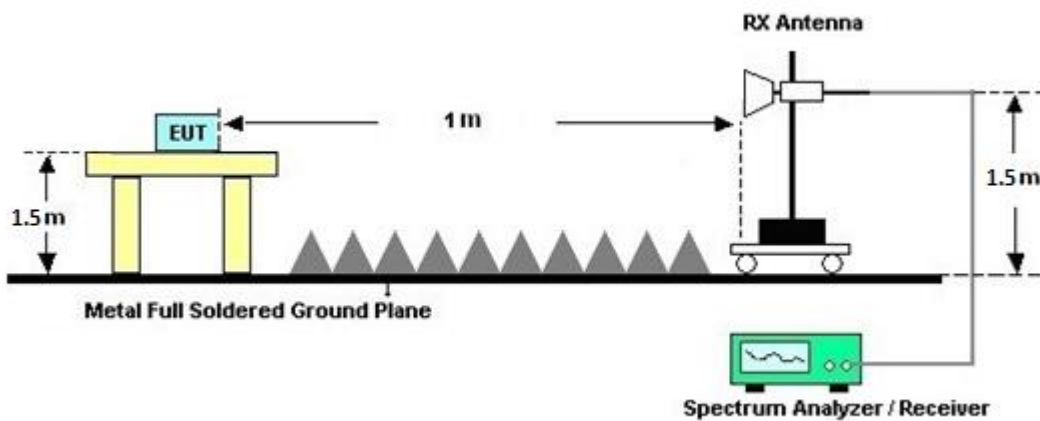
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.2.4 Test Setup

For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.2.5 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.2.6 Duty Cycle

Please refer to Appendix D.

3.2.7 Test Result of Radiated Spurious Emissions

Please refer to Appendix B and C.



3.3 Antenna Requirements

3.3.1 Standard Applicable

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

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	May 20, 2023~ Jul. 04, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	May 20, 2023~ Jul. 04, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	May 20, 2023~ Jul. 04, 2023	Aug. 02, 2023	Conducted (TH05-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	May 24, 2023~ May 25, 2023	Dec. 06, 2023	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2022	May 24, 2023~ May 25, 2023	Nov. 23, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	May 24, 2023~ May 25, 2023	Dec. 19, 2023	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 24, 2022	May 24, 2023~ May 25, 2023	Aug. 23, 2023	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 16, 2023	May 24, 2023~ May 25, 2023	May 15, 2024	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 25, 2022	May 24, 2023~ May 25, 2023	Oct. 24, 2023	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 23, 2023	May 24, 2023~ May 25, 2023	Mar. 22, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 09, 2023	May 24, 2023~ May 25, 2023	Mar. 08, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 08, 2023	May 24, 2023~ May 25, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 08, 2023	May 24, 2023~ May 25, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 08, 2023	May 24, 2023~ May 25, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
Hygrometer	TECEPEL	DTM-303B	TP140325	N/A	Nov. 07, 2022	May 24, 2023~ May 25, 2023	Nov. 06, 2023	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 24, 2023~ May 25, 2023	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 24, 2023~ May 25, 2023	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 24, 2023~ May 25, 2023	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	May 24, 2023~ May 25, 2023	N/A	Radiation (03CH13-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	James Li	Temperature:	21~25	°C
Test Date:	2023/5/20~2023/7/4	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	15.70	-	-	-	-	-	-	-	Pass
VHT80	MCS1	1	42	5210	12.90	-	-	-	-	-	-	-	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna													
Mod.	Data Rate	N _{TX}	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		
VHT80	MCS1	1	58	5290	15.40	-	-	-	-	-	-	30	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna													
Mod.	Data Rate	N _{TX}	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		
HT20	MCS0	1	140	5700	14.80	-	-	-	-	-	-	30	Pass
VHT80	MCS1	1	106	5530	15.50	-	-	-	-	-	-	30	Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Jacky Hung, Mancy Chou, Michael Liu and	Temperature :	20~26°C
	Rain Lee	Relative Humidity :	40~65%

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 36 5180MHz		10360	48.13	-20.07	68.2	54.72	39.06	10.71	56.36	-	-	P	H	
		15540	56.6	-17.4	74	61.53	38.24	12.57	55.74	222	62	P	H	
		15540	47.25	-6.75	54	52.18	38.24	12.57	55.74	222	62	A	H	
													H	
													H	
													H	
														H
														H
			10360	50.99	-17.21	68.2	57.58	39.06	10.71	56.36	200	6	P	V
			15540	52.67	-21.33	74	57.6	38.24	12.57	55.74	100	54	P	V
			15540	42.74	-11.26	54	47.67	38.24	12.57	55.74	100	54	A	V
														V
														V
														V
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5144.04	57.38	-16.62	74	45.01	33.2	6.61	27.44	196	296	P	H
		5147.94	49.26	-4.74	54	36.88	33.2	6.62	27.44	196	296	A	H
	*	5210	94.54	-	-	82.07	33.18	6.72	27.43	196	296	P	H
	*	5210	87.67	-	-	75.2	33.18	6.72	27.43	196	296	A	H
		5459.16	52.89	-21.11	74	40.36	33.1	6.83	27.4	196	296	P	H
		5458.04	44.17	-9.83	54	31.65	33.1	6.83	27.41	196	296	A	H
		5145.08	56.38	-17.62	74	44.01	33.2	6.61	27.44	119	13	P	V
		5147.68	49.15	-4.85	54	36.77	33.2	6.62	27.44	119	13	A	V
	*	5210	94.71	-	-	82.24	33.18	6.72	27.43	119	13	P	V
	*	5210	87.41	-	-	74.94	33.18	6.72	27.43	119	13	A	V
		5449.36	51.97	-22.03	74	39.45	33.1	6.83	27.41	119	13	P	V
	5454.12	44.12	-9.88	54	31.6	33.1	6.83	27.41	119	13	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5104.38	54.34	-19.66	74	42.05	33.2	6.54	27.45	189	295	P	H
		5056.1	45.78	-8.22	54	33.4	33.38	6.45	27.45	189	295	A	H
	*	5290	97.29	-	-	84.85	33.1	6.77	27.43	189	295	P	H
	*	5290	89.55	-	-	77.11	33.1	6.77	27.43	189	295	A	H
		5350.56	64.99	-9.01	74	52.49	33.1	6.82	27.42	189	295	P	H
		5350.08	48.79	-5.21	54	36.29	33.1	6.82	27.42	189	295	A	H
		5134.64	55.2	-18.8	74	42.85	33.2	6.59	27.44	301	344	P	V
		5055.42	45.69	-8.31	54	33.31	33.38	6.45	27.45	301	344	A	V
	*	5290	97.84	-	-	85.4	33.1	6.77	27.43	301	344	P	V
	*	5290	89.59	-	-	77.15	33.1	6.77	27.43	301	344	A	V
		5353.44	63.53	-10.47	74	51.03	33.1	6.82	27.42	301	344	P	V
		5350.32	49.07	-4.93	54	36.57	33.1	6.82	27.42	301	344	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 140 5700MHz	*	5700	106.73	-	-	93.73	33.6	6.85	27.45	296	0	P	V
	*	5700	99.52	-	-	86.52	33.6	6.85	27.45	296	0	A	V
		5725	66.01	-2.19	68.2	52.86	33.75	6.86	27.46	296	0	P	V
													H
													H
													H
	*	5700	103.71	-	-	90.71	33.6	6.85	27.45	199	299	P	H
	*	5700	97.03	-	-	84.03	33.6	6.85	27.45	199	299	A	H
		5725.08	61.03	-7.17	68.2	47.88	33.75	6.86	27.46	199	299	P	H
													V
												V	
												V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5448.64	54.35	-19.65	74	41.83	33.1	6.83	27.41	196	81	P	H
		5467.12	58.42	-9.78	68.2	45.9	33.1	6.82	27.4	196	81	P	H
		5458.24	46.22	-7.78	54	33.7	33.1	6.83	27.41	196	81	A	H
	*	5530	97.31	-	-	84.82	33.1	6.8	27.41	196	81	P	H
	*	5530	89.46	-	-	76.97	33.1	6.8	27.41	196	81	A	H
		5742.635	53.02	-15.18	68.2	39.74	33.86	6.88	27.46	196	81	P	H
		5459.68	57.03	-16.97	74	44.5	33.1	6.83	27.4	194	15	P	V
		5469.52	58.21	-9.99	68.2	45.69	33.1	6.82	27.4	194	15	P	V
		5459.44	47.77	-6.23	54	35.24	33.1	6.83	27.4	194	15	A	V
	*	5530	99.69	-	-	87.2	33.1	6.8	27.41	194	15	P	V
	*	5530	91.35	-	-	78.86	33.1	6.8	27.41	194	15	A	V
		5730.98	53.5	-14.7	68.2	40.3	33.79	6.87	27.46	194	15	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 36		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5180MHz													

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

For Peak Limit @ 5150MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 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 :	Jacky Hung, Mancy Chou, Michael Liu and Rain Lee	Temperature :	20~26°C
		Relative Humidity :	40~65%

Note symbol

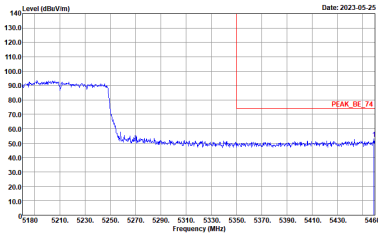
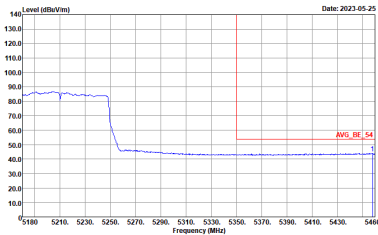
-L	Low channel location
-R	High channel location



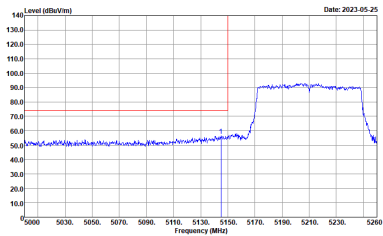
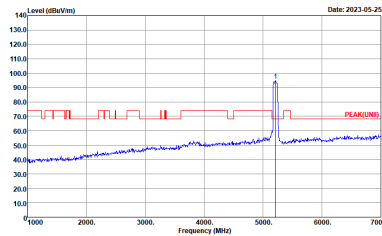
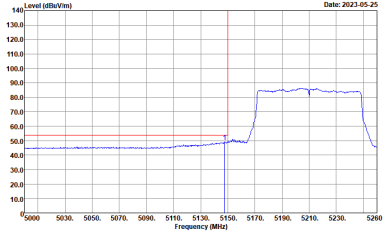
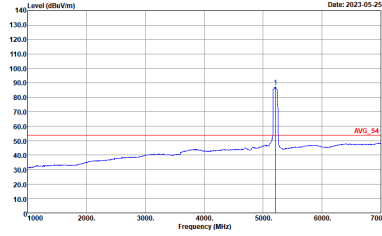
Band 1 - 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	<p>Level (dBm/Vm) vs Frequency (MHz) plot. Date: 2023-05-25. Site: 03CH13-HY. Condition: PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL. RBW:1000.000kHz VBW:3000.000kHz SWT:Auto.</p>	<p>Level (dBm/Vm) vs Frequency (MHz) plot. Date: 2023-05-25. Site: 03CH13-HY. Condition: PEAK(FUNDT) 3m HORN_91200_1326 HORIZONTAL. RBW:1000.000kHz VBW:3000.000kHz SWT:Auto.</p>
Avg.	<p>Level (dBm/Vm) vs Frequency (MHz) plot. Date: 2023-05-25. Site: 03CH13-HY. Condition: AVG_BE_54 3m HORN_91200_1326 HORIZONTAL. RBW:1000.000kHz VBW:3.000kHz SWT:Auto.</p>	<p>Level (dBm/Vm) vs Frequency (MHz) plot. Date: 2023-05-25. Site: 03CH13-HY. Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL. RBW:1000.000kHz VBW:3.000kHz SWT:Auto.</p>

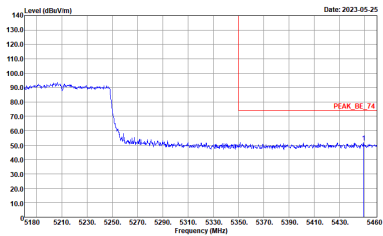
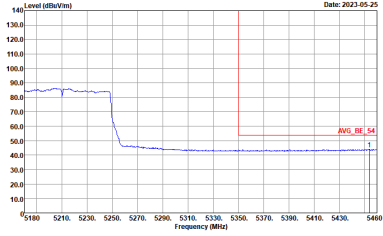


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal level rising from approximately 50 dBm/100kHz at 5150 MHz to about 90 dBm/100kHz at 5210 MHz. A red vertical line is at 5210 MHz. The date is 2023-05-25.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level rising from approximately 50 dBm/100kHz at 5150 MHz to about 90 dBm/100kHz at 5210 MHz. A red vertical line is at 5210 MHz. The date is 2023-05-25.</p> <p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Vertical. The plot shows a signal level rising from approximately 50 dBm/100kHz at 5150 MHz to about 90 dBm/100kHz at 5210 MHz. A red vertical line is at 5210 MHz. The date is 2023-05-25.</p> <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level rising from approximately 50 dBm/100kHz at 5150 MHz to about 90 dBm/100kHz at 5210 MHz. A red vertical line is at 5210 MHz. The date is 2023-05-25.</p> <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	Left blank

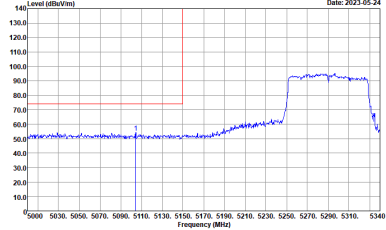
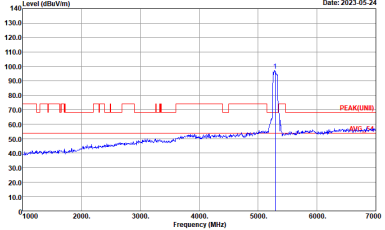
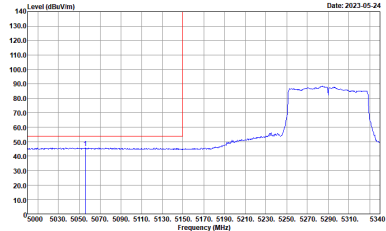
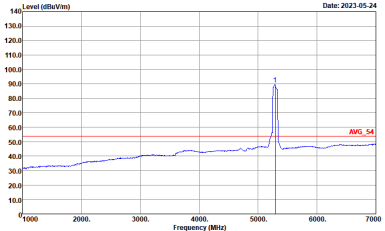


Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK[UNII] 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK[UNII] 3m HORN_91200_1326 VERTICAL</p>



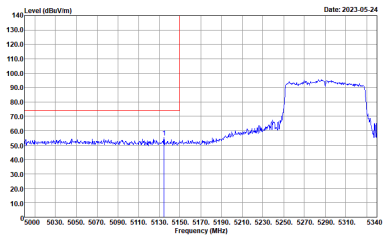
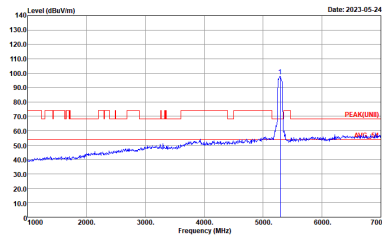
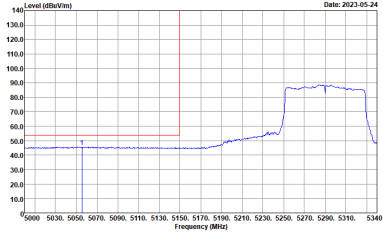
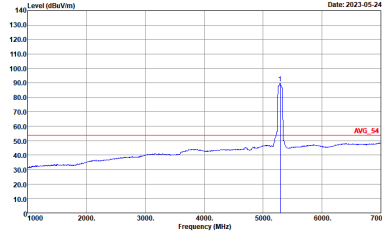
Band 2 - 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal Peak. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 5000 to 5340 MHz. A sharp peak is visible at approximately 5290 MHz, reaching a level of about 135 dBuV/m. A red horizontal line indicates the peak level at approximately 75 dBuV/m.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental Peak. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A sharp peak is visible at approximately 5290 MHz, reaching a level of about 100 dBuV/m. A red horizontal line indicates the peak level at approximately 75 dBuV/m.</p> <p>Site : 03CH13-HY Condition : PEAK(FUNDT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Horizontal Average. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 5000 to 5340 MHz. The signal shows a broad band between 5250 and 5350 MHz, with a peak level around 85 dBuV/m. A red horizontal line indicates the average level at approximately 55 dBuV/m.</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental Average. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. The signal shows a broad band between 5250 and 5350 MHz, with a peak level around 85 dBuV/m. A red horizontal line indicates the average level at approximately 55 dBuV/m.</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p>



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBm/100MHz) vs Frequency (MHz) plot for Vertical polarization. The plot shows a signal level around 50 dBm/100MHz with a sharp peak at approximately 5290 MHz reaching about 130 dBm/100MHz. The x-axis ranges from 5000 to 5340 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100MHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level around 50 dBm/100MHz with a sharp peak at approximately 5290 MHz reaching about 100 dBm/100MHz. The x-axis ranges from 1000 to 7000 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p> <p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBm/100MHz) vs Frequency (MHz) plot for Vertical polarization. The plot shows a signal level around 50 dBm/100MHz with a sharp peak at approximately 5290 MHz reaching about 85 dBm/100MHz. The x-axis ranges from 5000 to 5340 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p> <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBm/100MHz) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a signal level around 50 dBm/100MHz with a sharp peak at approximately 5290 MHz reaching about 85 dBm/100MHz. The x-axis ranges from 1000 to 7000 MHz, and the y-axis ranges from 10.0 to 140.0 dBm/100MHz.</p> <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



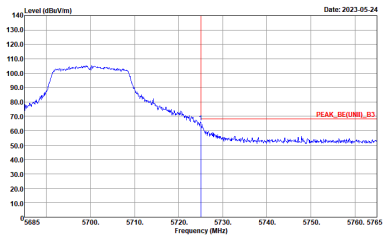
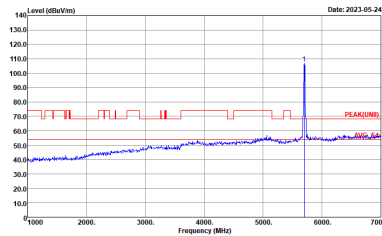
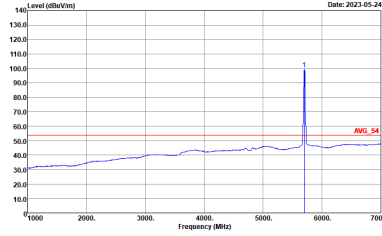
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



Band 3 - 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

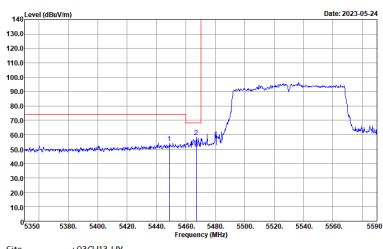
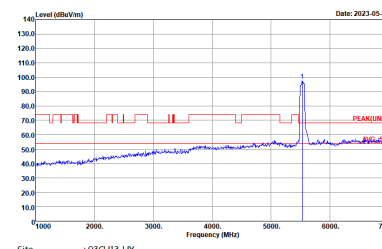
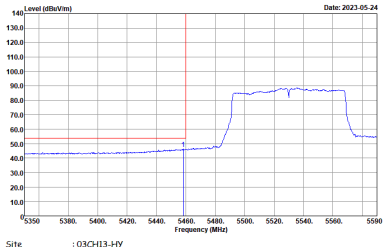
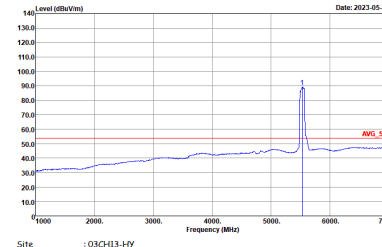
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE(UMI)_B3 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(LIN)_B3 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	Left blank	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	Left blank	 <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 09CH13-HV Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE(UNIT)_B3 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE(UNIT)_B3 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HV Condition : PEAK_BE(UNIT)_B3 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWF:Auto</p>	Left blank



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	98.10	-	-	10Hz
5GHz 802.11ac VHT20	98.58	-	-	10Hz
5GHz 802.11ac VHT80	93.60	-	-	3kHz

