



FCC RADIO TEST REPORT

FCC ID : 2AEUPBHASC0101
Equipment : Security Camera
Brand Name : ring
Model Name : 5CCEAB
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Aug. 23, 2024 and testing was performed from Aug. 30, 2024 to Sep. 25, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval 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
FR452127-01D	01	Initial issue of report	Nov. 01, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
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	7.63 dB under the limit at 43.58 MHz
3.5	15.207	AC Conducted Emission	Pass	19.88 dB under the limit at 0.15 MHz
3.6	15.203	Antenna Requirement	Pass	-

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/manufacture 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: Keven Cheng

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax.		
Antenna Type WLAN: Metal Antenna Bluetooth-LE: Metal Antenna		
Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	5.0

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

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, CO07-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.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	-	-	-	-
	153	5765	161	5805
	-	-	165	5825

2.2 Test Mode

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

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

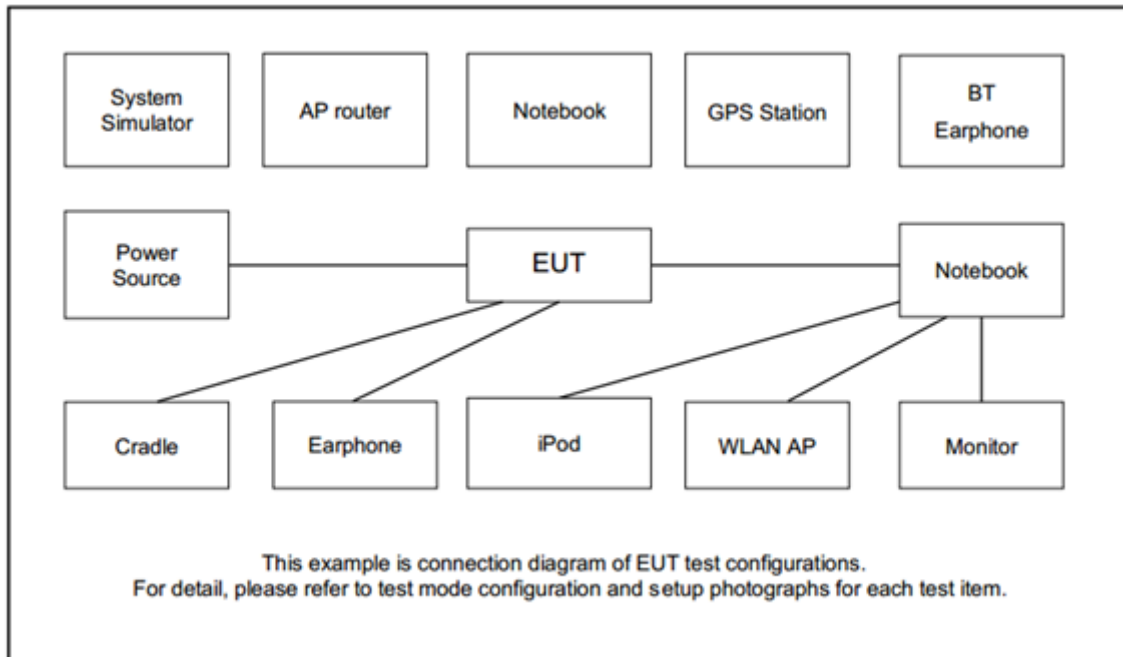
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Camera on + Battery 1 + AC Adapter
Remark: For Radiated Test Cases, the tests were performed with Battery 1.	

Ch. #		Band IV : 5725-5850 MHz		
		802.11a	802.11ac VHT20	802.11ax HE20
L	Low	149	149	149
M	Middle	157	157	-
H	High	165	165	-

Remark: 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.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Mobile Phone	Samsung	GT-N7000	A3LSMA730F	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term v.4.106” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

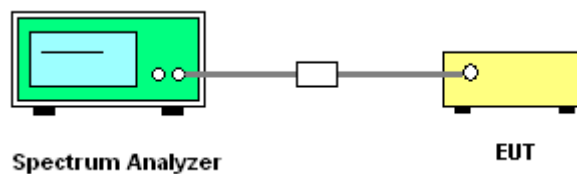
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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 for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

3.2.2 Measuring Instruments

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

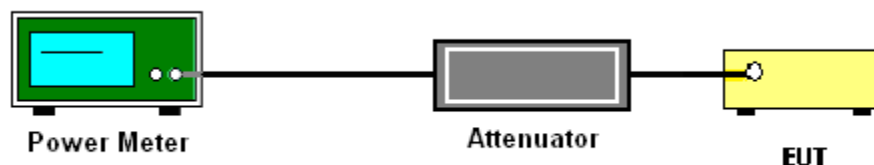
3.2.3 Test Procedures

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.

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

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

3.3.3 Test Procedures

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

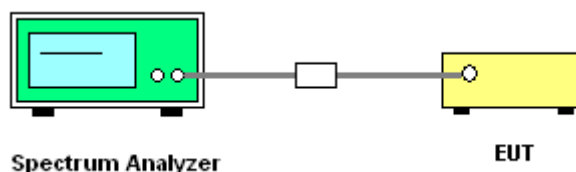
Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW ≥ 1 MHz.
 - Add $10 \log(500 \text{ kHz}/\text{RBW})$ to the measured result, whereas RBW ($< 500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.
1. The RF output of EUT is 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.

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 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (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.

3.4.2 Measuring Instruments

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

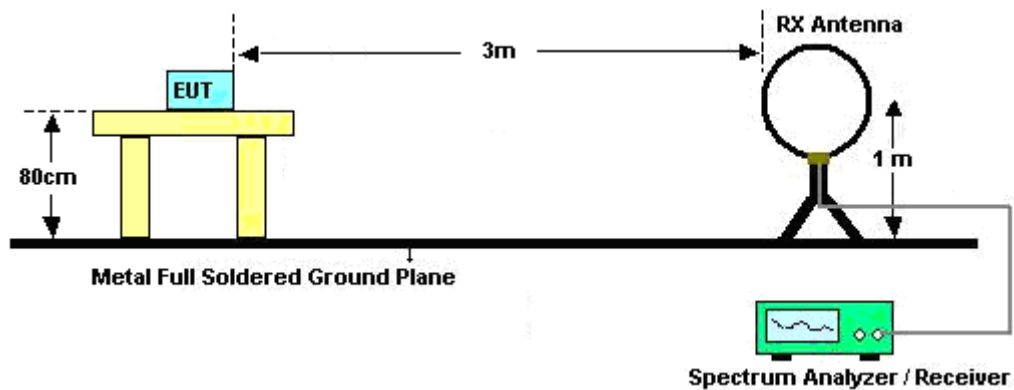
3.4.3 Test Procedures

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 $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

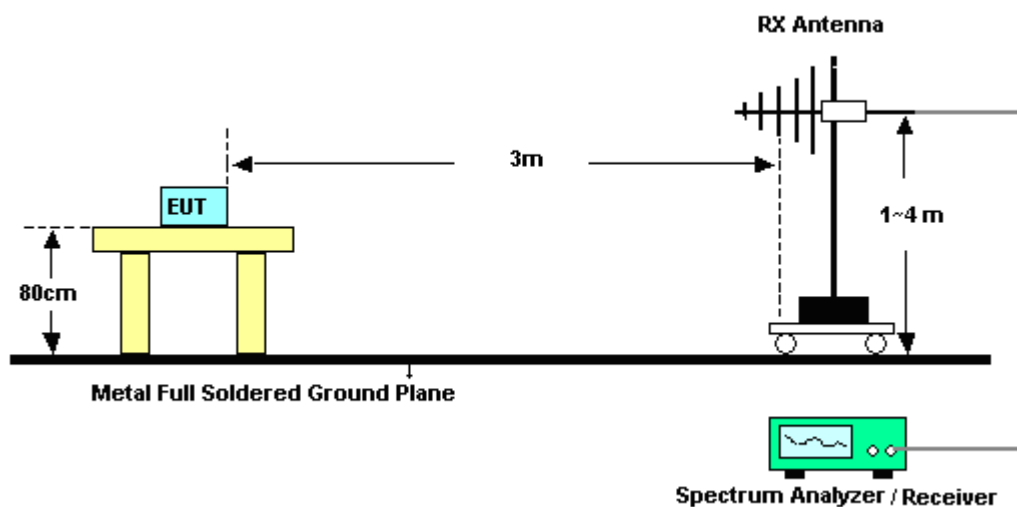
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit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

3.4.4 Test Setup

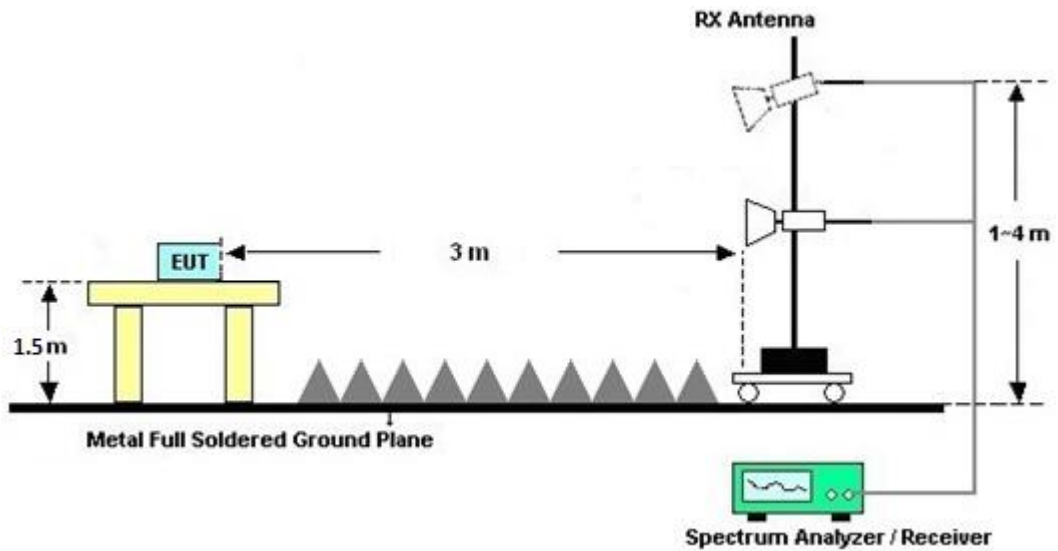
For radiated emissions below 30MHz



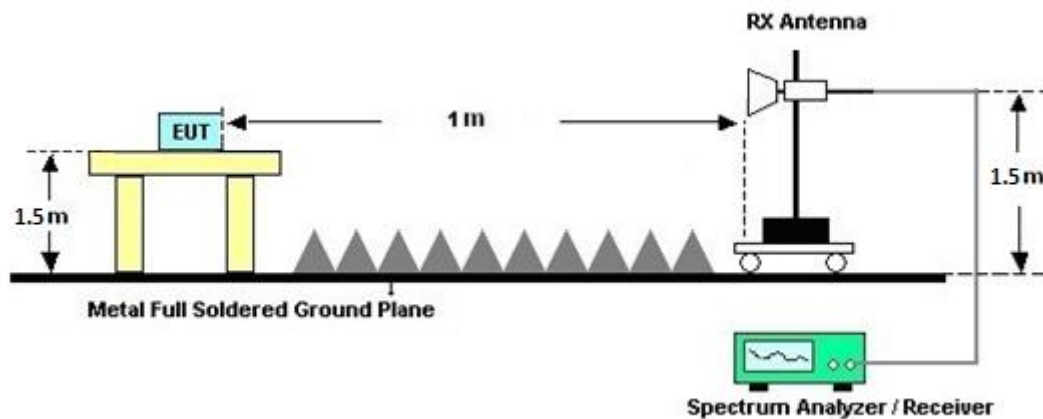
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

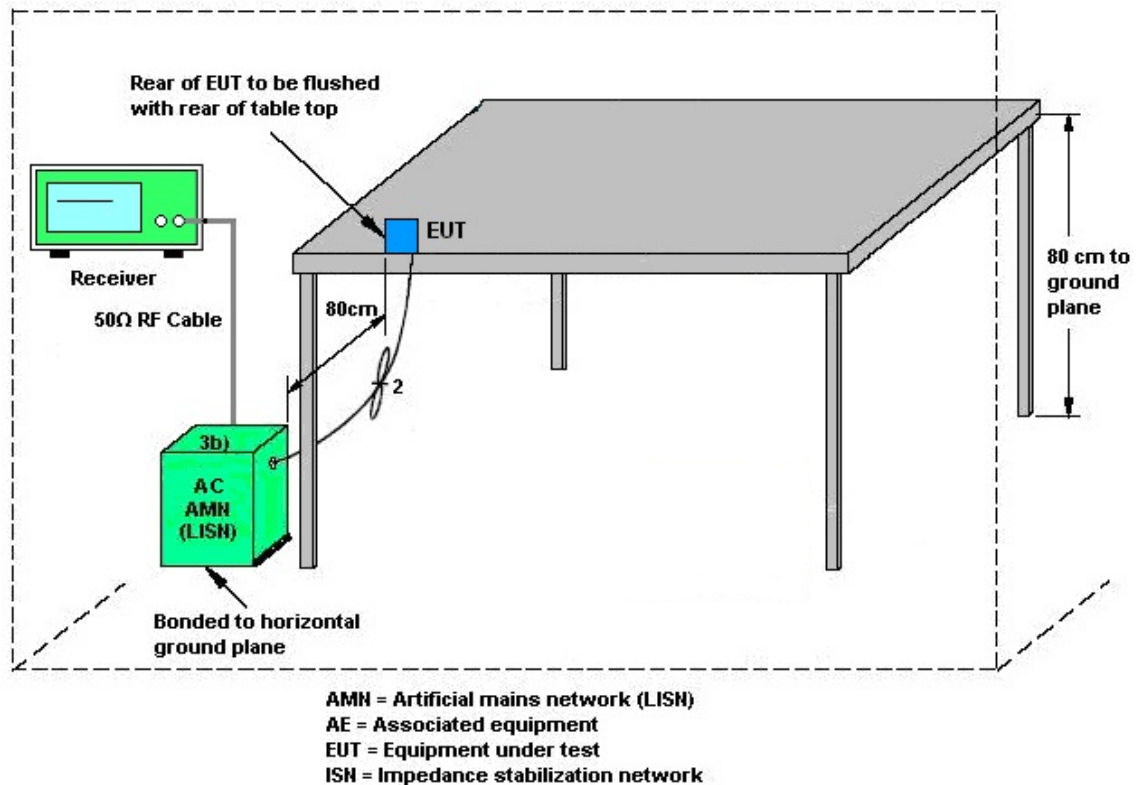
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Sep. 12, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Sep. 12, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	9561-FN00373	9kHz~200MHz	Oct. 20, 2023	Sep. 12, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Sep. 12, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Sep. 12, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Sep. 12, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Sep. 12, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Aug. 30, 2024~Sep. 18, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Aug. 30, 2024~Sep. 18, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Aug. 30, 2024~Sep. 18, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Aug. 30, 2024~Sep. 18, 2024	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWiFi_Final_version_240513	N/A	Conducted Other Test Item	N/A	Aug. 30, 2024~Sep. 18, 2024	N/A	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Sep. 09, 2024~Sep. 25, 2024	Feb. 22, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9k~30M	Mar. 06, 2024	Sep. 09, 2024~Sep. 25, 2024	Mar. 05, 2025	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 13, 2023	Sep. 09, 2024~Sep. 25, 2024	Dec. 12, 2024	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 12, 2024	Sep. 09, 2024~Sep. 25, 2024	Apr. 11, 2025	Radiation (03CH13-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Apr. 17, 2024	Sep. 09, 2024~Sep. 25, 2024	Apr. 16, 2025	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 15, 2024	Sep. 09, 2024~Sep. 25, 2024	Aug. 14, 2025	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 15, 2024	Sep. 09, 2024~Sep. 25, 2024	May 14, 2025	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz~18GHz	Jan. 09, 2024	Sep. 09, 2024~Sep. 25, 2024	Jan. 08, 2025	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Sep. 09, 2024~Sep. 25, 2024	May 26, 2025	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2023	Sep. 09, 2024~Sep. 25, 2024	Nov. 23, 2024	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Jan. 18, 2024	Sep. 09, 2024~Sep. 25, 2024	Jan. 17, 2025	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLK10-4630-5093-11000-40SS	SN1	4.5GHz Low Pass Filter	Sep. 11, 2023	Sep. 09, 2024	Sep. 10, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WLK10-4630-5093-11000-40SS	SN1	4.5GHz Low Pass Filter	Sep. 10, 2024	Sep. 10, 2024~Sep. 25, 2024	Sep. 09, 2025	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 08, 2024	Sep. 09, 2024~Sep. 25, 2024	Mar. 07, 2025	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN4	1.53GHz Low Pass Filter	Jun. 13, 2024	Sep. 09, 2024~Sep. 25, 2024	Jun. 12, 2025	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN2	3GHz High Pass Filter	Jul. 09, 2024	Sep. 09, 2024~Sep. 25, 2024	Jul. 08, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 07, 2024	Sep. 09, 2024~Sep. 25, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2, 804012/2	18GHz ~40GHz	Jan. 02, 2024	Sep. 09, 2024~Sep. 25, 2024	Jan. 01, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804616/2	30MHz~40GHz	Feb. 07, 2024	Sep. 09, 2024~Sep. 25, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Jul. 18, 2024	Sep. 09, 2024~Sep. 25, 2024	Jul. 17, 2025	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP215159	N/A	Sep. 13, 2023	Sep. 09, 2024~Sep. 10, 2024	Sep. 12, 2024	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303A	TP215159	N/A	Sep. 10, 2024	Sep. 10, 2024~Sep. 25, 2024	Sep. 09, 2025	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 09, 2024~Sep. 25, 2024	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 09, 2024~Sep. 25, 2024	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 09, 2024~Sep. 25, 2024	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Sep. 09, 2024~Sep. 25, 2024	N/A	Radiation (03CH13-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
--	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.20 dB
--	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.60 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.30 dB
--	---------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2024/08/30~2024/09/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	-	Ant 1	-	Ant 1	-		
11a	6Mbps	1	149	5745	16.78	-	20.23	-	15.12	-	0.5	Pass
11a	6Mbps	1	157	5785	16.78	-	20.18	-	15.42	-	0.5	Pass
11a	6Mbps	1	165	5825	16.78	-	20.42	-	14.82	-	0.5	Pass
VHT20	MCS0	1	149	5745	17.78	-	20.54	-	15.09	-	0.5	Pass
VHT20	MCS0	1	157	5785	17.78	-	22.13	-	15.10	-	0.5	Pass
VHT20	MCS0	1	165	5825	17.73	-	21.31	-	15.12	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	149	5745	19.30	-		30.00	-	5.00	-	Pass
11a	6Mbps	1	157	5785	19.30	-		30.00	-	5.00	-	Pass
11a	6Mbps	1	165	5825	19.40	-		30.00	-	5.00	-	Pass
HT20	MCS0	1	149	5745	19.00	-		30.00	-	5.00	-	Pass
HT20	MCS0	1	157	5785	19.00	-		30.00	-	5.00	-	Pass
HT20	MCS0	1	165	5825	19.20	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	149	5745	19.20	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	157	5785	19.20	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	165	5825	19.40	-		30.00	-	5.00	-	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	-	Ant 1	-	Ant 1	-	SUM	Ant 1	-	Ant 1	-	
11a	6Mbps	1	149	5745	0.13	-	2.22	-	5.01	-		30.00	-	5.00	-	Pass
11a	6Mbps	1	157	5785	0.13	-	2.22	-	4.88	-		30.00	-	5.00	-	Pass
11a	6Mbps	1	165	5825	0.13	-	2.22	-	5.17	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	149	5745	0.13	-	2.22	-	4.78	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	157	5785	0.13	-	2.22	-	4.46	-		30.00	-	5.00	-	Pass
VHT20	MCS0	1	165	5825	0.13	-	2.22	-	4.84	-		30.00	-	5.00	-	Pass

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	-	Ant 1	-	Ant 1	-		
HE20	MCS0	1	149	5745	Full	18.88	-	21.10	-	18.17	-	0.5	Pass
HE20	MCS0	1	157	5785	Full	18.88	-	24.76	-	18.26	-	0.5	Pass
HE20	MCS0	1	165	5825	Full	18.88	-	21.06	-	18.51	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

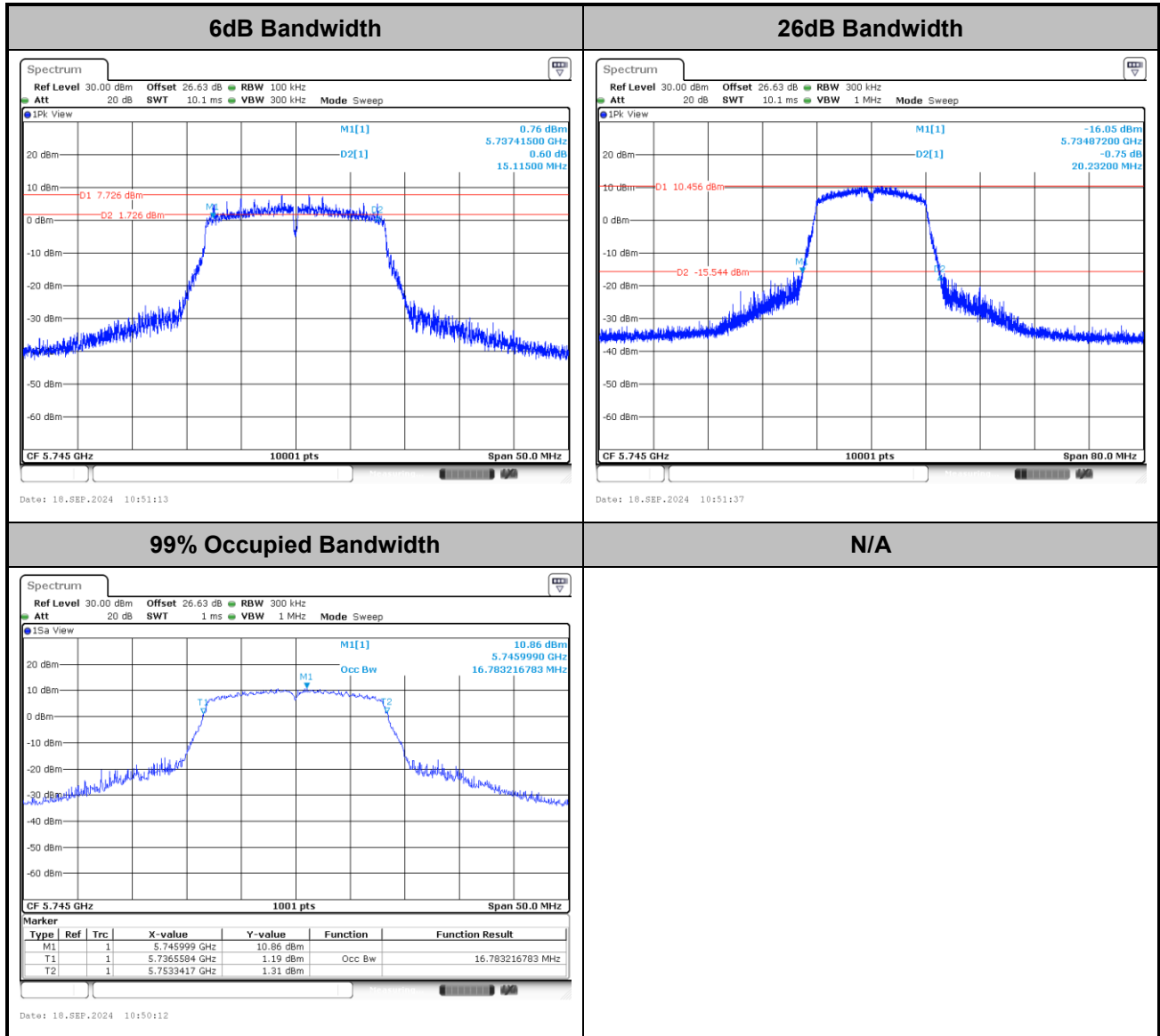
U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	-	SUM	Ant 1	-	Ant 1	-	
HE20	MCS0	1	149	5745	Full	19.10	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	26/0	10.40	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	52/37	13.10	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	106/53	16.70	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	Full	19.10	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	26/4	10.60	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	52/38	13.70	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	106/53	16.50	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	Full	19.30	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	26/8	11.10	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	52/40	13.90	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	106/54	17.00	-		30.00	-	5.00	-	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna																	
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	-	Ant 1	-	Ant 1	-	SUM	Ant 1	-	Ant 1	-	
HE20	MCS0	1	149	5745	Full	0.15	-	2.22	-	4.46	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	26/0	0.06	-	2.22	-	4.12	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	52/37	0.06	-	2.22	-	4.25	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	149	5745	106/53	0.05	-	2.22	-	4.13	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	Full	0.15	-	2.22	-	3.94	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	26/4	0.06	-	2.22	-	3.61	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	52/38	0.06	-	2.22	-	3.72	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	157	5785	106/53	0.05	-	2.22	-	3.42	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	Full	0.15	-	2.22	-	4.65	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	26/8	0.06	-	2.22	-	4.55	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	52/40	0.06	-	2.22	-	4.34	-		30.00	-	5.00	-	Pass
HE20	MCS0	1	165	5825	106/54	0.05	-	2.22	-	4.47	-		30.00	-	5.00	-	Pass

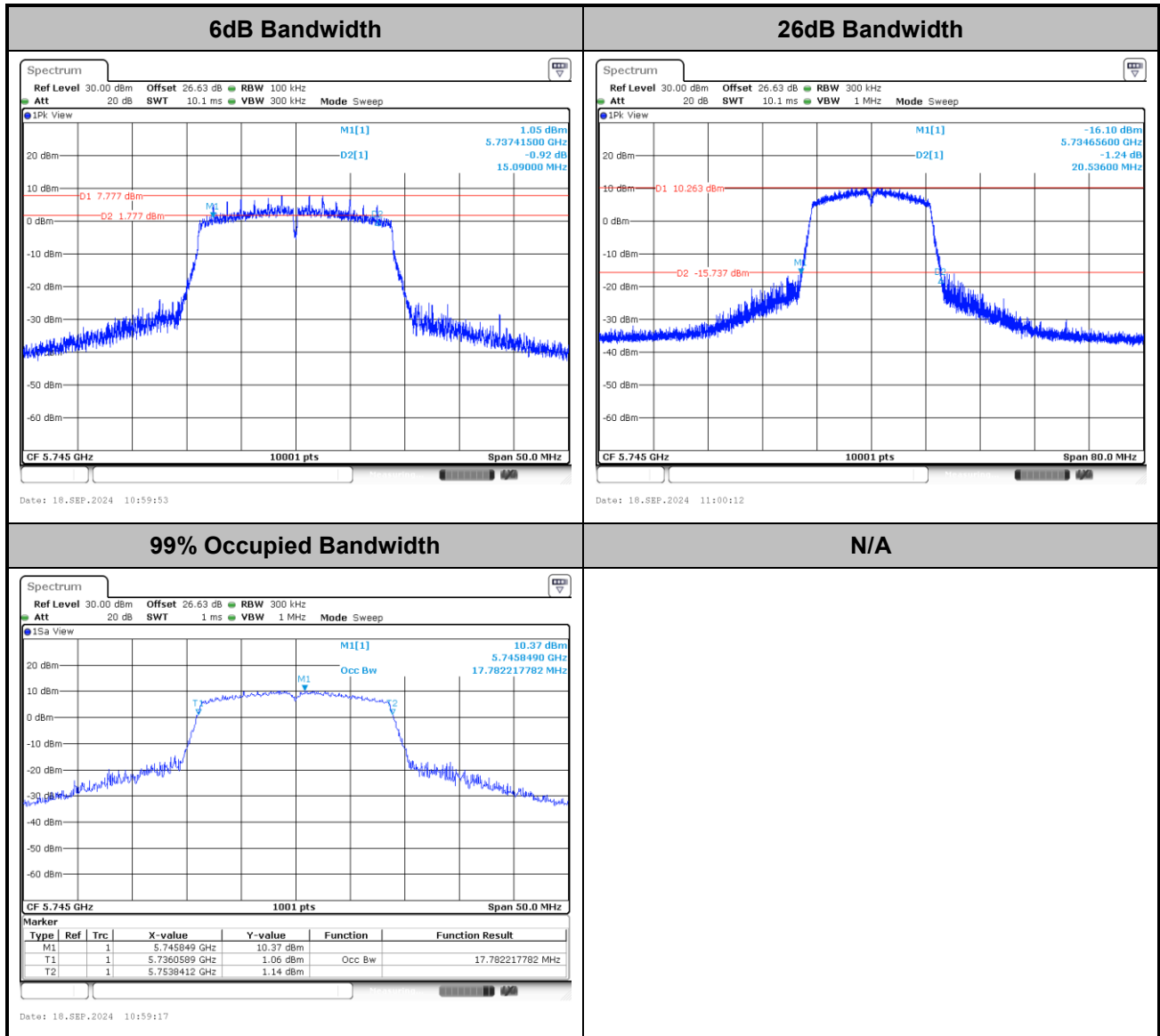
**Test Result of 6dB and 26dB and 99% Occupied Bandwidth**

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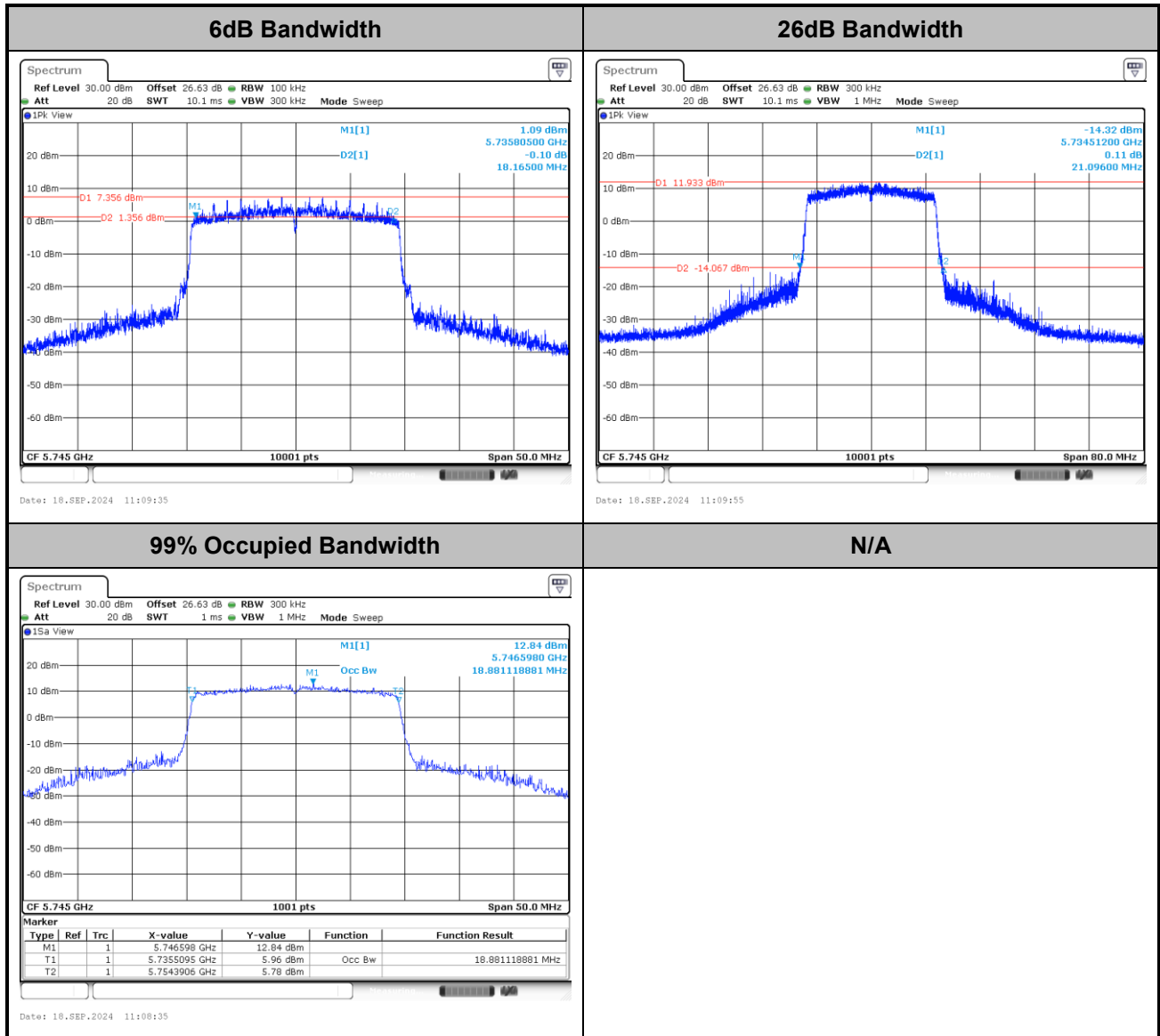


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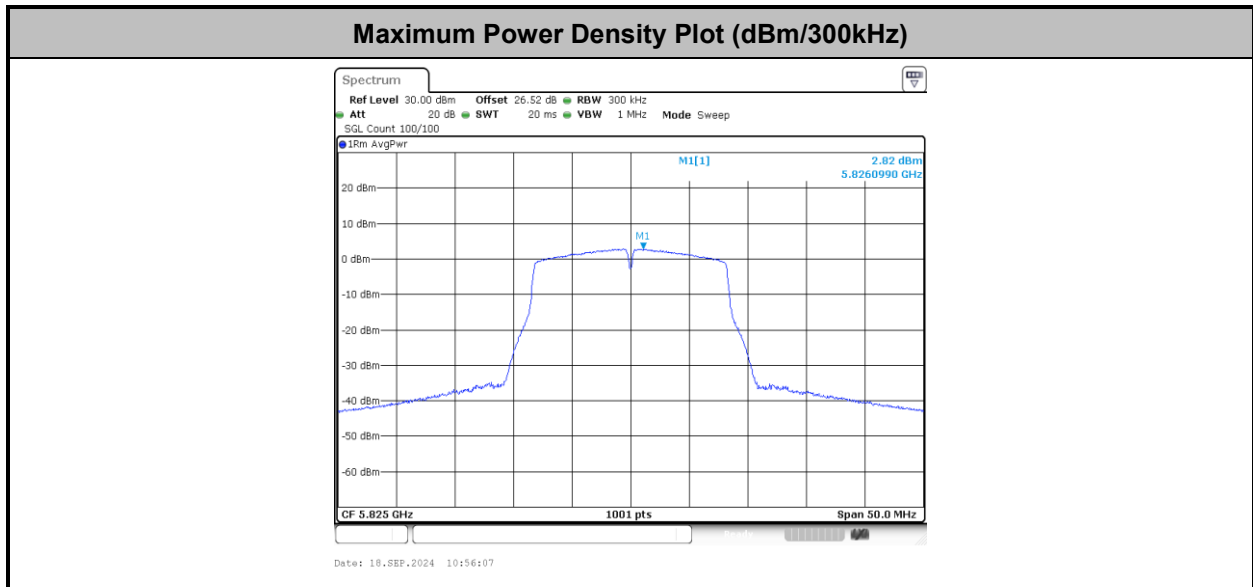
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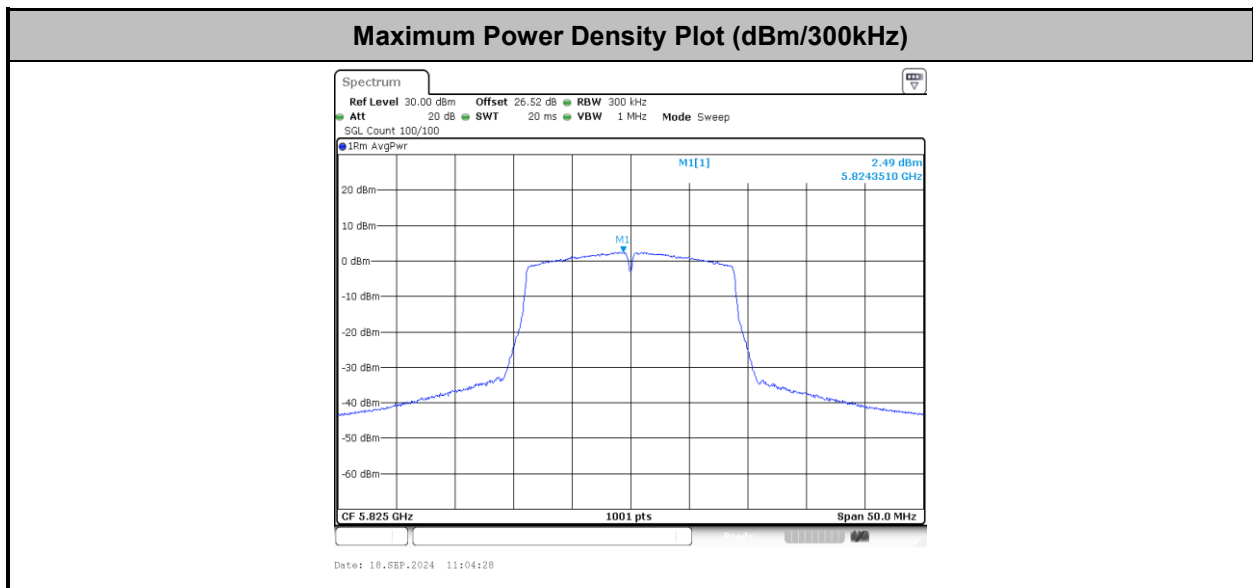


Test Result of Power Spectral Density

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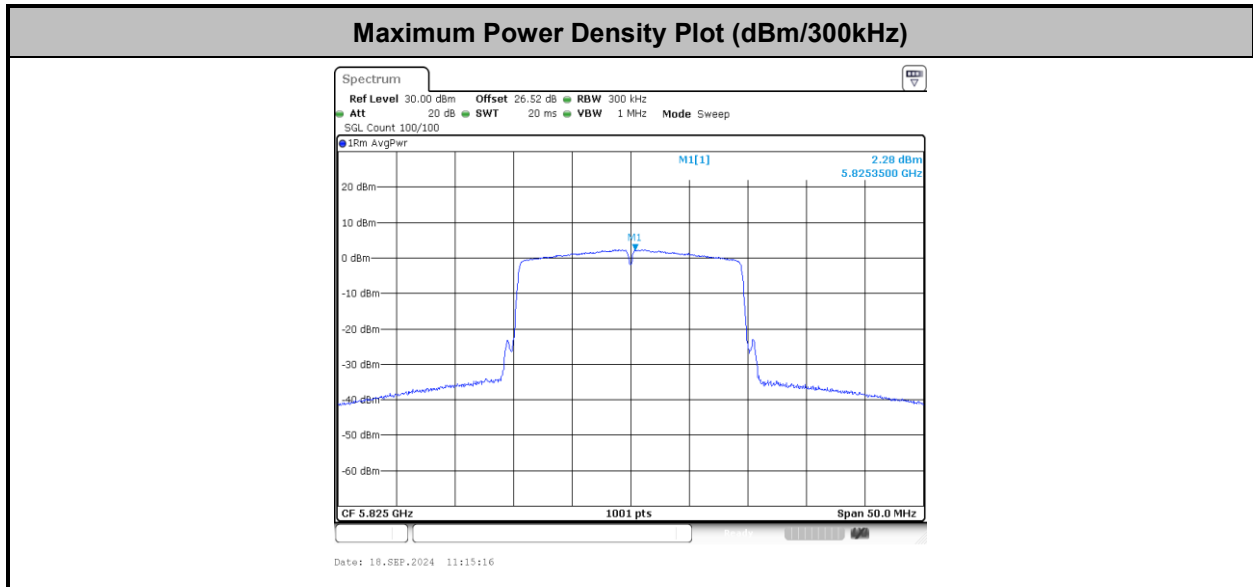


<802.11ac VHT20>





<802.11ax HE20>





Appendix B. AC Conducted Emission Test Results

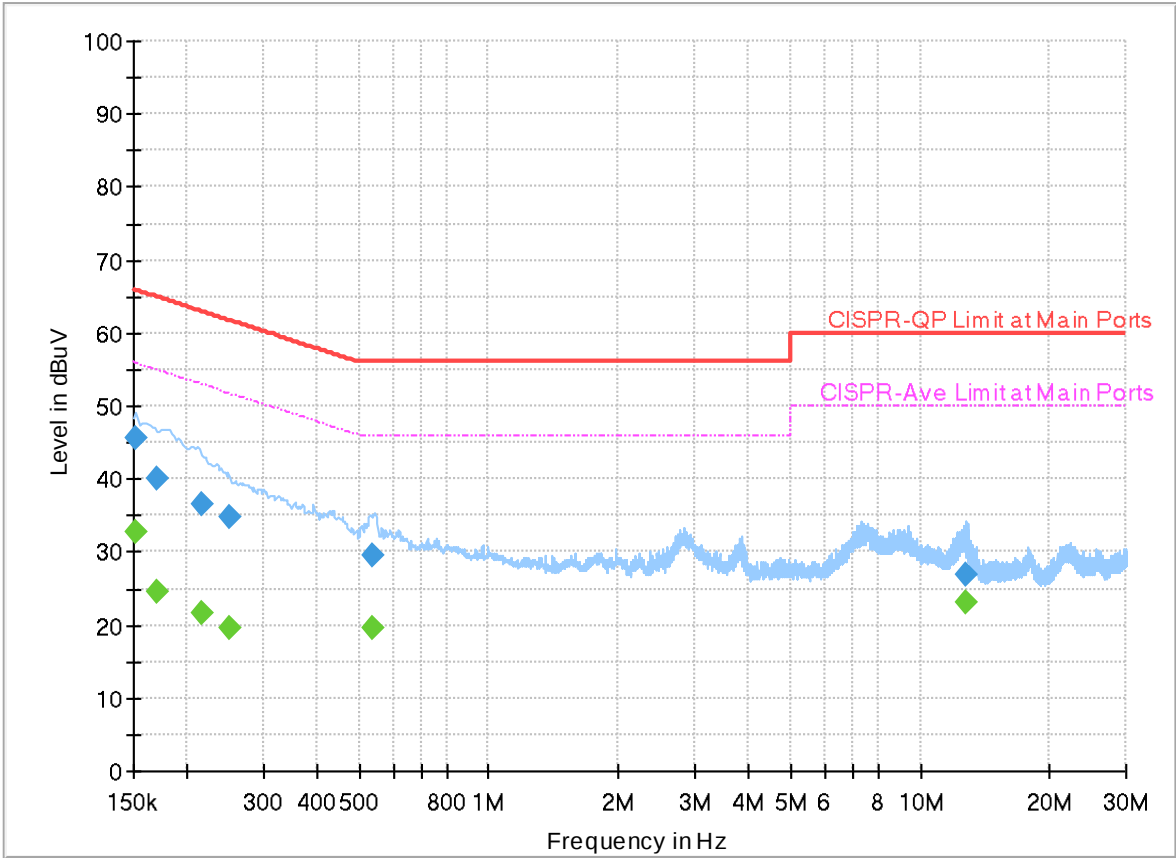
Test Engineer :	Louis Chung	Temperature :	23.4~26.1°C
		Relative Humidity :	43.3~52.7%

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

452127-01
Mode 1
120Vac/60Hz
Line

Full Spectrum



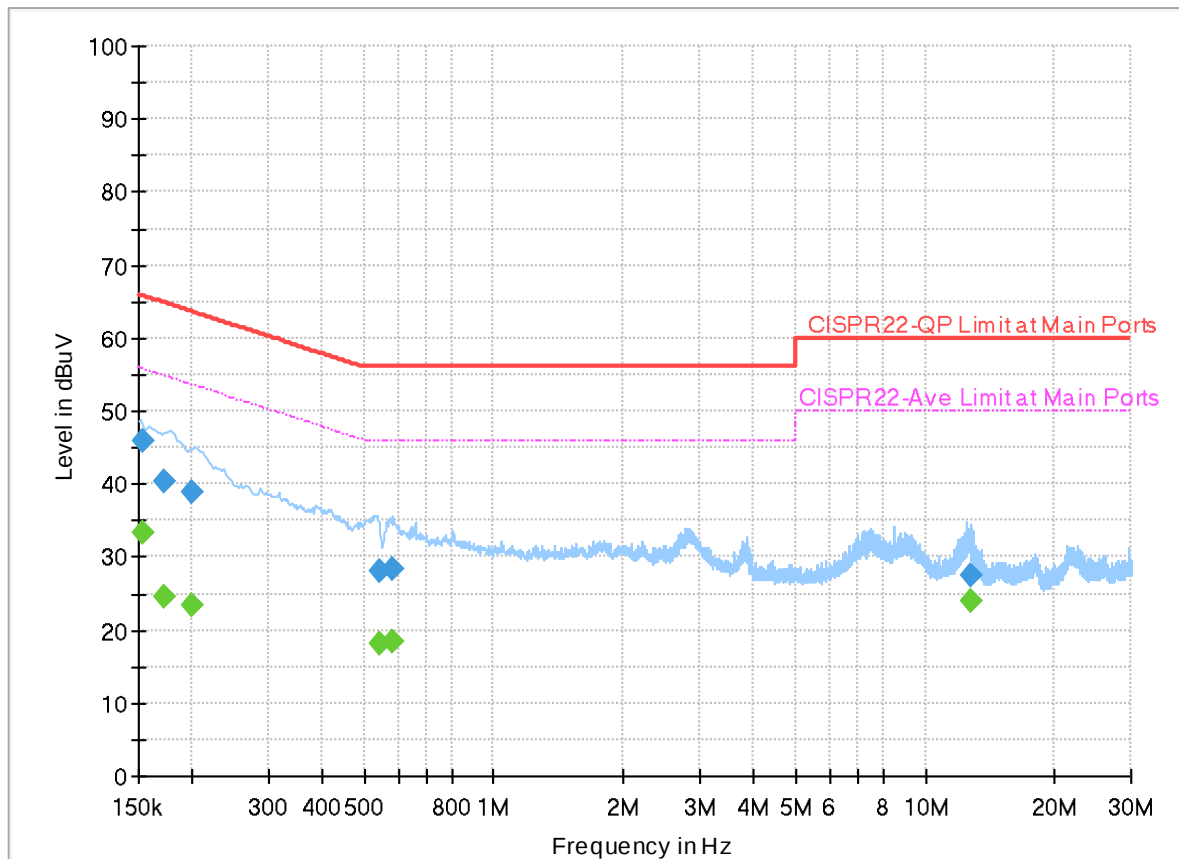
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.151688	45.68	---	65.91	20.23	L1	FLO	19.9
0.151688	---	32.68	55.91	23.23	L1	FLO	19.9
0.170700	40.14	---	64.93	24.79	L1	FLO	19.9
0.170700	---	24.57	54.93	30.36	L1	FLO	19.9
0.215250	36.66	---	63.00	26.34	L1	FLO	19.9
0.215250	---	21.52	53.00	31.48	L1	FLO	19.9
0.251790	34.82	---	61.70	26.88	L1	FLO	19.9
0.251790	---	19.63	51.70	32.07	L1	FLO	19.9
0.539250	29.64	---	56.00	26.36	L1	FLO	19.9
0.539250	---	19.71	46.00	26.29	L1	FLO	19.9
12.785280	26.86	---	60.00	33.14	L1	FLO	20.1
12.785280	---	23.11	50.00	26.89	L1	FLO	20.1

EUT Information

Report NO : 452127-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.152835	45.96	---	65.84	19.88	N	FLO	19.9
0.152835	---	33.23	55.84	22.61	N	FLO	19.9
0.172500	40.26	---	64.84	24.58	N	FLO	19.9
0.172500	---	24.50	54.84	30.34	N	FLO	19.9
0.199500	38.81	---	63.63	24.82	N	FLO	19.9
0.199500	---	23.48	53.63	30.15	N	FLO	19.9
0.541500	28.14	---	56.00	27.86	N	FLO	19.9
0.541500	---	18.23	46.00	27.77	N	FLO	19.9
0.579750	28.33	---	56.00	27.67	N	FLO	19.9
0.579750	---	18.52	46.00	27.48	N	FLO	19.9
12.788520	27.51	---	60.00	32.49	N	FLO	20.1
12.788520	---	23.97	50.00	26.03	N	FLO	20.1



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jacky Hung and Mancy Chou	Temperature :	20~26 °C
		Relative Humidity :	40~65 %

Note symbol

-L	Low channel location
-R	High channel location



C1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 28	U-NII-3	5.725-5.85	1	802.11a	149	5745	6Mbps	-	-
Mode 29	U-NII-3	5.725-5.85	1	802.11a	157	5785	6Mbps	-	-
Mode 30	U-NII-3	5.725-5.85	1	802.11a	165	5825	6Mbps	-	-
Mode 31	U-NII-3	5.725-5.85	1	802.11ac VHT20	149	5745	MCS0	-	-
Mode 32	U-NII-3	5.725-5.85	1	802.11ac VHT20	157	5785	MCS0	-	-
Mode 33	U-NII-3	5.725-5.85	1	802.11ac VHT20	165	5825	MCS0	-	-
Mode 34	U-NII-3	5.725-5.85	1	802.11ax HE20	149	5745	MCS0	Full RU	-
Mode 35	U-NII-3	5.725-5.85	1	802.11ax HE20	149	5745	MCS0	Partial_106/53RU	-
Mode 36	U-NII-3	5.725-5.85	1	802.11ac VHT20	157	5785	MCS0	-	LF



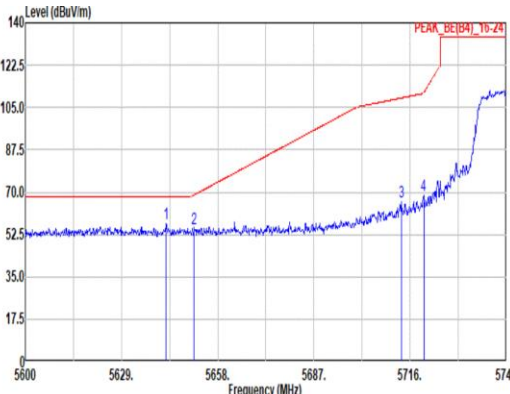
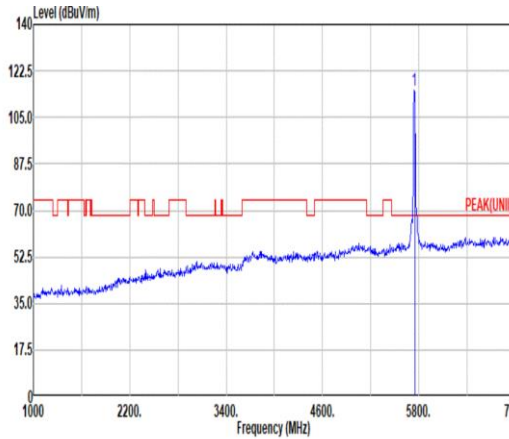
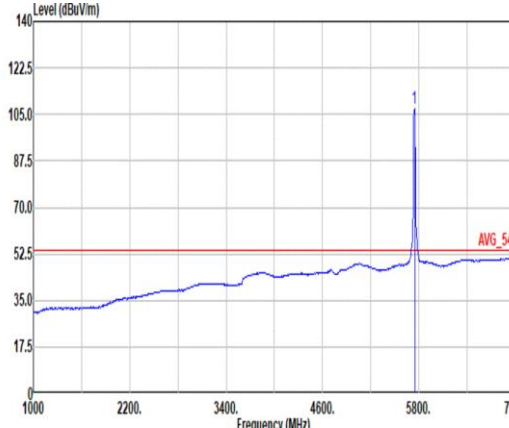
C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
28	802.11a	149	5642.49	56.98	68.20	-11.22	H	Peak	Pass	-	Band Edge
	802.11a	149	17235.00	56.19	68.20	-12.01	H	Peak	Pass	-	Harmonic
29	802.11a	157	5938.95	57.33	68.20	-10.87	H	Peak	Pass	-	Band Edge
	802.11a	157	17355.00	58.39	68.20	-9.81	H	Peak	Pass	-	Harmonic
30	802.11a	165	5927.38	57.40	68.20	-10.80	H	Peak	Pass	-	Band Edge
	802.11a	165	17475.00	52.66	68.20	-15.54	H	Peak	Pass	-	Harmonic
31	802.11ac VHT20	149	5644.08	57.57	68.20	-10.63	V	Peak	Pass	-	Band Edge
	802.11ac VHT20	149	17235.00	58.15	68.20	-10.05	H	Peak	Pass	-	Harmonic
32	802.11ac VHT20	157	5925.25	57.01	68.20	-11.19	V	Peak	Pass	-	Band Edge
	802.11ac VHT20	157	17355.00	59.79	68.20	-8.41	H	Peak	Pass	-	Harmonic
33	802.11ac VHT20	165	5949.88	57.42	68.20	-10.78	H	Peak	Pass	-	Band Edge

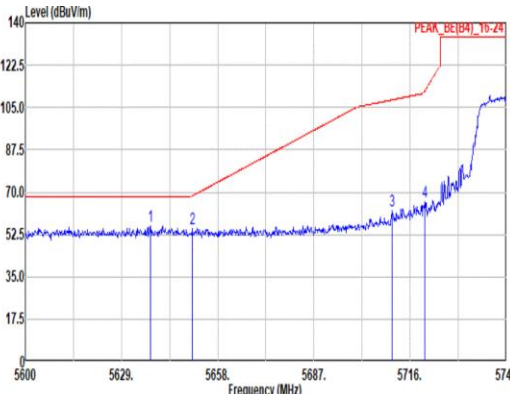
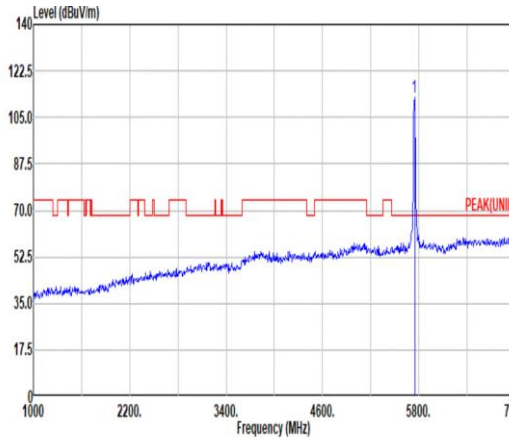
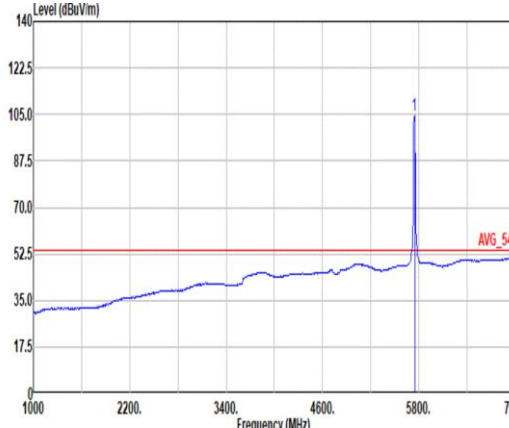


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
33	802.11ac VHT20	165	17475.00	57.94	68.20	-10.26	H	Peak	Pass	-	Harmonic
34	802.11ax HE20	149	5632.63	57.03	68.20	-11.17	V	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	149	17235.00	57.20	68.20	-11.00	V	Peak	Pass	Full RU	Harmonic
35	802.11ax HE20	149	5639.01	52.35	68.20	-15.85	H	Peak	Pass	Partial_106/53RU	Band Edge
	802.11ax HE20	149	-	-	-	-	-	-	-	Partial_106/53RU	Harmonic
36	LF	157	43.58	32.37	40.00	-7.63	V	Peak	Pass	-	LF

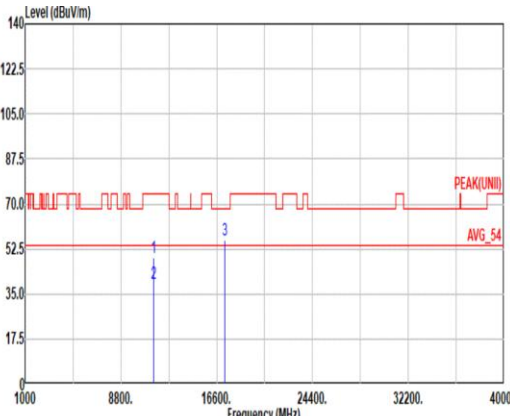
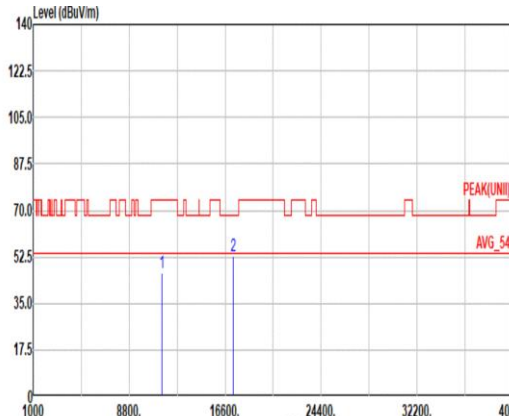


Mode	28																																																																																																																																
	Band Edge																																																																																																																																
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz																																																																																																																																
ANT	1																																																																																																																																
Pol.	Horizontal	Fundamental																																																																																																																															
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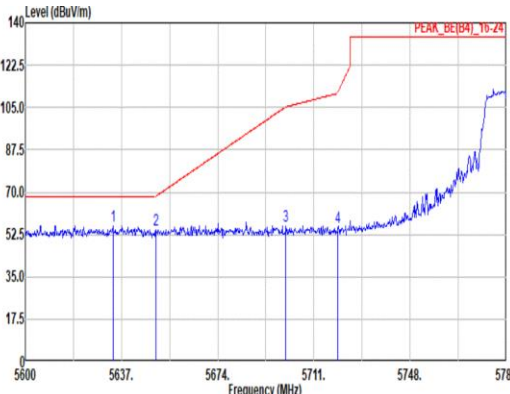
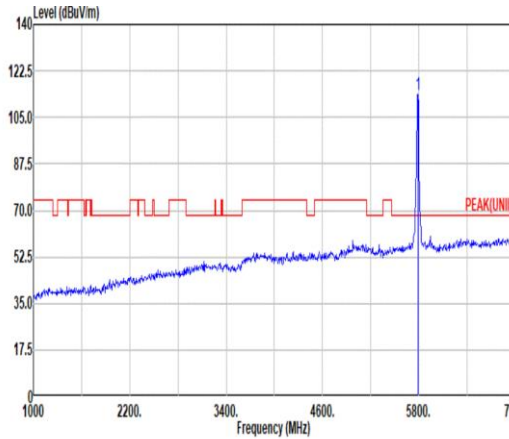
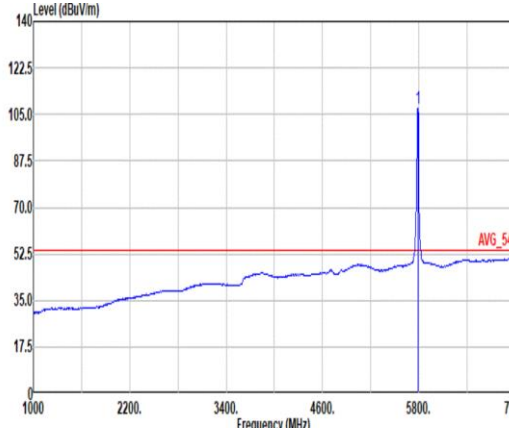


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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																						
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Avg	Blank	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91280_1326 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>5785.00</td><td>107.32</td><td>-----</td><td>-----</td><td>99.55</td><td>34.13</td><td>10.53</td><td>36.89</td><td>0.00</td><td>341</td><td>0</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor	Factor	cm	deg		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	5785.00	107.32	-----	-----	99.55	34.13	10.53	36.89	0.00	341	0	AVERAGE																																																																																		
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29

Mode

Band Edge - R

U-NII-3_5.725-5.85_802.11a_CH157_5785MHz

ANT

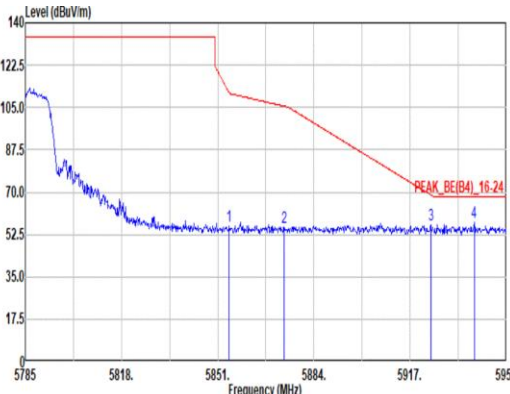
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Horizontal

Fundamental

Peak

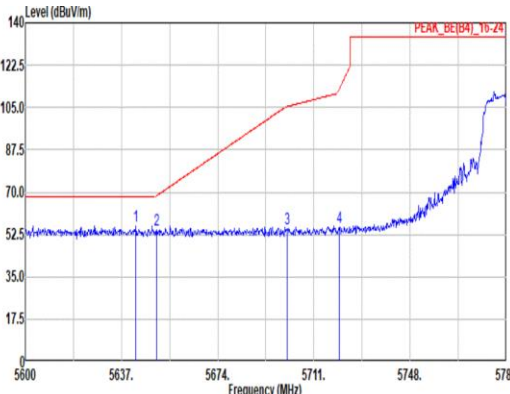
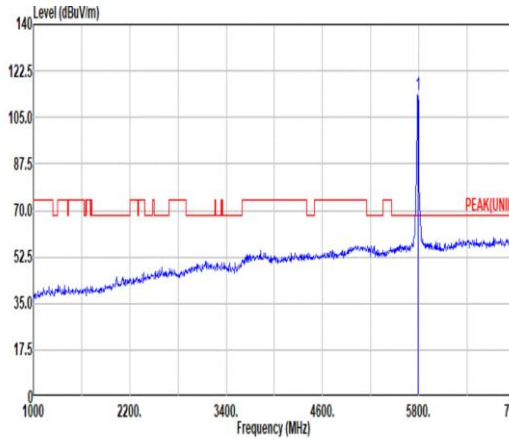
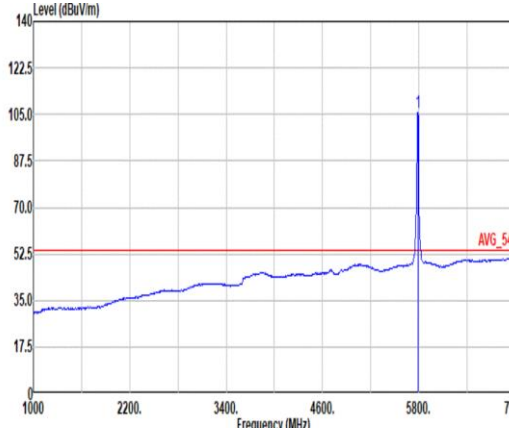


Site : 03CH13-HY
Condition: PEAK_BE(B4)_16-24 3m HORN_91280_1326 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	5854.96	55.85	110.89	-55.04	47.88	34.32	10.56	36.91	0.00	341	0 PEAK
2	5873.77	55.72	105.54	-49.82	47.66	34.40	10.57	36.91	0.00	341	0 PEAK
3	5924.10	56.75	68.87	-12.12	48.58	34.50	10.59	36.92	0.00	341	0 PEAK
4	5938.95	57.33	68.20	-10.87	49.16	34.50	10.60	36.93	0.00	341	0 PEAK

Blank



Mode	29																																																																																																																																										
	Band Edge - L																																																																																																																																										
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz																																																																																																																																										
ANT	1																																																																																																																																										
Pol.	Vertical						Fundamental																																																																																																																																				
Peak	 Site : 03CH13-HY Condition: PEAK_BE(B4)_16-24 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5642.55</td><td>56.03</td><td>68.20</td><td>-12.17</td><td>49.34</td><td>33.17</td><td>10.37</td><td>36.05</td><td>0.00</td><td>200</td><td>20</td><td>PEAK</td></tr><tr><td>2</td><td>5650.51</td><td>54.20</td><td>68.58</td><td>-14.38</td><td>47.48</td><td>33.20</td><td>10.38</td><td>36.06</td><td>0.00</td><td>200</td><td>20</td><td>PEAK</td></tr><tr><td>3</td><td>5700.64</td><td>54.87</td><td>105.38</td><td>-50.51</td><td>47.71</td><td>33.60</td><td>10.43</td><td>36.87</td><td>0.00</td><td>200</td><td>20</td><td>PEAK</td></tr><tr><td>4</td><td>5720.62</td><td>55.54</td><td>112.21</td><td>-56.67</td><td>48.24</td><td>33.72</td><td>10.45</td><td>36.87</td><td>0.00</td><td>200</td><td>20</td><td>PEAK</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5642.55	56.03	68.20	-12.17	49.34	33.17	10.37	36.05	0.00	200	20	PEAK	2	5650.51	54.20	68.58	-14.38	47.48	33.20	10.38	36.06	0.00	200	20	PEAK	3	5700.64	54.87	105.38	-50.51	47.71	33.60	10.43	36.87	0.00	200	20	PEAK	4	5720.62	55.54	112.21	-56.67	48.24	33.72	10.45	36.87	0.00	200	20	PEAK	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5785.00</td><td>113.36</td><td>-----</td><td>-----</td><td>105.64</td><td>34.09</td><td>10.52</td><td>36.09</td><td>0.00</td><td>200</td><td>20</td><td>PEAK</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5785.00	113.36	-----	-----	105.64	34.09	10.52	36.09	0.00	200	20	PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																		
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2	5650.51	54.20	68.58	-14.38	47.48	33.20	10.38	36.06	0.00	200	20	PEAK																																																																																																																															
3	5700.64	54.87	105.38	-50.51	47.71	33.60	10.43	36.87	0.00	200	20	PEAK																																																																																																																															
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																	
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1	5785.00	105.77	-----	-----	98.00	34.13	10.53	36.09	0.00	200	20	AVERAGE																																																																																																																															



29

Mode

Band Edge - R

U-NII-3_5.725-5.85_802.11a_CH157_5785MHz

ANT

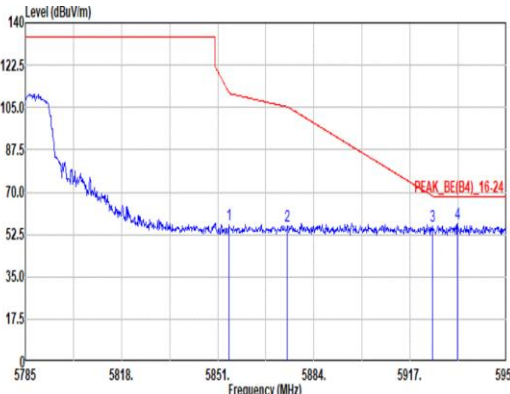
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Pol.

Vertical

Fundamental

Peak

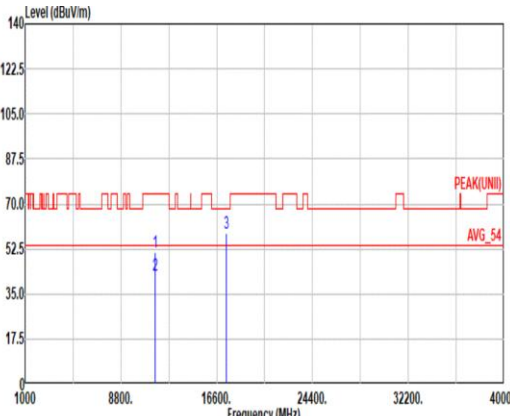
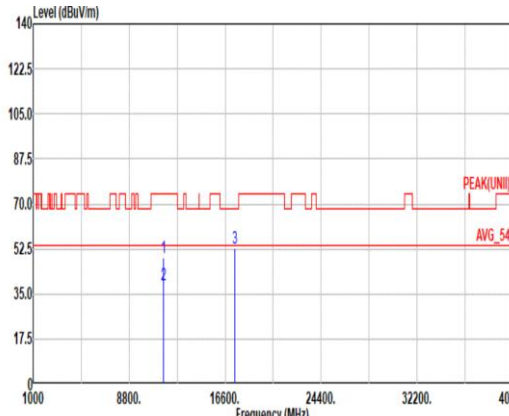


Site : 03CH13-HY
Condition: PEAK_BE(B4)_16-24 3m HORN_91280_1326 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

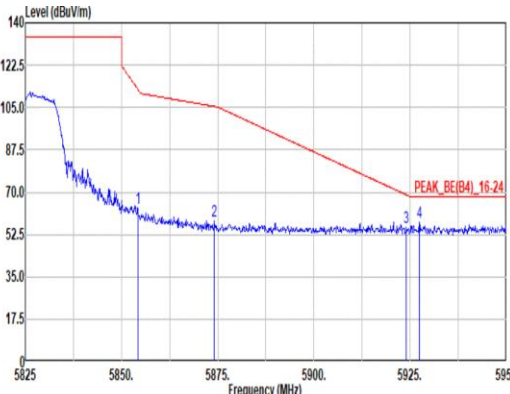
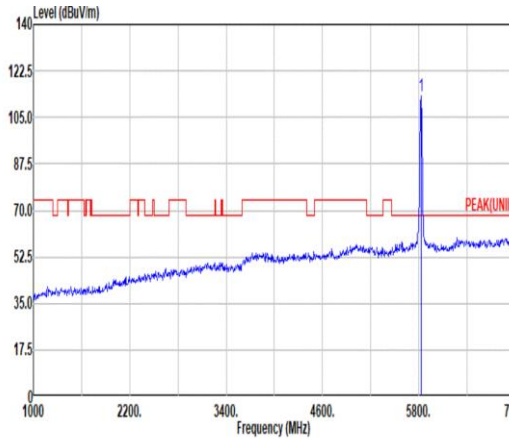
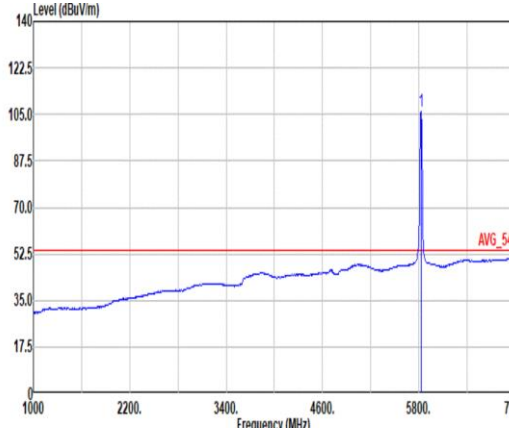
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	5854.00	56.39	111.27	-54.88	48.42	34.32	10.56	36.91	0.00	200	20	PEAK
2	5874.93	56.05	105.22	-49.17	47.99	34.40	10.57	36.91	0.00	200	20	PEAK
3	5924.59	55.85	68.50	-12.65	47.68	34.50	10.59	36.92	0.00	200	20	PEAK
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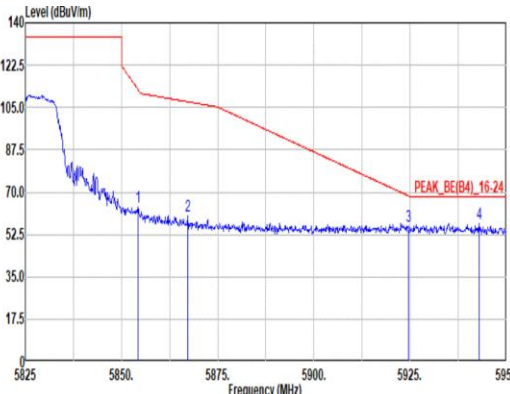
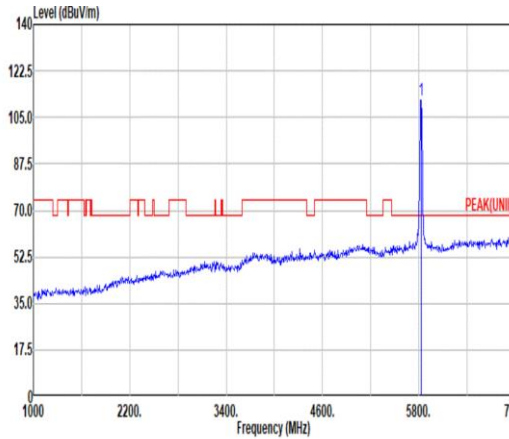
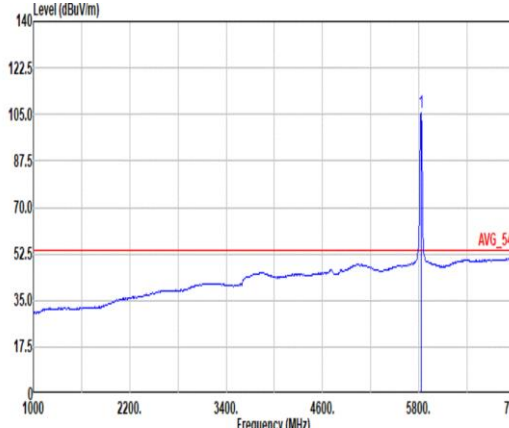


Mode	29																																																																													
	Harmonic																																																																													
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ANT	1																																																																													
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Peak Avg																																																																														
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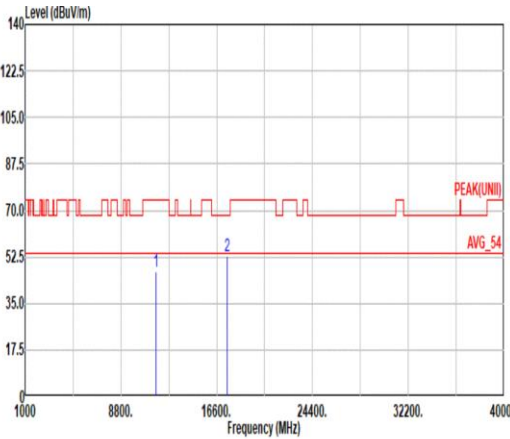
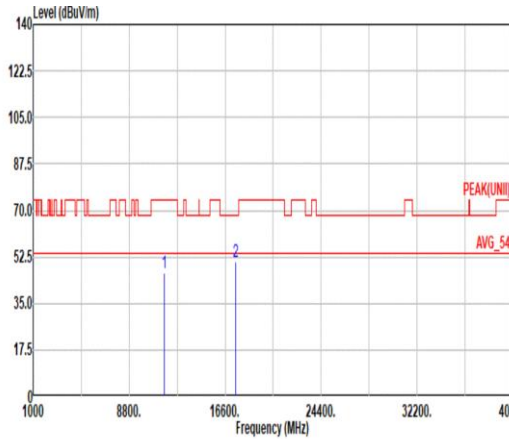


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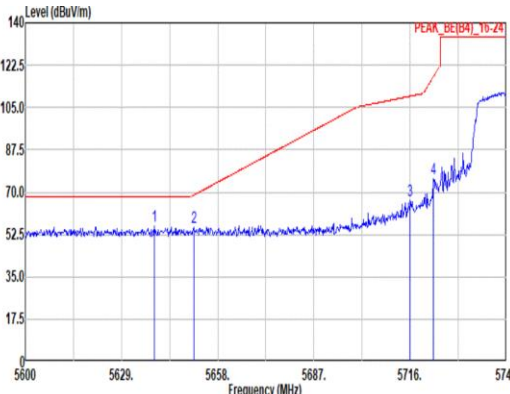
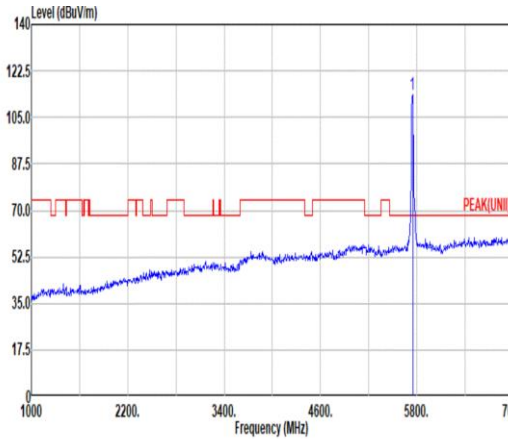
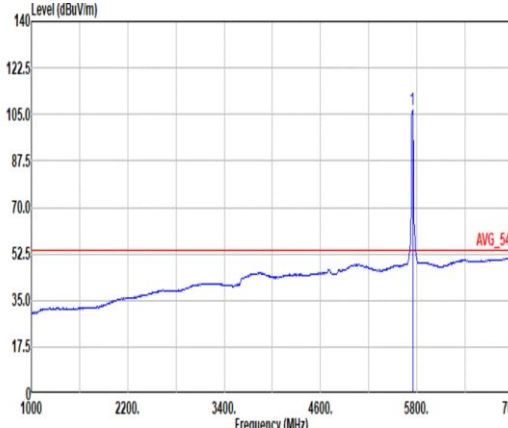


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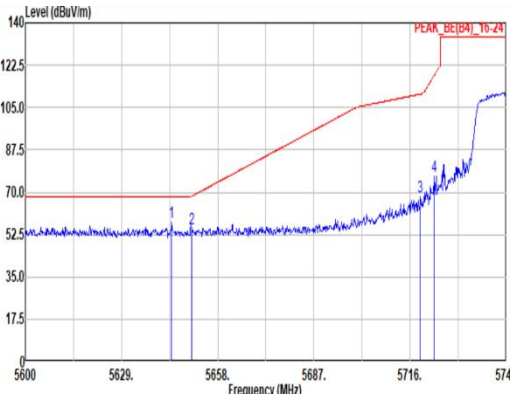
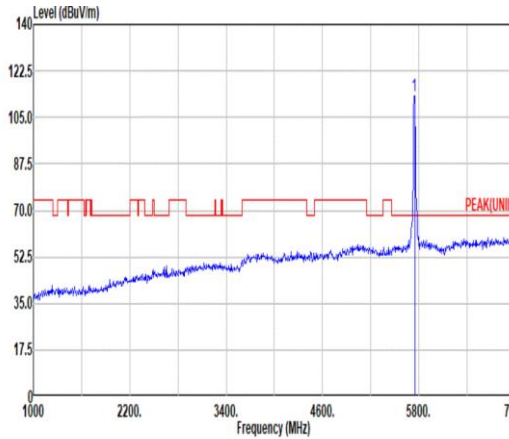
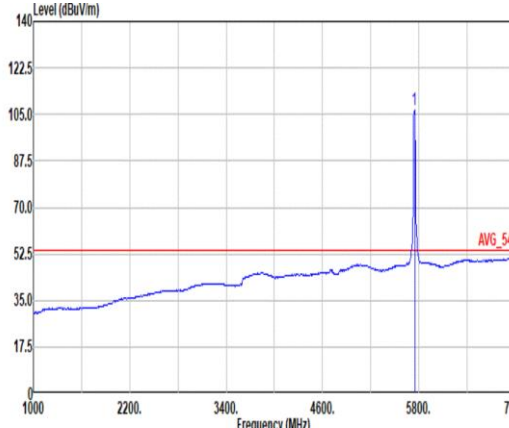


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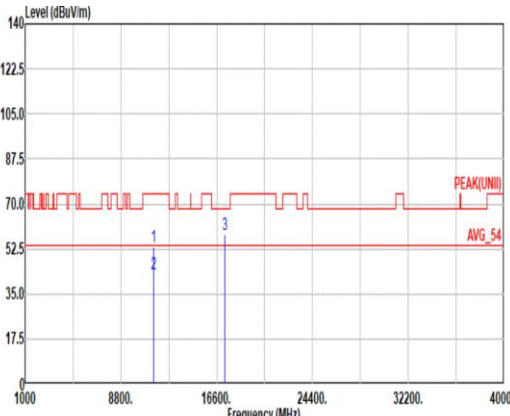
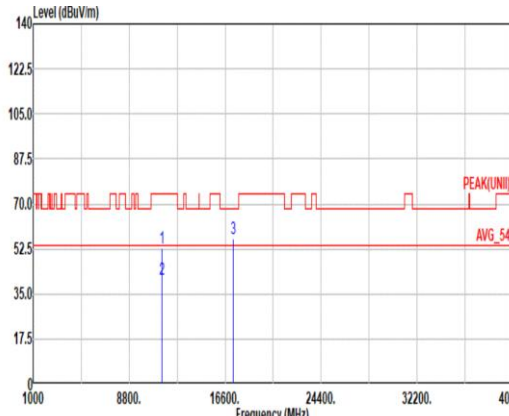


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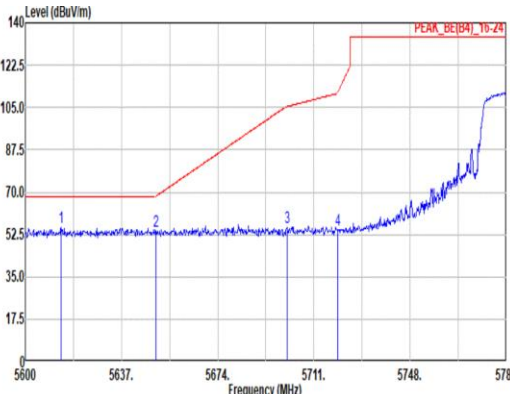
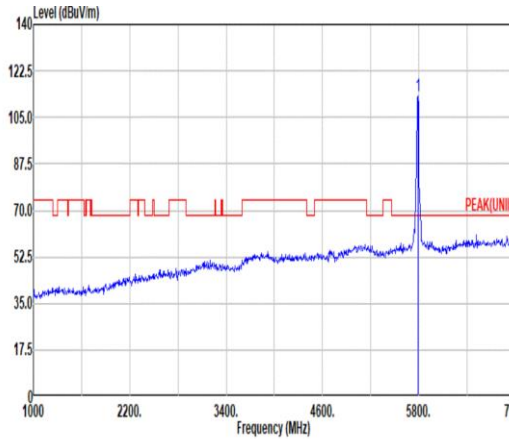
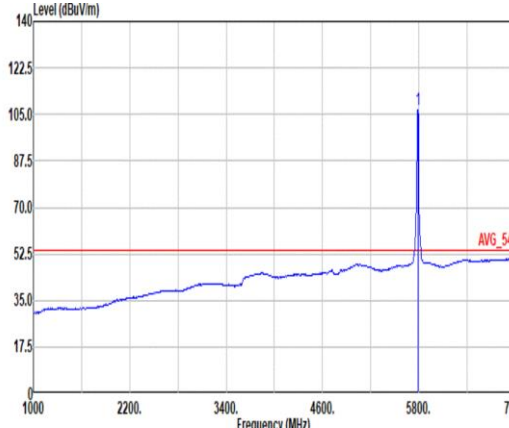


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Mode

Band Edge - R

U-NII-3_5.725-5.85_802.11ac VHT20_CH157_5785MHz

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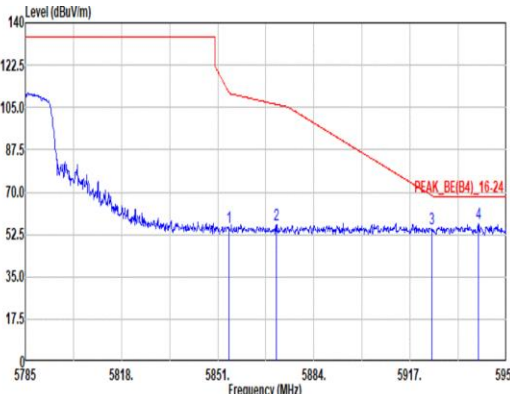
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Peak

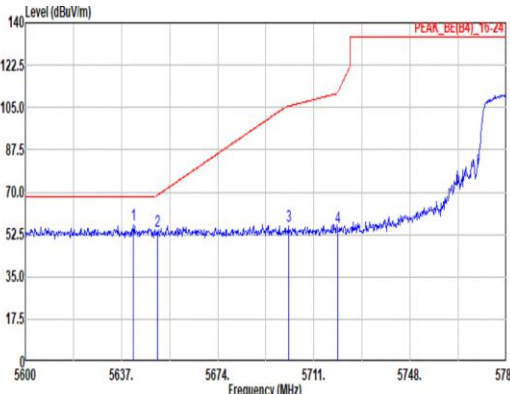
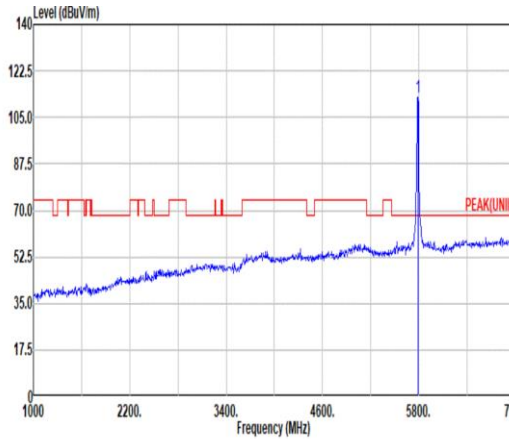
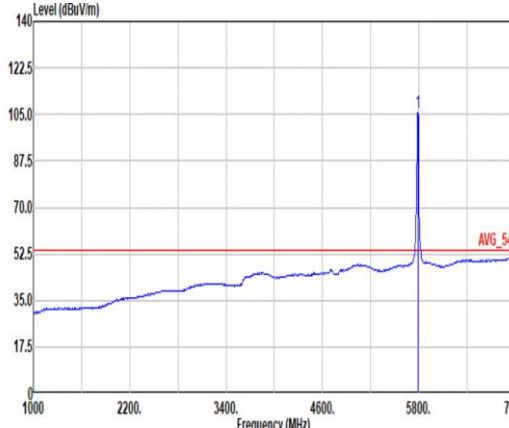


Site : 03CH13-HY
Condition: PEAK_BE(B4)_16-24 3m HORN_91280_1326 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos				
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	5854.96	55.60	110.89	-55.29	47.63	34.32	10.56	36.91	0.00	341	360	PEAK
2	5871.13	56.73	106.28	-49.55	48.69	34.38	10.57	36.91	0.00	341	360	PEAK
3	5924.43	55.03	68.62	-13.59	46.06	34.50	10.59	36.92	0.00	341	360	PEAK
4	5940.43	56.92	68.20	-11.28	48.75	34.50	10.60	36.93	0.00	341	360	PEAK

Blank



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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																		
1	5785.00	112.64	-----	-----	104.92	34.09	10.52	36.89	0.00	197	17 PEAK																																																																																																																	
Avg	Blank	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5785.00</td><td>105.02</td><td>-----</td><td>-----</td><td>98.05</td><td>34.13</td><td>10.53</td><td>36.89</td><td>0.00</td><td>197</td><td>17 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Level	Factor	Loss	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5785.00	105.02	-----	-----	98.05	34.13	10.53	36.89	0.00	197	17 AVERAGE																																																																															
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																			
Freq	Level	Line	Level	Factor	Loss	Factor																																																																																																																						
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																		
1	5785.00	105.02	-----	-----	98.05	34.13	10.53	36.89	0.00	197	17 AVERAGE																																																																																																																	



32

Mode

Band Edge - R

U-NII-3_5.725-5.85_802.11ac VHT20_CH157_5785MHz

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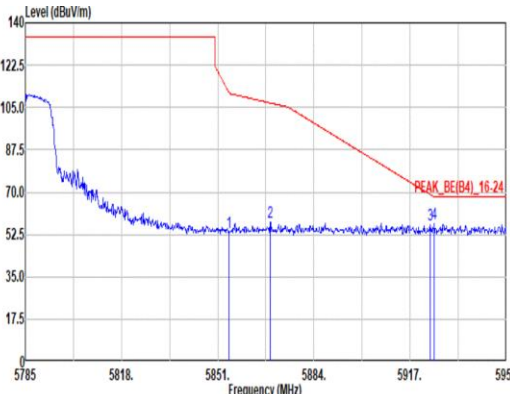
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Pol.

Vertical

Fundamental

Peak

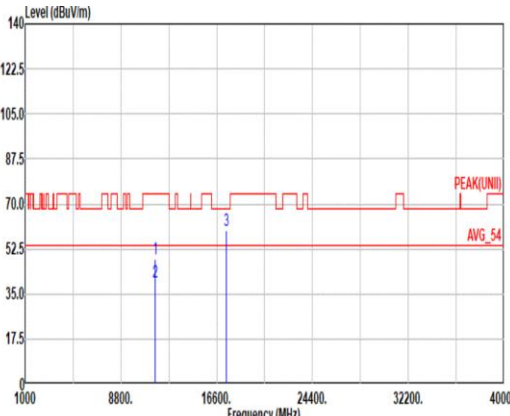
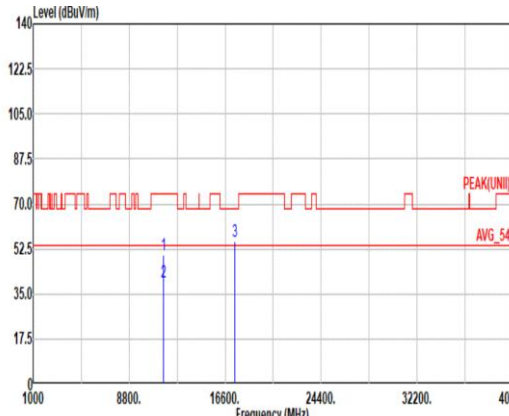


Site : 03CH13-HY
Condition: PEAK_BE(B4)_16-24 3m HORN_91280_1326 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

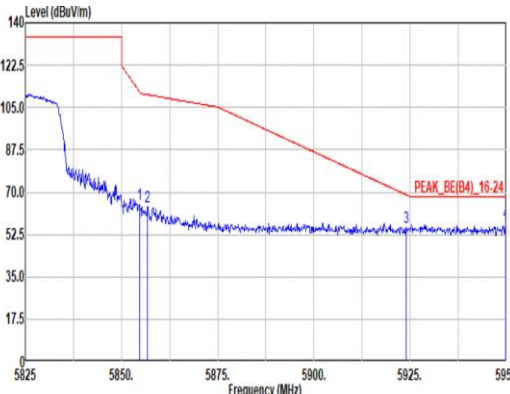
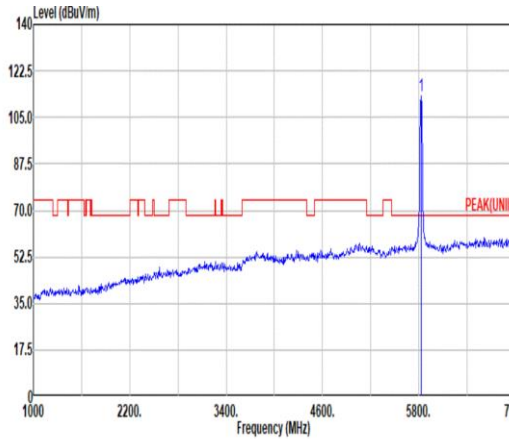
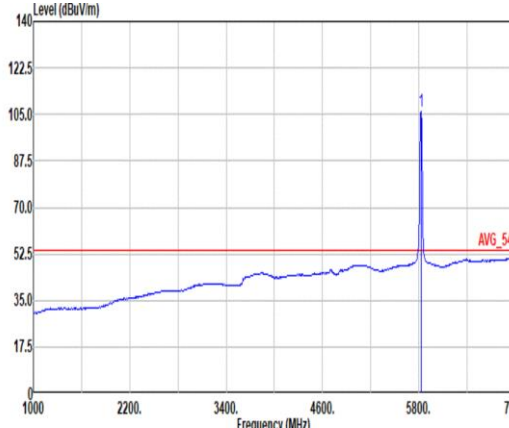
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	5854.96	53.45	110.89	-57.44	45.48	34.32	10.56	36.91	0.00	197	17	PEAK
2	5868.99	57.60	106.88	-49.28	49.56	34.38	10.57	36.91	0.00	197	17	PEAK
3	5923.77	56.52	69.11	-12.59	48.35	34.58	10.59	36.92	0.00	197	17	PEAK
4	5925.25	57.01	68.20	-11.19	48.04	34.58	10.59	36.92	0.00	197	17	PEAK

Blank

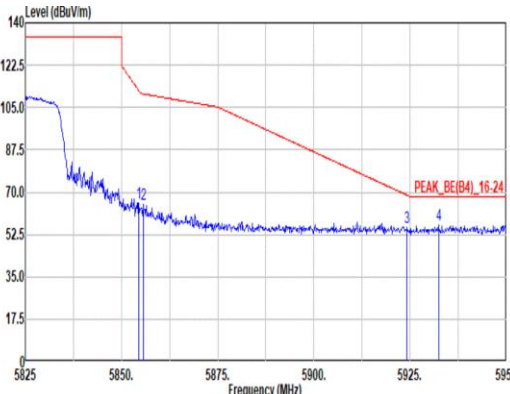
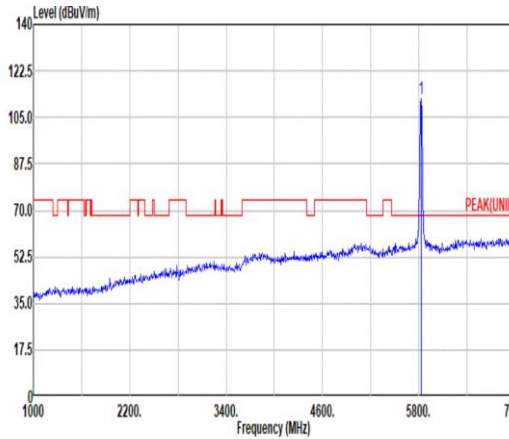
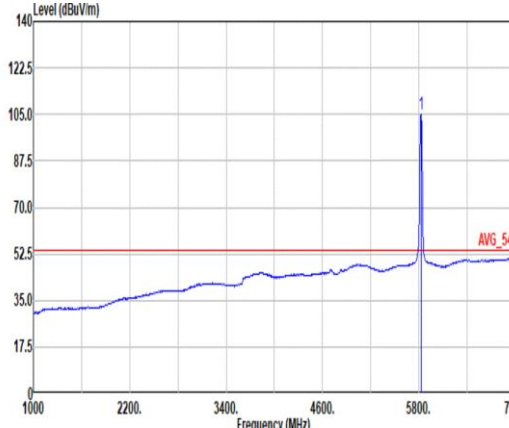


Mode	32												
	Harmonic												
	U-NII-3_5.725-5.85_802.11ac VHT20_CH157_5785MHz												
ANT	1												
Pol.	Horizontal						Vertical						
Peak Avg													
	Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 HORIZONTAL						Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 VERTICAL						
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg
1	11570.00	48.72	74.00	-25.28		49.40	38.72	16.08	56.04	0.56	216	219	PEAK
2	11570.00	39.59	54.00	-14.41		40.27	38.72	16.08	56.04	0.56	216	219	Average
3	17355.00	59.79	68.20	-8.41		57.13	38.82	19.76	56.72	0.80	194	233	PEAK
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg
1	11570.00	50.32	74.00	-23.68		51.00	38.72	16.08	56.04	0.56	140	154	PEAK
2	11570.00	39.48	54.00	-14.52		40.16	38.72	16.08	56.04	0.56	140	154	Average
3	17355.00	55.70	68.20	-12.50		53.04	38.82	19.76	56.72	0.80	294	134	PEAK

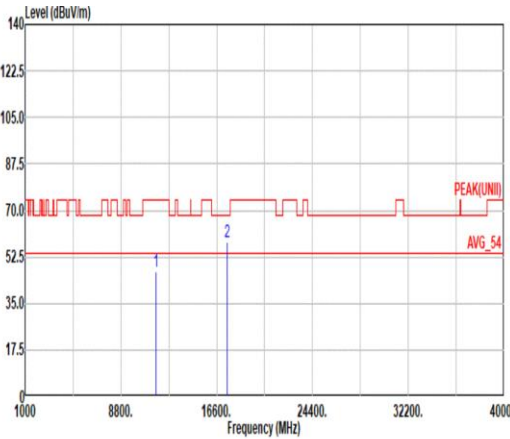
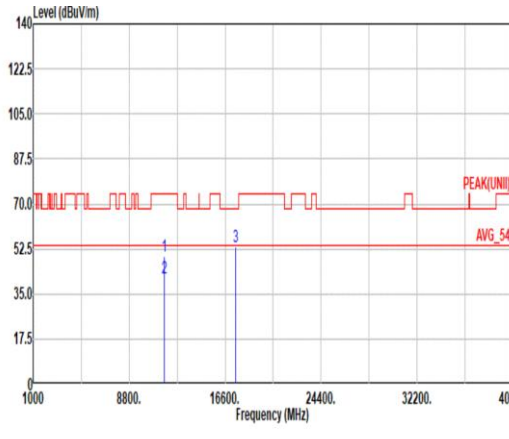


Mode	33																																																																																																																																										
	Band Edge																																																																																																																																										
	U-NII-3_5.725-5.85_802.11ac VHT20_CH165_5825MHz																																																																																																																																										
ANT	1																																																																																																																																										
Pol.	Horizontal						Fundamental																																																																																																																																				
Peak	 Site : 03CH13-HY Condition: PEAK_BE(B4)_16-24 3m HORN_91280_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5854.63</td><td>64.95</td><td>111.65</td><td>-46.70</td><td>56.98</td><td>34.32</td><td>10.56</td><td>36.91</td><td>0.00</td><td>122</td><td>360</td><td>PEAK</td></tr><tr><td>2</td><td>5856.75</td><td>64.07</td><td>110.31</td><td>-46.24</td><td>56.09</td><td>34.33</td><td>10.56</td><td>36.91</td><td>0.00</td><td>122</td><td>360</td><td>PEAK</td></tr><tr><td>3</td><td>5923.88</td><td>55.70</td><td>69.03</td><td>-13.33</td><td>47.53</td><td>34.50</td><td>10.59</td><td>36.92</td><td>0.00</td><td>122</td><td>360</td><td>PEAK</td></tr><tr><td>4</td><td>5949.88</td><td>57.42</td><td>68.20</td><td>-10.78</td><td>49.25</td><td>34.50</td><td>10.60</td><td>36.93</td><td>0.00</td><td>122</td><td>360</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5854.63	64.95	111.65	-46.70	56.98	34.32	10.56	36.91	0.00	122	360	PEAK	2	5856.75	64.07	110.31	-46.24	56.09	34.33	10.56	36.91	0.00	122	360	PEAK	3	5923.88	55.70	69.03	-13.33	47.53	34.50	10.59	36.92	0.00	122	360	PEAK	4	5949.88	57.42	68.20	-10.78	49.25	34.50	10.60	36.93	0.00	122	360	PEAK	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5825.00</td><td>113.16</td><td>-----</td><td>-----</td><td>105.25</td><td>34.26</td><td>10.55</td><td>36.90</td><td>0.00</td><td>122</td><td>360</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5825.00	113.16	-----	-----	105.25	34.26	10.55	36.90	0.00	122	360	PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																		
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4	5949.88	57.42	68.20	-10.78	49.25	34.50	10.60	36.93	0.00	122	360	PEAK																																																																																																																															
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																			
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1	5825.00	113.16	-----	-----	105.25	34.26	10.55	36.90	0.00	122	360	PEAK																																																																																																																															
Avg	Blank						 Site : 03CH13-HY Condition: AVG_54 3m HORN_91280_1326 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5825.00</td><td>105.94</td><td>-----</td><td>-----</td><td>98.04</td><td>34.25</td><td>10.55</td><td>36.90</td><td>0.00</td><td>122</td><td>360</td><td>AVERAGE</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5825.00	105.94	-----	-----	98.04	34.25	10.55	36.90	0.00	122	360	AVERAGE																																																																																			
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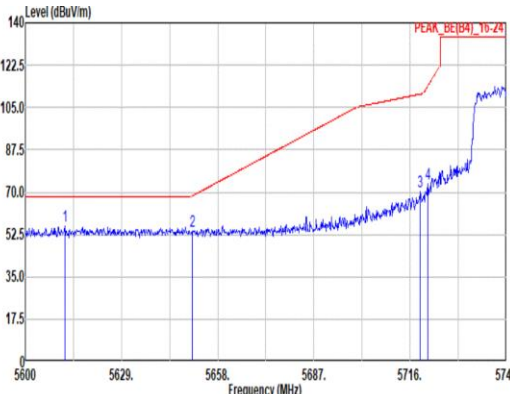
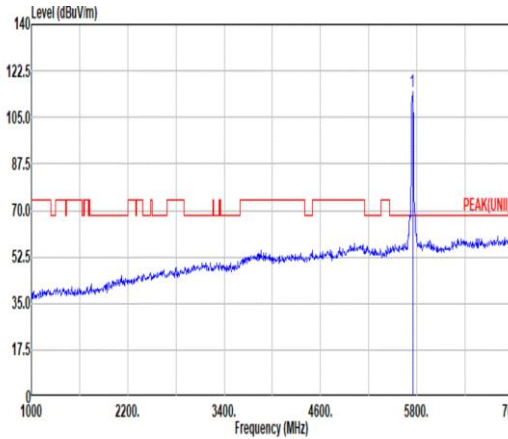
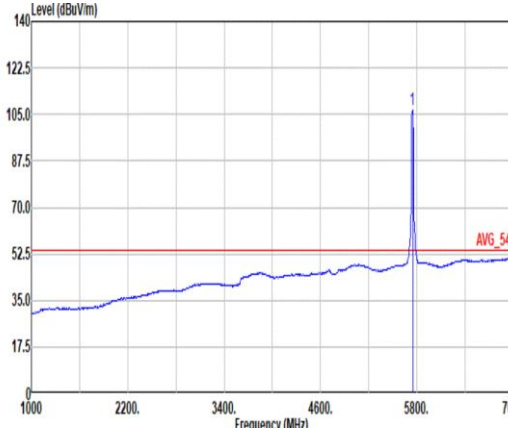


	33																																																																																																																																
Mode	Band Edge																																																																																																																																
	U-NII-3_5.725-5.85_802.11ac VHT20_CH165_5825MHz																																																																																																																																
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Avg	Blank	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5825.00</td><td>105.11</td><td>-----</td><td>-----</td><td>97.21</td><td>34.25</td><td>10.55</td><td>36.90</td><td>0.00</td><td>200</td><td>15</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5825.00	105.11	-----	-----	97.21	34.25	10.55	36.90	0.00	200	15	AVERAGE																																																																																			
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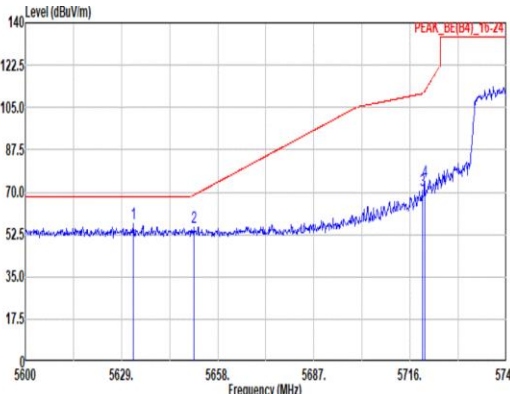
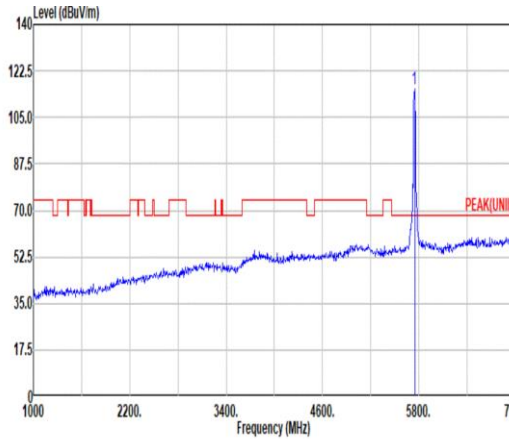
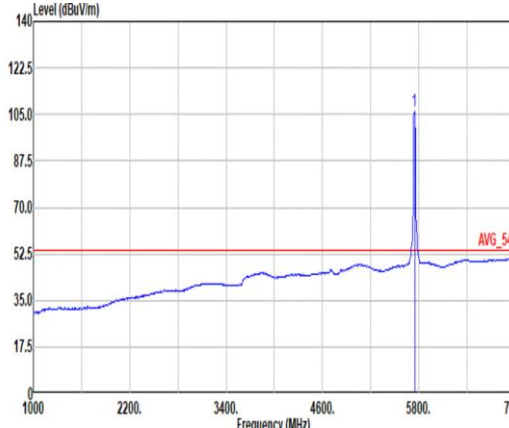


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Pol.	Horizontal	Vertical																																																																																																														
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>11650.00</td><td>47.06</td><td>74.00</td><td>-26.94</td><td>47.90</td><td>38.50</td><td>16.14</td><td>56.04</td><td>0.56 -- -- Peak</td></tr><tr><td>2</td><td>17475.00</td><td>57.94</td><td>68.20</td><td>-10.26</td><td>55.43</td><td>38.00</td><td>19.85</td><td>56.93</td><td>0.79 182 239 PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	11650.00	47.06	74.00	-26.94	47.90	38.50	16.14	56.04	0.56 -- -- Peak	2	17475.00	57.94	68.20	-10.26	55.43	38.00	19.85	56.93	0.79 182 239 PEAK	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>11650.00</td><td>49.91</td><td>74.00</td><td>-24.09</td><td>50.75</td><td>38.50</td><td>16.14</td><td>56.04</td><td>0.56 -- -- PEAK</td></tr><tr><td>2</td><td>11650.00</td><td>41.26</td><td>54.00</td><td>-12.74</td><td>42.10</td><td>38.50</td><td>16.14</td><td>56.04</td><td>0.56 196 190 Average</td></tr><tr><td>3</td><td>17475.00</td><td>53.12</td><td>68.20</td><td>-15.08</td><td>50.61</td><td>38.00</td><td>19.85</td><td>56.93</td><td>0.79 587 139 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	11650.00	49.91	74.00	-24.09	50.75	38.50	16.14	56.04	0.56 -- -- PEAK	2	11650.00	41.26	54.00	-12.74	42.10	38.50	16.14	56.04	0.56 196 190 Average	3	17475.00	53.12	68.20	-15.08	50.61	38.00	19.85	56.93	0.79 587 139 Peak
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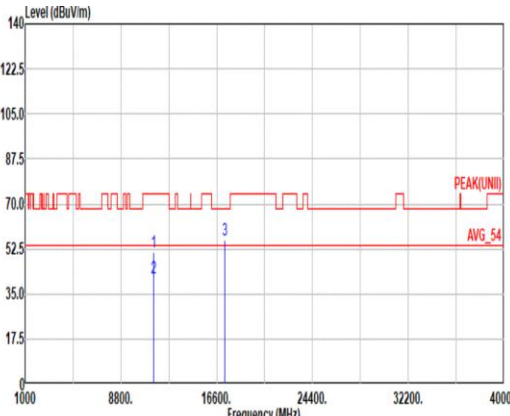
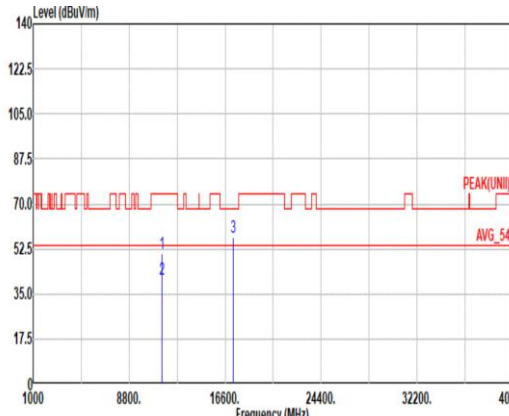


Mode	34																																																																																																																																
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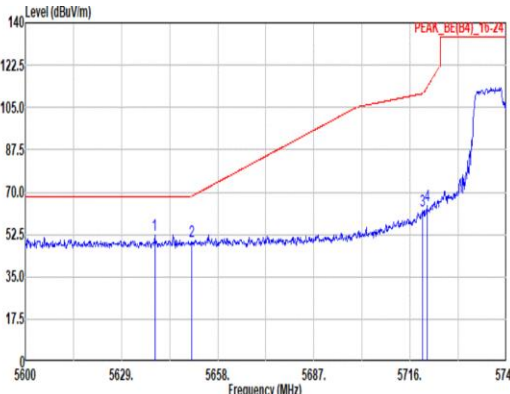
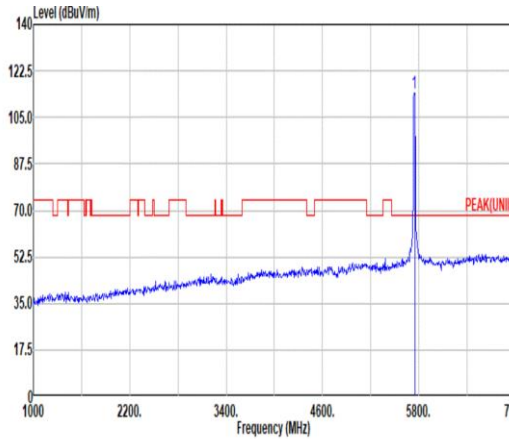
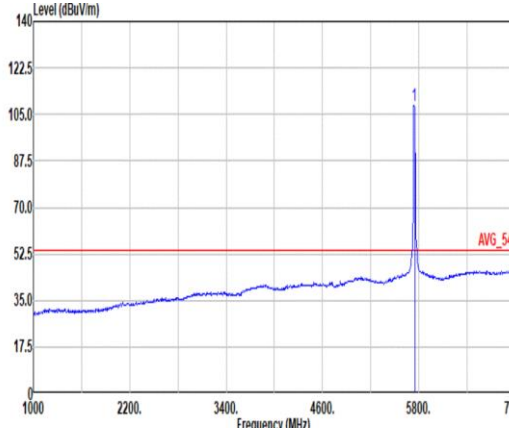


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2	5650.75	55.69	68.76	-13.07	48.96	33.21	10.38	36.06	0.00	200	12	PEAK																																																																																																																					
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4	5720.35	74.74	111.60	-36.86	67.44	33.72	10.45	36.87	0.00	200	12	PEAK																																																																																																																					
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																								
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1	5745.00	115.55	-----	-----	108.07	33.88	10.48	36.88	0.00	200	12	PEAK																																																																																																																					
Avg	Blank	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>106.23</td><td>-----</td><td>-----</td><td>98.75</td><td>33.88</td><td>10.48</td><td>36.88</td><td>0.00</td><td>200</td><td>12</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5745.00	106.23	-----	-----	98.75	33.88	10.48	36.88	0.00	200	12	AVERAGE																																																																																			
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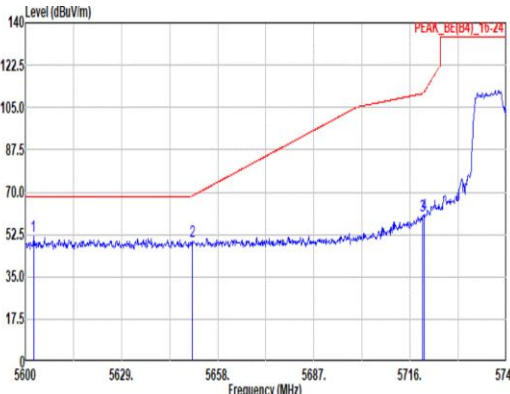
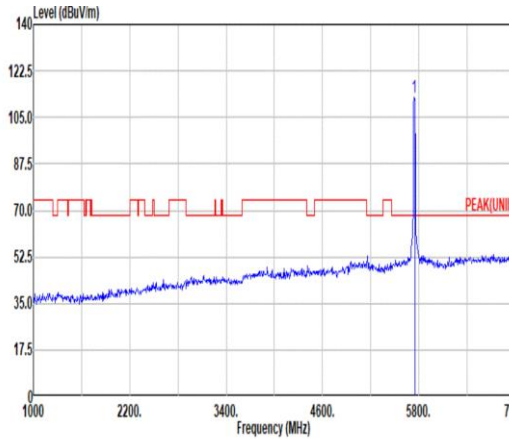
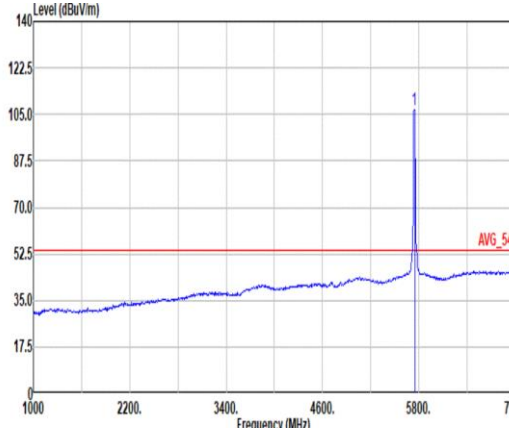


Mode	34																																																																													
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Pol.	Horizontal						Vertical																																																																							
Peak Avg																																																																														
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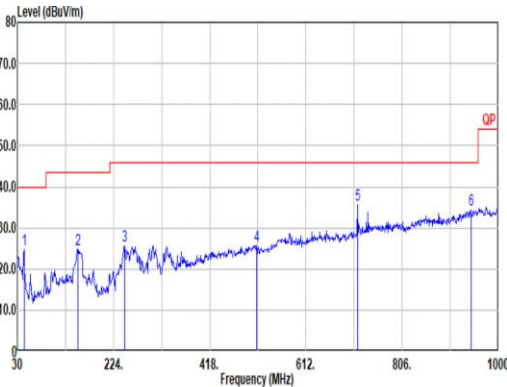


Mode	35																																																																																																																																										
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																		
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Avg	Blank	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:10.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>106.05</td><td>-----</td><td>-----</td><td>99.42</td><td>33.84</td><td>10.47</td><td>36.88</td><td>0.00</td><td>200</td><td>17</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5745.00	106.05	-----	-----	99.42	33.84	10.47	36.88	0.00	200	17	AVERAGE																																																																																			
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																									
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1	5745.00	106.05	-----	-----	99.42	33.84	10.47	36.88	0.00	200	17	AVERAGE																																																																																																																					



Mode	36											
	LF											
	U-NII-3_5.725-5.85_802.11ac VHT20_CH157_5785MHz											
ANT	1											
Pol.	Horizontal					Vertical						
QP/ Peak												
	Site : 03CH13-HY Condition: QP 3m BILOG_40103 HORIZONTAL											
	Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	43.58	24.62	40.00	-15.38	38.14	17.58	1.07	32.29	0.12	--	--	Peak
2	152.22	24.85	43.50	-18.65	38.13	16.98	1.06	32.21	0.09	--	--	Peak
3	246.31	25.75	46.00	-20.25	37.30	18.16	2.31	32.14	0.12	--	--	Peak
4	512.09	25.79	46.00	-20.21	30.52	24.10	3.25	32.19	0.11	--	--	Peak
5	715.79	35.72	46.00	-10.28	36.06	27.03	3.80	32.11	0.14	--	--	Peak
6	944.71	34.31	46.00	-11.69	30.09	30.79	4.27	31.04	0.20	--	--	Peak
	Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	43.58	32.37	40.00	-7.63	45.89	17.58	1.07	32.29	0.12	--	--	Peak
2	182.29	22.82	43.50	-20.68	38.04	14.87	2.01	32.20	0.10	--	--	Peak
3	260.86	24.01	46.00	-21.99	33.65	20.00	2.37	32.13	0.12	--	--	Peak
4	481.05	26.58	46.00	-19.42	31.87	23.62	3.16	32.18	0.11	--	--	Peak
5	716.76	32.77	46.00	-13.23	33.87	27.07	3.80	32.11	0.14	--	--	Peak
6	959.26	36.07	46.00	-9.93	31.47	31.00	4.30	30.91	0.21	--	--	Peak



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	96.84	1380	0.72	1kHz
5GHz 802.11ac VHT20	97.04	1310	0.76	1kHz
5GHz 802.11ax HE20 Full RU	96.56	1011	0.99	1kHz
5GHz 802.11ax HE20 106 RU	84.48	196	5.10	10kHz

