



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



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History of this test report

Report No.	Version	Description	Issue Date
FR452127-01C	01	Initial issue of report	Nov. 01, 2024
FR452127-01C	02	Revise Section 2.1 This report is an updated version, replacing the report issued on Nov. 01, 2024.	Nov. 11, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	3.19 dB under the limit at 5467.15 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: Ming 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		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	5.0
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	5.0
5470 MHz ~ 5725 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 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)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	-	5190	-	5230
	40	5200	48	5240
	-	5210		

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

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



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	-	5590	124	5620
	120	5600	-	5630
	-	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	-	5690	144	5720
	-	5710		

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.

MIMO Mode

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	

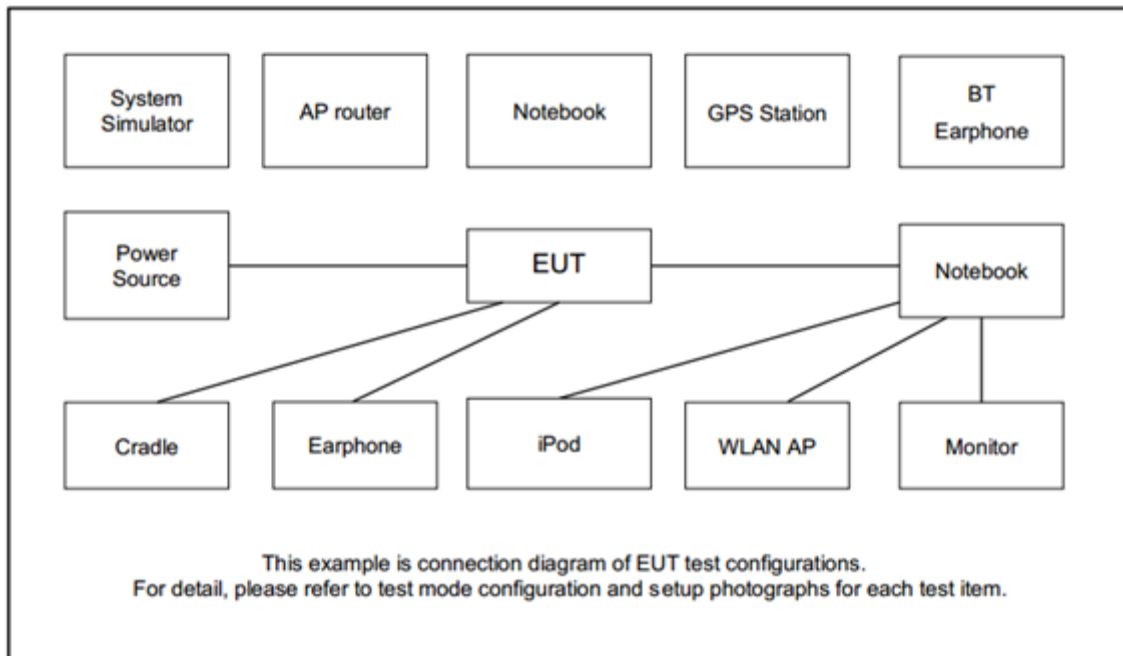
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

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

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(SVN#9298)” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

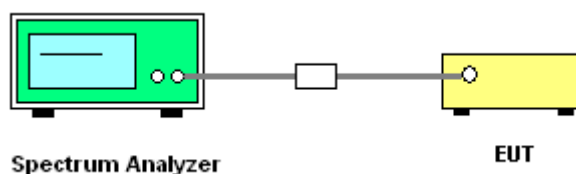
3.1.2 Measuring Instruments

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

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

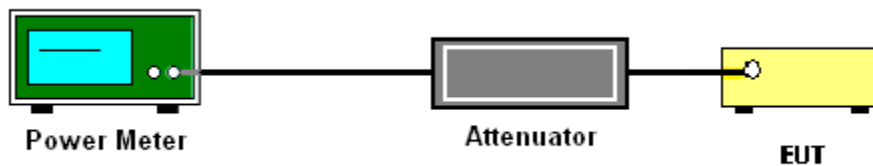
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

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.

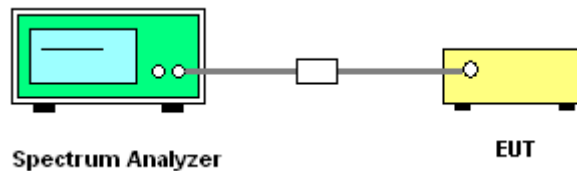
Section F) Maximum power spectral density.

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 = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / 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 $10 \log(1/0.25) = 6$ 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 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.

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



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

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

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

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

3.4.2 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

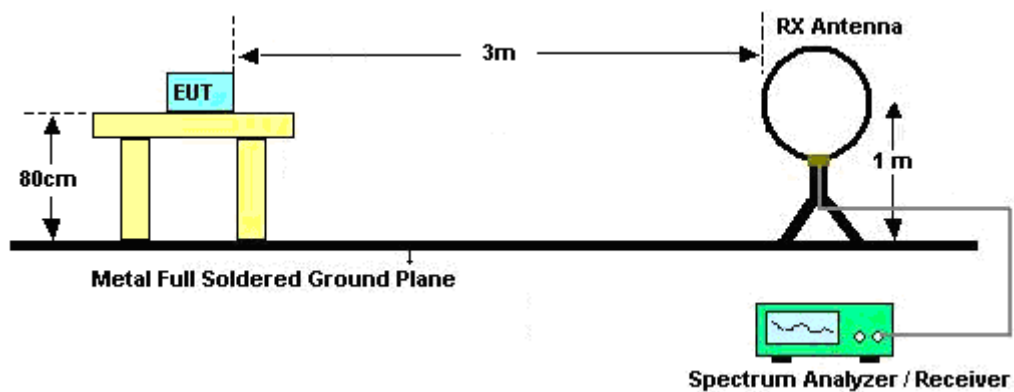
(2) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

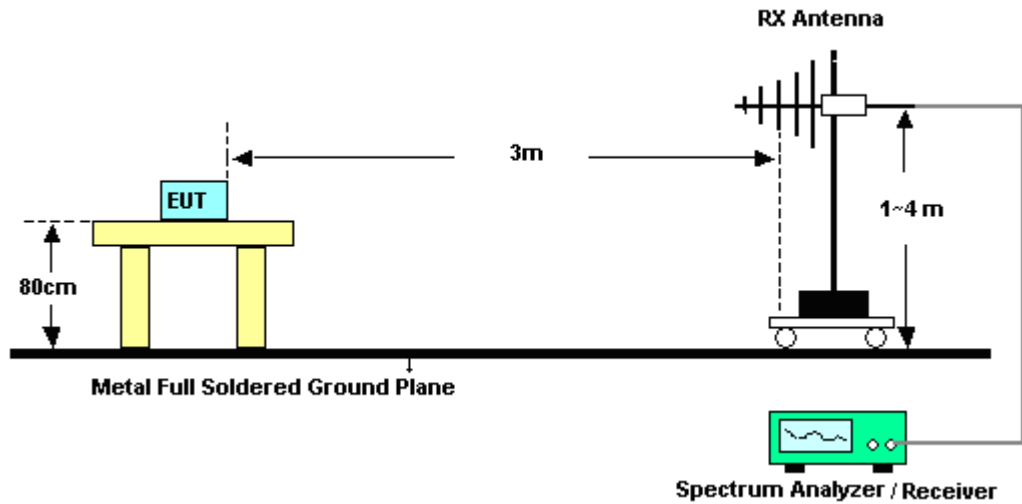
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

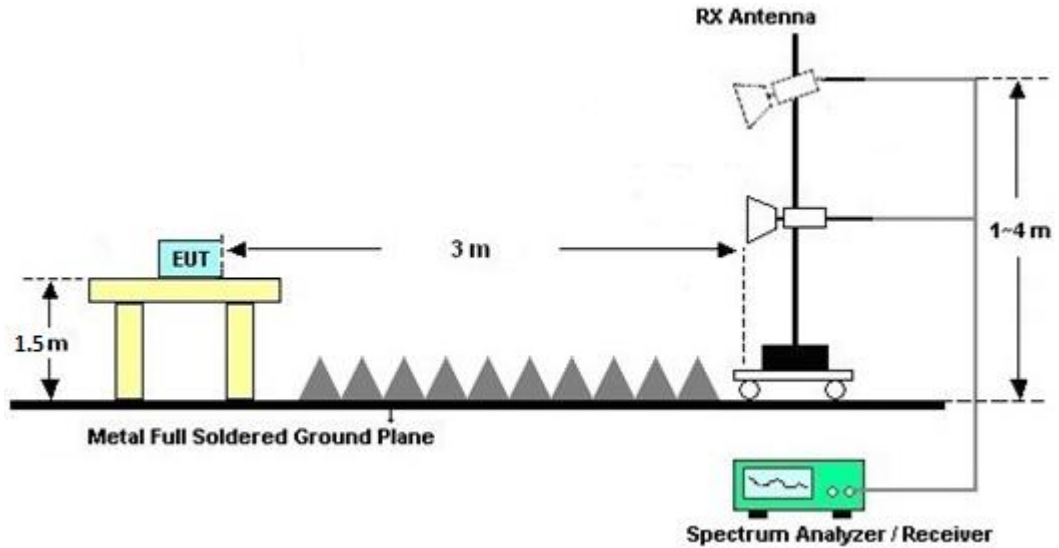
For radiated emissions below 30MHz



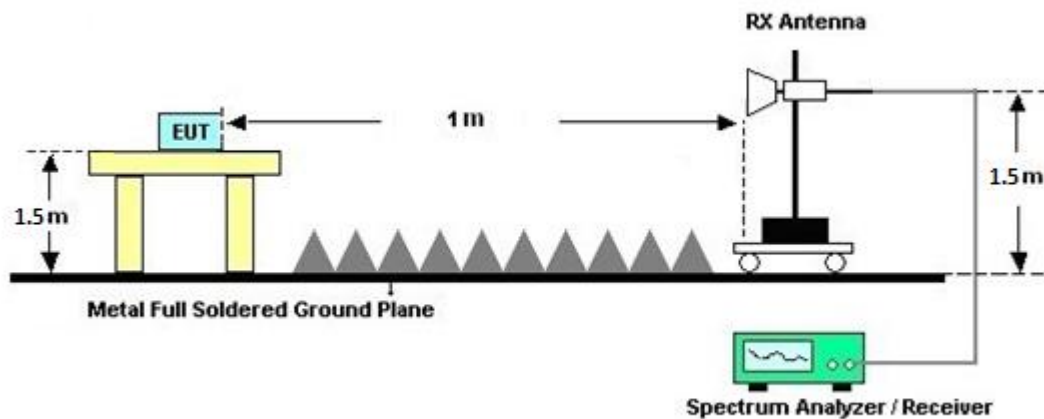
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix 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.

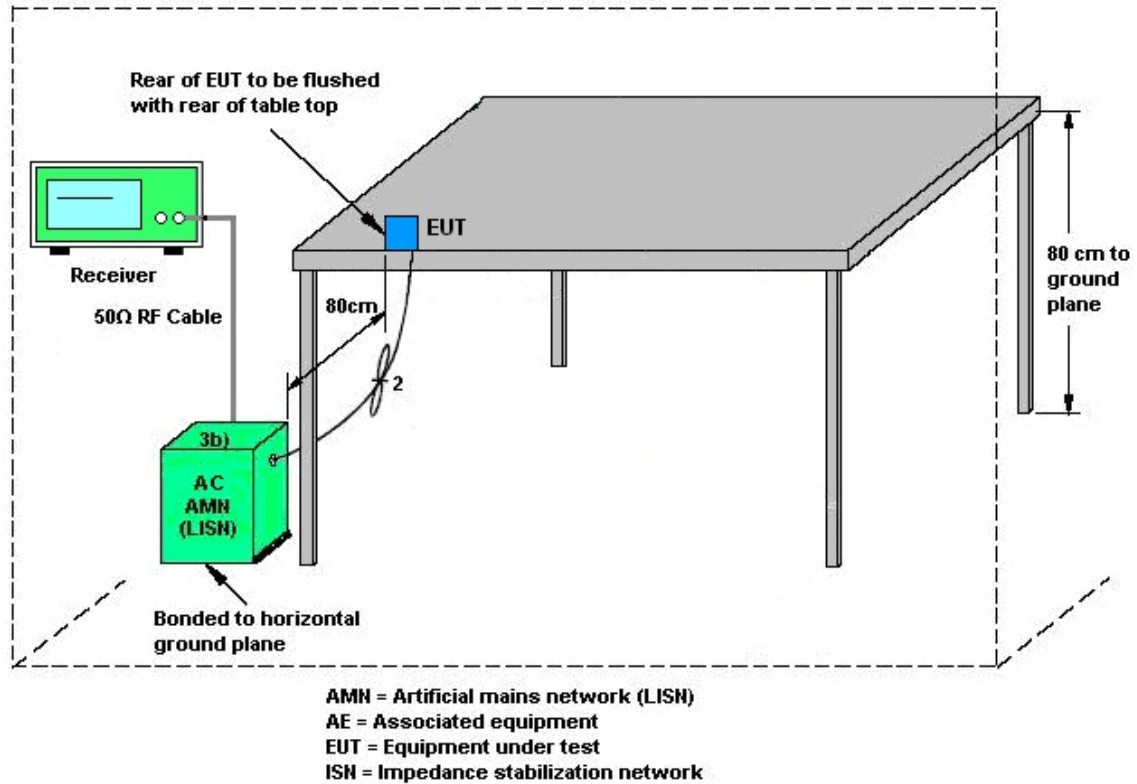
3.5.2 Measuring Instruments

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
Hygrometer	TECEPIL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Aug. 30, 2024~ Sep. 23, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Aug. 30, 2024~ Sep. 23, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Aug. 30, 2024~ Sep. 23, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Aug. 30, 2024~ Sep. 23, 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. 23, 2024	N/A	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Dec. 19, 2023	Aug. 30, 2024~ Sep. 23, 2024	Dec. 18, 2024	Conducted (TH05-HY)
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-F N	9561-F N00373	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)
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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.60 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
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2024/8/30~2024/9/23	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.78	-	20.05	-	-	-	22.25	-	-
11a	6Mbps	1	44	5220	16.88	-	22.32	-	-	-	22.27	-	
11a	6Mbps	1	48	5240	16.93	-	22.38	-	-	-	22.29	-	
VHT20	MCS0	1	36	5180	17.68	-	20.48	-	-	-	22.48	-	
VHT20	MCS0	1	44	5220	17.73	-	20.83	-	-	-	22.49	-	
VHT20	MCS0	1	48	5240	17.78	-	20.91	-	-	-	22.50	-	

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	16.40	-	-	24.00	-	5.00	-	Pass
11a	6Mbps	1	44	5220	19.30	-		24.00	-	5.00	-	Pass
11a	6Mbps	1	48	5240	19.30	-		24.00	-	5.00	-	Pass
HT20	MCS0	1	36	5180	16.40	-		24.00	-	5.00	-	Pass
HT20	MCS0	1	44	5220	19.10	-		24.00	-	5.00	-	Pass
HT20	MCS0	1	48	5240	19.10	-		24.00	-	5.00	-	Pass
VHT20	MCS0	1	36	5180	16.60	-		24.00	-	5.00	-	Pass
VHT20	MCS0	1	44	5220	19.20	-		24.00	-	5.00	-	Pass
VHT20	MCS0	1	48	5240	19.20	-		24.00	-	5.00	-	Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	0.13	-	5.09	-	-	11.00	-	5.00	-	Pass
11a	6Mbps	1	44	5220	0.13	-	7.75	-		11.00	-	5.00	-	Pass
11a	6Mbps	1	48	5240	0.13	-	7.94	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	36	5180	0.13	-	4.28	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	44	5220	0.13	-	7.62	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	48	5240	0.13	-	7.54	-		11.00	-	5.00	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	17.03	-	27.89	-	23.31	-	29.31	-	23.98	-	-
11a	6Mbps	1	60	5300	17.13	-	27.77	-	23.34	-	29.34	-	23.98	-	
11a	6Mbps	1	64	5320	16.83	-	20.18	-	23.26	-	29.26	-	23.98	-	
VHT20	MCS0	1	52	5260	17.83	-	24.29	-	23.51	-	29.51	-	23.98	-	
VHT20	MCS0	1	60	5300	17.83	-	26.44	-	23.51	-	29.51	-	23.98	-	
VHT20	MCS0	1	64	5320	17.68	-	20.46	-	23.48	-	29.48	-	23.98	-	

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		
11a	6Mbps	1	52	5260	20.50	-	-	23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	60	5300	20.60	-		23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	64	5320	17.90	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	52	5260	20.30	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	60	5300	20.20	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	64	5320	17.30	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	52	5260	20.40	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	60	5300	20.30	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	64	5320	17.40	-		23.98	-	5.00	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	0.13	-	9.30	-	-	11.00	-	5.00	-	Pass
11a	6Mbps	1	60	5300	0.13	-	9.02	-		11.00	-	5.00	-	Pass
11a	6Mbps	1	64	5320	0.13	-	6.54	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	52	5260	0.13	-	8.75	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	60	5300	0.13	-	8.40	-		11.00	-	5.00	-	Pass
VHT20	MCS0	1	64	5320	0.13	-	5.74	-		11.00	-	5.00	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.78	-	20.17	-	23.25	-	29.25	-	23.98	-	----	----
11a	6Mbps	1	116	5580	17.03	-	25.70	-	23.31	-	29.31	-	23.98	-	----	----
11a	6Mbps	1	140	5700	16.83	-	20.18	-	23.26	-	29.26	-	23.98	-	----	----
VHT20	MCS0	1	100	5500	17.68	-	20.42	-	23.48	-	29.48	-	23.98	-	----	----
VHT20	MCS0	1	116	5580	17.83	-	23.67	-	23.51	-	29.51	-	23.98	-	----	----
VHT20	MCS0	1	140	5700	17.68	-	20.45	-	23.48	-	29.48	-	23.98	-	----	----

U-NII-2C straddle channel single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.64	-	20.46	-	22.35	-	28.35	-	23.98	-	2.525	-
VHT20	MCS0	1	144	5720	14.04	-	18.70	-	22.47	-	28.47	-	23.72	-	2.53	-
6dB Bandwidth Limit $\geq$ 500kHz															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		
11a	6Mbps	1	100	5500	17.90	-	-	23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	116	5580	19.90	-		23.98	-	5.00	-	26.99	Pass
11a	6Mbps	1	140	5700	17.30	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	100	5500	17.30	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	116	5580	19.90	-		23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	140	5700	16.70	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	100	5500	17.50	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	116	5580	20.00	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	140	5700	17.00	-		23.98	-	5.00	-	26.99	Pass

FCC U-NII-2C straddle channel 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		
11a	6Mbps	1	144	5720	20.10	-	-	23.98	-	5.00	-	26.99	Pass
HT20	MCS0	1	144	5720	20.00	-		23.98	-	5.00	-	26.99	Pass
VHT20	MCS0	1	144	5720	20.10	-		23.72	-	5.00	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.13	-	6.49	-	-	11.00	-	5.00	-	-	Pass
11a	6Mbps	1	116	5580	0.13	-	8.54	-		11.00	-	5.00	-		Pass
11a	6Mbps	1	140	5700	0.13	-	6.11	-		11.00	-	5.00	-		Pass
VHT20	MCS0	1	100	5500	0.13	-	5.02	-		11.00	-	5.00	-		Pass
VHT20	MCS0	1	116	5580	0.13	-	8.17	-		11.00	-	5.00	-		Pass
VHT20	MCS0	1	140	5700	0.13	-	5.79	-		11.00	-	5.00	-		Pass

U-NII-2C straddle channel single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	0.13	-	9.03	-	-	11.00	-	5.00	-	-	Pass
VHT20	MCS0	1	144	5720	0.13	-	8.80	-		11.00	-	5.00	-		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	36	5180	Full	18.83	-	20.71	-	-	-	22.75	-	-
HE20	MCS0	1	44	5220	Full	18.83	-	20.66	-	-	-	22.75	-	
HE20	MCS0	1	48	5240	Full	18.83	-	20.57	-	-	-	22.75	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	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		
HE20	MCS0	1	36	5180	Full	16.30	-	-	24.00	-	5.00	-	-	Pass
HE20	MCS0	1	36	5180	26/0	7.30	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	36	5180	52/37	10.20	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	36	5180	106/53	12.80	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	44	5220	Full	19.00	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	44	5220	26/4	11.50	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	44	5220	52/38	13.90	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	44	5220	106/53	16.10	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	48	5240	Full	19.00	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	48	5240	26/8	10.10	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	48	5240	52/40	12.70	-		24.00	-	5.00	-		Pass
HE20	MCS0	1	48	5240	106/54	15.80	-		24.00	-	5.00	-		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	36	5180	Full	0.15	-	3.68	-	-	11.00	-	5.00	-	Pass
HE20	MCS0	1	36	5180	26/0	0.06	-	3.28	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	36	5180	52/37	0.06	-	3.53	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	36	5180	106/53	0.05	-	3.24	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	44	5220	Full	0.15	-	6.86	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	44	5220	26/4	0.06	-	6.68	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	44	5220	52/38	0.06	-	6.73	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	44	5220	106/53	0.05	-	6.51	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	48	5240	Full	0.15	-	6.74	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	48	5240	26/8	0.06	-	6.55	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	48	5240	52/40	0.06	-	6.29	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	48	5240	106/54	0.05	-	6.50	-		11.00	-	5.00	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	52	5260	Full	18.83	-	20.70	-	23.75	-	29.75	-	23.98	-	
HE20	MCS0	1	60	5300	Full	18.88	-	20.79	-	23.76	-	29.76	-	23.98	-	
HE20	MCS0	1	64	5320	Full	18.78	-	20.70	-	23.74	-	29.74	-	23.98	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	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		
HE20	MCS0	1	52	5260	Full	20.20	-	-	23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	52	5260	26/0	11.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	52	5260	52/37	14.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	52	5260	106/53	17.70	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	60	5300	Full	20.10	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	60	5300	26/4	13.10	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	60	5300	52/38	15.10	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	60	5300	106/53	17.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	64	5320	Full	16.30	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	64	5320	26/8	7.80	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	64	5320	52/40	10.60	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	64	5320	106/54	14.00	-		23.98	-	5.00	-	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	52	5260	Full	0.15	-	8.68	-	-	11.00	-	5.00	-	Pass
HE20	MCS0	1	52	5260	26/0	0.06	-	8.26	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	52	5260	52/37	0.06	-	8.47	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	52	5260	106/53	0.05	-	8.39	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	60	5300	Full	0.15	-	8.64	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	60	5300	26/4	0.06	-	8.16	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	60	5300	52/38	0.06	-	8.40	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	60	5300	106/53	0.05	-	8.22	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	64	5320	Full	0.15	-	4.64	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	64	5320	26/8	0.06	-	4.38	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	64	5320	52/40	0.06	-	4.32	-		11.00	-	5.00	-	Pass
HE20	MCS0	1	64	5320	106/54	0.05	-	4.28	-		11.00	-	5.00	-	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	1	100	5500	Full	18.83	-	20.70	-	23.75	-	29.75	-	23.98	-	----	----
HE20	MCS0	1	116	5580	Full	18.83	-	20.68	-	23.75	-	29.75	-	23.98	-	----	----
HE20	MCS0	1	140	5700	Full	18.78	-	20.71	-	23.74	-	29.74	-	23.98	-	----	----

U-NII-2C straddle channel single antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	1	144	5720	Full	14.49	-	15.52	-	22.61	-	28.61	-	22.91	-	3.83	-
6dB Bandwidth Limit $\geq$ 500kHz																Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	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		
HE20	MCS0	1	100	5500	Full	17.50	-	-	23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	100	5500	26/0	7.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	100	5500	52/37	10.60	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	100	5500	106/53	13.40	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	116	5580	Full	19.80	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	116	5580	26/4	10.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	116	5580	52/38	12.70	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	116	5580	106/53	15.50	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	140	5700	Full	17.00	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	140	5700	26/8	7.90	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	140	5700	52/40	10.30	-		23.98	-	5.00	-	26.99	Pass
HE20	MCS0	1	140	5700	106/54	14.30	-		23.98	-	5.00	-	26.99	Pass

FCC U-NII-2C straddle channel single antenna														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	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		
HE20	MCS0	1	144	5720	Full	19.90	-	-	22.91	-	5.00	-	26.99	Pass
HE20	MCS0	1	144	5720	26/8	11.40	-		22.91	-	5.00	-	26.99	Pass
HE20	MCS0	1	144	5720	52/40	14.40	-		22.91	-	5.00	-	26.99	Pass
HE20	MCS0	1	144	5720	106/54	17.50	-		22.91	-	5.00	-	26.99	Pass

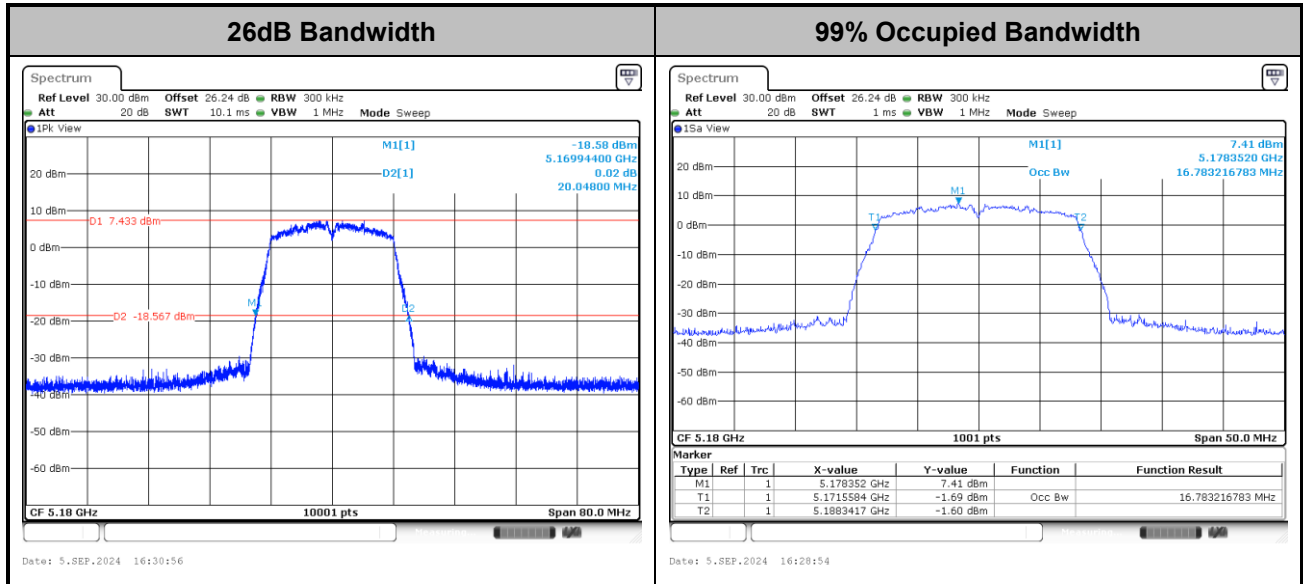
TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	100	5500	Full	0.15	-	4.56	-	-	11.00	-	5.00	-	-	Pass
HE20	MCS0	1	100	5500	26/0	0.06	-	4.37	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	100	5500	52/37	0.06	-	4.18	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	100	5500	106/53	0.05	-	4.14	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	116	5580	Full	0.15	-	7.30	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	116	5580	26/4	0.06	-	6.89	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	116	5580	52/38	0.06	-	6.70	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	116	5580	106/53	0.05	-	7.10	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	140	5700	Full	0.15	-	5.16	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	140	5700	26/8	0.06	-	4.76	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	140	5700	52/40	0.06	-	4.78	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	140	5700	106/54	0.05	-	4.66	-		11.00	-	5.00	-		Pass

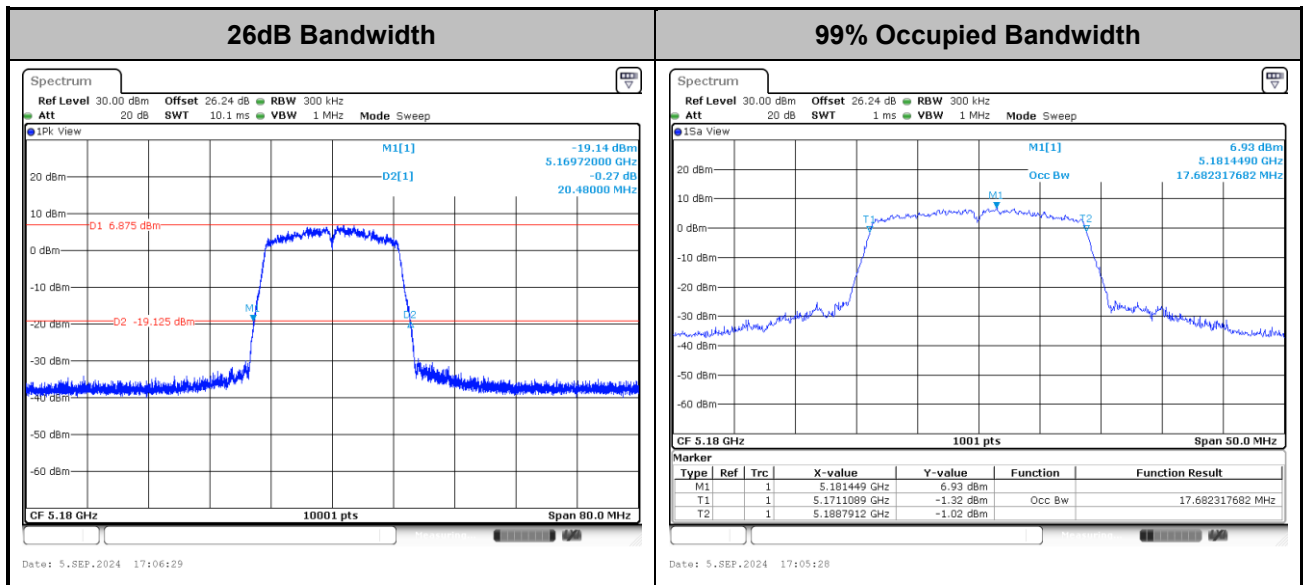
U-NII-2C straddle channel single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	144	5720	Full	0.15	-	8.17	-	-	11.00	-	5.00	-	-	Pass
HE20	MCS0	1	144	5720	26/8	0.06	-	7.74	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	144	5720	52/40	0.06	-	7.70	-		11.00	-	5.00	-		Pass
HE20	MCS0	1	144	5720	106/54	0.05	-	7.85	-		11.00	-	5.00	-		Pass

**Test Result of 26dB & 99% Occupied Bandwidth**

<802.11a>

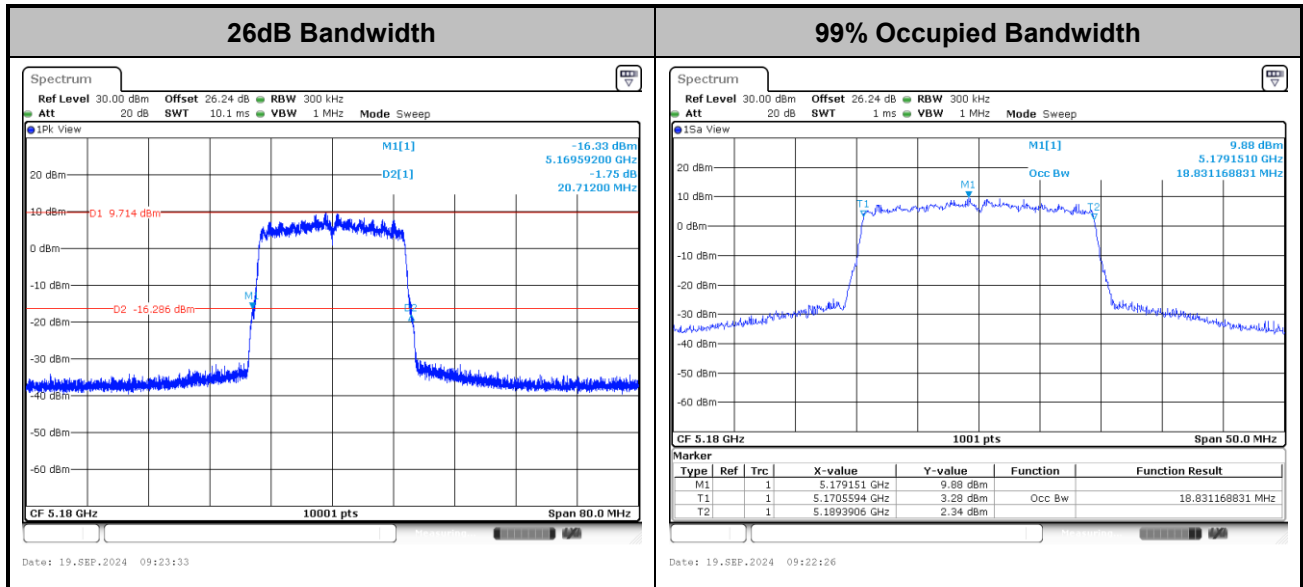


<802.11ac VHT20>





<802.11ax HE20>

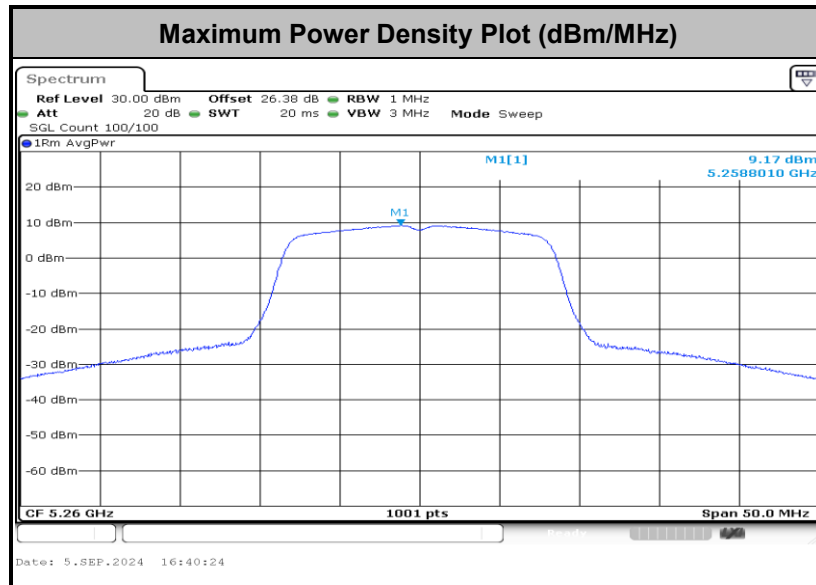


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



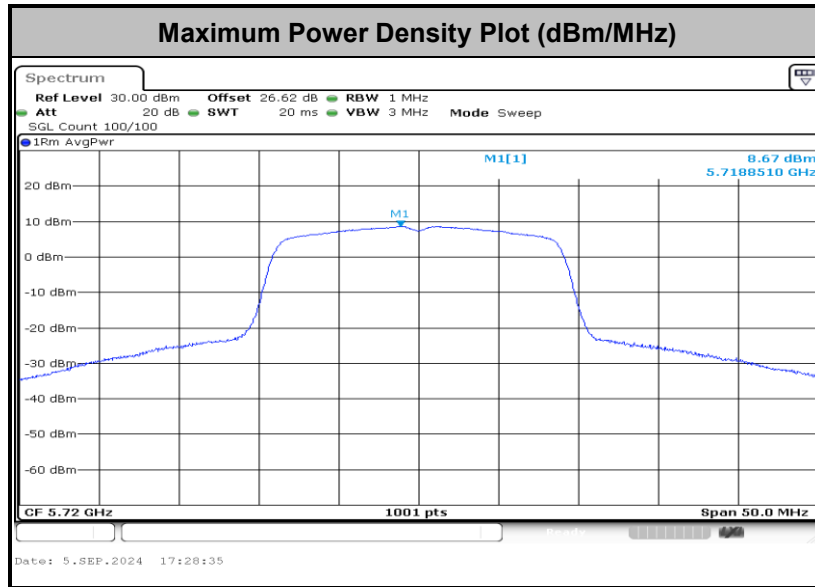
Test Result of Power Spectral Density

<802.11a>

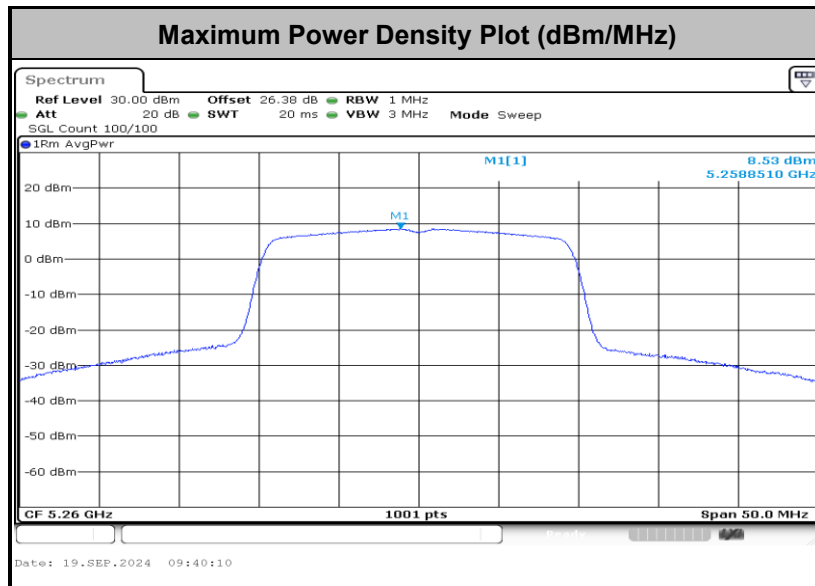




<802.11ac VHT20>



<802.11ax HE20>





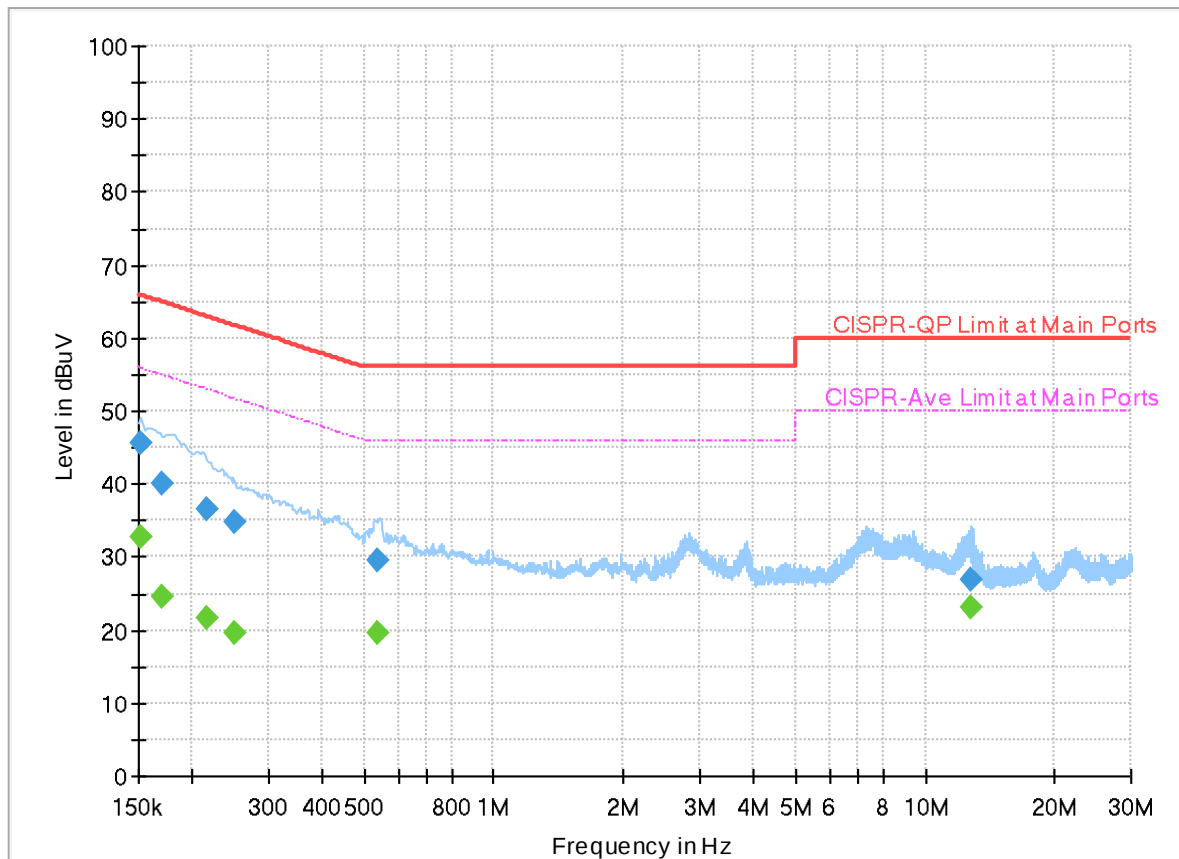
Appendix B. AC Conducted Emission Test Results

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

EUT Information

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

Full Spectrum



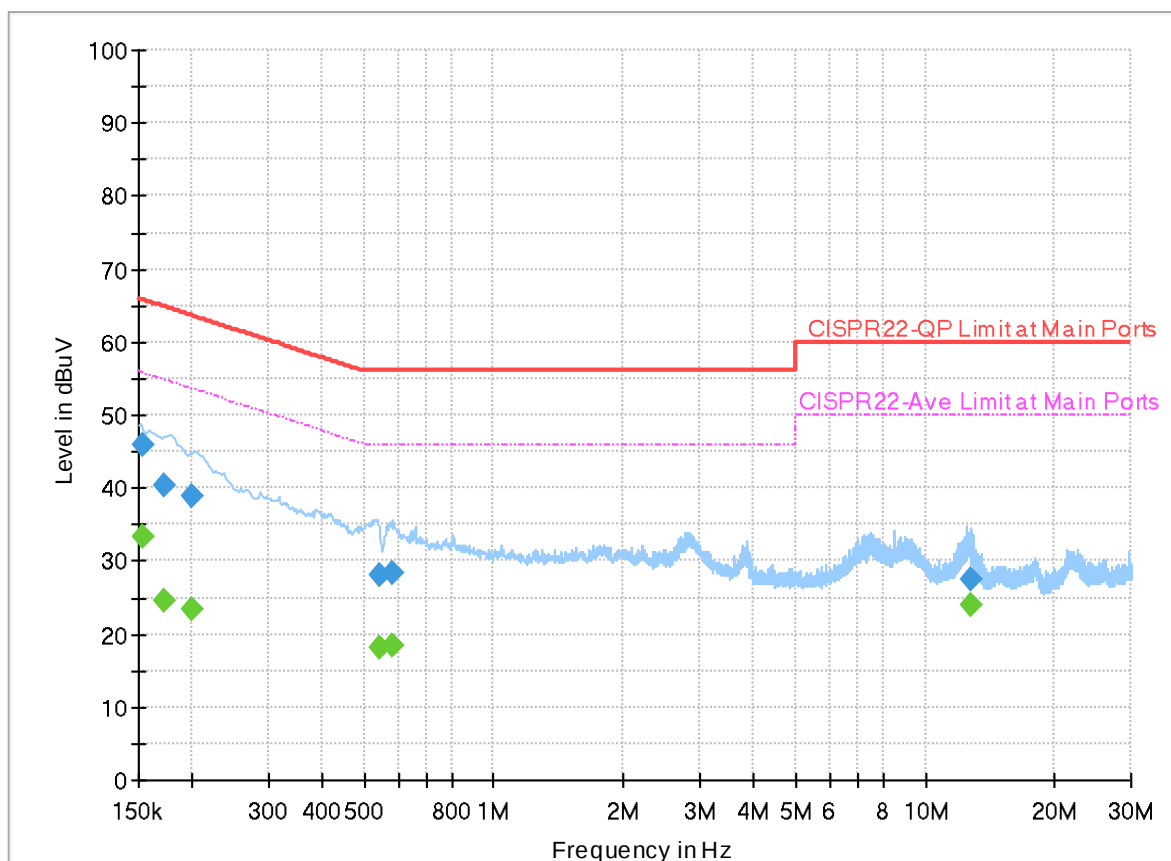
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	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 1	U-NII-1	5.15-5.25	1	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	1	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	1	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	1	802.11ac VHT20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	1	802.11ac VHT20	44	5220	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	1	802.11ac VHT20	48	5240	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	1	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 8	U-NII-1	5.15-5.25	1	802.11ax HE20	36	5180	MCS0	Partial_106/53RU	-
Mode 9	U-NII-2A	5.25-5.35	1	802.11a	52	5260	6Mbps	-	-
Mode 10	U-NII-2A	5.25-5.35	1	802.11a	60	5300	6Mbps	-	-
Mode 11	U-NII-2A	5.25-5.35	1	802.11a	64	5320	6Mbps	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	U-NII-2A	5.25-5.35	1	802.11ac VHT20	52	5260	MCS0	-	-
Mode 13	U-NII-2A	5.25-5.35	1	802.11ac VHT20	60	5300	MCS0	-	-
Mode 14	U-NII-2A	5.25-5.35	1	802.11ac VHT20	64	5320	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	1	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 16	U-NII-2A	5.25-5.35	1	802.11ax HE20	64	5320	MCS0	Partial_106/54RU	-
Mode 17	U-NII-2C	5.47-5.725	1	802.11a	100	5500	6Mbps	-	-
Mode 18	U-NII-2C	5.47-5.725	1	802.11a	116	5580	6Mbps	-	-
Mode 19	U-NII-2C	5.47-5.725	1	802.11a	140	5700	6Mbps	-	-
Mode 20	U-NII-2C	5.47-5.725	1	802.11ac VHT20	100	5500	MCS0	-	-
Mode 21	U-NII-2C	5.47-5.725	1	802.11ac VHT20	116	5580	MCS0	-	-
Mode 22	U-NII-2C	5.47-5.725	1	802.11ac VHT20	140	5700	MCS0	-	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 23	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	Full RU	-
Mode 24	U-NII-2C	5.47-5.725	1	802.11ax HE20	100	5500	MCS0	Partial_106/53RU	-
Mode 26	U-NII-2C	5.47-5.725	1	802.11a	144	5720	6Mbps	-	-
Mode 27	U-NII-2C	5.47-5.725	1	802.11ac VHT20	144	5720	MCS0	-	-
Mode 25	U-NII-2C	5.47-5.725	1	802.11a	100	5500	6Mbps	-	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
1	802.11a	36	5149.94	50.08	54.00	-3.92	H	Avg.	Pass	-	Band Edge
	802.11a	36	10360.00	47.72	68.20	-20.48	V	Peak	Pass	-	Harmonic
2	802.11a	44	5147.40	47.55	54.00	-6.45	V	Avg.	Pass	-	Band Edge
	802.11a	44	15660.00	49.41	54.00	-4.59	V	Avg.	Pass	-	Harmonic
3	802.11a	48	5068.40	47.52	54.00	-6.48	H	Avg.	Pass	-	Band Edge
	802.11a	48	15720.00	42.69	54.00	-11.31	H	Avg.	Pass	-	Harmonic
4	802.11ac VHT20	36	5149.22	49.89	54.00	-4.11	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	36	10360.00	49.00	68.20	-19.20	V	Peak	Pass	-	Harmonic
5	802.11ac VHT20	44	5147.84	48.42	54.00	-5.58	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	44	15660.00	37.98	54.00	-16.02	H	Avg.	Pass	-	Harmonic
6	802.11ac VHT20	48	5146.40	48.15	54.00	-5.85	H	Avg.	Pass	-	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11ac VHT20	48	15720.00	38.18	54.00	-15.82	H	Avg.	Pass	-	Harmonic
7	802.11ax HE20	36	5147.24	50.25	54.00	-3.75	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	36	15540.00	47.24	54.00	-6.76	H	Avg.	Pass	Full RU	Harmonic
8	802.11ax HE20	36	5136.80	47.84	54.00	-6.16	V	Avg.	Pass	Partial_106/53RU	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Partial_106/53RU	Harmonic
9	802.11a	52	5116.74	47.63	54.00	-6.37	H	Avg.	Pass	-	Band Edge
	802.11a	52	15780.00	41.44	54.00	-12.56	H	Avg.	Pass	-	Harmonic
10	802.11a	60	5350.08	48.20	54.00	-5.80	H	Avg.	Pass	-	Band Edge
	802.11a	60	10600.00	43.03	54.00	-10.97	V	Avg.	Pass	-	Harmonic
11	802.11a	64	5350.10	50.69	54.00	-3.31	H	Avg.	Pass	-	Band Edge
	802.11a	64	15960.00	41.78	54.00	-12.22	H	Avg.	Pass	-	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	802.11ac VHT20	52	5101.66	47.60	54.00	-6.40	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	52	15780.00	41.65	54.00	-12.35	H	Avg.	Pass	-	Harmonic
13	802.11ac VHT20	60	5350.24	48.72	54.00	-5.28	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	60	10600.00	42.73	54.00	-11.27	V	Avg.	Pass	-	Harmonic
14	802.11ac VHT20	64	5350.24	50.66	54.00	-3.34	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	64	10640.00	47.25	74.00	-26.75	V	Peak	Pass	-	Harmonic
15	802.11ax HE20	64	5350.38	50.43	54.00	-3.57	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	64	10640.00	47.17	74.00	-26.83	V	Peak	Pass	Full RU	Harmonic
16	802.11ax HE20	64	5352.48	46.04	54.00	-7.96	H	Avg.	Pass	Partial_106/54RU	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Partial_106/54RU	Harmonic
17	802.11a	100	5467.15	65.01	68.20	-3.19	H	Peak	Pass	-	Band Edge

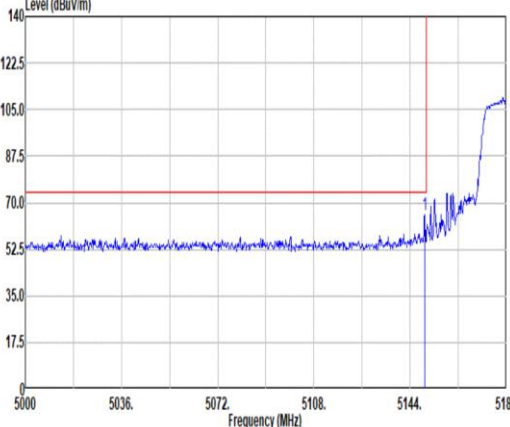
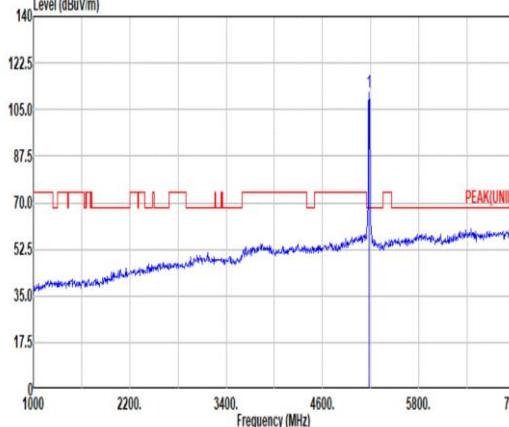
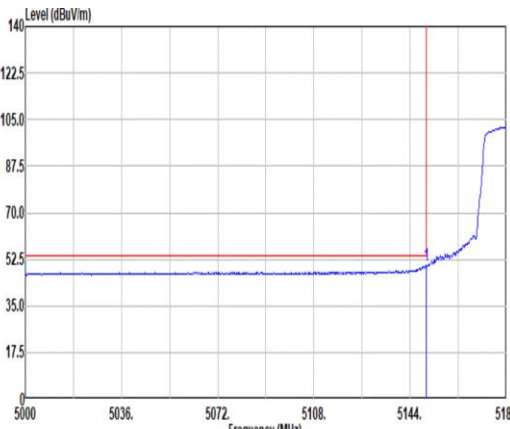
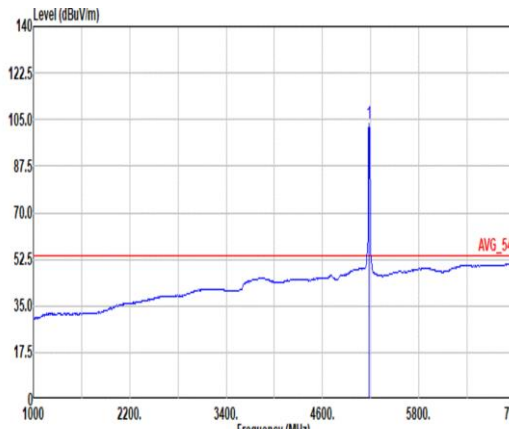


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
17	802.11a	100	11000.00	42.23	54.00	-11.77	H	Avg.	Pass	-	Harmonic
18	802.11a	116	5452.81	46.16	54.00	-7.84	H	Avg.	Pass	-	Band Edge
	802.11a	116	11160.00	46.08	54.00	-7.92	H	Avg.	Pass	-	Harmonic
19	802.11a	140	5728.60	62.83	68.20	-5.37	H	Peak	Pass	-	Band Edge
	802.11a	140	11400.00	40.61	54.00	-13.39	H	Avg.	Pass	-	Harmonic
20	802.11ac VHT20	100	5469.10	63.55	68.20	-4.65	H	Peak	Pass	-	Band Edge
	802.11ac VHT20	100	11000.00	43.28	54.00	-10.72	H	Avg.	Pass	-	Harmonic
21	802.11ac VHT20	116	5459.25	46.20	54.00	-7.80	V	Avg.	Pass	-	Band Edge
	802.11ac VHT20	116	11160.00	46.47	54.00	-7.53	H	Avg.	Pass	-	Harmonic
22	802.11ac VHT20	140	5725.87	62.91	68.20	-5.29	H	Peak	Pass	-	Band Edge
	802.11ac VHT20	140	17100.00	47.81	68.20	-20.39	H	Peak	Pass	-	Harmonic

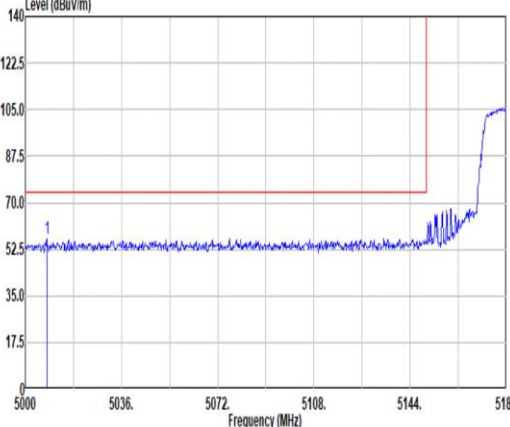
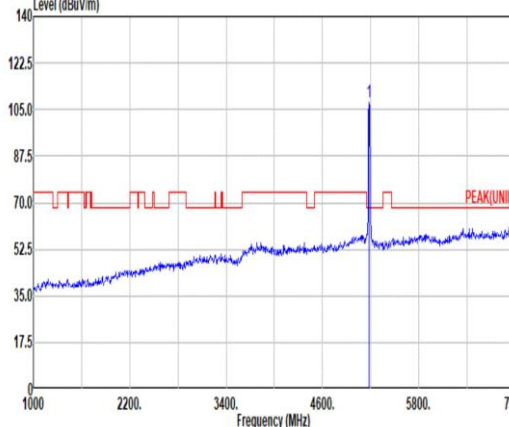
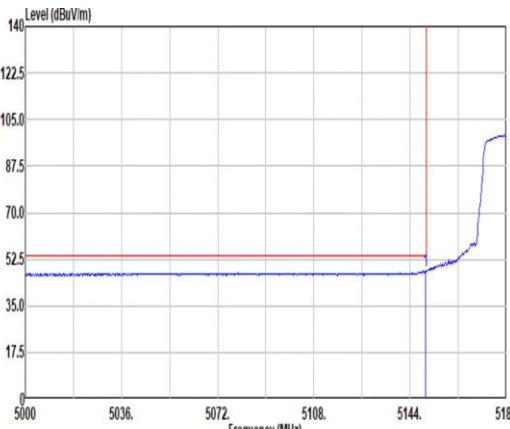
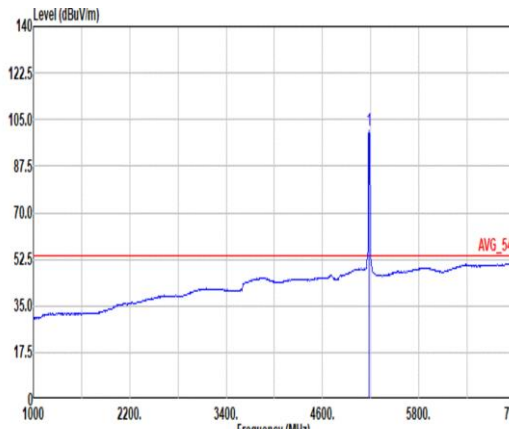


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
23	802.11ax HE20	100	5470.00	64.65	68.20	-3.55	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	100	11000.00	43.29	54.00	-10.71	H	Avg.	Pass	Full RU	Harmonic
24	802.11ax HE20	100	5459.95	43.45	54.00	-10.55	H	Avg.	Pass	Partial_106/53RU	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Partial_106/53RU	Harmonic
26	802.11a	144	5458.81	45.92	54.00	-8.08	V	Avg.	Pass	-	Band Edge
	802.11a	144	17160.00	57.19	68.20	-11.01	H	Peak	Pass	-	Harmonic
27	802.11ac VHT20	144	5459.59	46.02	54.00	-7.98	H	Avg.	Pass	-	Band Edge
	802.11ac VHT20	144	17160.00	58.87	68.20	-9.33	H	Peak	Pass	-	Harmonic
25	802.11a	100	42.61	32.77	40.00	-7.23	V	Peak	Pass	-	LF

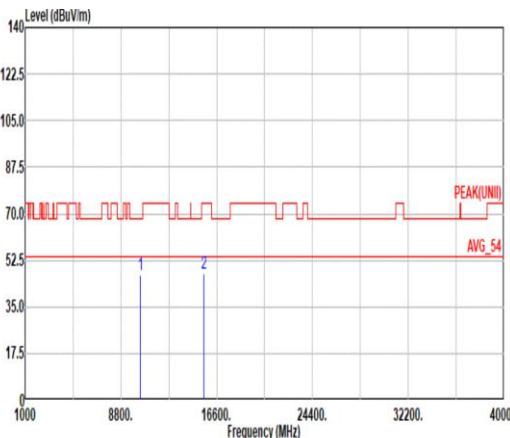
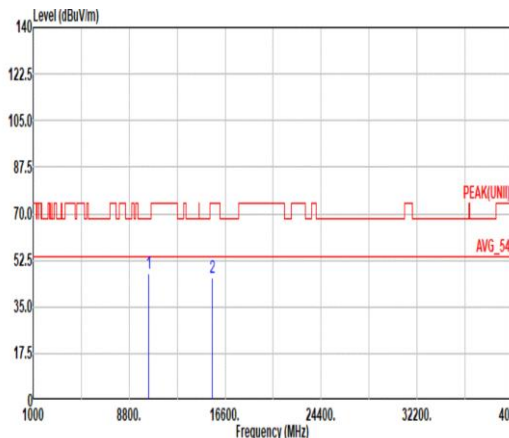


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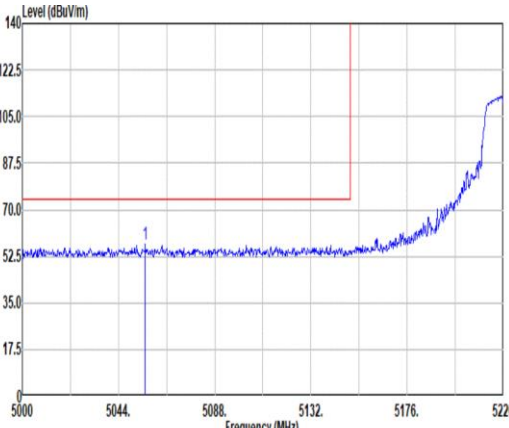
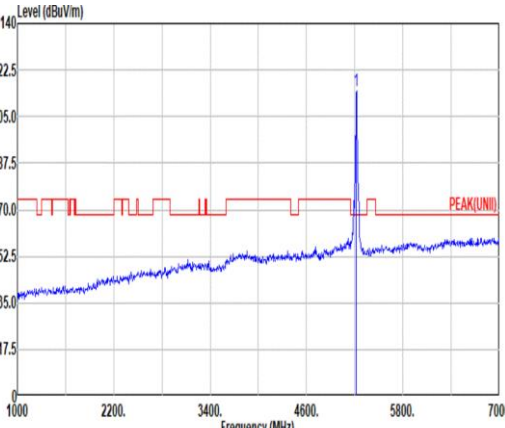
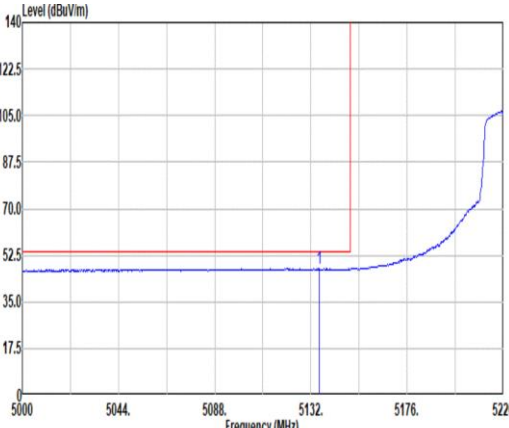
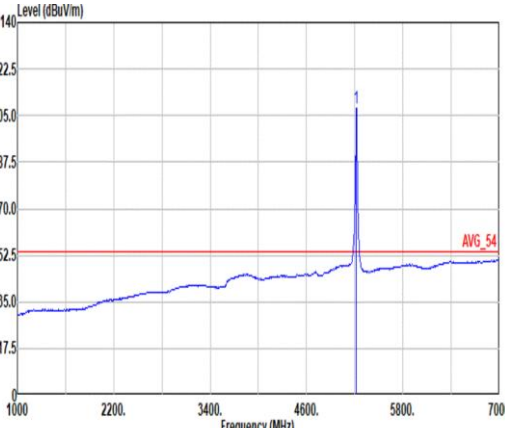


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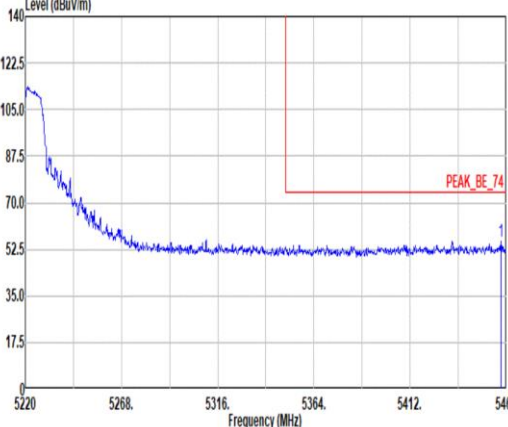
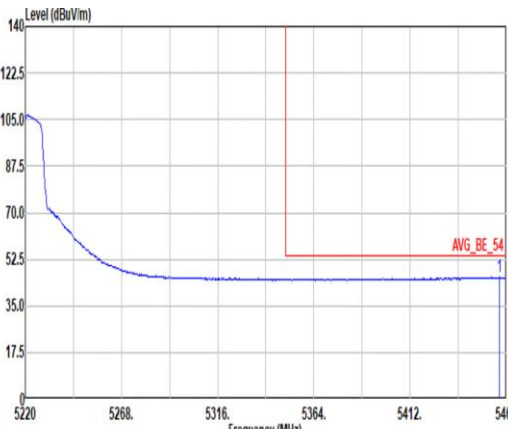


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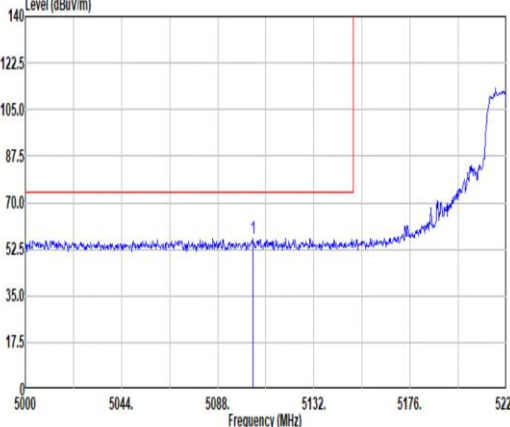
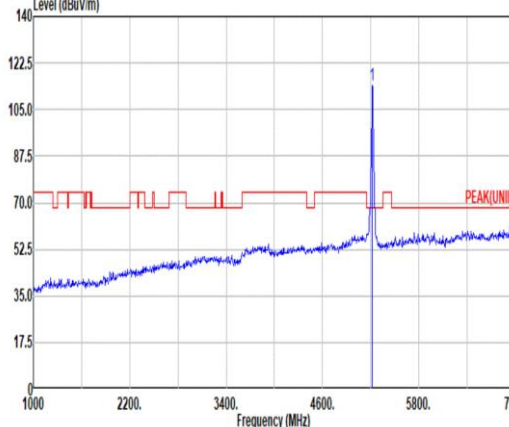
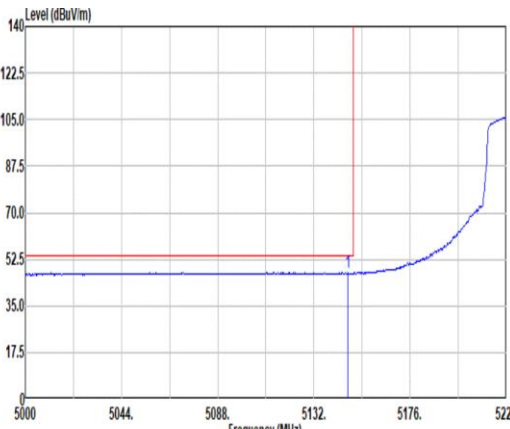
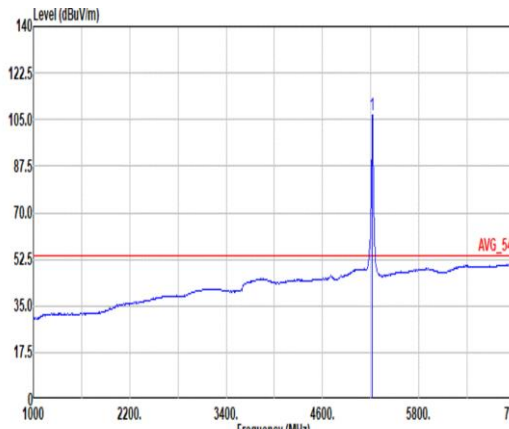


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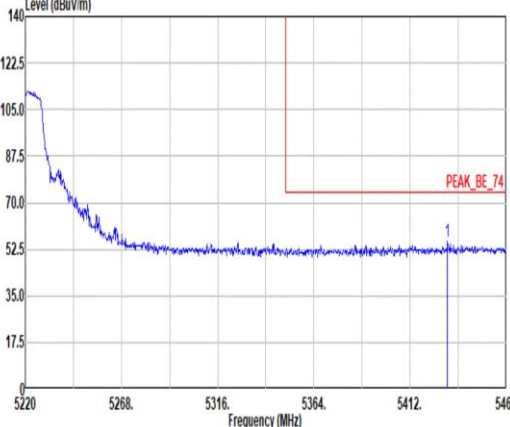
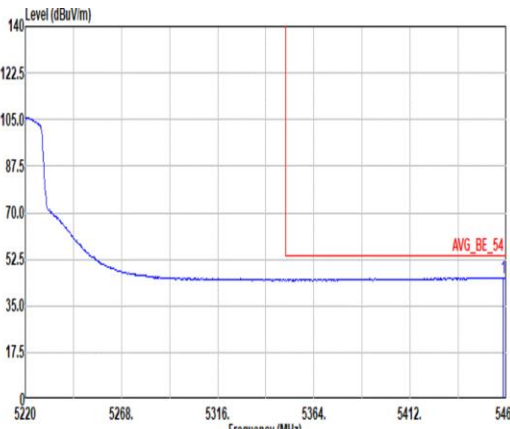


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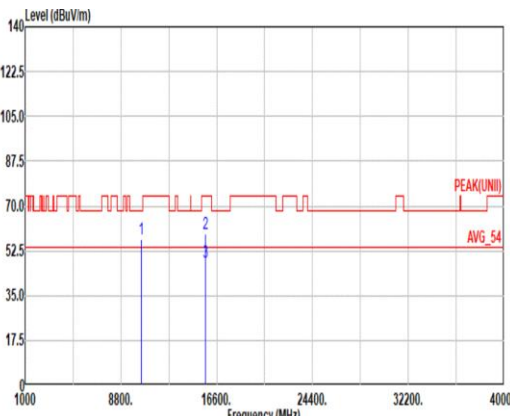
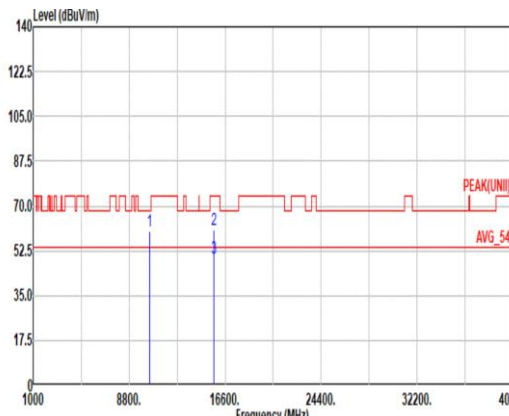


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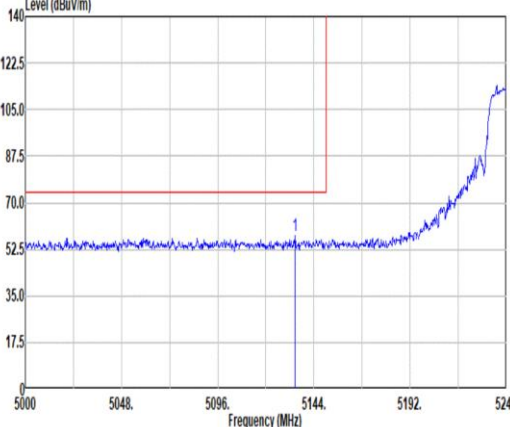
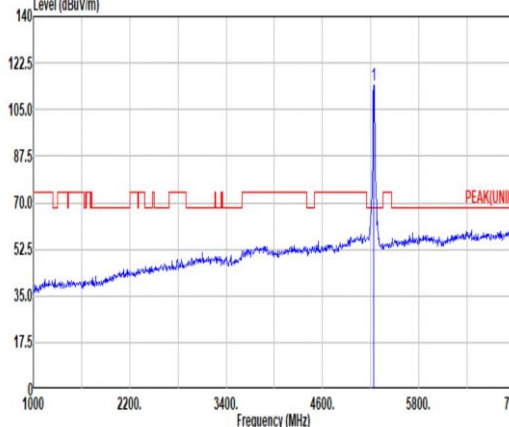
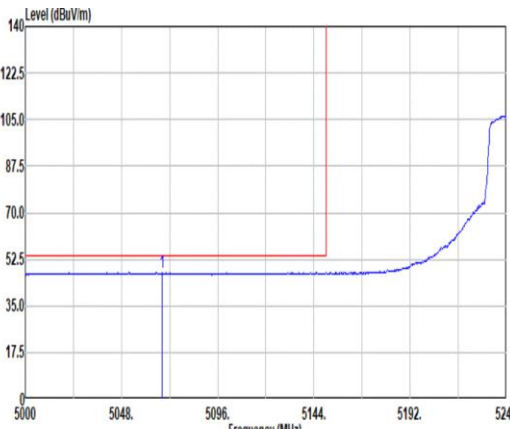
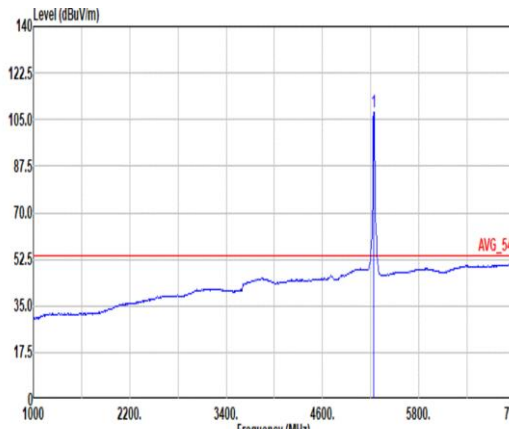


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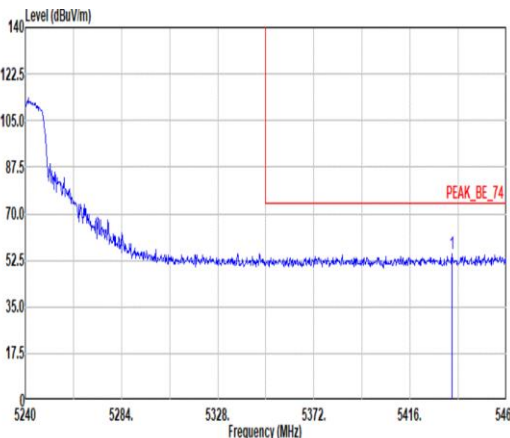
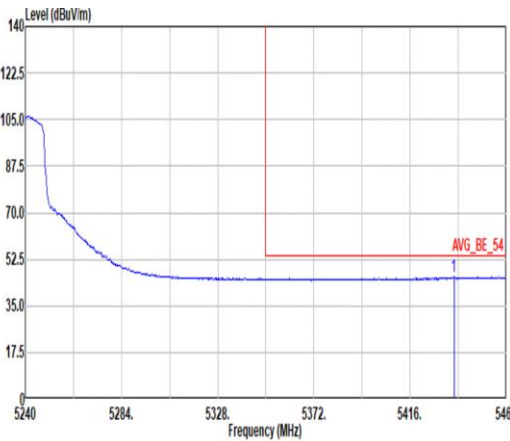


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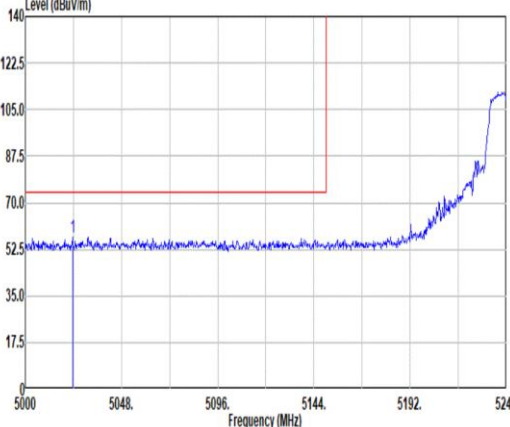
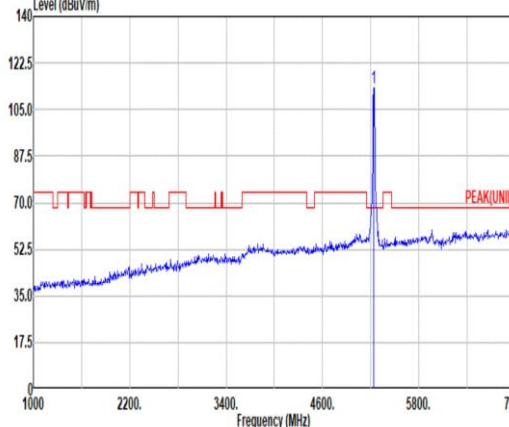
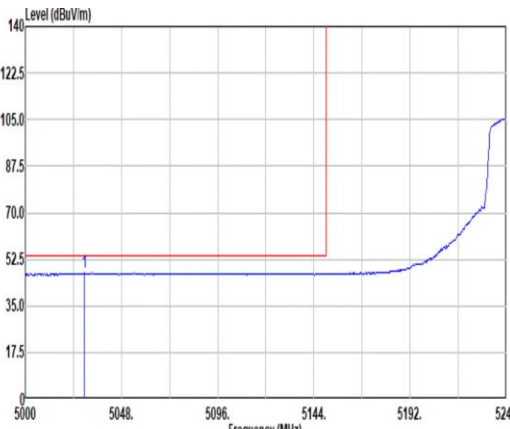
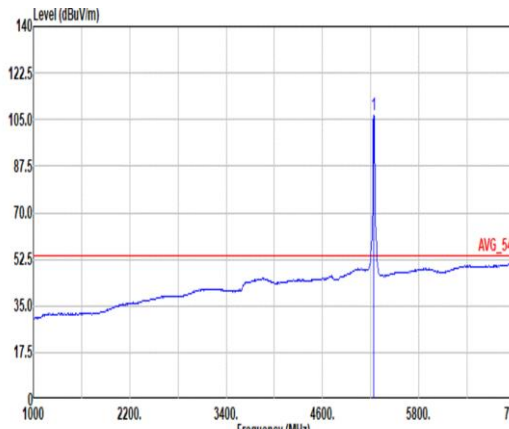


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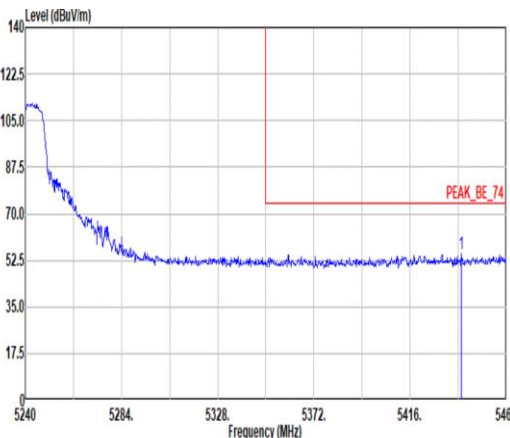
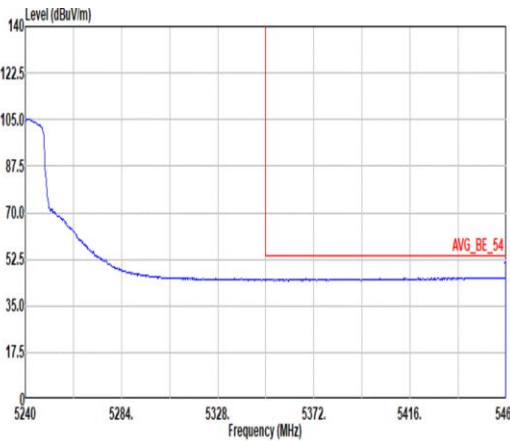


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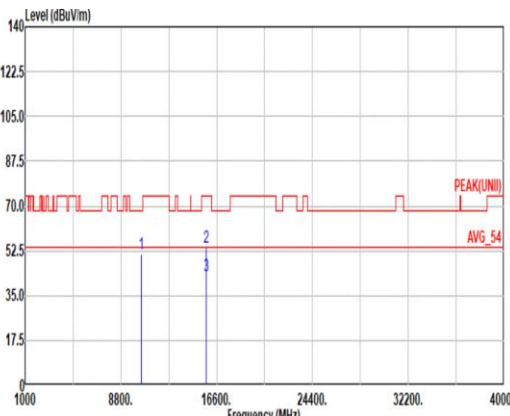
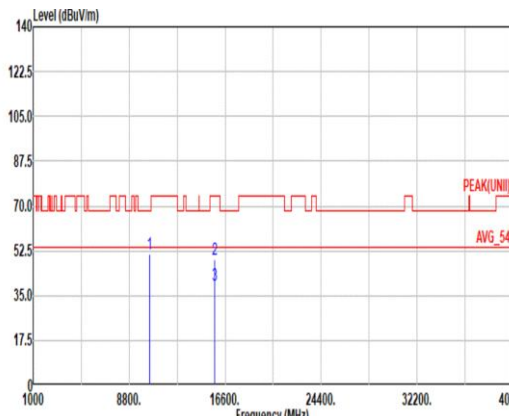


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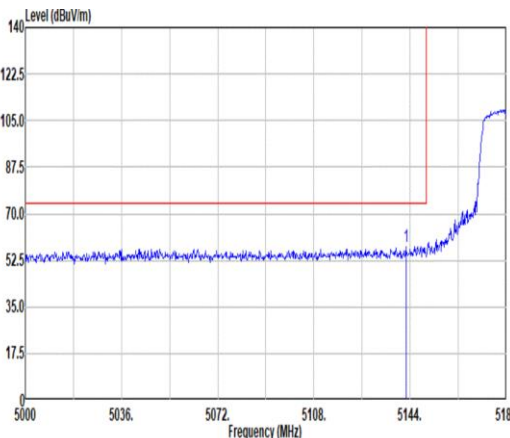
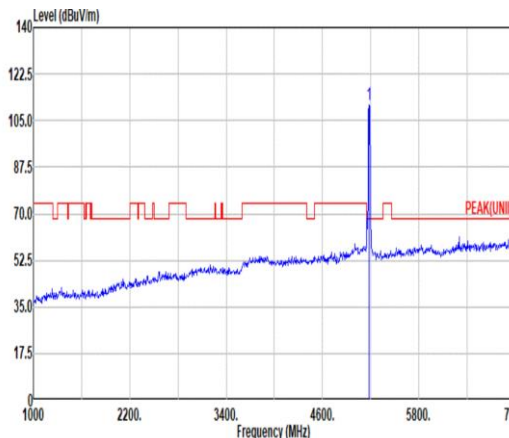
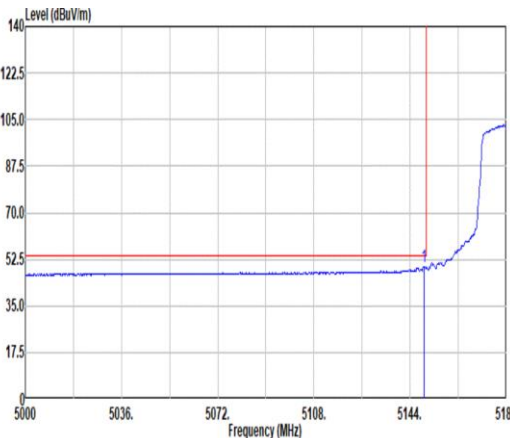
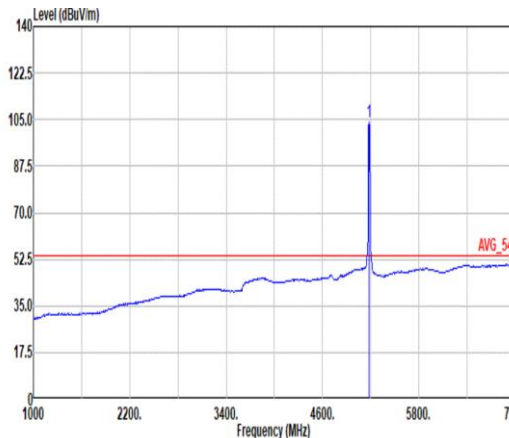


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Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5459.70</td><td>45.74</td><td>54.00</td><td>-8.26</td><td>39.18</td><td>33.10</td><td>10.31</td><td>36.85</td><td>0.00</td><td>205</td><td>128</td><td>AVERAGE</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	cm	deg	1	5459.70	45.74	54.00	-8.26	39.18	33.10	10.31	36.85	0.00	205	128	AVERAGE	Blank
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																				
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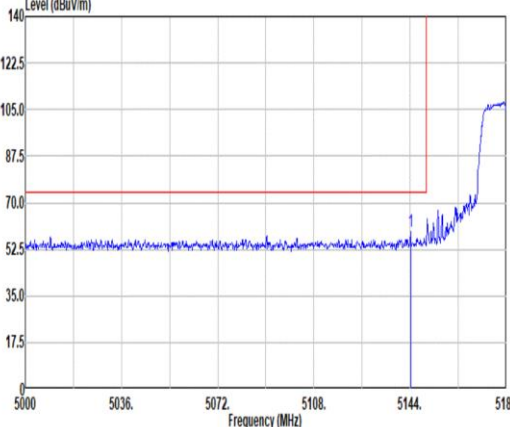
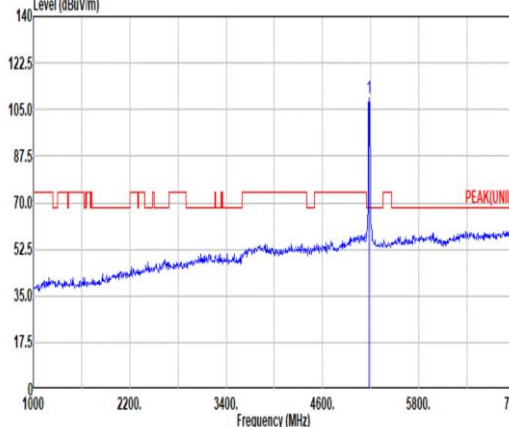
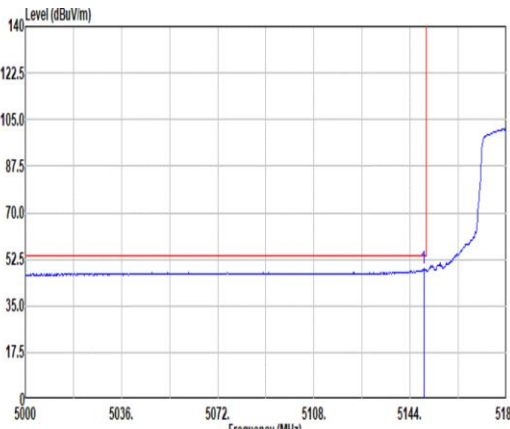
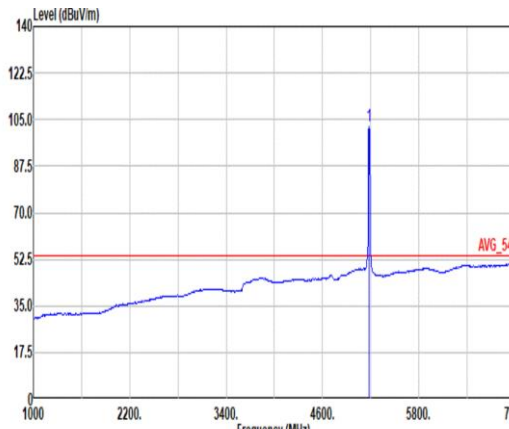


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Pol.	Horizontal	Vertical																																																																																																																																						
Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 HORIZONTAL <table><tr><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>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>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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 10480.00</td><td>51.50</td><td>68.20</td><td>-16.70</td><td>53.17</td><td>38.90</td><td>15.41</td><td>56.52</td><td>0.54</td><td>205</td><td>220</td><td>PEAK</td></tr><tr><td>2 15720.00</td><td>54.13</td><td>74.00</td><td>-19.87</td><td>52.48</td><td>38.14</td><td>18.89</td><td>56.20</td><td>0.82</td><td>203</td><td>154</td><td>PEAK</td></tr><tr><td>3 15720.00</td><td>42.69</td><td>54.00</td><td>-11.31</td><td>41.04</td><td>38.14</td><td>18.89</td><td>56.20</td><td>0.82</td><td>203</td><td>154</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	dB	cm	deg	1 10480.00	51.50	68.20	-16.70	53.17	38.90	15.41	56.52	0.54	205	220	PEAK	2 15720.00	54.13	74.00	-19.87	52.48	38.14	18.89	56.20	0.82	203	154	PEAK	3 15720.00	42.69	54.00	-11.31	41.04	38.14	18.89	56.20	0.82	203	154	Average	 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>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>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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 10480.00</td><td>51.42</td><td>68.20</td><td>-16.78</td><td>53.09</td><td>38.90</td><td>15.41</td><td>56.52</td><td>0.54</td><td>100</td><td>121</td><td>PEAK</td></tr><tr><td>2 15720.00</td><td>48.93</td><td>74.00</td><td>-25.07</td><td>47.28</td><td>38.14</td><td>18.89</td><td>56.20</td><td>0.82</td><td>292</td><td>162</td><td>PEAK</td></tr><tr><td>3 15720.00</td><td>38.84</td><td>54.00</td><td>-15.16</td><td>37.19</td><td>38.14</td><td>18.89</td><td>56.20</td><td>0.82</td><td>292</td><td>162</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	dB	cm	deg	1 10480.00	51.42	68.20	-16.78	53.09	38.90	15.41	56.52	0.54	100	121	PEAK	2 15720.00	48.93	74.00	-25.07	47.28	38.14	18.89	56.20	0.82	292	162	PEAK	3 15720.00	38.84	54.00	-15.16	37.19	38.14	18.89	56.20	0.82	292	162	Average
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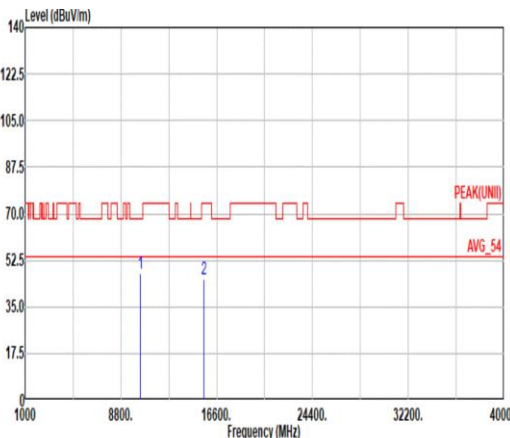
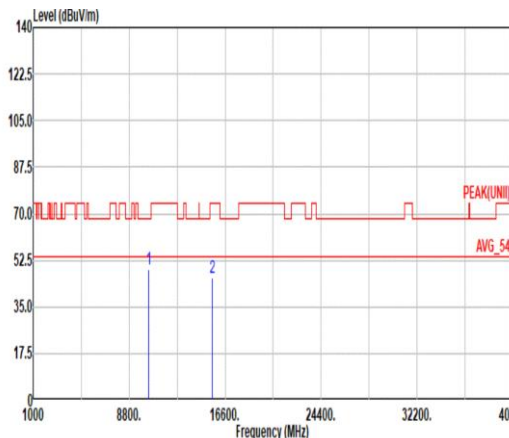


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Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</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>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>5142.38</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>51.31</td><td>33.18</td><td>10.11</td><td>37.06</td><td>0.00 177 344 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	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	5142.38	57.54	74.00	-16.46	51.31	33.18	10.11	37.06	0.00 177 344 PEAK	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT: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>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>5180.00</td><td>111.08</td><td>-----</td><td>-----</td><td>104.69</td><td>33.25</td><td>10.18</td><td>37.04</td><td>0.00 177 344 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	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	5180.00	111.08	-----	-----	104.69	33.25	10.18	37.04	0.00 177 344 PEAK
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Avg	 Site : 03CH13-HY Condition: AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SMT: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>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>5149.22</td><td>49.89</td><td>54.00</td><td>-4.11</td><td>43.62</td><td>33.20</td><td>10.13</td><td>37.06</td><td>0.00 177 344 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	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	5149.22	49.89	54.00	-4.11	43.62	33.20	10.13	37.06	0.00 177 344 AVERAGE	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SMT: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>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>5180.00</td><td>104.09</td><td>-----</td><td>-----</td><td>97.68</td><td>33.26</td><td>10.19</td><td>37.04</td><td>0.00 177 344 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	dB	dBuV	dB/m	dB	dB	dB	cm deg	1	5180.00	104.09	-----	-----	97.68	33.26	10.19	37.04	0.00 177 344 AVERAGE
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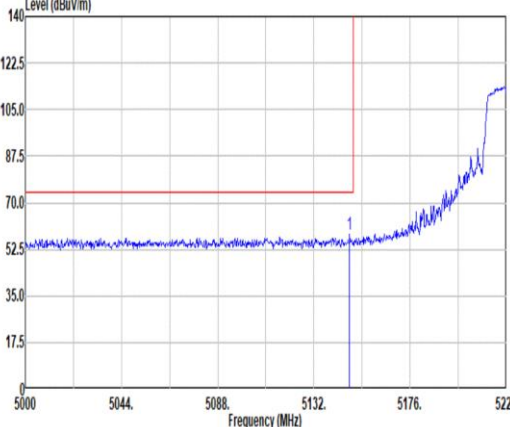
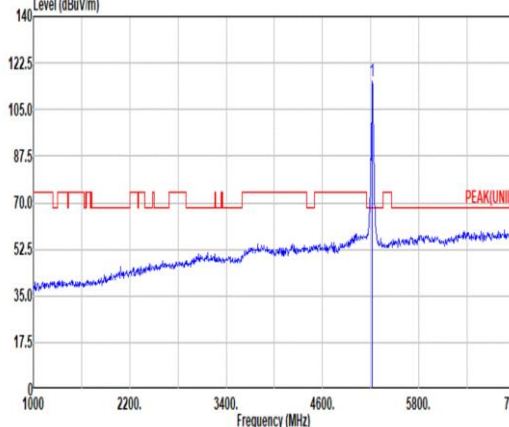
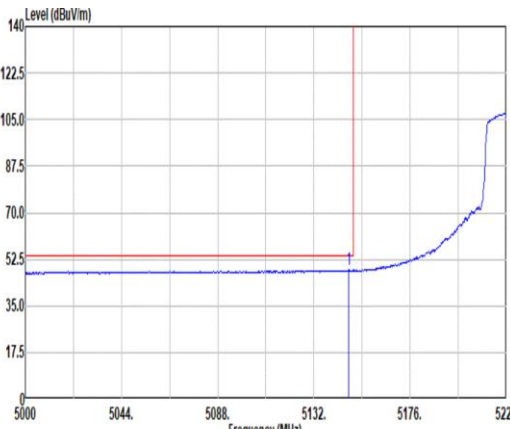
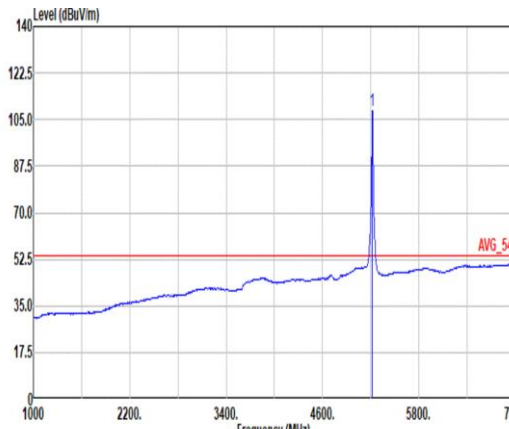


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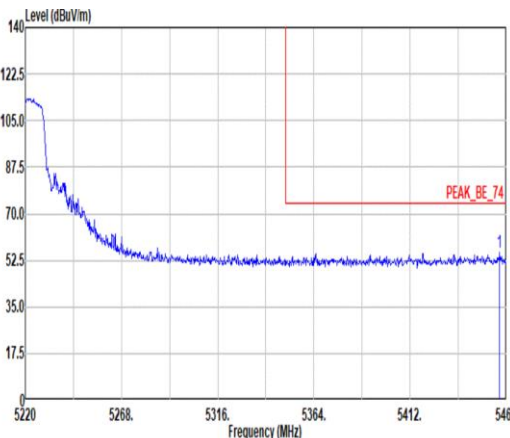
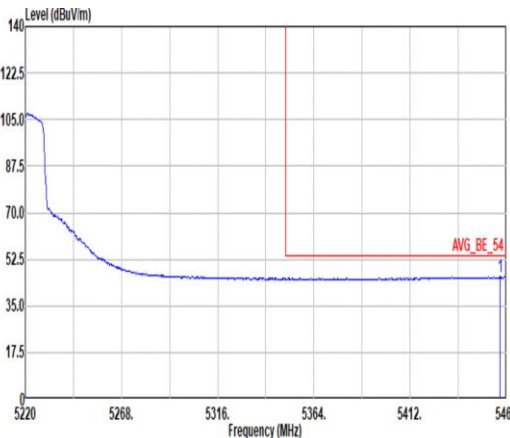


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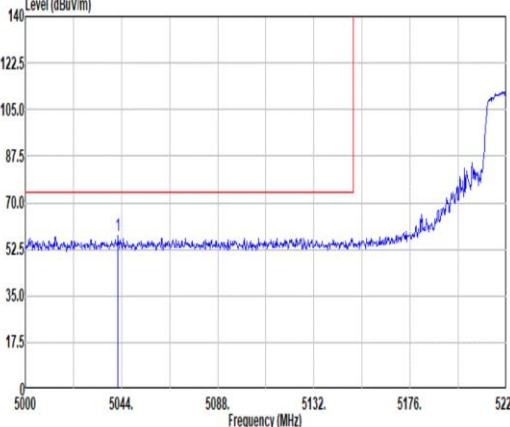
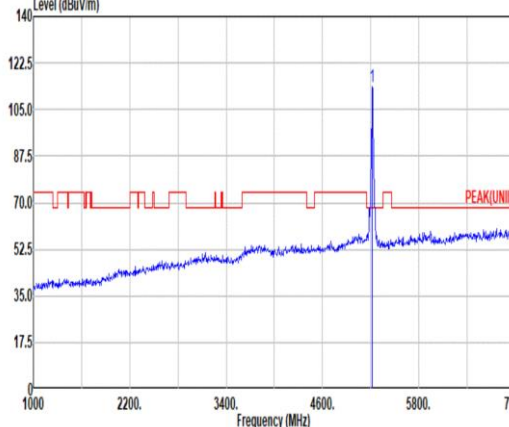
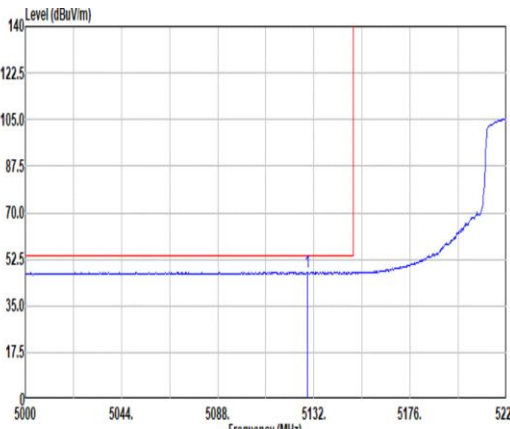
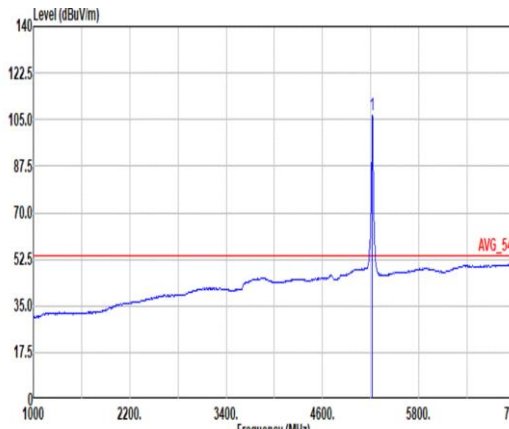


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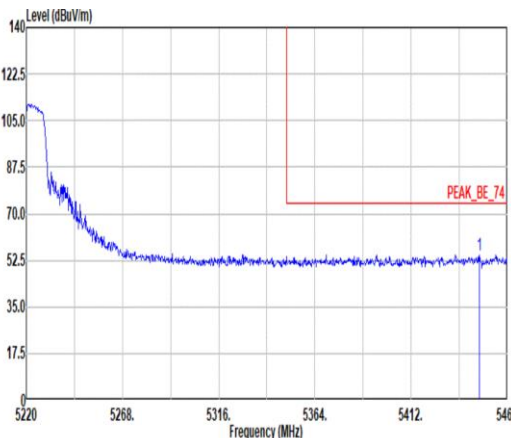
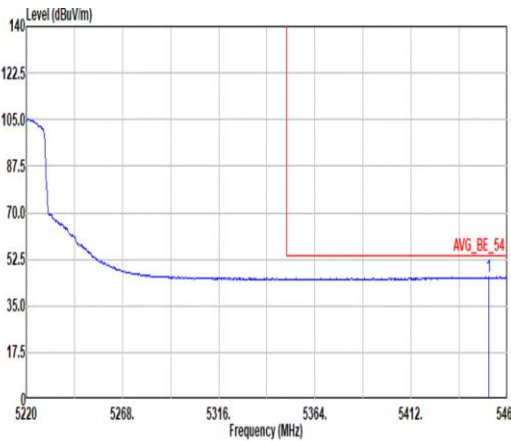


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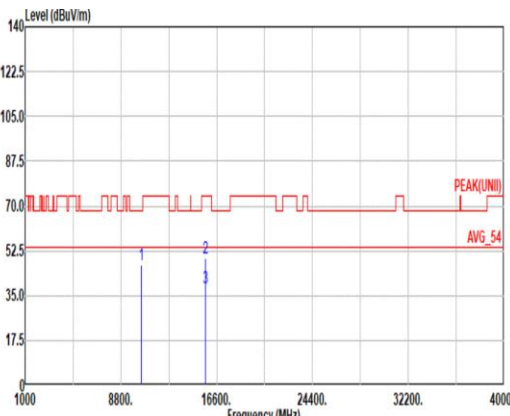
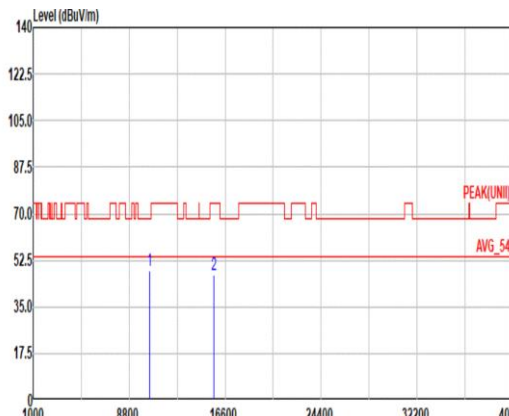


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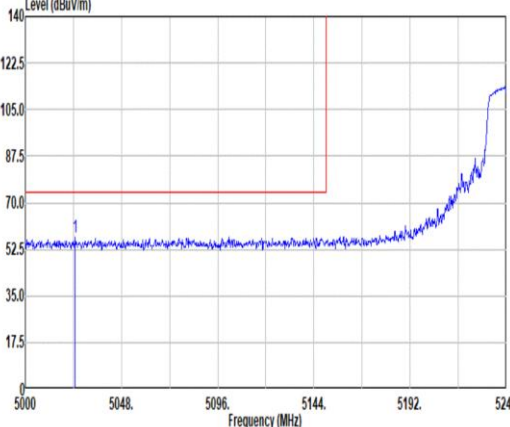
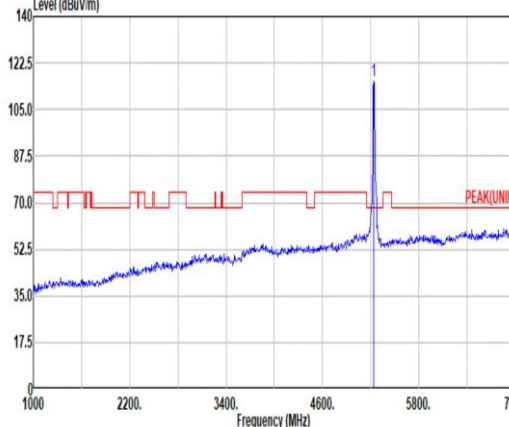
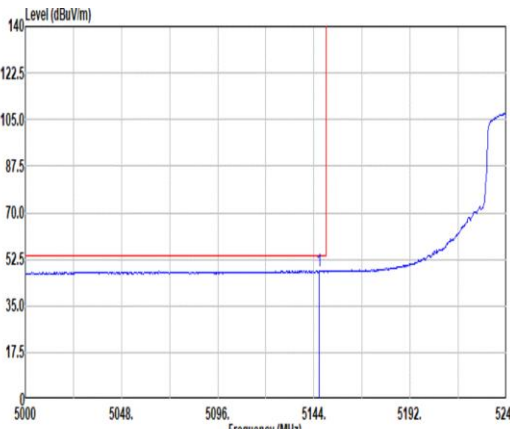
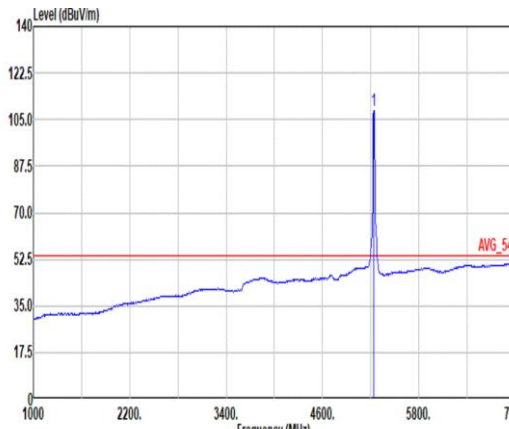


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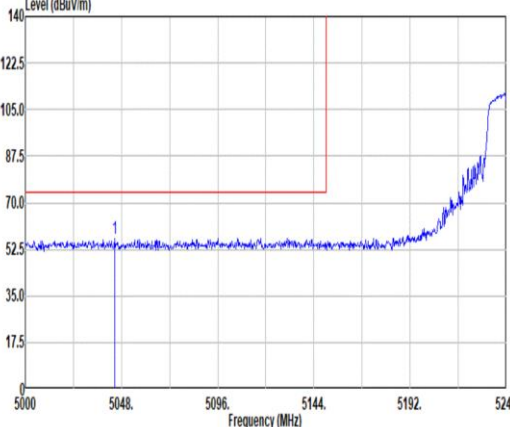
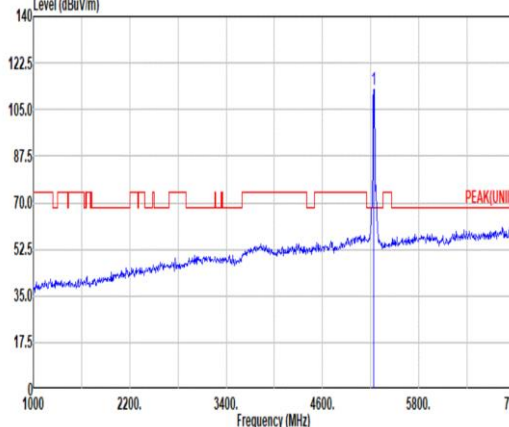
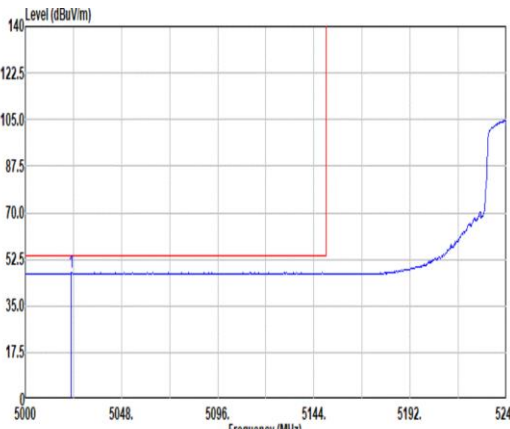
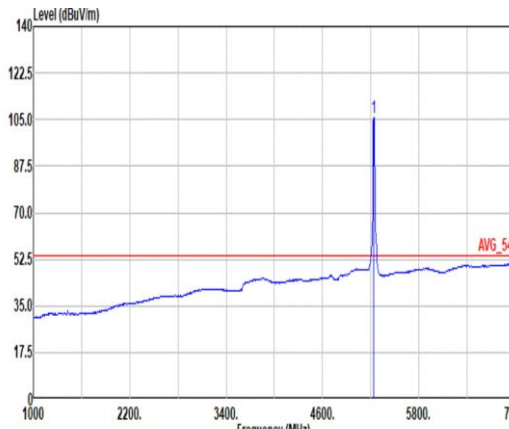


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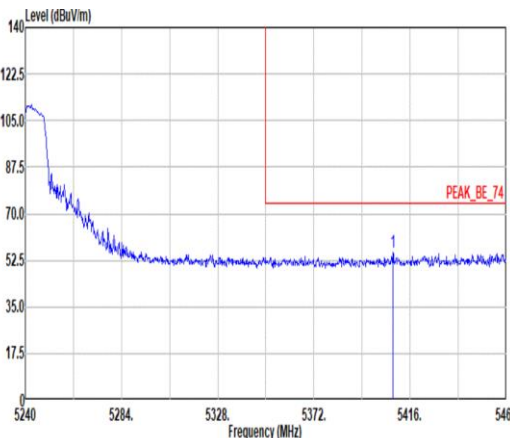
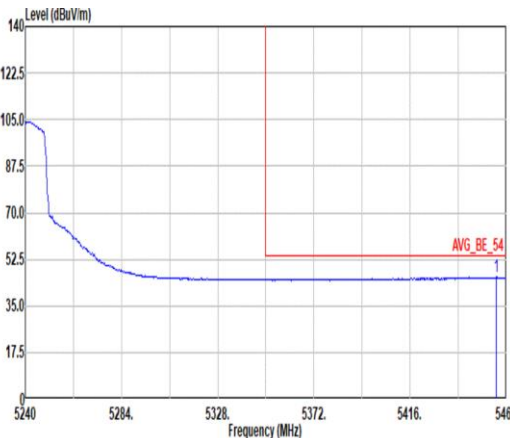


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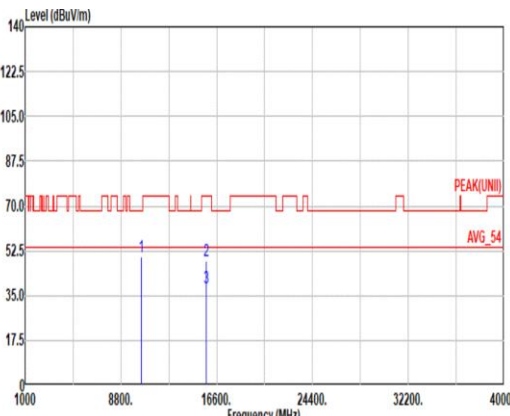
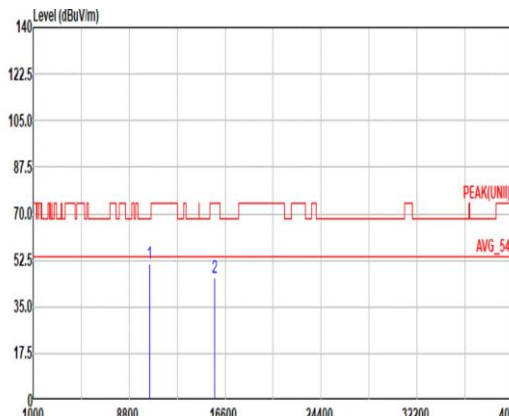


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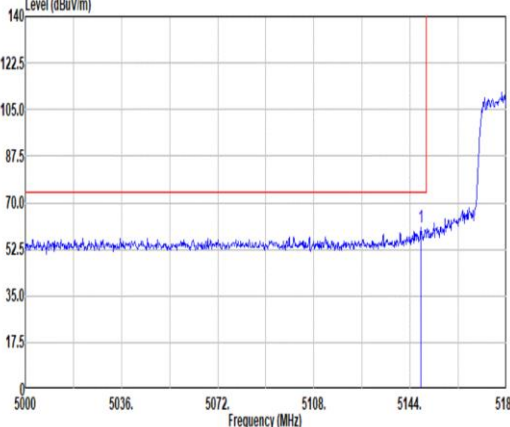
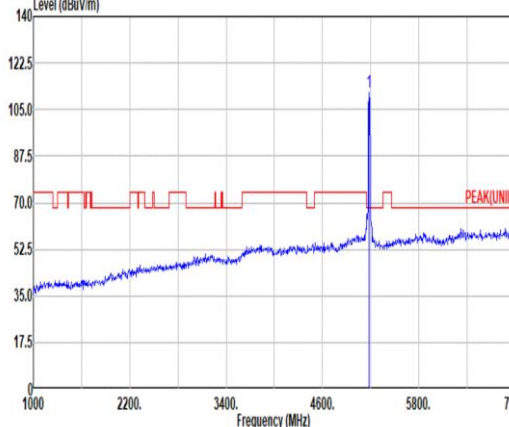
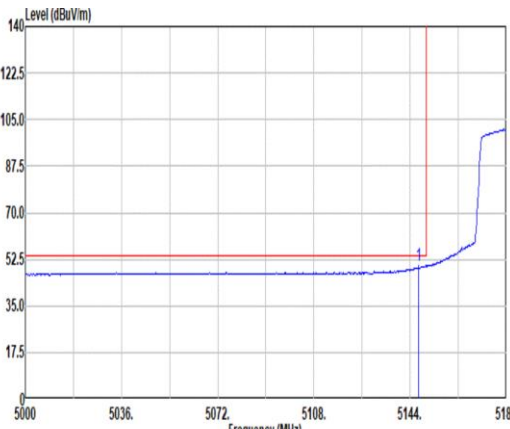
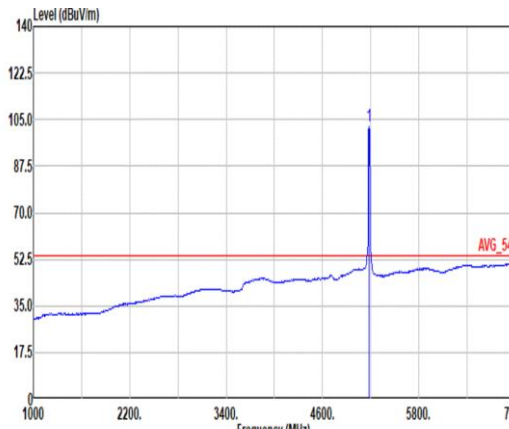


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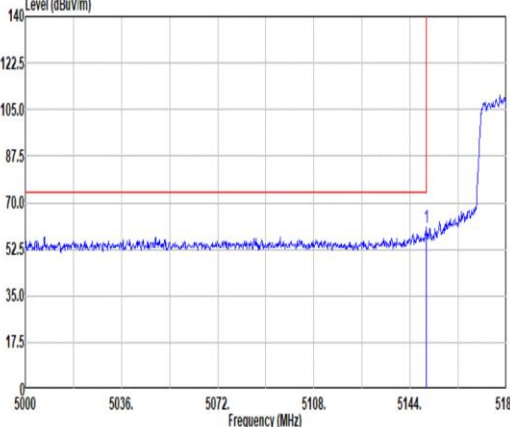
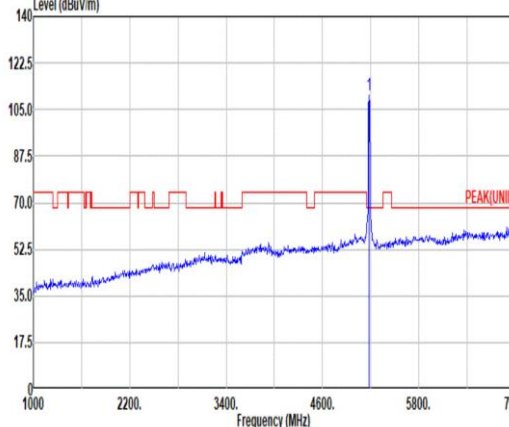
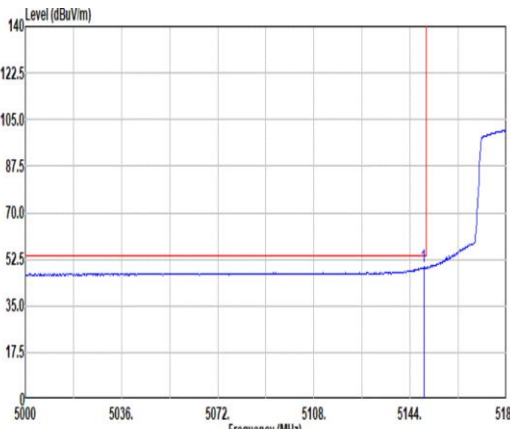
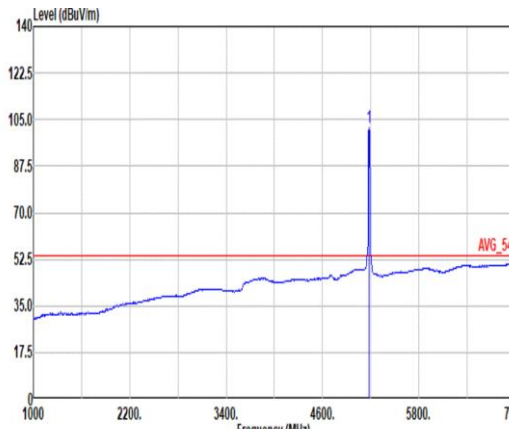


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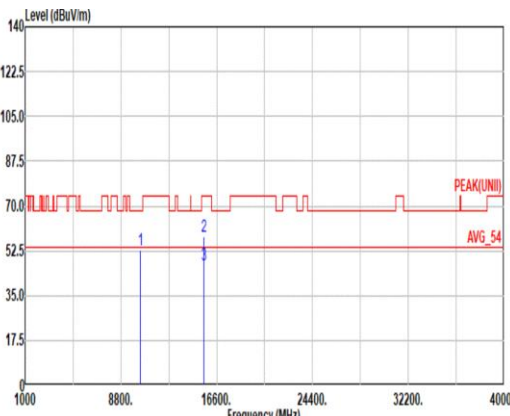
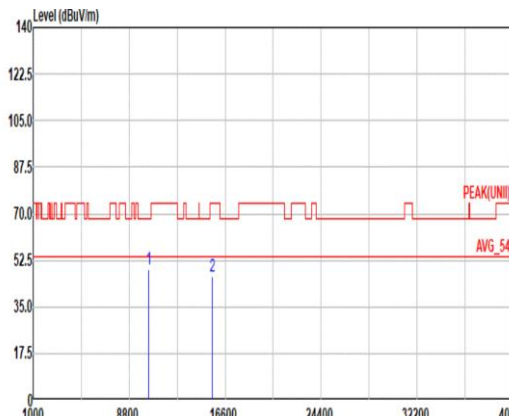


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Peak Avg	 Site : 03CH13-HY Condition: PEAK(UNII) 3m HORN_91280_1326 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</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>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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 10360.00</td><td>52.83</td><td>68.20</td><td>-15.37</td><td>54.65</td><td>38.98</td><td>15.35</td><td>56.69</td><td>0.54</td><td>200</td><td>152</td><td>PEAK</td></tr><tr><td>2 15540.00</td><td>58.16</td><td>74.00</td><td>-15.84</td><td>56.51</td><td>38.42</td><td>18.78</td><td>56.36</td><td>0.81</td><td>100</td><td>145</td><td>PEAK</td></tr><tr><td>3 15540.00</td><td>47.24</td><td>54.00</td><td>-6.76</td><td>45.59</td><td>38.42</td><td>18.78</td><td>56.36</td><td>0.81</td><td>100</td><td>145</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	dB	cm	deg	1 10360.00	52.83	68.20	-15.37	54.65	38.98	15.35	56.69	0.54	200	152	PEAK	2 15540.00	58.16	74.00	-15.84	56.51	38.42	18.78	56.36	0.81	100	145	PEAK	3 15540.00	47.24	54.00	-6.76	45.59	38.42	18.78	56.36	0.81	100	145	Average	 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>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>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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 10360.00</td><td>48.95</td><td>68.20</td><td>-19.25</td><td>50.77</td><td>38.98</td><td>15.35</td><td>56.69</td><td>0.54</td><td>300</td><td>148</td><td>PEAK</td></tr><tr><td>2 15540.00</td><td>46.72</td><td>74.00</td><td>-27.28</td><td>45.07</td><td>38.42</td><td>18.78</td><td>56.36</td><td>0.81</td><td>--</td><td>--</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	dB	cm	deg	1 10360.00	48.95	68.20	-19.25	50.77	38.98	15.35	56.69	0.54	300	148	PEAK	2 15540.00	46.72	74.00	-27.28	45.07	38.42	18.78	56.36	0.81	--	--	PEAK
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