



FCC RADIO TEST REPORT

FCC ID : 2A3G3-WMU721X
Equipment : Wi-Fi 802.11ax 2x2 Tri-band Module
Brand Name : Emwicon
Model Name : WMU721X (X=2,3,4,5,6,7)
Applicant : Emwicon Corporation
7F.-5, No. 258, Liancheng Rd., Zhonghe Dist.,
New Taipei City 235, Taiwan (R.O.C.)
Manufacturer : Emwicon Corporation
7F.-5, No. 258, Liancheng Rd., Zhonghe Dist.,
New Taipei City 235, Taiwan (R.O.C.)
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 16, 2024 and testing was performed from Jun. 14, 2024 to Sep. 27, 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
FR450901E	01	Initial issue of report	Oct. 15, 2024
FR450901E	02	Revise Antenna information This report is an updated version, replacing the report issued on Oct. 15, 2024.	Oct. 25, 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	0.20 dB under the limit at 11490.00 MHz
3.5	15.207	AC Conducted Emission	Pass	15.20 dB under the limit at 0.18 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:

1. 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.
2. The purpose of different model name is for connector and interface.

Reviewed by: Keven Cheng

Report Producer: Mila Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and Wi-Fi 6GHz 802.11ax.
Sample 1	WMU7212
Sample 2	WMU7213
Sample 3	WMU7214-U
Sample 4	WMU7214-P
Sample 5	WMU7215-U
Sample 6	WMU7215-P
Sample 7	WMU7216-U
Sample 8	WMU7216-P
Sample 9	WMU7217-U
Sample 10	WMU7217-P
Antenna Type	Dipole Antenna: <Model: RFA-27-H60-B-C1035-1> <Model: RFA-27-H60-B-C1035-4> <Model: RFA-27-C2-B-C1035-1> <Model: RFA-27-C2-B-C1035-4> <Model: ADT7352> <Model: RFA-27-C55-U-B70-1> <Model: RFA-27-C55-U-B70-4> <Model: RFA-27-AP152R-C1035> <Model: RFA-27-AP152R-4BC1035> <Model: RFA-27-JP326-C1035> <Model: RFA-27-JP326-4BC1035> PCB Antenna: <Model: ATB7214>

Antenna information		
5725 MHz ~ 5850 MHz	Antenna Model Name	Peak Gain (dBi)
	RFA-27-H60-B-C1035-1	<Ant. 0>: 3.73 <Ant. 1>: 3.73
	RFA-27-H60-B-C1035-4	<Ant. 0>: 3.73 <Ant. 1>: 3.73
	RFA-27-C2-B-C1035-1	<Ant. 0>: 2.84 <Ant. 1>: 2.84
	RFA-27-C2-B-C1035-4	<Ant. 0>: 2.84 <Ant. 1>: 2.84
	RFA-27-C55-U-B70-1	<Ant. 0>: 4.19 <Ant. 1>: 4.19
	RFA-27-C55-U-B70-4	<Ant. 0>: 4.19 <Ant. 1>: 4.19
	RFA-27-JP326-C1035	<Ant. 0>: 4.34 <Ant. 1>: 4.34
	RFA-27-JP326-4BC1035	<Ant. 0>: 4.34 <Ant. 1>: 4.34
	RFA-27-AP152R-C1035	<Ant. 0>: 4.13 <Ant. 1>: 4.13
	RFA-27-AP152R-4BC1035	<Ant. 0>: 4.13 <Ant. 1>: 4.13
	ATD7352	<Ant. 0>: 3.73 <Ant. 1>: 3.73
	ATB7214	<Ant. 0>: 4.92 <Ant. 1>: 4.92

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The Sample 1~10 has identical PCB layout only path loss difference & the sample 3~10 have same trace design only Connector is difference ,above is declared by manufacturer



1.1.1 Antenna Directional Gain

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 0 (dBi)	Ant 1 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	4.92	4.92	4.92	7.93	0.00	1.93

Calculation example:

If a device has two antenna, $G_{ANT0} = 4.92\text{dBi}$; $G_{ANT1} = 4.92\text{dBi}$

Directional gain of power measurement = $\max(4.92, 4.92) + 0 = 4.92$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(4.92 \text{ dBi} / 20)} + 10^{(4.92 \text{ dBi} / 20)} \right]^2 \right\} / 2 \}$$
$$= 7.93 \text{ dBi}$$

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

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

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, 03CH16-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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
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
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80 and 802.11ax HE80.

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.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps

MIMO Mode

Modulation	Data Rate
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Adapter for Sample 1
Remark: - For Conducted test items, Sample 1~10 are verified and the worst case is Sample 9. The report only performed Sample 9 test results. - For Radiated spurious emissions, tests were performed with high-gain antennas in dipole & PCB antenna. - For Radiated Test Cases, the tests were performed with Sample 1, 2, 7, and 8.	

<Sample 1>
MIMO <Ant. 0+1>

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

<Sample 2>
MIMO <Ant. 0+1>

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

<Sample 7>
<Ant. 0>

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

<Ant. 1>

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

MIMO <Ant. 0+1>

Ch. #		Band IV : 5725-5850 MHz			
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80	802.11ax HE20
L	Low	149	151	-	149
M	Middle	157	-	155	-
H	High	165	159	-	-

<Sample 8>

<Ant. 0>

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

<Ant. 1>

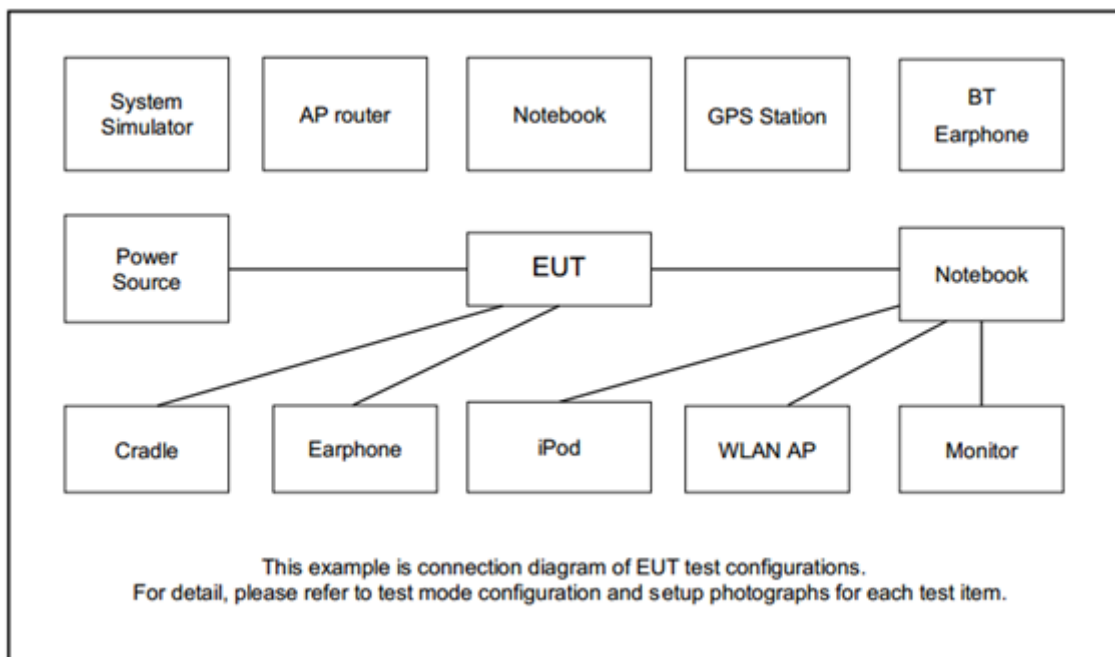
Ch. #		Band IV : 5725-5850 MHz
		802.11a
L	Low	149
M	Middle	157
H	High	165

MIMO <Ant. 0+1>

Ch. #		Band IV : 5725-5850 MHz			
		802.11ac VHT20	802.11ac VHT40	802.11ac VHT80	802.11ax HE20
L	Low	149	151	-	-
M	Middle	157	-	155	157
H	High	165	159	-	-

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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Adapter	Sunward	AD36AM0506OQ	FCC DoC	N/A	Unshielded, 1.2m
5.	Fixture	AAEON	UPS-APLC2-A20-0432	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “RTL882C_USB_MP_Package_ALPHA_v.2.0.30” 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.

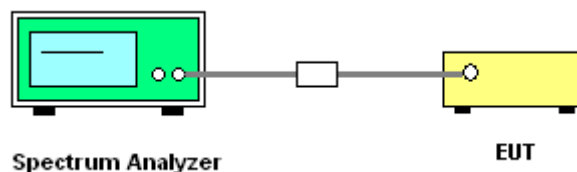
3.1.2 Measuring Instruments

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.

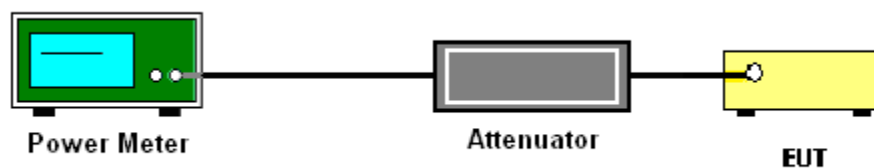
3.2.3 Test Procedures

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

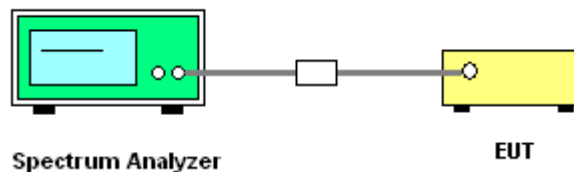
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW ≥ 1 MHz.
 - Add $10 \log(500 \text{ kHz/RBW})$ 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. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

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.

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

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.

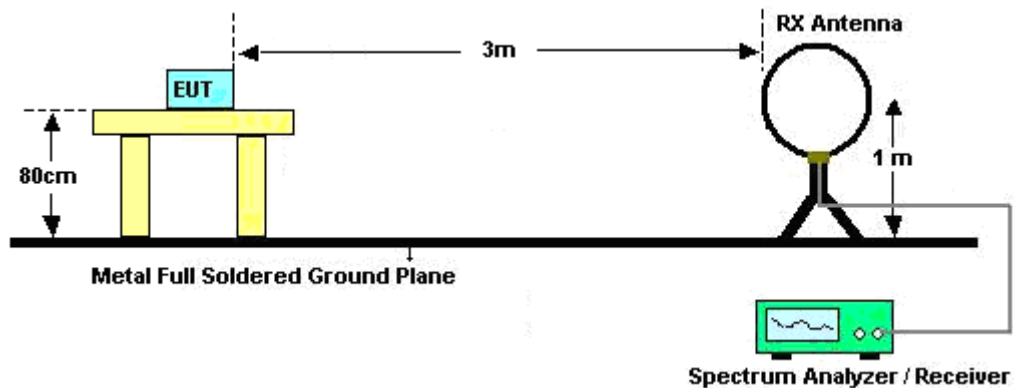
3.4.3 Test Procedures

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.

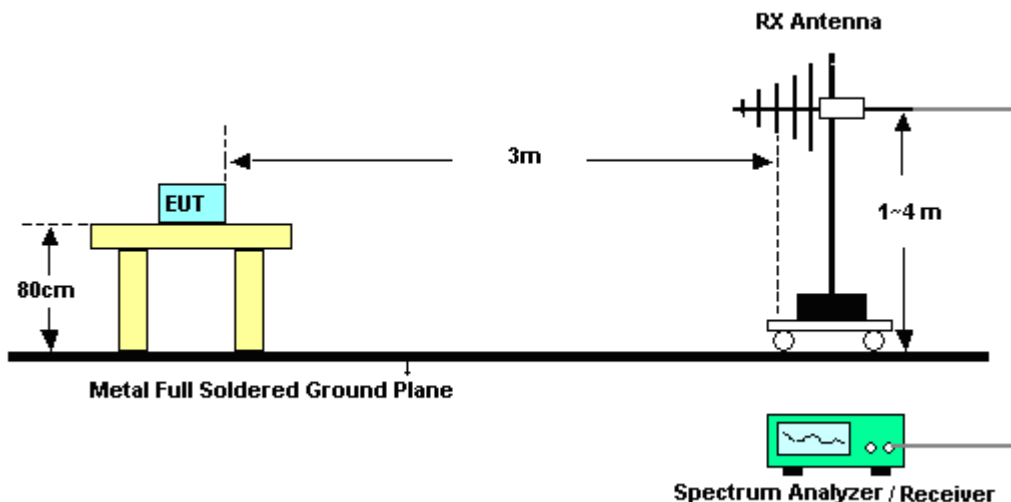
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

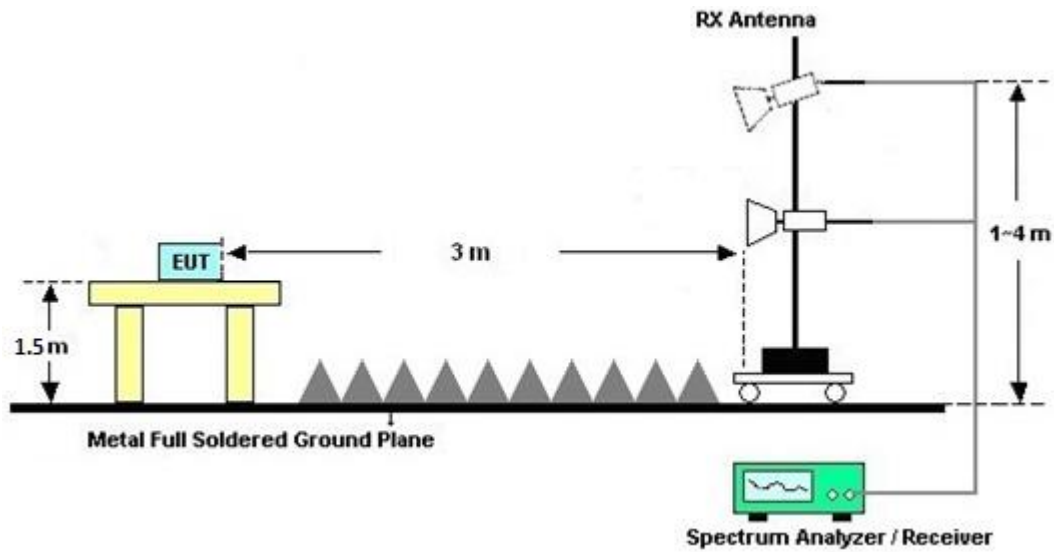
For radiated emissions below 30MHz



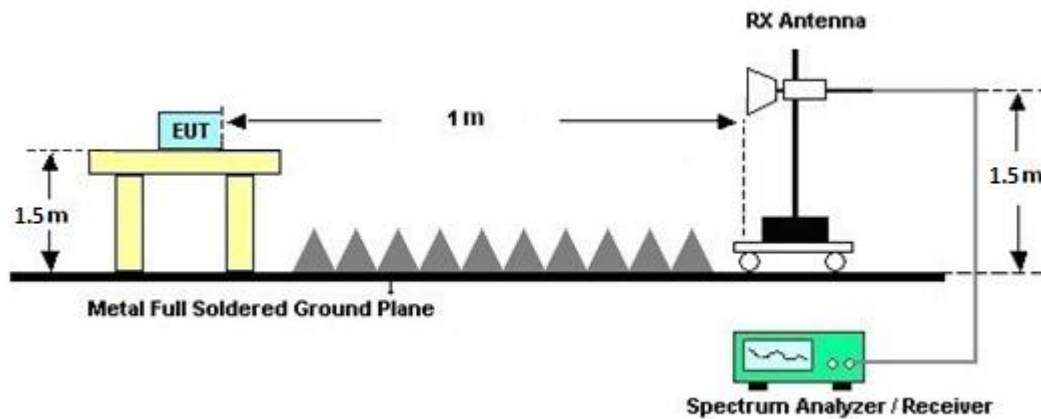
For radiated emissions from 30MHz to 1GHz



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.

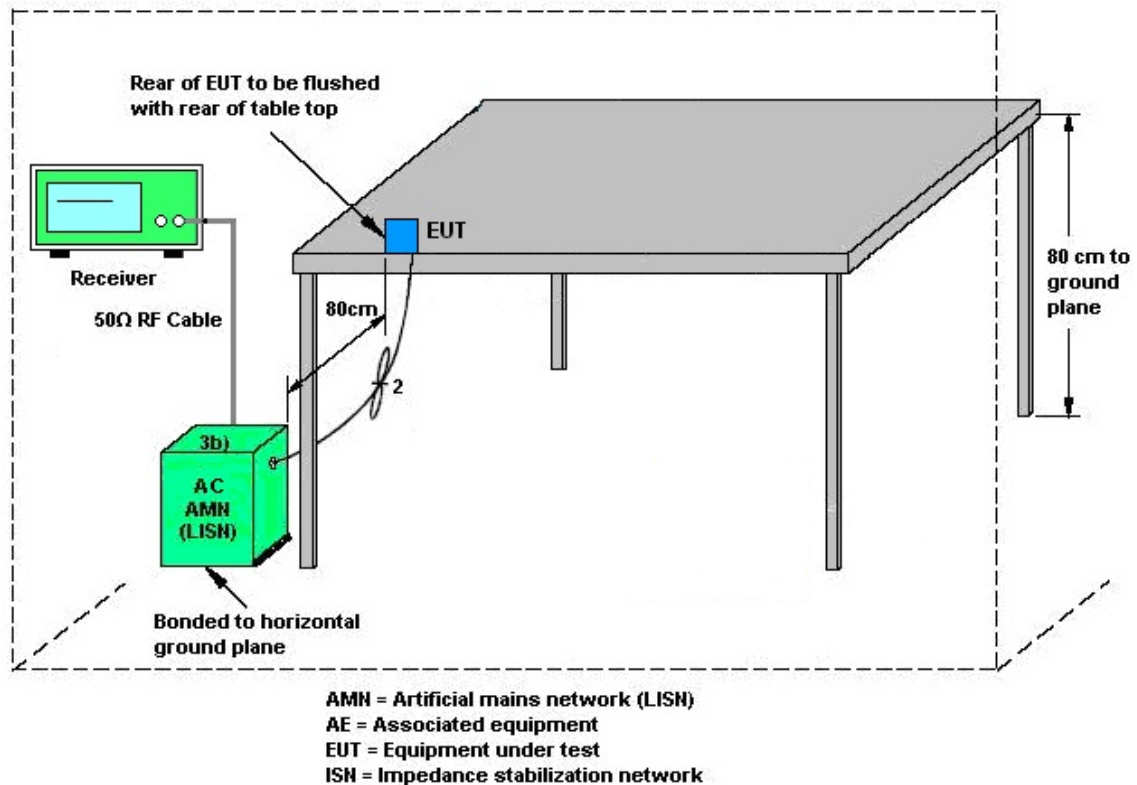
3.5.2 Measuring Instruments

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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 05, 2024~ Sep. 10, 2024	Sep. 11, 2024	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Sep. 11, 2024~ Sep. 27, 2024	Aug. 28, 2025	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2023	Aug. 05, 2024~ Sep. 27, 2024	Nov. 23, 2024	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 04, 2023	Aug. 05, 2024~ Sep. 27, 2024	Dec. 03, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 07, 2023	Aug. 05, 2024~ Sep. 27, 2024	Oct. 06, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Aug. 05, 2024~ Sep. 27, 2024	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Aug. 05, 2024~ Sep. 27, 2024	Jul. 01, 2025	Radiation (03CH16-HY)
DC Power Supply	GW Instek	GPE-2323	GEU810968	0V~64V ; 0A~6A	Apr. 29, 2024	Aug. 05, 2024~ Sep. 27, 2024	Apr. 28, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 07, 2023	Aug. 05, 2024~ Sep. 27, 2024	Dec. 06, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 25, 2023	Aug. 05, 2024~ Sep. 27, 2024	Dec. 24, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Aug. 05, 2024~ Sep. 27, 2024	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 15, 2024	Aug. 05, 2024~ Sep. 27, 2024	Jan. 14, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Aug. 05, 2024~ Sep. 27, 2024	Jun. 27, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN27	6.75GHz High Pass Filter	Nov. 13, 2023	Aug. 05, 2024~ Sep. 27, 2024	Nov. 12, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Aug. 05, 2024~ Sep. 27, 2024	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 08, 2023	Aug. 05, 2024~ Aug. 06, 2024	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 07, 2024	Aug. 07, 2024~ Sep. 27, 2024	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40GHz	Jan. 02, 2024	Aug. 05, 2024~ Sep. 27, 2024	Jan. 01, 2025	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Aug. 05, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Aug. 05, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 05, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 05, 2024~ Sep. 27, 2024	N/A	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jun. 14, 2024~ Sep. 09, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	Jun. 14, 2024~ Sep. 09, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jun. 14, 2024~ Sep. 09, 2024	Sep. 11, 2024	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jul. 10, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 10, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Jul. 10, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jul. 10, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jul. 10, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jul. 10, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jul. 10, 2024	Sep. 19, 2024	Conduction (CO07-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% ($U = 2Uc(y)$)	4.50 dB
--	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50 dB
--	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2024/6/14~2024/9/9	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	1	149	5745	25.92	22.28	38.96	39.82	16.32	16.33	0.5	Pass
11a	6Mbps	1	157	5785	21.18	21.63	44.58	39.41	16.35	16.33	0.5	Pass
11a	6Mbps	1	165	5825	19.73	20.33	37.12	38.63	16.33	16.33	0.5	Pass

U-NII-3 MIMO												
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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
VHT20	MCS0	2	149	5745	28.02	28.07	44.38	46.01	17.40	17.33	0.5	Pass
VHT20	MCS0	2	157	5785	27.02	28.72	43.97	46.26	17.31	17.54	0.5	Pass
VHT20	MCS0	2	165	5825	25.57	27.47	44.72	44.54	17.58	17.34	0.5	Pass
VHT40	MCS0	2	151	5755	47.05	44.46	90.22	92.30	36.31	36.30	0.5	Pass
VHT40	MCS0	2	159	5795	45.05	48.05	90.85	92.19	36.32	36.32	0.5	Pass
VHT80	MCS0	2	155	5775	76.36	76.24	184.93	191.55	76.37	76.11	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 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	149	5745	19.50	16.50		30.00	30.00	4.92	4.92	Pass
11a	6Mbps	1	157	5785	19.90	17.30		30.00	30.00	4.92	4.92	Pass
11a	6Mbps	1	165	5825	19.60	15.30		30.00	30.00	4.92	4.92	Pass

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HT20	MCS0	2	149	5745	18.20	16.90	20.61	30.00		4.92		Pass
HT20	MCS0	2	157	5785	17.60	16.20	19.97	30.00		4.92		Pass
HT20	MCS0	2	165	5825	17.70	16.10	19.98	30.00		4.92		Pass
HT40	MCS0	2	151	5755	18.60	17.00	20.88	30.00		4.92		Pass
HT40	MCS0	2	159	5795	18.20	17.00	20.65	30.00		4.92		Pass
VHT20	MCS0	2	149	5745	18.60	17.30	21.01	30.00		4.92		Pass
VHT20	MCS0	2	157	5785	17.80	16.40	20.17	30.00		4.92		Pass
VHT20	MCS0	2	165	5825	17.90	16.30	20.18	30.00		4.92		Pass
VHT40	MCS0	2	151	5755	18.80	17.20	21.08	30.00		4.92		Pass
VHT40	MCS0	2	159	5795	18.40	17.20	20.85	30.00		4.92		Pass
VHT80	MCS0	2	155	5775	15.10	14.00	17.60	30.00		4.92		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	1	149	5745	0.08	0.08	2.22	2.22	4.79	1.59		30.00	30.00	4.92	4.92	Pass
11a	6Mbps	1	157	5785	0.08	0.08	2.22	2.22	4.10	2.04		30.00	30.00	4.92	4.92	Pass
11a	6Mbps	1	165	5825	0.08	0.08	2.22	2.22	4.71	0.08		30.00	30.00	4.92	4.92	Pass

U-NII-3 MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
VHT20	MCS0	2	149	5745	0.08	0.08	2.22	3.59	2.10	6.60	28.07		7.93		Pass	
VHT20	MCS0	2	157	5785	0.08	0.08	2.22	2.81	1.58	5.82	28.07		7.93		Pass	
VHT20	MCS0	2	165	5825	0.08	0.08	2.22	3.40	1.90	6.41	28.07		7.93		Pass	
VHT40	MCS0	2	151	5755	0.17	0.20	2.22	0.26	-0.89	3.27	28.07		7.93		Pass	
VHT40	MCS0	2	159	5795	0.17	0.20	2.22	-0.14	-1.11	2.87	28.07		7.93		Pass	
VHT80	MCS0	2	155	5775	0.37	0.37	2.22	-6.20	-8.06	-3.19	28.07		7.93		Pass	

Note: PSD Sum = Max PSD(Ant. 0, Ant. 1) + 10 log (n)

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

U-NII-3 MIMO													
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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	149	5745	Full	25.57	22.88	44.26	43.52	18.90	18.67	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.98	21.98	40.42	41.50	18.91	18.69	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.73	23.38	39.17	43.15	18.88	18.86	0.5	Pass
HE40	MCS0	2	151	5755	Full	40.26	40.56	77.71	76.37	37.94	37.95	0.5	Pass
HE40	MCS0	2	159	5795	Full	39.86	40.16	90.16	77.07	38.06	38.08	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.44	77.32	147.04	184.80	77.58	77.30	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	2	149	5745	Full	18.30	17.00	20.71	30.00		4.92		Pass
HE20	MCS0	2	157	5785	Full	17.70	16.30	20.07	30.00		4.92		Pass
HE20	MCS0	2	165	5825	Full	17.80	16.20	20.08	30.00		4.92		Pass
HE40	MCS0	2	151	5755	Full	18.70	17.10	20.98	30.00		4.92		Pass
HE40	MCS0	2	159	5795	Full	18.30	17.10	20.75	30.00		4.92		Pass
HE80	MCS0	2	155	5775	Full	15.00	13.90	17.50	30.00		4.92		Pass

TEST RESULTS DATA
Power Spectral Density

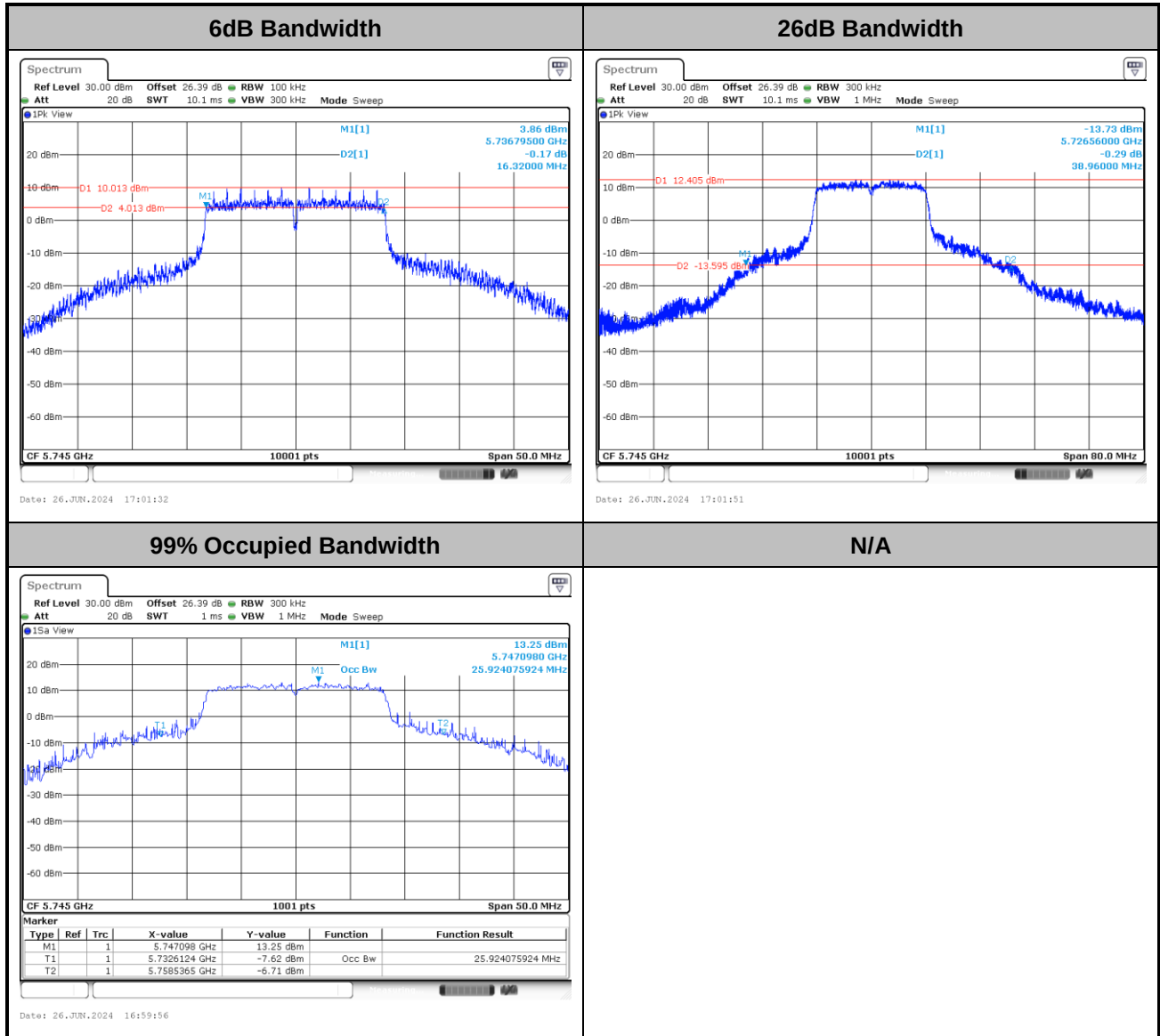
U-NII-3 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	2	149	5745	Full	0.11	0.11	2.22	3.02	1.64	6.03	28.07		7.93		Pass	
HE20	MCS0	2	157	5785	Full	0.11	0.11	2.22	3.04	1.16	6.05	28.07		7.93		Pass	
HE20	MCS0	2	165	5825	Full	0.11	0.11	2.22	3.31	1.13	6.32	28.07		7.93		Pass	
HE40	MCS0	2	151	5755	Full	0.21	0.21	2.22	0.22	-1.17	3.23	28.07		7.93		Pass	
HE40	MCS0	2	159	5795	Full	0.21	0.21	2.22	-0.14	-1.69	2.87	28.07		7.93		Pass	
HE80	MCS0	2	155	5775	Full	0.35	0.35	2.22	-3.01	-4.22	0.00	28.07		7.93		Pass	

Note: PSD Sum = Max PSD(Ant. 0, Ant. 1) + 10 log (n)

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

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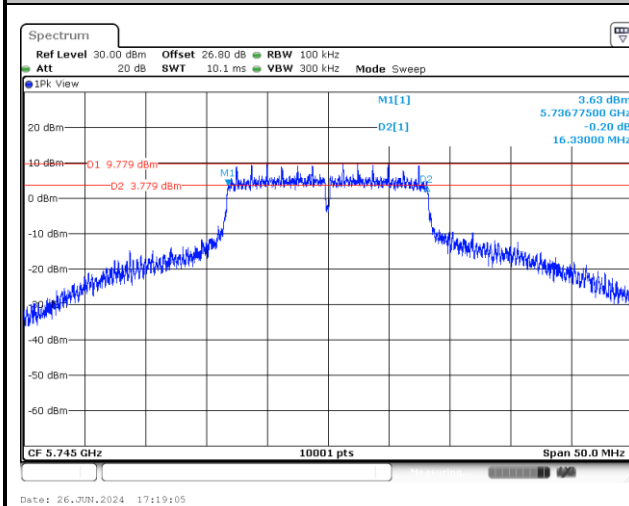




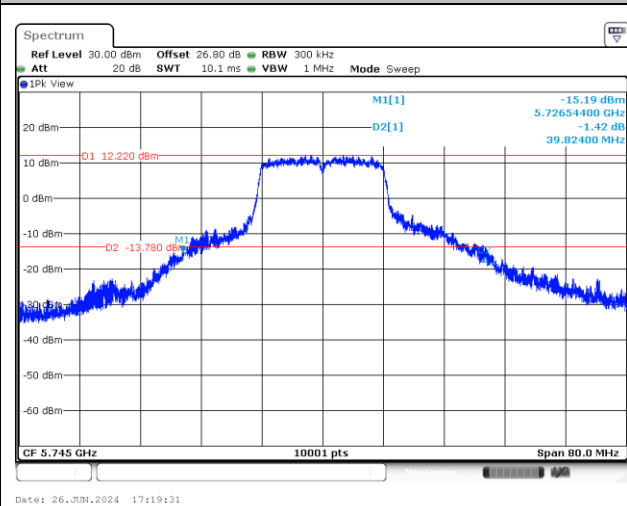
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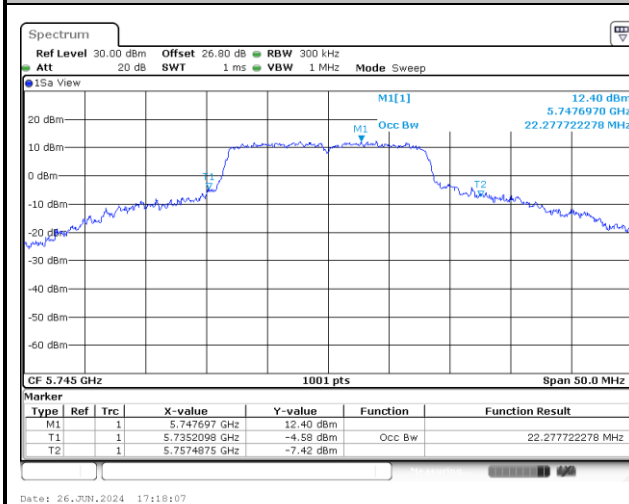
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth



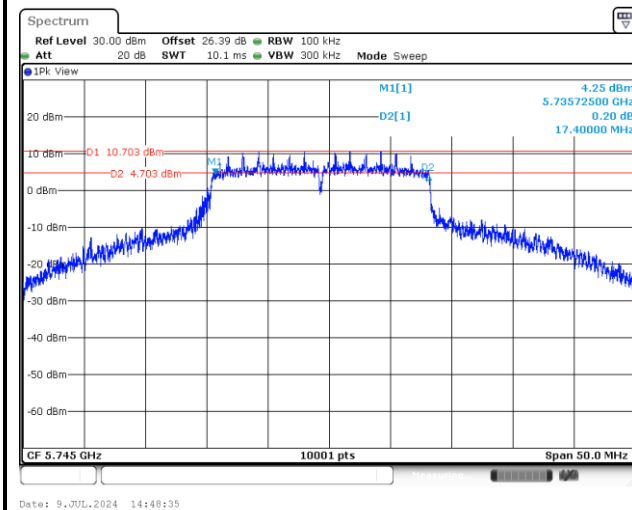
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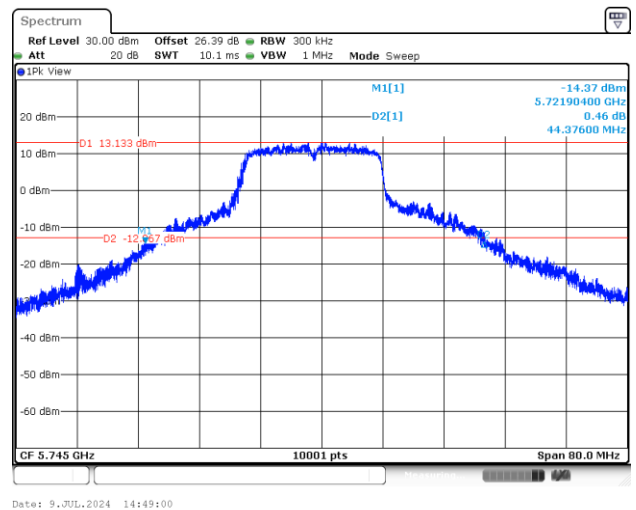
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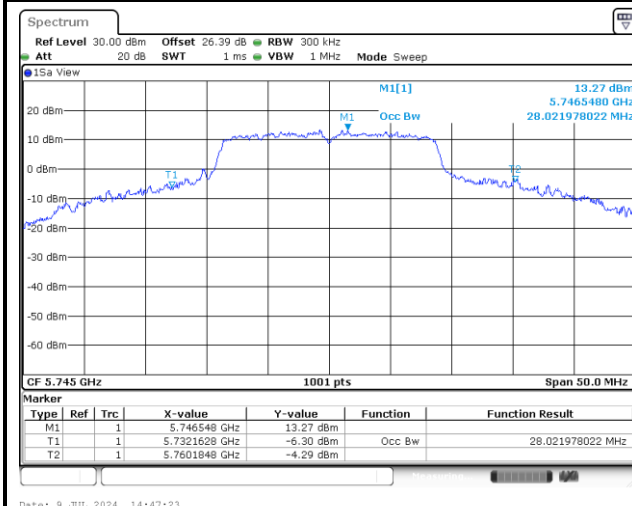
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

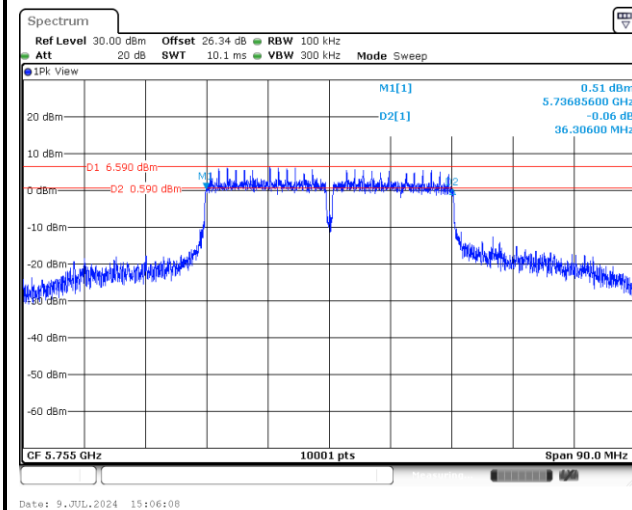


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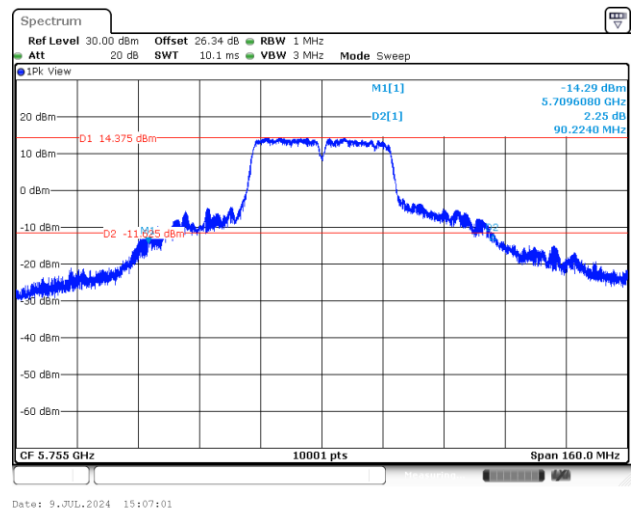


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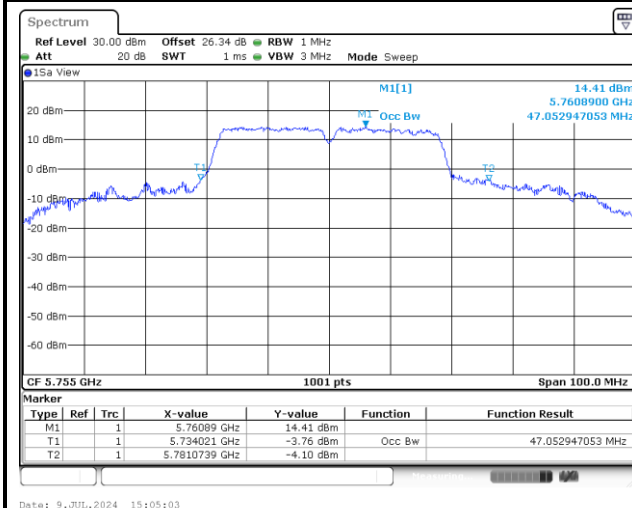
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

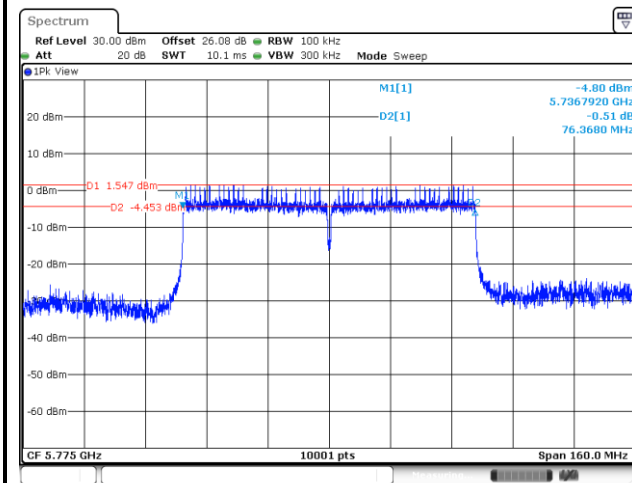


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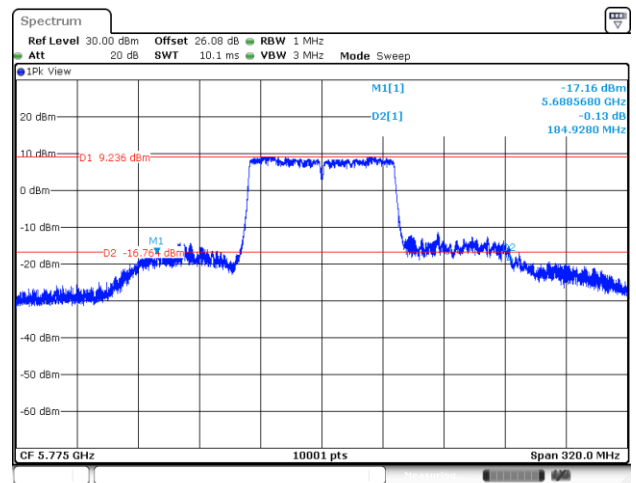


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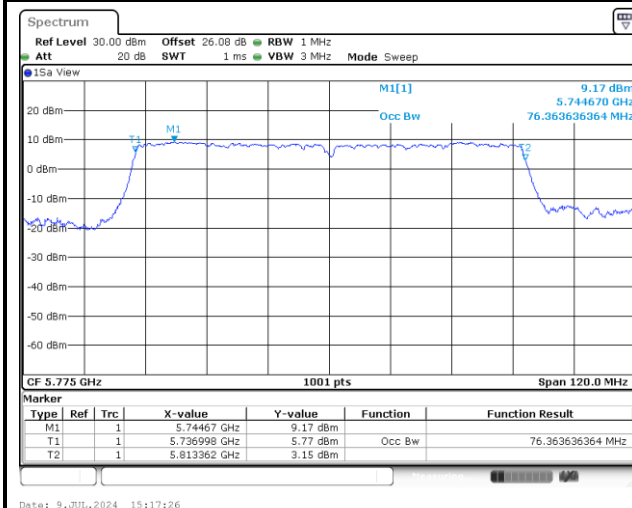
6dB Bandwidth



26dB Bandwidth



99% Occupied Bandwidth

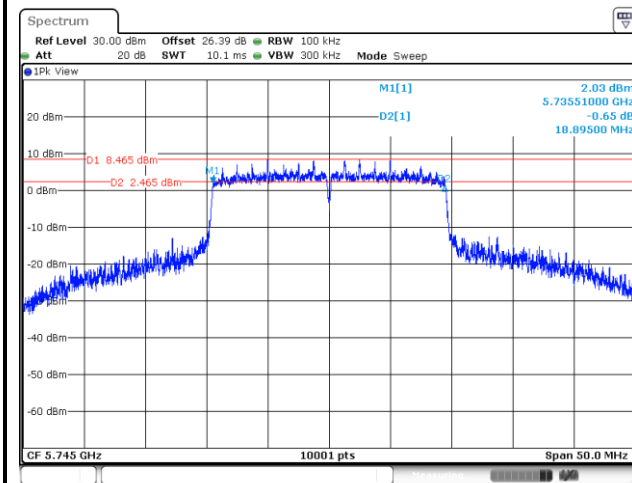


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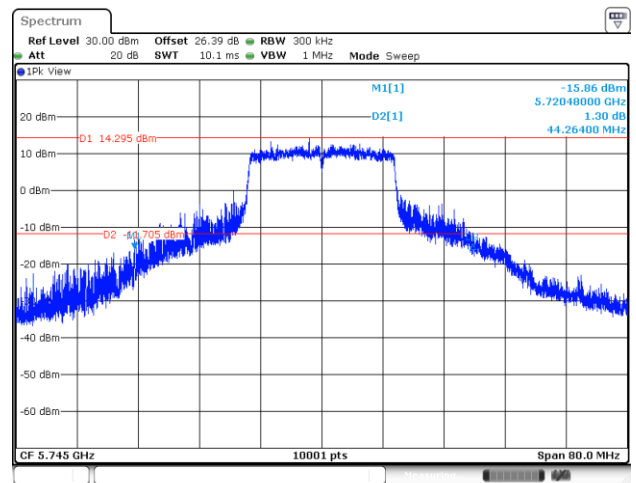


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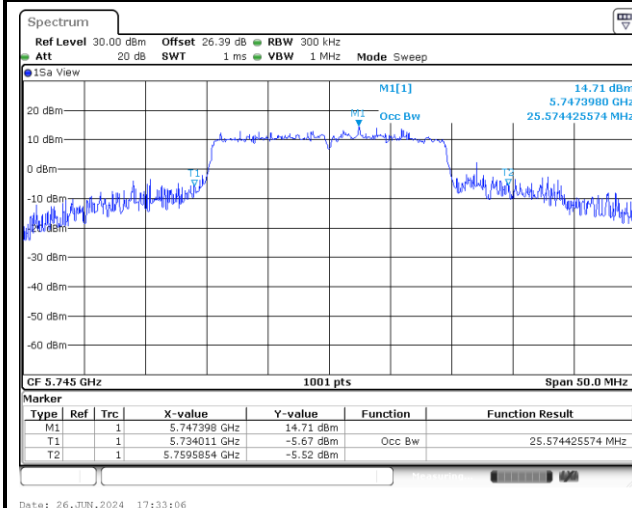
6dB Bandwidth



26dB Bandwidth



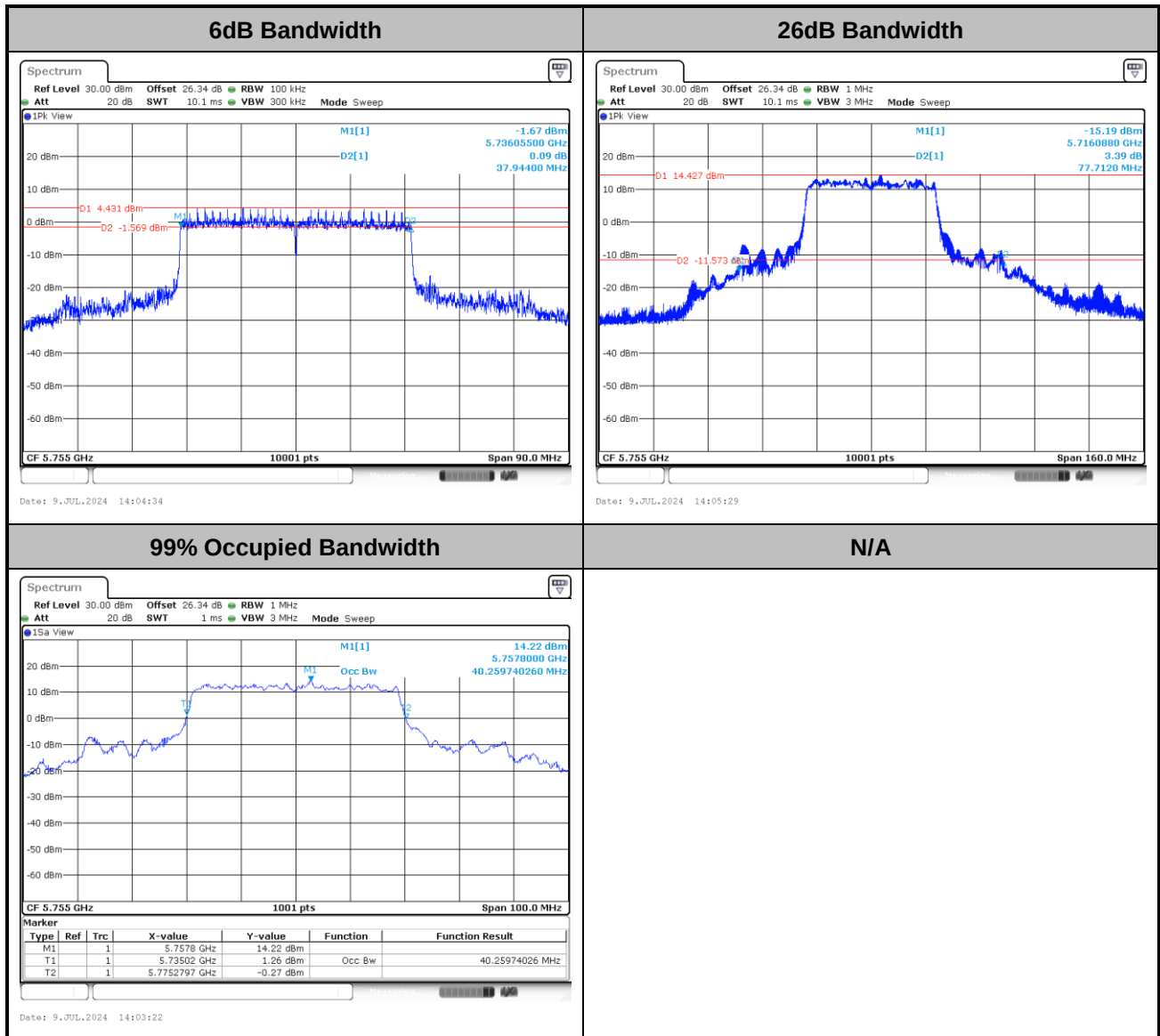
99% Occupied Bandwidth



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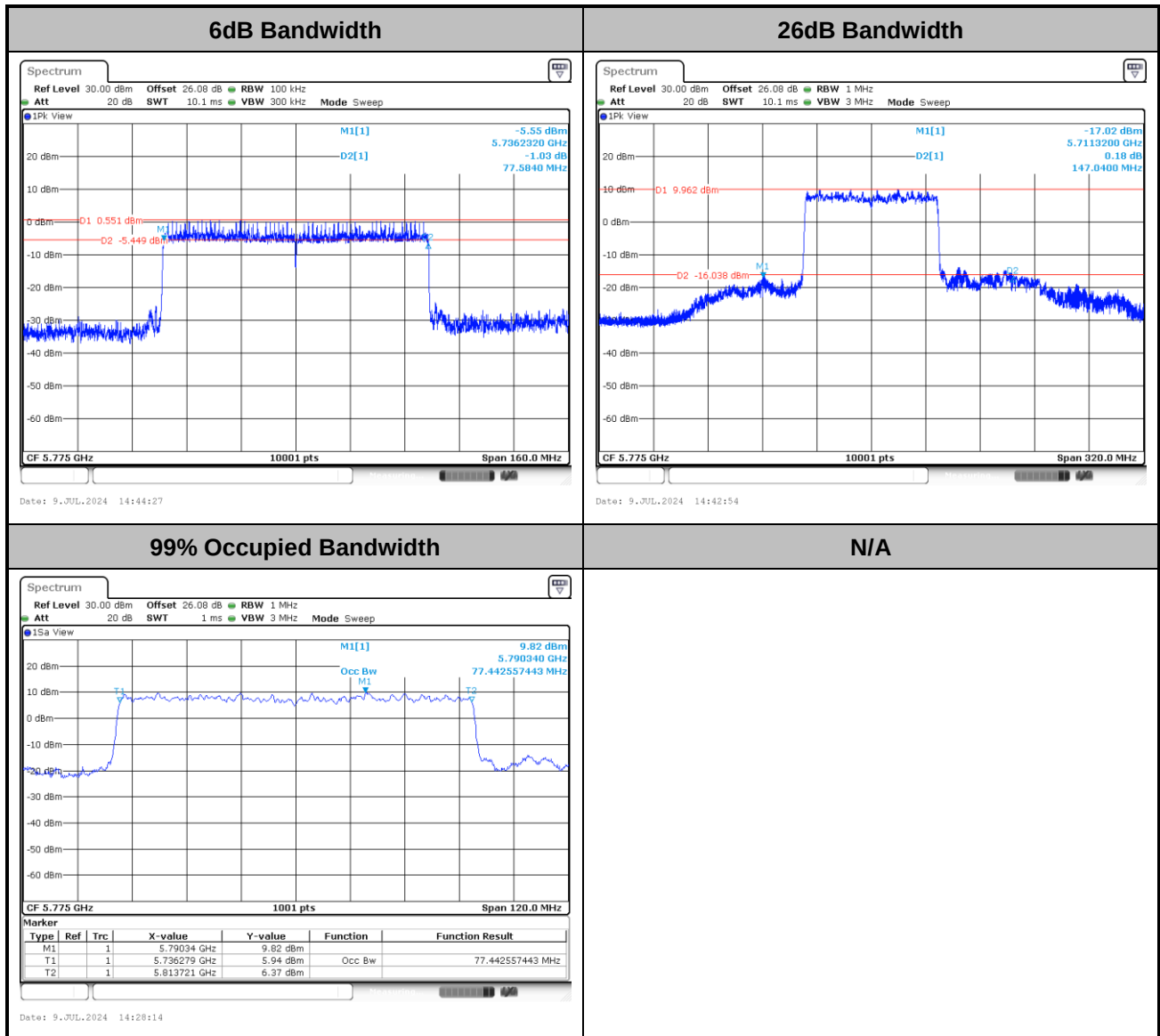


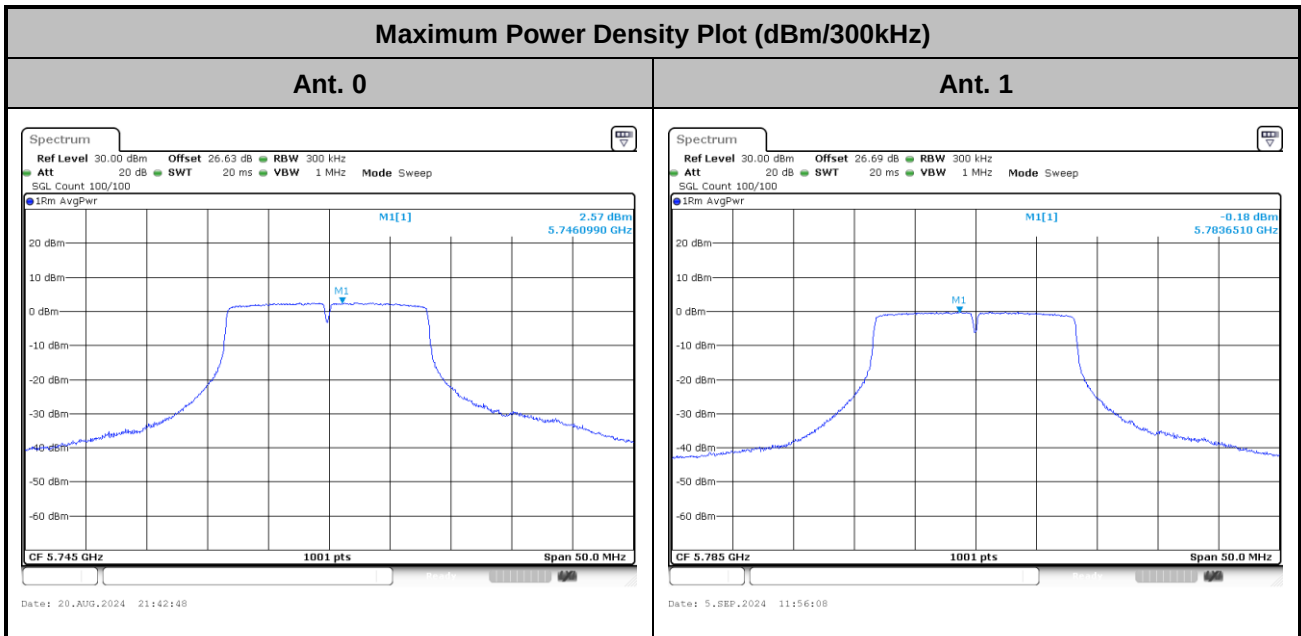
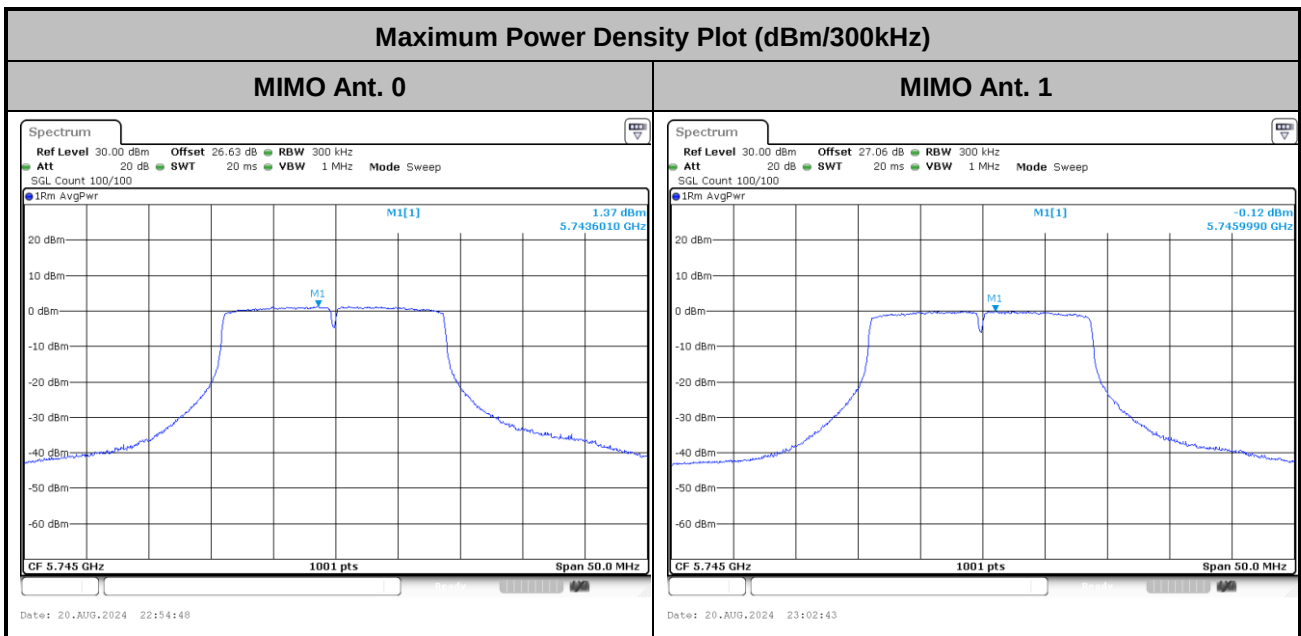
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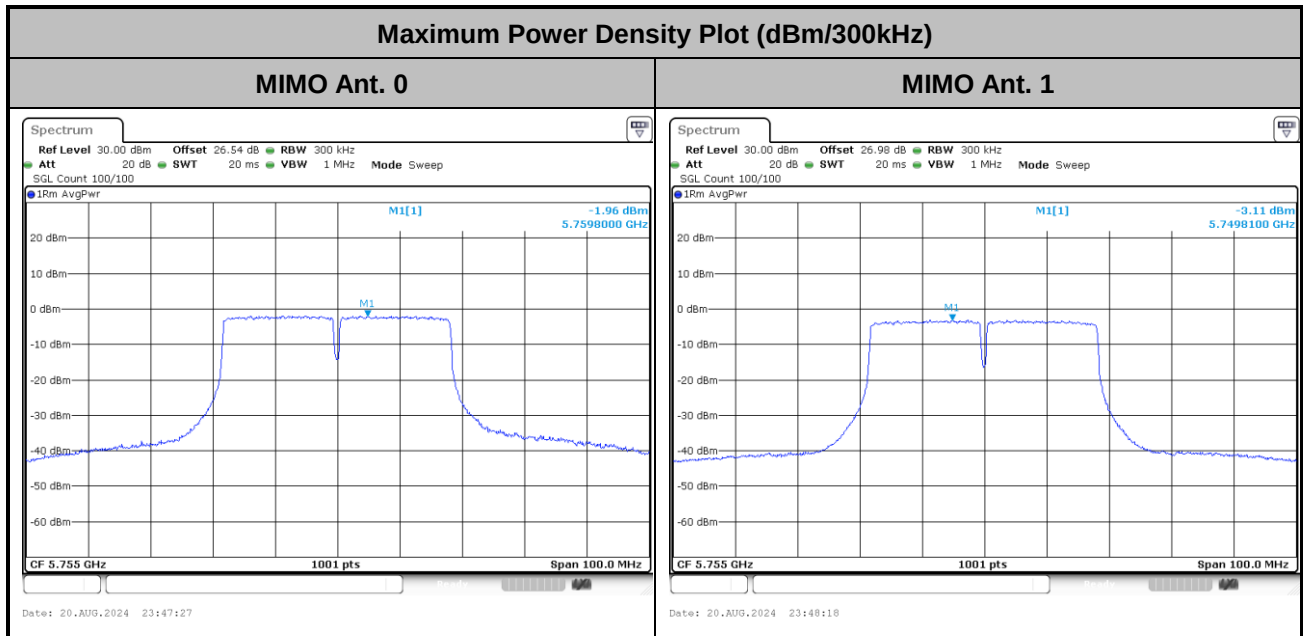
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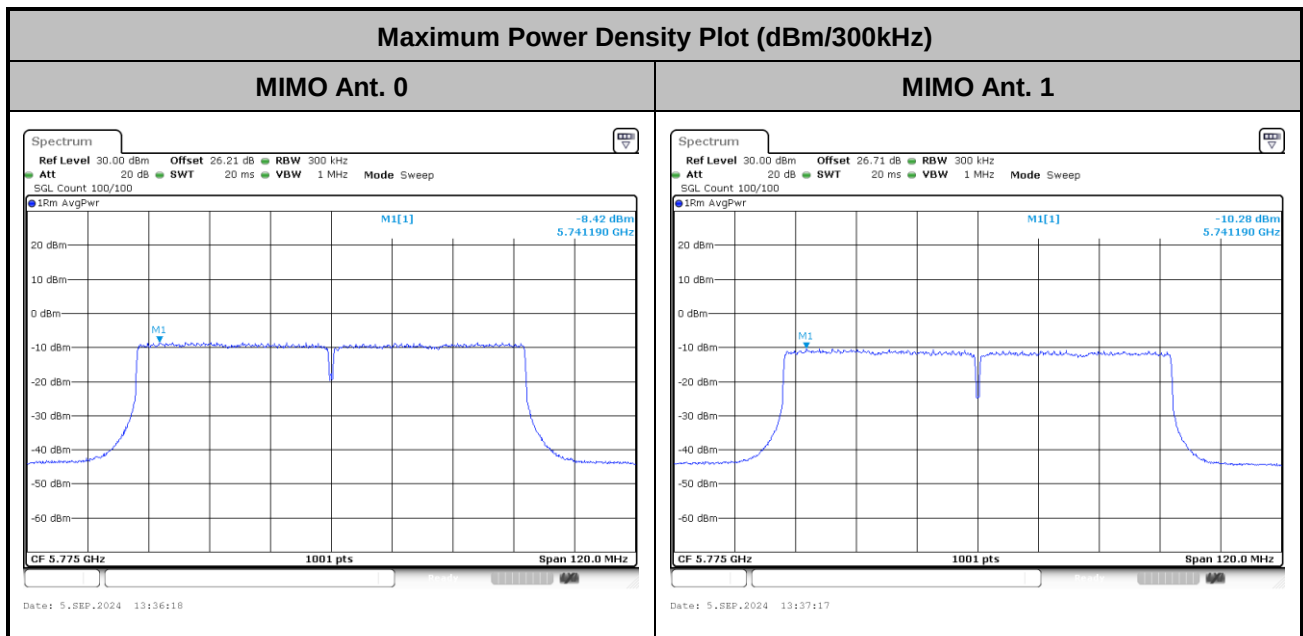
Test Result of Power Spectral Density
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<802.11ac VHT20>




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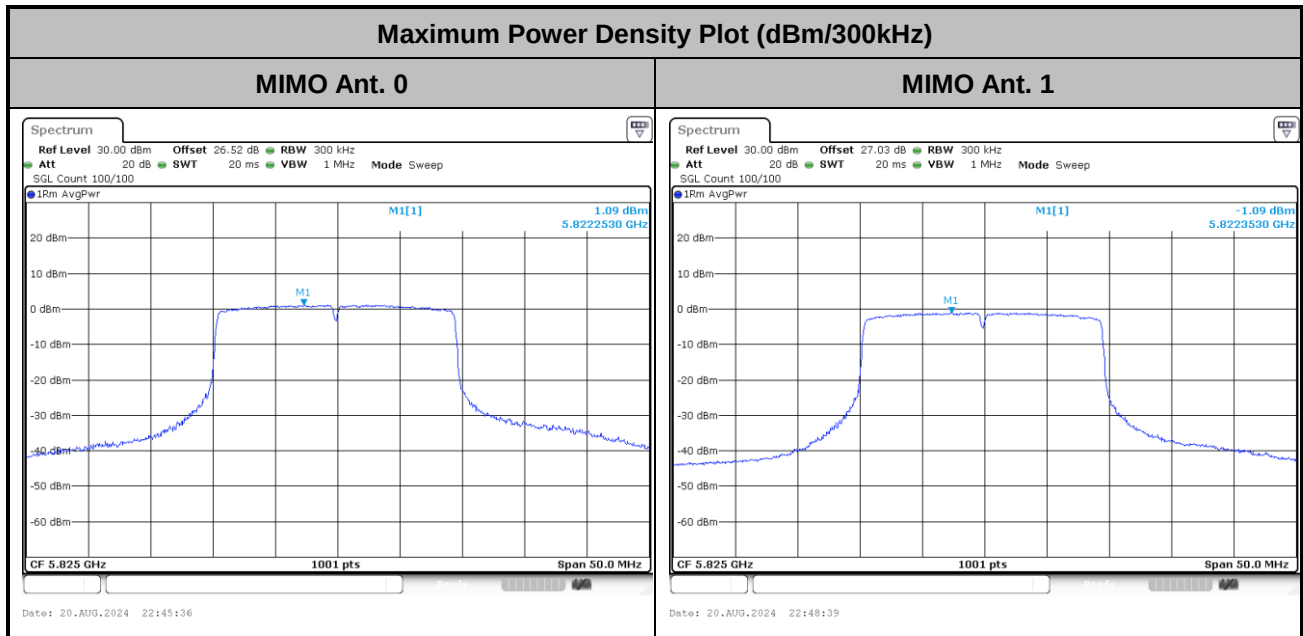


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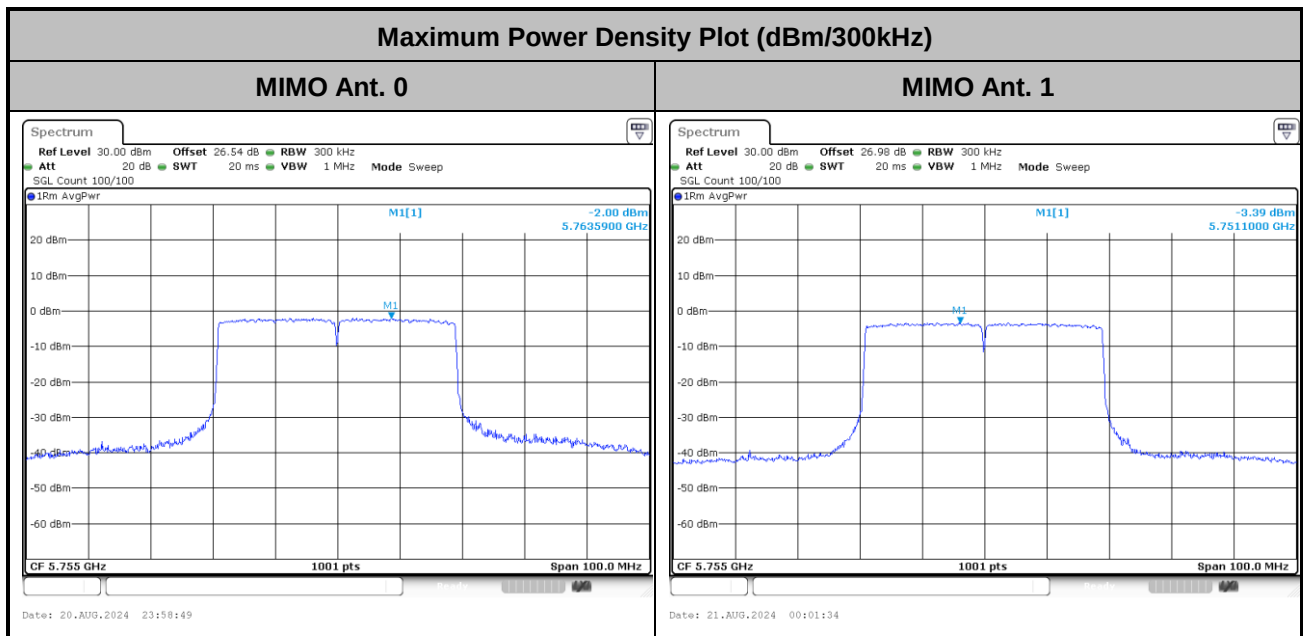




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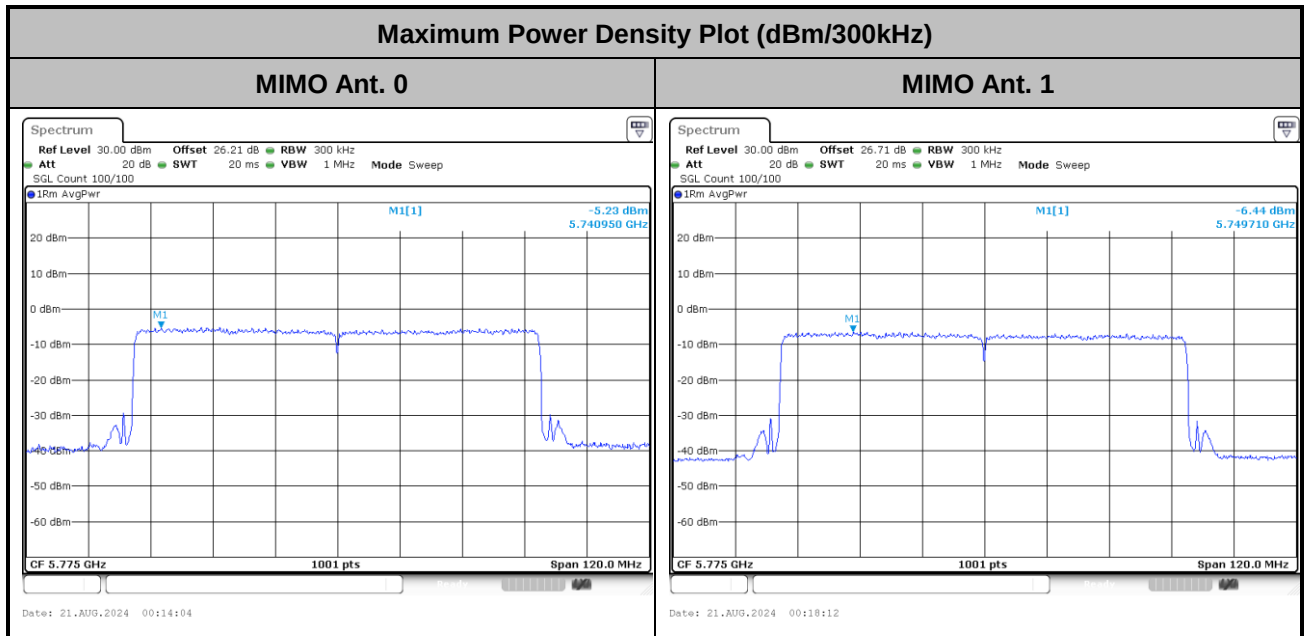


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<802.11ax HE80>





Appendix B. AC Conducted Emission Test Results

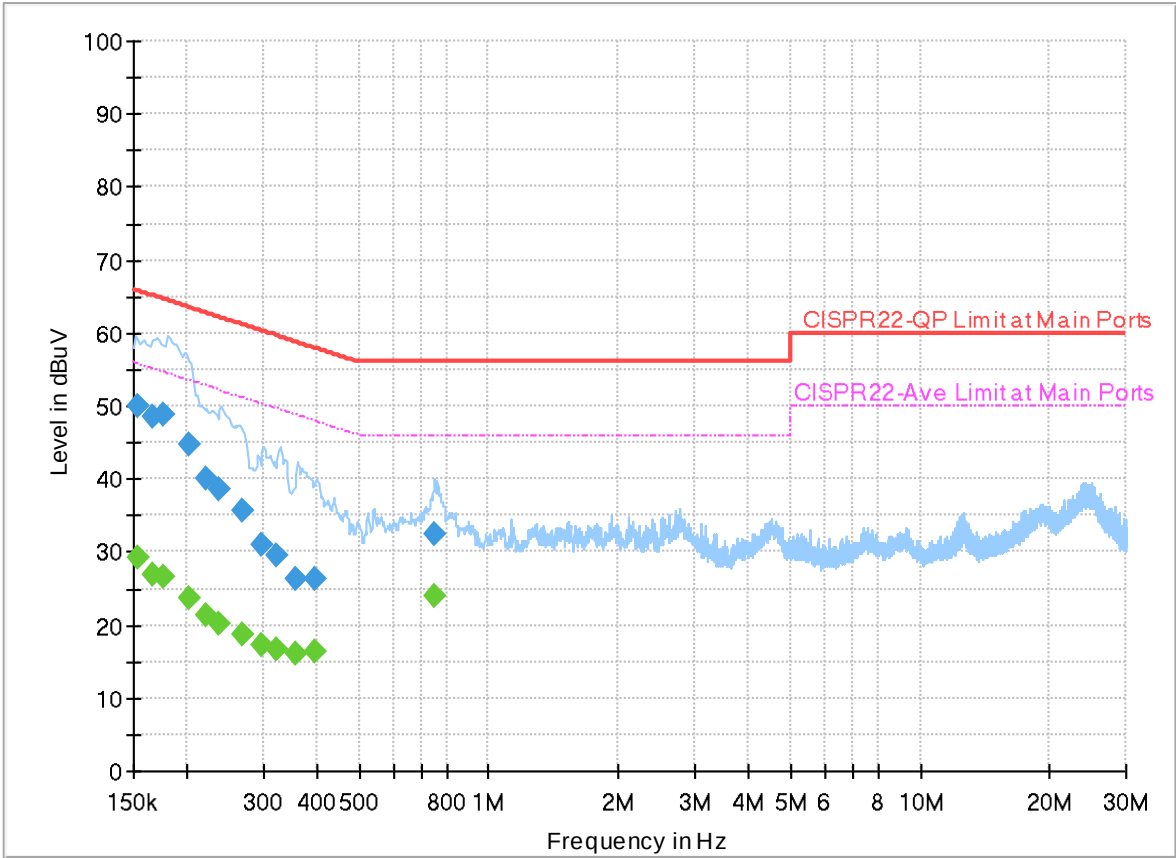
Test Engineer :	Louis Chung	Temperature :	23.5~26.7°C
		Relative Humidity :	52.2~57.9%

EUT Information

Report NO :
Test Mode :
Test Voltage :
Phase :

450901
Mode 1
120Vac/60Hz
Line

Full Spectrum



Final Result

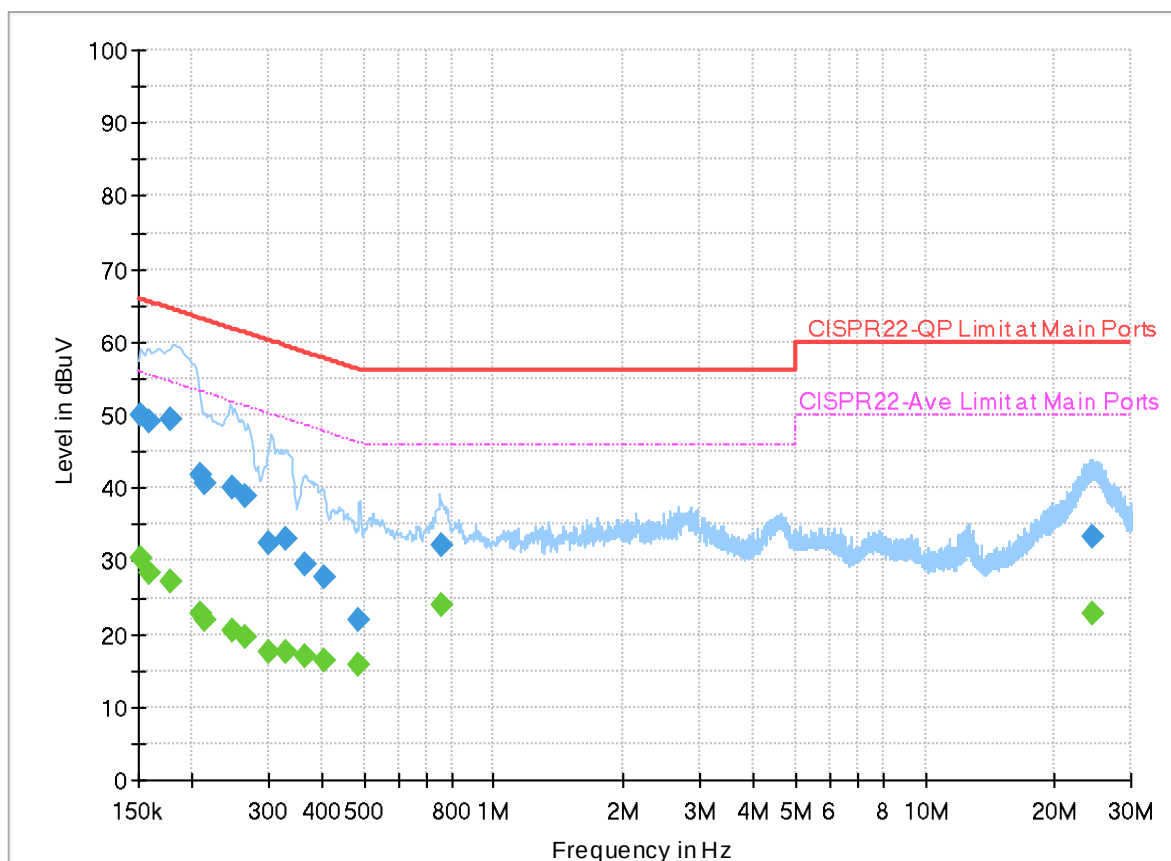
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152835	---	29.26	55.84	26.58	L1	OFF	19.9
0.152835	50.00	---	65.84	15.84	L1	OFF	19.9
0.165750	---	26.93	55.17	28.24	L1	OFF	19.9
0.165750	48.44	---	65.17	16.73	L1	OFF	19.9
0.176370	---	26.69	54.66	27.97	L1	OFF	19.9
0.176370	48.83	---	64.66	15.83	L1	OFF	19.9
0.201750	---	23.65	53.54	29.89	L1	OFF	19.9
0.201750	44.87	---	63.54	18.67	L1	OFF	19.9
0.219750	---	21.23	52.83	31.60	L1	OFF	19.9
0.219750	40.16	---	62.83	22.67	L1	OFF	19.9
0.236490	---	20.09	52.22	32.13	L1	OFF	19.9
0.236490	38.50	---	62.22	23.72	L1	OFF	19.9
0.266820	---	18.77	51.22	32.45	L1	OFF	19.9
0.266820	35.76	---	61.22	25.46	L1	OFF	19.9
0.296340	---	17.23	50.35	33.12	L1	OFF	19.9
0.296340	31.08	---	60.35	29.27	L1	OFF	19.9
0.323250	---	16.64	49.62	32.98	L1	OFF	19.9
0.323250	29.40	---	59.62	30.22	L1	OFF	19.9
0.357630	---	16.22	48.78	32.56	L1	OFF	19.9

0.357630	26.21	---	58.78	32.57	L1	OFF	19.9
0.395250	---	16.39	47.95	31.56	L1	OFF	19.9
0.395250	26.36	---	57.95	31.59	L1	OFF	19.9
0.749400	---	23.87	46.00	22.13	L1	OFF	19.9
0.749400	32.53	---	56.00	23.47	L1	OFF	19.9

EUT Information

Report NO : 450901
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151958	---	30.41	55.89	25.48	N	OFF	19.9
0.151958	50.09	---	65.89	15.80	N	OFF	19.9
0.158640	---	28.28	55.54	27.26	N	OFF	19.9
0.158640	49.07	---	65.54	16.47	N	OFF	19.9
0.177000	---	27.07	54.63	27.56	N	OFF	19.9
0.177000	49.43	---	64.63	15.20	N	OFF	19.9
0.208500	---	22.78	53.27	30.49	N	OFF	19.9
0.208500	41.93	---	63.27	21.34	N	OFF	19.9
0.213000	---	21.98	53.09	31.11	N	OFF	19.9
0.213000	40.60	---	63.09	22.49	N	OFF	19.9
0.247470	---	20.51	51.84	31.33	N	OFF	19.9
0.247470	40.01	---	61.84	21.83	N	OFF	19.9
0.264750	---	19.62	51.28	31.66	N	OFF	19.9
0.264750	38.98	---	61.28	22.30	N	OFF	19.9
0.300750	---	17.59	50.22	32.63	N	OFF	19.9
0.300750	32.31	---	60.22	27.91	N	OFF	19.9
0.328380	---	17.52	49.49	31.97	N	OFF	19.9
0.328380	33.12	---	59.49	26.37	N	OFF	19.9
0.366810	---	16.91	48.57	31.66	N	OFF	19.9

0.366810	29.48	---	58.57	29.09	N	OFF	19.9
0.402000	---	16.34	47.81	31.47	N	OFF	19.9
0.402000	27.72	---	57.81	30.09	N	OFF	19.9
0.485430	---	15.68	46.25	30.57	N	OFF	19.9
0.485430	22.07	---	56.25	34.18	N	OFF	19.9
0.753270	---	24.01	46.00	21.99	N	OFF	19.9
0.753270	32.30	---	56.00	23.70	N	OFF	19.9
24.504000	---	22.83	50.00	27.17	N	OFF	20.2
24.504000	33.35	---	60.00	26.65	N	OFF	20.2



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Bill Chang, Gary Guo, and Steven Wu	Temperature :	18.2~20.2°C
		Relative Humidity :	54.2~56.1%

Note symbol

-L	Low channel location
-R	High channel location

<Sample 1>

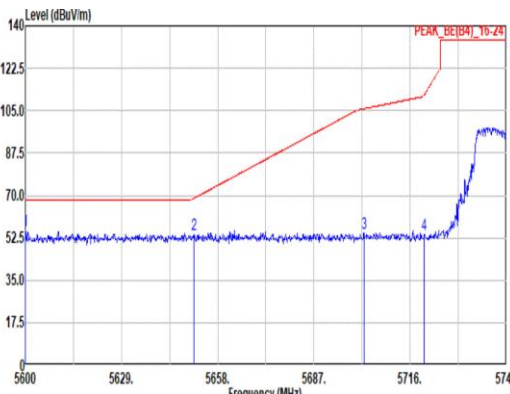
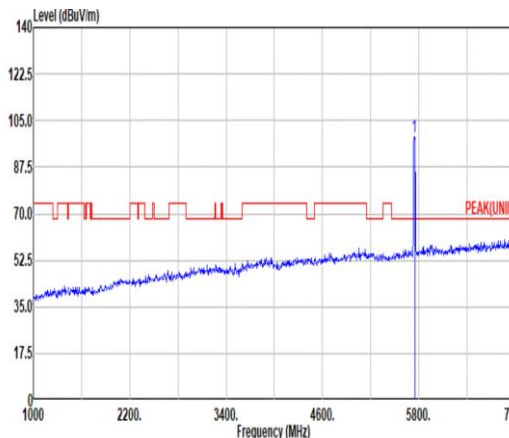
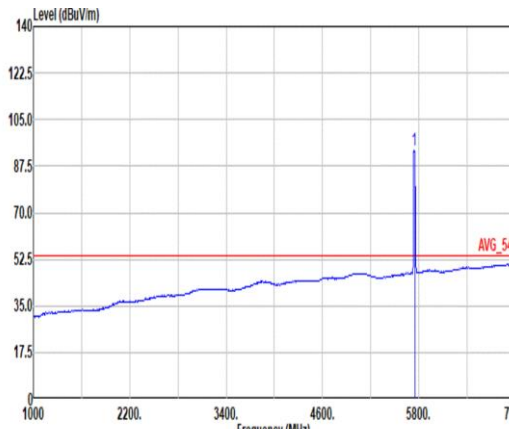
C1.1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 60	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	-
Mode 156	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	LF
Mode 157	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	SHF

C1.2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
60	802.11ac VHT20	149	5600.00	55.37	68.20	-12.83	H	Peak	Pass	-	Band Edge
	802.11ac VHT20	149	11490.00	40.59	54.00	-13.41	V	Avg.	Pass	-	Harmonic
156	LF	149	99.84	38.22	43.50	-5.28	V	QP	Pass	-	LF
157	SHF	149	39197.39	45.41	54.00	-8.59	V	Avg.	Pass	-	SHF

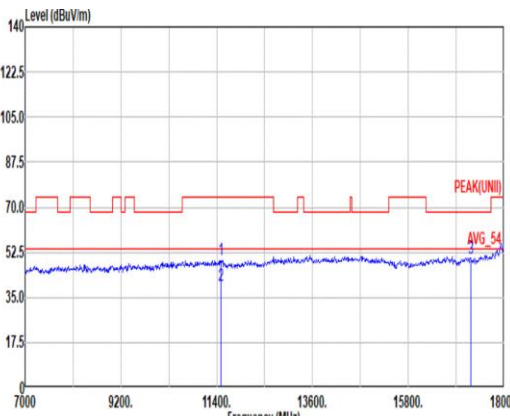
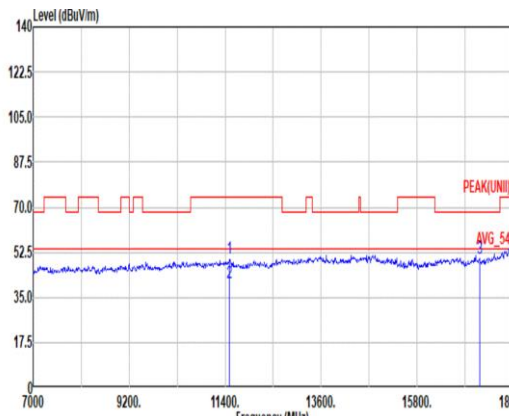


Mode	60																																																																																																																																								
	Band Edge																																																																																																																																								
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																																																																								
ANT	0+1																																																																																																																																								
Pol.	Horizontal						Fundamental																																																																																																																																		
Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1</td><td>5600.00</td><td>55.37</td><td>68.20</td><td>-12.83</td><td>40.29</td><td>32.00</td><td>11.65</td><td>29.37</td><td>0.00</td><td>100</td><td>210</td><td>PEAK</td></tr><tr><td>2</td><td>5650.75</td><td>53.71</td><td>68.76</td><td>-15.05</td><td>38.38</td><td>33.01</td><td>11.70</td><td>29.38</td><td>0.00</td><td>100</td><td>210</td><td>PEAK</td></tr><tr><td>3</td><td>5702.00</td><td>54.61</td><td>105.78</td><td>-51.17</td><td>38.84</td><td>33.40</td><td>11.76</td><td>29.39</td><td>0.00</td><td>100</td><td>210</td><td>PEAK</td></tr><tr><td>4</td><td>5720.21</td><td>53.75</td><td>111.27</td><td>-57.52</td><td>37.92</td><td>33.44</td><td>11.78</td><td>29.39</td><td>0.00</td><td>100</td><td>210</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	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5600.00	55.37	68.20	-12.83	40.29	32.00	11.65	29.37	0.00	100	210	PEAK	2	5650.75	53.71	68.76	-15.05	38.38	33.01	11.70	29.38	0.00	100	210	PEAK	3	5702.00	54.61	105.78	-51.17	38.84	33.40	11.76	29.39	0.00	100	210	PEAK	4	5720.21	53.75	111.27	-57.52	37.92	33.44	11.78	29.39	0.00	100	210	PEAK	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>98.82</td><td>-----</td><td>-----</td><td>82.93</td><td>33.49</td><td>11.80</td><td>29.40</td><td>0.00</td><td>100</td><td>210</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	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5745.00	98.82	-----	-----	82.93	33.49	11.80	29.40	0.00	100	210	PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																
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4	5720.21	53.75	111.27	-57.52	37.92	33.44	11.78	29.39	0.00	100	210	PEAK																																																																																																																													
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Avg.	Blank						 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.820kHz 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>93.28</td><td>-----</td><td>-----</td><td>77.40</td><td>33.48</td><td>11.80</td><td>29.40</td><td>0.00</td><td>100</td><td>210</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	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5745.00	93.28	-----	-----	77.40	33.48	11.80	29.40	0.00	100	210	AVERAGE																																																																																		
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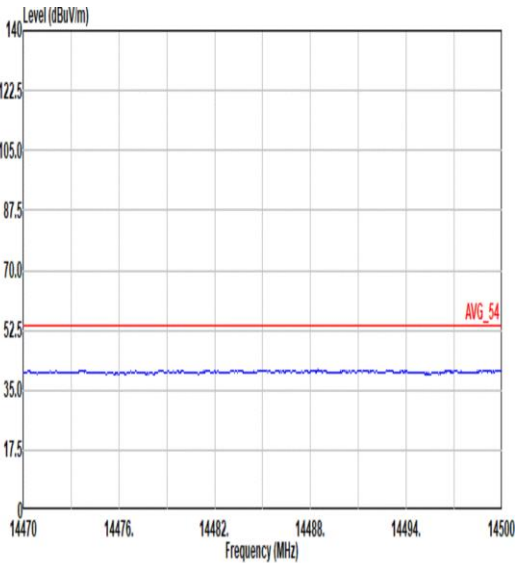
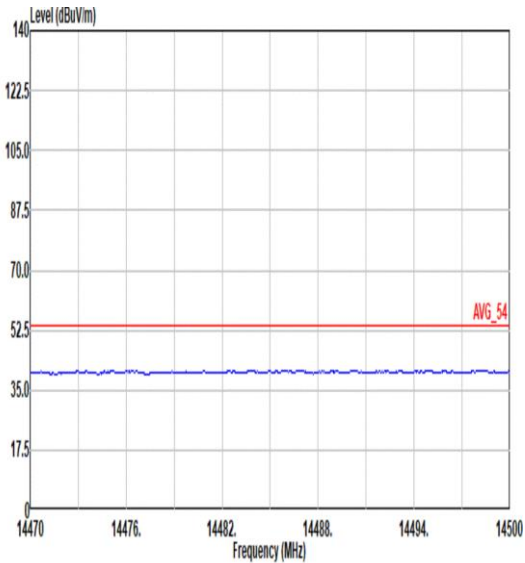
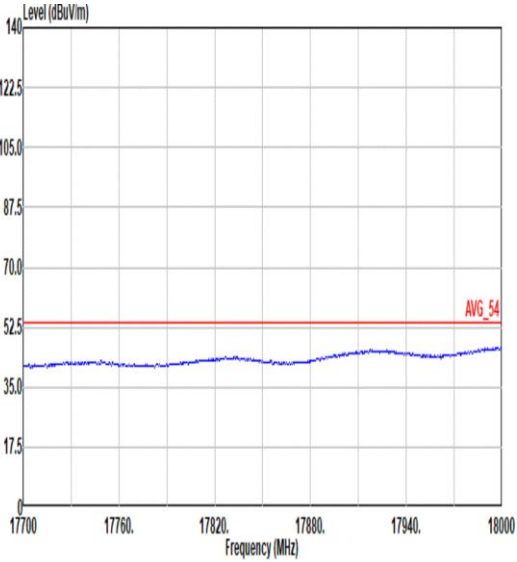
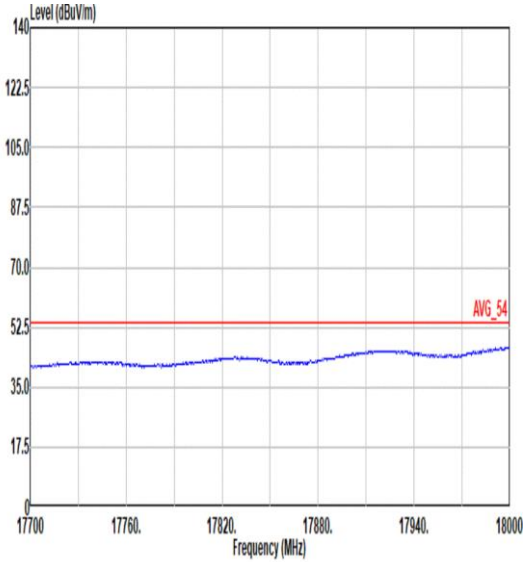


Mode	60																																																																																																															
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	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																																															
ANT	0+1																																																																																																															
Pol.	Vertical	Fundamental																																																																																																														
Peak	Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 VERTICAL : 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1 5633.35</td><td>54.76</td><td>68.20 -13.44</td><td>39.52</td><td>32.93</td><td>11.69</td><td>29.38</td><td>0.00</td><td>200</td><td>331 PEAK</td></tr><tr><td>2 5658.61</td><td>55.07</td><td>68.65 -13.58</td><td>39.75</td><td>33.00</td><td>11.70</td><td>29.38</td><td>0.00</td><td>200</td><td>331 PEAK</td></tr><tr><td>3 5701.65</td><td>56.10</td><td>105.66 -49.56</td><td>40.33</td><td>33.40</td><td>11.76</td><td>29.39</td><td>0.00</td><td>200</td><td>331 PEAK</td></tr><tr><td>4 5728.64</td><td>60.10</td><td>112.26 -52.16</td><td>44.27</td><td>33.44</td><td>11.78</td><td>29.39</td><td>0.00</td><td>200</td><td>331 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 5633.35	54.76	68.20 -13.44	39.52	32.93	11.69	29.38	0.00	200	331 PEAK	2 5658.61	55.07	68.65 -13.58	39.75	33.00	11.70	29.38	0.00	200	331 PEAK	3 5701.65	56.10	105.66 -49.56	40.33	33.40	11.76	29.39	0.00	200	331 PEAK	4 5728.64	60.10	112.26 -52.16	44.27	33.44	11.78	29.39	0.00	200	331 PEAK	Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 VERTICAL : 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1 5745.00</td><td>111.13</td><td>-----</td><td>95.25</td><td>33.48</td><td>11.80</td><td>29.40</td><td>0.00</td><td>200</td><td>331 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 5745.00	111.13	-----	95.25	33.48	11.80	29.40	0.00	200	331 PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																							
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1 5745.00	111.13	-----	95.25	33.48	11.80	29.40	0.00	200	331 PEAK																																																																																																							
Avg.	Blank	Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.820kHz 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><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</th><th>deg</th></tr><tr><td>1 5745.00</td><td>103.71</td><td>-----</td><td>87.83</td><td>33.48</td><td>11.80</td><td>29.40</td><td>0.00</td><td>200</td><td>331 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 5745.00	103.71	-----	87.83	33.48	11.80	29.40	0.00	200	331 AVERAGE																																																																						
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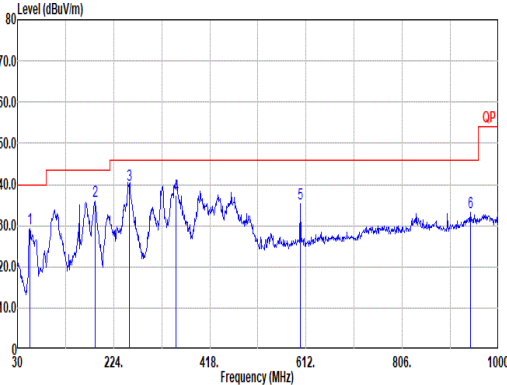
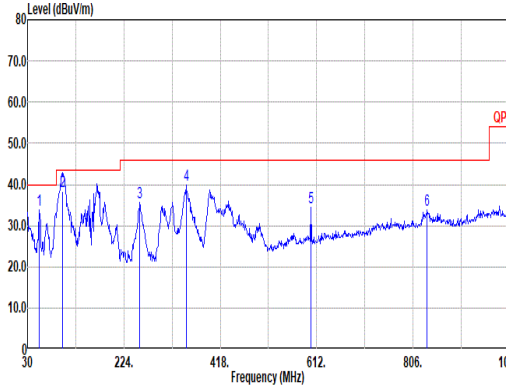


Mode	60																																																																													
	Harmonic																																																																													
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																													
ANT	0+1																																																																													
Pol.	Horizontal						Vertical																																																																							
Peak Avg.																																																																														
	Site : 03CH16-HY Condition: PEAK(UNII) 3m 91280-1522_240328 HORIZONTAL						Site : 03CH16-HY Condition: PEAK(UNII) 3m 91280-1522_240328 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 11490.00</td><td>49.76</td><td>74.00</td><td>-24.24</td><td>59.38</td><td>38.98</td><td>16.73</td><td>65.77</td><td>0.44</td><td>398</td><td>45</td><td>PEAK</td></tr><tr><td>2 11490.00</td><td>39.89</td><td>54.00</td><td>-14.11</td><td>49.51</td><td>38.98</td><td>16.73</td><td>65.77</td><td>0.44</td><td>398</td><td>45</td><td>AVERAGE</td></tr><tr><td>3 17235.00</td><td>50.36</td><td>68.20</td><td>-17.84</td><td>55.88</td><td>38.44</td><td>21.02</td><td>65.61</td><td>0.63</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 11490.00	49.76	74.00	-24.24	59.38	38.98	16.73	65.77	0.44	398	45	PEAK	2 11490.00	39.89	54.00	-14.11	49.51	38.98	16.73	65.77	0.44	398	45	AVERAGE	3 17235.00	50.36	68.20	-17.84	55.88	38.44	21.02	65.61	0.63	--	--	PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																					
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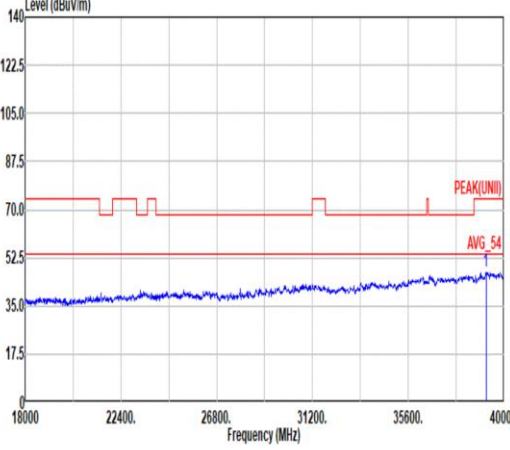
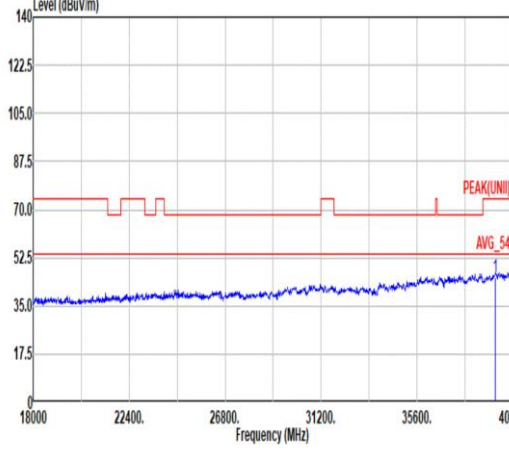


Mode	60	
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	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz	
ANT	0+1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL



Mode	156																																																																																																																													
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Pol.	Horizontal							Vertical																																																																																																																						
QP/ Peak																																																																																																																														
	Site : 03CH16-HY																																																																																																																													
	Condition: QP 3m CBL6111D&00002N1D01N-06_47020 & 06 HORIZONTAL																																																																																																																													
	<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Margin</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></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>55.22</td><td>29.18</td><td>40.00</td><td>-10.82</td><td>47.83</td><td>12.46</td><td>1.15</td><td>32.32</td><td>0.06</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>186.17</td><td>36.07</td><td>43.50</td><td>-7.43</td><td>51.26</td><td>14.93</td><td>2.12</td><td>32.32</td><td>0.08</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>256.01</td><td>39.85</td><td>46.00</td><td>-6.15</td><td>50.37</td><td>19.34</td><td>2.48</td><td>32.39</td><td>0.05</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>349.13</td><td>37.41</td><td>46.00</td><td>-8.59</td><td>46.12</td><td>20.41</td><td>2.92</td><td>32.16</td><td>0.12</td><td>100</td><td>233</td><td>QP</td><td></td></tr><tr><td>5</td><td>600.36</td><td>35.35</td><td>46.00</td><td>-10.65</td><td>38.68</td><td>25.58</td><td>3.82</td><td>32.89</td><td>0.16</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>943.74</td><td>33.18</td><td>46.00</td><td>-12.82</td><td>29.40</td><td>30.52</td><td>4.79</td><td>31.82</td><td>0.29</td><td>--</td><td>--</td><td>--</td><td>Peak</td></tr></table>															Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB	dB	cm	deg		1	55.22	29.18	40.00	-10.82	47.83	12.46	1.15	32.32	0.06	--	--	--	Peak	2	186.17	36.07	43.50	-7.43	51.26	14.93	2.12	32.32	0.08	--	--	--	Peak	3	256.01	39.85	46.00	-6.15	50.37	19.34	2.48	32.39	0.05	--	--	--	Peak	4	349.13	37.41	46.00	-8.59	46.12	20.41	2.92	32.16	0.12	100	233	QP		5	600.36	35.35	46.00	-10.65	38.68	25.58	3.82	32.89	0.16	--	--	--	Peak	6	943.74	33.18	46.00	-12.82	29.40	30.52	4.79	31.82	0.29	--	--	--	Peak
		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																
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	2	186.17	36.07	43.50	-7.43	51.26	14.93	2.12	32.32	0.08	--	--	--	Peak																																																																																																																
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6	943.74	33.18	46.00	-12.82	29.40	30.52	4.79	31.82	0.29	--	--	--	Peak																																																																																																																	
Site : 03CH16-HY																																																																																																																														
Condition: QP 3m CBL6111D&00002N1D01N-06_47020 & 06 VERTICAL																																																																																																																														
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	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																	
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Mode	157																																																																																															
	SHF																																																																																															
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																															
ANT	0+1																																																																																															
Pol.	Horizontal						Vertical																																																																																									
Peak																																																																																																
	Site : 03CH16-HY Condition: PEAK(UNII) 1m SHF_00993_231124 HORIZONTAL						Site : 03CH16-HY Condition: PEAK(UNII) 1m SHF_00993_231124 VERTICAL																																																																																									
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<Sample 2>

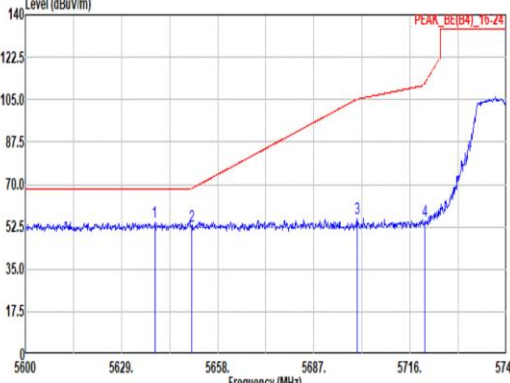
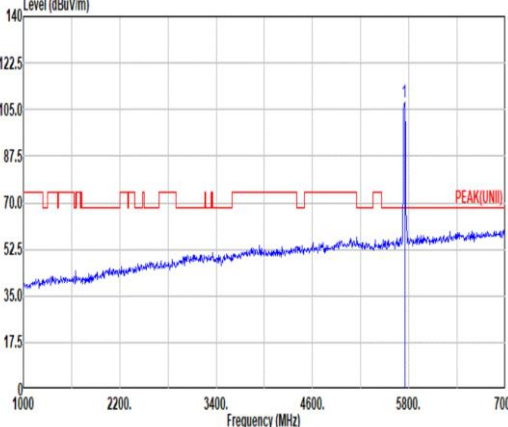
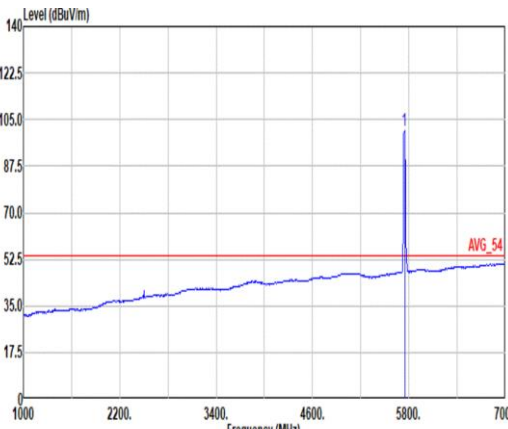
C2.1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 61	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	-
Mode 158	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	LF
Mode 159	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	SHF

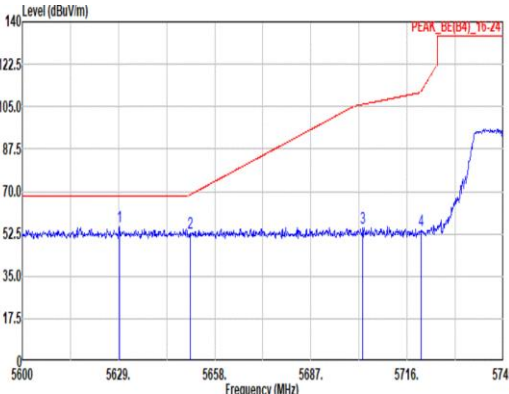
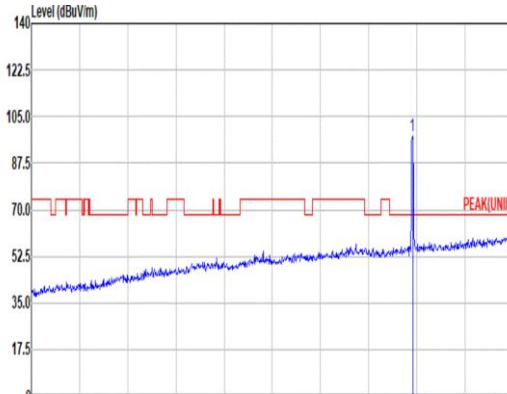
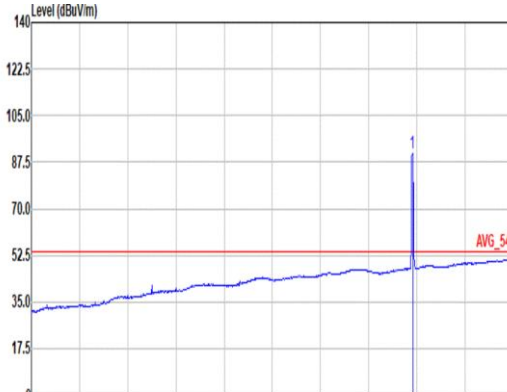
C2.2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
61	802.11ac VHT20	149	5629.29	55.48	68.20	-12.72	V	Peak	Pass	-	Band Edge
	802.11ac VHT20	149	11490.00	46.22	54.00	-7.78	V	Avg.	Pass	-	Harmonic
158	LF	149	349.13	39.86	46.00	-6.14	H	Peak	Pass	-	LF
159	SHF	149	39446.03	47.91	74.00	-26.09	H	Peak	Pass	-	SHF

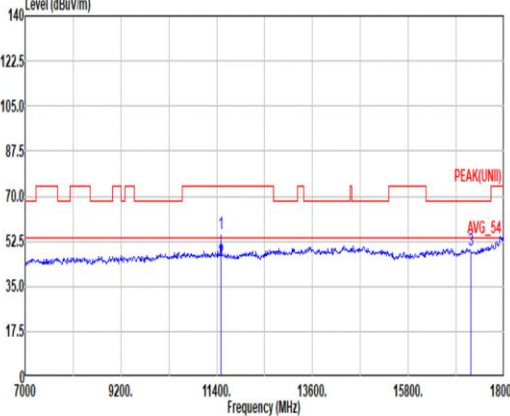
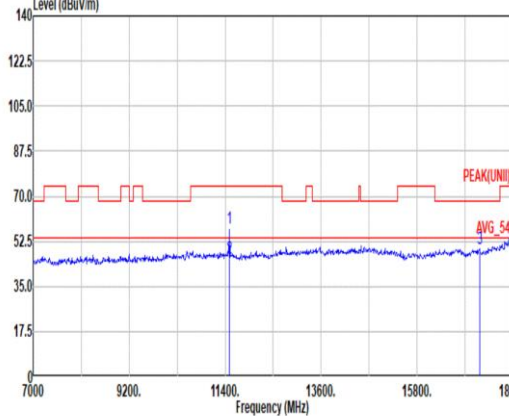


Mode	61																																																																																																																																										
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Pol.	Horizontal						Fundamental																																																																																																																																				
Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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>5639.01</td><td>54.59</td><td>68.20</td><td>-13.61</td><td>39.32</td><td>32.96</td><td>11.69</td><td>29.38</td><td>0.00</td><td>372</td><td>360</td><td>PEAK</td></tr><tr><td>2</td><td>5650.03</td><td>52.99</td><td>68.22</td><td>-15.23</td><td>37.67</td><td>33.00</td><td>11.70</td><td>29.38</td><td>0.00</td><td>372</td><td>360</td><td>PEAK</td></tr><tr><td>3</td><td>5700.05</td><td>56.07</td><td>105.21</td><td>-49.14</td><td>40.30</td><td>33.40</td><td>11.76</td><td>29.39</td><td>0.00</td><td>372</td><td>360</td><td>PEAK</td></tr><tr><td>4</td><td>5720.50</td><td>55.02</td><td>111.93</td><td>-56.91</td><td>39.19</td><td>33.44</td><td>11.78</td><td>29.39</td><td>0.00</td><td>372</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	5639.01	54.59	68.20	-13.61	39.32	32.96	11.69	29.38	0.00	372	360	PEAK	2	5650.03	52.99	68.22	-15.23	37.67	33.00	11.70	29.38	0.00	372	360	PEAK	3	5700.05	56.07	105.21	-49.14	40.30	33.40	11.76	29.39	0.00	372	360	PEAK	4	5720.50	55.02	111.93	-56.91	39.19	33.44	11.78	29.39	0.00	372	360	PEAK	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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>5745.00</td><td>107.57</td><td>-----</td><td>-----</td><td>91.68</td><td>33.49</td><td>11.80</td><td>29.40</td><td>0.00</td><td>372</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	5745.00	107.57	-----	-----	91.68	33.49	11.80	29.40	0.00	372	360	PEAK
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Avg.	Blank						 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz 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>100.72</td><td>-----</td><td>-----</td><td>84.83</td><td>33.49</td><td>11.80</td><td>29.40</td><td>0.00</td><td>372</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	5745.00	100.72	-----	-----	84.83	33.49	11.80	29.40	0.00	372	360	AVERAGE																																																																																			
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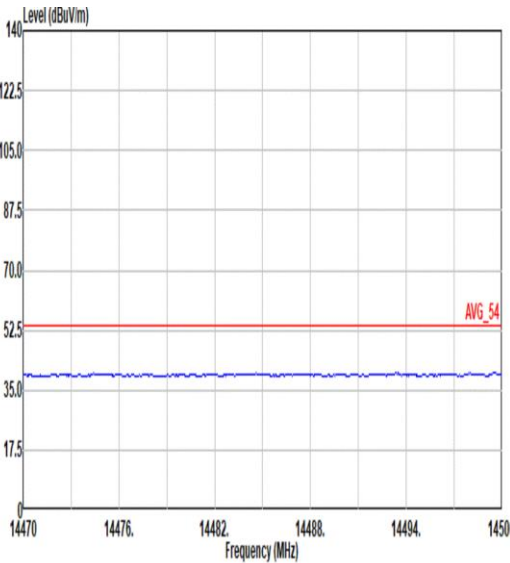
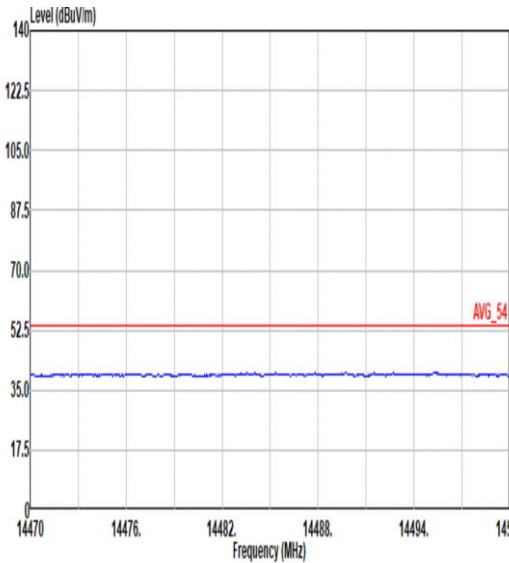
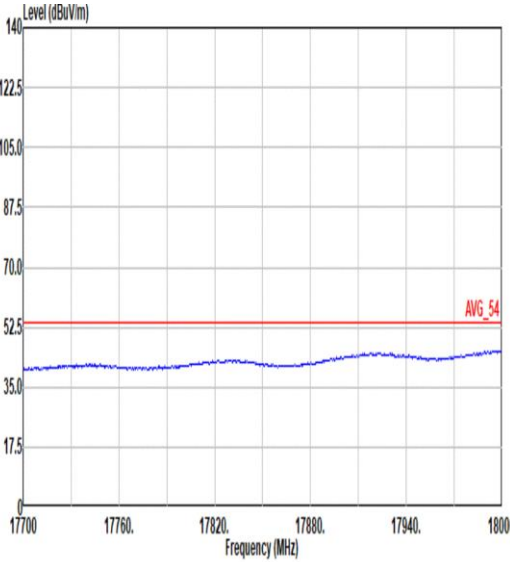
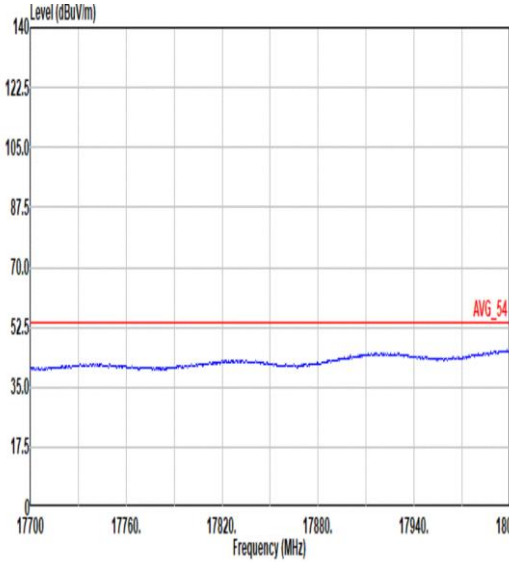


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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																	
1	5745.00	97.93	-----	-----	82.04	33.49	11.80	29.40	0.00	200	360	PEAK																																																																																																																															
Avg.	Blank						 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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></thead><tbody><tr><td>1</td><td>5745.00</td><td>90.84</td><td>-----</td><td>-----</td><td>74.95</td><td>33.49</td><td>11.80</td><td>29.40</td><td>0.00</td><td>200</td><td>360</td><td>AVERAGE</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	5745.00	90.84	-----	-----	74.95	33.49	11.80	29.40	0.00	200	360	AVERAGE																																																																																			
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																	
Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																				
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1	5745.00	90.84	-----	-----	74.95	33.49	11.80	29.40	0.00	200	360	AVERAGE																																																																																																																															

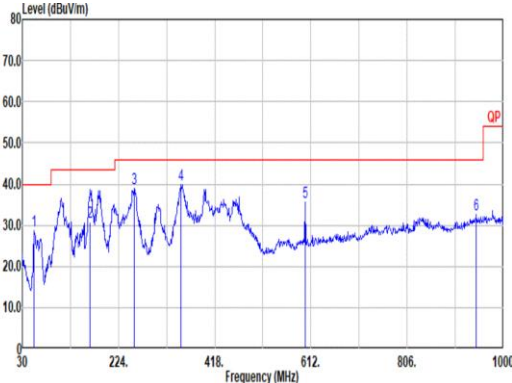
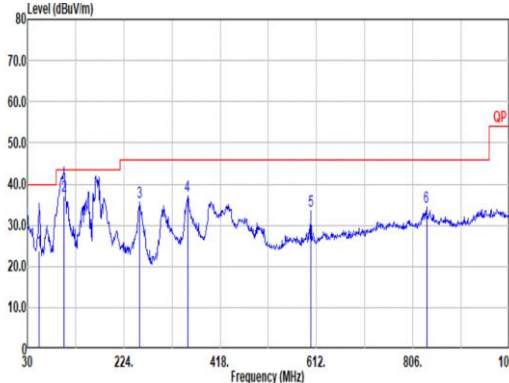


Mode	61																																																																																		
	Harmonic																																																																																		
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																		
ANT	0+1																																																																																		
Pol.	Horizontal						Vertical																																																																												
Peak Avg.																																																																																			
	Site : 03CH16-HY Condition: PEAK(UNII) 3m 91280-1522_240328 HORIZONTAL						Site : 03CH16-HY Condition: PEAK(UNII) 3m 91280-1522_240328 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></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>11490.00</td><td>55.50</td><td>74.00</td><td>-18.50</td><td>65.12</td><td>38.98</td><td>16.73</td><td>65.77</td><td>0.44</td><td>400</td><td>52</td><td>PEAK</td></tr><tr><td>2</td><td>11490.00</td><td>44.90</td><td>54.00</td><td>-9.10</td><td>54.52</td><td>38.98</td><td>16.73</td><td>65.77</td><td>0.44</td><td>400</td><td>157</td><td>AVERAGE</td></tr><tr><td>3</td><td>17235.00</td><td>49.12</td><td>68.20</td><td>-19.08</td><td>54.64</td><td>38.44</td><td>21.02</td><td>65.61</td><td>0.63</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	cm	deg	1	11490.00	55.50	74.00	-18.50	65.12	38.98	16.73	65.77	0.44	400	52	PEAK	2	11490.00	44.90	54.00	-9.10	54.52	38.98	16.73	65.77	0.44	400	157	AVERAGE	3	17235.00	49.12	68.20	-19.08	54.64	38.44	21.02	65.61	0.63	--	--	PEAK
	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	11490.00	55.50	74.00	-18.50	65.12	38.98	16.73	65.77	0.44	400	52	PEAK																																																																							
2	11490.00	44.90	54.00	-9.10	54.52	38.98	16.73	65.77	0.44	400	157	AVERAGE																																																																							
3	17235.00	49.12	68.20	-19.08	54.64	38.44	21.02	65.61	0.63	--	--	PEAK																																																																							

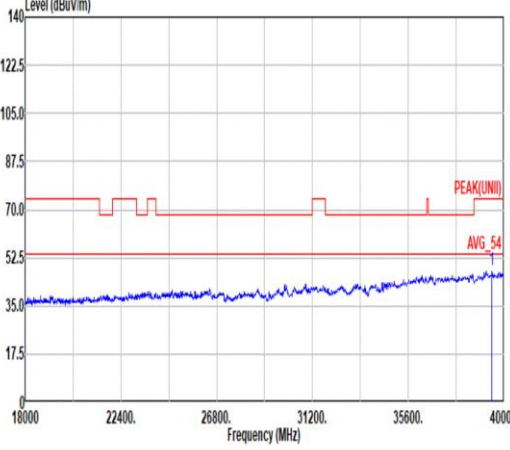
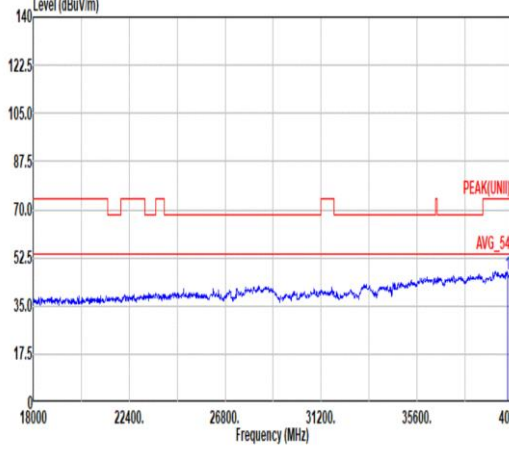


Mode	61	
	Harmonic	
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz	
ANT	0+1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL



Mode	158																																																																																																																																																																																																																								
	LF																																																																																																																																																																																																																								
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																																																																																																																																																								
ANT	0+1																																																																																																																																																																																																																								
Pol.	Horizontal						Vertical																																																																																																																																																																																																																		
QP/ Peak																																																																																																																																																																																																																									
	Site : 03CH16-HY Condition: QP 3m CBL6111D&00802N1D01N-06_47020 & 06 HORIZONTAL						Site : 03CH16-HY Condition: QP 3m CBL6111D&00802N1D01N-06_47020 & 06 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></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>54.25</td><td>28.74</td><td>40.00</td><td>-11.26</td><td>47.20</td><td>12.67</td><td>1.14</td><td>32.33</td><td>0.06</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>166.77</td><td>30.82</td><td>43.50</td><td>-12.68</td><td>45.14</td><td>15.94</td><td>2.01</td><td>32.36</td><td>0.09</td><td>127</td><td>300 QP</td></tr><tr><td>3</td><td>255.04</td><td>39.08</td><td>46.00</td><td>-6.92</td><td>49.76</td><td>19.19</td><td>2.47</td><td>32.39</td><td>0.05</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>349.13</td><td>39.86</td><td>46.00</td><td>-6.14</td><td>48.57</td><td>20.41</td><td>2.92</td><td>32.16</td><td>0.12</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>600.36</td><td>35.67</td><td>46.00</td><td>-10.33</td><td>39.00</td><td>25.58</td><td>3.82</td><td>32.89</td><td>0.16</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>945.68</td><td>32.50</td><td>46.00</td><td>-13.50</td><td>28.57</td><td>30.62</td><td>4.00</td><td>31.79</td><td>0.30</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	cm	deg	1	54.25	28.74	40.00	-11.26	47.20	12.67	1.14	32.33	0.06	--	Peak	2	166.77	30.82	43.50	-12.68	45.14	15.94	2.01	32.36	0.09	127	300 QP	3	255.04	39.08	46.00	-6.92	49.76	19.19	2.47	32.39	0.05	--	Peak	4	349.13	39.86	46.00	-6.14	48.57	20.41	2.92	32.16	0.12	--	Peak	5	600.36	35.67	46.00	-10.33	39.00	25.58	3.82	32.89	0.16	--	Peak	6	945.68	32.50	46.00	-13.50	28.57	30.62	4.00	31.79	0.30	--	Peak	<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>54.25</td><td>23.83</td><td>40.00</td><td>-16.17</td><td>42.29</td><td>12.67</td><td>1.14</td><td>32.33</td><td>0.06</td><td>100</td><td>27 QP</td></tr><tr><td>2</td><td>103.72</td><td>37.02</td><td>43.50</td><td>-6.48</td><td>51.42</td><td>16.37</td><td>1.56</td><td>32.40</td><td>0.07</td><td>100</td><td>61 QP</td></tr><tr><td>3</td><td>256.01</td><td>35.61</td><td>46.00</td><td>-10.39</td><td>46.13</td><td>19.34</td><td>2.48</td><td>32.39</td><td>0.05</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>352.04</td><td>37.11</td><td>46.00</td><td>-8.89</td><td>45.70</td><td>20.52</td><td>2.93</td><td>32.16</td><td>0.12</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>600.36</td><td>33.60</td><td>46.00</td><td>-12.40</td><td>36.93</td><td>25.58</td><td>3.82</td><td>32.89</td><td>0.16</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>833.16</td><td>34.36</td><td>46.00</td><td>-11.64</td><td>33.24</td><td>28.60</td><td>4.49</td><td>32.19</td><td>0.22</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	cm	deg	1	54.25	23.83	40.00	-16.17	42.29	12.67	1.14	32.33	0.06	100	27 QP	2	103.72	37.02	43.50	-6.48	51.42	16.37	1.56	32.40	0.07	100	61 QP	3	256.01	35.61	46.00	-10.39	46.13	19.34	2.48	32.39	0.05	--	Peak	4	352.04	37.11	46.00	-8.89	45.70	20.52	2.93	32.16	0.12	--	Peak	5	600.36	33.60	46.00	-12.40	36.93	25.58	3.82	32.89	0.16	--	Peak	6	833.16	34.36	46.00	-11.64	33.24	28.60	4.49	32.19	0.22	--
	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	54.25	28.74	40.00	-11.26	47.20	12.67	1.14	32.33	0.06	--	Peak																																																																																																																																																																																																														
2	166.77	30.82	43.50	-12.68	45.14	15.94	2.01	32.36	0.09	127	300 QP																																																																																																																																																																																																														
3	255.04	39.08	46.00	-6.92	49.76	19.19	2.47	32.39	0.05	--	Peak																																																																																																																																																																																																														
4	349.13	39.86	46.00	-6.14	48.57	20.41	2.92	32.16	0.12	--	Peak																																																																																																																																																																																																														
5	600.36	35.67	46.00	-10.33	39.00	25.58	3.82	32.89	0.16	--	Peak																																																																																																																																																																																																														
6	945.68	32.50	46.00	-13.50	28.57	30.62	4.00	31.79	0.30	--	Peak																																																																																																																																																																																																														
	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	54.25	23.83	40.00	-16.17	42.29	12.67	1.14	32.33	0.06	100	27 QP																																																																																																																																																																																																														
2	103.72	37.02	43.50	-6.48	51.42	16.37	1.56	32.40	0.07	100	61 QP																																																																																																																																																																																																														
3	256.01	35.61	46.00	-10.39	46.13	19.34	2.48	32.39	0.05	--	Peak																																																																																																																																																																																																														
4	352.04	37.11	46.00	-8.89	45.70	20.52	2.93	32.16	0.12	--	Peak																																																																																																																																																																																																														
5	600.36	33.60	46.00	-12.40	36.93	25.58	3.82	32.89	0.16	--	Peak																																																																																																																																																																																																														
6	833.16	34.36	46.00	-11.64	33.24	28.60	4.49	32.19	0.22	--	Peak																																																																																																																																																																																																														



Mode	159																																																																																															
	SHF																																																																																															
	U-NII-3_5.725-5.85_802.11ac VHT20_CH149_5745MHz																																																																																															
ANT	0+1																																																																																															
Pol.	Horizontal						Vertical																																																																																									
Peak																																																																																																
	Site : 03CH16-HY Condition: PEAK(UNII) 1m SHF_00993_231124 HORIZONTAL						Site : 03CH16-HY Condition: PEAK(UNII) 1m SHF_00993_231124 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>cm</th><th>deg</th></tr><tr><td>1</td><td>39446.03</td><td>47.91</td><td>74.00</td><td>-26.09</td><td>59.69</td><td>44.78</td><td>9.21</td><td>56.23</td><td>-9.54</td><td>--</td><td>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	cm	deg	1	39446.03	47.91	74.00	-26.09	59.69	44.78	9.21	56.23	-9.54	--	PEAK	<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>39737.17</td><td>46.46</td><td>74.00</td><td>-27.54</td><td>57.99</td><td>44.55</td><td>9.28</td><td>55.82</td><td>-9.54</td><td>--</td><td>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	cm	deg	1	39737.17	46.46	74.00	-27.54	57.99	44.55	9.28	55.82	-9.54	--
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1	39446.03	47.91	74.00	-26.09	59.69	44.78	9.21	56.23	-9.54	--	PEAK																																																																																					
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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	39737.17	46.46	74.00	-27.54	57.99	44.55	9.28	55.82	-9.54	--	PEAK																																																																																					

<Sample 7>

C3.1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 46	U-NII-3	5.725-5.85	0	802.11a	149	5745	6Mbps	-	-
Mode 47	U-NII-3	5.725-5.85	0	802.11a	157	5785	6Mbps	-	-
Mode 48	U-NII-3	5.725-5.85	0	802.11a	165	5825	6Mbps	-	-
Mode 49	U-NII-3	5.725-5.85	1	802.11a	149	5745	6Mbps	-	-
Mode 50	U-NII-3	5.725-5.85	1	802.11a	157	5785	6Mbps	-	-
Mode 51	U-NII-3	5.725-5.85	1	802.11a	165	5825	6Mbps	-	-
Mode 52	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	-
Mode 53	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	157	5785	MCS0	-	-
Mode 54	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	165	5825	MCS0	-	-
Mode 55	U-NII-3	5.725-5.85	0+1	802.11ac VHT40	151	5755	MCS0	-	-
Mode 56	U-NII-3	5.725-5.85	0+1	802.11ac VHT40	159	5795	MCS0	-	-
Mode 57	U-NII-3	5.725-5.85	0+1	802.11ac VHT80	155	5775	MCS0	-	-
Mode 58	U-NII-3	5.725-5.85	0+1	802.11ax HE20	149	5745	MCS0	-	-
Mode 59	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	LF
Mode 155	U-NII-3	5.725-5.85	0+1	802.11ac VHT20	149	5745	MCS0	-	SHF

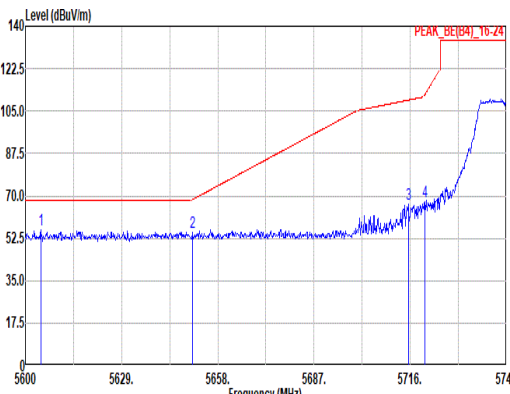
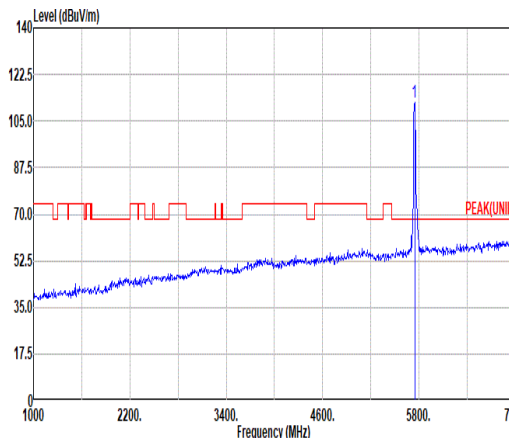
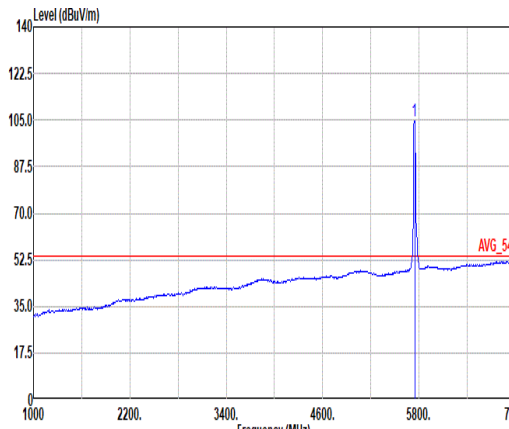
C3.2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
46	802.11a	149	5604.64	55.85	68.20	-12.35	H	Peak	Pass	-	Band Edge
	802.11a	149	11490.00	50.32	54.00	-3.68	V	Avg.	Pass	-	Harmonic
47	802.11a	157	5933.50	56.29	68.20	-11.91	H	Peak	Pass	-	Band Edge
	802.11a	157	9266.00	61.41	68.20	-6.79	V	Peak	Pass	-	Harmonic
48	802.11a	165	5939.13	57.65	68.20	-10.55	H	Peak	Pass	-	Band Edge
	802.11a	165	11650.00	48.69	54.00	-5.31	V	Avg.	Pass	-	Harmonic
49	802.11a	149	5631.61	56.26	68.20	-11.94	V	Peak	Pass	-	Band Edge
	802.11a	149	11490.00	48.03	54.00	-5.97	H	Avg.	Pass	-	Harmonic
50	802.11a	157	5942.58	57.36	68.20	-10.84	H	Peak	Pass	-	Band Edge
	802.11a	157	9266.00	61.36	68.20	-6.84	V	Peak	Pass	-	Harmonic
51	802.11a	165	5949.25	57.21	68.20	-10.99	V	Peak	Pass	-	Band Edge
	802.11a	165	11650.00	45.69	54.00	-8.31	H	Avg.	Pass	-	Harmonic
52	802.11ac VHT20	149	5612.47	56.18	68.20	-12.02	V	Peak	Pass	-	Band Edge
	802.11ac VHT20	149	11490.00	53.80	54.00	-0.20	H	Avg.	Pass	-	Harmonic
53	802.11ac VHT20	157	5932.18	56.31	68.20	-11.89	H	Peak	Pass	-	Band Edge
	802.11ac VHT20	157	9266.00	61.70	68.20	-6.50	V	Peak	Pass	-	Harmonic

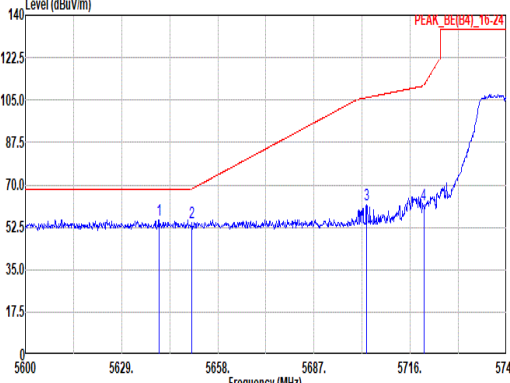
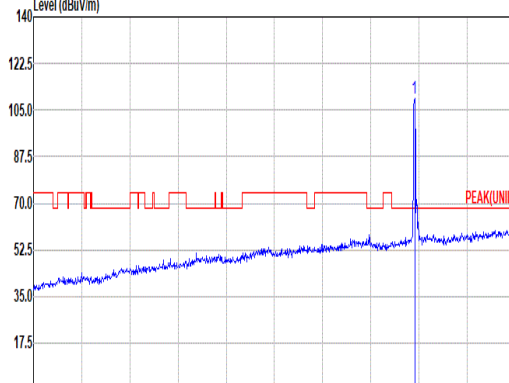
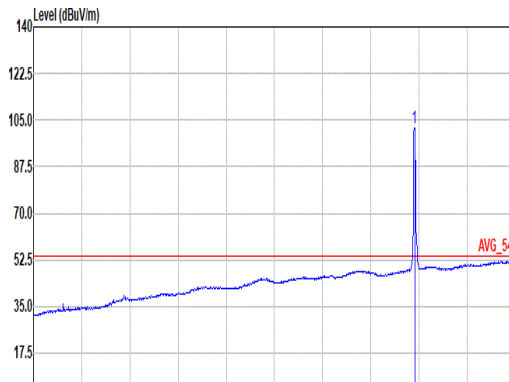


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
54	802.11ac VHT20	165	5925.00	57.45	68.20	-10.75	V	Peak	Pass	-	Band Edge
	802.11ac VHT20	165	11650.00	52.30	54.00	-1.70	H	Avg.	Pass	-	Harmonic
55	802.11ac VHT40	151	5927.77	57.21	68.20	-10.99	H	Peak	Pass	-	Band Edge
	802.11ac VHT40	151	11510.00	49.74	54.00	-4.26	H	Avg.	Pass	-	Harmonic
56	802.11ac VHT40	159	5946.44	57.23	68.20	-10.97	V	Peak	Pass	-	Band Edge
	802.11ac VHT40	159	11590.00	49.11	54.00	-4.89	H	Avg.	Pass	-	Harmonic
57	802.11ac VHT80	155	5938.80	57.69	68.20	-10.51	V	Peak	Pass	-	Band Edge
	802.11ac VHT80	155	11550.00	46.17	54.00	-7.83	V	Avg.	Pass	-	Harmonic
58	802.11ax HE20	149	5603.48	56.01	68.20	-12.19	V	Peak	Pass	-	Band Edge
	802.11ax HE20	149	11490.00	45.34	54.00	-8.66	V	Avg.	Pass	-	Harmonic
59	802.11ac VHT20	149	319.06	38.10	46.00	-7.90	V	Peak	Pass	-	LF
155	802.11ac VHT20	149	38415.90	47.70	68.20	-20.50	V	Peak	Pass	-	SHF

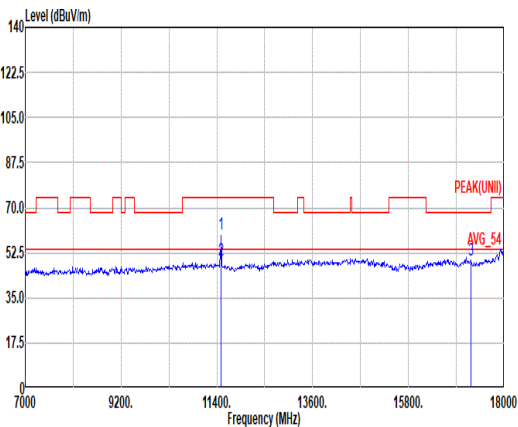
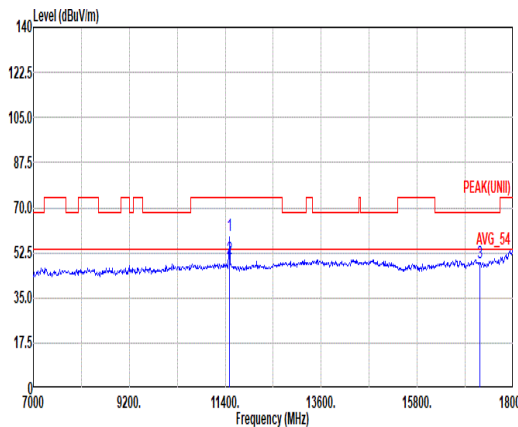


Mode	46																																																																																																															
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Pol.	Horizontal	Fundamental																																																																																																														
Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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>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 deg</th></tr><tr><td>1</td><td>5604.64</td><td>55.85</td><td>68.20</td><td>-12.35</td><td>40.55</td><td>32.82</td><td>11.85</td><td>29.37</td><td>0.00 227 185 PEAK</td></tr><tr><td>2</td><td>5650.32</td><td>54.73</td><td>68.43</td><td>-13.70</td><td>39.22</td><td>33.00</td><td>11.89</td><td>29.38</td><td>0.00 227 185 PEAK</td></tr><tr><td>3</td><td>5715.42</td><td>66.69</td><td>109.52</td><td>-42.83</td><td>50.71</td><td>33.43</td><td>11.94</td><td>29.39</td><td>0.00 227 185 PEAK</td></tr><tr><td>4</td><td>5720.35</td><td>67.48</td><td>111.60</td><td>-44.12</td><td>51.48</td><td>33.44</td><td>11.95</td><td>29.39</td><td>0.00 227 185 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	5604.64	55.85	68.20	-12.35	40.55	32.82	11.85	29.37	0.00 227 185 PEAK	2	5650.32	54.73	68.43	-13.70	39.22	33.00	11.89	29.38	0.00 227 185 PEAK	3	5715.42	66.69	109.52	-42.83	50.71	33.43	11.94	29.39	0.00 227 185 PEAK	4	5720.35	67.48	111.60	-44.12	51.48	33.44	11.95	29.39	0.00 227 185 PEAK	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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>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 deg</th></tr><tr><td>1</td><td>5745.00</td><td>111.78</td><td>-----</td><td>-----</td><td>95.72</td><td>33.49</td><td>11.97</td><td>29.40</td><td>0.00 227 185 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	5745.00	111.78	-----	-----	95.72	33.49	11.97	29.40	0.00 227 185 PEAK
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Avg.	Blank	 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz 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>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 deg</th></tr><tr><td>1</td><td>5745.00</td><td>104.61</td><td>-----</td><td>-----</td><td>88.57</td><td>33.48</td><td>11.96</td><td>29.40</td><td>0.00 227 185 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	5745.00	104.61	-----	-----	88.57	33.48	11.96	29.40	0.00 227 185 AVERAGE																																																																						
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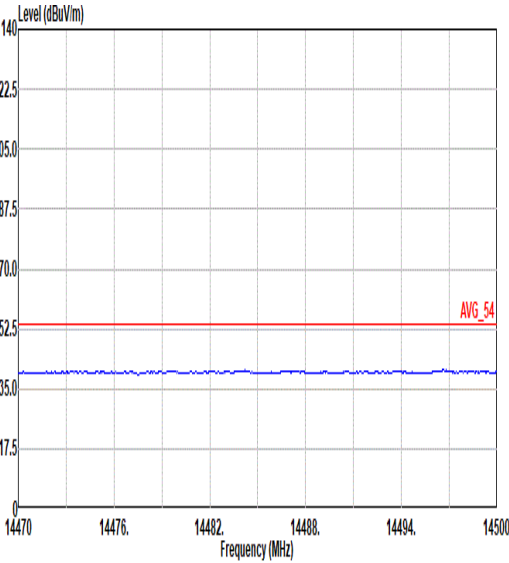
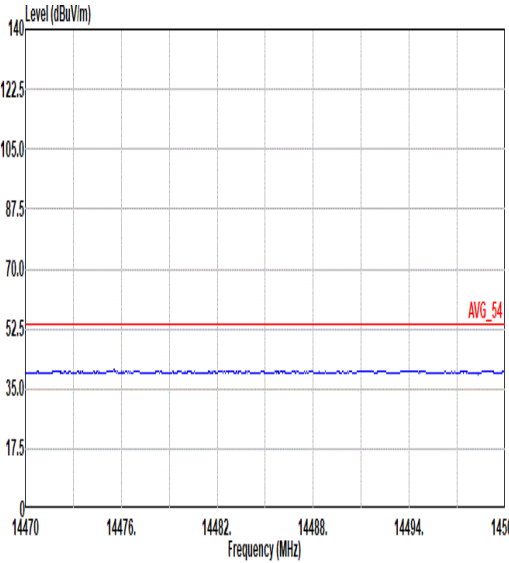
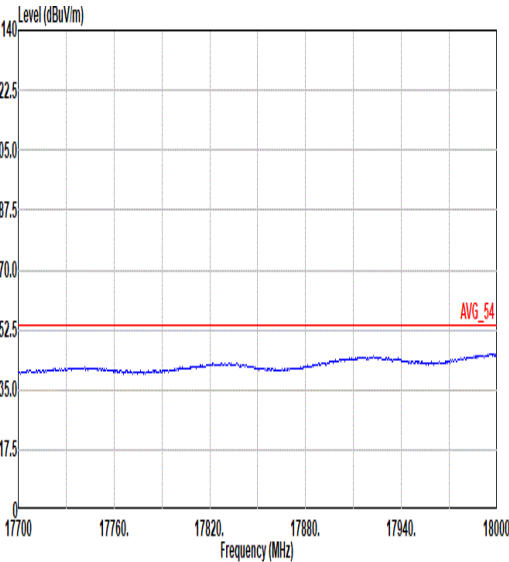
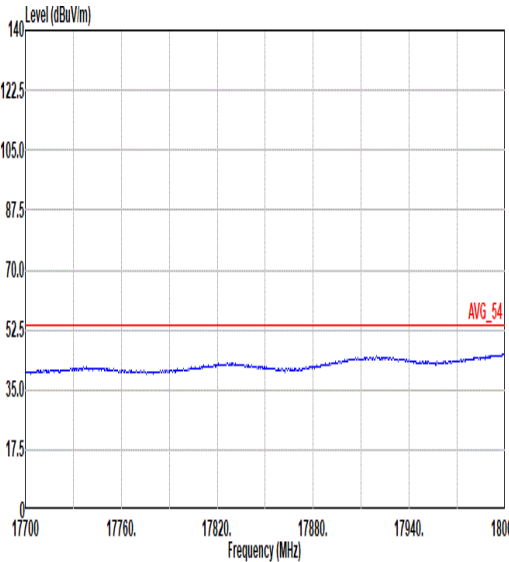


Mode	46																																																																																																															
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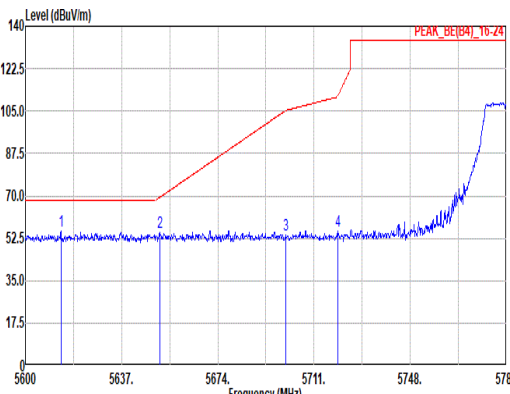
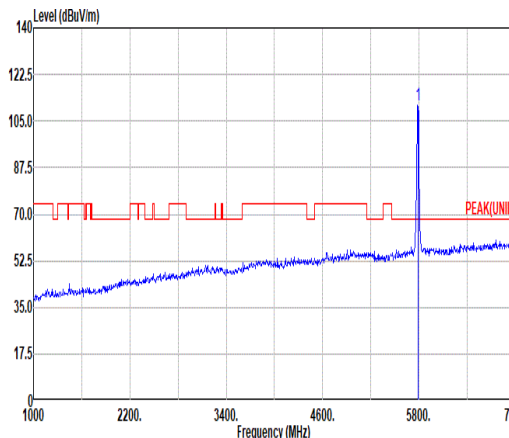
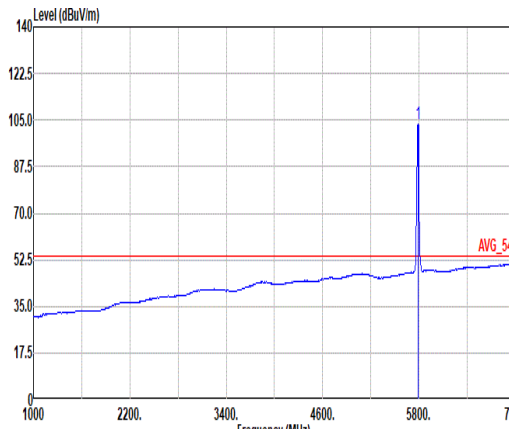


Mode	46																																																																																			
	Harmonic																																																																																			
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz																																																																																			
ANT	0																																																																																			
Pol.	Horizontal						Vertical																																																																													
Peak Avg.																																																																																				
	Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 HORIZONTAL						Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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></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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>11490.00</td><td>59.90</td><td>74.00</td><td>-14.10</td><td>69.21</td><td>38.98</td><td>17.04</td><td>65.77</td><td>0.44</td><td>113</td><td>345</td><td>PEAK</td></tr><tr><td>2</td><td>11490.00</td><td>49.65</td><td>54.00</td><td>-4.35</td><td>58.96</td><td>38.98</td><td>17.04</td><td>65.77</td><td>0.44</td><td>113</td><td>345</td><td>AVERAGE</td></tr><tr><td>3</td><td>17235.00</td><td>49.90</td><td>68.20</td><td>-18.30</td><td>55.12</td><td>38.44</td><td>21.32</td><td>65.61</td><td>0.63</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	11490.00	59.90	74.00	-14.10	69.21	38.98	17.04	65.77	0.44	113	345	PEAK	2	11490.00	49.65	54.00	-4.35	58.96	38.98	17.04	65.77	0.44	113	345	AVERAGE	3	17235.00	49.90	68.20	-18.30	55.12	38.44	21.32	65.61	0.63	--	--	PEAK
	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	11490.00	59.90	74.00	-14.10	69.21	38.98	17.04	65.77	0.44	113	345	PEAK																																																																								
2	11490.00	49.65	54.00	-4.35	58.96	38.98	17.04	65.77	0.44	113	345	AVERAGE																																																																								
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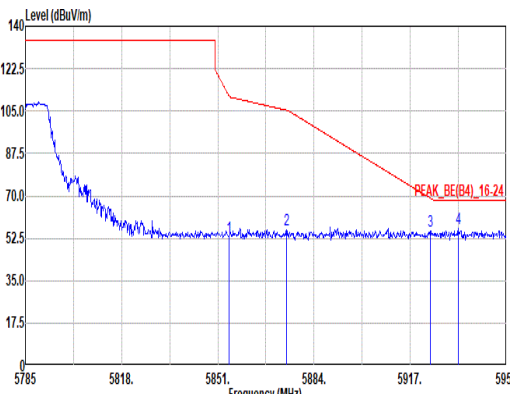


Mode	46	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH149_5745MHz	
ANT	0	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL

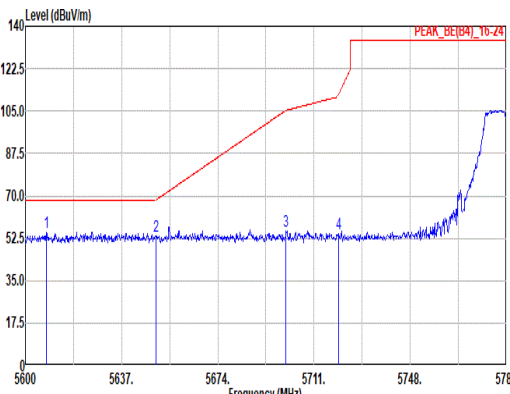
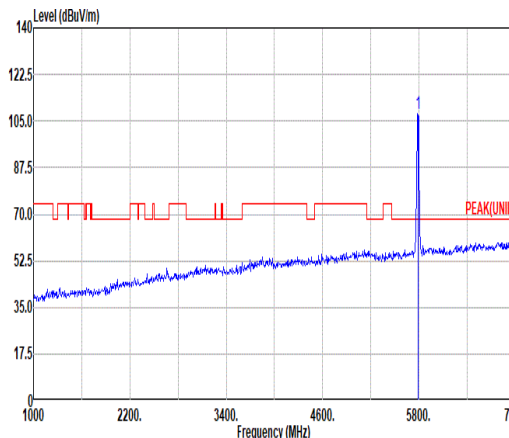
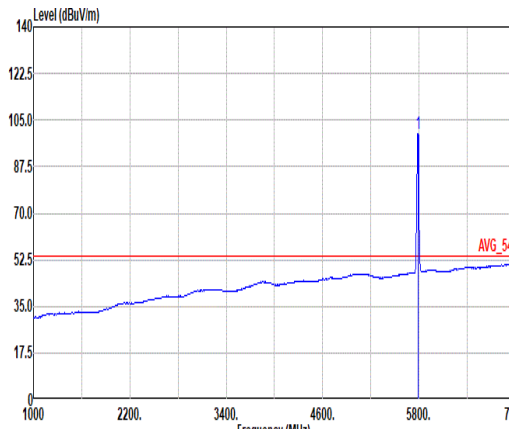


Mode	47																																																																																																																																									
	Band Edge - L																																																																																																																																									
	U-NII-3_5.725-5.85_802.11a_CH157_5785MHz																																																																																																																																									
ANT	0																																																																																																																																									
Pol.	Horizontal						Fundamental																																																																																																																																			
Peak																																																																																																																																										
	Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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>5613.69</td><td>55.26</td><td>68.20</td><td>-12.94</td><td>40.12</td><td>32.85</td><td>11.66</td><td>29.37</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>2</td><td>5651.62</td><td>54.83</td><td>69.40</td><td>-14.57</td><td>39.50</td><td>33.01</td><td>11.70</td><td>29.38</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>3</td><td>5700.27</td><td>53.95</td><td>105.28</td><td>-51.33</td><td>38.18</td><td>33.40</td><td>11.76</td><td>29.39</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>4</td><td>5720.07</td><td>55.62</td><td>110.95</td><td>-55.33</td><td>39.79</td><td>33.44</td><td>11.78</td><td>29.39</td><td>0.00</td><td>101</td><td>168</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	5613.69	55.26	68.20	-12.94	40.12	32.85	11.66	29.37	0.00	101	168	PEAK	2	5651.62	54.83	69.40	-14.57	39.50	33.01	11.70	29.38	0.00	101	168	PEAK	3	5700.27	53.95	105.28	-51.33	38.18	33.40	11.76	29.39	0.00	101	168	PEAK	4	5720.07	55.62	110.95	-55.33	39.79	33.44	11.78	29.39	0.00	101	168	PEAK	Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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>5785.00</td><td>110.86</td><td>-----</td><td>-----</td><td>94.74</td><td>33.69</td><td>11.84</td><td>29.41</td><td>0.00</td><td>101</td><td>168</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	5785.00	110.86	-----	-----	94.74	33.69	11.84	29.41	0.00	101	168
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																		
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1	5613.69	55.26	68.20	-12.94	40.12	32.85	11.66	29.37	0.00	101	168	PEAK																																																																																																																														
2	5651.62	54.83	69.40	-14.57	39.50	33.01	11.70	29.38	0.00	101	168	PEAK																																																																																																																														
3	5700.27	53.95	105.28	-51.33	38.18	33.40	11.76	29.39	0.00	101	168	PEAK																																																																																																																														
4	5720.07	55.62	110.95	-55.33	39.79	33.44	11.78	29.39	0.00	101	168	PEAK																																																																																																																														
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1	5785.00	110.86	-----	-----	94.74	33.69	11.84	29.41	0.00	101	168	PEAK																																																																																																																														
Avg.	Blank																																																																																																																																									
							Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz 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>5785.00</td><td>103.34</td><td>-----</td><td>-----</td><td>87.17</td><td>33.73</td><td>11.85</td><td>29.41</td><td>0.00</td><td>101</td><td>168</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	5785.00	103.34	-----	-----	87.17	33.73	11.85	29.41	0.00	101	168	AVERAGE																																																																																		
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																		
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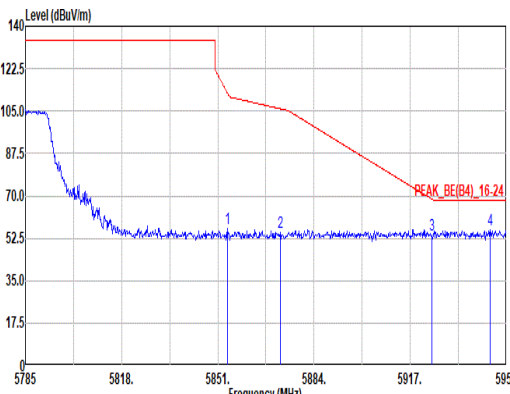


Mode	47																																																																																				
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Pol.	Horizontal	Fundamental																																																																																			
Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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></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>5854.00</td><td>52.99</td><td>111.27</td><td>-58.28</td><td>36.58</td><td>33.92</td><td>11.91</td><td>29.42</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>2</td><td>5874.60</td><td>56.06</td><td>105.31</td><td>-49.25</td><td>39.56</td><td>34.00</td><td>11.92</td><td>29.42</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>3</td><td>5923.93</td><td>55.68</td><td>68.99</td><td>-13.31</td><td>39.04</td><td>34.10</td><td>11.97</td><td>29.43</td><td>0.00</td><td>101</td><td>168</td><td>PEAK</td></tr><tr><td>4</td><td>5933.50</td><td>56.29</td><td>68.20</td><td>-11.91</td><td>39.66</td><td>34.10</td><td>11.97</td><td>29.44</td><td>0.00</td><td>101</td><td>168</td><td>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	cm	deg	1	5854.00	52.99	111.27	-58.28	36.58	33.92	11.91	29.42	0.00	101	168	PEAK	2	5874.60	56.06	105.31	-49.25	39.56	34.00	11.92	29.42	0.00	101	168	PEAK	3	5923.93	55.68	68.99	-13.31	39.04	34.10	11.97	29.43	0.00	101	168	PEAK	4	5933.50	56.29	68.20	-11.91	39.66	34.10	11.97	29.44	0.00	101	168	PEAK	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																																												
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1	5854.00	52.99	111.27	-58.28	36.58	33.92	11.91	29.42	0.00	101	168	PEAK																																																																									
2	5874.60	56.06	105.31	-49.25	39.56	34.00	11.92	29.42	0.00	101	168	PEAK																																																																									
3	5923.93	55.68	68.99	-13.31	39.04	34.10	11.97	29.43	0.00	101	168	PEAK																																																																									
4	5933.50	56.29	68.20	-11.91	39.66	34.10	11.97	29.44	0.00	101	168	PEAK																																																																									

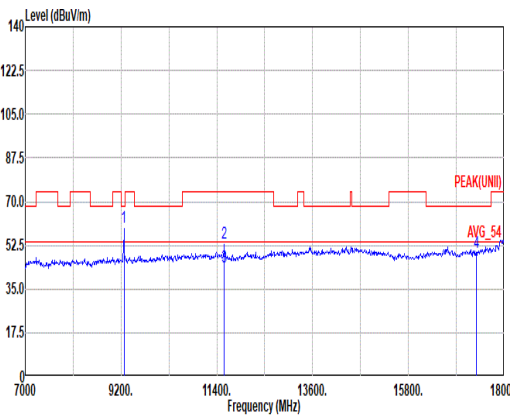
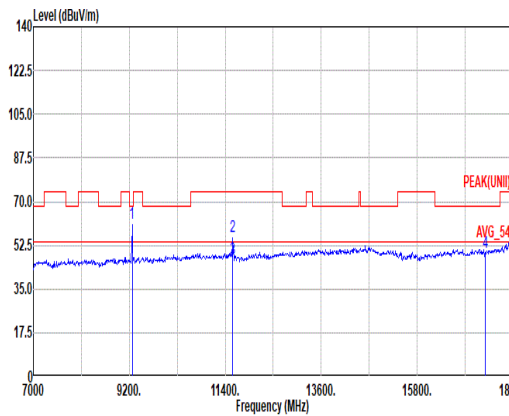


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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																															
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1	5607.96	55.11	68.20	-13.09	39.99	32.83	11.66	29.37	0.00	219	278	PEAK																																																																																																												
2	5650.14	53.54	68.30	-14.76	38.22	33.00	11.70	29.38	0.00	219	278	PEAK																																																																																																												
3	5700.27	55.58	105.28	-49.70	39.81	33.40	11.76	29.39	0.00	219	278	PEAK																																																																																																												
4	5720.44	54.32	111.79	-57.47	38.49	33.44	11.78	29.39	0.00	219	278	PEAK																																																																																																												
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																															
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																																														
1	5785.00	107.89	-----	-----	91.77	33.69	11.84	29.41	0.00	219	278	PEAK																																																																																																												
Avg.	Blank																																																																																																																							
							Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.750kHz 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 colspan="2">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>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5785.00</td><td>100.06</td><td>-----</td><td>-----</td><td>83.94</td><td>33.69</td><td>11.84</td><td>29.41</td><td>0.00</td><td>219</td><td>278</td><td>AVERAGE</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	1	5785.00	100.06	-----	-----	83.94	33.69	11.84	29.41	0.00	219	278	AVERAGE																																																																									
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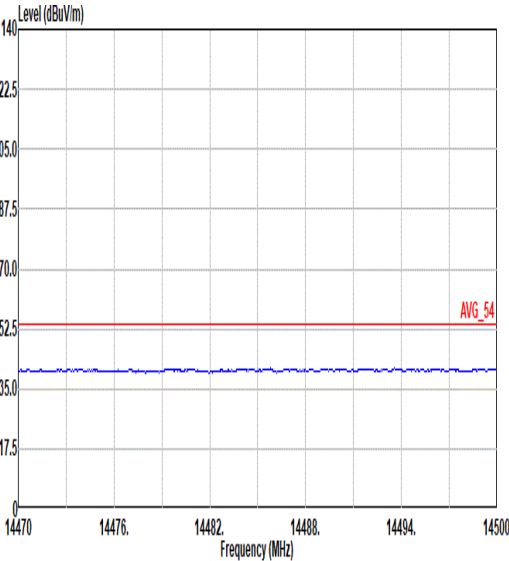
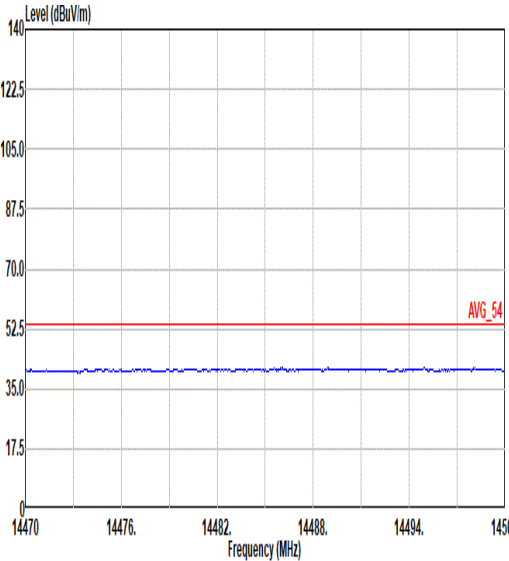
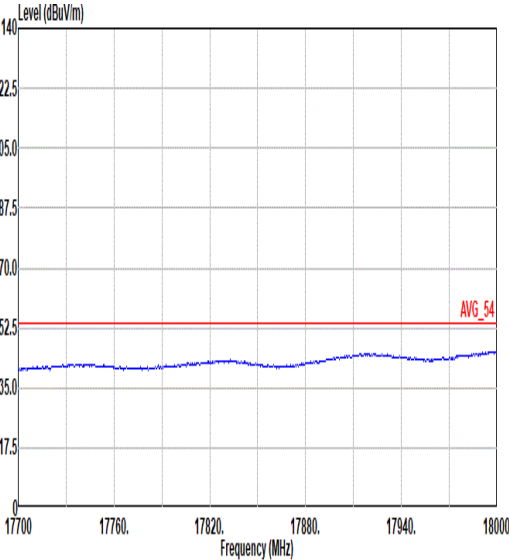
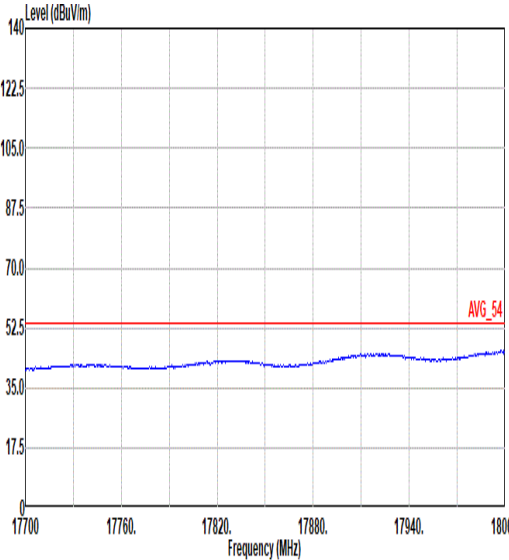


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Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 5854.30</td><td>56.69</td><td>112.40</td><td>-55.71</td><td>40.28</td><td>33.92</td><td>11.91</td><td>29.42</td><td>0.00</td><td>219 278 PEAK</td></tr><tr><td>2 5872.45</td><td>54.76</td><td>105.91</td><td>-51.15</td><td>38.27</td><td>33.99</td><td>11.92</td><td>29.42</td><td>0.00</td><td>219 278 PEAK</td></tr><tr><td>3 5924.43</td><td>54.10</td><td>68.62</td><td>-14.52</td><td>37.46</td><td>34.10</td><td>11.97</td><td>29.43</td><td>0.00</td><td>219 278 PEAK</td></tr><tr><td>4 5944.39</td><td>55.86</td><td>68.20</td><td>-12.34</td><td>39.22</td><td>34.10</td><td>11.98</td><td>29.44</td><td>0.00</td><td>219 278 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	dB/m	dB	dB	dB	cm	deg	1 5854.30	56.69	112.40	-55.71	40.28	33.92	11.91	29.42	0.00	219 278 PEAK	2 5872.45	54.76	105.91	-51.15	38.27	33.99	11.92	29.42	0.00	219 278 PEAK	3 5924.43	54.10	68.62	-14.52	37.46	34.10	11.97	29.43	0.00	219 278 PEAK	4 5944.39	55.86	68.20	-12.34	39.22	34.10	11.98	29.44	0.00	219 278 PEAK	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																
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1 5854.30	56.69	112.40	-55.71	40.28	33.92	11.91	29.42	0.00	219 278 PEAK																																																															
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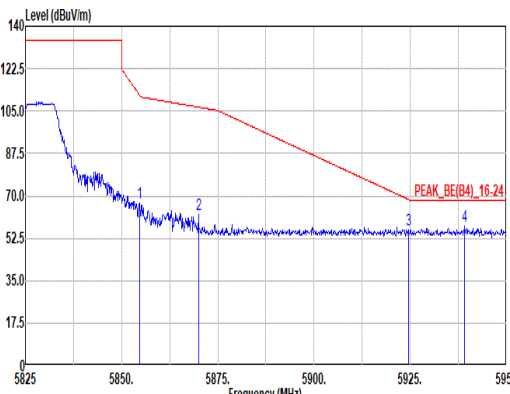
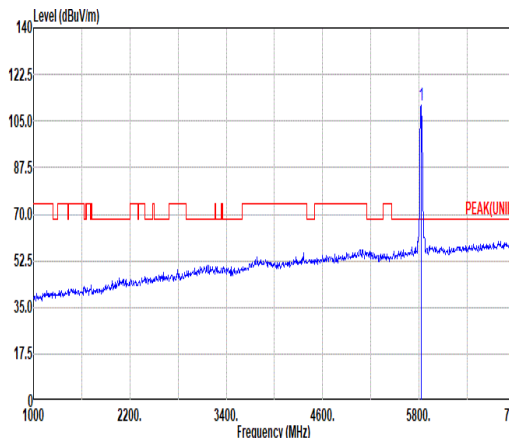
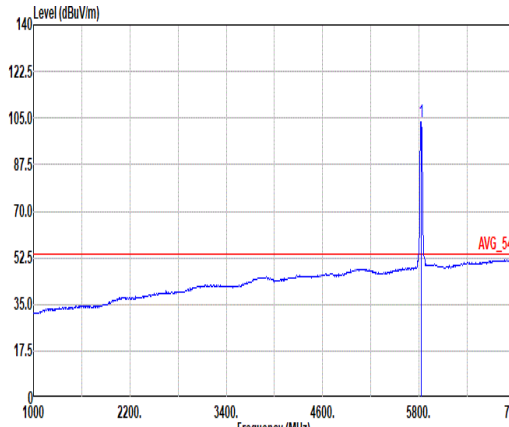


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Pol.	Horizontal						Vertical																																																																																									
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																							
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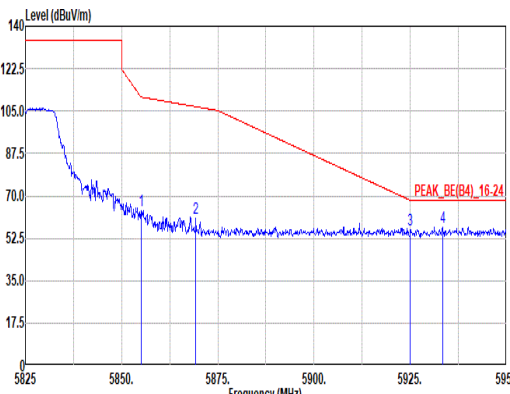
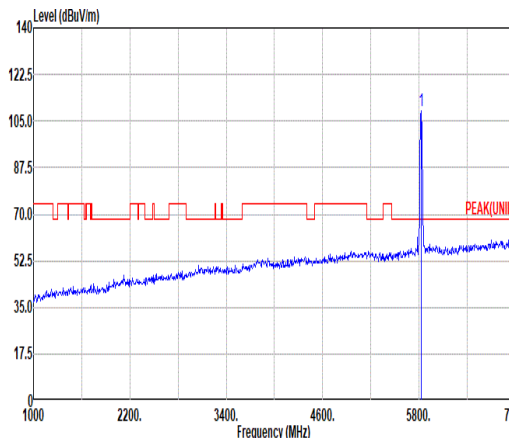
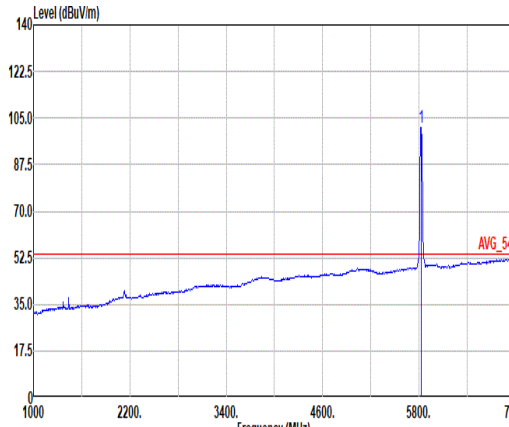


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ANT	0	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
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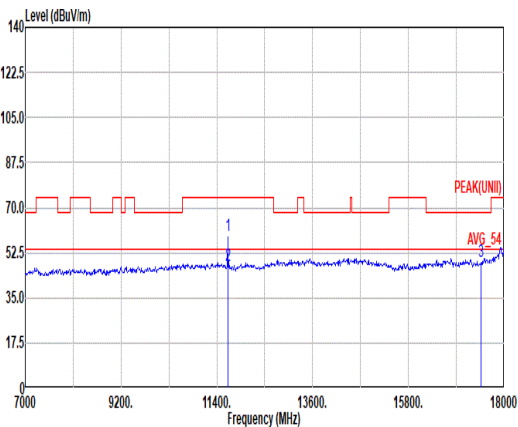
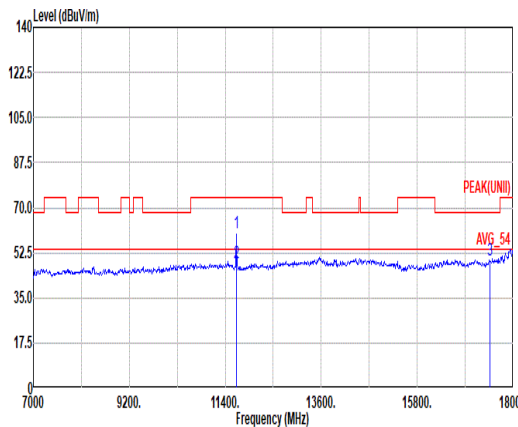


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Pol.	Horizontal						Fundamental																																																																																																																																			
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																	
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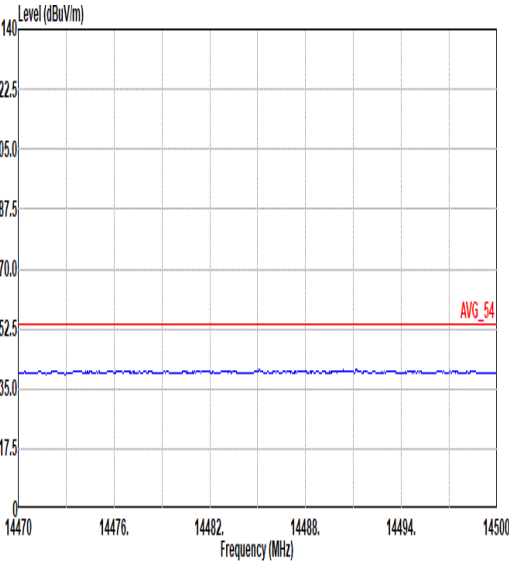
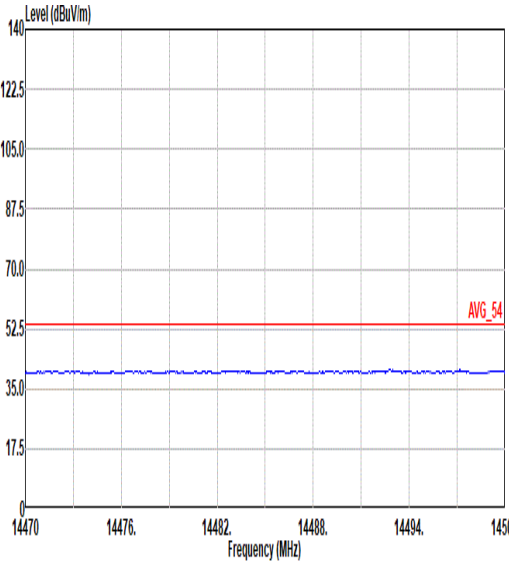
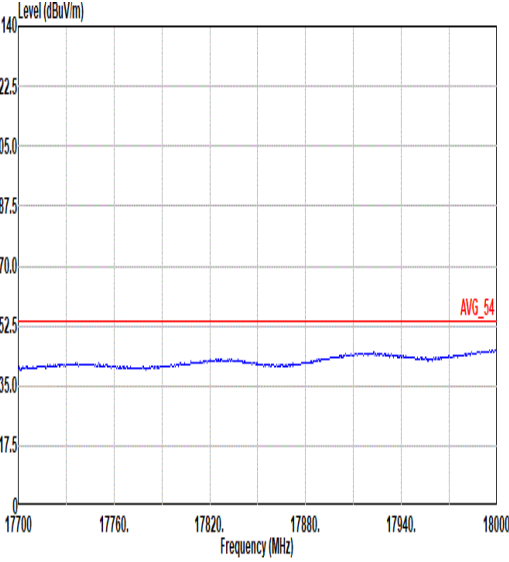
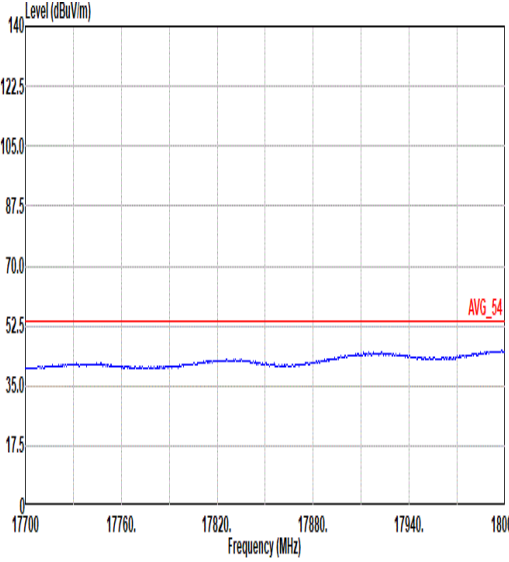


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Peak	 Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>5855.00</td><td>63.81</td><td>110.80</td><td>-46.99</td><td>47.17</td><td>33.92</td><td>12.14</td><td>29.42</td><td>0.00</td><td>200</td><td>269</td><td>PEAK</td></tr><tr><td>2</td><td>5869.25</td><td>60.87</td><td>106.81</td><td>-45.94</td><td>44.13</td><td>33.98</td><td>12.18</td><td>29.42</td><td>0.00</td><td>200</td><td>269</td><td>PEAK</td></tr><tr><td>3</td><td>5925.00</td><td>55.85</td><td>68.20</td><td>-12.35</td><td>38.86</td><td>34.10</td><td>12.32</td><td>29.43</td><td>0.00</td><td>200</td><td>269</td><td>PEAK</td></tr><tr><td>4</td><td>5933.38</td><td>57.03</td><td>68.20</td><td>-11.17</td><td>40.03</td><td>34.10</td><td>12.34</td><td>29.44</td><td>0.00</td><td>200</td><td>269</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	5855.00	63.81	110.80	-46.99	47.17	33.92	12.14	29.42	0.00	200	269	PEAK	2	5869.25	60.87	106.81	-45.94	44.13	33.98	12.18	29.42	0.00	200	269	PEAK	3	5925.00	55.85	68.20	-12.35	38.86	34.10	12.32	29.43	0.00	200	269	PEAK	4	5933.38	57.03	68.20	-11.17	40.03	34.10	12.34	29.44	0.00	200	269	PEAK	 Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 VERTICAL : 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>5825.00</td><td>108.86</td><td>-----</td><td>-----</td><td>92.35</td><td>33.85</td><td>12.07</td><td>29.41</td><td>0.00</td><td>200</td><td>269</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	108.86	-----	-----	92.35	33.85	12.07	29.41	0.00	200	269	PEAK
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																	
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4	5933.38	57.03	68.20	-11.17	40.03	34.10	12.34	29.44	0.00	200	269	PEAK																																																																																																																															
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Avg.	Blank						 Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 VERTICAL : RBW:1000.000kHz VBW:0.010kHz 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 Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>5825.00</td><td>101.57</td><td>-----</td><td>-----</td><td>85.06</td><td>33.85</td><td>12.07</td><td>29.41</td><td>0.00</td><td>200</td><td>269</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	101.57	-----	-----	85.06	33.85	12.07	29.41	0.00	200	269	AVERAGE																																																																																			
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<table><tr><th></th><th></th><th>Limit</th><th></th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></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></th><th></th><th>Remark</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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>11650.00</td><td>59.23</td><td>74.00</td><td>-14.77</td><td>69.17</td><td>38.30</td><td>17.17</td><td>65.85</td><td>0.44</td><td>108</td><td>345</td><td>PEAK</td></tr><tr><td>2</td><td>11650.00</td><td>47.64</td><td>54.00</td><td>-6.36</td><td>57.58</td><td>38.30</td><td>17.17</td><td>65.85</td><td>0.44</td><td>108</td><td>345</td><td>AVERAGE</td></tr><tr><td>3</td><td>17475.00</td><td>49.33</td><td>68.20</td><td>-18.87</td><td>53.82</td><td>38.80</td><td>21.43</td><td>65.35</td><td>0.63</td><td>--</td><td>--</td><td>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	dB	cm	deg		1	11650.00	59.23	74.00	-14.77	69.17	38.30	17.17	65.85	0.44	108	345	PEAK	2	11650.00	47.64	54.00	-6.36	57.58	38.30	17.17	65.85	0.44	108	345	AVERAGE	3	17475.00	49.33	68.20	-18.87	53.82	38.80	21.43	65.35	0.63	--	--	PEAK
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3	17475.00	49.33	68.20	-18.87	53.82	38.80	21.43	65.35	0.63	--	--	PEAK																																																																															

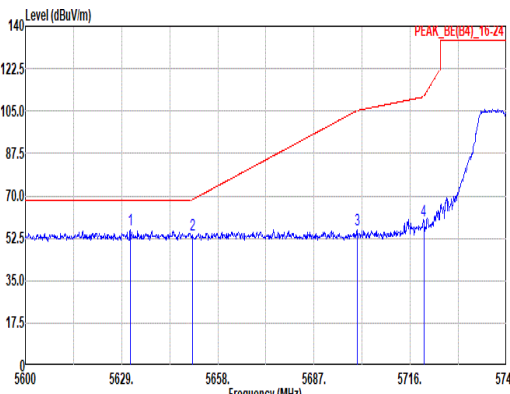
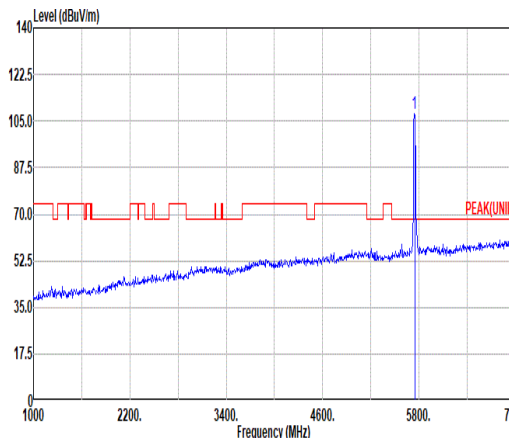
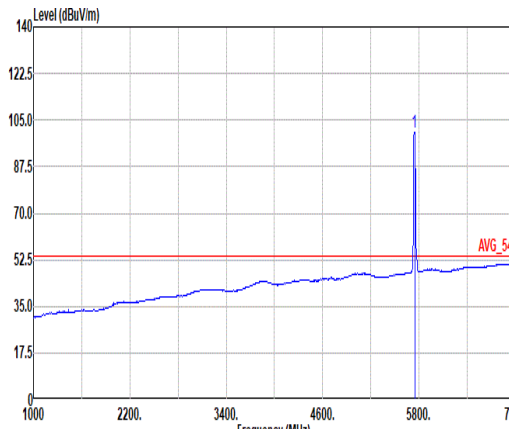


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ANT	0	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL

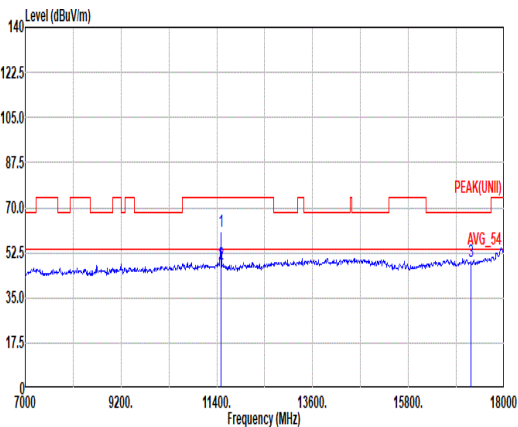
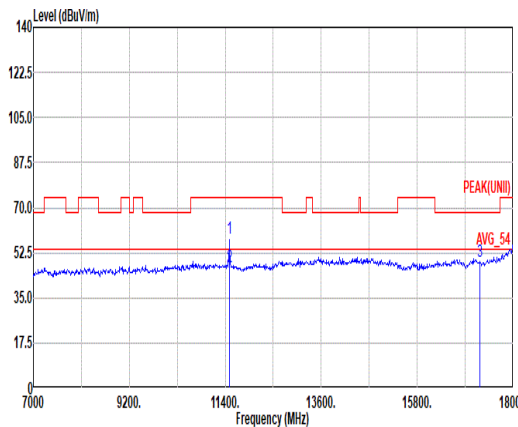


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Pol.	Horizontal						Fundamental																																																																																																																																		
Peak	Level (dBuV/m) Frequency (MHz) Site : 03CH16-HY Condition: PEAK_BE(B4)_16-24 3m 91200-1522_240328 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>5618.27</td><td>55.35</td><td>68.20</td><td>-12.85</td><td>39.99</td><td>32.87</td><td>11.86</td><td>29.37</td><td>0.00</td><td>249</td><td>0</td><td>PEAK</td></tr><tr><td>2</td><td>5651.04</td><td>55.43</td><td>68.97</td><td>-13.54</td><td>39.91</td><td>33.01</td><td>11.89</td><td>29.38</td><td>0.00</td><td>249</td><td>0</td><td>PEAK</td></tr><tr><td>3</td><td>5716.44</td><td>66.77</td><td>109.80</td><td>-43.03</td><td>50.79</td><td>33.43</td><td>11.94</td><td>29.39</td><td>0.00</td><td>249</td><td>0</td><td>PEAK</td></tr><tr><td>4</td><td>5720.06</td><td>66.45</td><td>110.94</td><td>-44.49</td><td>50.45</td><td>33.44</td><td>11.95</td><td>29.39</td><td>0.00</td><td>249</td><td>0</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	5618.27	55.35	68.20	-12.85	39.99	32.87	11.86	29.37	0.00	249	0	PEAK	2	5651.04	55.43	68.97	-13.54	39.91	33.01	11.89	29.38	0.00	249	0	PEAK	3	5716.44	66.77	109.80	-43.03	50.79	33.43	11.94	29.39	0.00	249	0	PEAK	4	5720.06	66.45	110.94	-44.49	50.45	33.44	11.95	29.39	0.00	249	0	PEAK	Level (dBuV/m) Frequency (MHz) Site : 03CH16-HY Condition: PEAK(UNII) 3m 91200-1522_240328 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>112.24</td><td>-----</td><td>-----</td><td>96.20</td><td>33.48</td><td>11.96</td><td>29.40</td><td>0.00</td><td>249</td><td>0</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	5745.00	112.24	-----	-----	96.20	33.48	11.96	29.40	0.00	249	0	PEAK
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Avg.	Blank						Level (dBuV/m) Frequency (MHz) Site : 03CH16-HY Condition: AVG_54 3m 91200-1522_240328 HORIZONTAL : RBW:1000.000kHz VBW:0.750kHz 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 Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>5745.00</td><td>104.63</td><td>-----</td><td>-----</td><td>88.59</td><td>33.48</td><td>11.96</td><td>29.40</td><td>0.00</td><td>249</td><td>0</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	104.63	-----	-----	88.59	33.48	11.96	29.40	0.00	249	0	AVERAGE																																																																																		
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																															
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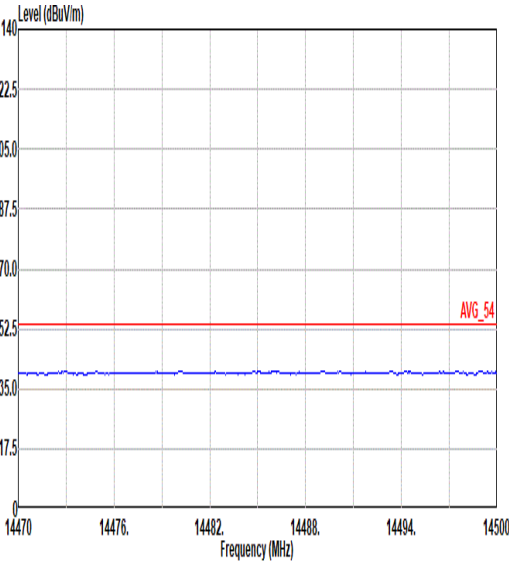
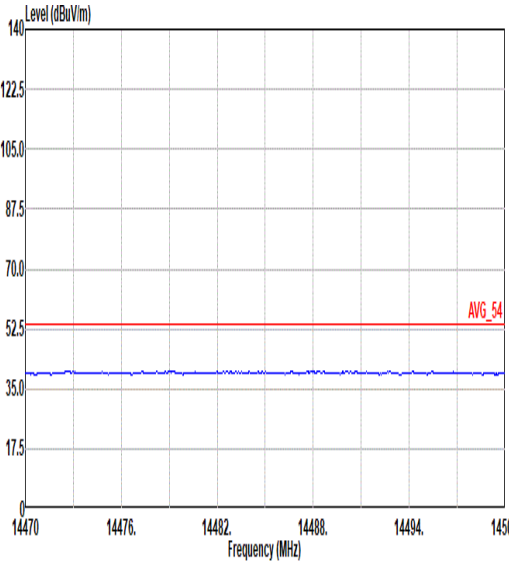
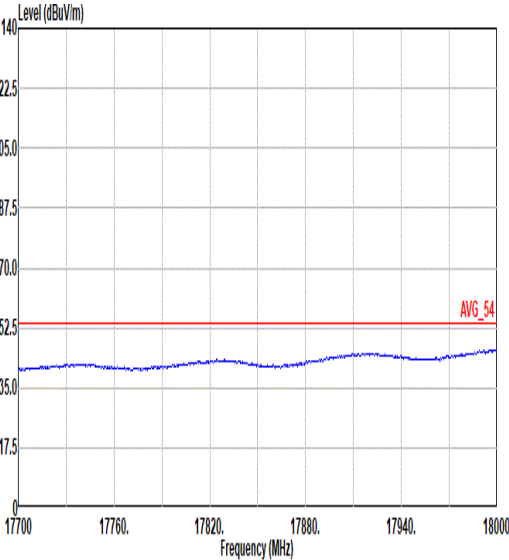
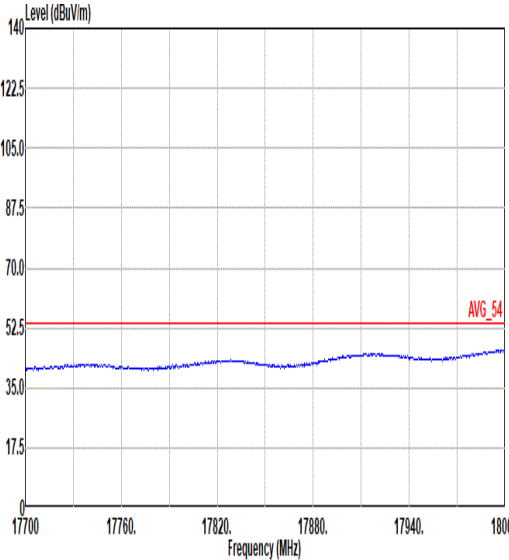


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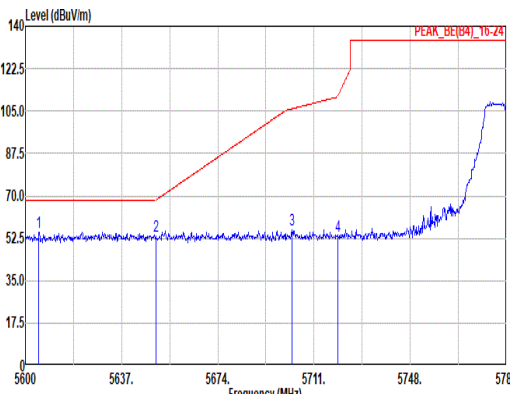
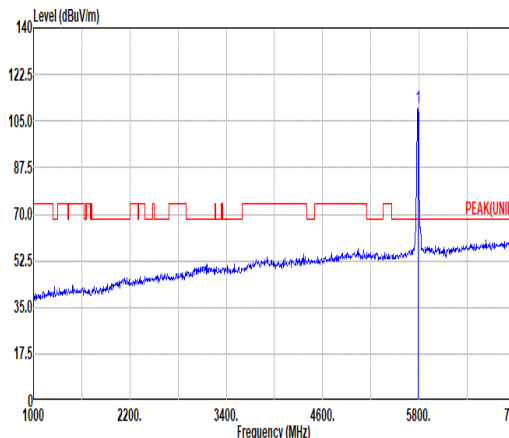
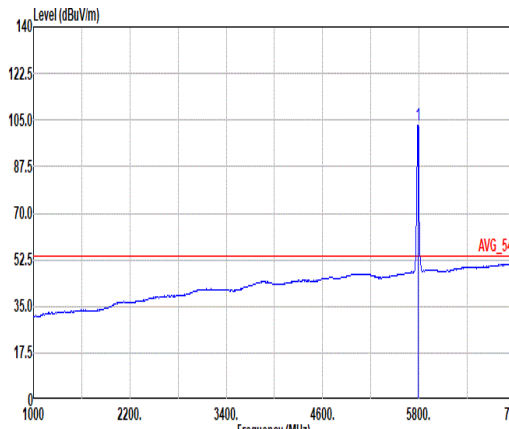


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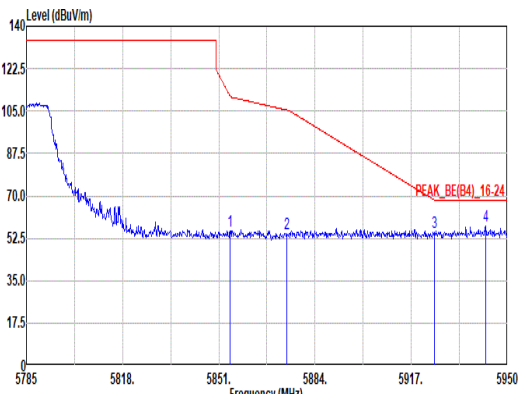


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ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
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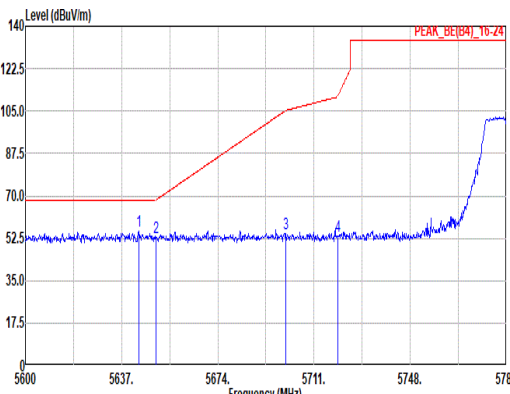
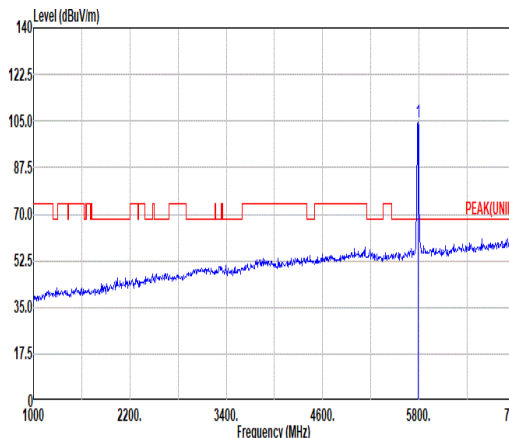
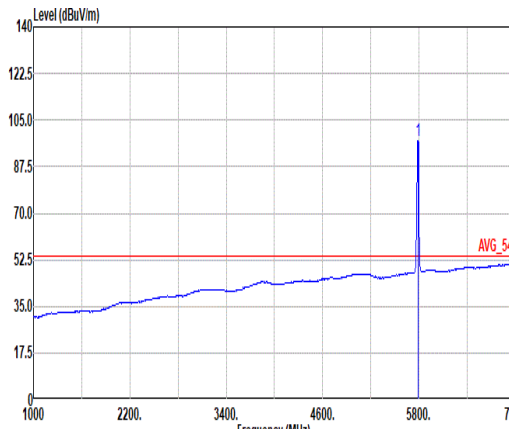


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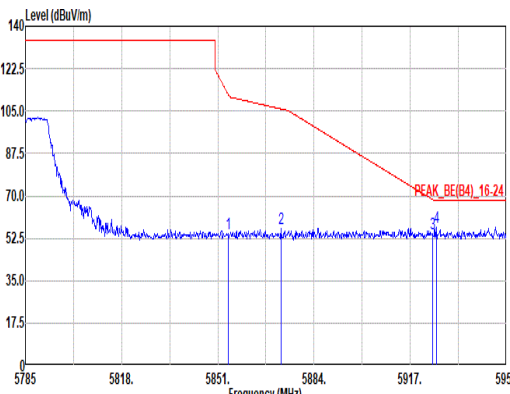


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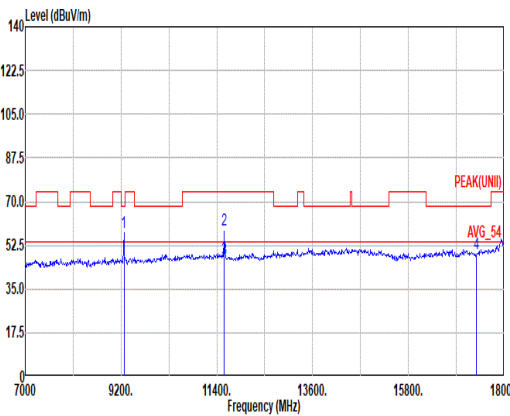
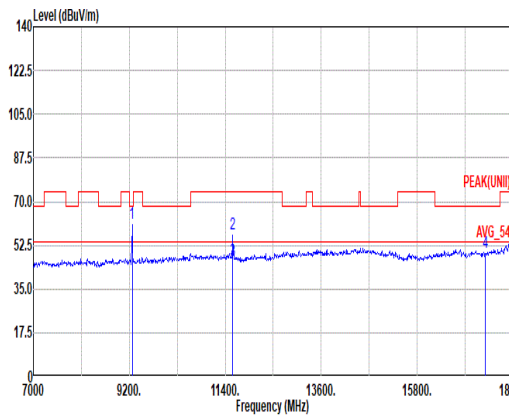


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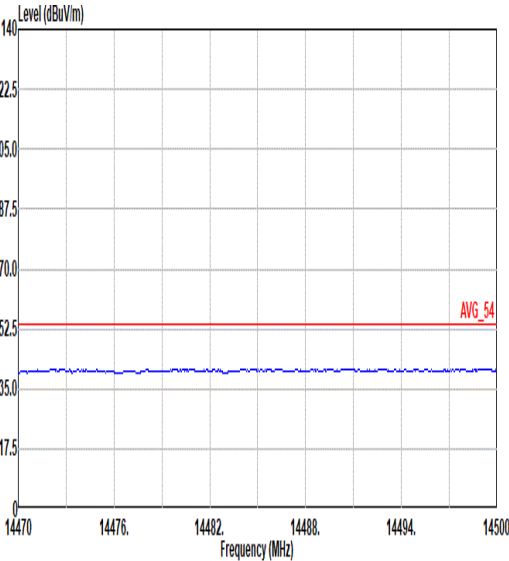
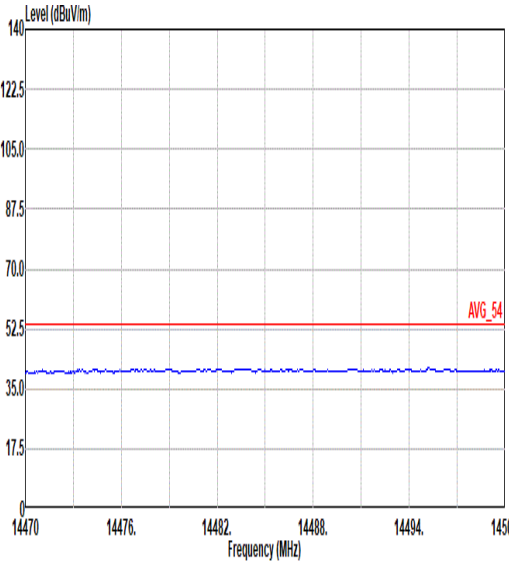
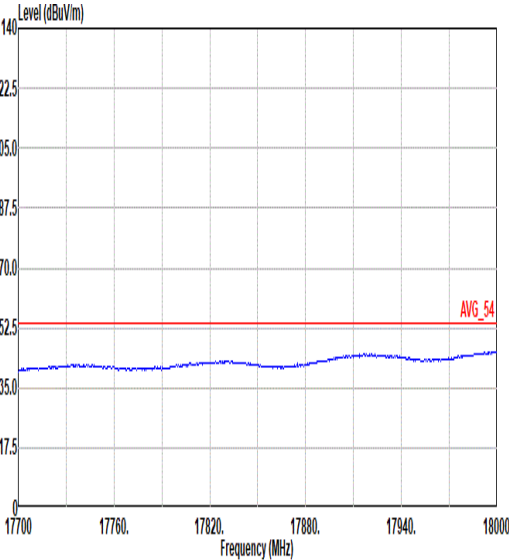
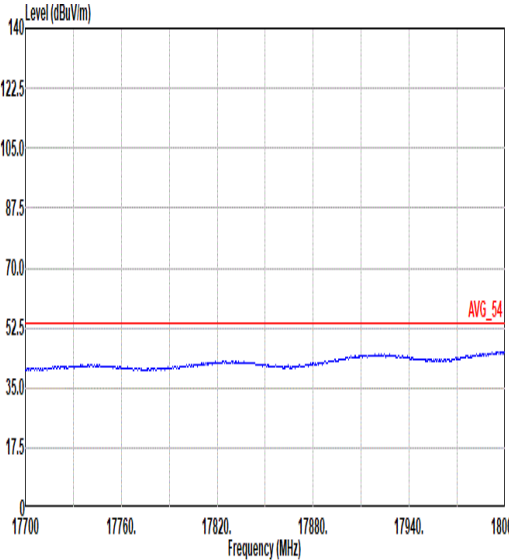


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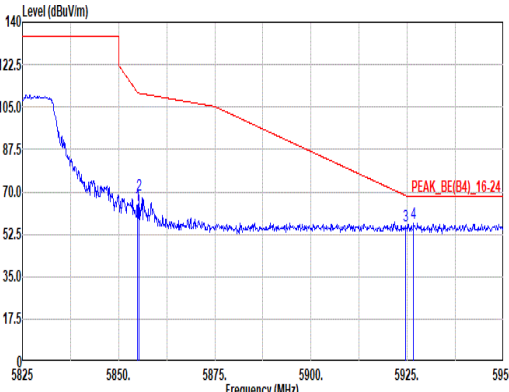
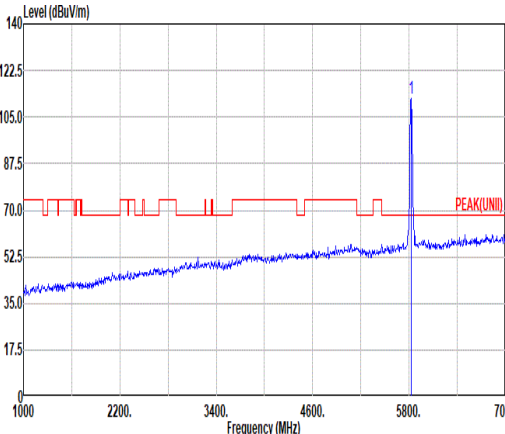
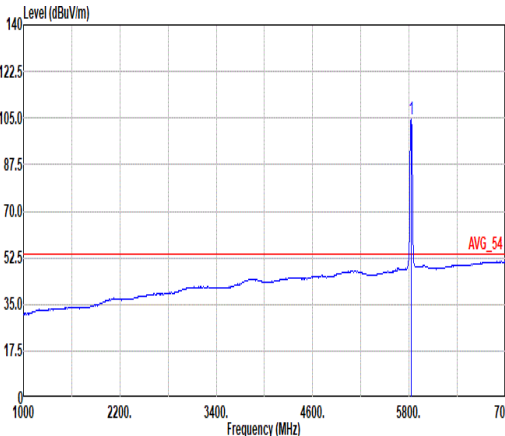


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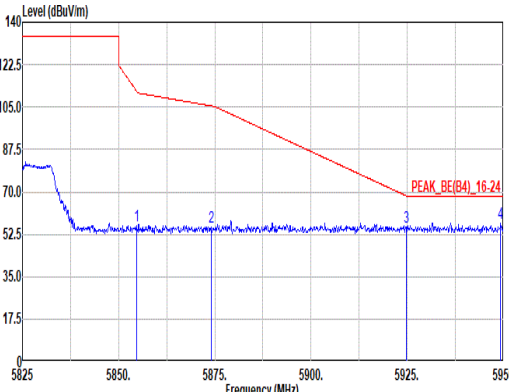
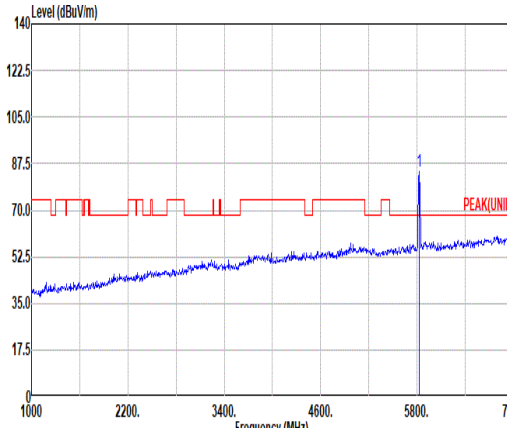
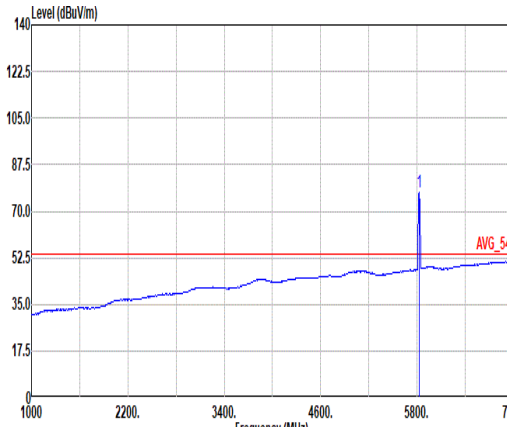


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Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL



Mode	51																																																																																																																																															
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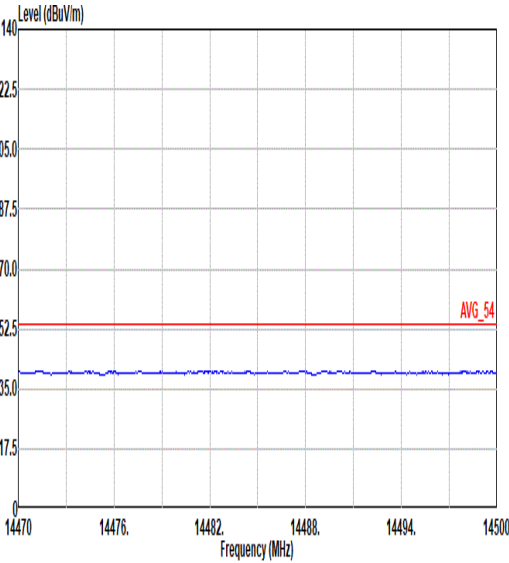
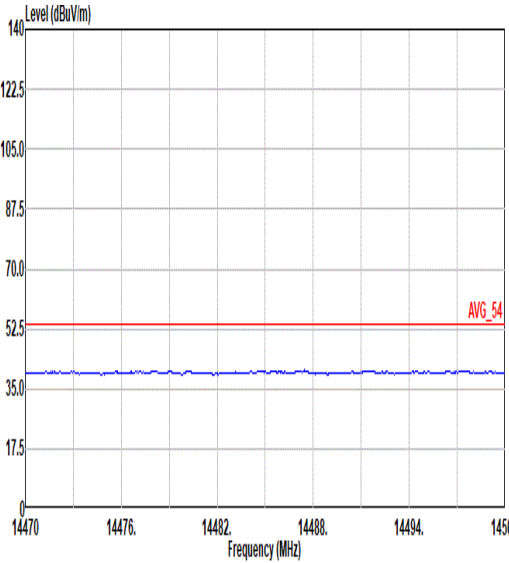
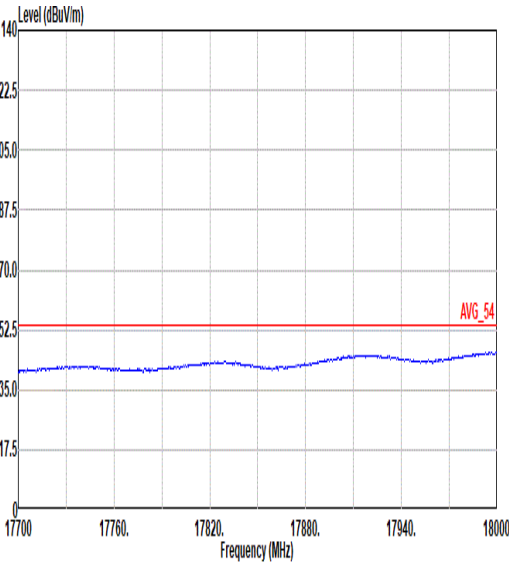
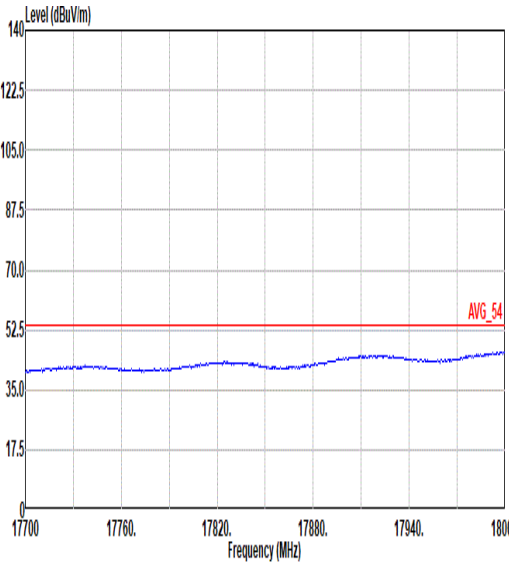


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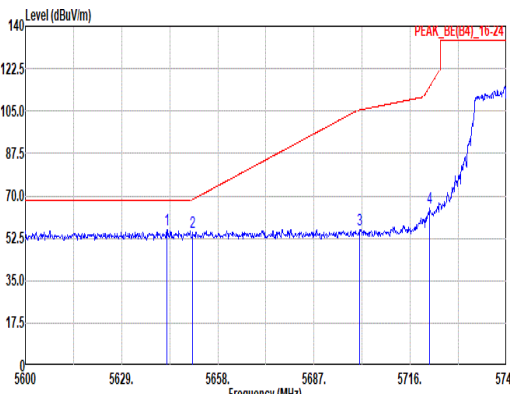
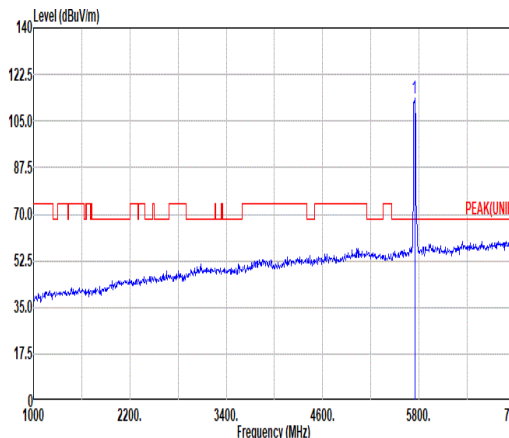
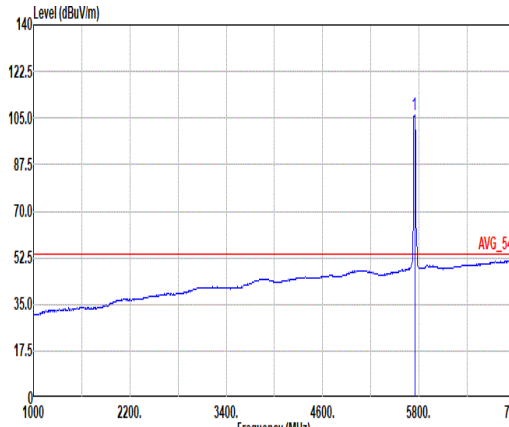


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	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz										
ANT	1										
Pol.	Horizontal										
Peak Avg.	<										



Mode	51	
	Harmonic	
	U-NII-3_5.725-5.85_802.11a_CH165_5825MHz	
ANT	1	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 HORIZONTAL	 Site : 03CH16-HY Condition: AVG_54 3m 91280-1522_240328 VERTICAL
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Mode	52																																																																																																																																									
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