



FCC RADIO TEST REPORT

FCC ID : A4RGTF7P
Equipment : Phone
Model Name : GTF7P, G3Y12
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 21, 2024 and testing was performed from May 22, 2024 to Oct. 01, 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
FR451607E	01	Initial issue of report	Nov. 01, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	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	1.52 dB under the limit at 5725.31 MHz
3.5	15.207	AC Conducted Emission	Pass	12.81 dB under the limit at 0.15 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. ECR inquiry for data referencing from A4RGXQ96 has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. A4RGTF7P is different from FCC ID: A4RGXQ96 (Reference model), in the following:
 - i. The only difference between A4RGXQ96 and A4RGTF7P are the WWAN support bands, which is controlled by software.
3. All the test results are referenced from A4RGXQ96 (Sporton Test Report FR451606E), and spot check results to justify data referencing is presented in the Appendix E.
4. 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.
5. 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 GTF7P and G3Y12 are 100% identical in Hardware / Software to each other, and only have different model names for marketing segmentation.

Reviewed by: William Chen**Report Producer: Wilda Wei**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS.
Antenna Type WLAN: <Ant. 4> : IFA Antenna <Ant. 3> : IFA Antenna

EUT Information List	
S/N	Performed Test Item
44291JEBF05085 46181JEBF10532	RF Conducted Measurement
46181JEBF10894	Radiated Spurious Emission
44291JEBF05116	Conducted Emission

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 4: -2.90 Ant. 3: -3.60
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 4: -2.70 Ant. 3: -2.30
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 4: -1.70 Ant. 3: -1.10
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 4: -1.80 Ant. 3: -3.20

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

1.1.1 Antenna Directional Gain

<For CDD Mode>

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.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 4 (dBi)	Ant 3 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	-2.90	-3.60	-2.90	-0.23	0.00	0.00
Band II	-2.70	-2.30	-2.30	0.51	0.00	0.00
Band III	-1.70	-1.10	-1.10	1.62	0.00	0.00
Band IV	-1.80	-3.20	-1.80	0.54	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT4} = -2.9$ dBi; $G_{ANT3} = -3.6$ dBi

Directional gain of power measurement = $\max(-2.9, -3.6) + 0 = -2.9$ dBi

Directional gain of PSD derived from formula which is

$10 \times \log \{ \{ [10^{(-2.9 \text{ dBi} / 20)} + 10^{(-3.6 \text{ dBi} / 20)}]^2 \} / 2 \}$

= -0.23 dBi

Power and PSD limit reduction = Composite 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. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test items subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

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, 03CH12-HY

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

FCC designation No.: TW1190 and 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.

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 accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane with Adapter as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

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

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

Note:

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

2.2 Test Mode

This device support 26/52/106/242/484/996.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

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

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

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : LTE Band 14 Idle + WLAN (5GHz) Link + Bluetooth Idle + USB Cable 1 (Charging from AC Adapter) + Battery < 50%
Remark: - For Radiated Test Cases, the tests were performed with USB Cable 1. - During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adaptor mode is the worst case for official test.	



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850 MHz
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
				104	
M	Middle	40	60	116	157
		44			
H	High	48	64	136	165
				140	
Straddle		-	-	144	-

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850 MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100	149
				104	
M	Middle	40	60	116	157
		44			
H	High	48	64	136	165
				140	
Straddle		-	-	144	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850 MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

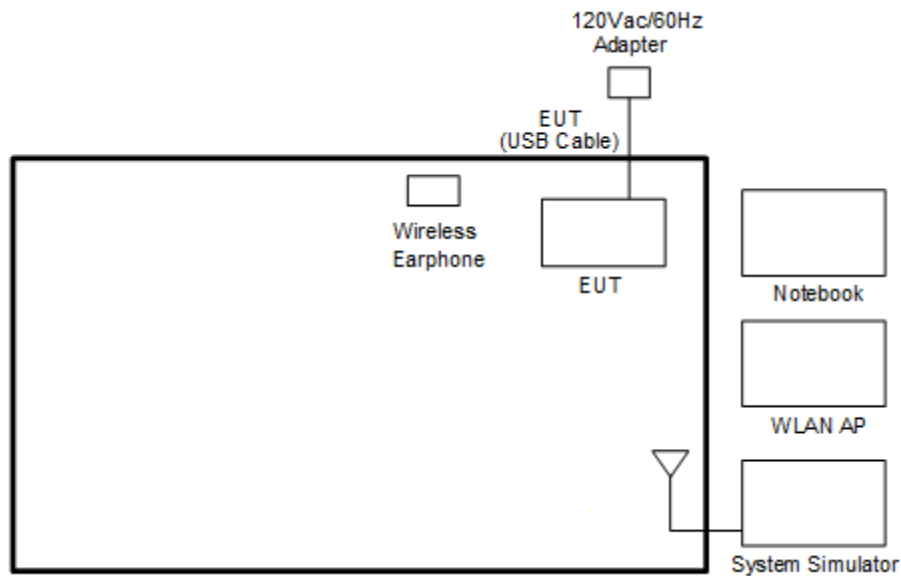


Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850 MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-
Straddle		-	-	138	-

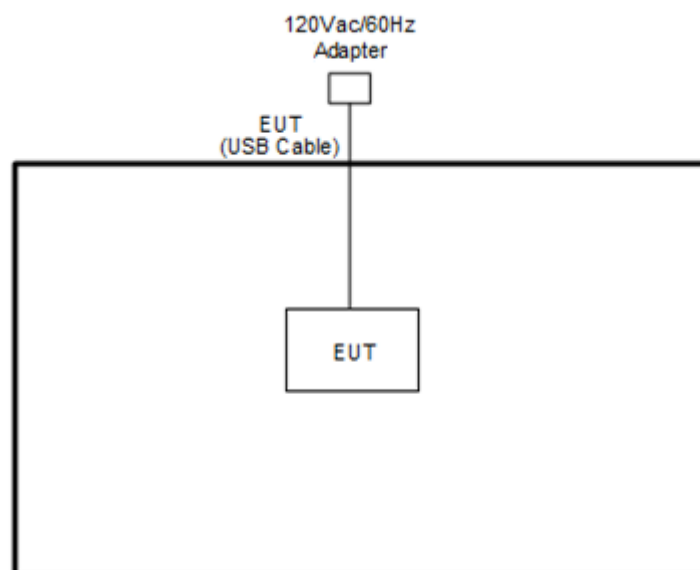
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	ASUS	GT-AXE11000	FCC DoC	N/A	Unshielded,1.8m
3.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Wireless Earphone	N/A	G1007/G1008	A4RG1007/ A4RG1008	N/A	N/A
5.	Adapter	N/A	GW8L7	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Cmd Version 1.0.32.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

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

The 6 dB bandwidth shall be at least 500kHz for 5725-5850MHz.

There is no restriction limits for 26dB and 99% Occupied bandwidth.

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

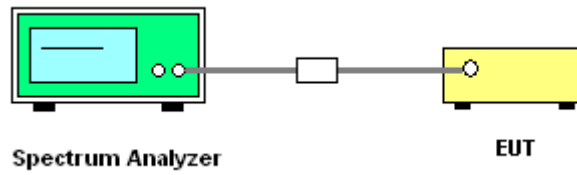
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.
9. For 6dB Bandwidth Measurement
 - (1) The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
 - (2) Section C) Emission bandwidth for the band 5.725-5.85 GHz
 - (3) Set RBW = 100 kHz.
 - (4) Set the VBW $\geq 3 \times RBW$.
 - (5) Detector = Peak.
 - (6) Trace mode = max hold
 - (7) Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
 - (8) 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

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

For the band 5.725–5.85 GHz bands:

■ The maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

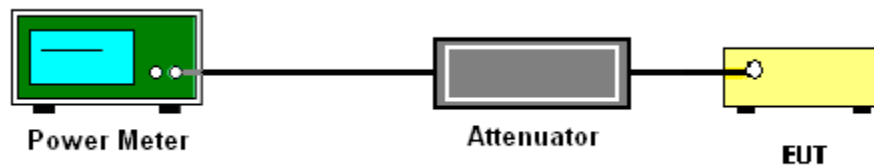
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

For the 5.725–5.85 GHz bands:

The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

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

3.3.2 Measuring Instruments

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



3.3.3 Test Procedures

For the band 5.15-5.725 GHz

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

Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

For the band 5.725–5.85 GHz

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

Section F) Maximum power spectral density.

Method SA-2

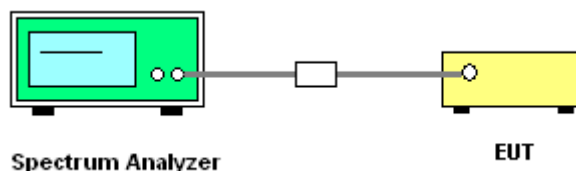
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- 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 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

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

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

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 (dB μ V/m)
- 27	68.3

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) 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

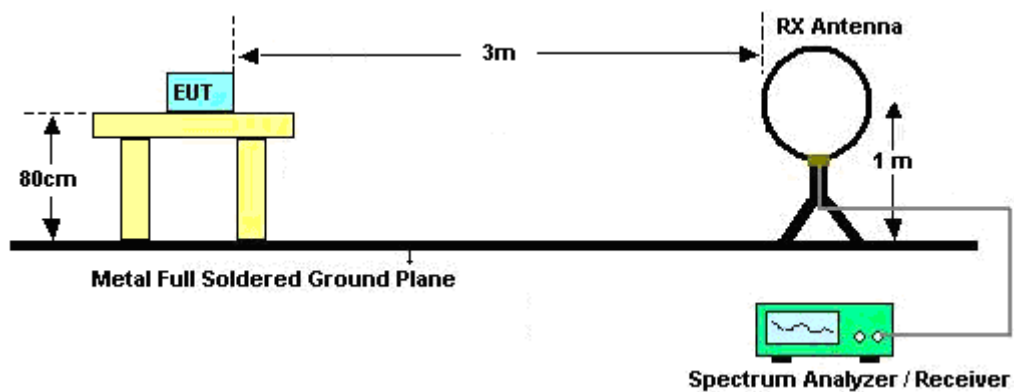
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

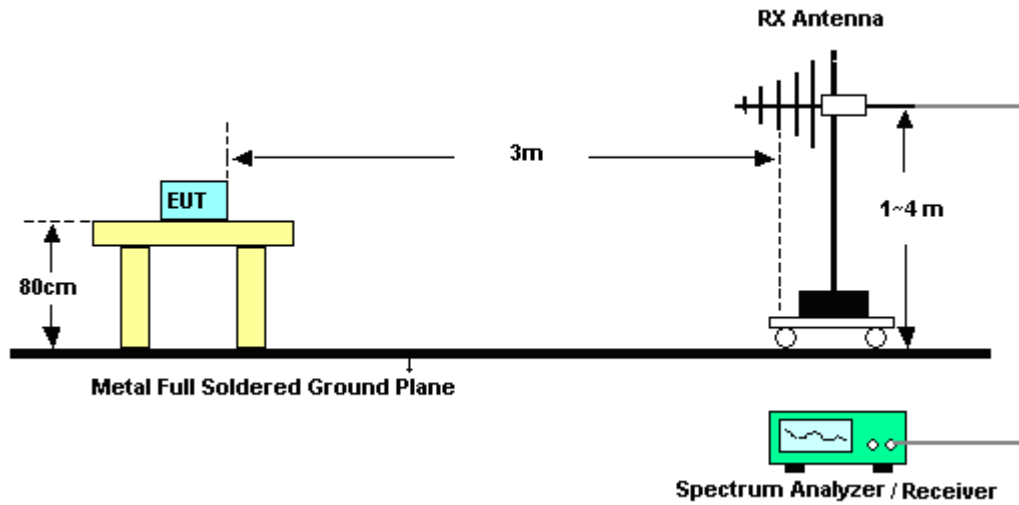
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

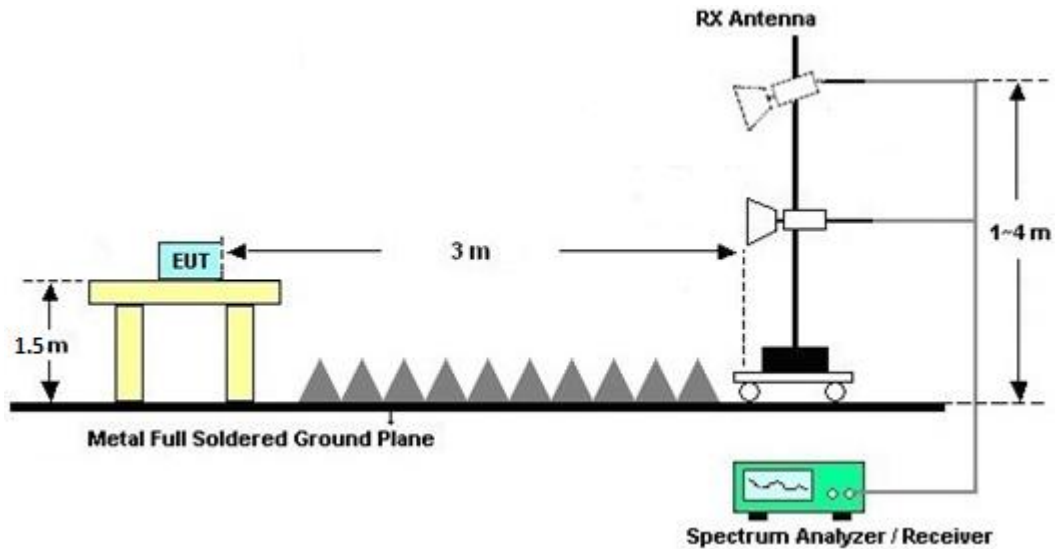
For radiated emissions below 30MHz



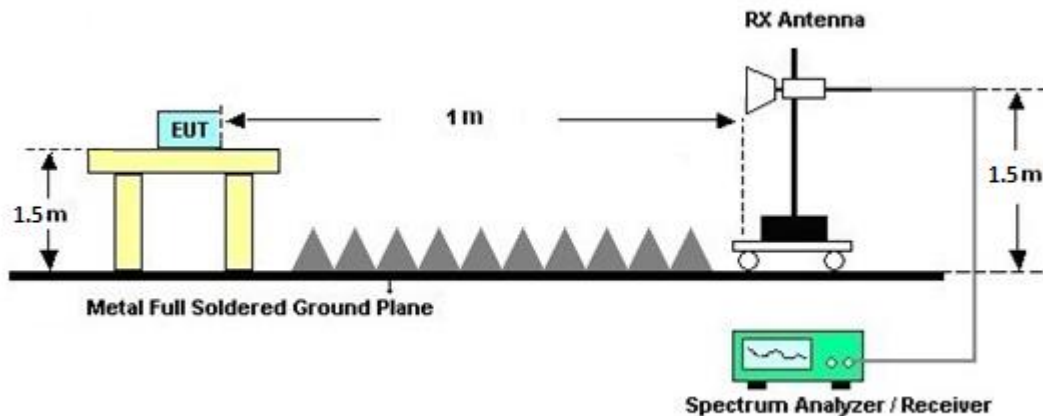
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

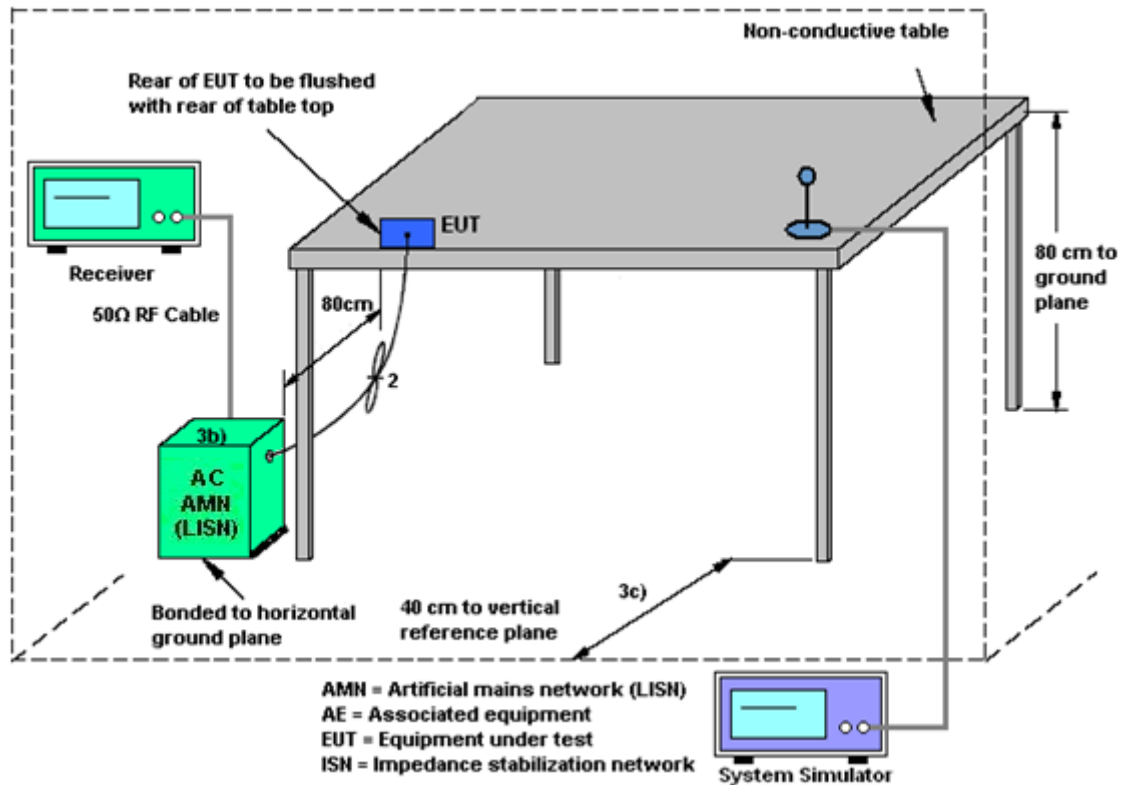
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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

3.6.2 Antenna Anti-Replacement Construction

b) Unique (non-standard) antenna connector.

Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.



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	100315	9 kHz~30 MHz	Feb. 23, 2024	Jul. 11, 2024~ Sep. 26, 2024	Feb. 22, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 03, 2023	Jul. 11, 2024~ Sep. 26, 2024	Nov. 02, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Jul. 11, 2024~ Sep. 26, 2024	Jul. 10, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2023	Jul. 11, 2024~ Sep. 26, 2024	Nov. 23, 2024	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 20, 2024	Jul. 11, 2024~ Sep. 26, 2024	Mar. 19, 2025	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 22, 2024	Jul. 11, 2024~ Sep. 26, 2024	May 21, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 20, 2023	Jul. 11, 2024~ Sep. 26, 2024	Dec. 19, 2024	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Jul. 11, 2024~ Sep. 26, 2024	Dec. 06, 2024	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2024	Jul. 11, 2024~ Aug. 08, 2024	Jan. 09, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Aug. 09, 2024~ Sep. 26, 2024	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Aug. 29, 2023	Jul. 11, 2024~ Aug. 27, 2024	Aug. 28, 2024	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 17, 2024	Aug. 28, 2024~ Sep. 26, 2024	Apr. 16, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-60 SS	SN11	1GHz High Pass Filter	Mar. 13, 2024	Jul. 11, 2024~ Sep. 26, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN2	3GHz High Pass Filter	Mar. 13, 2024	Jul. 11, 2024~ Sep. 26, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 13, 2024	Jul. 11, 2024~ Sep. 26, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Jul. 11, 2024~ Sep. 26, 2024	Mar. 05, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 18, 2023	Jul. 11, 2024~ Sep. 26, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 18, 2023	Jul. 11, 2024~ Sep. 26, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 18, 2023	Jul. 11, 2024~ Sep. 26, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 19, 2023	Jul. 11, 2024~ Sep. 26, 2024	Oct. 18, 2024	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 11, 2024~ Sep. 26, 2024	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 11, 2024~ Sep. 26, 2024	N/A	Radiation (03CH12-HY)
5G Wireless Test Platform	Anritsu	MT8000A	6262134933	FR1	Jun. 27, 2024	Jul. 11, 2024~ Sep. 26, 2024	Jun. 26, 2025	Radiation (03CH12-HY)
Radio Communication Analyze	Anritsu	MT8821C	6262116730	LTE	Jun. 28, 2024	Jul. 11, 2024~ Sep. 26, 2024	Jun. 27, 2025	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 11, 2024~ Sep. 26, 2024	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jul. 11, 2024~ Sep. 26, 2024	N/A	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	May 22, 2024~ Oct. 01, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Jan. 10, 2024	May 22, 2024~ Oct. 01, 2024	Jan. 09, 2025	Conducted (TH05-HY)
Switch Box & RF Cable	E-Instument	ETF-058	EC1208382 (BOX1)	N/A	Apr. 01, 2024	May 22, 2024~ Oct. 01, 2024	Mar. 31, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version1.0	N/A	N/A	N/A	May 22, 2024~ Oct. 01, 2024	N/A	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Dec. 19, 2023	May 22, 2024~ Oct. 01, 2024	Dec. 18, 2024	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 07, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Aug. 07, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Aug. 07, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Aug. 07, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Aug. 07, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Aug. 07, 2024	Jul. 29, 2025	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Aug. 07, 2024	Dec. 27, 2024	Conduction (CO05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.50 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.10 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.30 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.80 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.30 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2024/05/22~2024/10/01	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180	16.93	16.83	20.97	23.79	-		22.26		-	
11a	6Mbps	2	40	5200	19.88	23.88	36.85	37.89	-		22.98			
11a	6Mbps	2	44	5220	27.52	27.30	43.51	45.98	-		23.01			
11a	6Mbps	2	48	5240	17.73	18.38	30.06	35.52	-		22.49			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	36	5180	15.00	15.13	18.08	24.00		-2.90		Pass
11a	6Mbps	2	40	5200	16.70	17.23	19.98	24.00		-2.90		Pass
11a	6Mbps	2	44	5220	17.30	17.23	20.28	24.00		-2.90		Pass
11a	6Mbps	2	48	5240	16.70	16.13	19.43	24.00		-2.90		Pass
HT20	MCS0	2	36	5180	14.20	14.43	17.33	24.00		-2.90		Pass
HT20	MCS0	2	40	5200	16.30	16.73	19.53	24.00		-2.90		Pass
HT20	MCS0	2	44	5220	17.00	16.73	19.88	24.00		-2.90		Pass
HT20	MCS0	2	48	5240	16.40	16.43	19.43	24.00		-2.90		Pass
HT40	MCS0	2	38	5190	10.40	11.13	13.79	24.00		-2.90		Pass
HT40	MCS0	2	46	5230	15.30	15.33	18.33	24.00		-2.90		Pass
VHT20	MCS0	2	36	5180	14.20	14.43	17.33	24.00		-2.90		Pass
VHT20	MCS0	2	40	5200	16.30	16.73	19.53	24.00		-2.90		Pass
VHT20	MCS0	2	44	5220	17.00	16.73	19.88	24.00		-2.90		Pass
VHT20	MCS0	2	48	5240	16.40	16.43	19.43	24.00		-2.90		Pass
VHT40	MCS0	2	38	5190	10.40	11.13	13.79	24.00		-2.90		Pass
VHT40	MCS0	2	46	5230	15.30	15.33	18.33	24.00		-2.90		Pass
VHT80	MCS0	2	42	5210	10.70	11.33	14.04	24.00		-2.90		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	36	5180	0.28	0.29	-		6.48	11.00		-0.23	-	Pass
11a	6Mbps	2	40	5200	0.28	0.29			9.70	11.00		-0.23		Pass
11a	6Mbps	2	44	5220	0.28	0.29			10.03	11.00		-0.23		Pass
11a	6Mbps	2	48	5240	0.28	0.29			8.93	11.00		-0.23		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	52	5260	26.82	28.57	41.35	43.52	23.98		30.00		23.98		-
11a	6Mbps	2	60	5300	18.88	19.63	34.53	36.42	23.76		29.76		23.98		
11a	6Mbps	2	64	5320	17.03	16.78	21.14	21.11	23.25		29.25		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	52	5260	18.50	18.13	21.33	23.98		-2.30		30	Pass
11a	6Mbps	2	60	5300	16.20	15.53	18.89	23.98		-2.30		30	Pass
11a	6Mbps	2	64	5320	13.60	13.83	16.73	23.98		-2.30		30	Pass
HT20	MCS0	2	52	5260	19.80	18.73	22.31	23.98		-2.30		30	Pass
HT20	MCS0	2	60	5300	16.20	15.53	18.89	23.98		-2.30		30	Pass
HT20	MCS0	2	64	5320	11.20	11.13	14.18	23.98		-2.30		30	Pass
HT40	MCS0	2	54	5270	15.10	15.03	18.08	23.98		-2.30		30	Pass
HT40	MCS0	2	62	5310	10.10	10.63	13.38	23.98		-2.30		30	Pass
VHT20	MCS0	2	52	5260	19.80	18.73	22.31	23.98		-2.30		30	Pass
VHT20	MCS0	2	60	5300	16.20	15.53	18.89	23.98		-2.30		30	Pass
VHT20	MCS0	2	64	5320	11.20	11.13	14.18	23.98		-2.30		30	Pass
VHT40	MCS0	2	54	5270	15.10	15.03	18.08	23.98		-2.30		30	Pass
VHT40	MCS0	2	62	5310	10.10	10.63	13.38	23.98		-2.30		30	Pass
VHT80	MCS0	2	58	5290	10.40	10.83	13.63	23.98		-2.30		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	52	5260	0.28	0.29	-		10.82	11.00		0.51		Pass
11a	6Mbps	2	60	5300	0.28	0.29			8.13	11.00		0.51		Pass
11a	6Mbps	2	64	5320	0.28	0.29			5.64	11.00		0.51		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	100	5500	18.08	17.38	30.78	28.78	23.40		29.40		23.98		----	----
11a	6Mbps	2	104	5520	26.86	28.72	49.13	43.69	23.98		30.00		23.98		----	----
11a	6Mbps	2	116	5580	27.77	27.72	40.96	42.53	23.98		30.00		23.98		----	----
11a	6Mbps	2	136	5680	20.43	20.38	37.43	36.62	23.98		30.00		23.98		----	----
11a	6Mbps	2	140	5700	17.13	16.78	21.26	21.02	23.25		29.25		23.98		----	----

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	144	5720	19.04	20.18	27.01	26.93	23.80		29.80		23.98		2.905	2.58
6dB Bandwidth Limit ≥ 500kHz															Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	100	5500	15.50	14.93	18.23	23.98		-1.10		30	Pass
11a	6Mbps	2	104	5520	18.70	18.33	21.53	23.98		-1.10		30	Pass
11a	6Mbps	2	116	5580	18.70	18.23	21.48	23.98		-1.10		30	Pass
11a	6Mbps	2	136	5680	17.20	16.63	19.93	23.98		-1.10		30	Pass
11a	6Mbps	2	140	5700	13.30	12.93	16.13	23.98		-1.10		30	Pass
HT20	MCS0	2	100	5500	14.20	13.63	16.93	23.98		-1.10		30	Pass
HT20	MCS0	2	104	5520	18.10	17.73	20.93	23.98		-1.10		30	Pass
HT20	MCS0	2	116	5580	19.10	18.53	21.83	23.98		-1.10		30	Pass
HT20	MCS0	2	136	5680	16.30	15.73	19.03	23.98		-1.10		30	Pass
HT20	MCS0	2	140	5700	11.00	9.53	13.34	23.98		-1.10		30	Pass
HT40	MCS0	2	102	5510	13.90	13.53	16.73	23.98		-1.10		30	Pass
HT40	MCS0	2	110	5550	17.70	17.53	20.63	23.98		-1.10		30	Pass
HT40	MCS0	2	134	5670	14.60	13.93	17.29	23.98		-1.10		30	Pass
VHT20	MCS0	2	100	5500	14.20	13.63	16.93	23.98		-1.10		30	Pass
VHT20	MCS0	2	104	5520	18.10	17.73	20.93	23.98		-1.10		30	Pass
VHT20	MCS0	2	116	5580	19.10	18.53	21.83	23.98		-1.10		30	Pass
VHT20	MCS0	2	136	5680	16.30	15.73	19.03	23.98		-1.10		30	Pass
VHT20	MCS0	2	140	5700	11.00	9.53	13.34	23.98		-1.10		30	Pass
VHT40	MCS0	2	102	5510	13.90	13.53	16.73	23.98		-1.10		30	Pass
VHT40	MCS0	2	110	5550	17.70	17.53	20.63	23.98		-1.10		30	Pass
VHT40	MCS0	2	134	5670	14.60	13.93	17.29	23.98		-1.10		30	Pass
VHT80	MCS0	2	106	5530	10.80	10.73	13.78	23.98		-1.10		30	Pass
VHT80	MCS0	2	122	5610	17.00	17.13	20.08	23.98		-1.10		30	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	144	5720	19.00	18.73	21.88	23.98		-1.10		30	Pass
HT20	MCS0	2	144	5720	19.10	18.73	21.93	23.98		-1.10		30	Pass
HT40	MCS0	2	142	5710	18.70	18.23	21.48	23.98		-1.10		30	Pass
VHT20	MCS0	2	144	5720	19.10	18.73	21.93	23.98		-1.10		30	Pass
VHT40	MCS0	2	142	5710	18.70	18.23	21.48	23.98		-1.10		30	Pass
VHT80	MCS0	2	138	5690	18.90	18.33	21.63	23.98		-1.10		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	100	5500	0.28	0.29	-		7.67	11.00		1.62		Pass
11a	6Mbps	2	104	5520	0.28	0.29			10.77	11.00		1.62		Pass
11a	6Mbps	2	116	5580	0.28	0.29			10.85	11.00		1.62		Pass
11a	6Mbps	2	136	5680	0.28	0.29			8.96	11.00		1.62		Pass
11a	6Mbps	2	140	5700	0.28	0.29			5.17	11.00		1.62		Pass

U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	144	5720	0.28	0.29	-		10.95	11.00		1.62		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	36	5180	Full	19.03	19.03	20.91	23.26	-		22.79		-	-
HE20	MCS0	2	40	5200	Full	19.98	24.38	39.82	44.12	-		23.01			
HE20	MCS0	2	44	5220	Full	21.38	26.77	37.46	44.99	-		23.01			
HE20	MCS0	2	48	5240	Full	19.28	19.48	34.77	35.85	-		22.85			
HE40	MCS0	2	38	5190	Full	37.86	37.76	41.23	40.75	-		23.01			
HE40	MCS0	2	46	5230	Full	38.06	38.06	51.84	53.42	-		23.01			
HE80	MCS0	2	42	5210	Full	76.84	76.84	81.47	81.34	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	36	5180	Full	14.30	14.43	17.38	24.00		-2.90		Pass
HE20	MCS0	2	36	5180	26/0	7.00	6.83	9.93	24.00		-2.90		Pass
HE20	MCS0	2	36	5180	52/37	9.50	9.63	12.58	24.00		-2.90		Pass
HE20	MCS0	2	36	5180	106/53	11.90	11.73	14.83	24.00		-2.90		Pass
HE20	MCS0	2	40	5200	Full	16.40	16.83	19.63	24.00		-2.90		Pass
HE20	MCS0	2	44	5220	Full	17.10	16.83	19.98	24.00		-2.90		Pass
HE20	MCS0	2	44	5220	26/4	9.10	8.93	12.03	24.00		-2.90		Pass
HE20	MCS0	2	44	5220	52/38	11.10	10.33	13.74	24.00		-2.90		Pass
HE20	MCS0	2	44	5220	106/53	13.90	13.83	16.88	24.00		-2.90		Pass
HE20	MCS0	2	48	5240	Full	16.50	16.53	19.53	24.00		-2.90		Pass
HE20	MCS0	2	48	5240	26/8	9.50	9.03	12.28	24.00		-2.90		Pass
HE20	MCS0	2	48	5240	52/40	11.60	11.23	14.43	24.00		-2.90		Pass
HE20	MCS0	2	48	5240	106/54	14.90	14.73	17.83	24.00		-2.90		Pass
HE40	MCS0	2	38	5190	Full	10.50	11.23	13.89	24.00		-2.90		Pass
HE40	MCS0	2	46	5230	Full	15.40	15.43	18.43	24.00		-2.90		Pass
HE80	MCS0	2	42	5210	Full	10.80	11.43	14.14	24.00		-2.90		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	36	5180	Full	0.40	0.40			5.88	11.00		-0.23		Pass	
HE20	MCS0	2	36	5180	26/0	0.48	0.48			5.51	11.00		-0.23		Pass	
HE20	MCS0	2	36	5180	52/37	0.52	0.53			5.43	11.00		-0.23		Pass	
HE20	MCS0	2	36	5180	106/53	0.58	0.59			4.74	11.00		-0.23		Pass	
HE20	MCS0	2	40	5200	Full	0.40	0.40			8.32	11.00		-0.23		Pass	
HE20	MCS0	2	44	5220	Full	0.40	0.40			8.80	11.00		-0.23		Pass	
HE20	MCS0	2	44	5220	26/4	0.48	0.48			8.60	11.00		-0.23		Pass	
HE20	MCS0	2	44	5220	52/38	0.52	0.53			8.43	11.00		-0.23		Pass	
HE20	MCS0	2	44	5220	106/53	0.58	0.59			8.42	11.00		-0.23		Pass	
HE20	MCS0	2	48	5240	Full	0.40	0.40			8.16	11.00		-0.23		Pass	
HE20	MCS0	2	48	5240	26/8	0.48	0.48			8.11	11.00		-0.23		Pass	
HE20	MCS0	2	48	5240	52/40	0.52	0.53			7.25	11.00		-0.23		Pass	
HE20	MCS0	2	48	5240	106/54	0.58	0.59			7.89	11.00		-0.23		Pass	
HE40	MCS0	2	38	5190	Full	0.40	0.40			-1.08	11.00		-0.23		Pass	
HE40	MCS0	2	46	5230	Full	0.40	0.40			3.28	11.00		-0.23		Pass	
HE80	MCS0	2	42	5210	Full	0.54	0.54		-3.96	11.00		-0.23	Pass			

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	52	5260	Full	27.33	28.95	56.78	52.50	23.98		30.00		23.98		
HE20	MCS0	2	60	5300	Full	19.23	19.18	30.78	27.98	23.83		29.83		23.98		
HE20	MCS0	2	64	5320	Full	18.93	18.93	21.38	21.09	23.77		29.77		23.98		
HE40	MCS0	2	54	5270	Full	38.06	38.26	45.81	49.30	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.86	37.76	41.34	40.82	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	76.84	76.72	81.41	80.96	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	52	5260	Full	19.90	18.83	22.41	23.98		-2.30		30	Pass
HE20	MCS0	2	52	5260	26/0	12.50	10.63	14.68	23.98		-2.30		30	Pass
HE20	MCS0	2	52	5260	52/37	15.10	14.63	17.88	23.98		-2.30		30	Pass
HE20	MCS0	2	52	5260	106/53	17.70	16.93	20.34	23.98		-2.30		30	Pass
HE20	MCS0	2	60	5300	Full	16.30	15.63	18.99	23.98		-2.30		30	Pass
HE20	MCS0	2	60	5300	26/4	7.80	7.53	10.68	23.98		-2.30		30	Pass
HE20	MCS0	2	60	5300	52/38	9.60	8.93	12.29	23.98		-2.30		30	Pass
HE20	MCS0	2	60	5300	106/53	12.50	12.23	15.38	23.98		-2.30		30	Pass
HE20	MCS0	2	64	5320	Full	11.30	11.23	14.28	23.98		-2.30		30	Pass
HE20	MCS0	2	64	5320	26/8	4.40	4.03	7.23	23.98		-2.30		30	Pass
HE20	MCS0	2	64	5320	52/40	6.80	6.73	9.78	23.98		-2.30		30	Pass
HE20	MCS0	2	64	5320	106/54	10.10	9.43	12.79	23.98		-2.30		30	Pass
HE40	MCS0	2	54	5270	Full	15.50	15.43	18.48	23.98		-2.30		30	Pass
HE40	MCS0	2	62	5310	Full	10.60	11.23	13.94	23.98		-2.30		30	Pass
HE80	MCS0	2	58	5290	Full	11.00	11.33	14.18	23.98		-2.30		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	52	5260	Full	0.40	0.40	-		10.86	11.00	0.51		-	Pass
HE20	MCS0	2	52	5260	26/0	0.48	0.48			10.23	11.00	0.51			Pass
HE20	MCS0	2	52	5260	52/37	0.52	0.53			10.51	11.00	0.51			Pass
HE20	MCS0	2	52	5260	106/53	0.58	0.59			10.46	11.00	0.51			Pass
HE20	MCS0	2	60	5300	Full	0.40	0.40			7.05	11.00	0.51			Pass
HE20	MCS0	2	60	5300	26/4	0.48	0.48			6.95	11.00	0.51			Pass
HE20	MCS0	2	60	5300	52/38	0.52	0.53			6.81	11.00	0.51			Pass
HE20	MCS0	2	60	5300	106/53	0.58	0.59			6.69	11.00	0.51			Pass
HE20	MCS0	2	64	5320	Full	0.40	0.40			3.01	11.00	0.51			Pass
HE20	MCS0	2	64	5320	26/8	0.48	0.48			2.96	11.00	0.51			Pass
HE20	MCS0	2	64	5320	52/40	0.52	0.53			2.75	11.00	0.51			Pass
HE20	MCS0	2	64	5320	106/54	0.58	0.59			2.73	11.00	0.51			Pass
HE40	MCS0	2	54	5270	Full	0.40	0.40			3.01	11.00	0.51			Pass
HE40	MCS0	2	62	5310	Full	0.40	0.40			-1.68	11.00	0.51			Pass
HE80	MCS0	2	58	5290	Full	0.54	0.54			-4.18	11.00	0.51			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
HE20	MCS0	2	100	5500	Full	28.47	27.82	47.09	45.70	23.98		30.00		23.98		----	----
HE20	MCS0	2	104	5520	Full	29.07	26.17	45.99	42.92	23.98		30.00		23.98		----	----
HE20	MCS0	2	116	5580	Full	27.97	28.52	47.16	47.82	23.98		30.00		23.98		----	----
HE20	MCS0	2	136	5680	Full	19.88	19.78	37.38	41.43	23.96		29.96		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.95	18.94	47.22	47.34	23.77		29.77		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	37.86	49.62	41.60	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	46.45	45.55	85.38	86.02	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.56	38.66	67.31	70.00	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	76.84	76.84	81.92	81.25	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.32	77.44	118.75	128.16	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
HE20	MCS0	2	144	5720	Full	19.49	19.98	29.33	29.23	23.90		29.90		23.98		4.315	2.545
HE40	MCS0	2	142	5710	Full	37.18	38.68	61.85	58.79	23.98		30.00		23.98		3.549	3.846
HE80	MCS0	2	138	5690	Full	73.60	73.60	86.62	101.53	23.98		30.00		23.98		3.592	2.616
6dB Bandwidth Limit ≥ 500kHz																Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	100	5500	Full	14.30	13.73	17.03	23.98		-1.10		30	Pass
HE20	MCS0	2	100	5500	26/0	6.50	4.63	8.68	23.98		-1.10		30	Pass
HE20	MCS0	2	100	5500	52/37	9.30	8.03	11.72	23.98		-1.10		30	Pass
HE20	MCS0	2	100	5500	106/53	11.60	10.33	14.02	23.98		-1.10		30	Pass
HE20	MCS0	2	104	5520	Full	18.20	17.83	21.03	23.98		-1.10		30	Pass
HE20	MCS0	2	116	5580	Full	19.20	18.63	21.93	23.98		-1.10		30	Pass
HE20	MCS0	2	116	5580	26/4	12.20	11.13	14.71	23.98		-1.10		30	Pass
HE20	MCS0	2	116	5580	52/38	14.70	14.53	17.63	23.98		-1.10		30	Pass
HE20	MCS0	2	116	5580	106/53	17.90	17.23	20.59	23.98		-1.10		30	Pass
HE20	MCS0	2	136	5680	Full	16.40	15.83	19.13	23.98		-1.10		30	Pass
HE20	MCS0	2	140	5700	Full	11.10	9.63	13.44	23.98		-1.10		30	Pass
HE20	MCS0	2	140	5700	26/8	2.60	0.83	4.81	23.98		-1.10		30	Pass
HE20	MCS0	2	140	5700	52/40	5.50	3.53	7.64	23.98		-1.10		30	Pass
HE20	MCS0	2	140	5700	106/54	8.50	7.03	10.84	23.98		-1.10		30	Pass
HE40	MCS0	2	102	5510	Full	14.00	13.63	16.83	23.98		-1.10		30	Pass
HE40	MCS0	2	110	5550	Full	17.80	17.63	20.73	23.98		-1.10		30	Pass
HE40	MCS0	2	134	5670	Full	14.70	14.03	17.39	23.98		-1.10		30	Pass
HE80	MCS0	2	106	5530	Full	11.30	11.43	14.38	23.98		-1.10		30	Pass
HE80	MCS0	2	122	5610	Full	17.10	17.23	20.18	23.98		-1.10		30	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	144	5720	Full	19.20	18.83	22.03	23.98		-1.10		30	Pass
HE20	MCS0	2	144	5720	26/8	12.40	10.43	14.54	23.98		-1.10		30	Pass
HE20	MCS0	2	144	5720	52/40	14.80	14.53	17.68	23.98		-1.10		30	Pass
HE20	MCS0	2	144	5720	106/54	17.50	17.03	20.28	23.98		-1.10		30	Pass
HE40	MCS0	2	142	5710	Full	18.80	18.33	21.58	23.98		-1.10		30	Pass
HE80	MCS0	2	138	5690	Full	19.00	18.43	21.73	23.98		-1.10		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	100	5500	Full	0.40	0.40	-		6.34	11.00	1.62		-	Pass	
HE20	MCS0	2	100	5500	26/0	0.48	0.48			6.28	11.00	1.62			Pass	
HE20	MCS0	2	100	5500	52/37	0.52	0.53			6.30	11.00	1.62			Pass	
HE20	MCS0	2	100	5500	106/53	0.58	0.59			5.49	11.00	1.62			Pass	
HE20	MCS0	2	104	5520	Full	0.40	0.40			9.65	11.00	1.62			Pass	
HE20	MCS0	2	116	5580	Full	0.40	0.40			10.56	11.00	1.62			Pass	
HE20	MCS0	2	116	5580	26/4	0.48	0.48			9.26	11.00	1.62			Pass	
HE20	MCS0	2	116	5580	52/38	0.52	0.53			10.26	11.00	1.62			Pass	
HE20	MCS0	2	116	5580	106/53	0.58	0.59			10.26	11.00	1.62			Pass	
HE20	MCS0	2	136	5680	Full	0.40	0.40			8.13	11.00	1.62			Pass	
HE20	MCS0	2	140	5700	Full	0.40	0.40			2.85	11.00	1.62			Pass	
HE20	MCS0	2	140	5700	26/8	0.48	0.48			2.71	11.00	1.62			Pass	
HE20	MCS0	2	140	5700	52/40	0.52	0.53			2.51	11.00	1.62			Pass	
HE20	MCS0	2	140	5700	106/54	0.58	0.59			2.70	11.00	1.62			Pass	
HE40	MCS0	2	102	5510	Full	0.40	0.40			2.63	11.00	1.62			Pass	
HE40	MCS0	2	110	5550	Full	0.40	0.40			6.21	11.00	1.62			Pass	
HE40	MCS0	2	134	5670	Full	0.40	0.40			3.97	11.00	1.62			Pass	
HE80	MCS0	2	106	5530	Full	0.54	0.54			-4.21	11.00	1.62			Pass	
HE80	MCS0	2	122	5610	Full	0.54	0.54			2.51	11.00	1.62			Pass	

U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	144	5720	Full	0.40	0.40	-		10.59	11.00	1.62		-	Pass
HE20	MCS0	2	144	5720	26/8	0.48	0.48			10.16	11.00	1.62			Pass
HE20	MCS0	2	144	5720	52/40	0.52	0.53			10.18	11.00	1.62			Pass
HE20	MCS0	2	144	5720	106/54	0.58	0.59			10.33	11.00	1.62			Pass
HE40	MCS0	2	142	5710	Full	0.40	0.40			5.87	11.00	1.62			Pass
HE80	MCS0	2	138	5690	Full	0.54	0.54			4.23	11.00	1.62			Pass

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

U-NII-3 MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	149	5745	27.67	28.97	46.83	43.72	16.00	15.05	0.5	Pass
11a	6Mbps	2	157	5785	27.22	28.12	46.52	43.66	16.32	15.43	0.5	Pass
11a	6Mbps	2	165	5825	27.82	26.22	43.48	40.09	16.00	15.43	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	149	5745	19.80	18.73	22.31	30.00		-1.80		Pass
11a	6Mbps	2	157	5785	19.90	18.63	22.32	30.00		-1.80		Pass
11a	6Mbps	2	165	5825	19.80	18.33	22.14	30.00		-1.80		Pass
HT20	MCS0	2	149	5745	19.80	18.63	22.26	30.00		-1.80		Pass
HT20	MCS0	2	157	5785	19.80	18.63	22.26	30.00		-1.80		Pass
HT20	MCS0	2	165	5825	19.70	18.53	22.16	30.00		-1.80		Pass
HT40	MCS0	2	151	5755	18.80	17.83	21.35	30.00		-1.80		Pass
HT40	MCS0	2	159	5795	18.70	17.33	21.08	30.00		-1.80		Pass
VHT20	MCS0	2	149	5745	19.80	18.63	22.26	30.00		-1.80		Pass
VHT20	MCS0	2	157	5785	19.80	18.63	22.26	30.00		-1.80		Pass
VHT20	MCS0	2	165	5825	19.70	18.53	22.16	30.00		-1.80		Pass
VHT40	MCS0	2	151	5755	18.80	17.83	21.35	30.00		-1.80		Pass
VHT40	MCS0	2	159	5795	18.70	17.33	21.08	30.00		-1.80		Pass
VHT80	MCS0	2	155	5775	17.20	16.53	19.89	30.00		-1.80		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	149	5745	0.28	0.29	2.22	5.55	4.40	8.56	30.00		0.54		Pass	
11a	6Mbps	2	157	5785	0.28	0.29	2.22	5.50	4.32	8.51	30.00		0.54		Pass	
11a	6Mbps	2	165	5825	0.28	0.29	2.22	5.22	3.95	8.23	30.00		0.54		Pass	

Note: PSD Sum = Max PSD(Ant. 4, Ant. 3) + 10 log (n)

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

U-NII-3 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	149	5745	Full	28.77	27.07	49.47	49.50	17.58	16.30	0.5	Pass
HE20	MCS0	2	157	5785	Full	28.02	29.32	49.25	47.46	17.75	17.35	0.5	Pass
HE20	MCS0	2	165	5825	Full	29.02	27.17	48.77	44.57	18.59	18.06	0.5	Pass
HE40	MCS0	2	151	5755	Full	49.25	45.55	86.96	81.23	37.30	37.39	0.5	Pass
HE40	MCS0	2	159	5795	Full	44.86	39.46	81.87	76.34	37.34	36.39	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.28	77.80	169.98	142.75	75.78	75.17	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	149	5745	Full	19.90	18.73	22.36	30.00		-1.80		Pass
HE20	MCS0	2	149	5745	26/0	12.10	10.33	14.31	30.00		-1.80		Pass
HE20	MCS0	2	149	5745	52/37	14.90	14.23	17.59	30.00		-1.80		Pass
HE20	MCS0	2	149	5745	106/53	17.40	16.83	20.13	30.00		-1.80		Pass
HE20	MCS0	2	157	5785	Full	19.90	18.73	22.36	30.00		-1.80		Pass
HE20	MCS0	2	157	5785	26/4	11.20	9.53	13.46	30.00		-1.80		Pass
HE20	MCS0	2	157	5785	52/38	15.00	13.93	17.51	30.00		-1.80		Pass
HE20	MCS0	2	157	5785	106/53	17.60	16.63	20.15	30.00		-1.80		Pass
HE20	MCS0	2	165	5825	Full	19.80	18.63	22.26	30.00		-1.80		Pass
HE20	MCS0	2	165	5825	26/8	11.20	9.23	13.34	30.00		-1.80		Pass
HE20	MCS0	2	165	5825	52/40	14.20	13.33	16.80	30.00		-1.80		Pass
HE20	MCS0	2	165	5825	106/54	17.10	16.43	19.79	30.00		-1.80		Pass
HE40	MCS0	2	151	5755	Full	18.90	17.93	21.45	30.00		-1.80		Pass
HE40	MCS0	2	159	5795	Full	18.80	17.43	21.18	30.00		-1.80		Pass
HE80	MCS0	2	155	5775	Full	17.30	16.63	19.99	30.00		-1.80		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3	
HE20	MCS0	2	149	5745	Full	0.40	0.40	2.22	4.79	3.79	7.80	30.00		0.54		Pass	
HE20	MCS0	2	149	5745	26/0	0.48	0.48	2.22	4.60	2.77	7.61	30.00		0.54		Pass	
HE20	MCS0	2	149	5745	52/37	0.52	0.53	2.22	4.78	4.23	7.79	30.00		0.54		Pass	
HE20	MCS0	2	149	5745	106/53	0.58	0.59	2.22	4.48	3.91	7.49	30.00		0.54		Pass	
HE20	MCS0	2	157	5785	Full	0.40	0.40	2.22	4.75	3.75	7.76	30.00		0.54		Pass	
HE20	MCS0	2	157	5785	26/4	0.48	0.48	2.22	4.30	2.39	7.31	30.00		0.54		Pass	
HE20	MCS0	2	157	5785	52/38	0.52	0.53	2.22	4.63	4.03	7.64	30.00		0.54		Pass	
HE20	MCS0	2	157	5785	106/53	0.58	0.59	2.22	4.49	3.79	7.50	30.00		0.54		Pass	
HE20	MCS0	2	165	5825	Full	0.40	0.40	2.22	4.64	3.46	7.65	30.00		0.54		Pass	
HE20	MCS0	2	165	5825	26/8	0.48	0.48	2.22	4.36	2.26	7.37	30.00		0.54		Pass	
HE20	MCS0	2	165	5825	52/40	0.52	0.53	2.22	4.32	3.11	7.33	30.00		0.54		Pass	
HE20	MCS0	2	165	5825	106/54	0.58	0.59	2.22	4.48	3.52	7.49	30.00		0.54		Pass	
HE40	MCS0	2	151	5755	Full	0.40	0.40	2.22	1.23	-0.01	4.24	30.00		0.54		Pass	
HE40	MCS0	2	159	5795	Full	0.40	0.40	2.22	0.85	-0.32	3.86	30.00		0.54		Pass	
HE80	MCS0	2	155	5775	Full	0.54	0.54	2.22	-1.85	-2.75	1.16	30.00		0.54		Pass	

Note: PSD Sum = Max PSD(Ant. 4, Ant. 3) + 10 log (n)

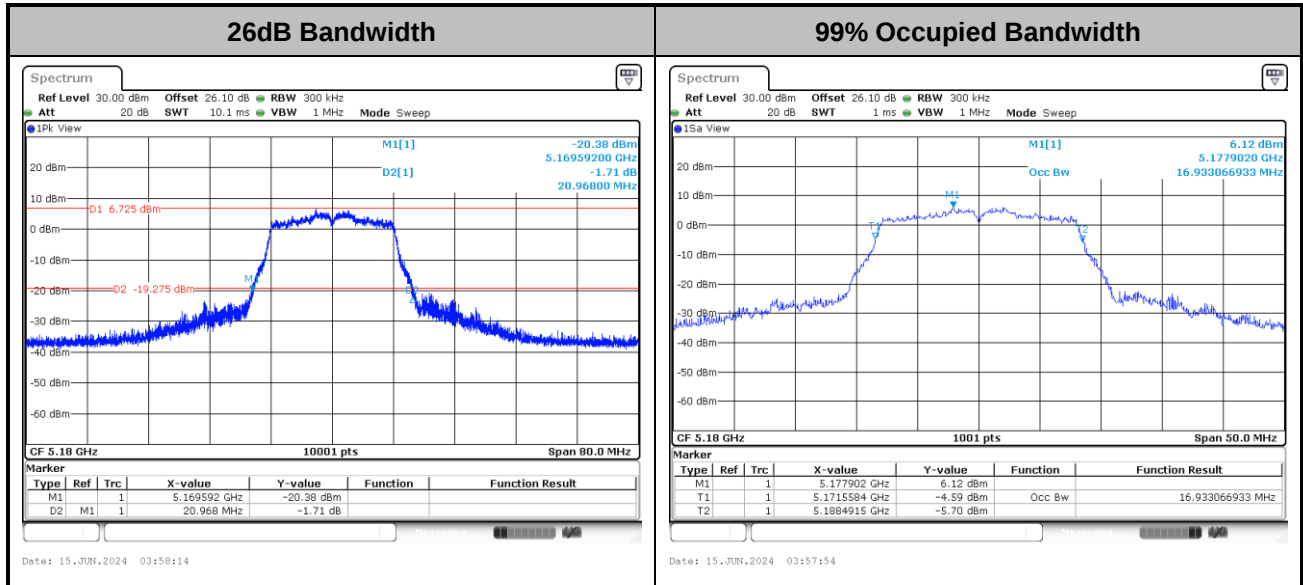


MIMO <Ant. 4+3>

<For Band 1-3>

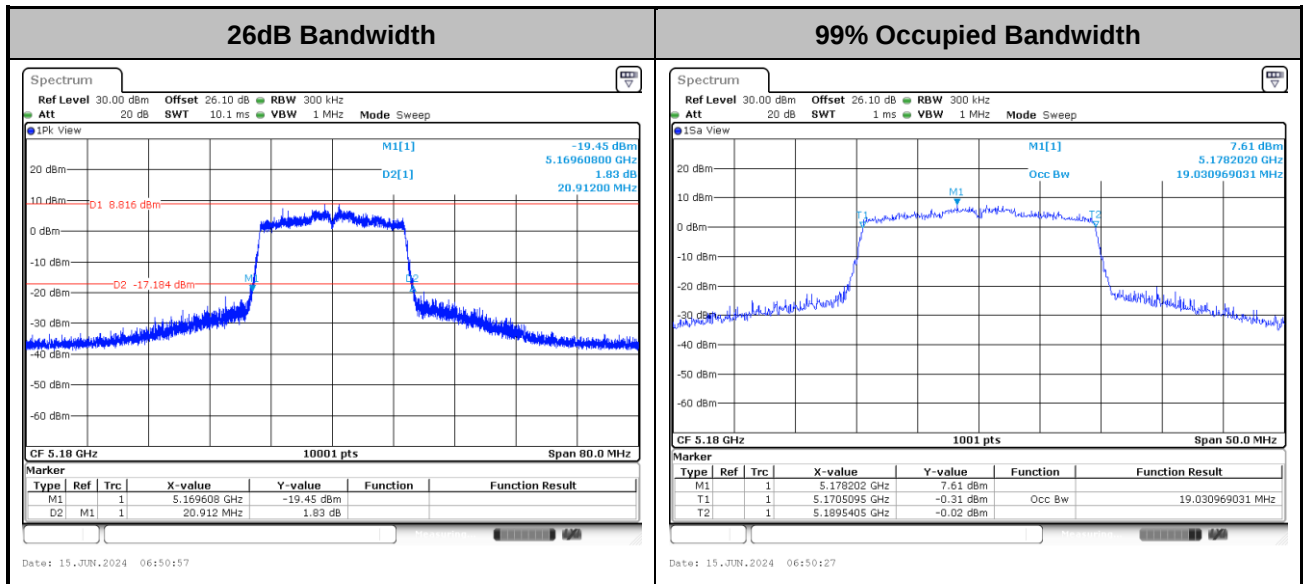
Test Result of 26dB & 99% Occupied Bandwidth

<802.11a>



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

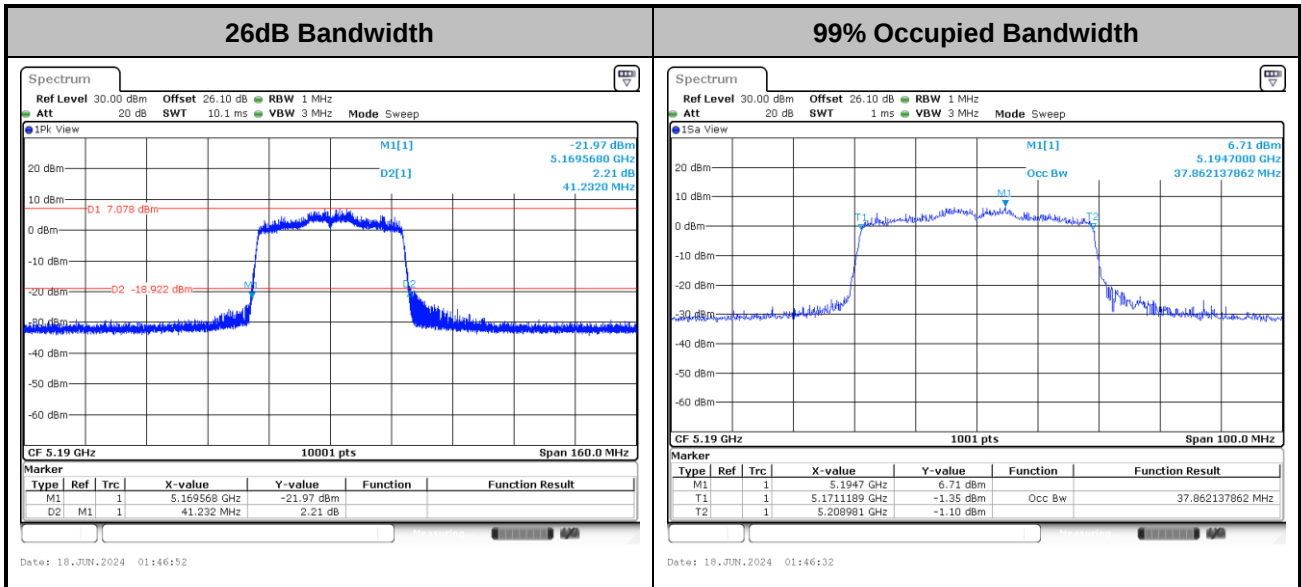
<802.11ax HE20>



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

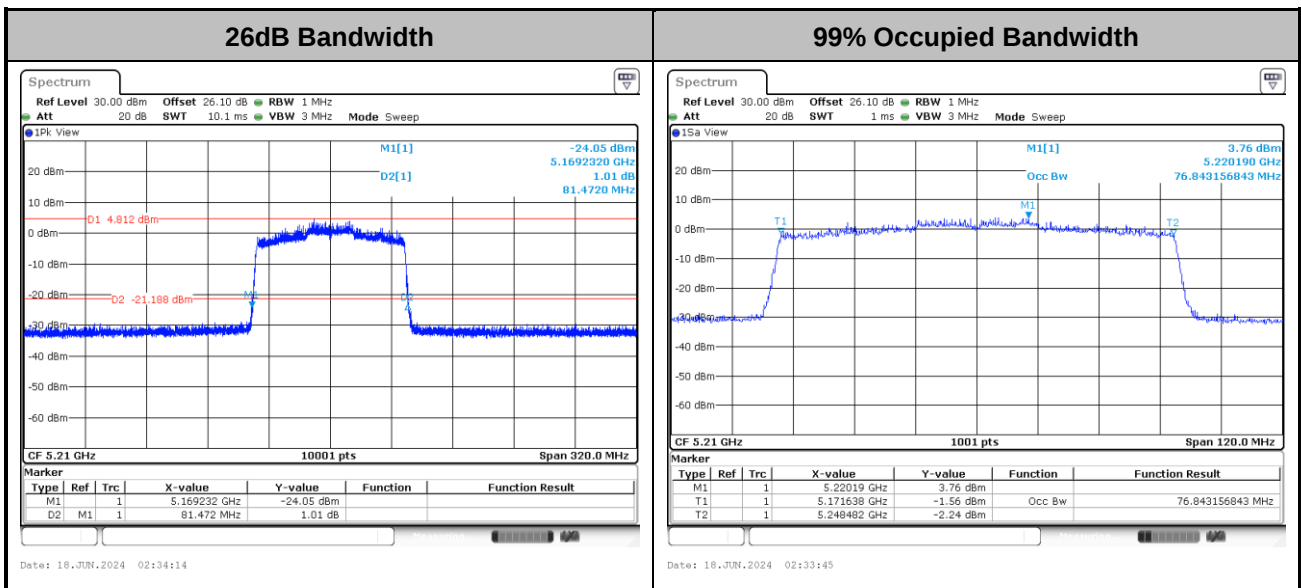


<802.11ax HE40>



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

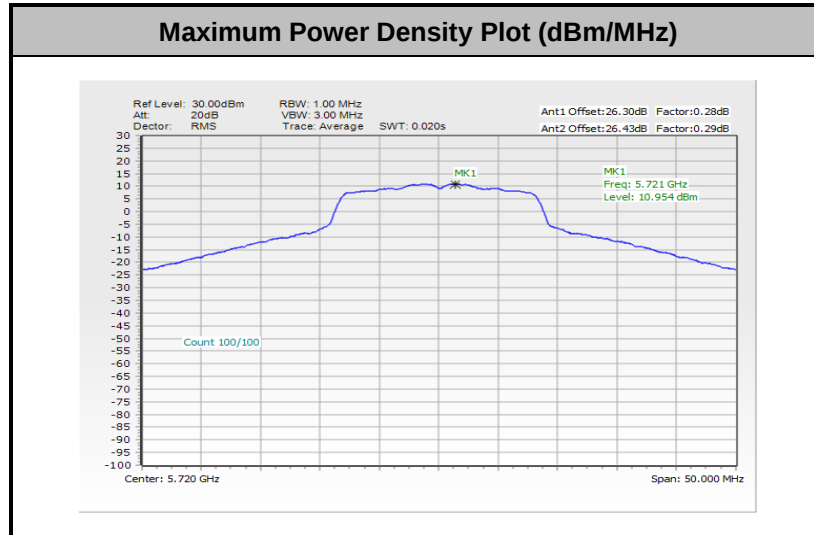
<802.11ax HE80>



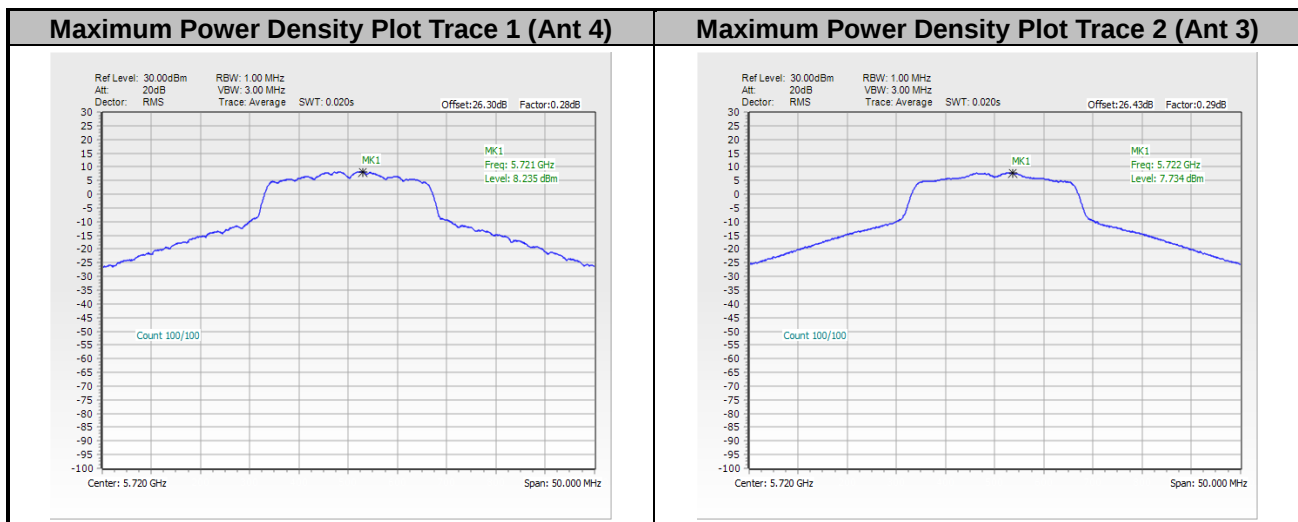
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

<802.11a>

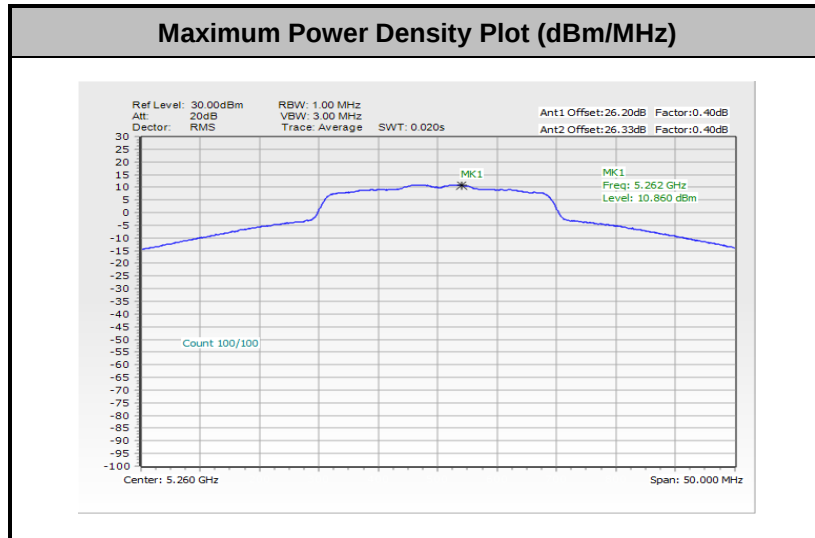


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

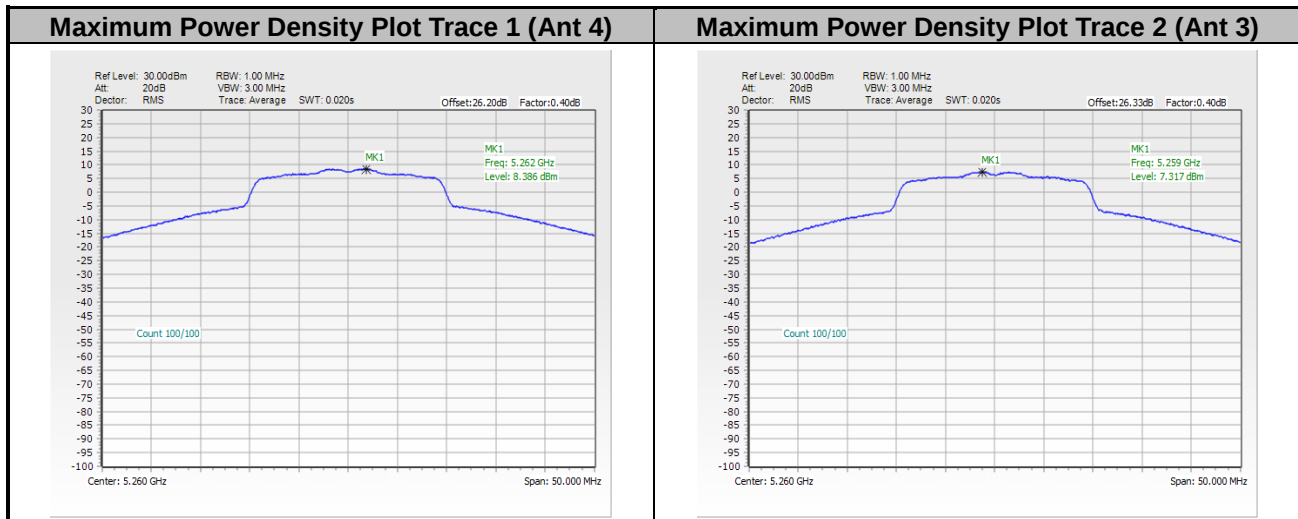




<802.11ax HE20>

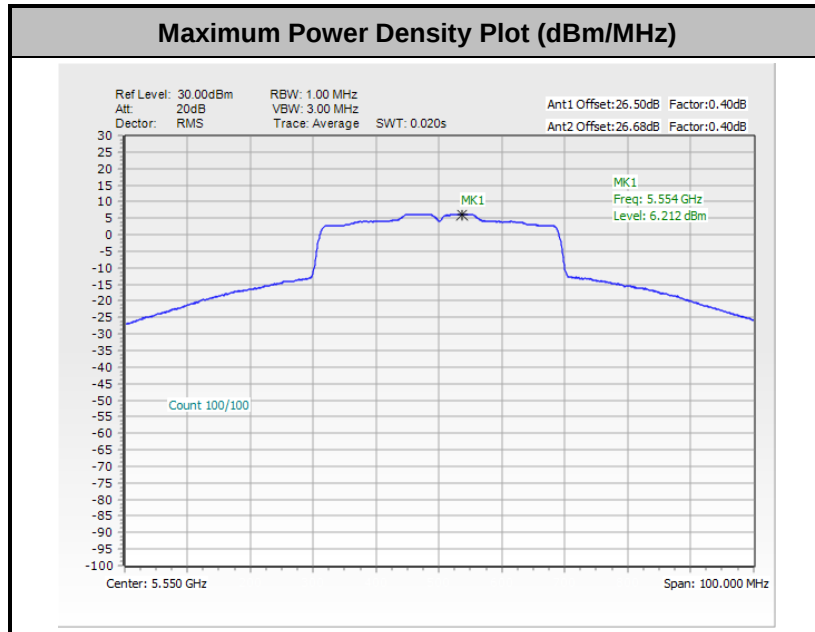


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

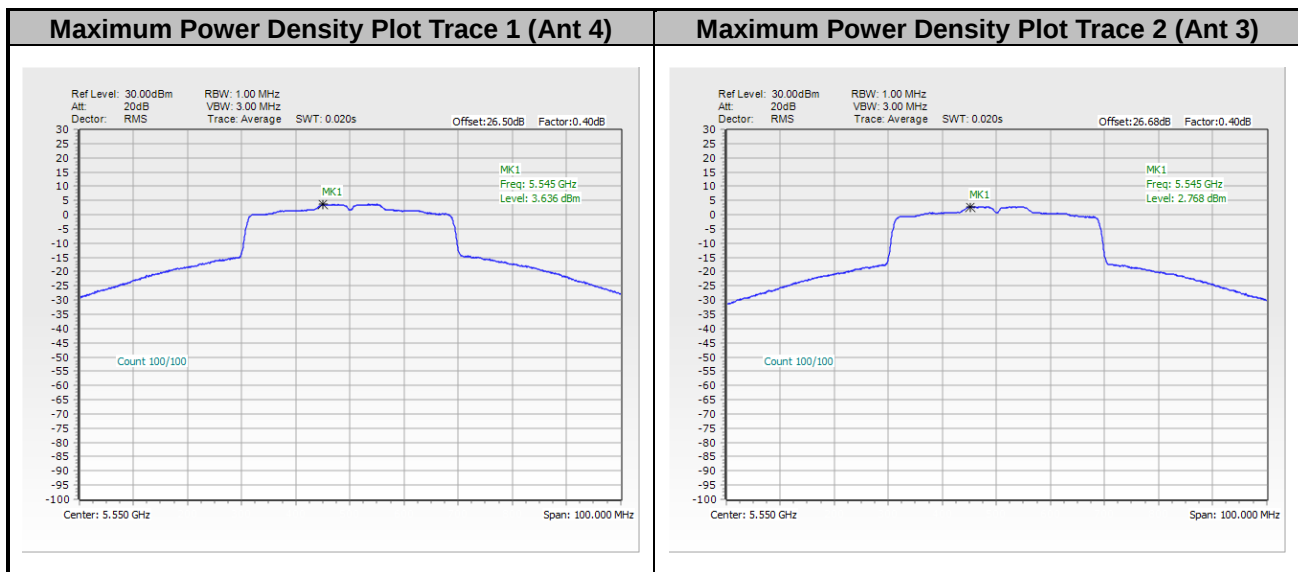




<802.11ax HE40>

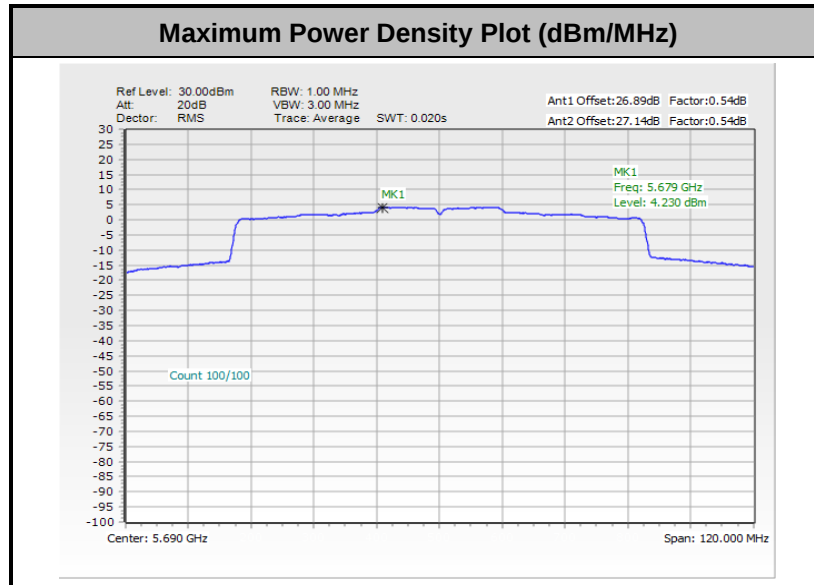


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

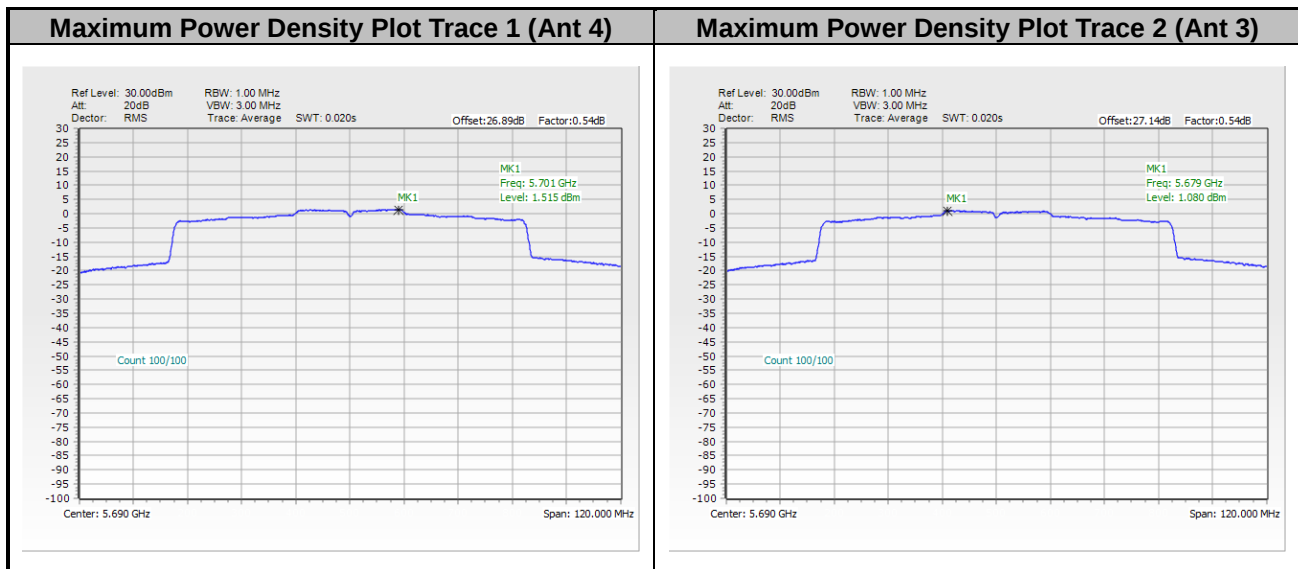




<802.11ax HE80>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

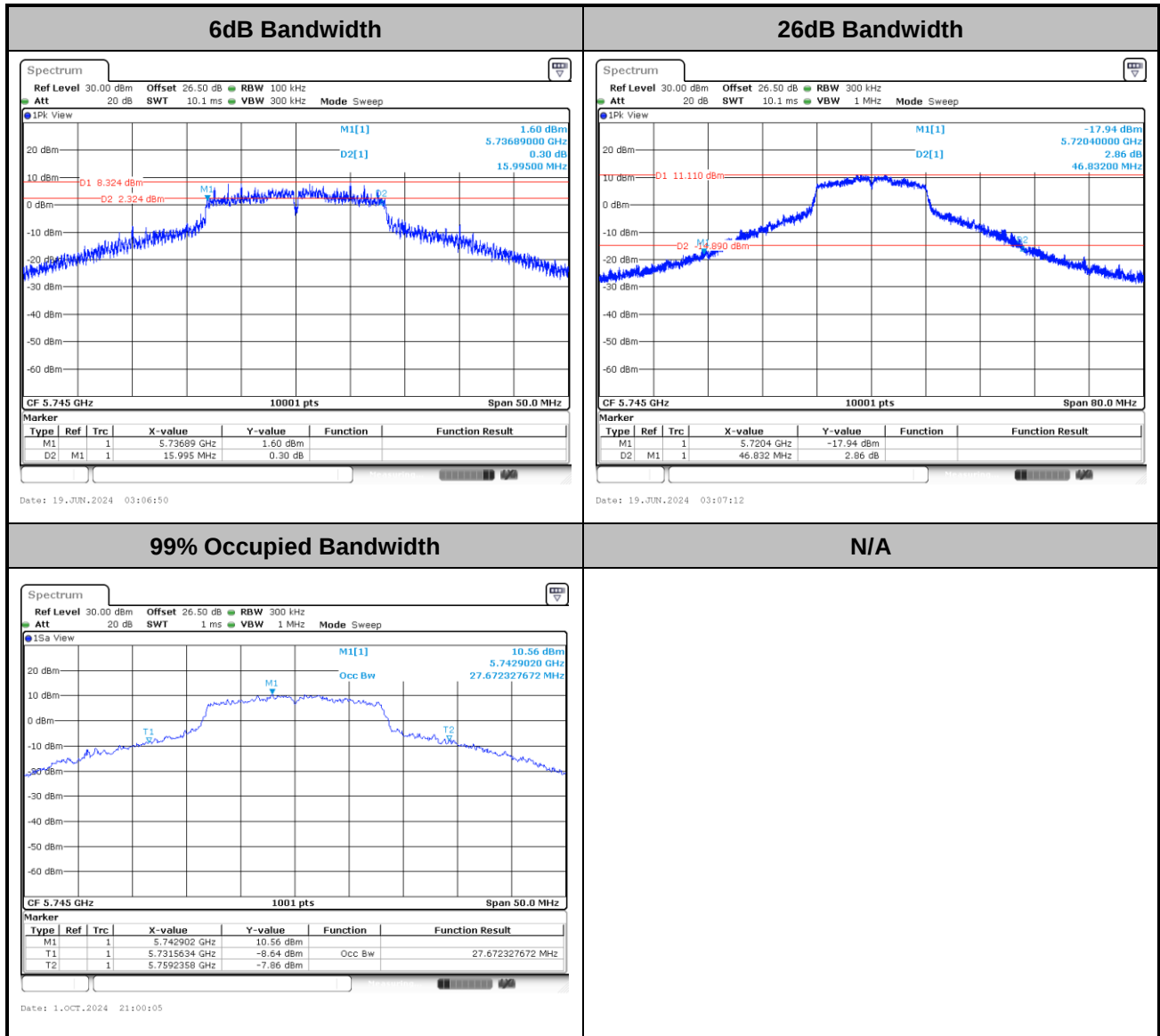




<For Band 4>

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

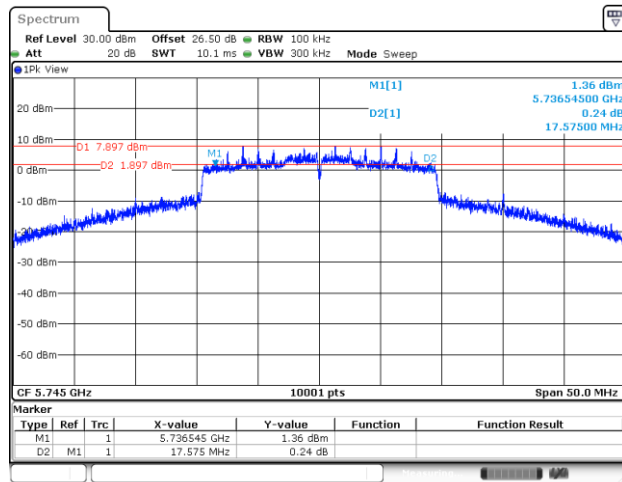
<802.11a>



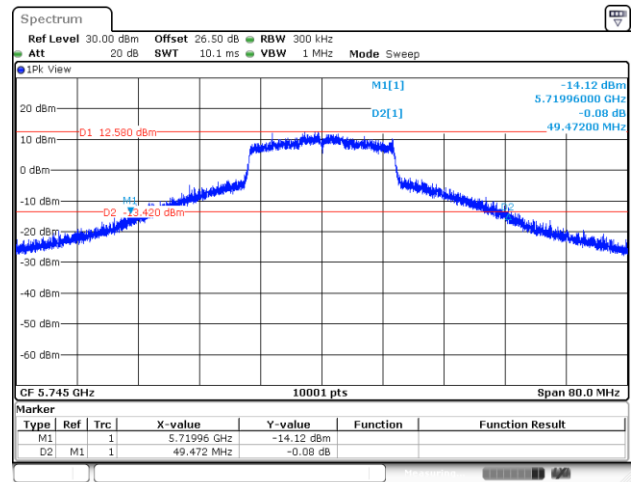


<802.11ax HE20>

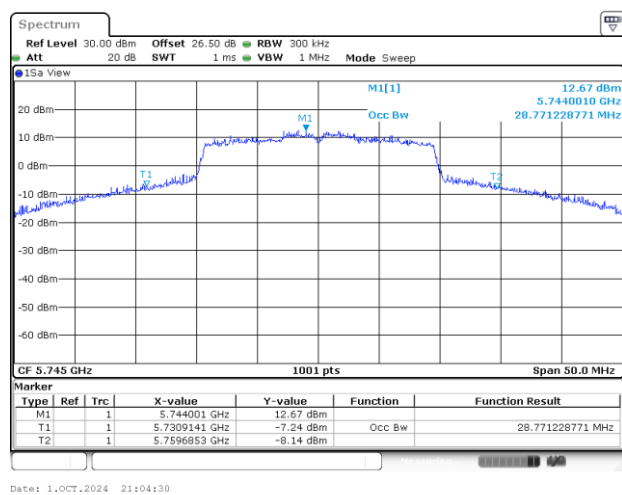
6dB Bandwidth



26dB Bandwidth



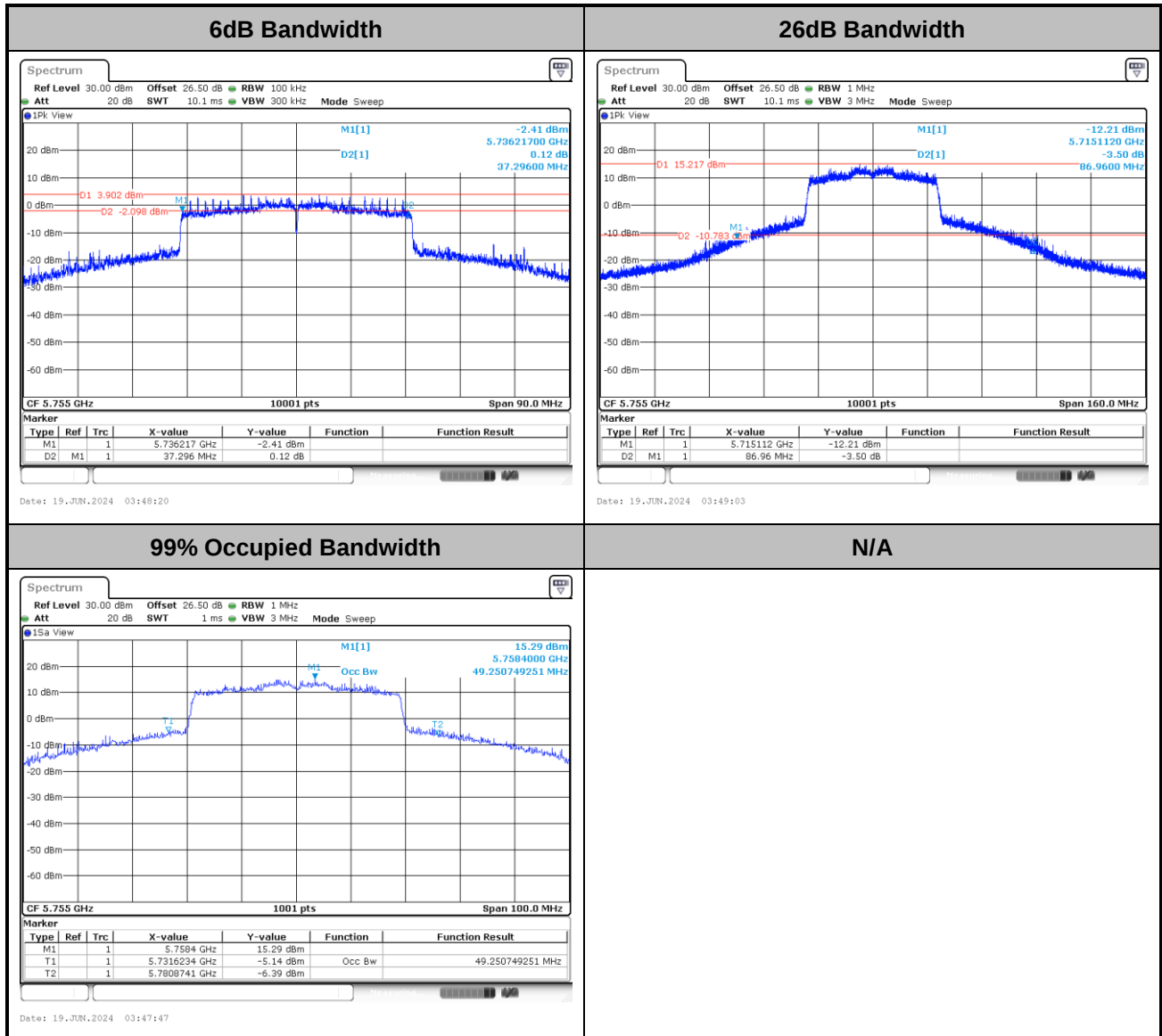
99% Occupied Bandwidth



N/A



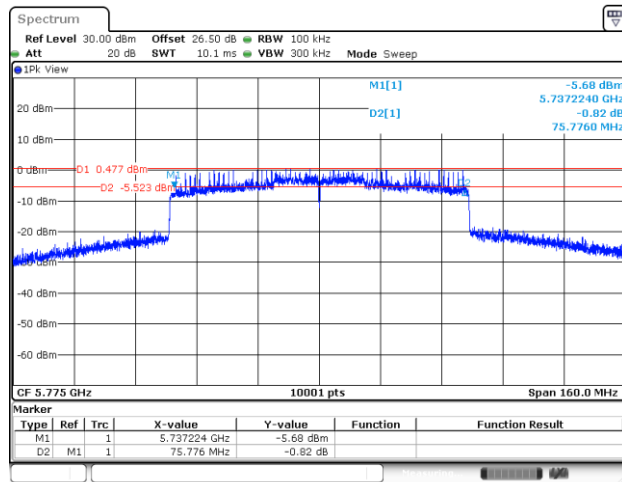
<802.11ax HE40>



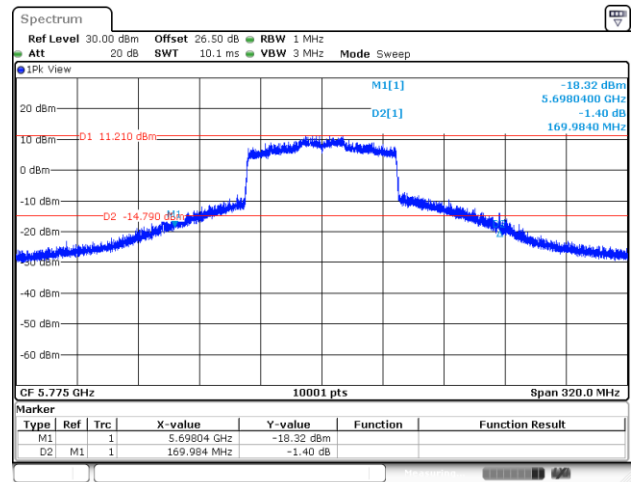


<802.11ax HE80>

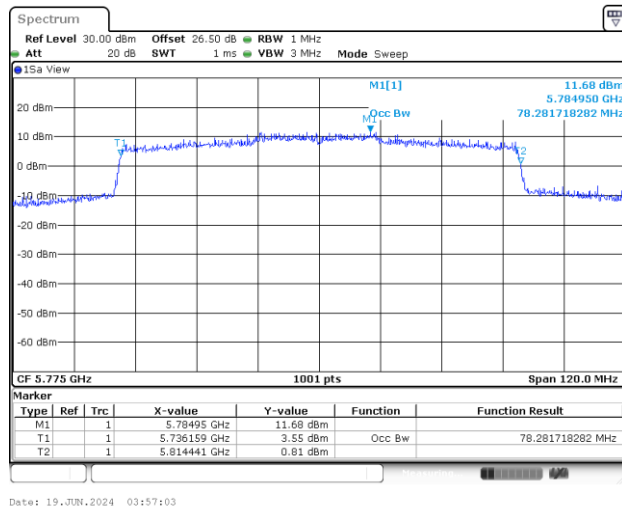
6dB Bandwidth



26dB Bandwidth



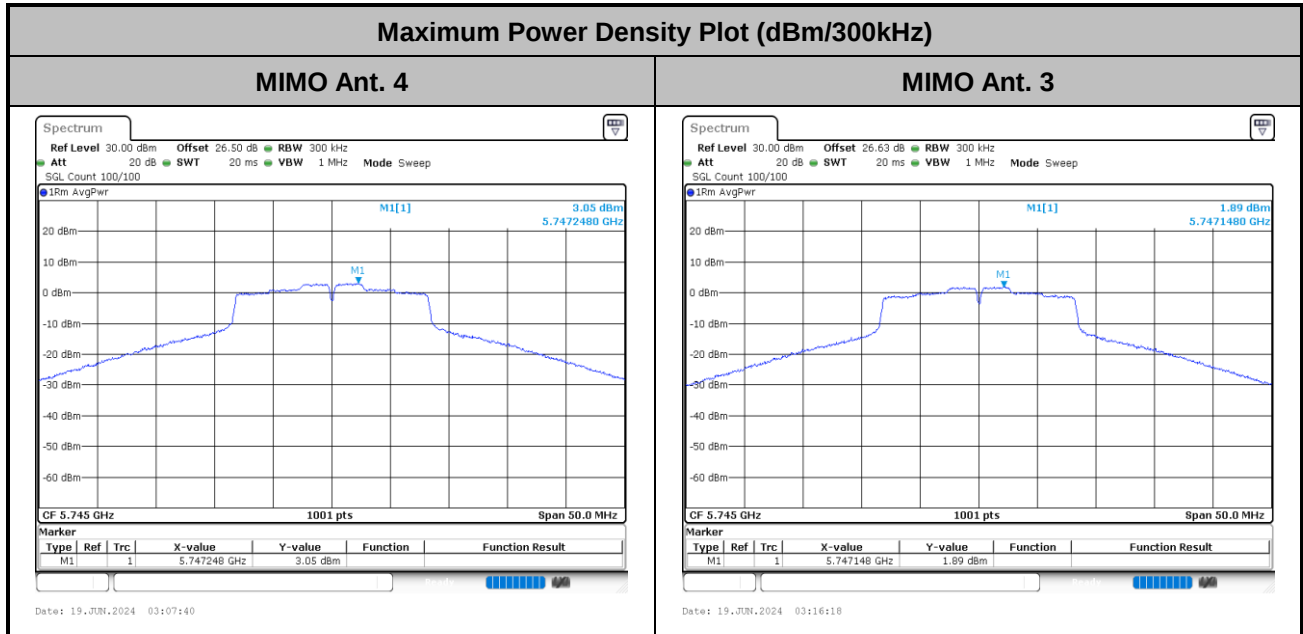
99% Occupied Bandwidth



N/A

Test Result of Power Spectral Density

<802.11a>

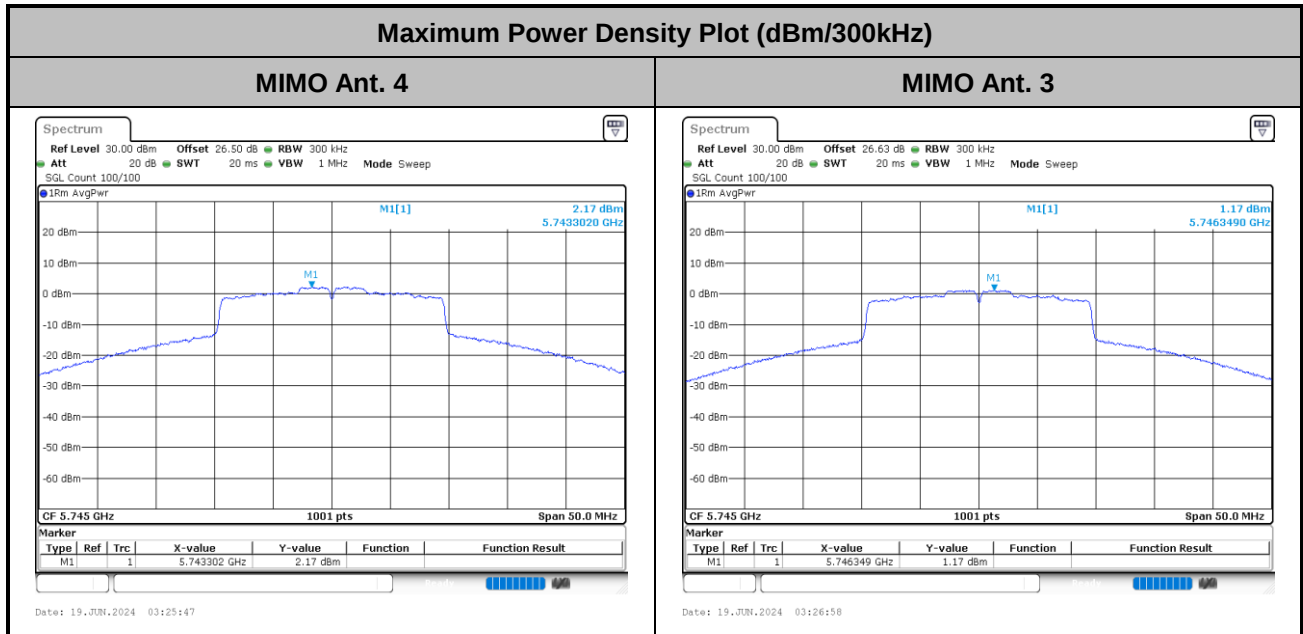


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



<802.11ax HE20>

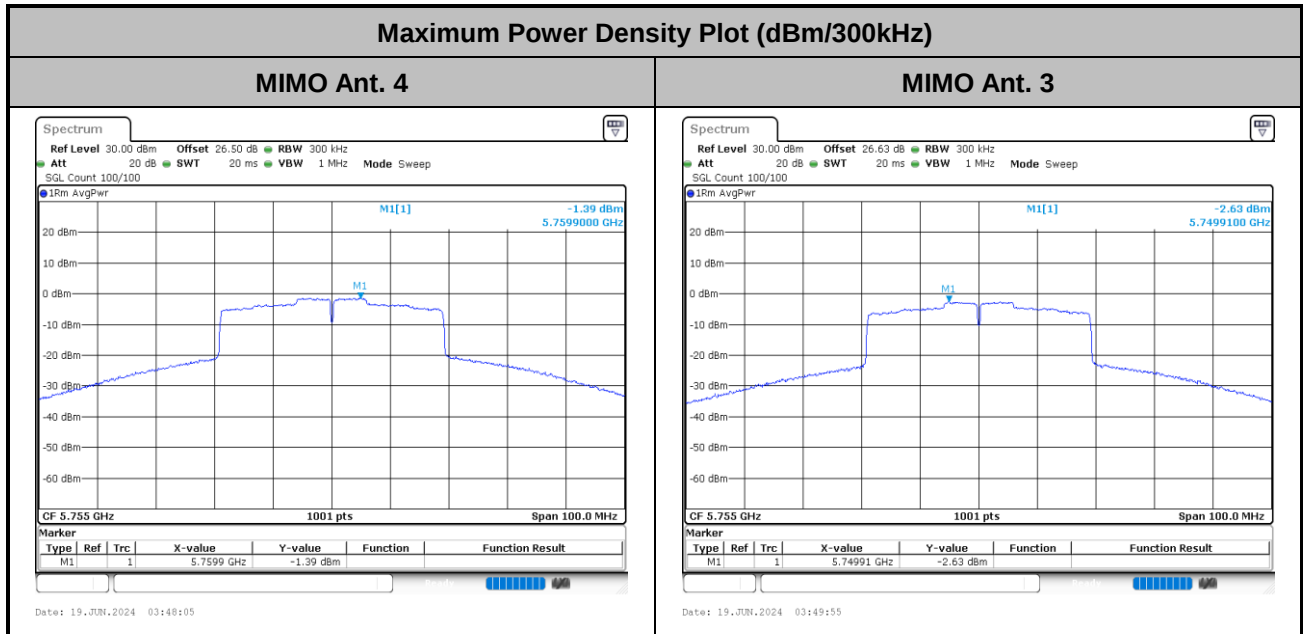


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



<802.11ax HE40>

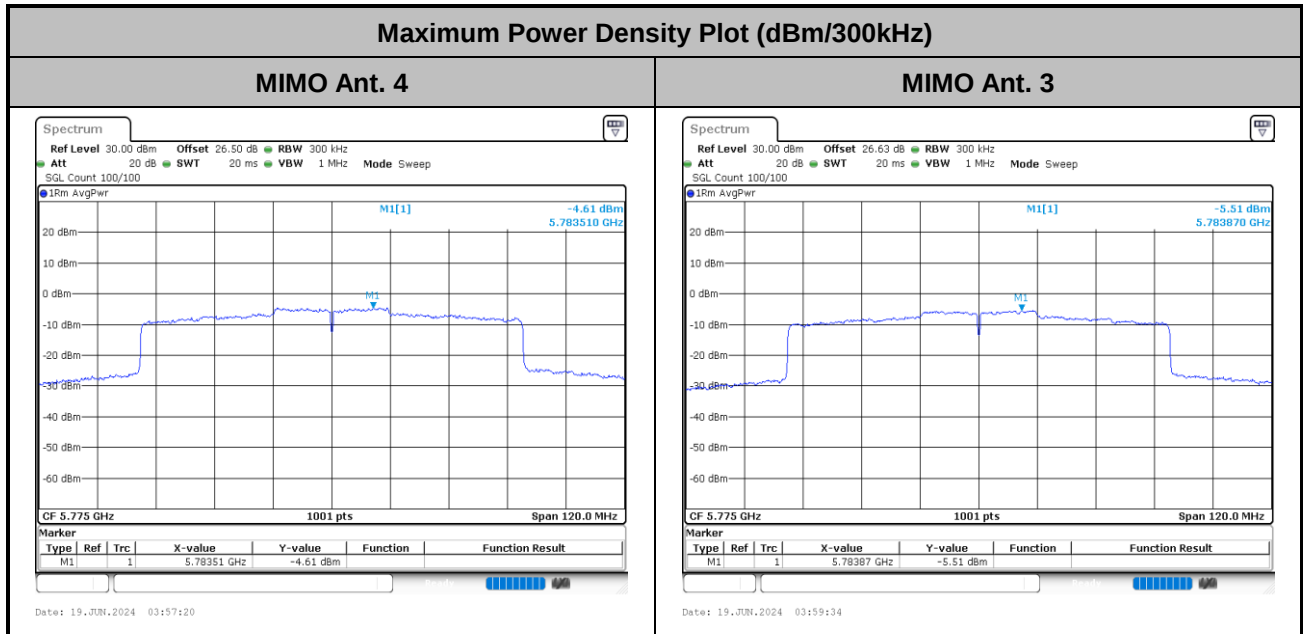


Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



<802.11ax HE80>



Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.



Appendix B. AC Conducted Emission Test Results

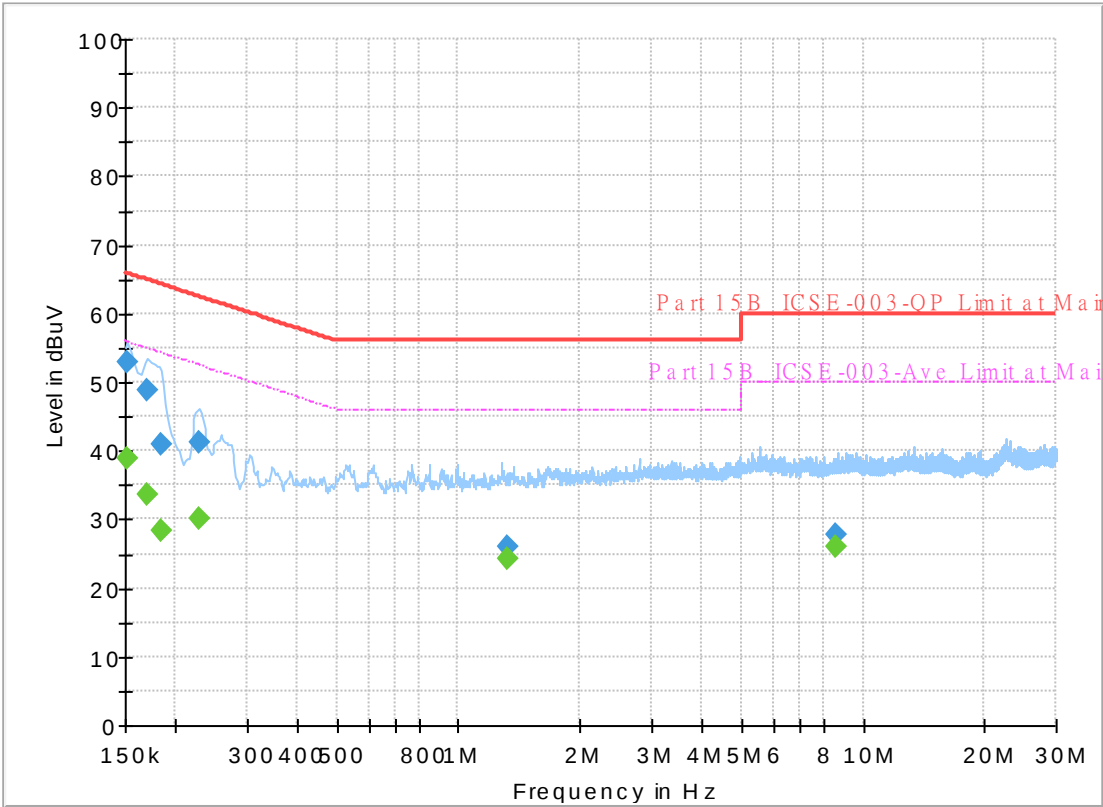
Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Test Mode :
Test Voltage :
Phase :

Mode 1
120Vac/60Hz
Line

Full Spectrum



Final_Result

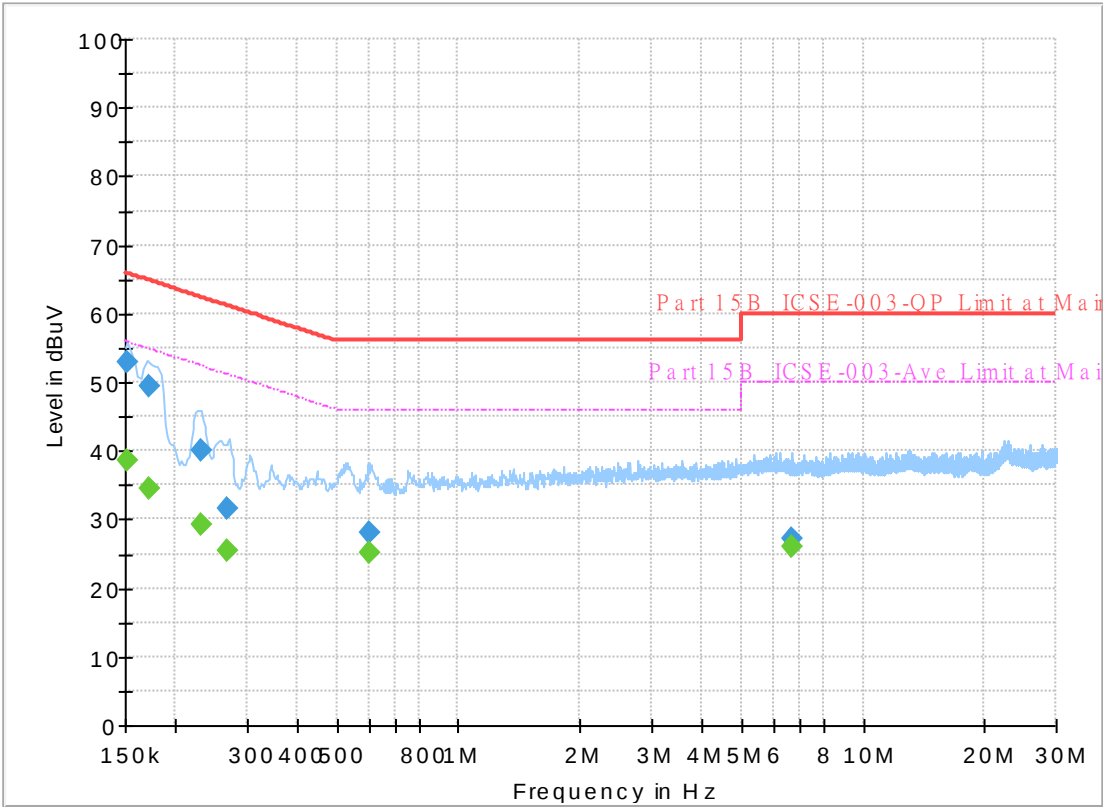
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	38.75	55.88	17.13	L1	OFF	19.8
0.152250	53.02	---	65.88	12.86	L1	OFF	19.8
0.170250	---	33.53	54.95	21.42	L1	OFF	19.8
0.170250	48.79	---	64.95	16.16	L1	OFF	19.8
0.183750	---	28.25	54.31	26.06	L1	OFF	19.8
0.183750	40.93	---	64.31	23.38	L1	OFF	19.8
0.228750	---	29.99	52.50	22.51	L1	OFF	19.8
0.228750	41.22	---	62.50	21.28	L1	OFF	19.8
1.315500	---	24.16	46.00	21.84	L1	OFF	19.9
1.315500	26.08	---	56.00	29.92	L1	OFF	19.9
8.565000	---	26.17	50.00	23.83	L1	OFF	20.2
8.565000	27.64	---	60.00	32.36	L1	OFF	20.2

EUT Information

Test Mode :
Test Voltage :
Phase :

Mode 1
120Vac/60Hz
Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	38.45	55.88	17.43	N	OFF	19.8
0.152250	53.07	---	65.88	12.81	N	OFF	19.8
0.172500	---	34.46	54.84	20.38	N	OFF	19.8
0.172500	49.52	---	64.84	15.32	N	OFF	19.8
0.231000	---	29.36	52.41	23.05	N	OFF	19.8
0.231000	39.94	---	62.41	22.47	N	OFF	19.8
0.269250	---	25.35	51.14	25.79	N	OFF	19.8
0.269250	31.55	---	61.14	29.59	N	OFF	19.8
0.600000	---	25.12	46.00	20.88	N	OFF	19.8
0.600000	28.11	---	56.00	27.89	N	OFF	19.8
6.693000	---	25.88	50.00	24.12	N	OFF	20.1
6.693000	27.18	---	60.00	32.82	N	OFF	20.1



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Ken Kuo, Tim Lee and Wilson Wu	Temperature :	21.7~23.5°C
		Relative Humidity :	55.2~62.4%

Note symbol

-L	Low channel location
-R	High channel location



<For B1~3>

C1-1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-1	5.15-5.25	4+3	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	4+3	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	4+3	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	Full RU	-
Mode 5	U-NII-1	5.15-5.25	4+3	802.11ax HE20	44	5220	MCS0	Full RU	-
Mode 6	U-NII-1	5.15-5.25	4+3	802.11ax HE20	48	5240	MCS0	Full RU	-
Mode 7	U-NII-1	5.15-5.25	4+3	802.11ax HE40	38	5190	MCS0	Full RU	-
Mode 8	U-NII-1	5.15-5.25	4+3	802.11ax HE40	46	5230	MCS0	Full RU	-
Mode 9	U-NII-1	5.15-5.25	4+3	802.11ax HE80	42	5210	MCS0	Full RU	-
Mode 10	U-NII-2A	5.25-5.35	4+3	802.11a	52	5260	6Mbps	-	-
Mode 11	U-NII-2A	5.25-5.35	4+3	802.11a	60	5300	6Mbps	-	-
Mode 12	U-NII-2A	5.25-5.35	4+3	802.11a	64	5320	6Mbps	-	-
Mode 13	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	52	5260	MCS0	Full RU	-
Mode 14	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	60	5300	MCS0	Full RU	-
Mode 15	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	Full RU	-
Mode 16	U-NII-2A	5.25-5.35	4+3	802.11ax HE40	54	5270	MCS0	Full RU	-
Mode 17	U-NII-2A	5.25-5.35	4+3	802.11ax HE40	62	5310	MCS0	Full RU	-
Mode 18	U-NII-2A	5.25-5.35	4+3	802.11ax HE80	58	5290	MCS0	Full RU	-
Mode 19	U-NII-2C	5.47-5.725	4+3	802.11a	100	5500	6Mbps	-	-
Mode 20	U-NII-2C	5.47-5.725	4+3	802.11a	116	5580	6Mbps	-	-
Mode 21	U-NII-2C	5.47-5.725	4+3	802.11a	140	5700	6Mbps	-	-
Mode 22	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	Full RU	-
Mode 23	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	116	5580	MCS0	Full RU	-
Mode 24	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	Full RU	-
Mode 25	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	102	5510	MCS0	Full RU	-
Mode 26	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	110	5550	MCS0	Full RU	-



Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 27	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	134	5670	MCS0	Full RU	-
Mode 28	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	106	5530	MCS0	Full RU	-
Mode 29	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	122	5610	MCS0	Full RU	-
Mode 30	U-NII-2C	5.47-5.725	4+3	802.11a	144	5720	6Mbps	-	-
Mode 31	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	144	5720	MCS0	Full RU	-
Mode 32	U-NII-2C	5.47-5.725	4+3	802.11ax HE40	142	5710	MCS0	Full RU	-
Mode 33	U-NII-2C	5.47-5.725	4+3	802.11ax HE80	138	5690	MCS0	Full RU	-
Mode 52	U-NII-2A	5.25-5.35	4+3	802.11a	64	5320	6Mbps	-	LF
Mode 53	U-NII-2A	5.25-5.35	4+3	802.11a	64	5320	6Mbps	-	SHF
Mode 54	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	Partial 26/0	-
Mode 55	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	Partial 52/37	-
Mode 56	U-NII-1	5.15-5.25	4+3	802.11ax HE20	36	5180	MCS0	Partial 106/53	-
Mode 57	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	Partial 26/8	-
Mode 58	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	Partial 52/40	-
Mode 59	U-NII-2A	5.25-5.35	4+3	802.11ax HE20	64	5320	MCS0	Partial 106/53	-
Mode 60	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	Partial 26/8	-
Mode 61	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	Partial 52/37	-
Mode 62	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	100	5500	MCS0	Partial 106/53	-
Mode 63	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	Partial 26/8	-
Mode 64	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	Partial 52/40	-
Mode 65	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	140	5700	MCS0	Partial 106/54	-
Mode 80	U-NII-2C	5.47-5.725	4+3	802.11a	104	5520	6Mbps	-	-
Mode 81	U-NII-2C	5.47-5.725	4+3	802.11a	136	5680	6Mbps	-	-
Mode 82	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	104	5520	MCS0	Full RU	-
Mode 83	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	136	5680	MCS0	Full RU	-
Mode 84	U-NII-2C	5.47-5.725	4+3	802.11a	40	5200	6Mbps	-	-
Mode 85	U-NII-2C	5.47-5.725	4+3	802.11ax HE20	40	5200	MCS0	Full RU	-



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
1	802.11a	36	5149.94	51.64	54.00	-2.36	H	Avg.	Pass	-	Band Edge
	802.11a	36	15540.00	44.01	54.00	-9.99	V	Avg.	Pass	-	Harmonic
2	802.11a	44	5149.60	52.09	54.00	-1.91	H	Avg.	Pass	-	Band Edge
	802.11a	44	15660.00	43.68	54.00	-10.32	H	Avg.	Pass	-	Harmonic
3	802.11a	48	5148.80	49.16	54.00	-4.84	H	Avg.	Pass	-	Band Edge
	802.11a	48	15720.00	43.47	54.00	-10.53	V	Avg.	Pass	-	Harmonic
4	802.11ax HE20	36	5149.94	51.61	54.00	-2.39	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	36	15540.00	43.36	54.00	-10.64	V	Avg.	Pass	Full RU	Harmonic
5	802.11ax HE20	44	5149.60	50.68	54.00	-3.32	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	44	15660.00	43.42	54.00	-10.58	V	Avg.	Pass	Full RU	Harmonic
6	802.11ax HE20	48	5148.56	47.98	54.00	-6.02	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	48	15720.00	43.49	54.00	-10.51	V	Avg.	Pass	Full RU	Harmonic
7	802.11ax HE40	38	5148.39	50.49	54.00	-3.51	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	38	15570.00	43.64	54.00	-10.36	H	Avg.	Pass	Full RU	Harmonic
8	802.11ax HE40	46	5149.96	50.88	54.00	-3.12	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	46	15690.00	42.59	54.00	-11.41	V	Avg.	Pass	Full RU	Harmonic
9	802.11ax HE80	42	5149.73	50.70	54.00	-3.30	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	42	15630.00	43.19	54.00	-10.81	V	Avg.	Pass	Full RU	Harmonic
10	802.11a	52	5350.20	47.41	54.00	-6.59	V	Avg.	Pass	-	Band Edge
	802.11a	52	15780.00	43.89	54.00	-10.11	V	Avg.	Pass	-	Harmonic
11	802.11a	60	5350.56	50.91	54.00	-3.09	H	Avg.	Pass	-	Band Edge
	802.11a	60	15900.00	43.44	54.00	-10.56	H	Avg.	Pass	-	Harmonic
12	802.11a	64	5350.10	52.47	54.00	-1.53	H	Avg.	Pass	-	Band Edge
	802.11a	64	15960.00	43.19	54.00	-10.81	V	Avg.	Pass	-	Harmonic
13	802.11ax HE20	52	5350.40	50.85	54.00	-3.15	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	52	15780.00	43.97	54.00	-10.03	V	Avg.	Pass	Full RU	Harmonic
14	802.11ax HE20	60	5352.16	51.50	54.00	-2.50	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	60	15900.00	43.14	54.00	-10.86	H	Avg.	Pass	Full RU	Harmonic
15	802.11ax HE20	64	5350.10	48.24	54.00	-5.76	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	64	15960.00	42.75	54.00	-11.25	V	Avg.	Pass	Full RU	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
16	802.11ax HE40	54	5350.18	52.39	54.00	-1.61	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	54	15810.00	43.17	54.00	-10.83	H	Avg.	Pass	Full RU	Harmonic
17	802.11ax HE40	62	5350.05	52.34	54.00	-1.66	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	62	15930.00	44.18	54.00	-9.82	H	Avg.	Pass	Full RU	Harmonic
18	802.11ax HE80	58	5350.01	51.29	54.00	-2.71	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	58	15870.00	44.56	54.00	-9.44	V	Avg.	Pass	Full RU	Harmonic
19	802.11a	100	5469.40	65.41	68.20	-2.79	H	Peak	Pass	-	Band Edge
	802.11a	100	11000.00	41.08	54.00	-12.92	V	Avg.	Pass	-	Harmonic
20	802.11a	116	5458.33	47.33	54.00	-6.67	H	Avg.	Pass	-	Band Edge
	802.11a	116	11160.00	41.42	54.00	-12.58	H	Avg.	Pass	-	Harmonic
21	802.11a	140	5725.68	65.27	68.20	-2.93	H	Peak	Pass	-	Band Edge
	802.11a	140	11400.00	42.43	54.00	-11.57	H	Avg.	Pass	-	Harmonic
22	802.11ax HE20	100	5467.90	66.27	68.20	-1.93	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	100	11000.00	41.15	54.00	-12.85	V	Avg.	Pass	Full RU	Harmonic
23	802.11ax HE20	116	5459.48	49.64	54.00	-4.36	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	116	11160.00	41.37	54.00	-12.63	V	Avg.	Pass	Full RU	Harmonic
24	802.11ax HE20	140	5725.16	66.63	68.20	-1.57	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	140	11400.00	42.02	54.00	-11.98	H	Avg.	Pass	Full RU	Harmonic
25	802.11ax HE40	102	5468.08	64.90	68.20	-3.30	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	102	11020.00	41.51	54.00	-12.49	H	Avg.	Pass	Full RU	Harmonic
26	802.11ax HE40	110	5460.00	50.87	54.00	-3.13	V	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	110	11100.00	41.26	54.00	-12.74	V	Avg.	Pass	Full RU	Harmonic
27	802.11ax HE40	134	5725.29	65.44	68.20	-2.76	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE40	134	11340.00	41.94	54.00	-12.06	V	Avg.	Pass	Full RU	Harmonic
28	802.11ax HE80	106	5459.80	52.34	54.00	-1.66	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	106	11060.00	43.15	54.00	-10.85	V	Avg.	Pass	Full RU	Harmonic
29	802.11ax HE80	122	5725.48	66.14	68.20	-2.06	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE80	122	11220.00	40.82	54.00	-13.18	H	Avg.	Pass	Full RU	Harmonic
30	802.11a	144	5388.22	45.62	54.00	-8.38	H	Avg.	Pass	-	Band Edge
	802.11a	144	11440.00	41.77	54.00	-12.23	H	Avg.	Pass	-	Harmonic
31	802.11ax HE20	144	5410.45	45.65	54.00	-8.35	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	144	11440.00	41.35	54.00	-12.65	H	Avg.	Pass	Full RU	Harmonic

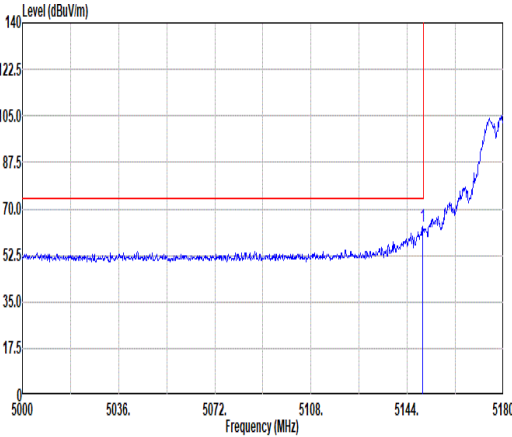
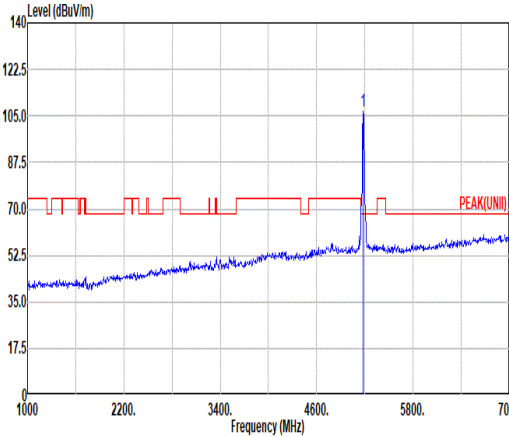
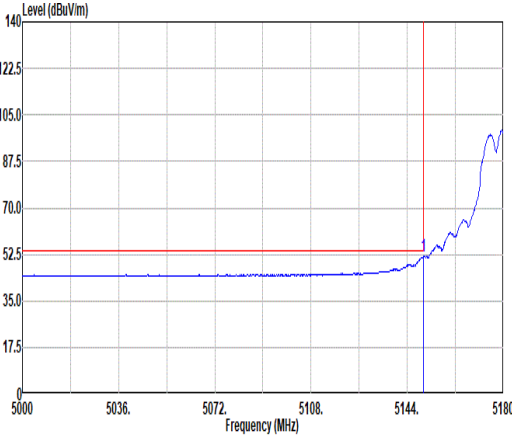
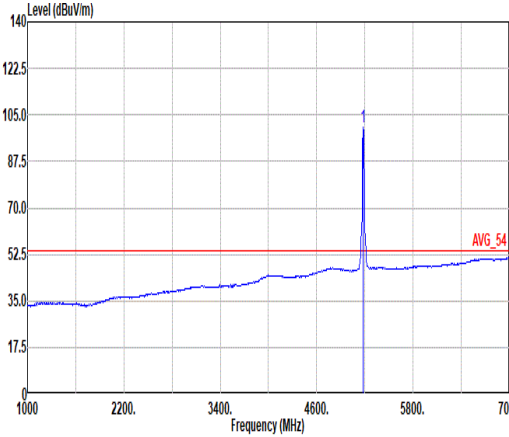


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
32	802.11ax HE40	142	5413.96	46.55	54.00	-7.45	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE40	142	11420.00	41.35	54.00	-12.65	H	Avg.	Pass	Full RU	Harmonic
33	802.11ax HE80	138	5459.59	50.97	54.00	-3.03	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE80	138	11380.00	41.48	54.00	-12.52	H	Avg.	Pass	Full RU	Harmonic
52	LF	64	39.70	33.83	40.00	-6.17	V	Peak	Pass	-	LF
53	SHF	64	31497.00	43.11	74.00	-30.89	H	Peak	Pass	-	SHF
54	802.11ax HE20	36	5000.90	47.37	54.00	-6.63	V	Avg.	Pass	Partial 26/0	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Partial 26/0	Harmonic
55	802.11ax HE20	36	5001.08	47.63	54.00	-6.37	V	Avg.	Pass	Partial 52/37	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Partial 52/37	Harmonic
56	802.11ax HE20	36	5001.44	46.99	54.00	-7.01	V	Avg.	Pass	Partial 106/53	Band Edge
	802.11ax HE20	36	-	-	-	-	-	-	-	Partial 106/53	Harmonic
57	802.11ax HE20	64	5400.78	45.80	54.00	-8.20	V	Avg.	Pass	Partial 26/8	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Partial 26/8	Harmonic
58	802.11ax HE20	64	5399.52	45.92	54.00	-8.08	V	Avg.	Pass	Partial 52/40	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Partial 52/40	Harmonic
59	802.11ax HE20	64	5354.02	46.37	54.00	-7.63	H	Avg.	Pass	Partial 106/53	Band Edge
	802.11ax HE20	64	-	-	-	-	-	-	-	Partial 106/53	Harmonic
60	802.11ax HE20	100	5405.05	46.28	54.00	-7.72	H	Avg.	Pass	Partial 26/8	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Partial 26/8	Harmonic
61	802.11ax HE20	100	5397.10	46.10	54.00	-7.90	H	Avg.	Pass	Partial 52/37	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Partial 52/37	Harmonic
62	802.11ax HE20	100	5454.25	46.11	54.00	-7.89	H	Avg.	Pass	Partial 106/53	Band Edge
	802.11ax HE20	100	-	-	-	-	-	-	-	Partial 106/53	Harmonic
63	802.11ax HE20	140	5748.75	58.31	68.20	-9.89	V	Peak	Pass	Partial 26/8	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Partial 26/8	Harmonic
64	802.11ax HE20	140	5737.31	57.36	68.20	-10.84	V	Peak	Pass	Partial 52/40	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Partial 52/40	Harmonic
65	802.11ax HE20	140	5739.07	57.77	68.20	-10.43	V	Peak	Pass	Partial 106/54	Band Edge
	802.11ax HE20	140	-	-	-	-	-	-	-	Partial 106/54	Harmonic
80	802.11a	104	5459.14	51.32	54.00	-2.68	H	Avg.	Pass	-	Band Edge
	802.11a	104	-	-	-	-	-	-	-	-	Harmonic

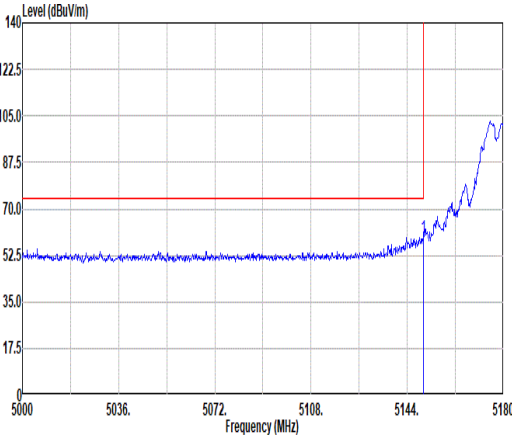
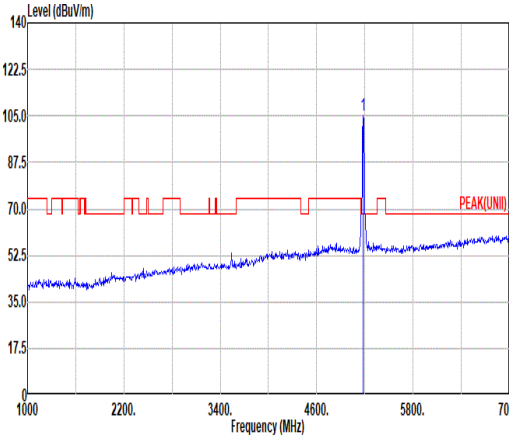
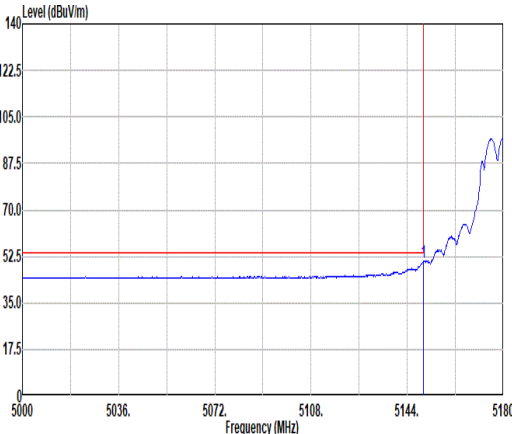
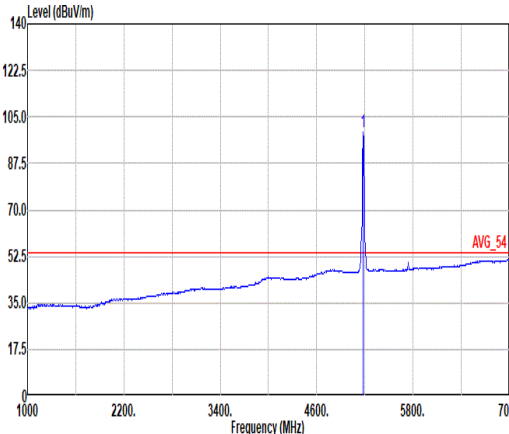


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
81	802.11a	136	5730.32	64.73	68.20	-3.47	H	Peak	Pass	-	Band Edge
	802.11a	136	-	-	-	-	-	-	-	-	Harmonic
82	802.11ax HE20	104	5459.48	52.23	54.00	-1.77	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	104	-	-	-	-	-	-	-	Full RU	Harmonic
83	802.11ax HE20	136	5725.31	66.68	68.20	-1.52	H	Peak	Pass	Full RU	Band Edge
	802.11ax HE20	136	-	-	-	-	-	-	-	Full RU	Harmonic
84	802.11a	40	5148.72	52.25	54.00	-1.75	H	Avg.	Pass	Full RU	Band Edge
	802.11a	40	-	-	-	-	-	-	-	Full RU	Harmonic
85	802.11ax HE20	40	5148.94	51.71	54.00	-2.29	H	Avg.	Pass	Full RU	Band Edge
	802.11ax HE20	40	-	-	-	-	-	-	-	Full RU	Harmonic

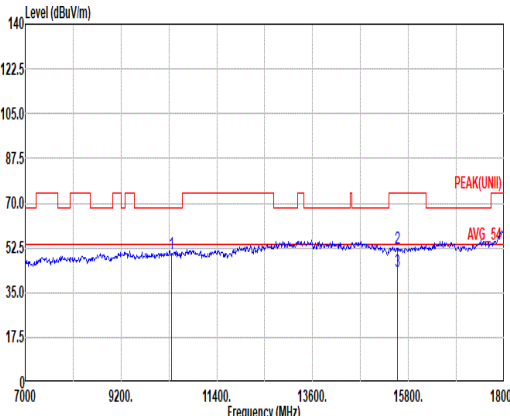
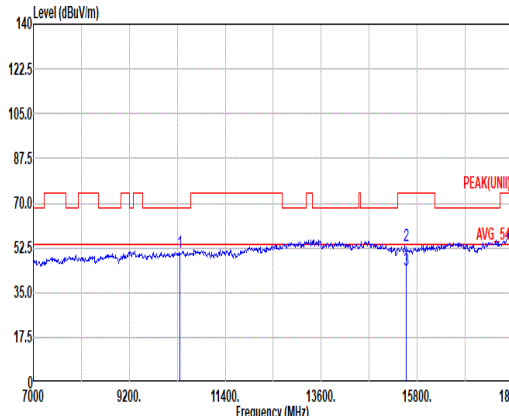


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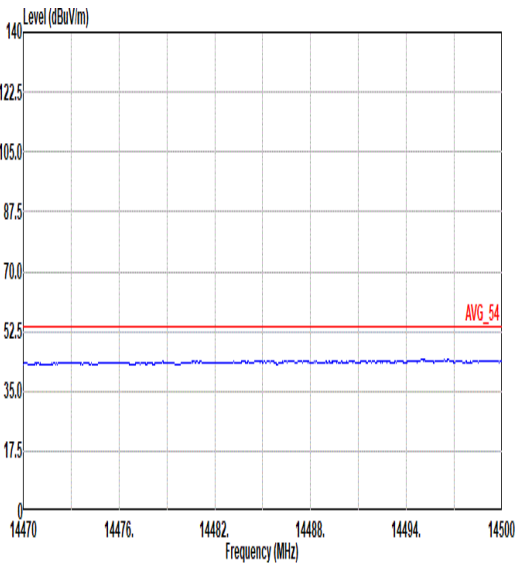
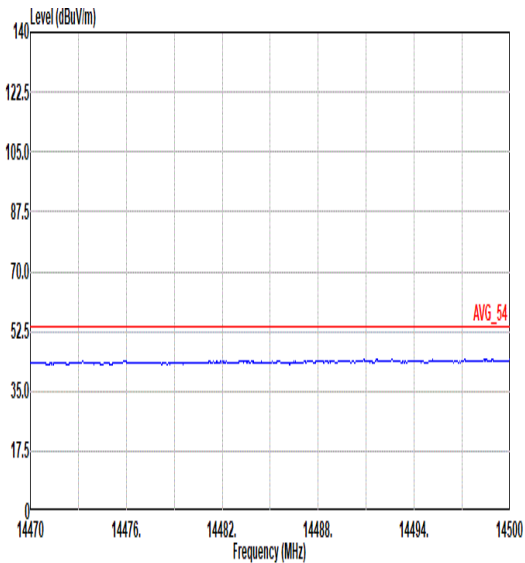
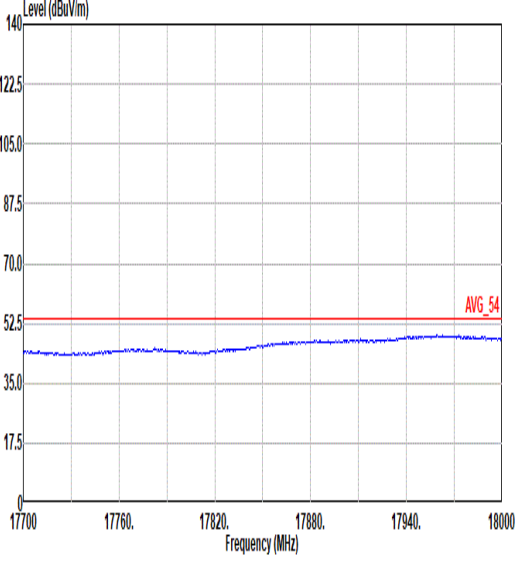
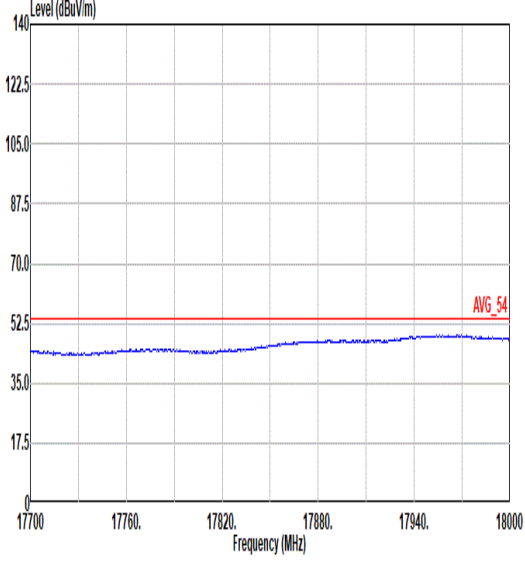


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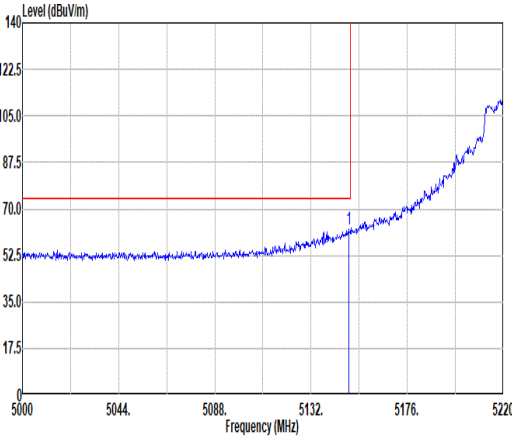
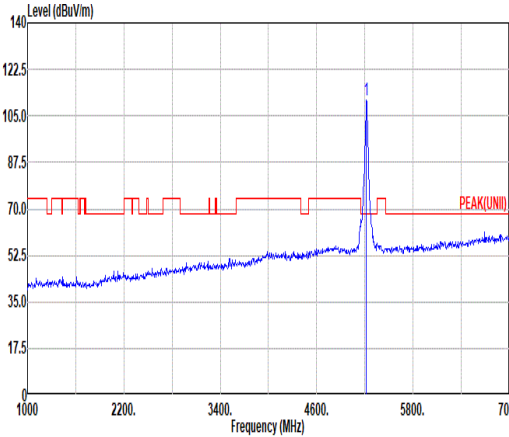
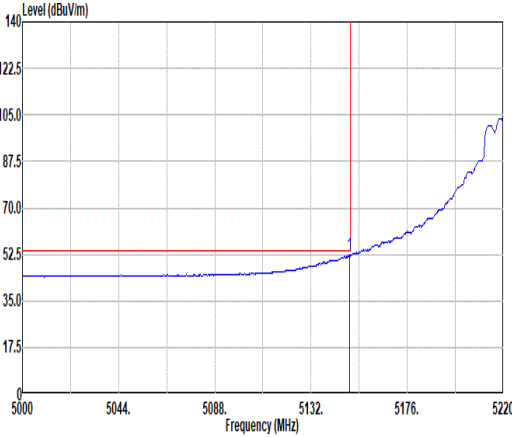
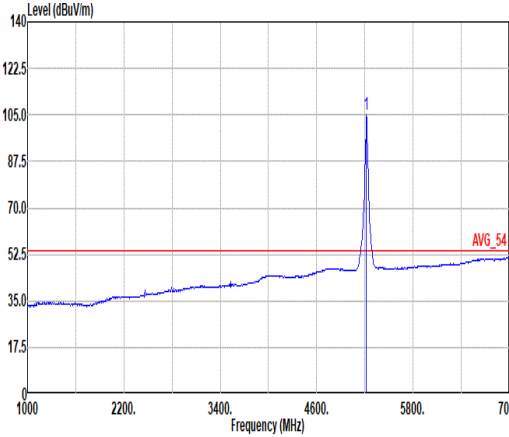


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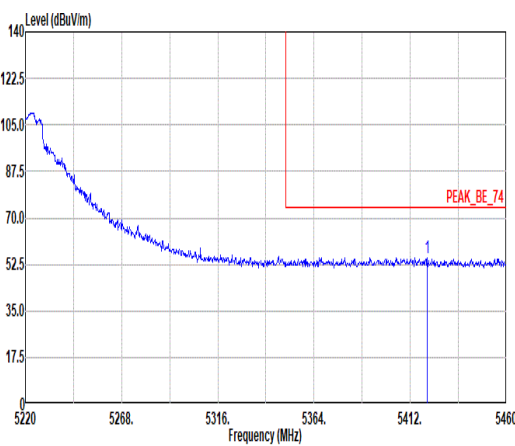
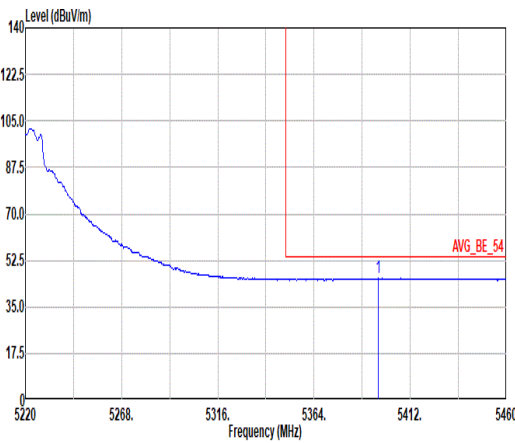


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ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

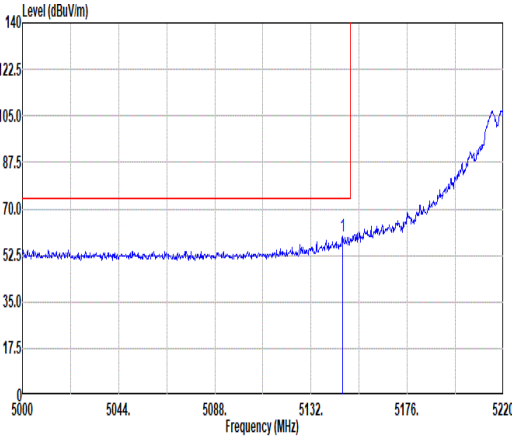
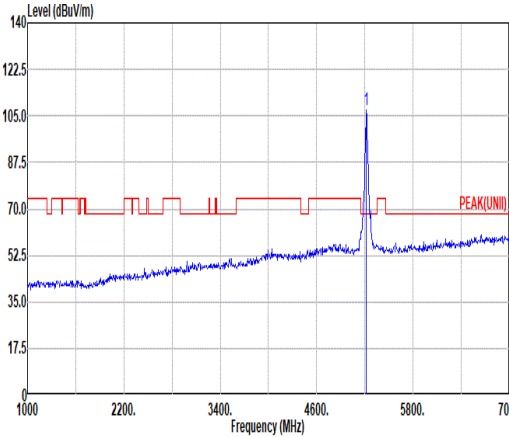
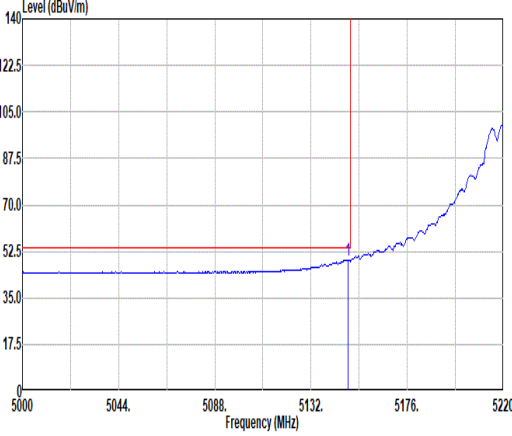
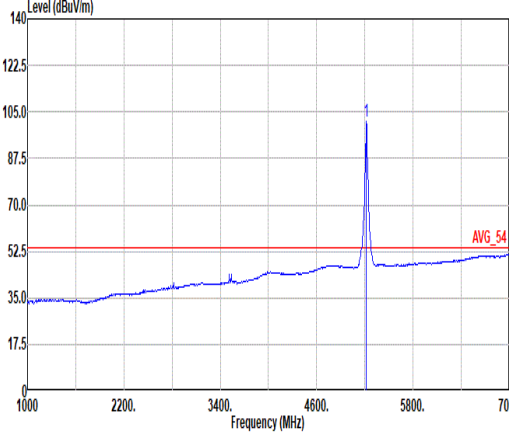


Mode	2																																																																																															
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ANT	4+3																																																																																															
Pol.	Horizontal						Fundamental																																																																																									
Peak																																																																																																
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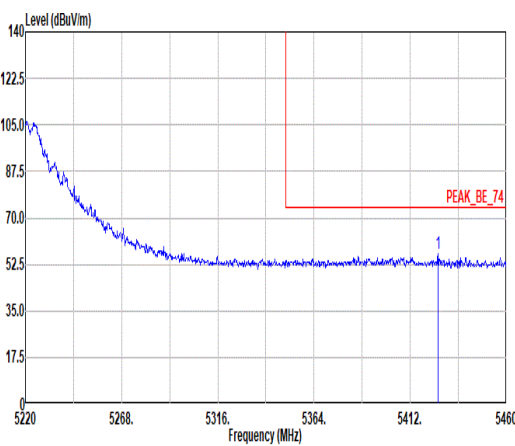
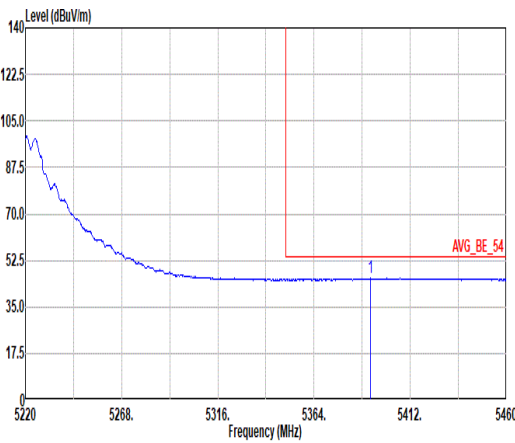


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ANT	4+3																																									
Pol.	Horizontal	Fundamental																																								
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></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>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 5420.40</td><td>55.03</td><td>74.00</td><td>-18.97</td><td>43.38</td><td>32.94</td><td>11.85</td><td>33.14</td><td>0.00</td><td>179 70 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 5420.40	55.03	74.00	-18.97	43.38	32.94	11.85	33.14	0.00	179 70 PEAK	Blank
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Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></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>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 5396.16</td><td>45.74</td><td>54.00</td><td>-8.26</td><td>34.02</td><td>32.91</td><td>11.94</td><td>33.13</td><td>0.00</td><td>179 70 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 5396.16	45.74	54.00	-8.26	34.02	32.91	11.94	33.13	0.00	179 70 AVERAGE	Blank
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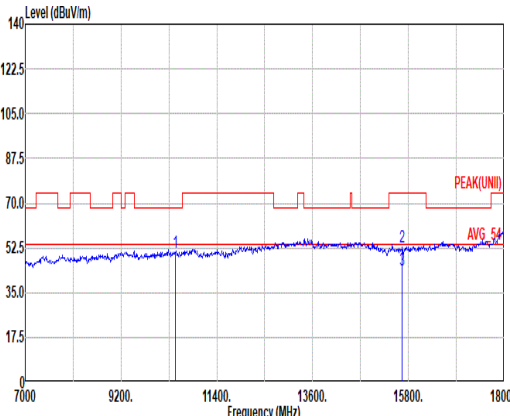
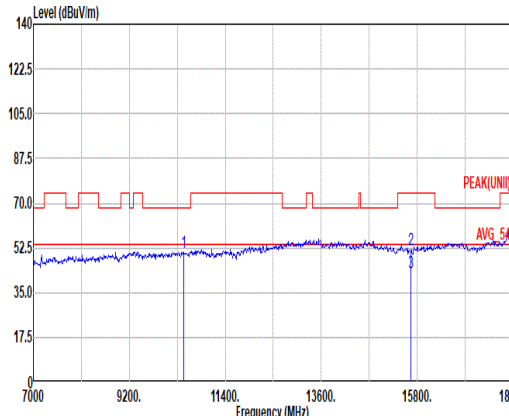


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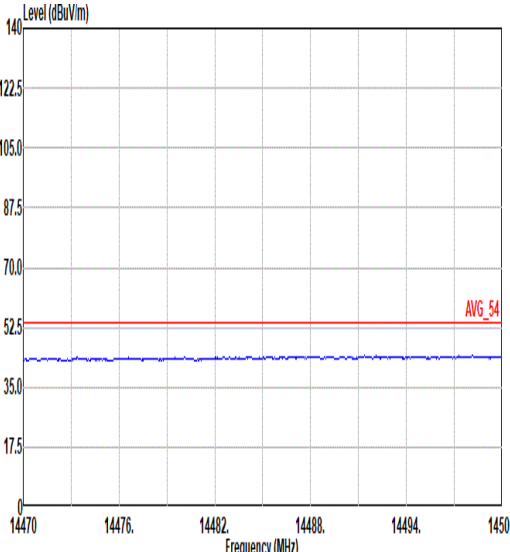
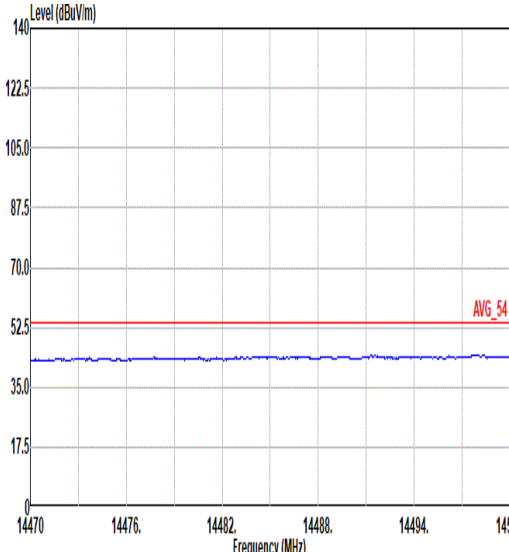
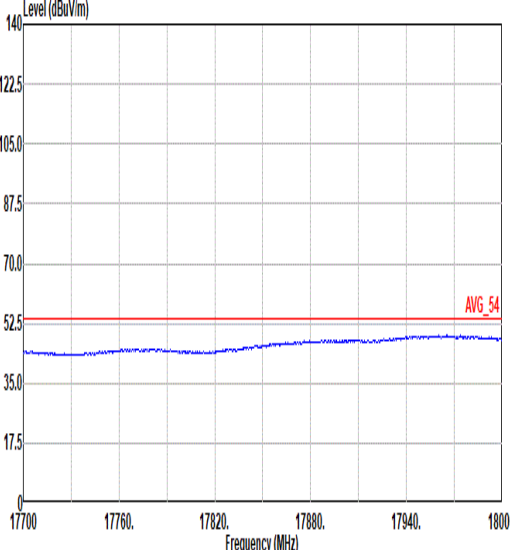
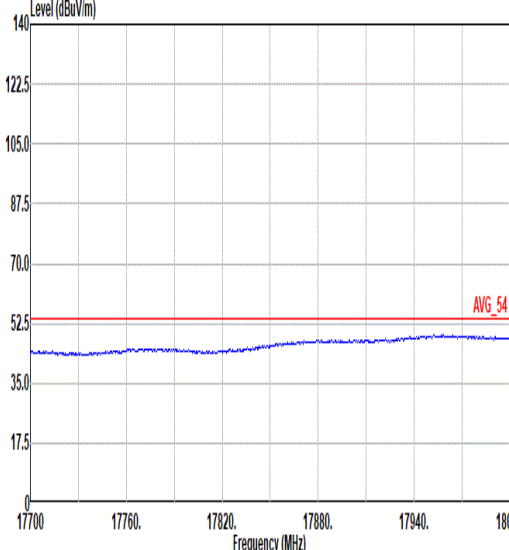


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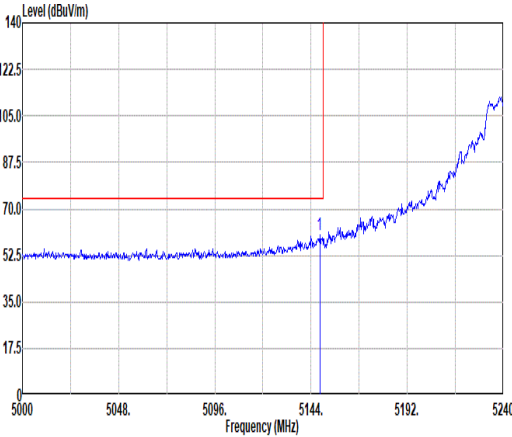
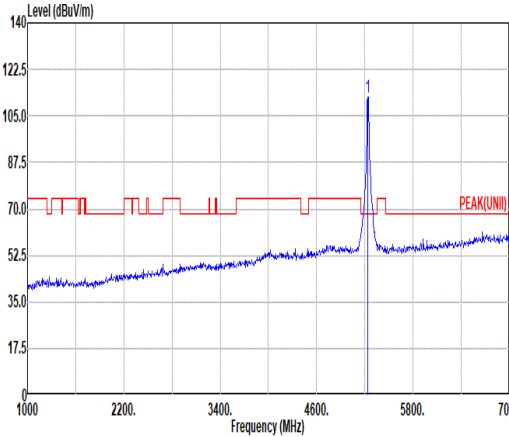
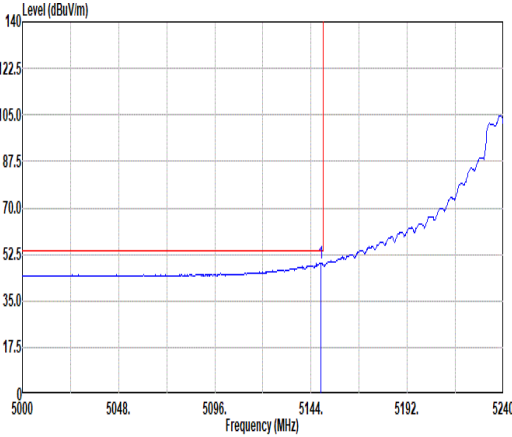
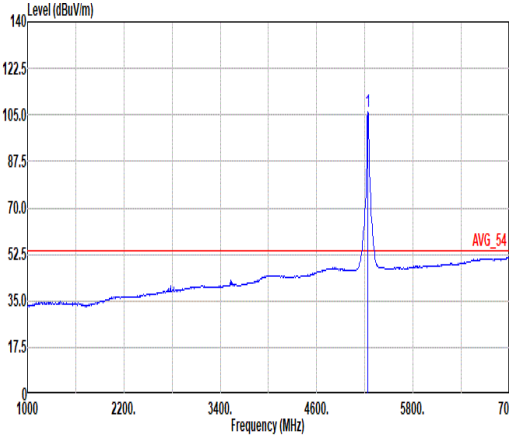


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ANT	4+3																																																																													
Pol.	Horizontal						Vertical																																																																							
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Mode	2	
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ANT	4+3	
Pol.	Horizontal	Vertical
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17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

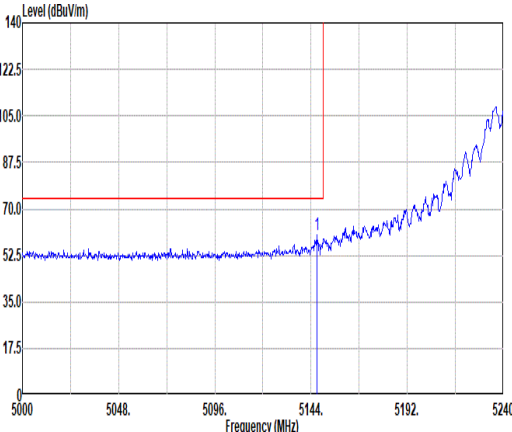
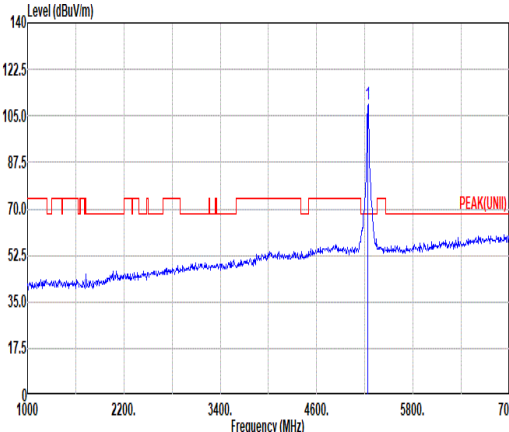
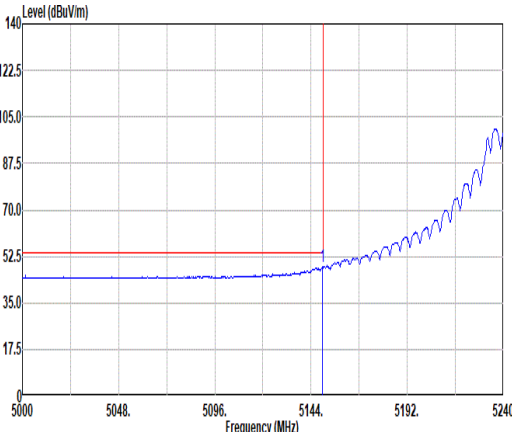
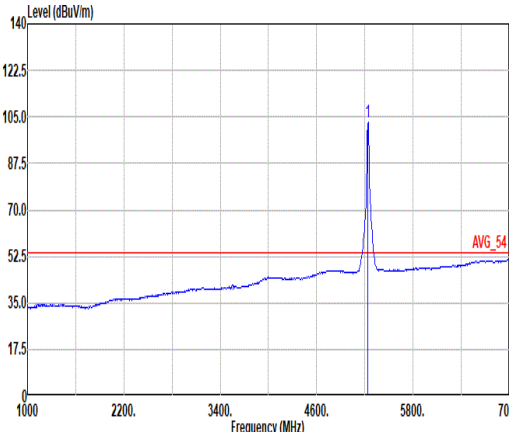


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	Band Edge - L																																																																																																
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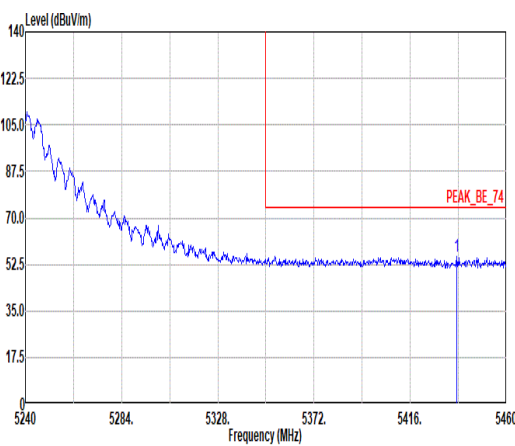
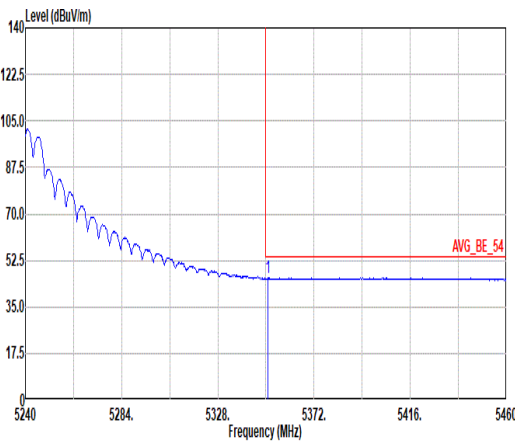


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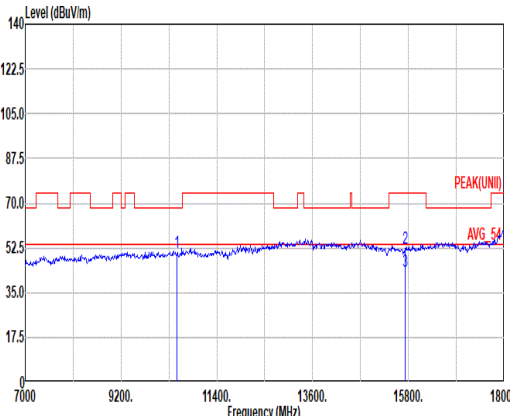
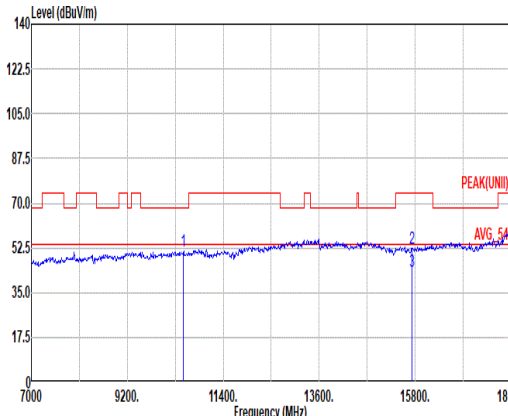


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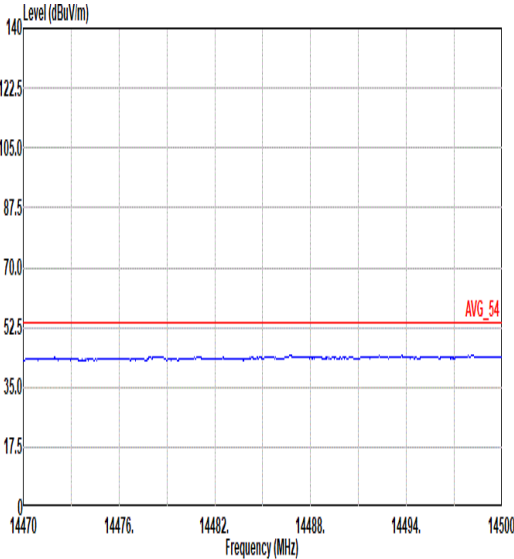
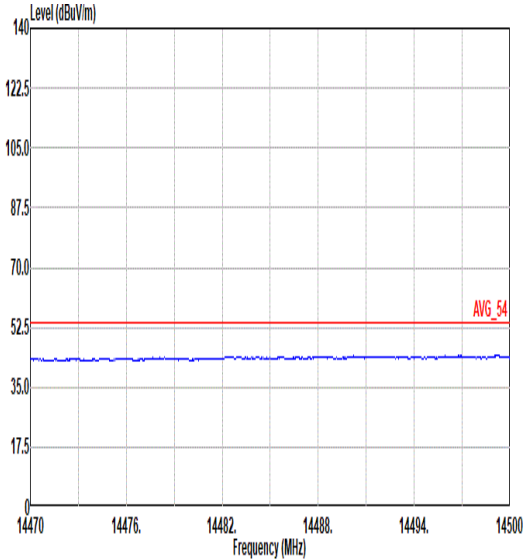
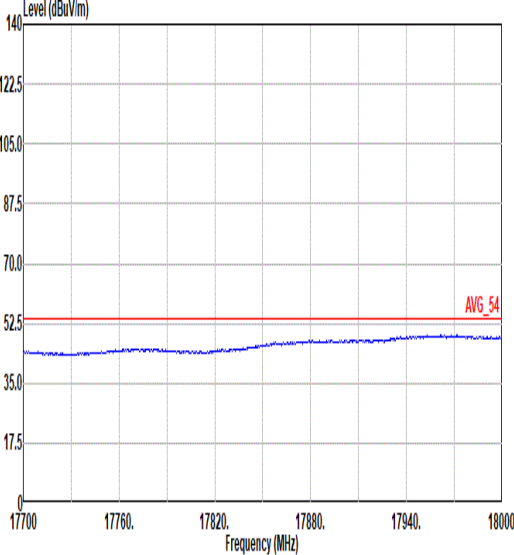
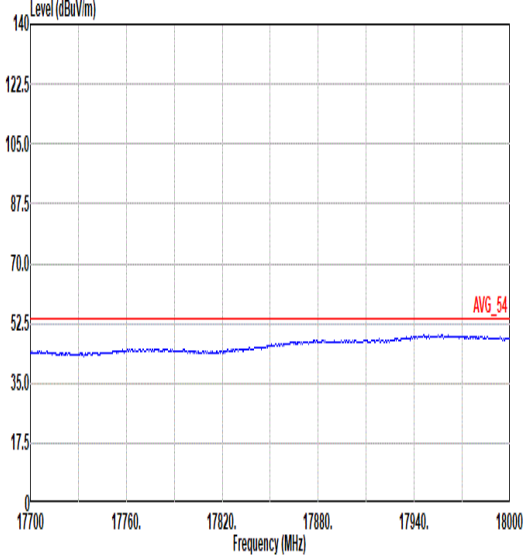


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Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m BBHA 9120 D_91200-02038 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</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>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5437.34</td><td>55.38</td><td>74.00</td><td>-18.62</td><td>43.81</td><td>32.97</td><td>11.75</td><td>33.15</td><td>0.00</td><td>264</td><td>0</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	dB/m	dB	dB	dB	cm	deg	1	5437.34	55.38	74.00	-18.62	43.81	32.97	11.75	33.15	0.00	264	0	PEAK	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																						
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Avg	 Site : 03CH12-HY Condition: AVG_BE_54 3m BBHA 9120 D_91200-02038 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5350.88</td><td>45.90</td><td>54.00</td><td>-8.10</td><td>34.34</td><td>33.00</td><td>11.68</td><td>33.12</td><td>0.00</td><td>264</td><td>0</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg	1	5350.88	45.90	54.00	-8.10	34.34	33.00	11.68	33.12	0.00	264	0	AVERAGE	Blank
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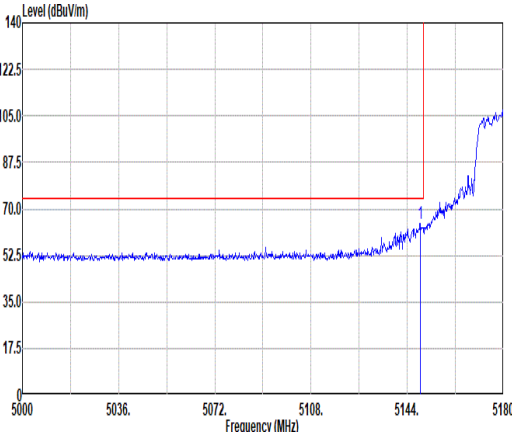
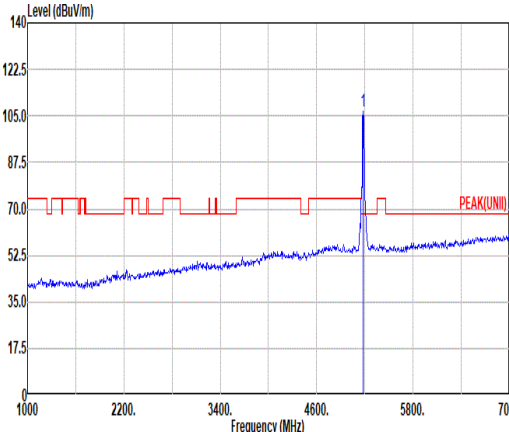
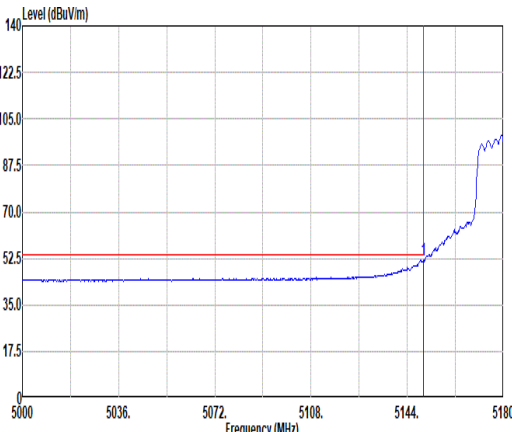
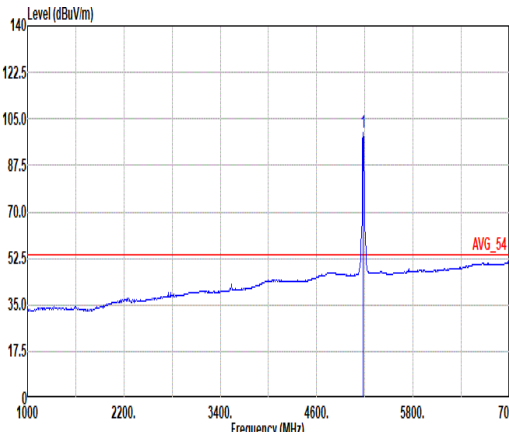


Mode	3																																																																													
	Harmonic																																																																													
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ANT	4+3																																																																													
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	Site : 03CH12-HY Condition: PEAK(UNII) 3m 91200-02114-240711 HORIZONTAL																																																																													
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																				
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																				
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2	15720.00	52.56	74.00	-21.44	59.37	38.14	22.05	67.37	0.37	188	69 Peak																																																																			
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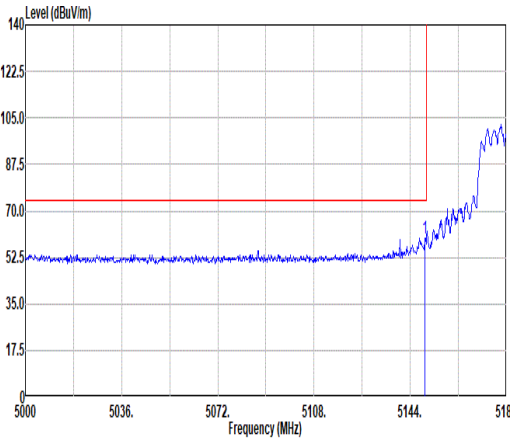
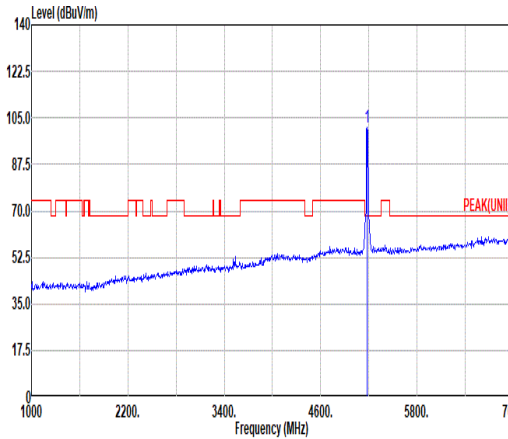
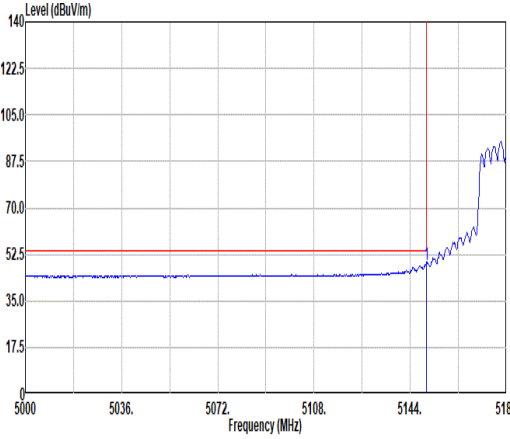
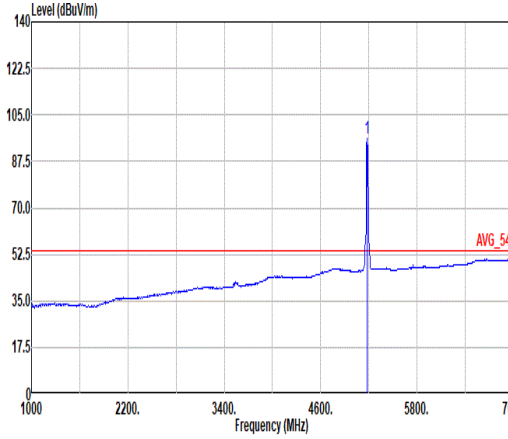


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ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

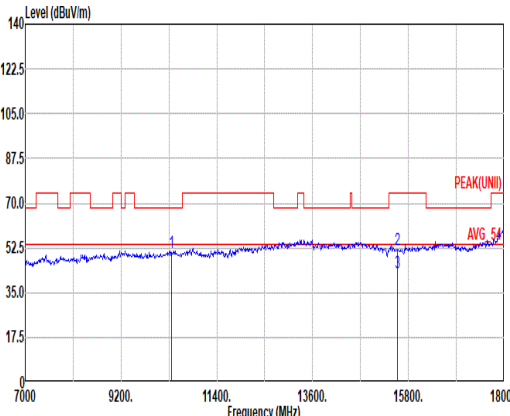
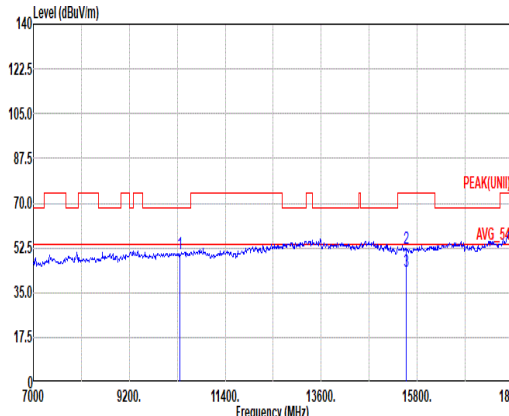


Mode	4																																																				
	Band Edge																																																				
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ANT	4+3																																																				
Pol.	Horizontal																																																				
Peak																																																					
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																												
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																												
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																												
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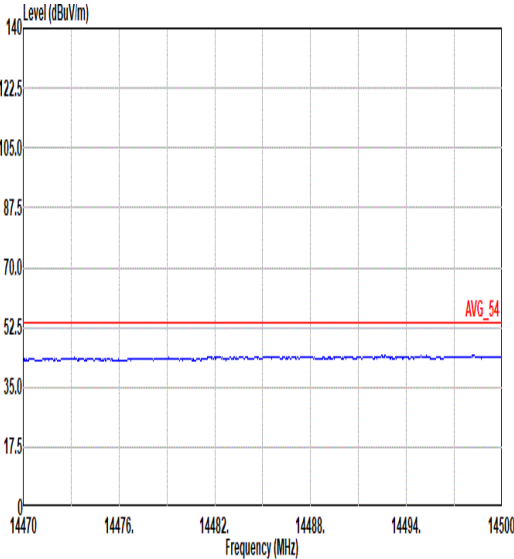
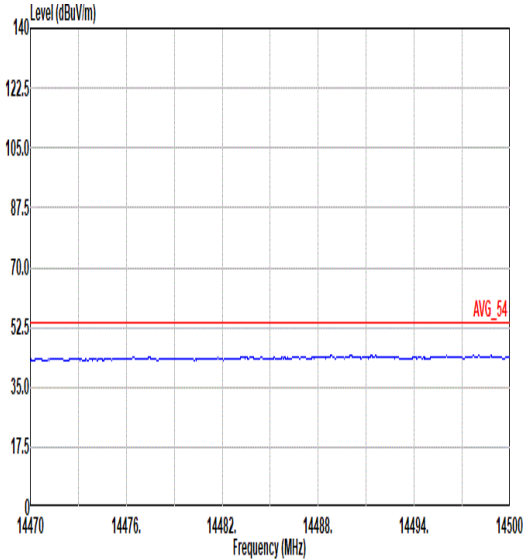
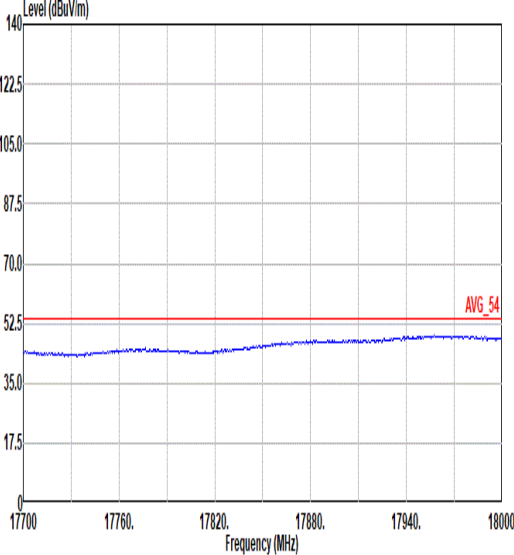
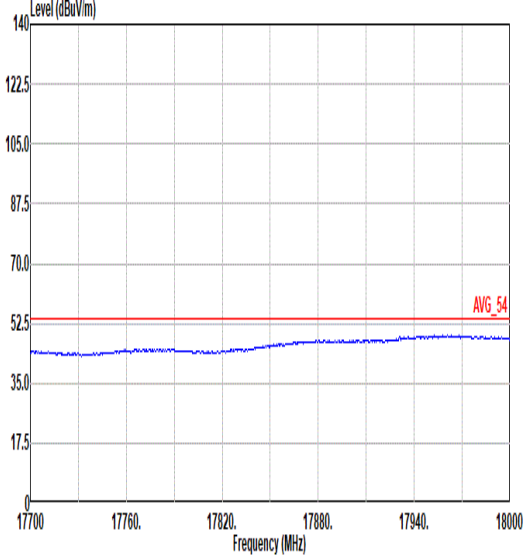


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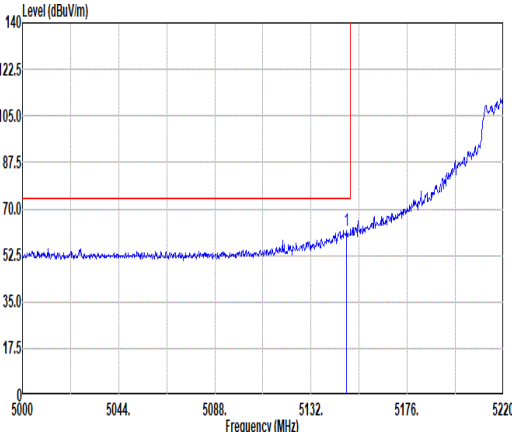
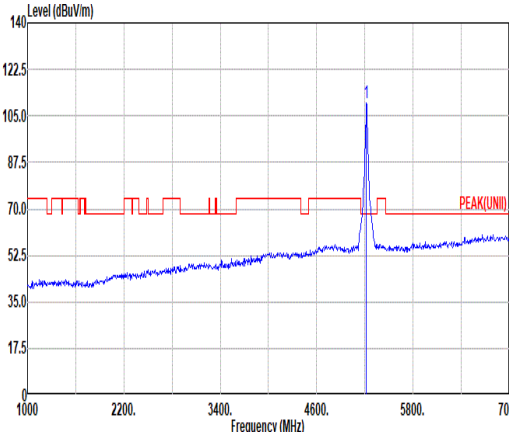
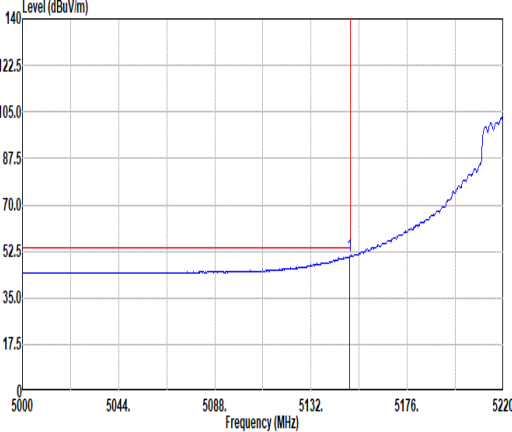
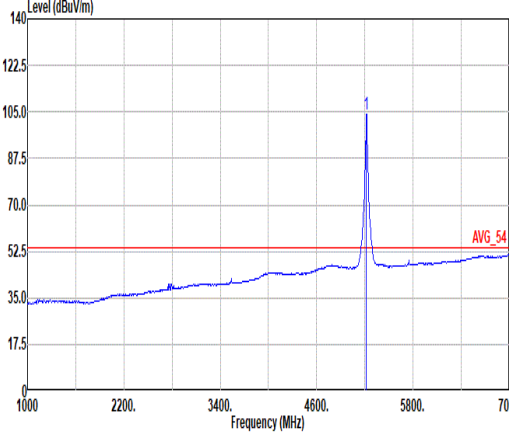


Mode	4																																																																													
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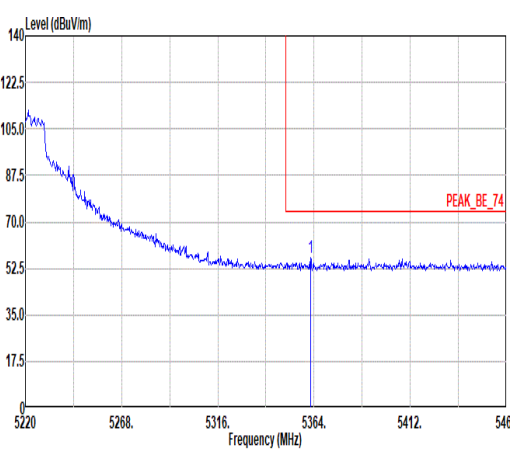
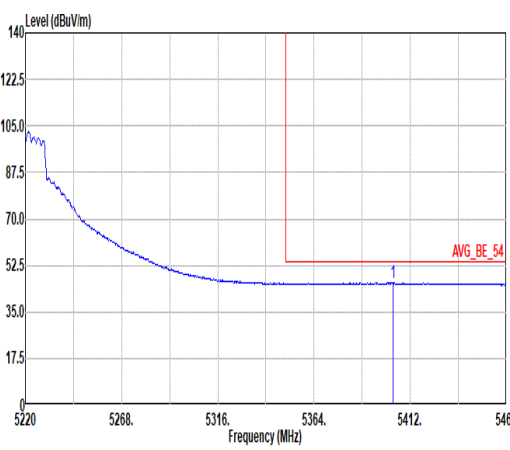


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ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

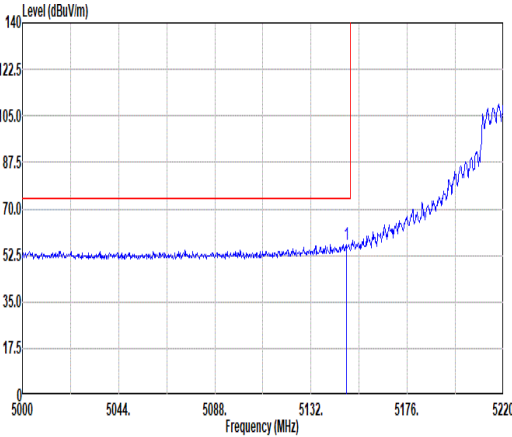
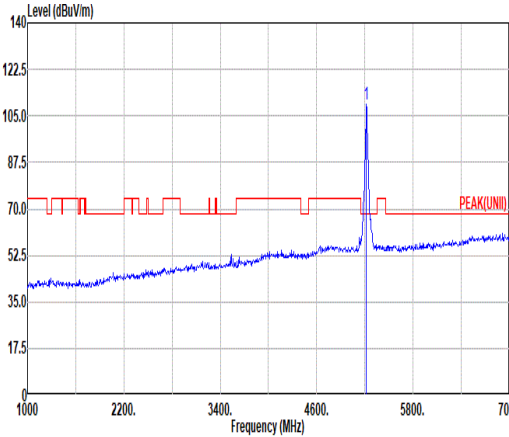
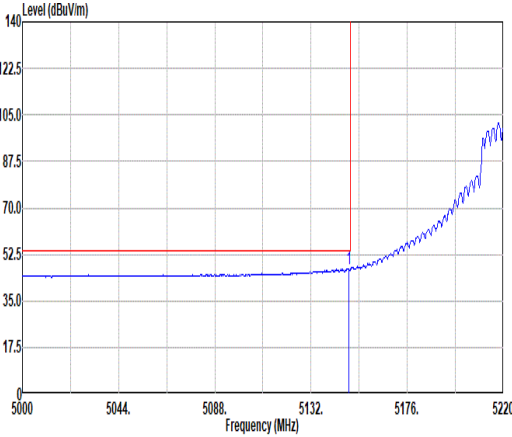
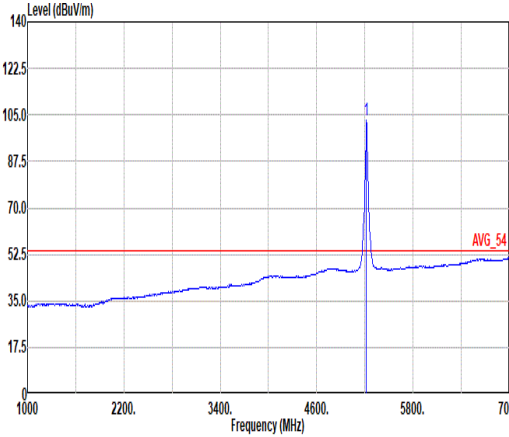


Mode	5																																																																																															
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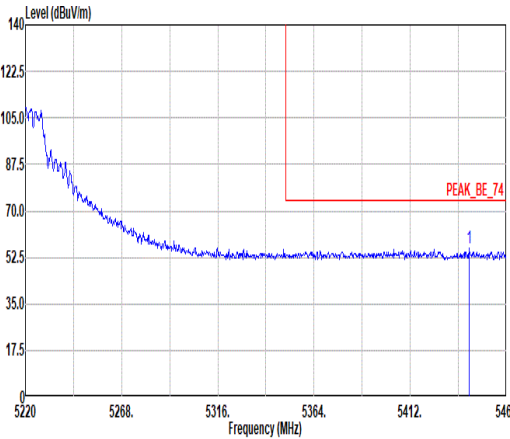
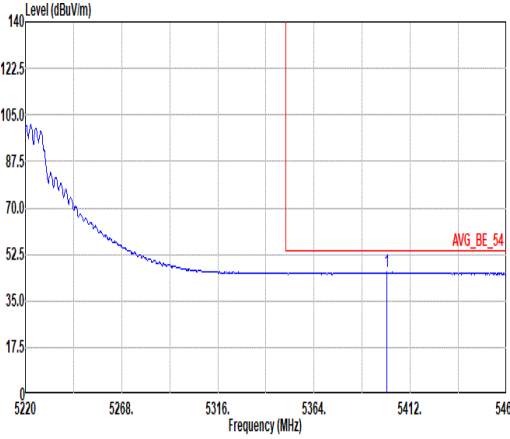


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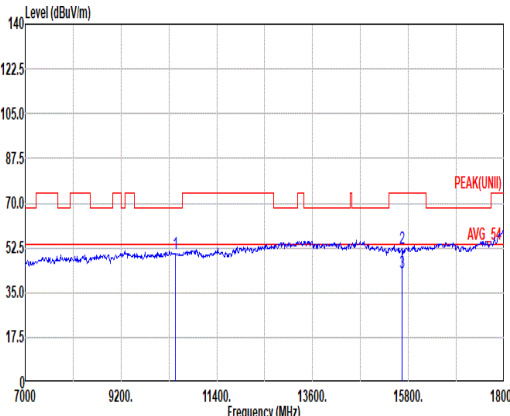
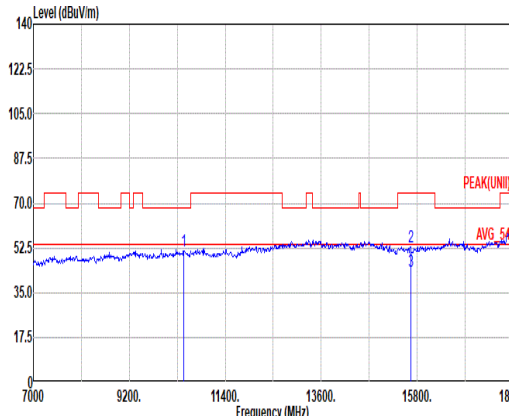


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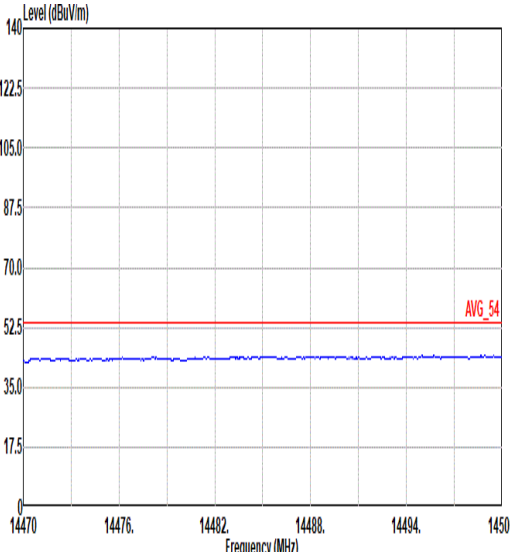
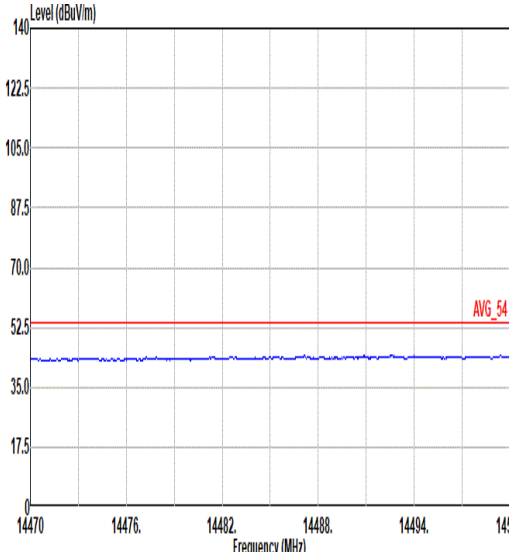
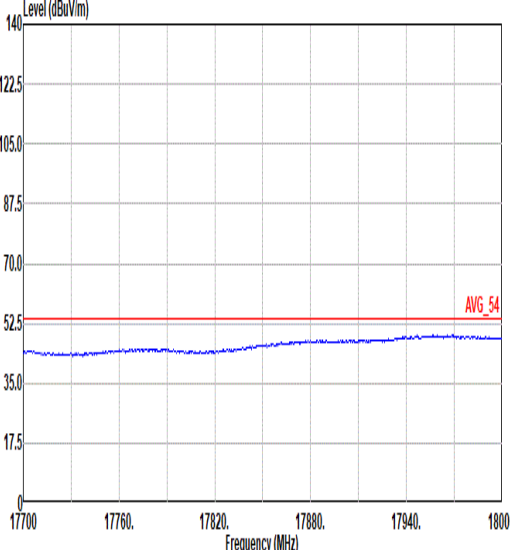
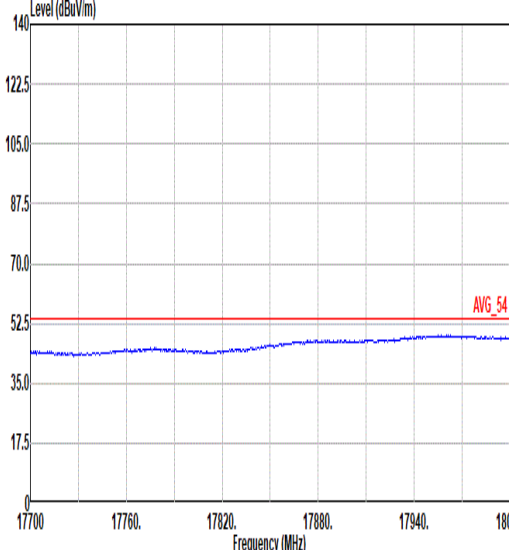


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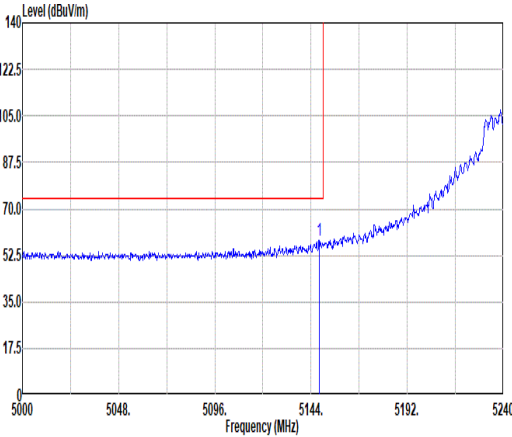
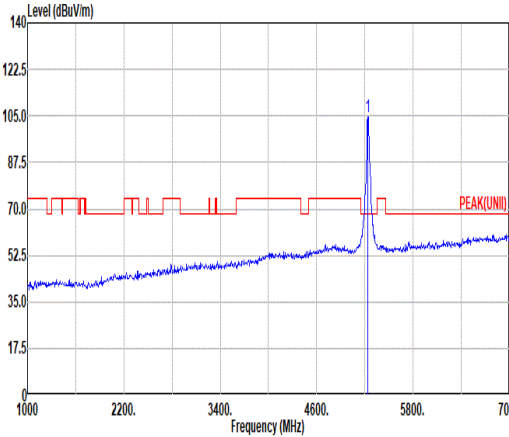
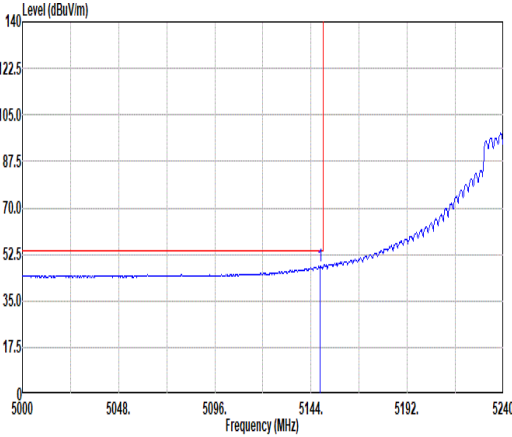
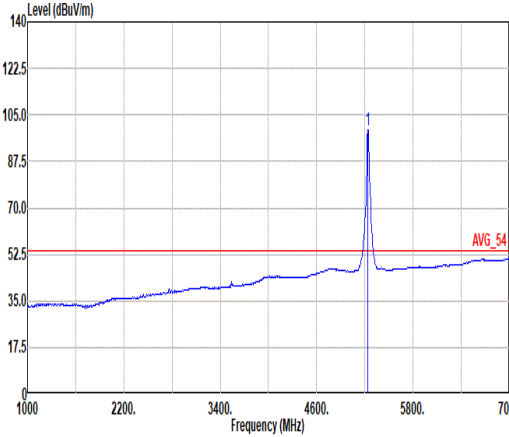


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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																								
1	10440.00	50.44	68.20	-17.76	61.81	38.72	17.18	67.52	0.25	--	--	PEAK																																																																																																																																																																							
2	15660.00	52.13	74.00	-21.87	58.99	38.10	22.00	67.34	0.38	183	68	PEAK																																																																																																																																																																							
3	15660.00	42.93	54.00	-11.07	49.79	38.10	22.00	67.34	0.38	183	68	Average																																																																																																																																																																							
		Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																							
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1	10440.00	51.38	68.20	-16.82	62.75	38.72	17.18	67.52	0.25	--	--	PEAK																																																																																																																																																																							
2	15660.00	52.62	74.00	-21.38	59.48	38.10	22.00	67.34	0.38	179	75	PEAK																																																																																																																																																																							
3	15660.00	43.42	54.00	-10.58	50.28	38.10	22.00	67.34	0.38	179	75	Average																																																																																																																																																																							



Mode	5	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH44_Full RU_5220MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

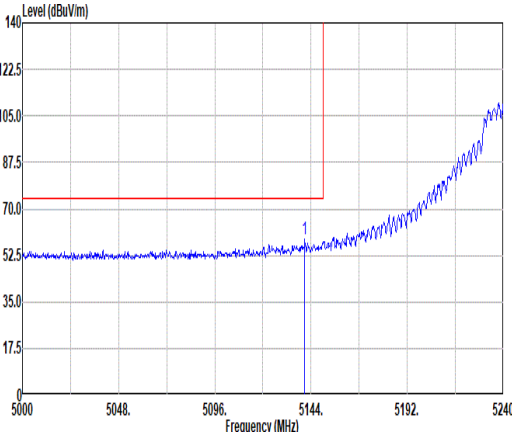
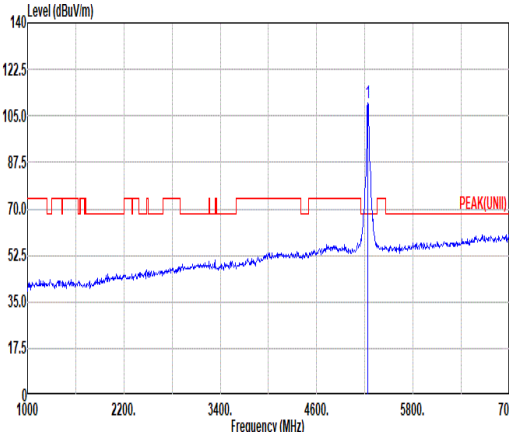
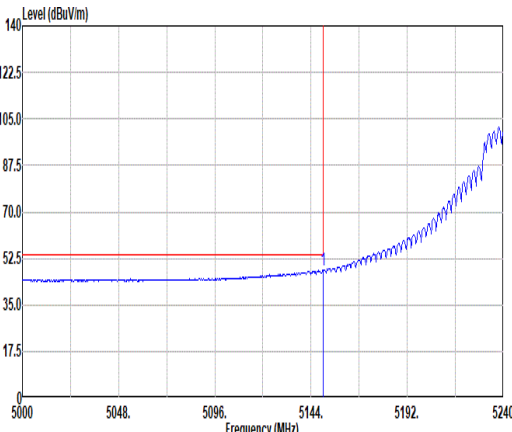
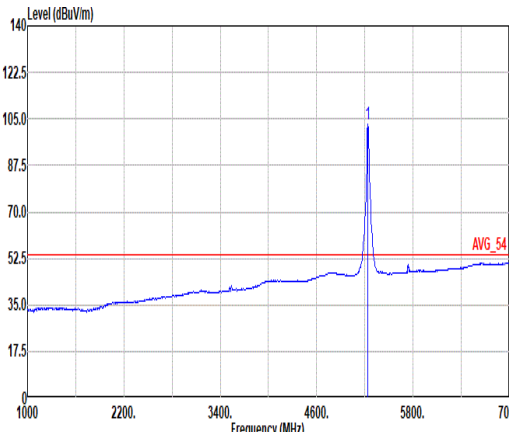


Mode	6																																																																																																	
	Band Edge - L																																																																																																	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz																																																																																																	
ANT	4+3																																																																																																	
Pol.	Horizontal						Fundamental																																																																																											
Peak																																																																																																		
	Site : 03CH12-HY Condition: PEAK_BE_74 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBN: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 colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5148.08</td><td>58.26</td><td>74.00</td><td>-15.74</td><td>47.39</td><td>33.20</td><td>10.72</td><td>33.05</td><td>0.00</td><td>179 92 PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor						MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5148.08	58.26	74.00	-15.74	47.39	33.20	10.72	33.05	0.00	179 92 PEAK	Site : 03CH12-HY Condition: PEAK(UNII) 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBN: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 colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5240.00</td><td>104.81</td><td>-----</td><td>-----</td><td>93.70</td><td>33.12</td><td>11.07</td><td>33.08</td><td>0.00</td><td>179 92 PEAK</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor						MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5240.00	104.81	-----	-----	93.70	33.12	11.07	33.08	0.00
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																									
Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor																																																																																												
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1	5148.56	47.98	54.00	-6.02	37.11	33.20	10.72	33.05	0.00	179 92 AVERAGE																																																																																								
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1	5240.00	99.47	-----	-----	88.39	33.13	11.03	33.08	0.00	179 92 AVERAGE																																																																																								

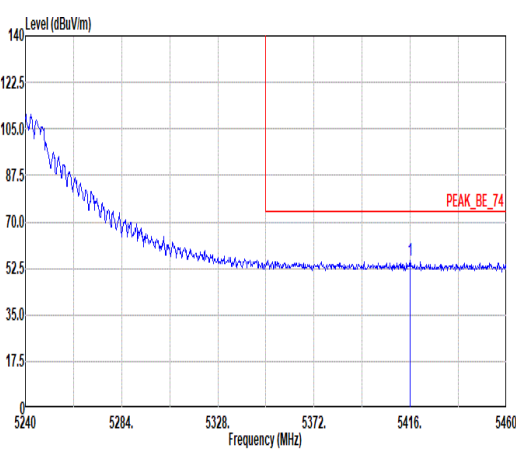
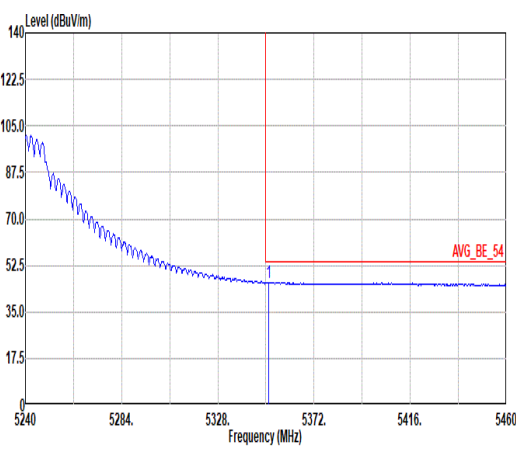


Mode	6																																													
	Band Edge - R																																													
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz																																													
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Peak	Site : 03CH12-HY Condition: PEAK_BE_74 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></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>5358.58</td><td>55.95</td><td>74.00</td><td>-18.05</td><td>44.36</td><td>32.98</td><td>11.73</td><td>33.12</td><td>0.00</td><td>179</td><td>92</td><td>PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5358.58	55.95	74.00	-18.05	44.36	32.98	11.73	33.12	0.00	179	92	PEAK	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																						
Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark																																					
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																				
1	5358.58	55.95	74.00	-18.05	44.36	32.98	11.73	33.12	0.00	179	92	PEAK																																		
Avg	Site : 03CH12-HY Condition: AVG_BE_54 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></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>5411.60</td><td>45.76</td><td>54.00</td><td>-8.24</td><td>34.08</td><td>32.92</td><td>11.90</td><td>33.14</td><td>0.00</td><td>179</td><td>92</td><td>AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5411.60	45.76	54.00	-8.24	34.08	32.92	11.90	33.14	0.00	179	92	AVERAGE	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																						
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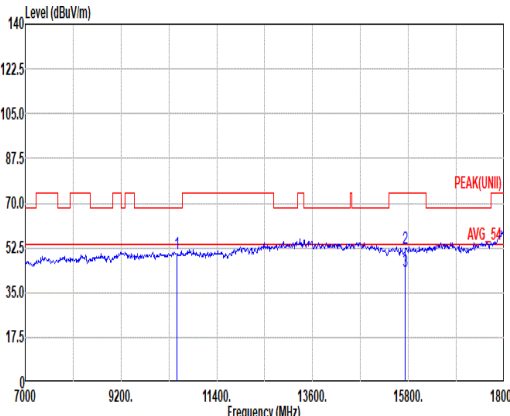
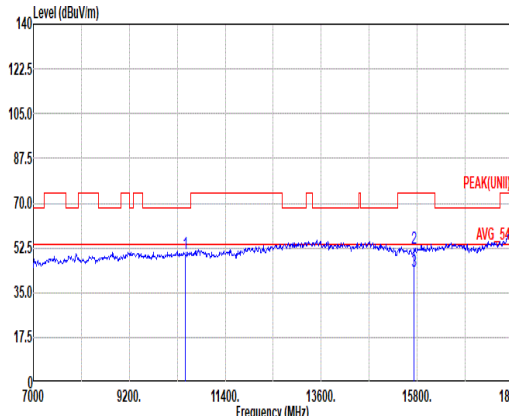


Mode	6																																																																																																
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ANT	4+3																																																																																																
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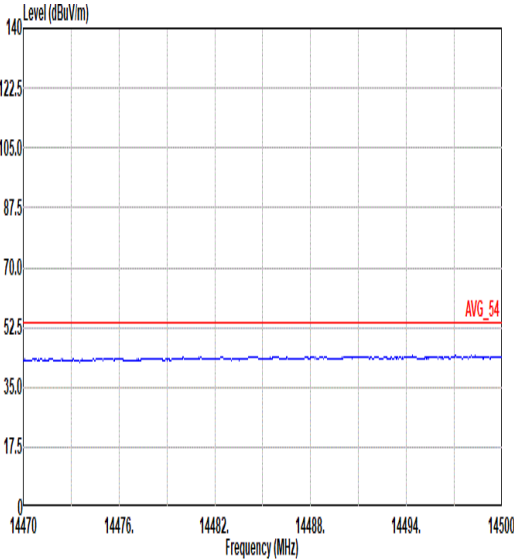
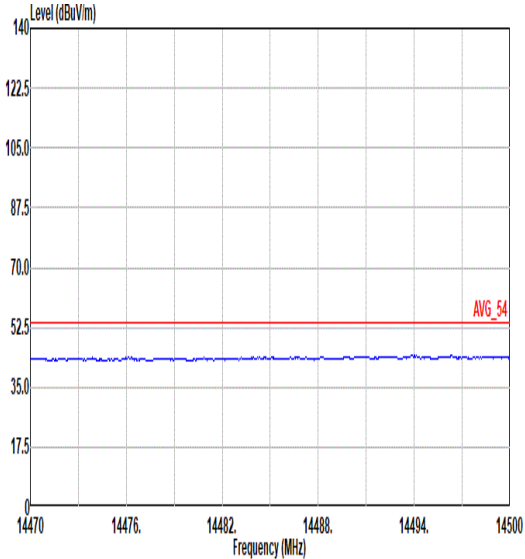
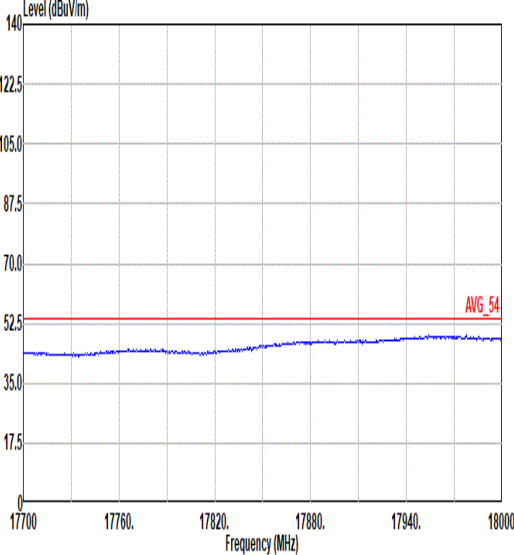
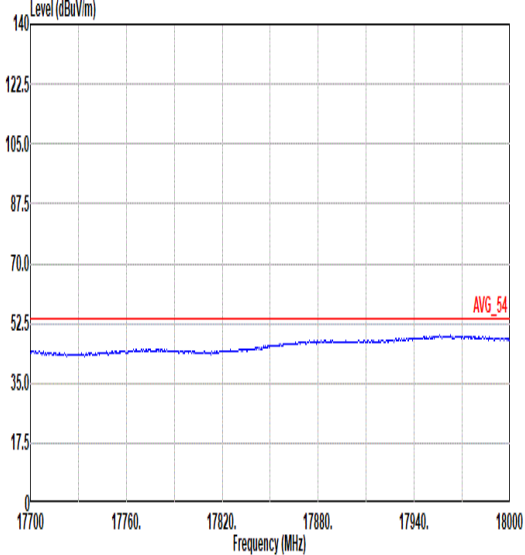


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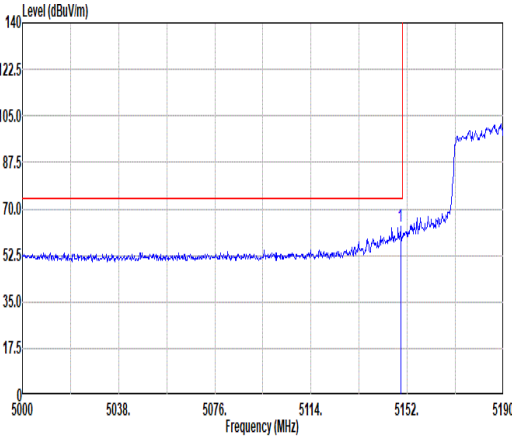
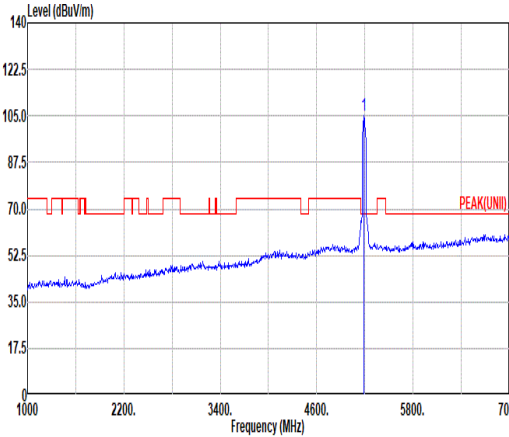
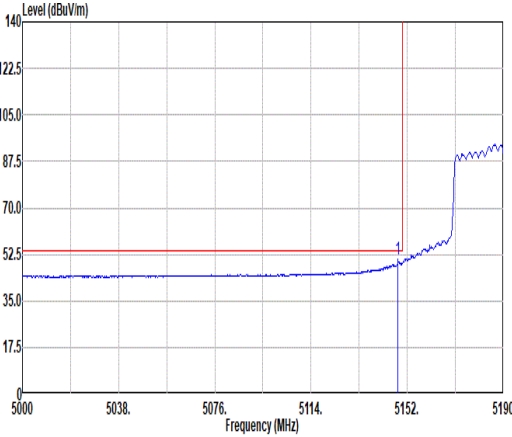
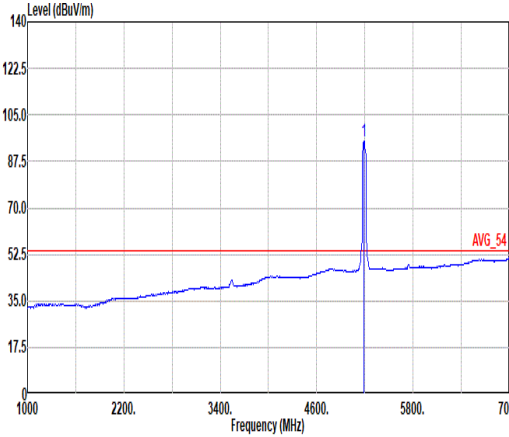


Mode	6																																																																												
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																				
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Mode	6	
	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE20_CH48_Full RU_5240MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
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17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

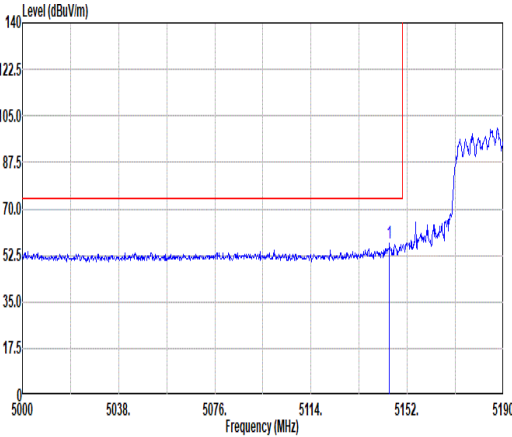
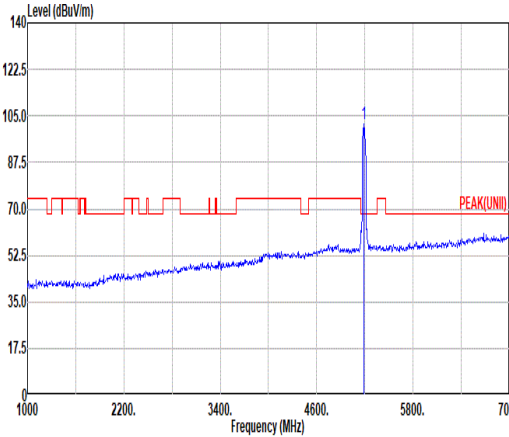
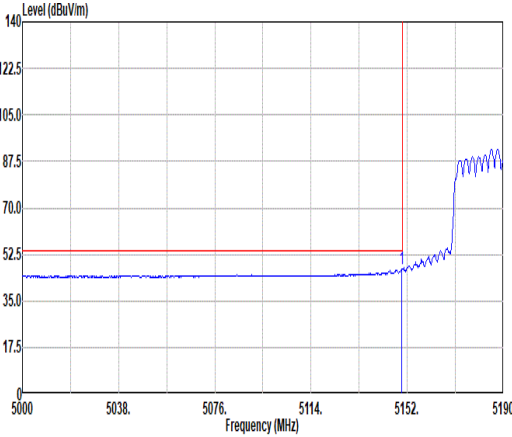
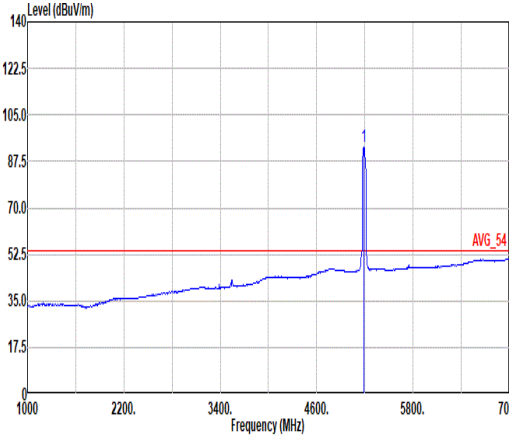


Mode	7																																																																																							
	Band Edge - L																																																																																							
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Pol.	Horizontal	Fundamental																																																																																						
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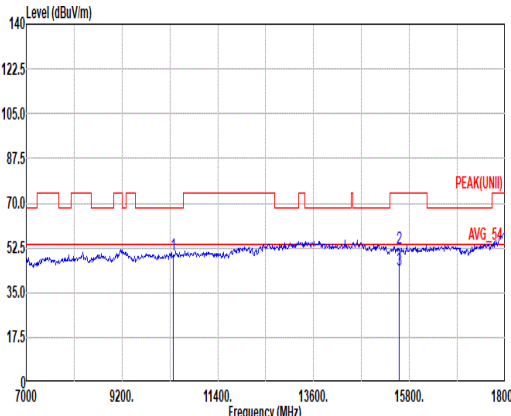
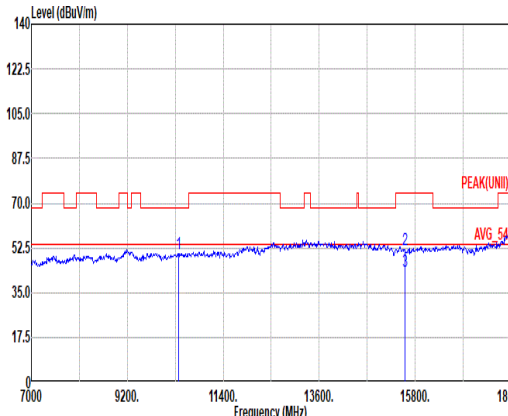


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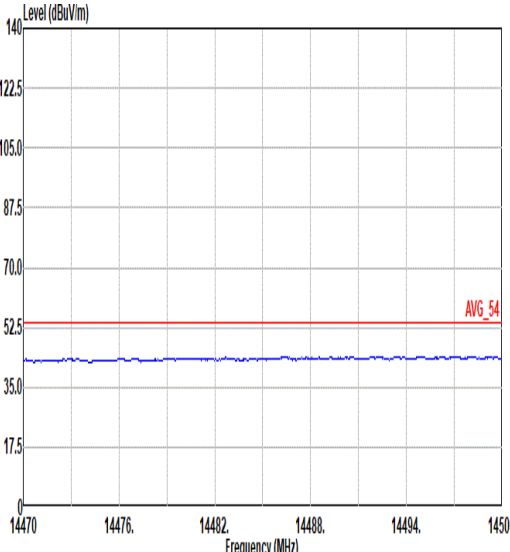
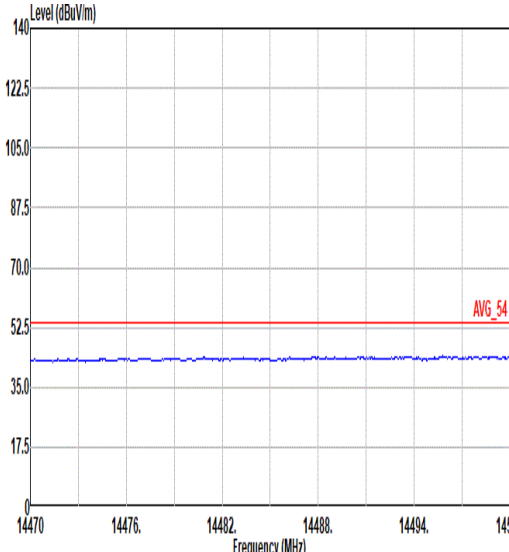
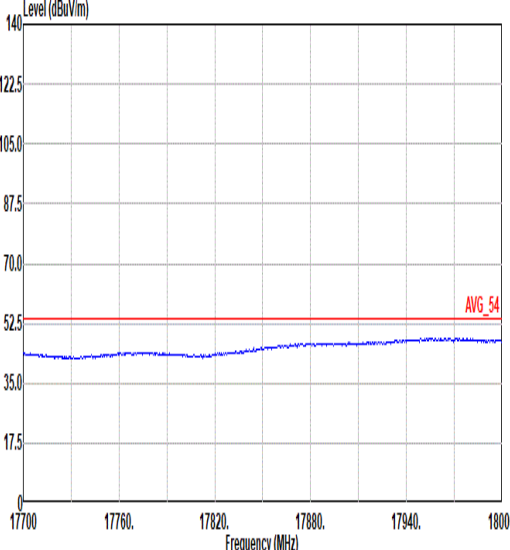
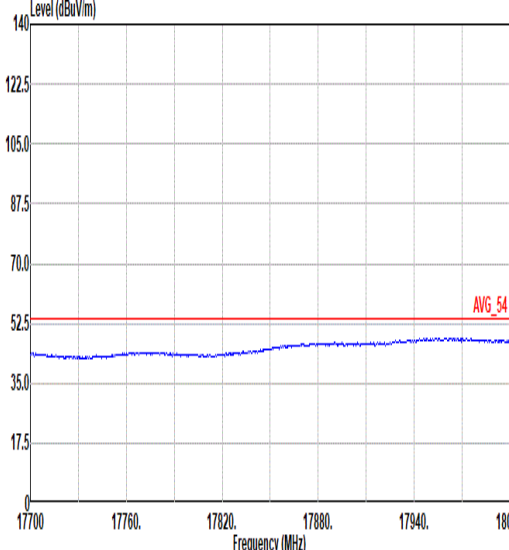


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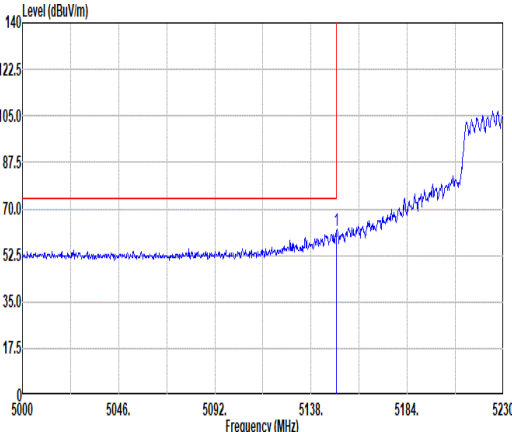
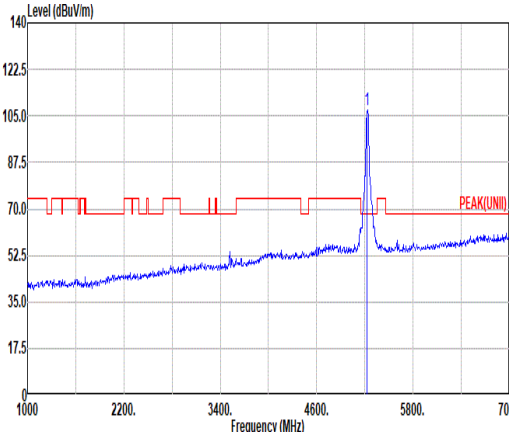
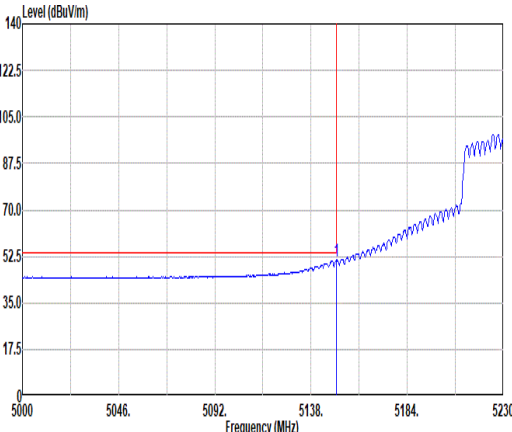
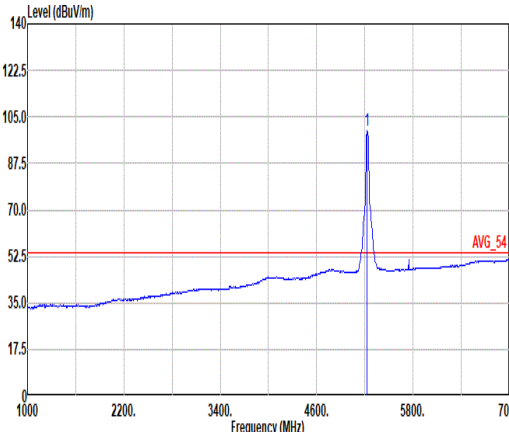


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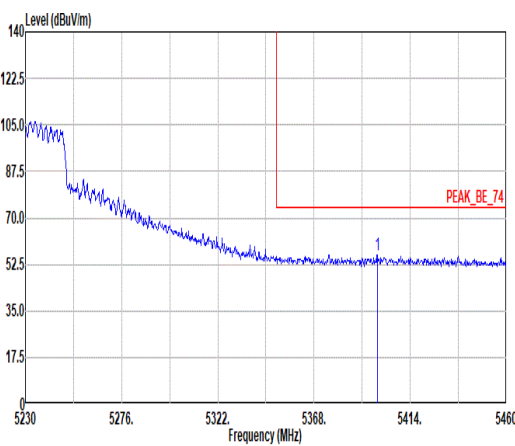
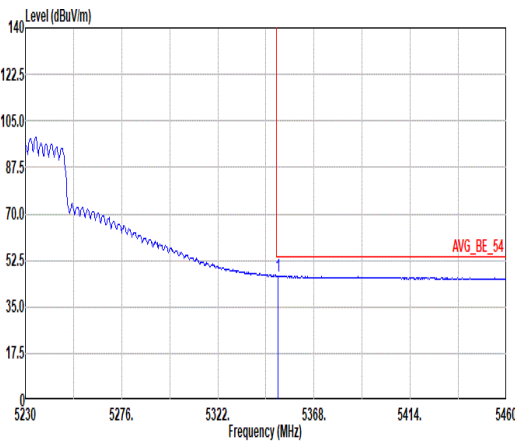


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ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
17.7G ~18G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL

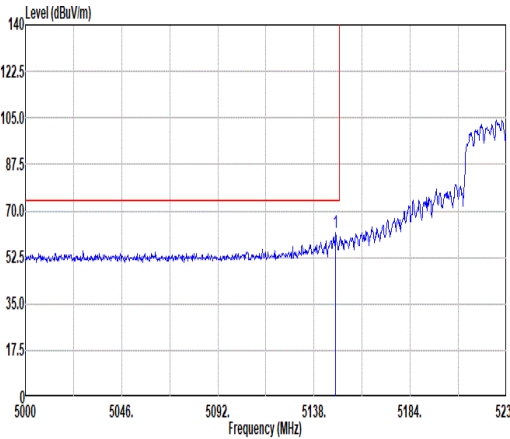
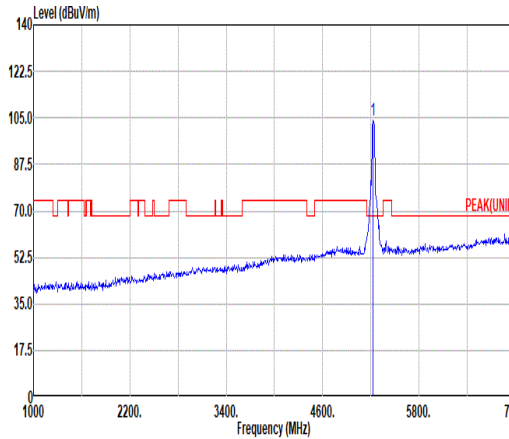
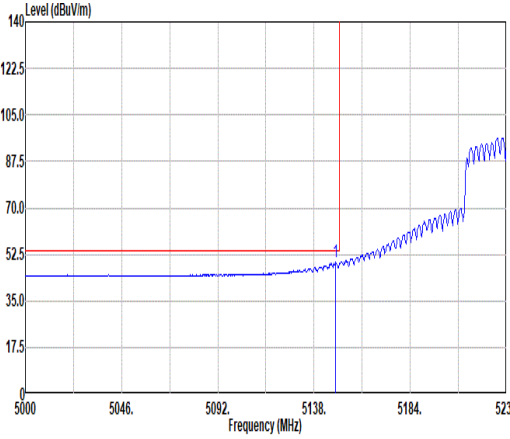
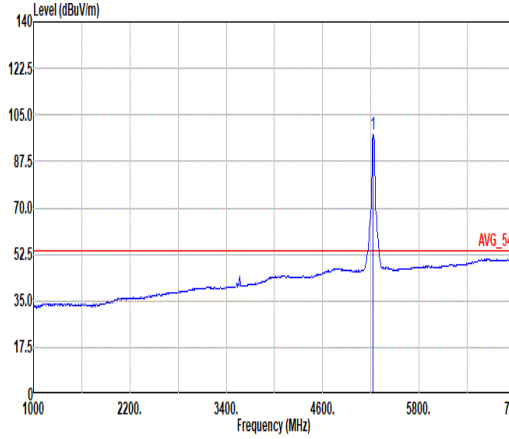


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ANT	4+3																																																																																																		
Pol.	Horizontal						Fundamental																																																																																												
Peak	 Site : 03CH12-HY Condition: PEAK_BE_74 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT: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"></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</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>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5149.96</td><td>61.66</td><td>74.00</td><td>-12.34</td><td>50.79</td><td>33.20</td><td>10.72</td><td>33.05</td><td>0.00</td><td>172 33 PEAK</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5149.96	61.66	74.00	-12.34	50.79	33.20	10.72	33.05	0.00	172 33 PEAK	 Site : 03CH12-HY Condition: PEAK(UNII) 3m BBHA 9120 D_91200-02038 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT: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"></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</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>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5230.00</td><td>107.01</td><td>-----</td><td>-----</td><td>95.93</td><td>33.13</td><td>11.03</td><td>33.08</td><td>0.00</td><td>172 33 PEAK</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5230.00	107.01	-----	-----	95.93	33.13	11.03	33.08	0.00	172 33 PEAK
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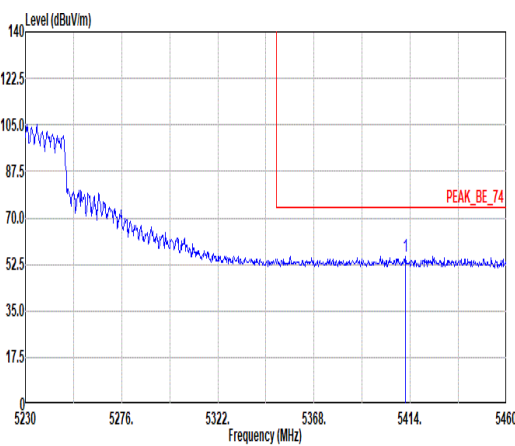
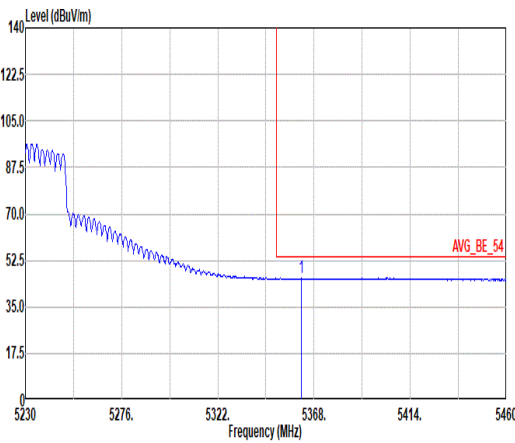


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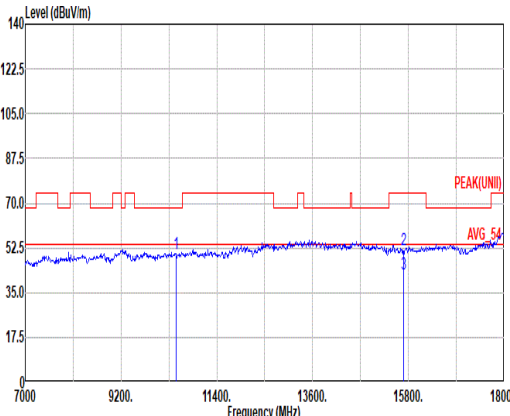
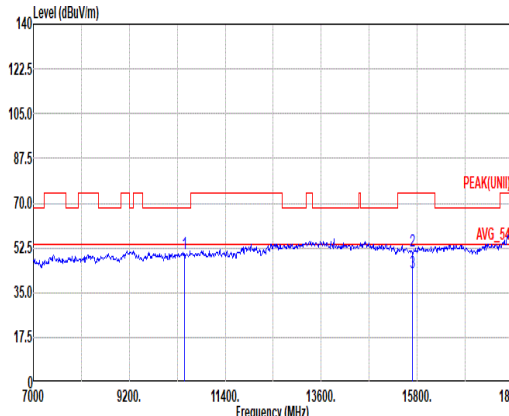


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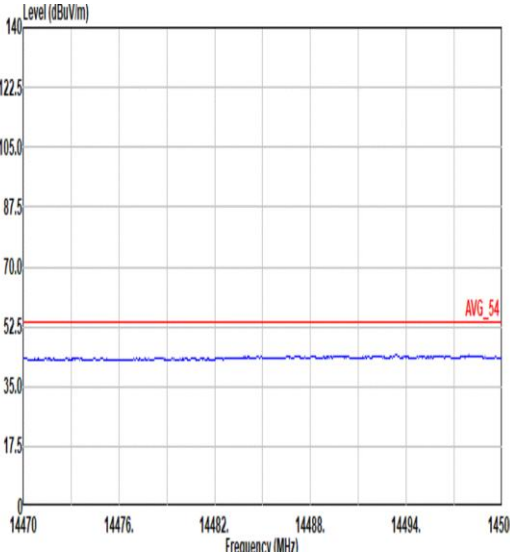
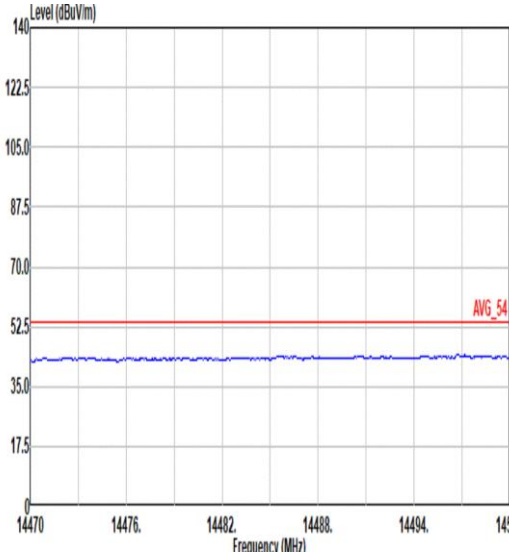
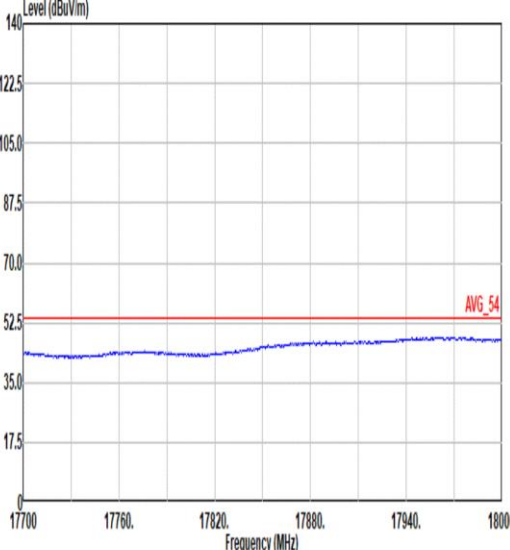
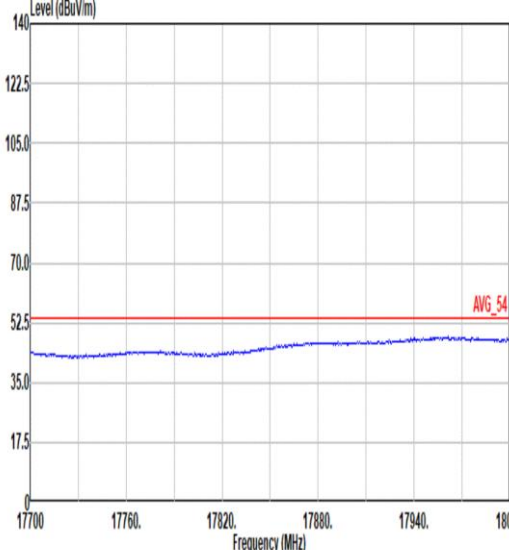


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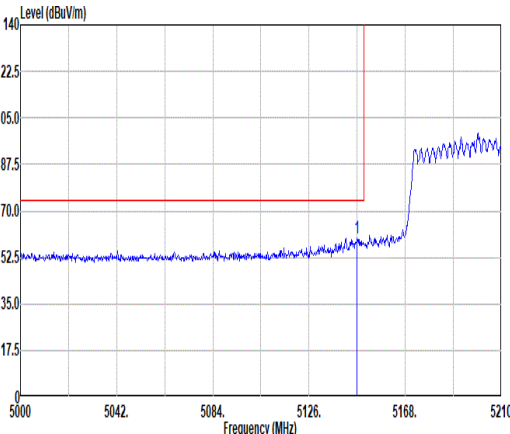
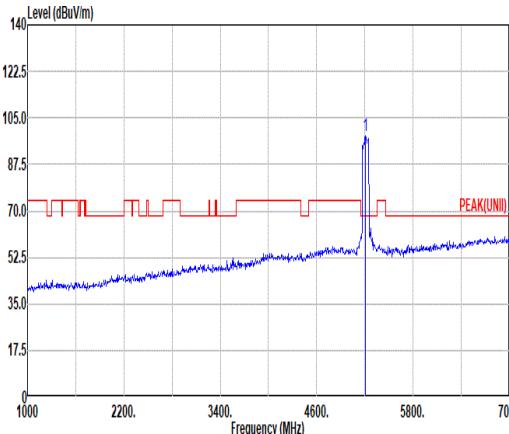
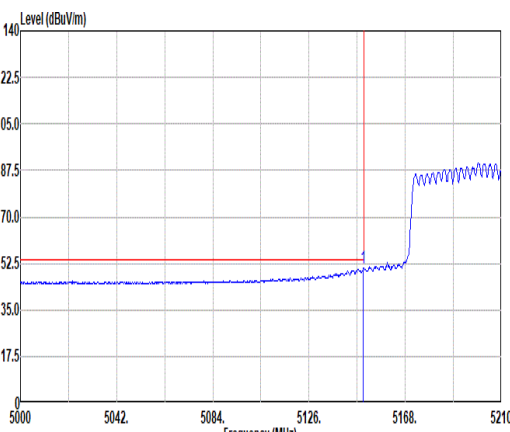
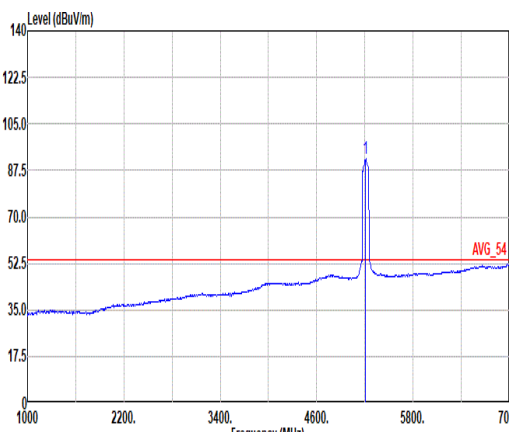


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	Harmonic	
	U-NII-1_5.15-5.25_802.11ax HE40_CH46_Full RU_5230MHz	
ANT	4+3	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 HORIZONTAL	 Site : 03CH12-HY Condition: AVG_54 3m 91280-02114-240711 VERTICAL
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