



FCC RF Test Report

APPLICANT : VINFAST TRADING AND PRODUCTION JOINT
STOCK COMPANY
EQUIPMENT : MULTIMEDIA HEAD UNIT
BRAND NAME : VINFAST
MODEL NAME : VF-EC32U
FCC ID : 2A6HEVF-EC32U
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Jul. 24, 2023 ~ Sep. 19, 2023

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR362705D	Rev. 01	Initial issue of report	Nov. 10, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.10 dB at 5145.200 MHz
-	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Not Applicable	-
3.5	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Remark: Not Applicable means after assessing, test items are not necessary to carry out.

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam

1.2 Manufacturer

VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY

Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MULTIMEDIA HEAD UNIT
Brand Name	VINFAST
Model Name	VF-EC32U
FCC ID	2A6HEVF-EC32U
S/N Code	Conducted/ Radiation: 230530D00011
HW Version	EEP70005507
SW Version	SOW70005570
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a vehicle device, only supports 12Vdc and does not use AC charger.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 9.52 dBm / 0.0090 W 802.11n HT20 : 9.26 dBm / 0.0084 W 802.11n HT40 : 6.80 dBm / 0.0048 W 802.11ac VHT20: 9.43 dBm / 0.0088 W 802.11ac VHT40: 6.86 dBm / 0.0049 W 802.11ac VHT80: 4.26 dBm / 0.0027 W <5745 MHz ~ 5825 MHz> 802.11a : 10.02 dBm / 0.0100 W 802.11n HT20 : 10.00 dBm / 0.0100 W 802.11n HT40 : 7.87 dBm / 0.0061 W 802.11ac VHT20: 10.07 dBm / 0.0102 W 802.11ac VHT40: 7.92 dBm / 0.0062 W 802.11ac VHT80: 6.92 dBm / 0.0049 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 16.98 MHz 802.11ac VHT20: 18.13 MHz 802.11ac VHT40: 36.46 MHz 802.11ac VHT80: 75.40 MHz <5745 MHz ~ 5825 MHz> 802.11a : 17.03 MHz 802.11ac VHT20: 18.08 MHz 802.11ac VHT40: 36.46 MHz 802.11ac VHT80: 75.64 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> FPCB Antenna with gain 6.35 dBi <5745 MHz ~ 5825 MHz> FPCB Antenna with gain 5.27 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH08-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC BT2.0 Ver3.0_For_CH INA 190111	3.0
2.	03CH08-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5240 MHz 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)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Remark: For Radiated Test Cases, The tests were performed with DC Power, Antenna, Speaker and Screen.

Ch. #		U-NII-1	U-NII-3
		802.11a	802.11a
L	Low	36	149
M	Middle	44	157
H	High	48	165

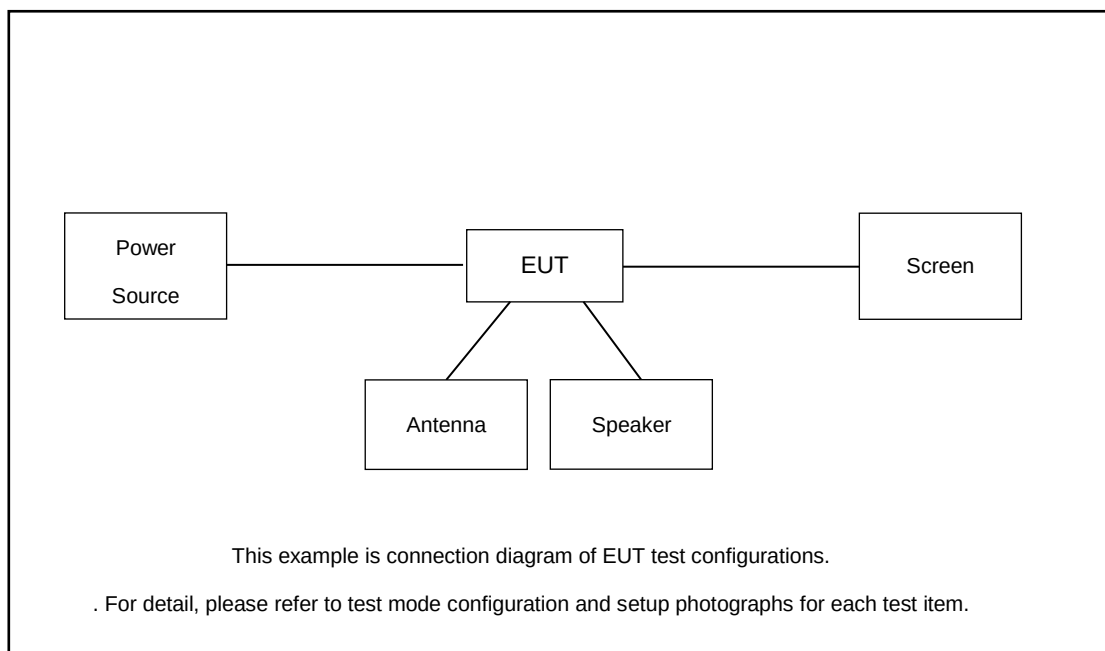
Ch. #		U-NII-1	U-NII-3
		802.11ac VHT20	802.11ac VHT20
L	Low	36	149
M	Middle	44	157
H	High	48	165

Ch. #		U-NII-1	U-NII-3
		802.11ac VHT40	802.11ac VHT40
L	Low	38	151
M	Middle	-	-
H	High	46	159

Ch. #		U-NII-1	U-NII-3
		802.11ac VHT80	802.11ac VHT80
L	Low	-	-
M	Middle	42	155
H	High	-	-

2.3 Connection Diagram of Test System

For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	DC Power	GWINSTEK	PLR36-10	N/A	N/A	Unshielded,1.8m
2.	Antenna	N/A	N/A	N/A	N/A	N/A
3.	Speaker	N/A	N/A	N/A	N/A	N/A
4.	Screen	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.2 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 7.2 \text{ (dB)}\end{aligned}$$

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

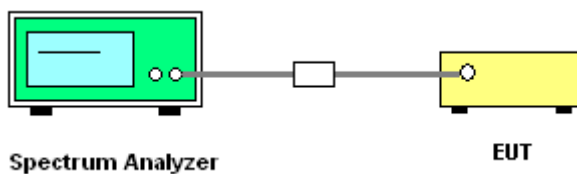
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

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

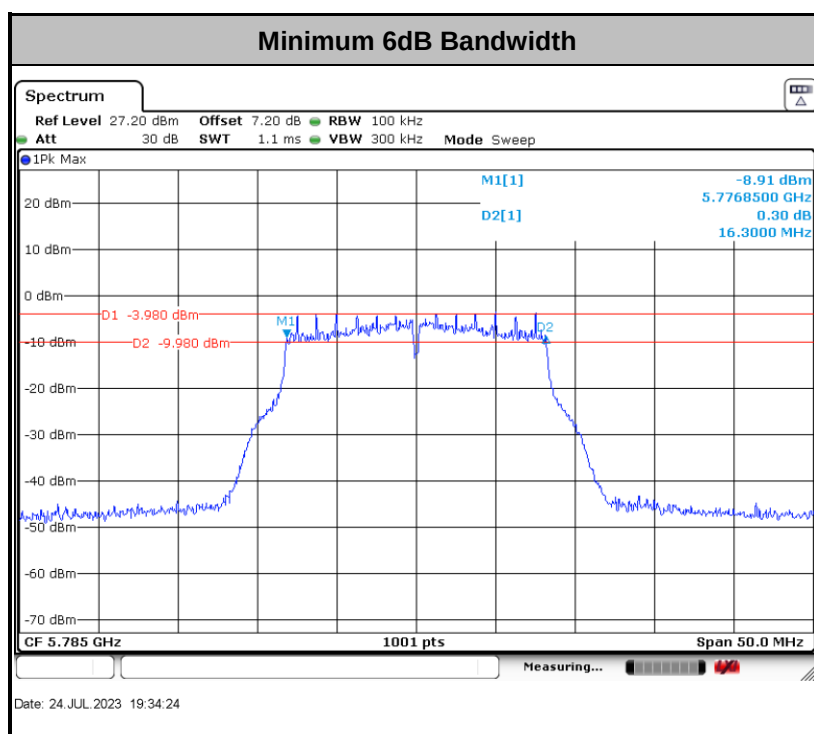
☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	- Set RBW = approximately 1% of the emission bandwidth. - Set the VBW > RBW. - Detector = Peak. - Trace mode = max hold - Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. - For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) $\geq 3 \times$ RBW. - Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	- Set RBW = 100kHz. - Set the VBW $\geq 3 \times$ RBW. - Detector = Peak. - Trace mode = max hold - Measure the maximum width of the emission that is 6 dB down from the peak of the emission. - Measure and record the results in the test report.

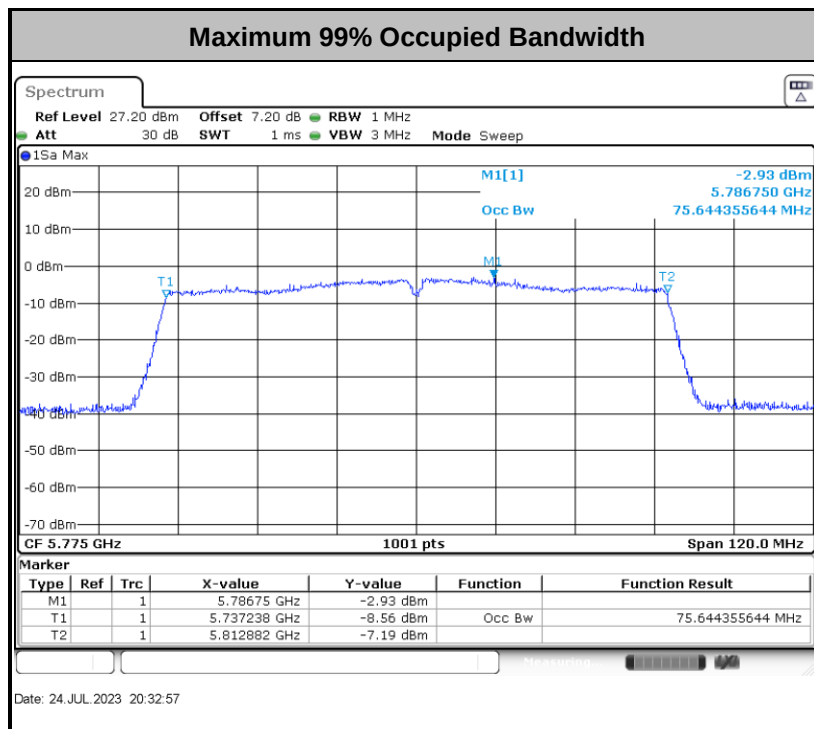
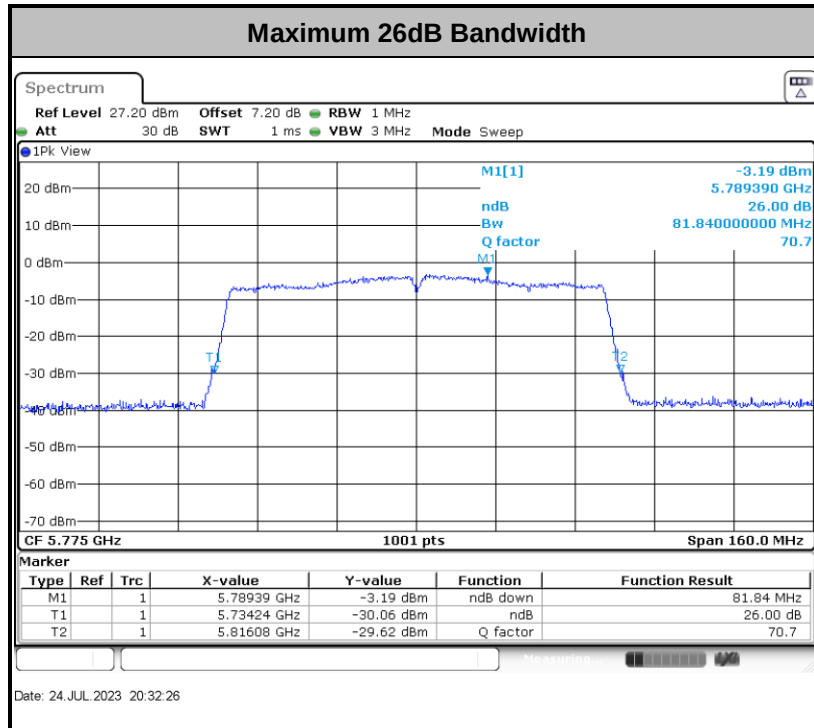
3.1.4 Test Setup



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

Please refer to Appendix A.





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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

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

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

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

The measuring equipment is listed in the section 4 of this test report.

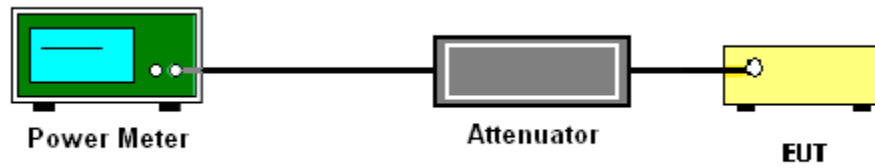
3.2.3 Test Procedures

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

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

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 mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

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

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

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

For devices operating in the bands 5.15 - 5.25 GHz

Method SA-2

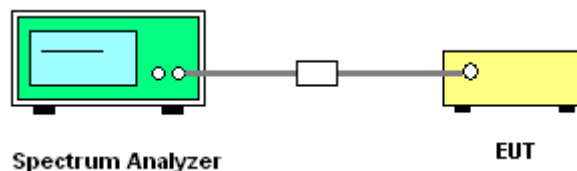
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- 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.

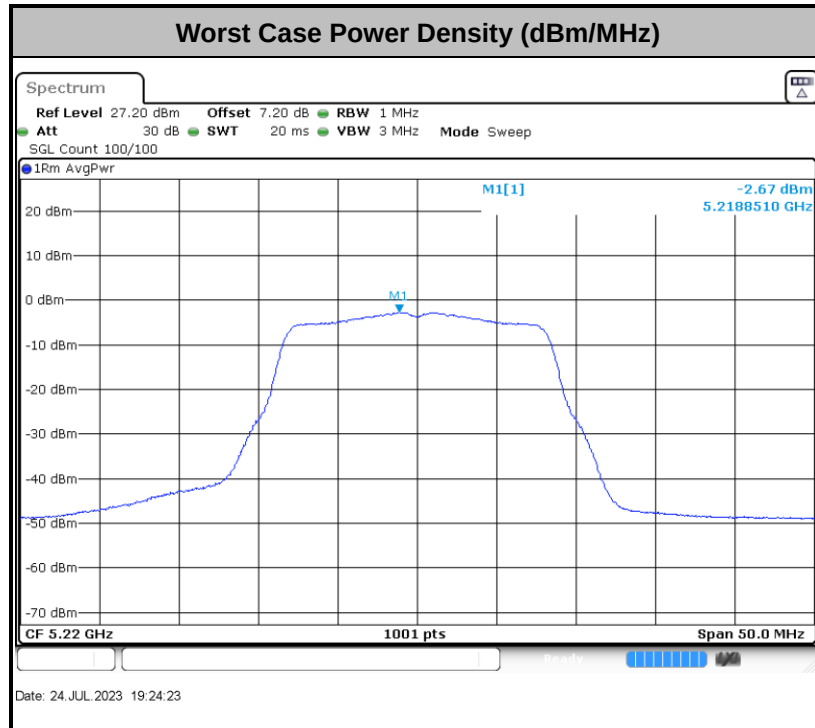
For devices operating in the band 5.725 - 5.85 GHz**# Method SA-2 #**

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

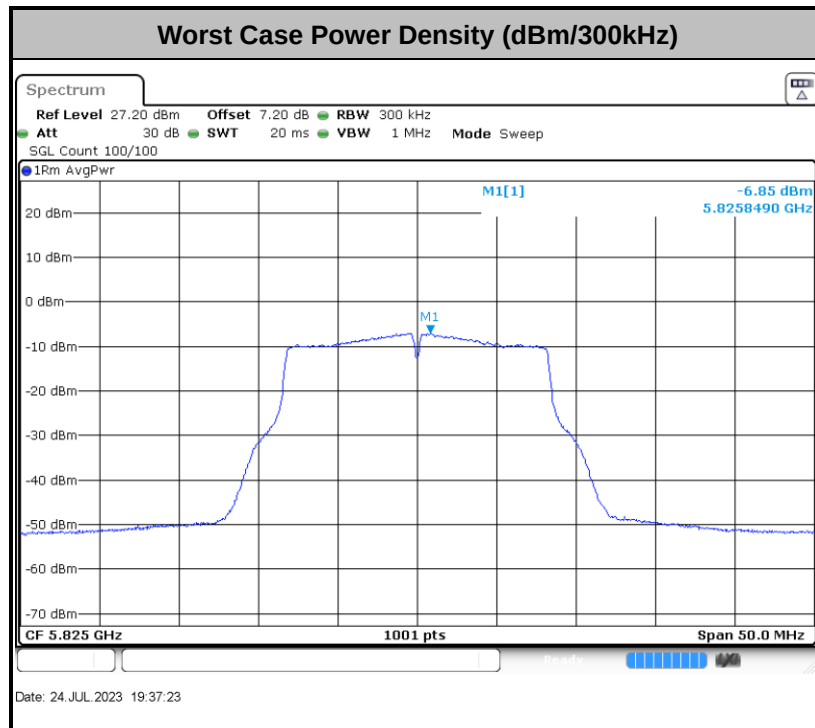
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
 - Set VBW ≥ 1 MHz.
 - Number of points in sweep ≥ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - If the SA can't set RBW=500KHz, then add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
 - 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 was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup**3.3.5 Test Result of Power Spectral Density**

Please refer to Appendix A.

For devices operating in the bands 5.15 - 5.25 GHz


Note: Average Power Density (dB) = Measured value+ Duty Factor

For devices operating in the band 5.725 - 5.85 GHz


Note: Average Power Density (dB) = Measured value+ Factor

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

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.
- (2) 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.
- (3) Unwanted spurious emissions fallen 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

(4) EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.77$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of 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 1000MHz

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

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

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $\text{VBW} \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.

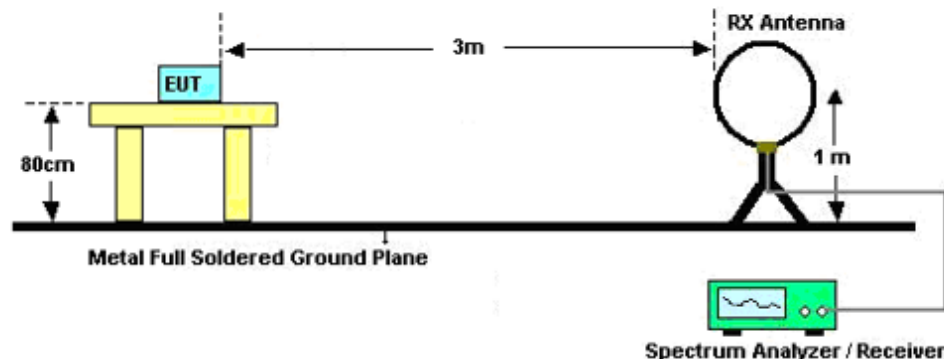
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the

top of a variable height antenna tower.

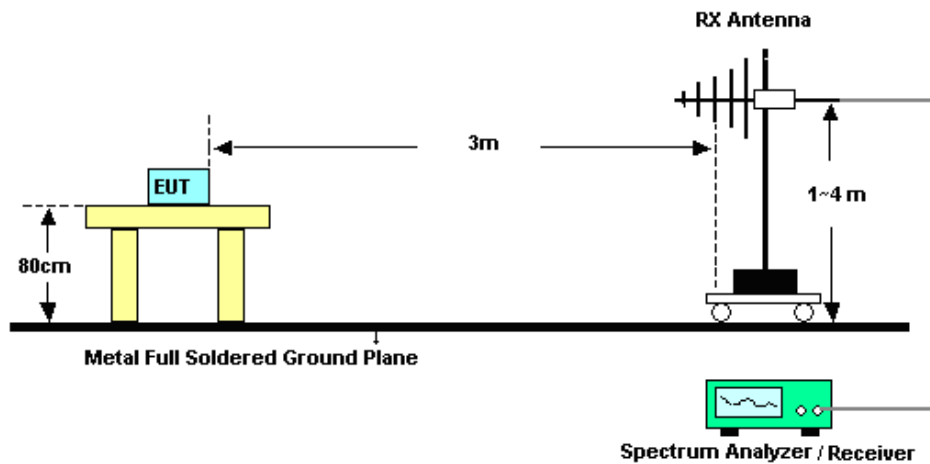
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst 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. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

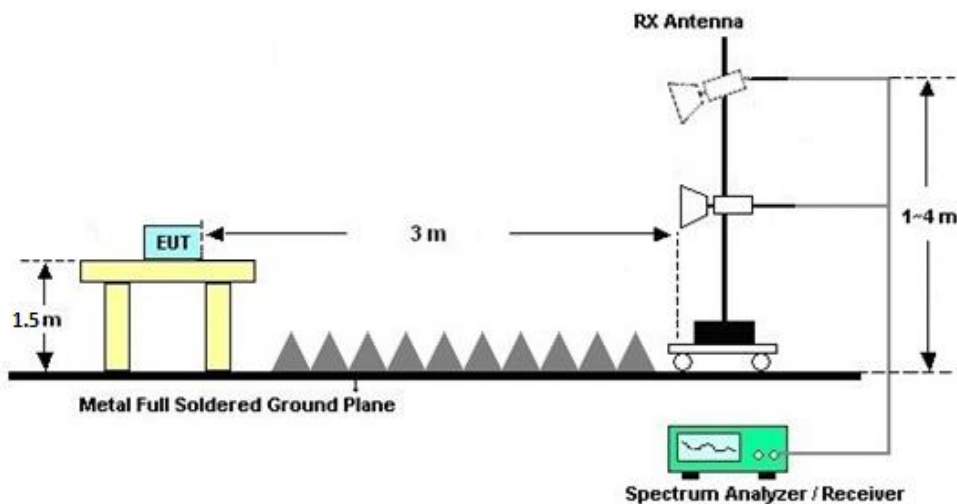
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.



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

Please refer to Appendix B.



3.5 Antenna Requirements

3.5.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jul. 24, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 04, 2023	Jul. 24, 2023	Jan. 03, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 04, 2023	Jul. 24, 2023	Jan. 03, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz; Max x 30dBm	Jan. 05, 2023	Sep. 19, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 12, 2022	Sep. 19, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Sep. 19, 2023	Oct. 15, 2023	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz-1GHz	Aug. 12, 2023	Sep. 19, 2023	Aug. 11, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 18, 2023	Sep. 19, 2023	Mar. 17, 2024	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Sep. 19, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2023	Sep. 19, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Sep. 19, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Sep. 19, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Sep. 19, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Sep. 19, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Sep. 19, 2023	NCR	Radiation (03CH08-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 0.46 dB
Conducted Emissions	± 2.26 dB
Occupied Channel Bandwidth	± 0.1 %
Conducted Power Spectral Density	± 0.88 dB

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.28dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.26dB
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Appendix A. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2023/7/24	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	36	5180	16.98	21.33	22.30		
11a	6Mbps	1	44	5220	16.98	21.43	22.30		
11a	6Mbps	1	48	5240	16.98	21.33	22.30		
VHT20	MCS0	1	36	5180	18.13	21.53	22.58		
VHT20	MCS0	1	44	5220	18.03	21.63	22.56		
VHT20	MCS0	1	48	5240	18.03	21.78	22.56		
VHT40	MCS0	1	38	5190	36.46	39.74	23.01		
VHT40	MCS0	1	46	5230	36.26	39.83	23.01		
VHT80	MCS0	1	42	5210	75.40	81.04	23.01		

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail	Power Setting
					Ant 1	Ant 1	Ant 1			Ant 1
11a	6Mbps	1	36	5180	7.92	23.65	6.35		Pass	10.5
11a	6Mbps	1	44	5220	9.38	23.65	6.35		Pass	11
11a	6Mbps	1	48	5240	9.52	23.65	6.35		Pass	11
HT20	MCS0	1	36	5180	9.10	23.65	6.35		Pass	11
HT20	MCS0	1	44	5220	9.21	23.65	6.35		Pass	11
HT20	MCS0	1	48	5240	9.26	23.65	6.35		Pass	11
HT40	MCS0	1	38	5190	5.74	23.65	6.35		Pass	8.5
HT40	MCS0	1	46	5230	6.80	23.65	6.35		Pass	9
VHT20	MCS0	1	36	5180	9.34	23.65	6.35		Pass	11
VHT20	MCS0	1	44	5220	9.41	23.65	6.35		Pass	11
VHT20	MCS0	1	48	5240	9.43	23.65	6.35		Pass	11
VHT40	MCS0	1	38	5190	5.10	23.65	6.35		Pass	8.5
VHT40	MCS0	1	46	5230	6.86	23.65	6.35		Pass	9
VHT80	MCS0	1	42	5210	4.26	23.65	6.35		Pass	7.5

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	36	5180	0.30	-3.11	10.65	6.35		Pass
11a	6Mbps	1	44	5220	0.30	-2.37	10.65	6.35		Pass
11a	6Mbps	1	48	5240	0.30	-2.75	10.65	6.35		Pass
VHT20	MCS0	1	36	5180	0.32	-2.47	10.65	6.35		Pass
VHT20	MCS0	1	44	5220	0.32	-2.72	10.65	6.35		Pass
VHT20	MCS0	1	48	5240	0.32	-3.06	10.65	6.35		Pass
VHT40	MCS0	1	38	5190	0.62	-7.98	10.65	6.35		Pass
VHT40	MCS0	1	46	5230	0.62	-7.87	10.65	6.35		Pass
VHT80	MCS0	1	42	5210	1.19	-11.71	10.65	6.35		Pass

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

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.98	-	21.33	-	16.35	-	0.5	Pass
11a	6Mbps	1	157	5785	17.03	-	21.23	-	16.30	-	0.5	Pass
11a	6Mbps	1	165	5825	16.93	-	21.43	-	16.30	-	0.5	Pass
VHT20	MCS0	1	149	5745	18.03	-	21.58	-	17.55	-	0.5	Pass
VHT20	MCS0	1	157	5785	18.08	-	21.73	-	17.55	-	0.5	Pass
VHT20	MCS0	1	165	5825	18.03	-	21.43	-	17.55	-	0.5	Pass
VHT40	MCS0	1	151	5755	36.46	-	40.10	-	35.82	-	0.5	Pass
VHT40	MCS0	1	159	5795	36.36	-	39.92	-	35.46	-	0.5	Pass
VHT80	MCS0	1	155	5775	75.64	-	81.84	-	75.52	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power with duty factor (dBm)		FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail	Power Setting
					Ant 1	SUM	Ant 1	Ant 1		Ant 1
11a	6Mbps	1	149	5745	9.93		30.00	5.27	Pass	11
11a	6Mbps	1	157	5785	9.98		30.00	5.27	Pass	11
11a	6Mbps	1	165	5825	10.02		30.00	5.27	Pass	11
HT20	MCS0	1	149	5745	9.69		30.00	5.27	Pass	11
HT20	MCS0	1	157	5785	9.81		30.00	5.27	Pass	11
HT20	MCS0	1	165	5825	10.00		30.00	5.27	Pass	11
HT40	MCS0	1	151	5755	7.55		30.00	5.27	Pass	9
HT40	MCS0	1	159	5795	7.87		30.00	5.27	Pass	9
VHT20	MCS0	1	149	5745	9.76		30.00	5.27	Pass	11
VHT20	MCS0	1	157	5785	9.85		30.00	5.27	Pass	11
VHT20	MCS0	1	165	5825	10.07		30.00	5.27	Pass	11
VHT40	MCS0	1	151	5755	7.57		30.00	5.27	Pass	9
VHT40	MCS0	1	159	5795	7.92		30.00	5.27	Pass	9
VHT80	MCS0	1	155	5775	6.92		30.00	5.27	Pass	8

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.30		2.22	-	-5.06	-		30.00	-	5.27	-	Pass
11a	6Mbps	1	157	5785	0.30		2.22	-	-5.23	-		30.00	-	5.27	-	Pass
11a	6Mbps	1	165	5825	0.30		2.22	-	-4.33	-		30.00	-	5.27	-	Pass
VHT20	MCS0	1	149	5745	0.32		2.22	-	-5.13	-		30.00	-	5.27	-	Pass
VHT20	MCS0	1	157	5785	0.32		2.22	-	-5.48	-		30.00	-	5.27	-	Pass
VHT20	MCS0	1	165	5825	0.32		2.22	-	-4.81	-		30.00	-	5.27	-	Pass
VHT40	MCS0	1	151	5755	0.61		2.22	-	-10.31	-		30.00	-	5.27	-	Pass
VHT40	MCS0	1	159	5795	0.61		2.22	-	-10.14	-		30.00	-	5.27	-	Pass
VHT80	MCS0	1	155	5775	1.19		2.22	-	-14.23	-		30.00	-	5.27	-	Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Koi Ji	Relative Humidity :	41~42 %
		Temperature :	22~23℃

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	SISO	802.11a	36	5180	6Mbps	-	-
Mode 2	U-NII-1	5.15-5.25	SISO	802.11a	44	5220	6Mbps	-	-
Mode 3	U-NII-1	5.15-5.25	SISO	802.11a	48	5240	6Mbps	-	-
Mode 4	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	36	5180	MCS0	-	-
Mode 5	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	44	5220	MCS0	-	-
Mode 6	U-NII-1	5.15-5.25	SISO	802.11ac VHT20	48	5240	MCS0	-	-
Mode 7	U-NII-1	5.15-5.25	SISO	802.11ac VHT40	38	5190	MCS0	-	-
Mode 8	U-NII-1	5.15-5.25	SISO	802.11ac VHT40	46	5230	MCS0	-	-
Mode 9	U-NII-1	5.15-5.25	SISO	802.11ac VHT80	42	5210	MCS0	-	-
Mode 10	U-NII-3	5.725-5.85	SISO	802.11a	149	5745	6Mbps	-	-
Mode 11	U-NII-3	5.725-5.85	SISO	802.11a	157	5785	6Mbps	-	-
Mode 12	U-NII-3	5.725-5.85	SISO	802.11a	165	5825	6Mbps	-	-
Mode 13	U-NII-3	5.725-5.85	SISO	802.11ac VHT20	149	5745	MCS0	-	-
Mode 14	U-NII-3	5.725-5.85	SISO	802.11ac VHT20	157	5785	MCS0	-	-
Mode 15	U-NII-3	5.725-5.85	SISO	802.11ac VHT20	165	5825	MCS0	-	-
Mode 16	U-NII-3	5.725-5.85	SISO	802.11ac VHT40	151	5755	MCS0	-	-
Mode 17	U-NII-3	5.725-5.85	SISO	802.11ac VHT40	159	5795	MCS0	-	-
Mode 18	U-NII-3	5.725-5.85	SISO	802.11ac VHT80	155	5775	MCS0	-	-



Summary of each worse mode

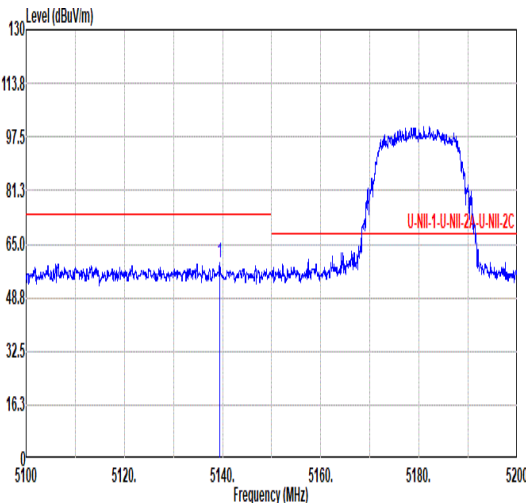
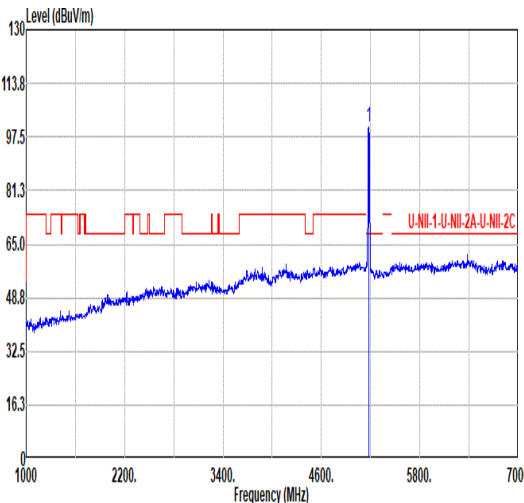
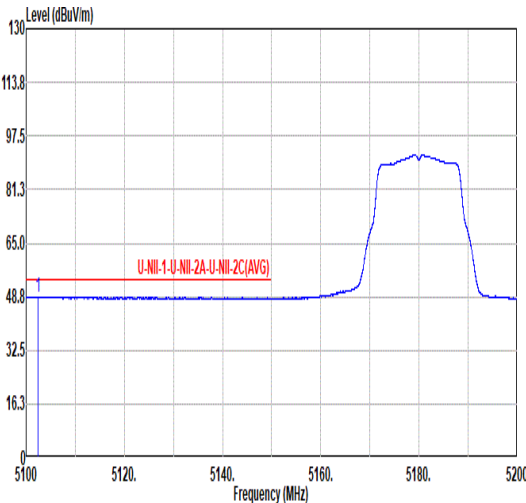
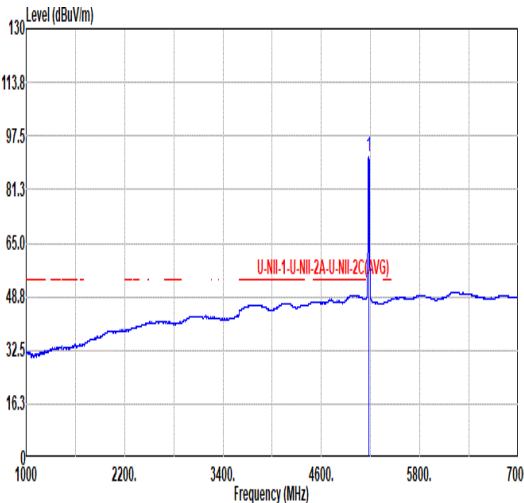
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5148.85	50.88	54.00	-3.12	V	AVERAGE	Pass	Band Edge
	802.11a	36	10360.00	44.97	68.20	-23.23	V	PEAK	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
	802.11a	44	10440.00	45.83	68.20	-22.37	H	PEAK	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
	802.11a	48	10480.00	44.58	68.20	-23.62	V	PEAK	Pass	Harmonic
4	802.11ac VHT20	36	5145.45	50.63	54.00	-3.37	V	AVERAGE	Pass	Band Edge
	802.11ac VHT20	36	10360.00	45.23	68.20	-22.97	H	PEAK	Pass	Harmonic
5	802.11ac VHT20	44	-	-	-	-	-	-	-	Band Edge
	802.11ac VHT20	44	10440.00	44.98	68.20	-23.22	H	PEAK	Pass	Harmonic
6	802.11ac VHT20	48	-	-	-	-	-	-	-	Band Edge
	802.11ac VHT20	48	10480.00	45.32	68.20	-22.88	H	PEAK	Pass	Harmonic
7	802.11ac VHT40	38	5145.85	50.79	54.00	-3.21	V	AVERAGE	Pass	Band Edge
	802.11ac VHT40	38	10380.00	45.09	68.20	-23.11	H	PEAK	Pass	Harmonic
8	802.11ac VHT40	46	5149.69	49.71	54.00	-4.29	V	AVERAGE	Pass	Band Edge
	802.11ac VHT40	46	10460.00	44.94	68.20	-23.26	H	PEAK	Pass	Harmonic
9	802.11ac VHT80	42	5145.20	50.90	54.00	-3.10	V	AVERAGE	Pass	Band Edge
	802.11ac VHT80	42	10420.00	43.82	68.20	-24.38	V	PEAK	Pass	Harmonic



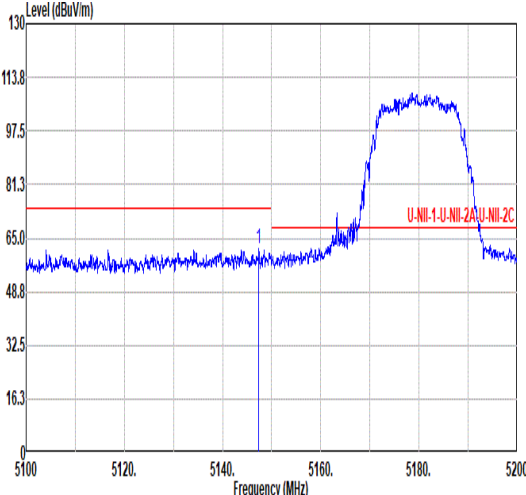
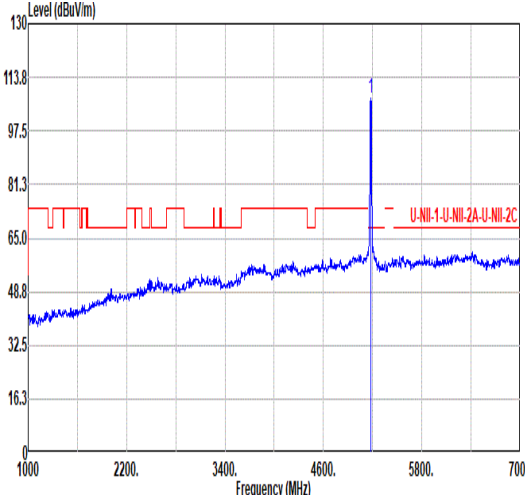
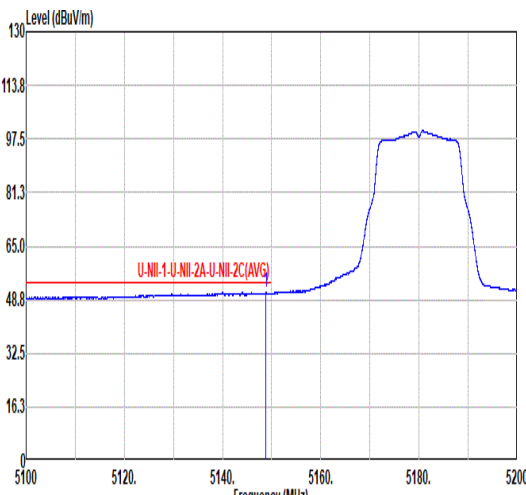
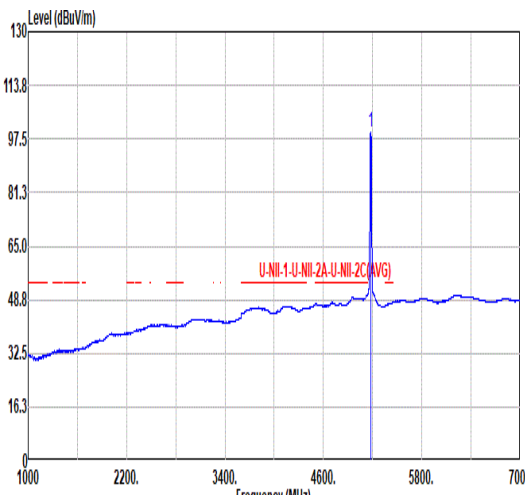
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
10	802.11a	149	5603.20	59.95	68.20	-8.25	V	PEAK	Pass	Band Edge
	802.11a	149	11490.00	42.94	54.00	-11.06	V	AVERAGE	Pass	Harmonic
11	802.11a	157	-	-	-	-	-	-	-	Band Edge
	802.11a	157	11570.00	43.16	54.00	-10.84	V	AVERAGE	Pass	Harmonic
12	802.11a	165	5960.00	59.45	68.20	-8.75	H	PEAK	Pass	Band Edge
	802.11a	165	11650.00	42.42	54.00	-11.58	V	AVERAGE	Pass	Harmonic
13	802.11ac VHT20	149	5639.60	59.06	68.20	-9.14	V	PEAK	Pass	Band Edge
	802.11ac VHT20	149	11490.00	39.97	54.00	-14.03	V	AVERAGE	Pass	Harmonic
14	802.11ac VHT20	157	-	-	-	-	-	-	-	Band Edge
	802.11ac VHT20	157	11570.00	43.16	54.00	-10.84	V	AVERAGE	Pass	Harmonic
15	802.11ac VHT20	165	5962.00	59.17	68.20	-9.03	V	PEAK	Pass	Band Edge
	802.11ac VHT20	165	11650.00	39.95	54.00	-14.05	V	AVERAGE	Pass	Harmonic
16	802.11ac VHT40	151	5617.52	60.05	68.20	-8.15	V	PEAK	Pass	Band Edge
	802.11ac VHT40	151	11510.00	45.34	74.00	-28.66	H	PEAK	Pass	Harmonic
17	802.11ac VHT40	159	5636.40	60.34	68.20	-7.86	V	PEAK	Pass	Band Edge
	802.11ac VHT40	159	11590.00	45.70	74.00	-28.30	V	PEAK	Pass	Harmonic
18	802.11ac VHT80	155	5944.80	59.96	68.20	-8.24	V	PEAK	Pass	Band Edge
	802.11ac VHT80	155	11550.00	44.89	74.00	-29.11	H	PEAK	Pass	Harmonic

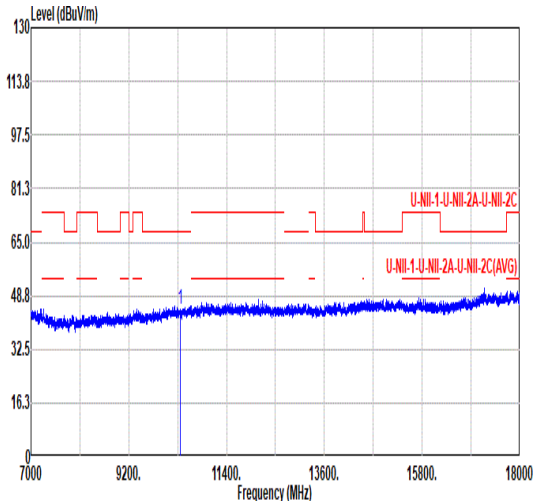
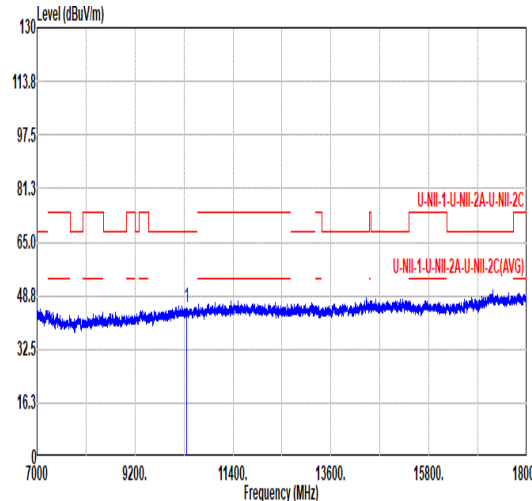


Mode	1																																																																																																		
	Band Edge																																																																																																		
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Peak																																																																																																			
	<table><thead><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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></thead><tbody><tr><td>1</td><td>5139.35</td><td>59.34</td><td>74.00</td><td>-14.66</td><td>41.36</td><td>34.12</td><td>13.87</td><td>30.01</td><td>0.00</td><td>344 159 PEAK</td></tr></tbody></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5139.35	59.34	74.00	-14.66	41.36	34.12	13.87	30.01	0.00	344 159 PEAK	<table><thead><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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></thead><tbody><tr><td>1</td><td>5180.00</td><td>100.34</td><td>-----</td><td>-----</td><td>82.30</td><td>34.22</td><td>13.84</td><td>30.02</td><td>0.00</td><td>344 159 PEAK</td></tr></tbody></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5180.00	100.34	-----	-----	82.30	34.22	13.84	30.02	0.00	344 159 PEAK
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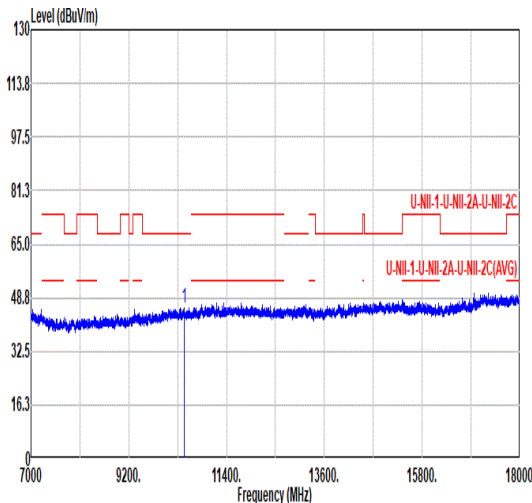
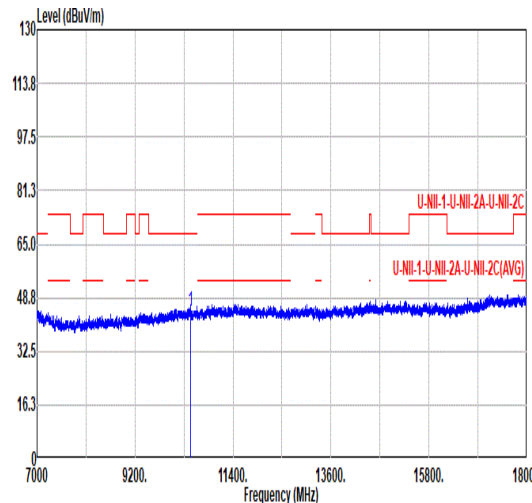


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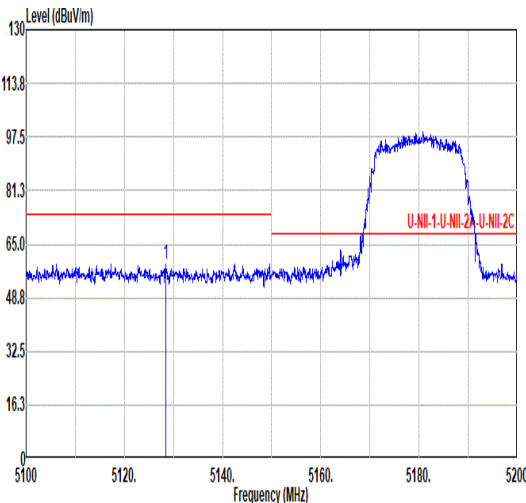
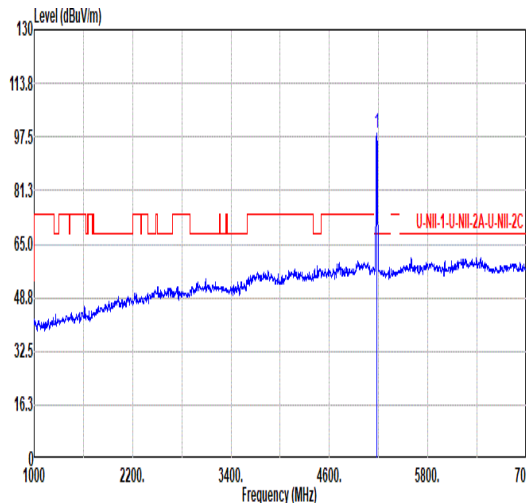
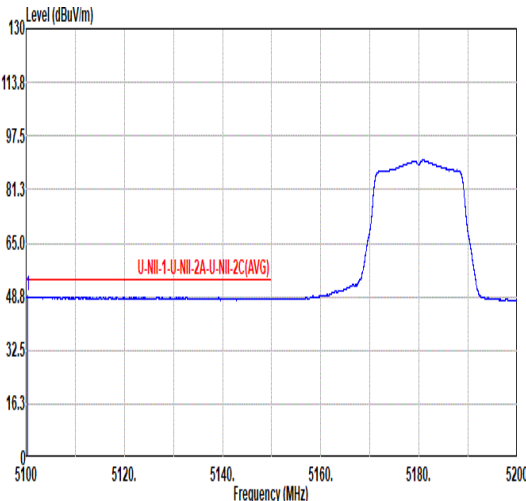
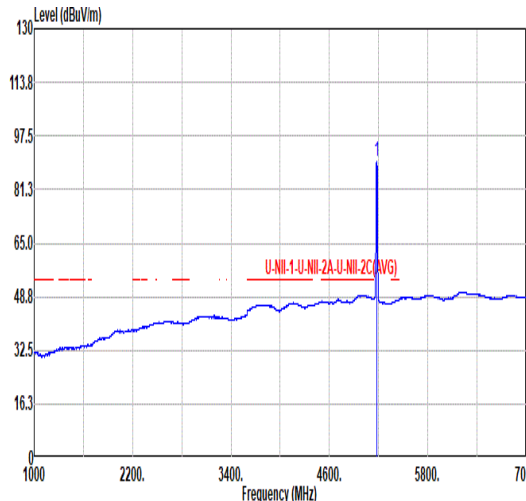


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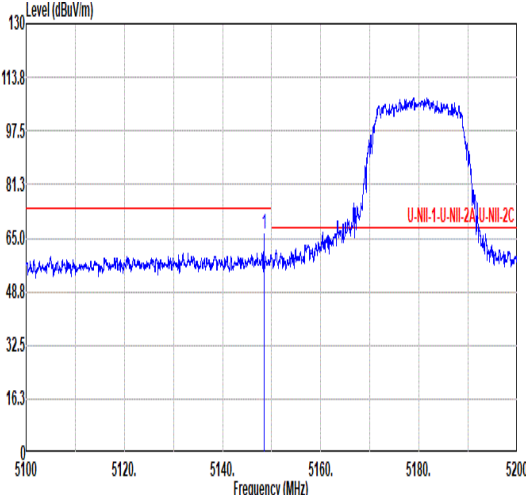
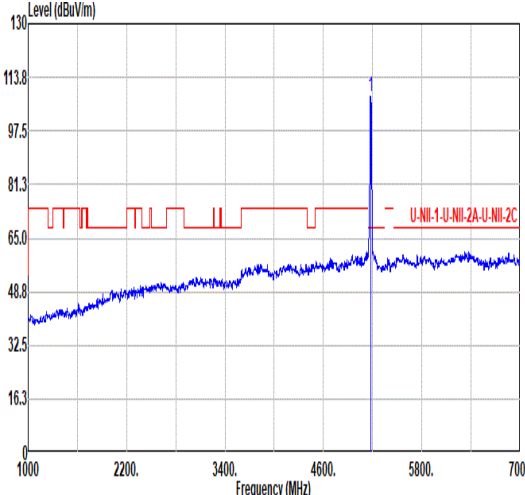
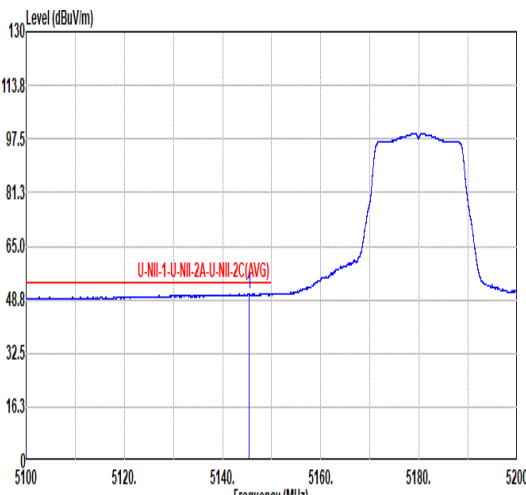
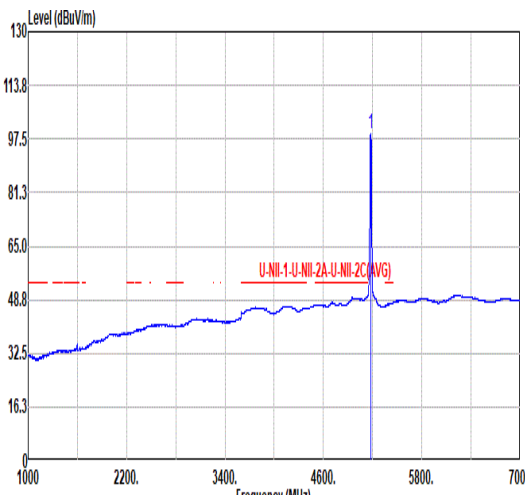


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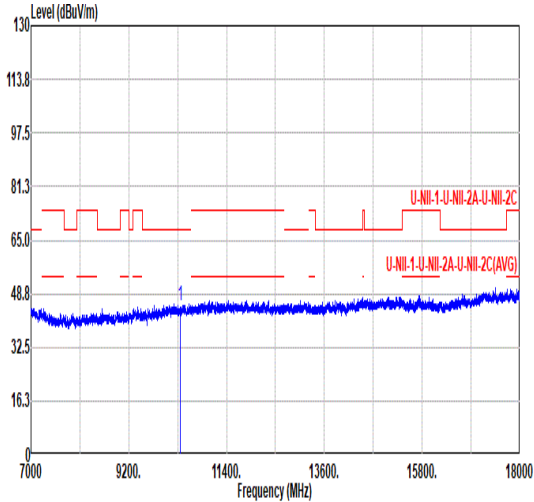
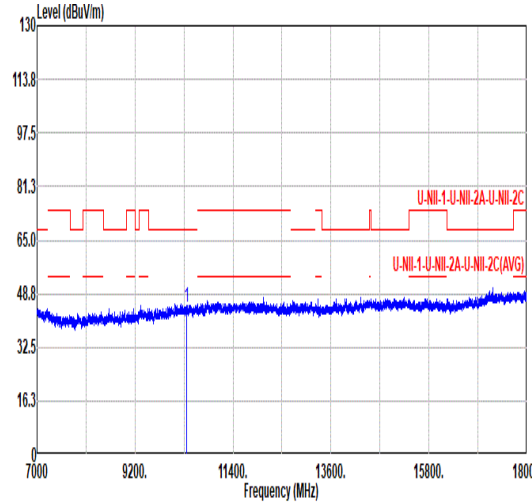


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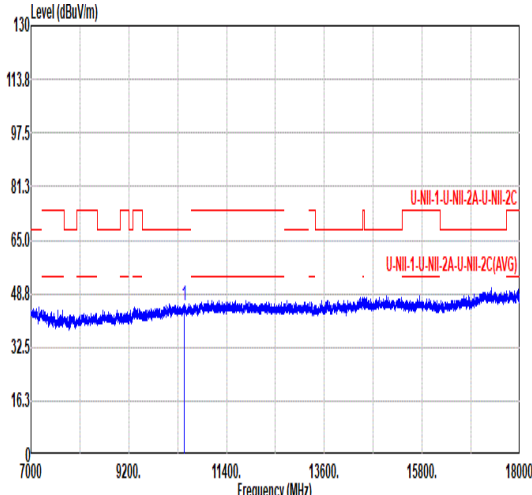
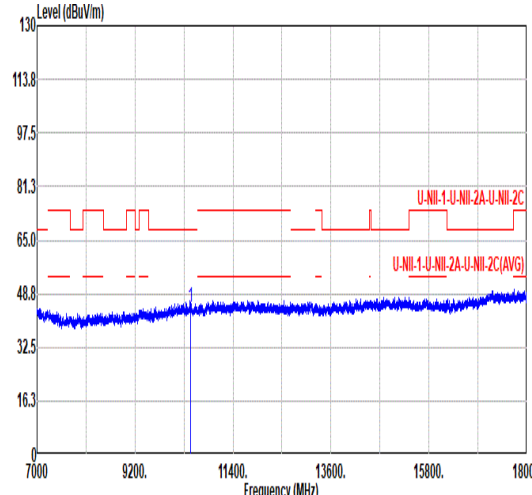


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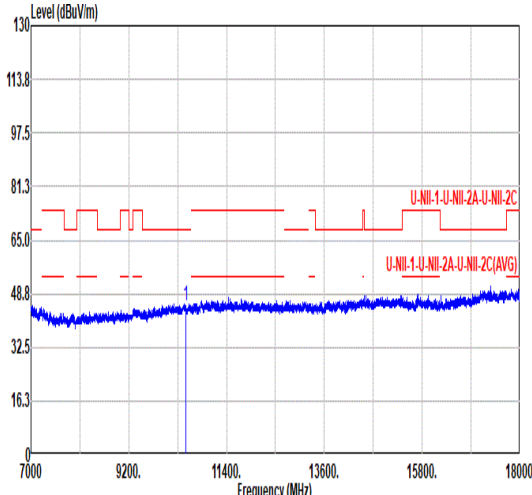
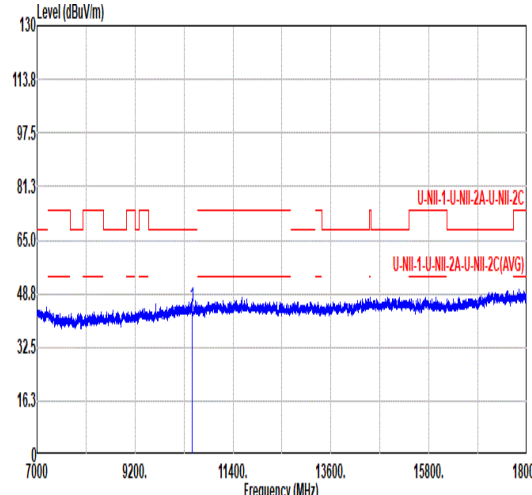


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		<table><thead><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>10360.00</td><td>44.48</td><td>68.20</td><td>-23.72</td><td>53.99</td><td>37.45</td><td>18.23</td><td>65.19</td><td>0.00</td><td>---</td><td>---</td><td>PEAK</td></tr></tbody></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10360.00	44.48	68.20	-23.72	53.99	37.45	18.23	65.19	0.00	---	---	PEAK
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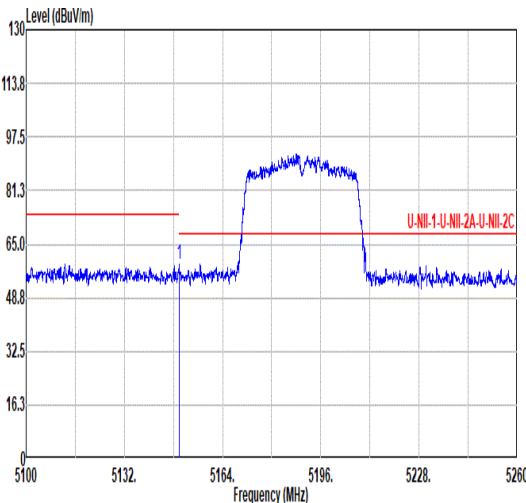
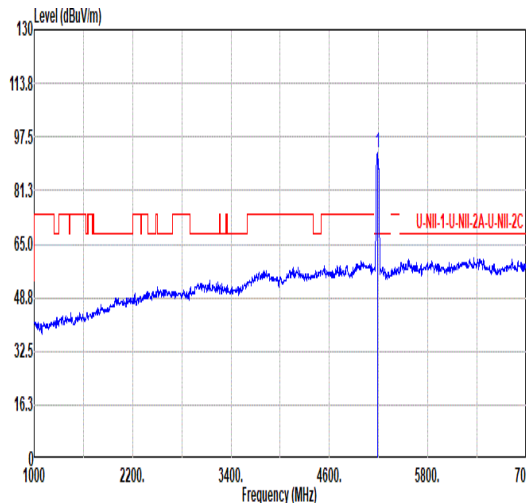
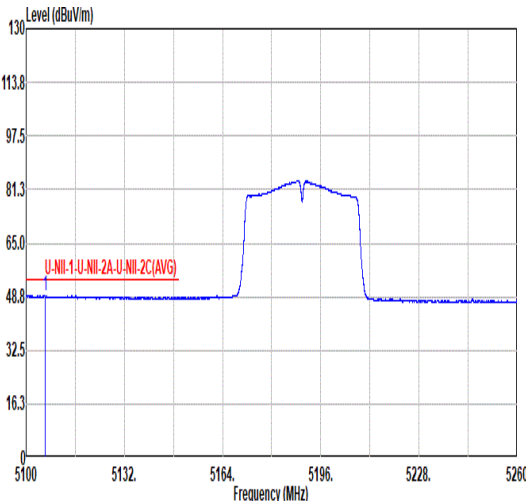
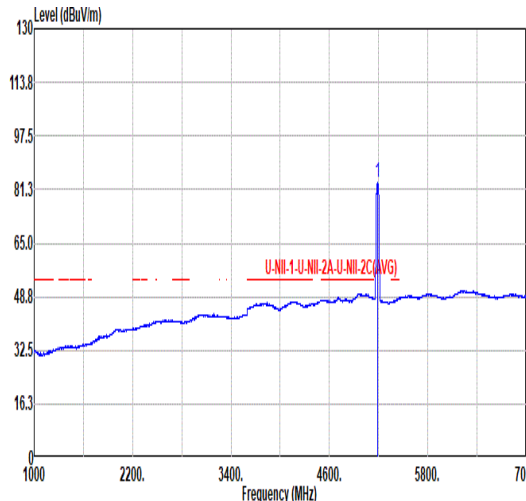


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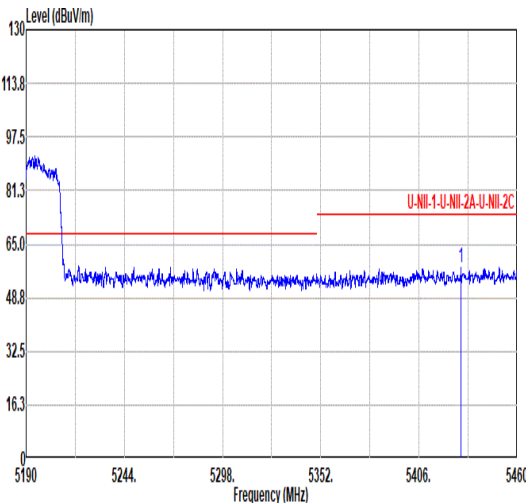
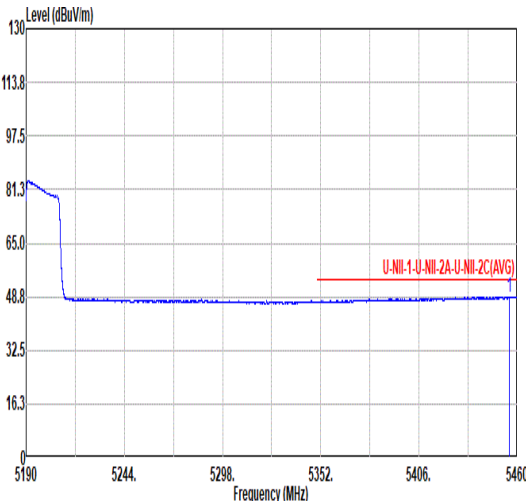


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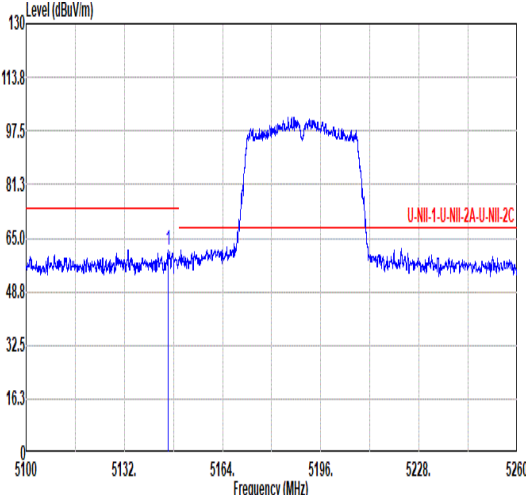
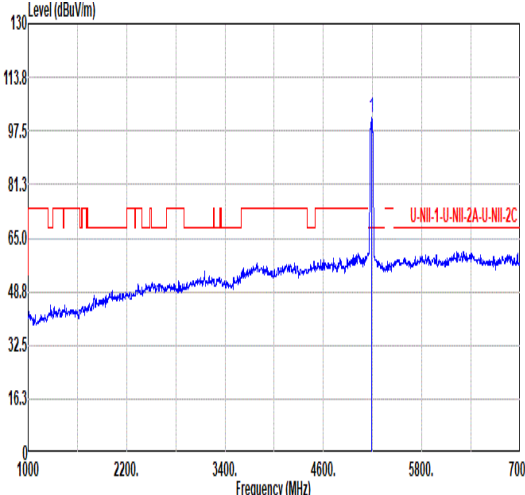
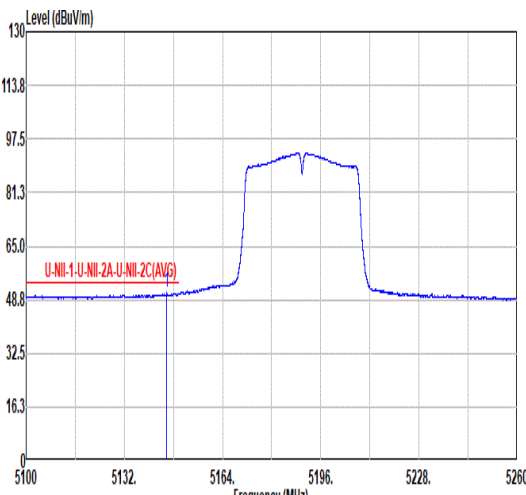
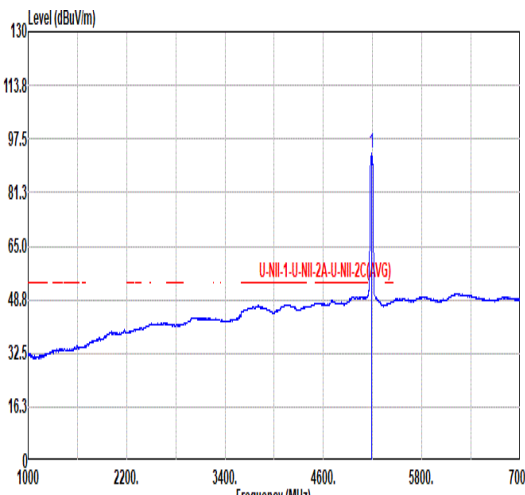


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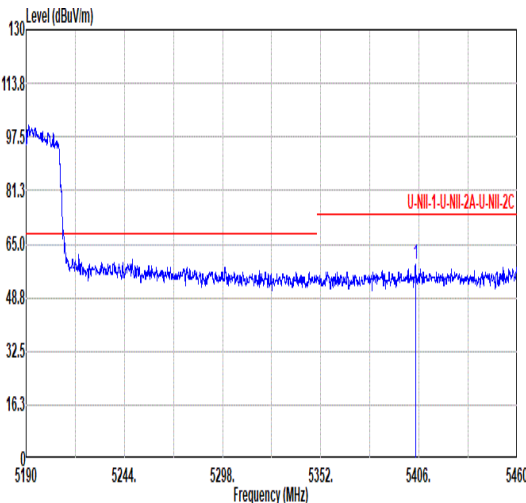
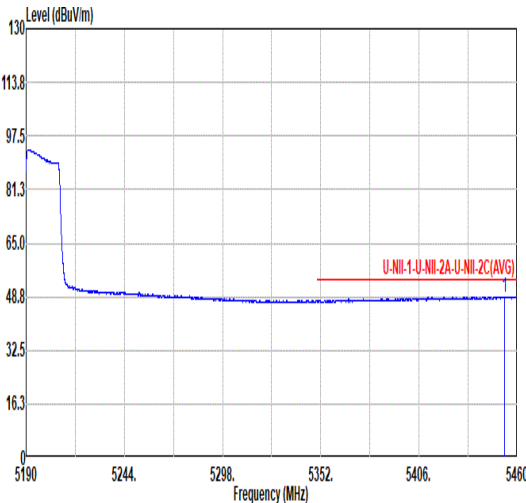


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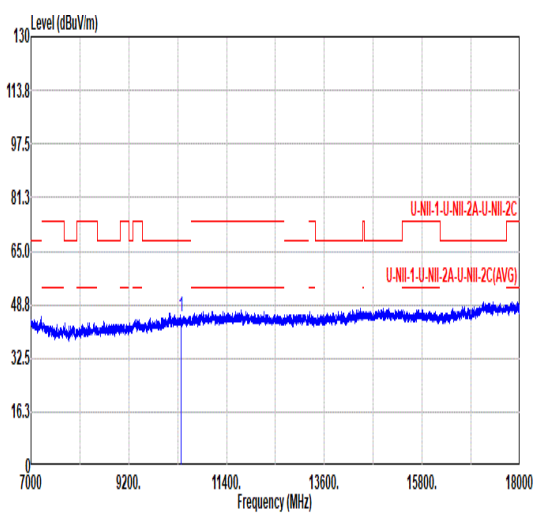
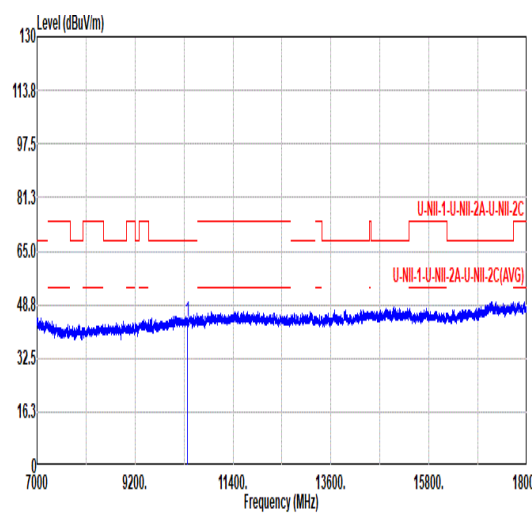


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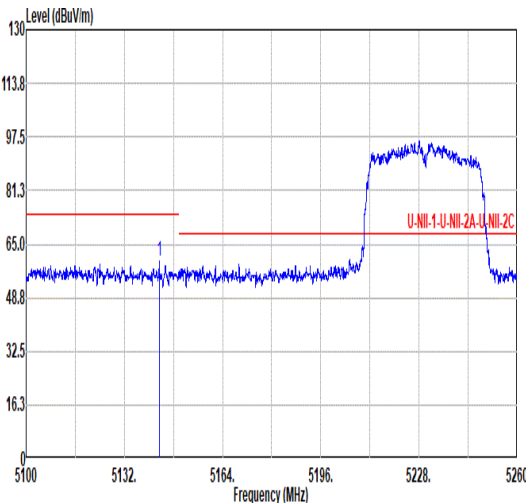
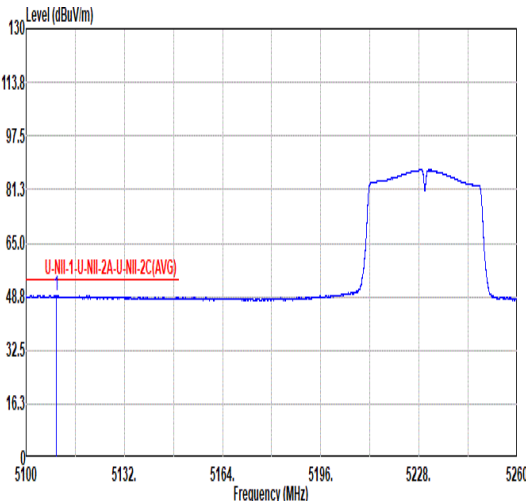


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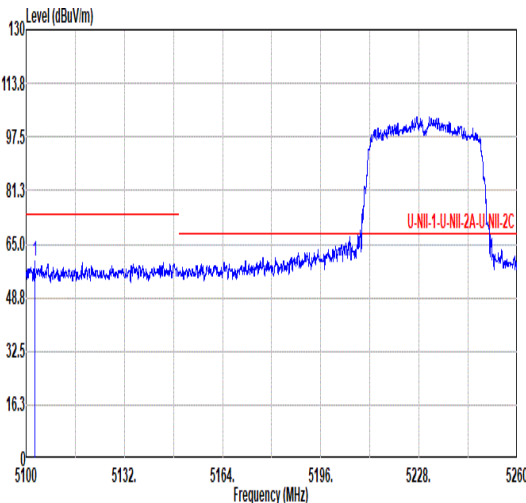
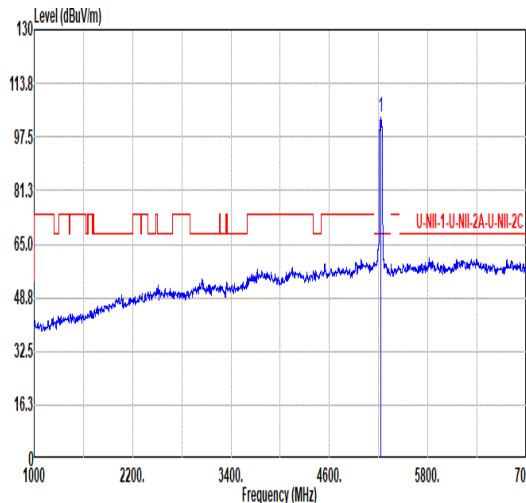
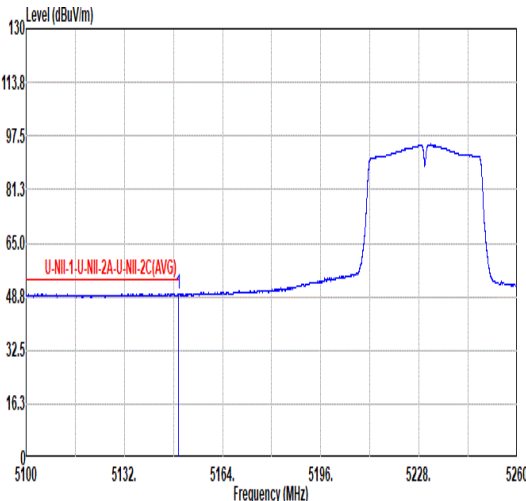
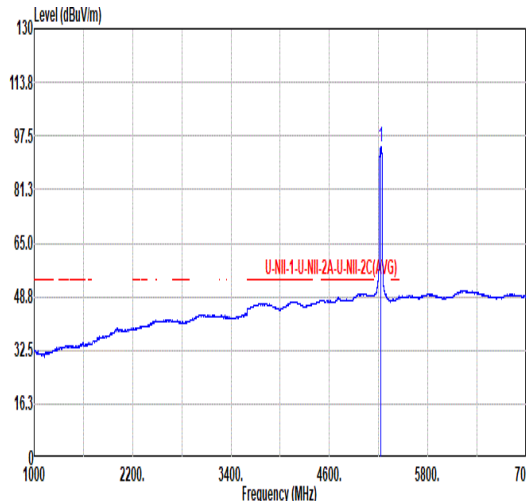


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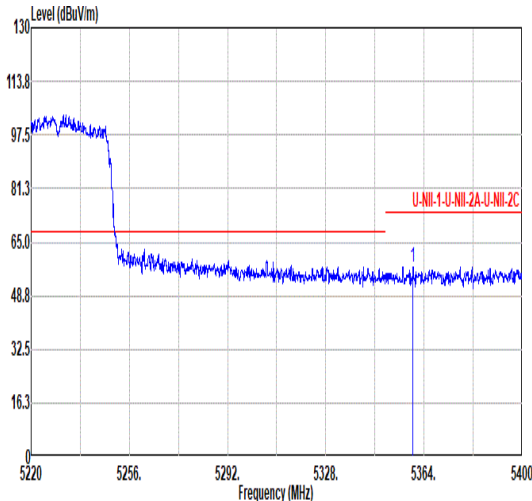
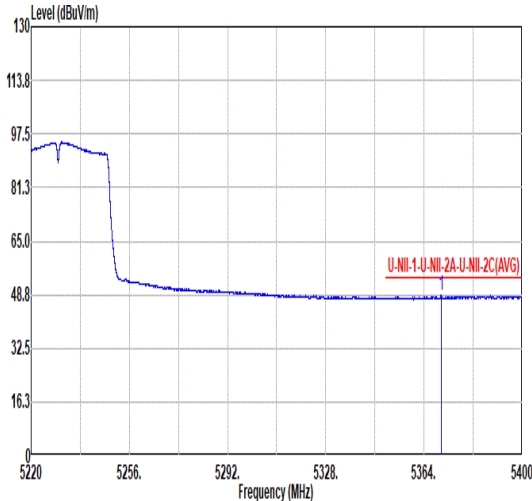


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Peak	<table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</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</th><th>deg</th></tr><tr><td>1</td><td>5380.66</td><td>57.79</td><td>74.00</td><td>-16.21</td><td>39.20</td><td>34.50</td><td>14.15</td><td>30.06</td><td>0.00</td><td>356</td><td>149</td><td>PEAK</td></tr></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	5380.66	57.79	74.00	-16.21	39.20	34.50	14.15	30.06	0.00	356	149	PEAK	Blank				
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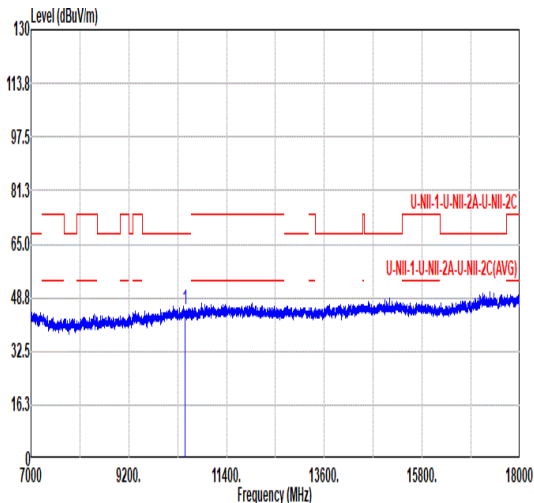
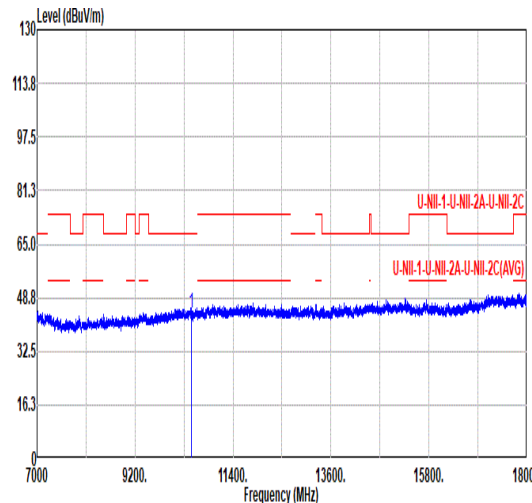


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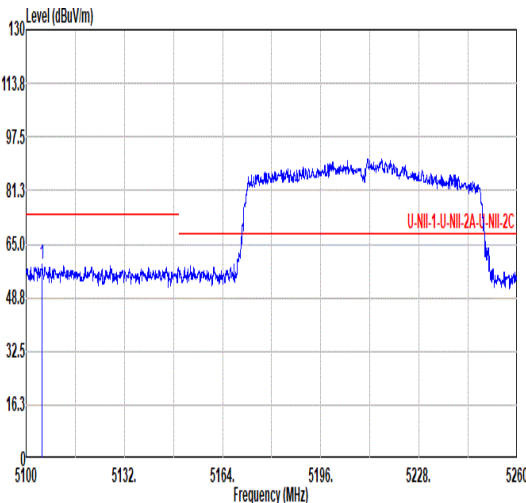
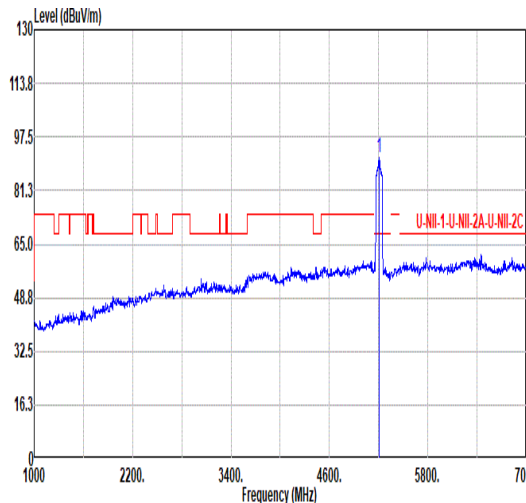
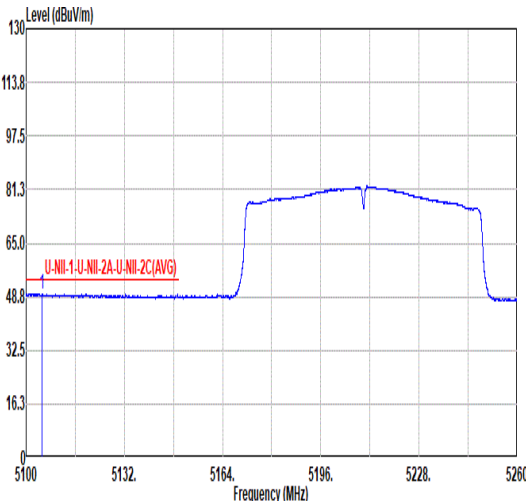
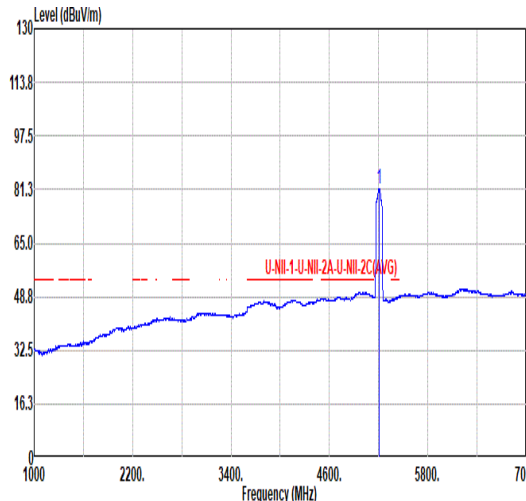


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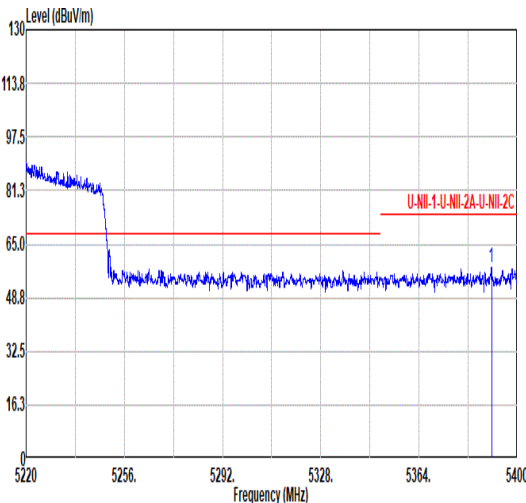
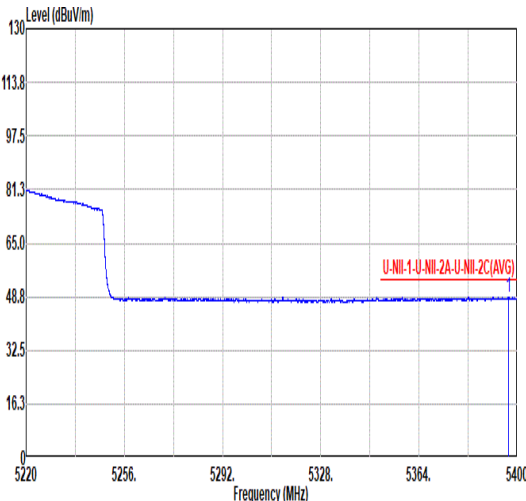


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ANT	SISO																																																																													
Pol.	Horizontal						Vertical																																																																							
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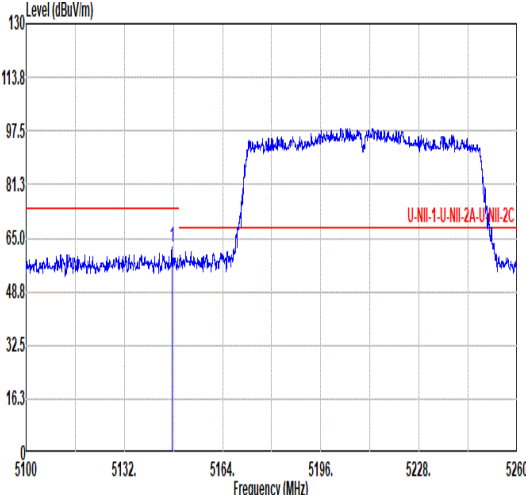
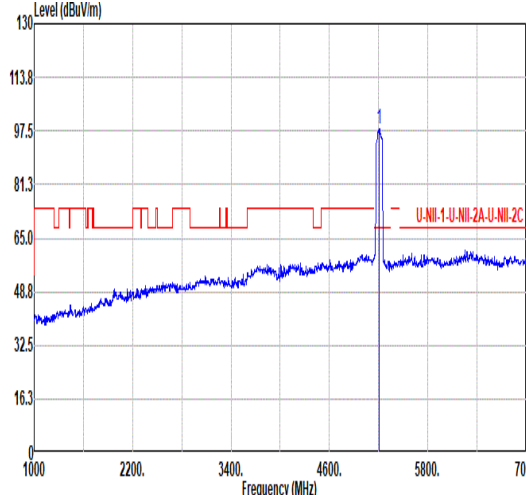
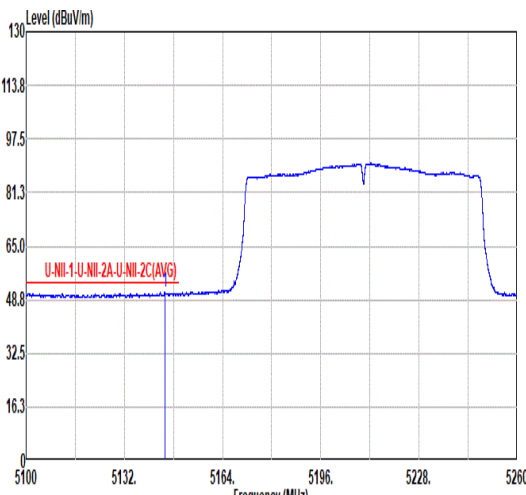
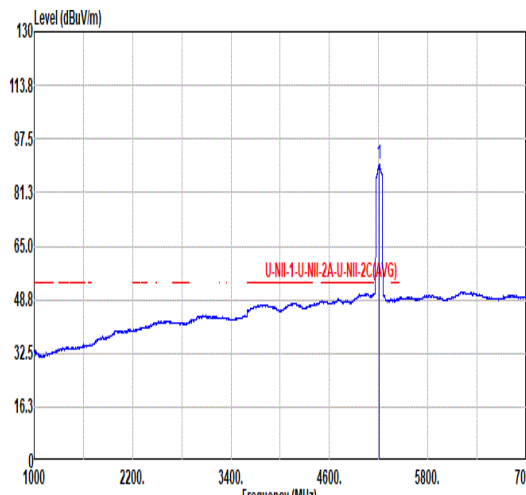


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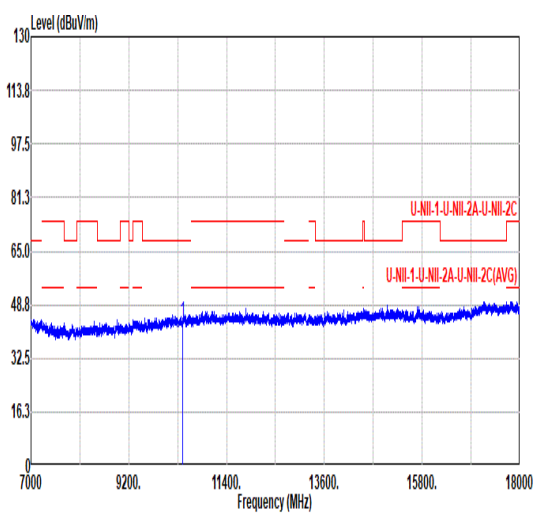
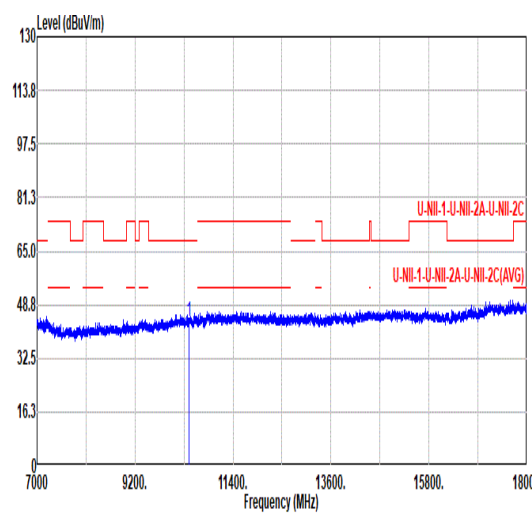


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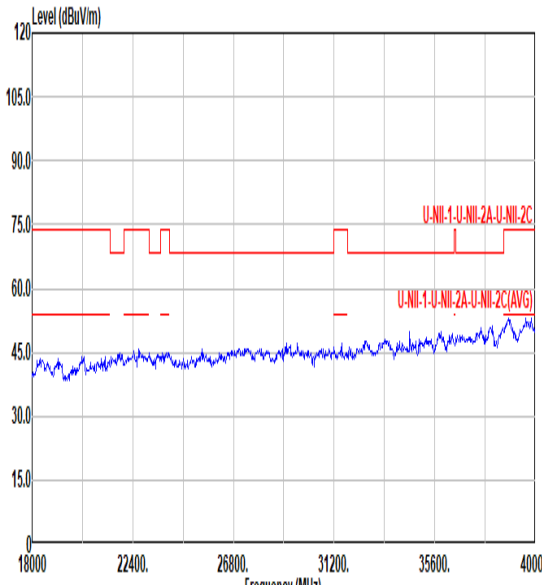
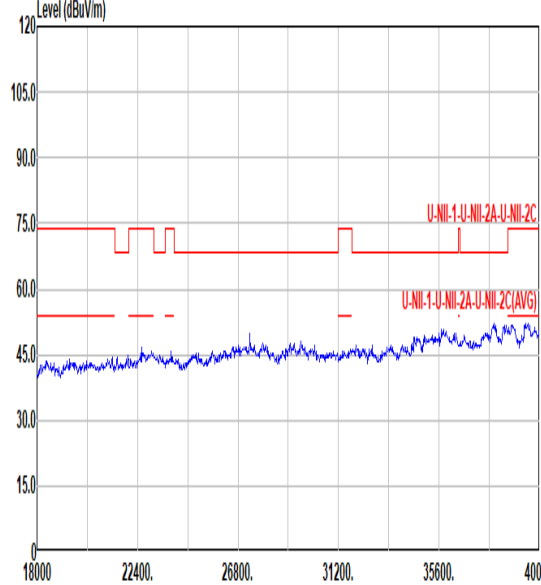


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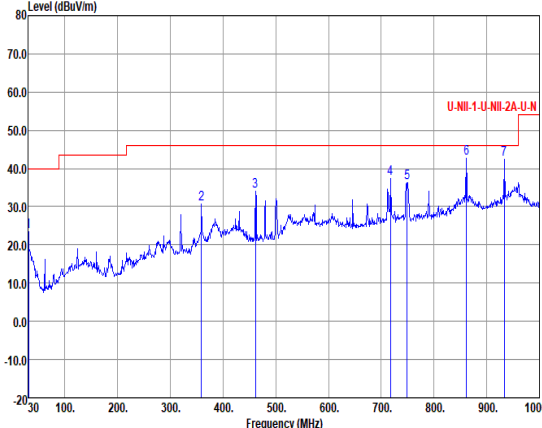
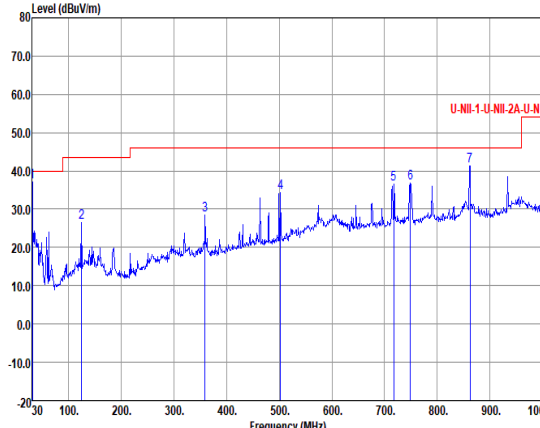


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	U-NII-1_5.15-5.25_802.11ac VHT80_CH42_Full_5210MHz																																																																																																		
ANT	SISO																																																																																																		
Pol.	Horizontal						Vertical																																																																																												
Peak Avg																																																																																																			
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>10420.00</td><td>43.77</td><td>68.20</td><td>-24.43</td><td>53.07</td><td>37.51</td><td>18.28</td><td>65.09</td><td>0.00</td><td>---</td><td>---</td><td>PEAK</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10420.00	43.77	68.20	-24.43	53.07	37.51	18.28	65.09	0.00	---	---	PEAK	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>10420.00</td><td>43.82</td><td>68.20</td><td>-24.38</td><td>53.12</td><td>37.52</td><td>18.27</td><td>65.09</td><td>0.00</td><td>---</td><td>---</td><td>PEAK</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10420.00	43.82	68.20	-24.38	53.12	37.52	18.27	65.09	0.00	---	---
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																										
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																										
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1	10420.00	43.77	68.20	-24.43	53.07	37.51	18.28	65.09	0.00	---	---	PEAK																																																																																							
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1	10420.00	43.82	68.20	-24.38	53.12	37.52	18.27	65.09	0.00	---	---	PEAK																																																																																							

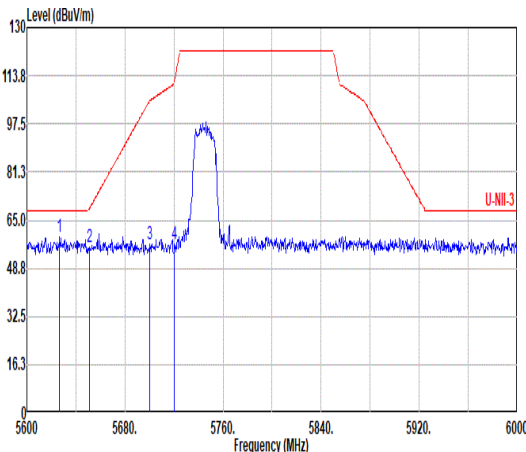
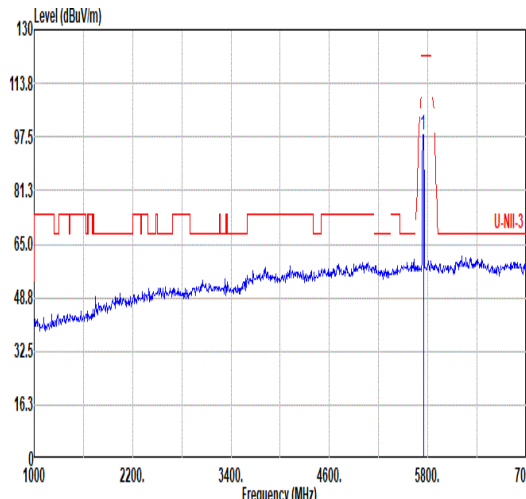
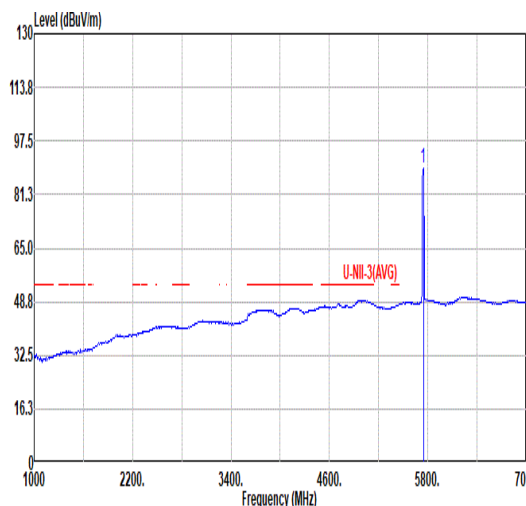


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Pol.	Horizontal	Vertical
Peak Avg		

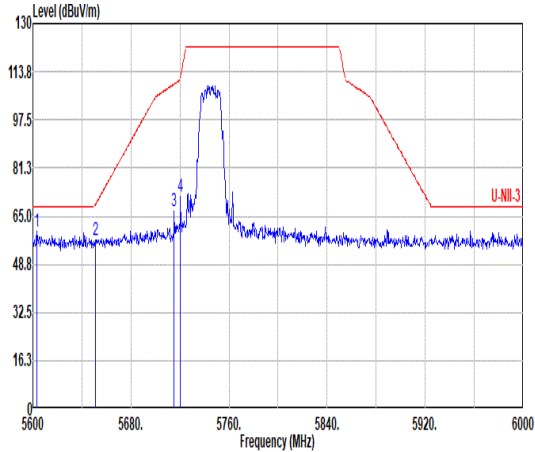
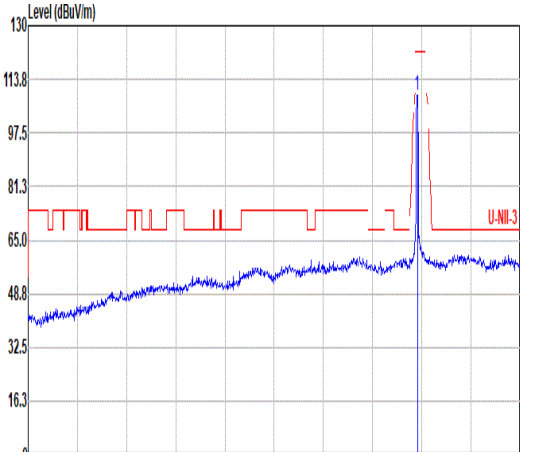
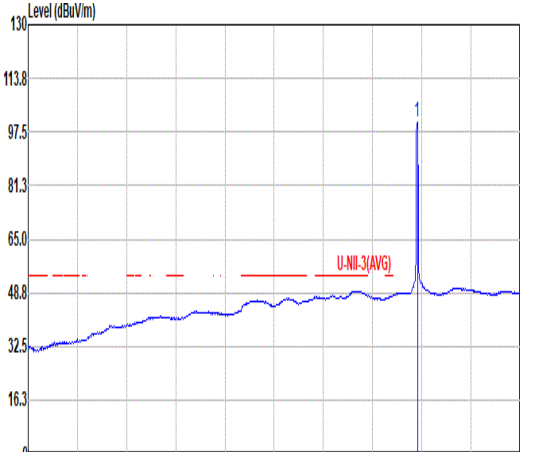


Mode	18																																																																																																																				
	30M-1G																																																																																																																				
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ANT	SISO																																																																																																																				
Pol.	Horizontal																																																																																																																				
Peak QP																																																																																																																					
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																											
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	1	30.97	23.34	-16.66	40.00	29.94	25.09	0.51	32.20	---	---	Peak																																																																																																									
	2	358.83	30.65	-15.35	46.00	39.28	20.83	2.76	32.22	---	---	Peak																																																																																																									
	3	461.65	33.97	-12.03	46.00	39.87	23.21	3.13	32.24	---	---	Peak																																																																																																									
	4	717.73	37.30	-8.70	46.00	38.65	26.98	3.91	32.24	---	---	Peak																																																																																																									
	5	748.77	36.33	-9.67	46.00	37.20	27.44	3.99	32.30	---	---	Peak																																																																																																									
	6	861.29	42.72	-3.28	46.00	42.07	28.74	4.27	32.36	200	104	Peak																																																																																																									
7	933.07	42.31	-3.69	46.00	40.48	29.59	4.44	32.20	---	---	Peak																																																																																																										
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Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																												
MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg																																																																																																												
1	30.97	36.97	-3.03	40.00	43.57	25.09	0.51	32.20	100	72	Peak																																																																																																										
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3	358.83	28.35	-17.65	46.00	36.98	20.83	2.76	32.22	---	---	Peak																																																																																																										
4	502.39	34.42	-11.58	46.00	39.47	24.08	3.27	32.40	---	---	Peak																																																																																																										
5	717.73	36.47	-9.53	46.00	37.82	26.98	3.91	32.24	---	---	Peak																																																																																																										
6	748.77	36.81	-9.19	46.00	37.68	27.44	3.99	32.30	---	---	Peak																																																																																																										
7	862.26	41.30	-4.70	46.00	40.63	28.75	4.27	32.35	---	---	Peak																																																																																																										

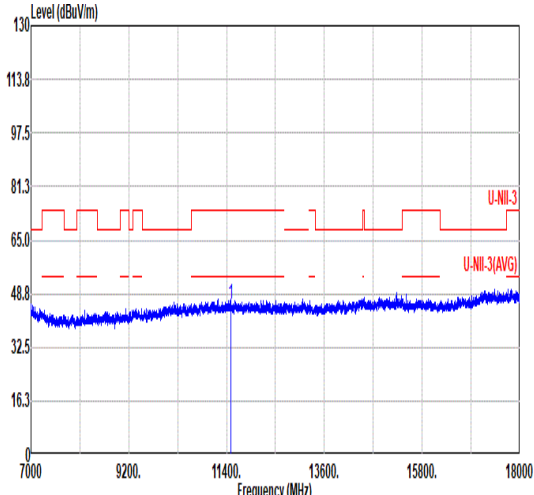
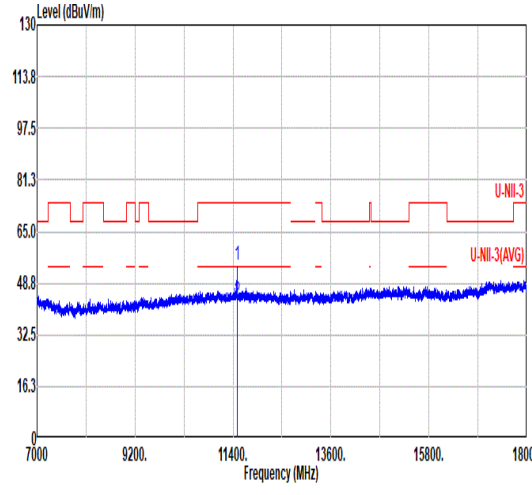


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ANT	SISO																																																																																																																
Pol.	Horizontal					Fundamental																																																																																																											
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	<table><thead><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>5626.00</td><td>59.38</td><td>68.20</td><td>-8.82</td><td>40.33</td><td>34.60</td><td>14.56</td><td>30.11</td><td>0.00</td><td>100</td><td>252 PEAK</td></tr><tr><td>2</td><td>5650.00</td><td>55.99</td><td>68.00</td><td>-12.81</td><td>36.90</td><td>34.60</td><td>14.60</td><td>30.11</td><td>0.00</td><td>100</td><td>252 PEAK</td></tr><tr><td>3</td><td>5700.00</td><td>57.02</td><td>105.30</td><td>-48.28</td><td>37.83</td><td>34.60</td><td>14.68</td><td>30.09</td><td>0.00</td><td>100</td><td>252 PEAK</td></tr><tr><td>4</td><td>5720.40</td><td>57.11</td><td>111.81</td><td>-54.70</td><td>37.75</td><td>34.66</td><td>14.78</td><td>30.08</td><td>0.00</td><td>100</td><td>252 PEAK</td></tr></tbody></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	1	5626.00	59.38	68.20	-8.82	40.33	34.60	14.56	30.11	0.00	100	252 PEAK	2	5650.00	55.99	68.00	-12.81	36.90	34.60	14.60	30.11	0.00	100	252 PEAK	3	5700.00	57.02	105.30	-48.28	37.83	34.60	14.68	30.09	0.00	100	252 PEAK	4	5720.40	57.11	111.81	-54.70	37.75	34.66	14.78	30.08	0.00	100	252 PEAK	<table><thead><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>5745.00</td><td>97.96</td><td>-----</td><td>-----</td><td>78.38</td><td>34.74</td><td>14.91</td><td>30.07</td><td>0.00</td><td>100</td><td>252 PEAK</td></tr></tbody></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	1	5745.00	97.96	-----	-----	78.38	34.74	14.91	30.07	0.00	100
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																								
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3	5700.00	57.02	105.30	-48.28	37.83	34.60	14.68	30.09	0.00	100	252 PEAK																																																																																																						
4	5720.40	57.11	111.81	-54.70	37.75	34.66	14.78	30.08	0.00	100	252 PEAK																																																																																																						
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																								
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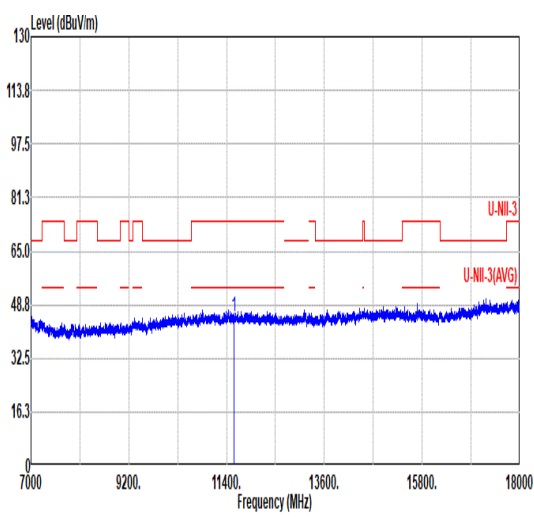
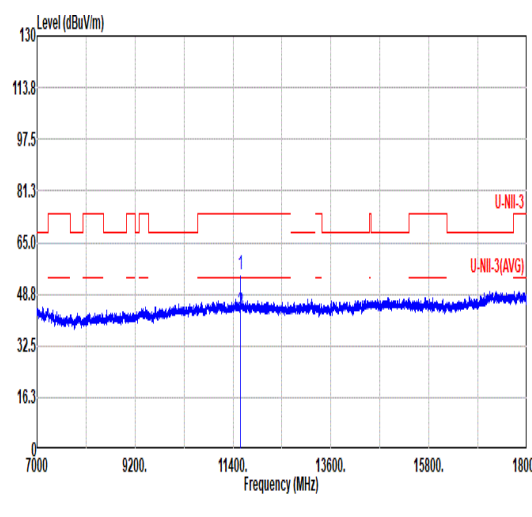


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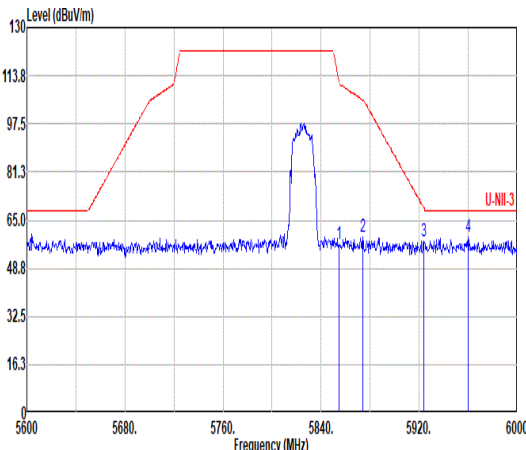
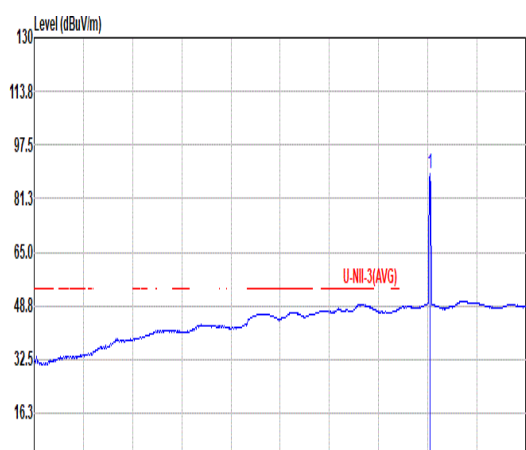


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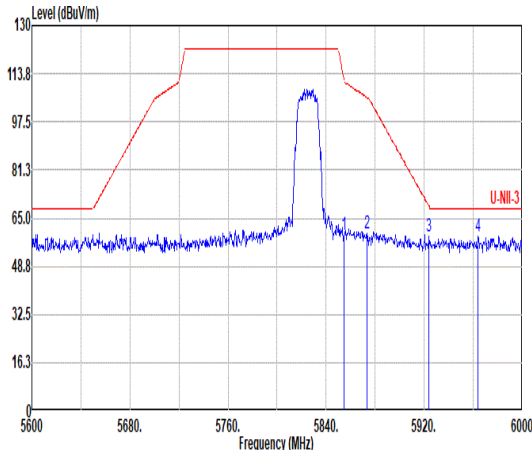
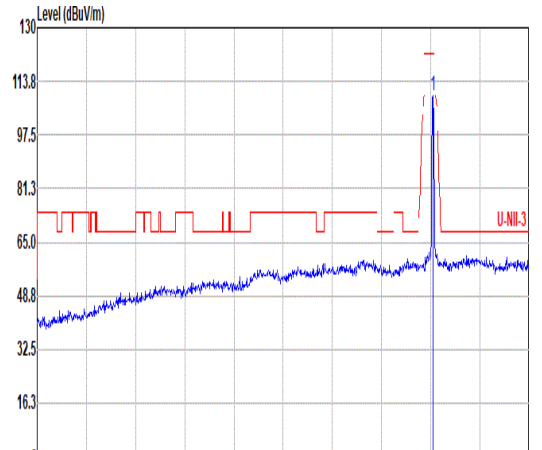


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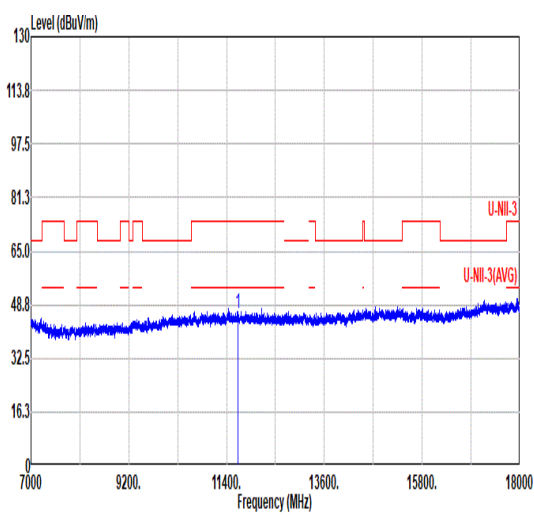
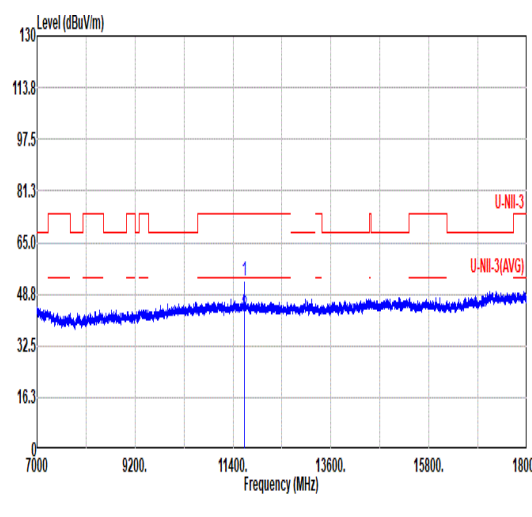


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2	5874.00	59.41	105.58	-46.17	39.65	35.05	14.75	30.04	0.00	111	252 PEAK																																																																																	
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4	5960.00	59.45	68.20	-8.75	39.97	35.16	14.42	30.10	0.00	111	252 PEAK																																																																																	
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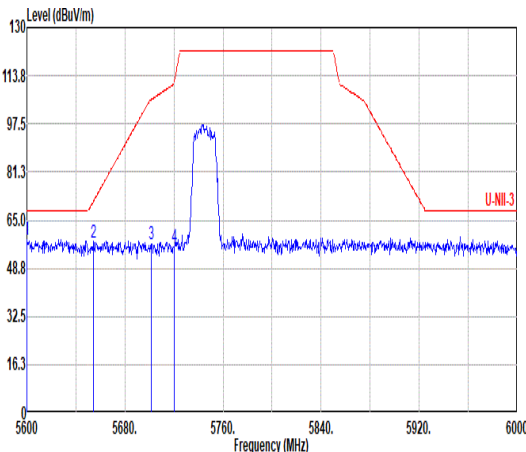
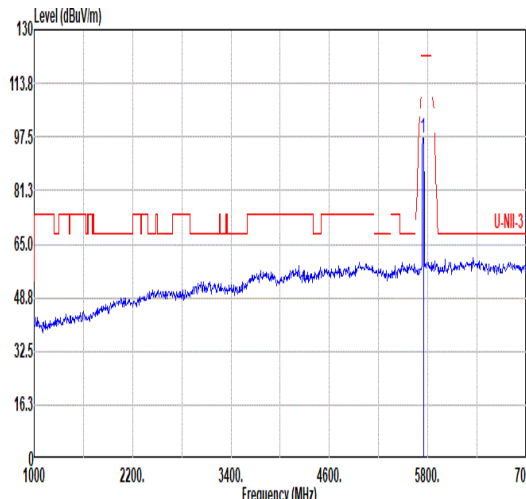
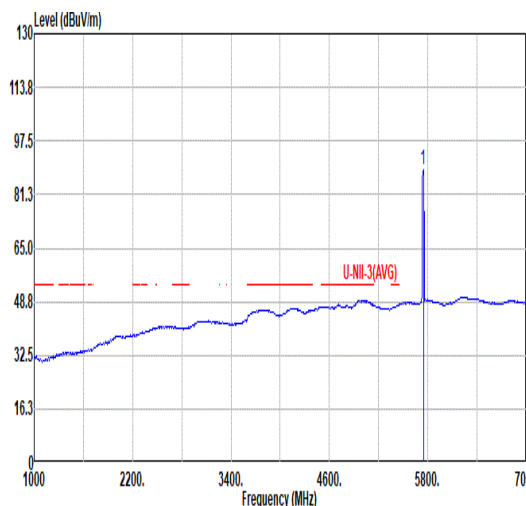


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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																														
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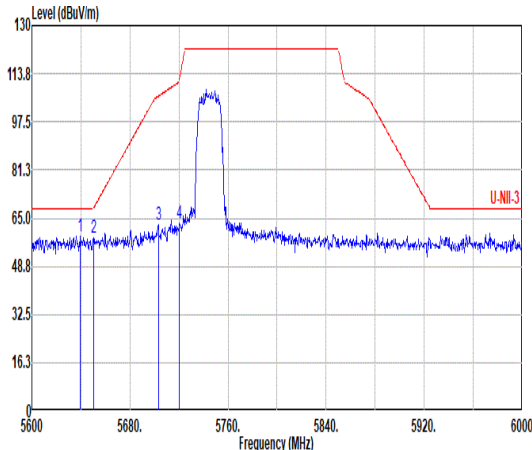
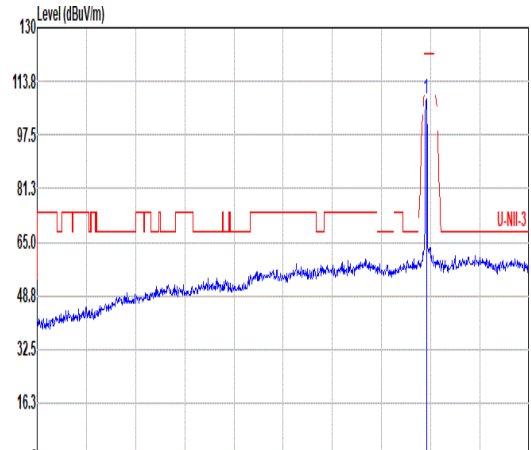


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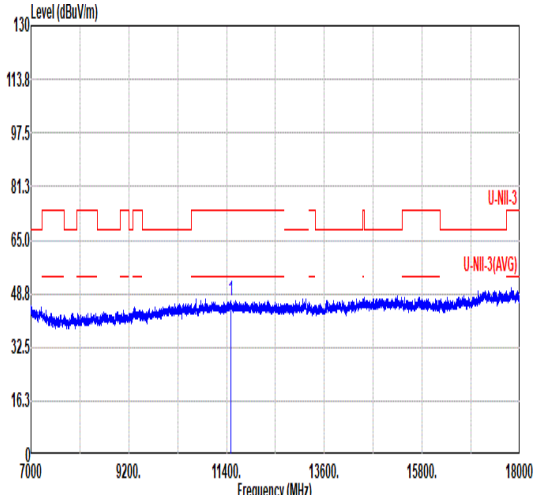
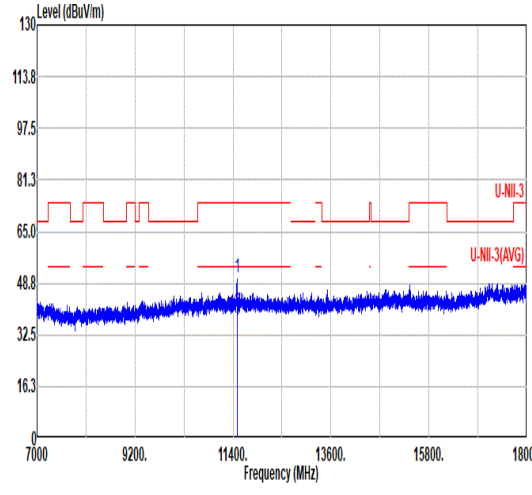


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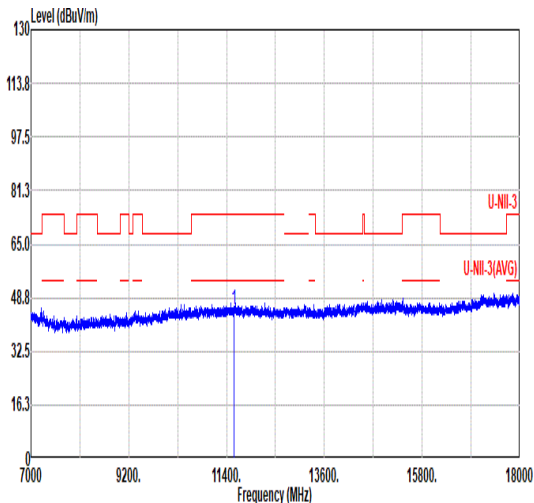
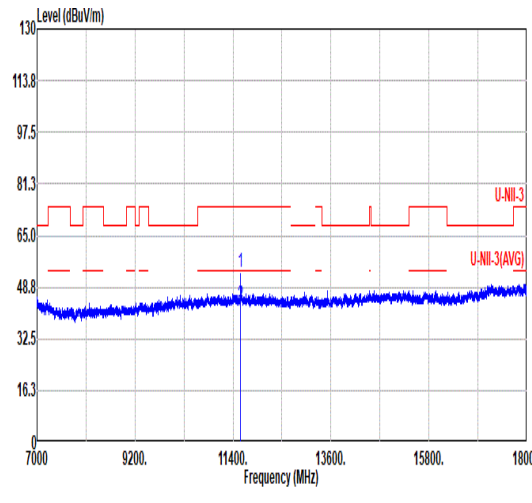


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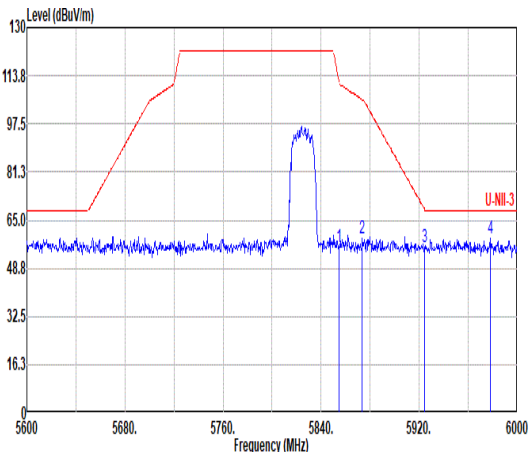
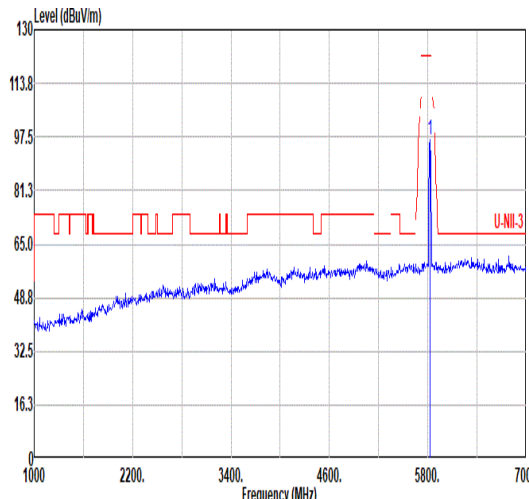
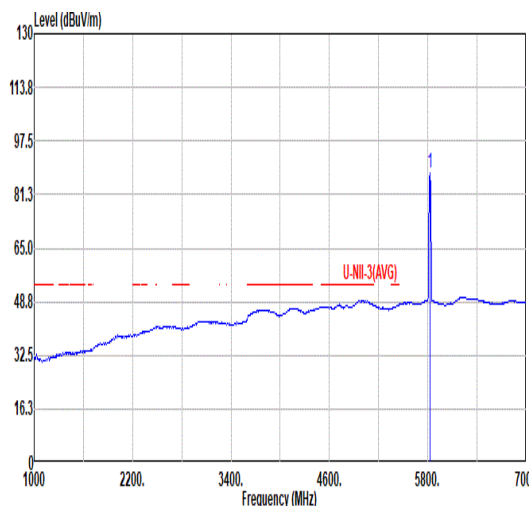


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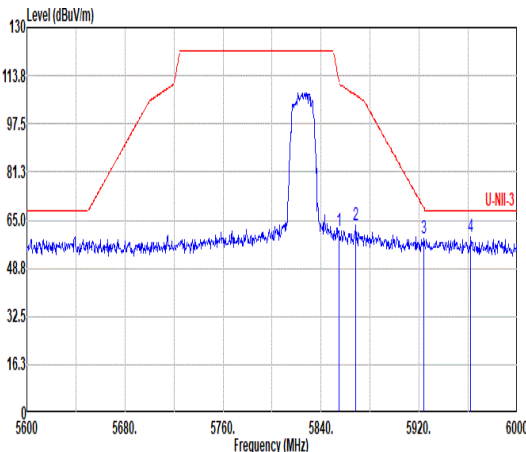
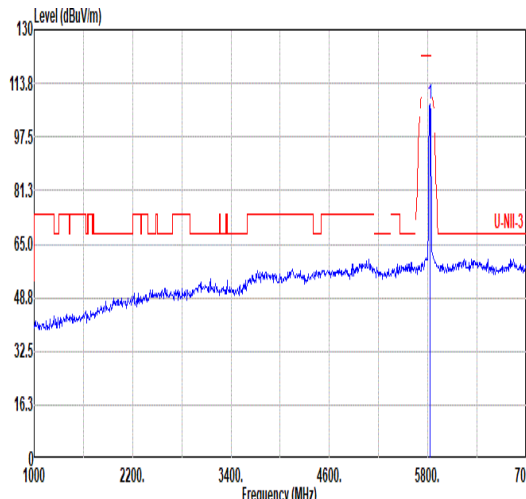
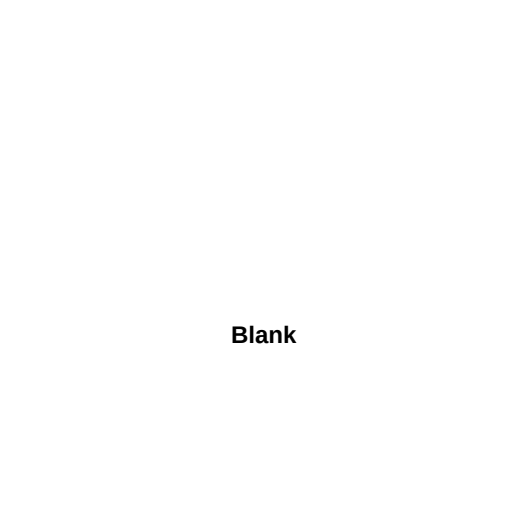
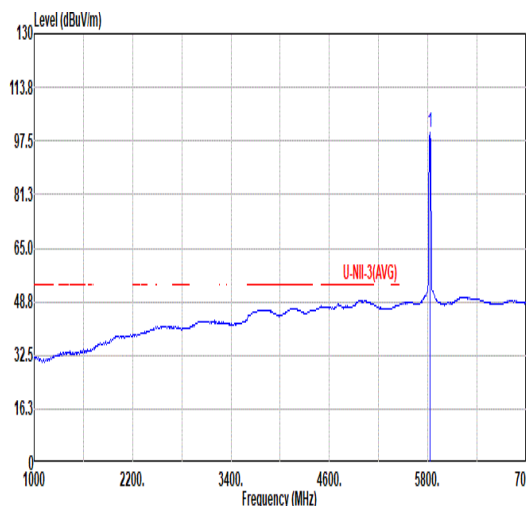


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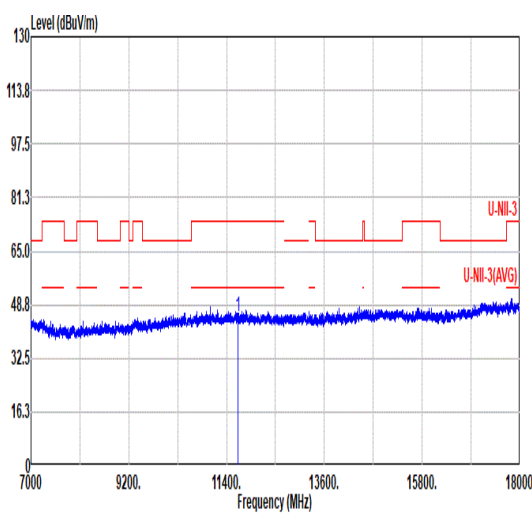
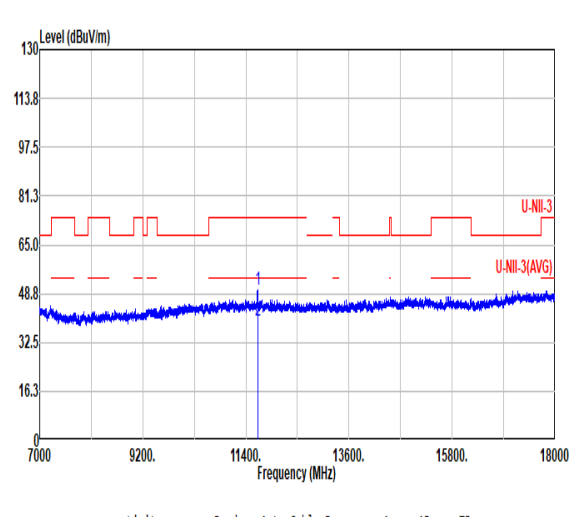


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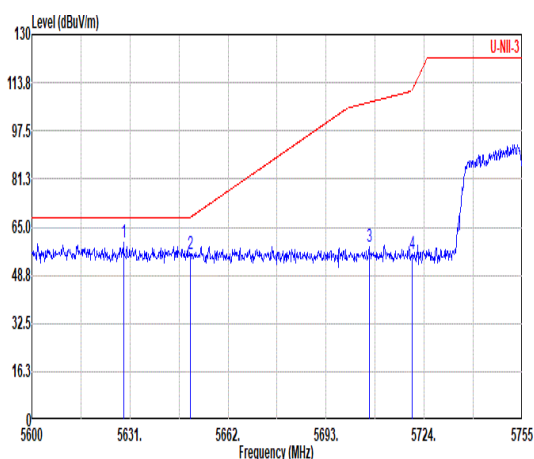
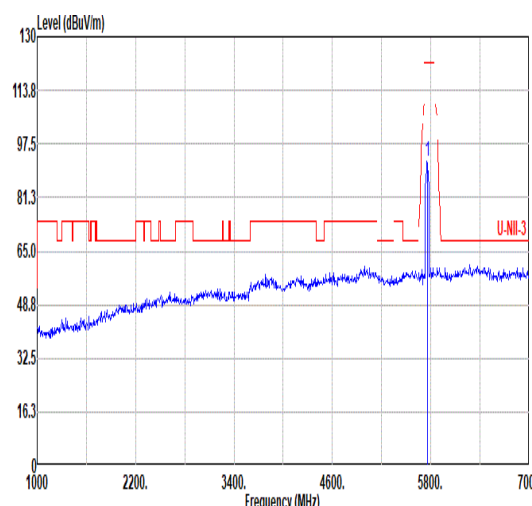
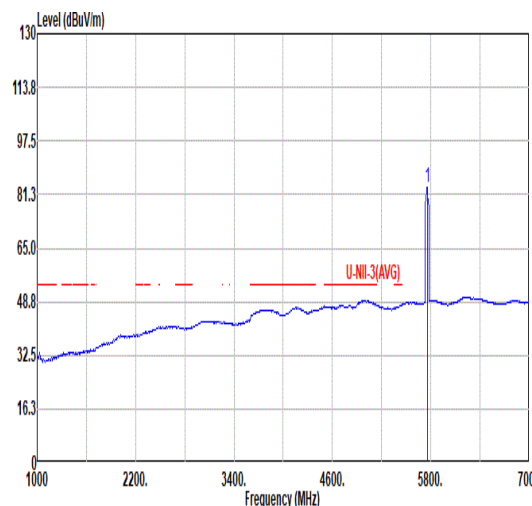


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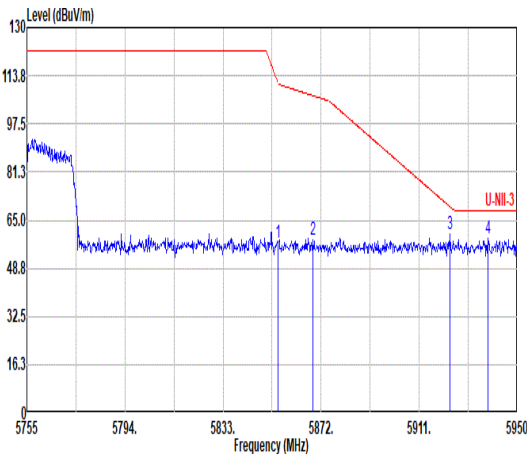


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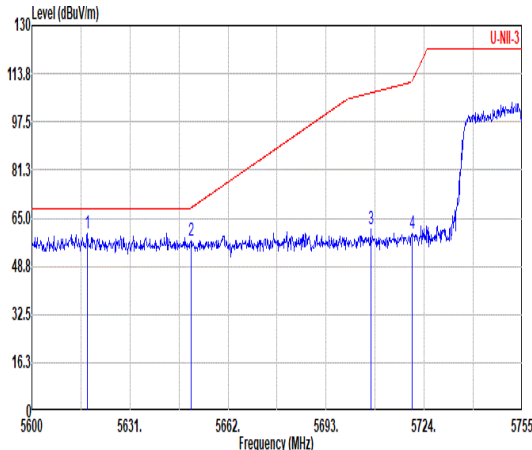
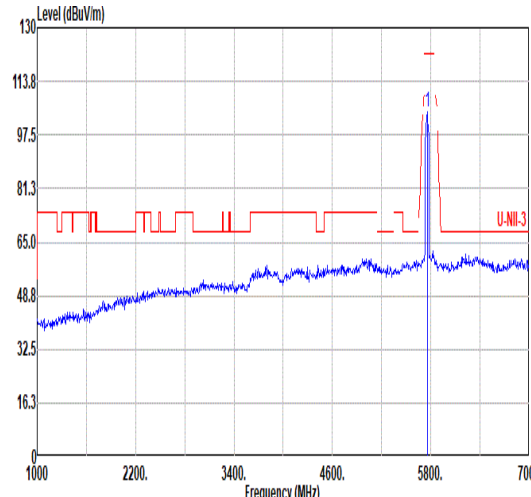
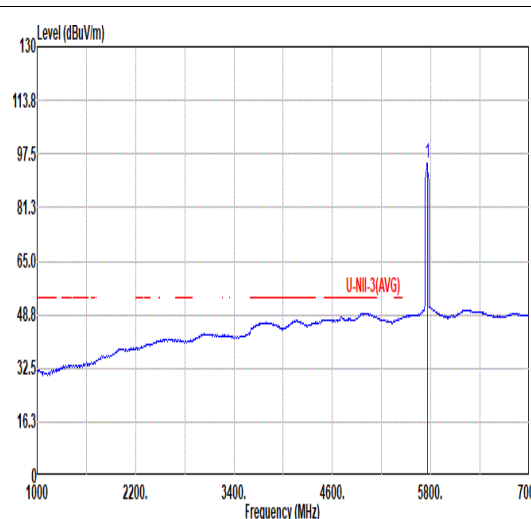


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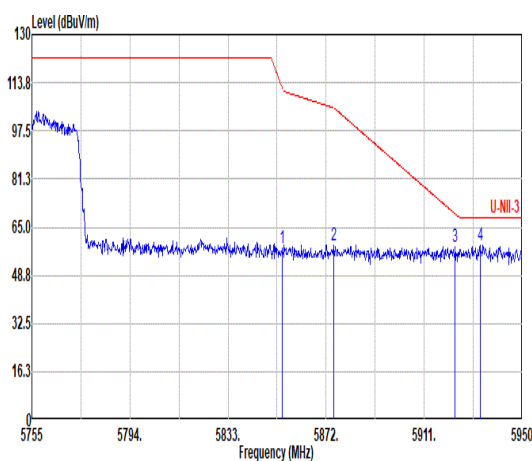


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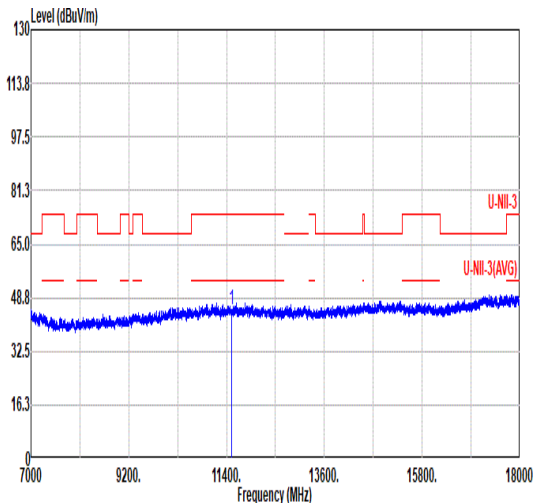
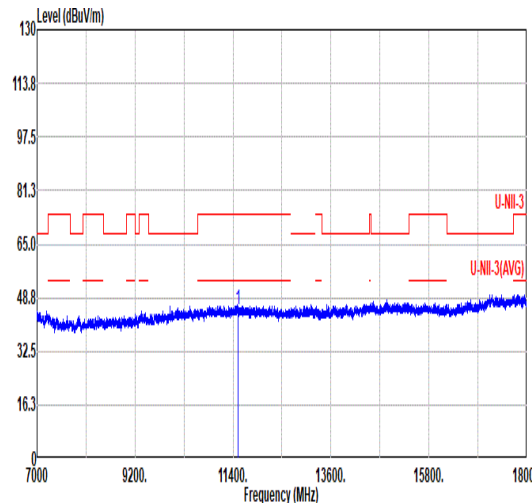


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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																													
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3	5707.11	61.09	107.29	-46.20	41.84	34.62	14.72	30.09	0.00	195 149 PEAK																																																																														
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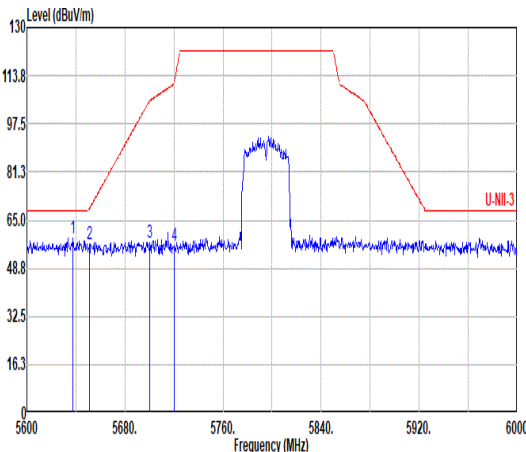
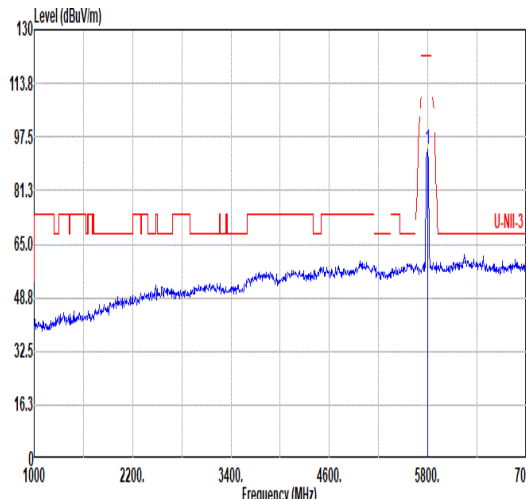
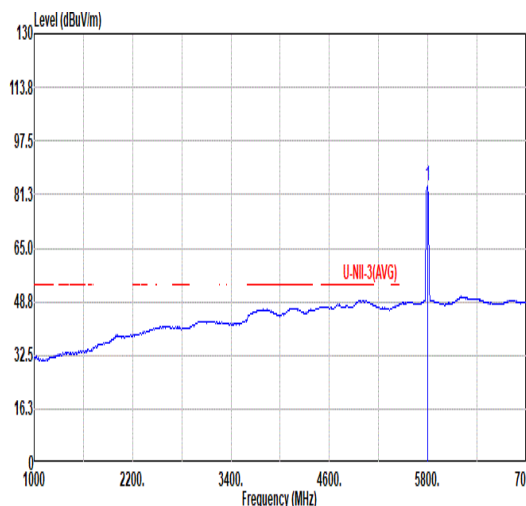


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3	5923.29	58.23	69.47	-11.24	38.65	35.12	14.53	30.07	0.00	195	149	PEAK																																																																																				
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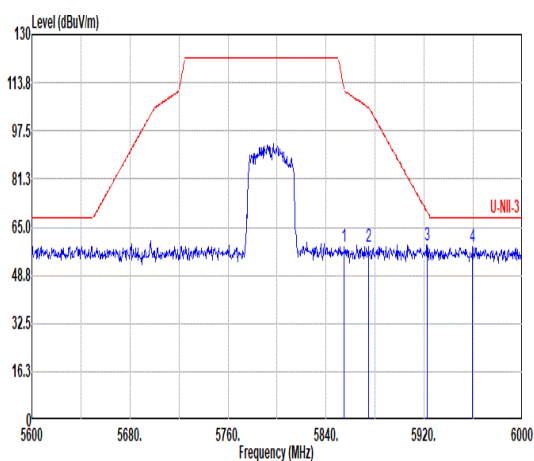


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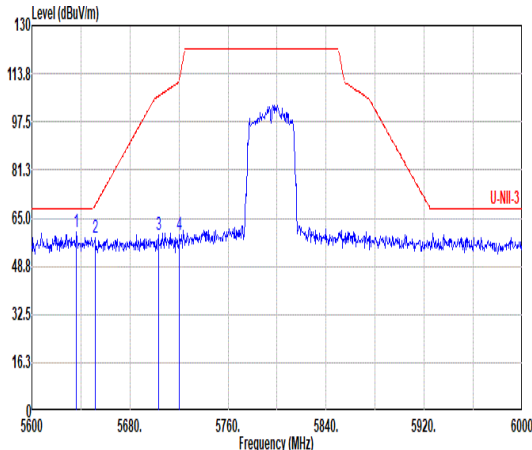
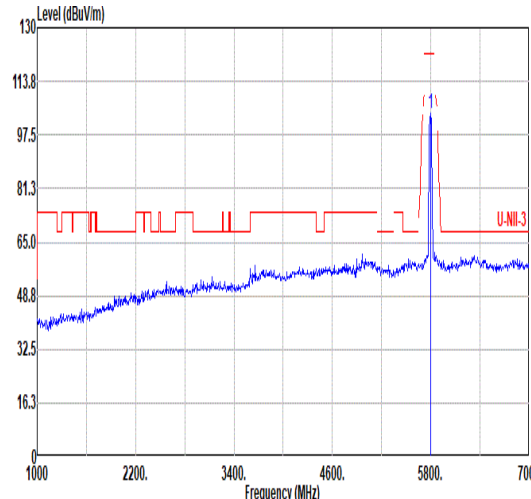
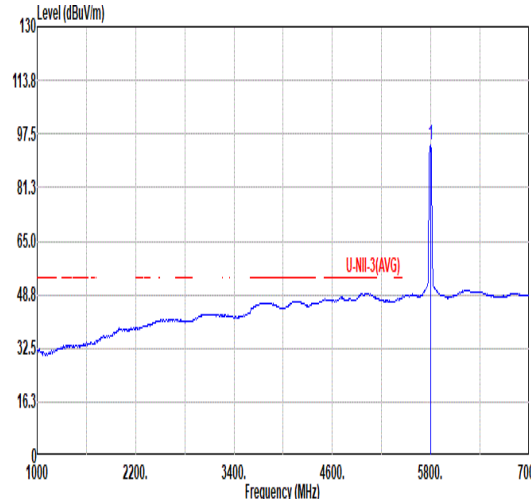


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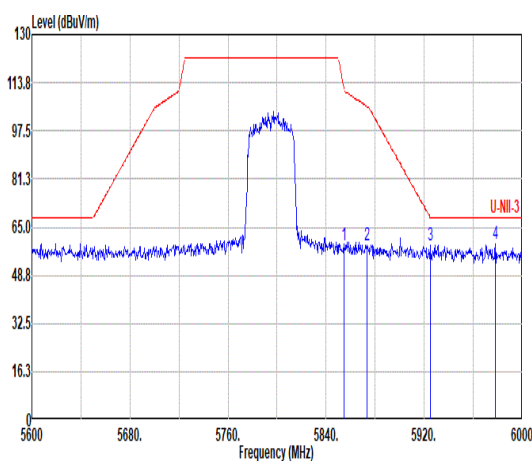


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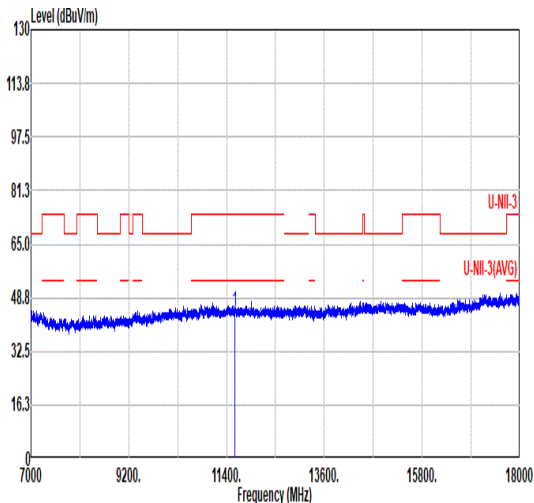
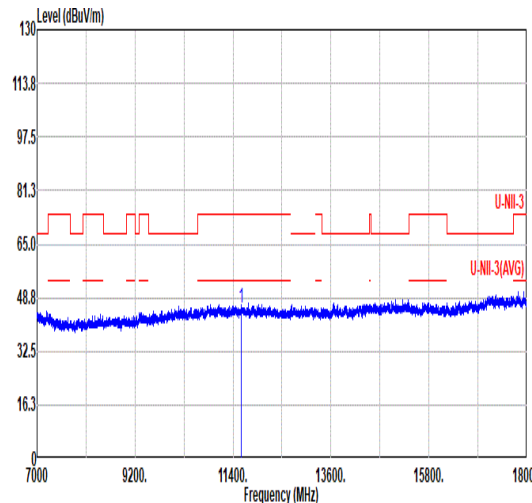


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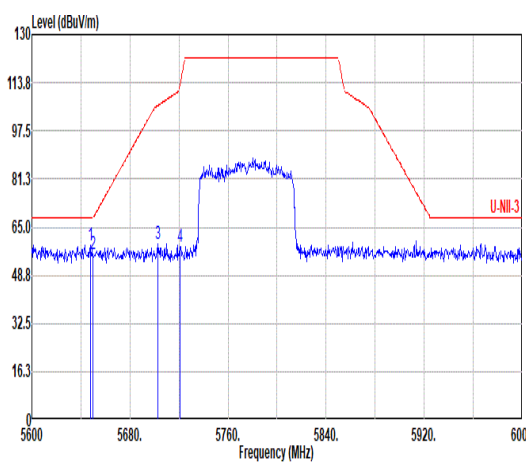
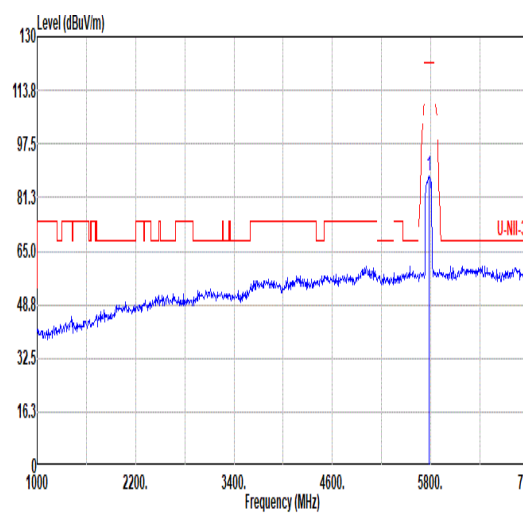
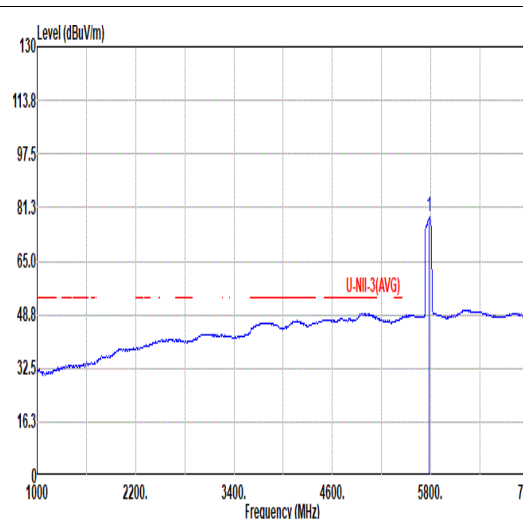


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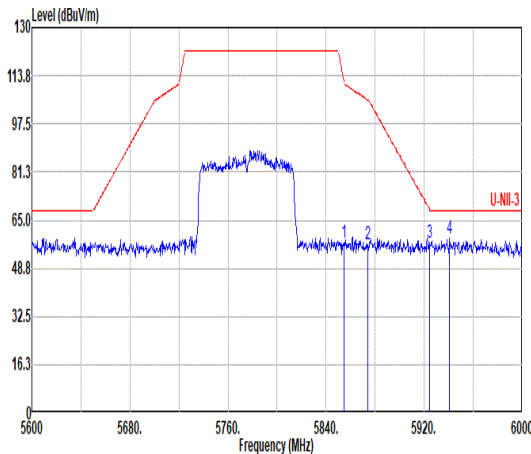


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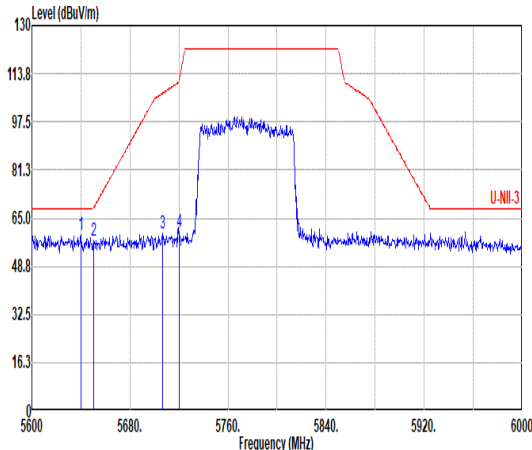
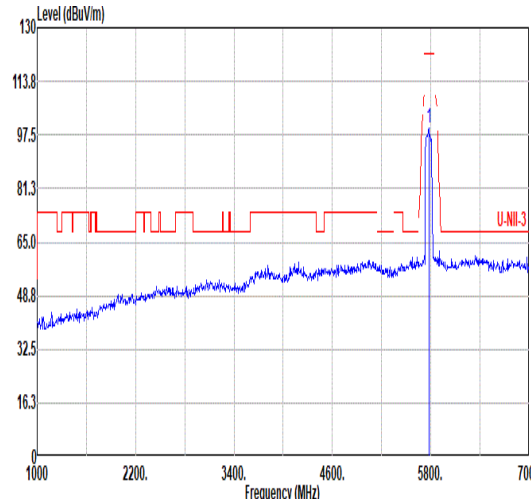
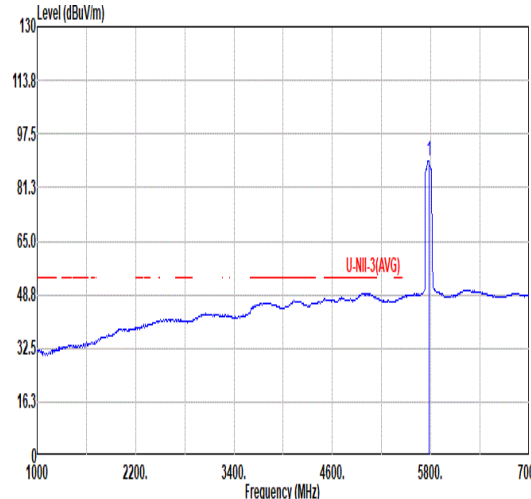


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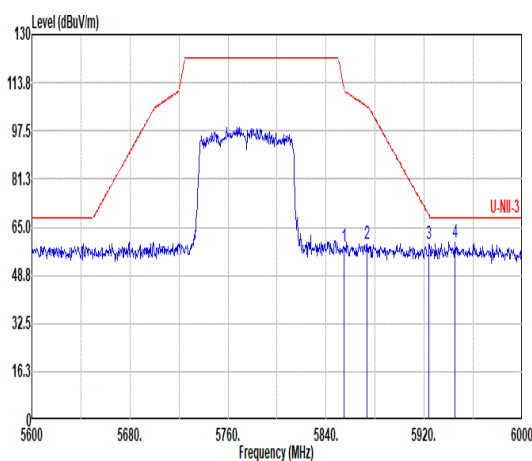


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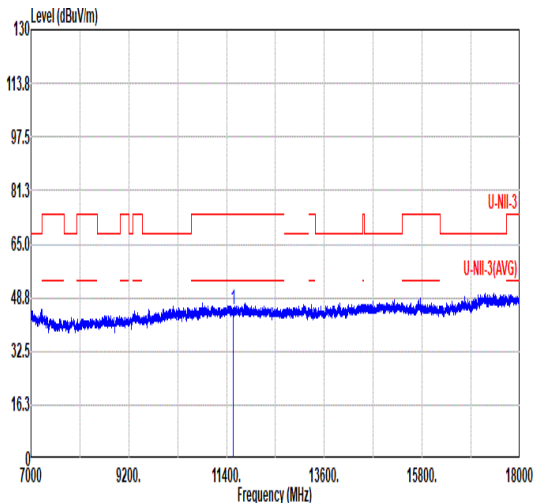
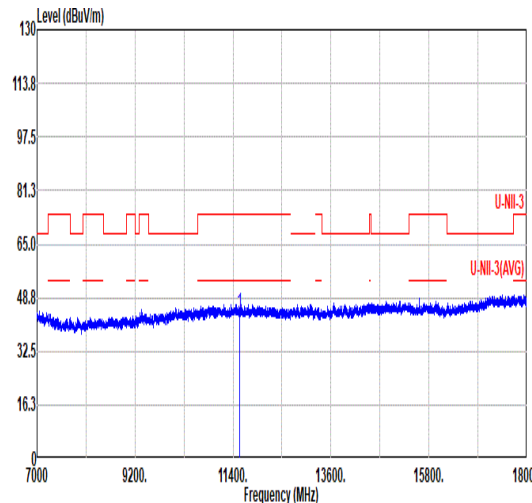


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							<table><thead><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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</th><th>deg</th></tr></thead><tbody><tr><td>1 5775.00</td><td>89.35</td><td>-----</td><td>-----</td><td>69.57</td><td>34.81</td><td>15.03</td><td>30.06</td><td>0.00</td><td>199</td><td>148 AVERAGE</td></tr></tbody></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1 5775.00	89.35	-----	-----	69.57	34.81	15.03	30.06	0.00	199	148 AVERAGE																																																																												
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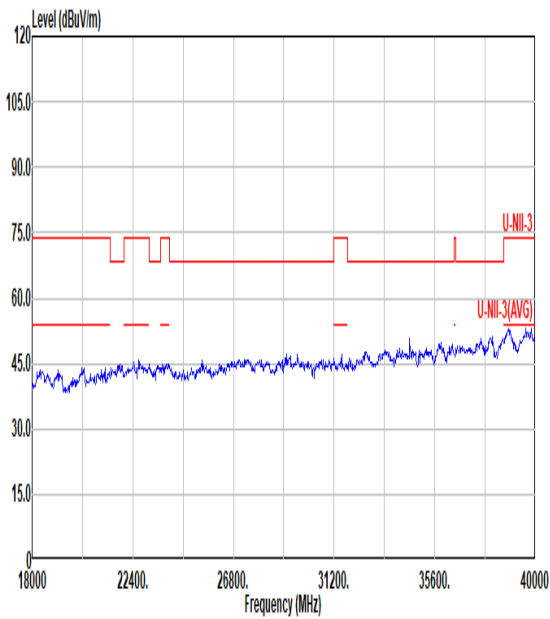
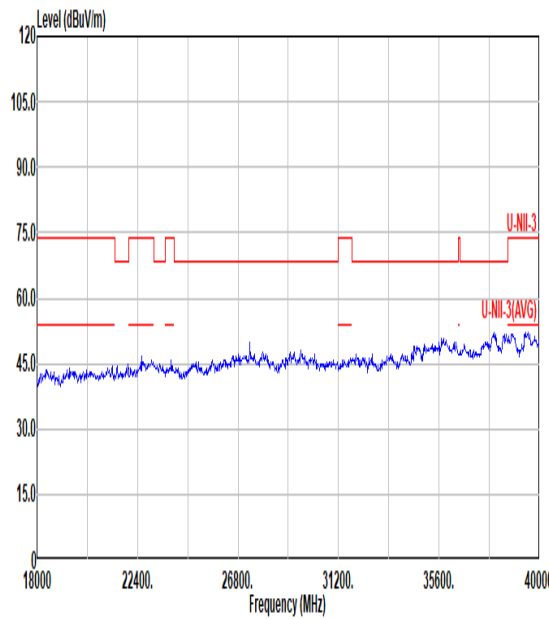


Mode	18																																																																											
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Pol.	Vertical	Fundamental																																																																										
Peak	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5854.40</td><td>58.23</td><td>112.27</td><td>-54.04</td><td>38.39</td><td>35.01</td><td>14.86</td><td>30.03</td><td>0.00</td><td>199</td><td>148</td><td>PEAK</td></tr><tr><td>2</td><td>5873.60</td><td>59.13</td><td>105.69</td><td>-46.56</td><td>39.37</td><td>35.05</td><td>14.75</td><td>30.04</td><td>0.00</td><td>199</td><td>148</td><td>PEAK</td></tr><tr><td>3</td><td>5924.00</td><td>59.59</td><td>68.94</td><td>-9.35</td><td>40.01</td><td>35.12</td><td>14.53</td><td>30.07</td><td>0.00</td><td>199</td><td>148</td><td>PEAK</td></tr><tr><td>4</td><td>5944.80</td><td>59.96</td><td>68.20</td><td>-8.24</td><td>40.44</td><td>35.14</td><td>14.47</td><td>30.09</td><td>0.00</td><td>199</td><td>148</td><td>PEAK</td></tr></table>		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	cm	deg	1	5854.40	58.23	112.27	-54.04	38.39	35.01	14.86	30.03	0.00	199	148	PEAK	2	5873.60	59.13	105.69	-46.56	39.37	35.05	14.75	30.04	0.00	199	148	PEAK	3	5924.00	59.59	68.94	-9.35	40.01	35.12	14.53	30.07	0.00	199	148	PEAK	4	5944.80	59.96	68.20	-8.24	40.44	35.14	14.47	30.09	0.00	199	148	PEAK	Blank
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																			
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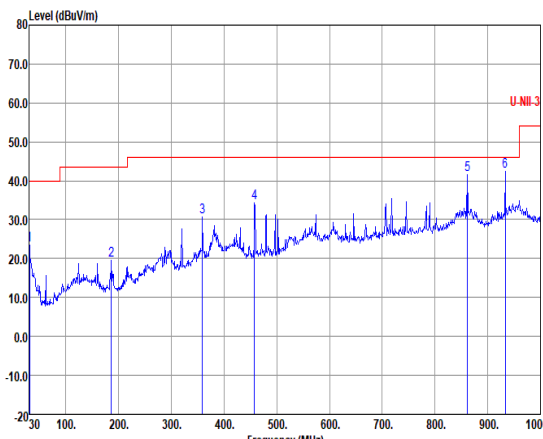
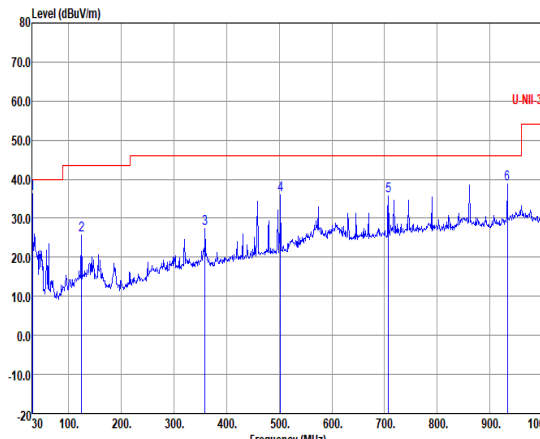


Mode	18																																																																																																									
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	U-NII-3_5.725-5.85_802.11ac VHT80_CH155_5775MHz																																																																																																									
ANT	SISO																																																																																																									
Pol.	Horizontal						Vertical																																																																																																			
Peak Avg																																																																																																										
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Mode	17	
	18G-40G	
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ANT	SISO	
Pol.	Horizontal	Vertical
Peak Avg		

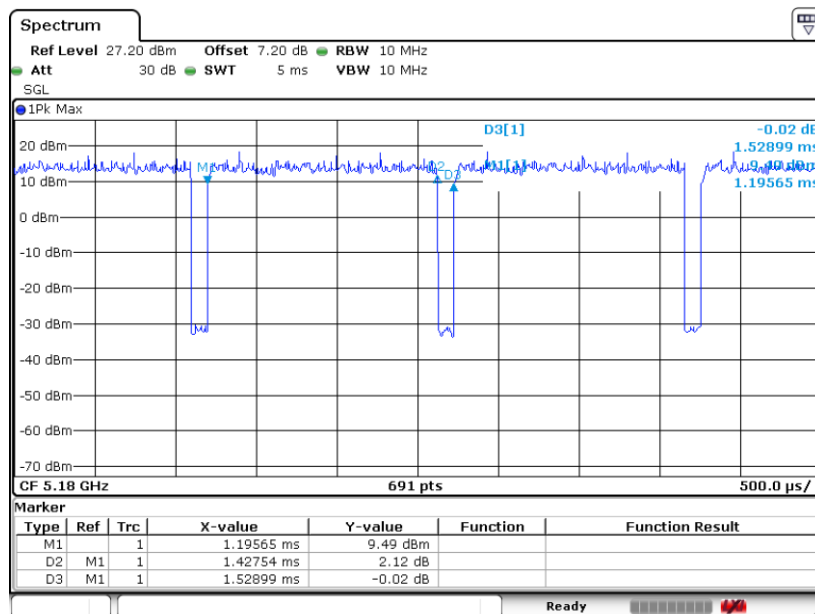


Mode	17																																																																																																							
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	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamplifier	A/Pos	T/Pos	Remark																																																																																														
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																														
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	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamplifier	A/Pos	T/Pos	Remark																																																																																														
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																														
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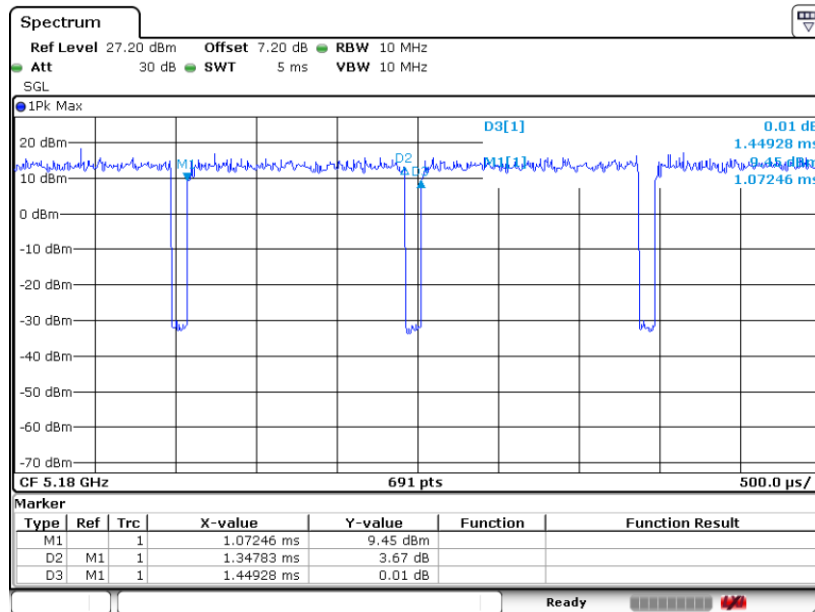
Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	93.36	1.428	0.701	0.75KHz
802.11ac VHT20	93.00	1.348	0.742	0.75KHz
802.11ac VHT40	86.79	0.667	1.500	1.5kHz
802.11ac VHT80	76.00	0.330	3.026	3.3kHz

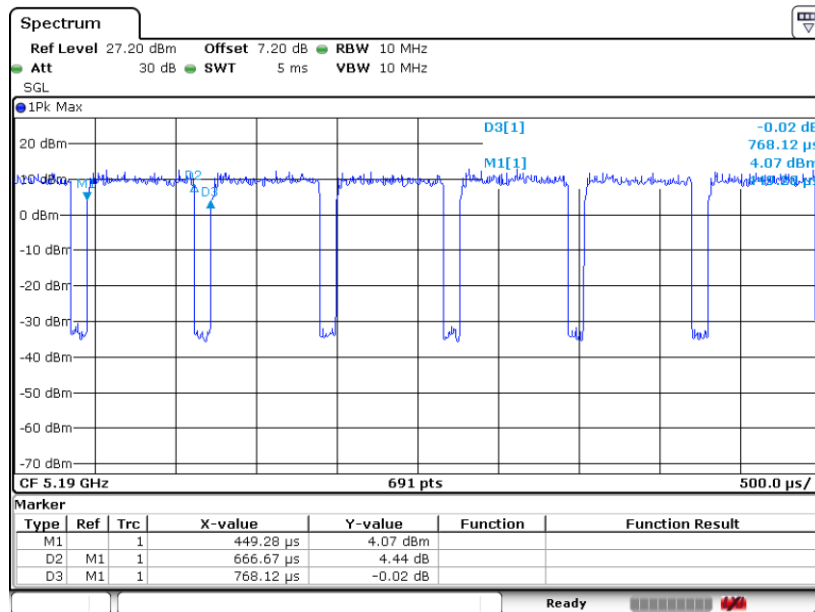
802.11a



802.11ac VHT20



802.11ac VHT40





802.11ac VHT80

