



FCC RF Test Report

APPLICANT : VeriFone, Inc.
EQUIPMENT : Point of Sale Terminal
BRAND NAME : Verifone or VERIFONE or verifone
MODEL NAME : M425-A
FCC ID : B32M4250A
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Nov. 17, 2024

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
FR481001-01E	Rev. 01	Initial issue of report	Dec. 11, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.2	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 5.28 dB at 7346.50 MHz
3.3	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Note :

This is a variant report for M425-A, the main difference between Model M450-A and M425-A is as below:

Model M450-A and M425-A are identical, except for enclosure shape, panel size and NFC Antenna. Use same main board, WiFi/BT module, antenna of WiFi/BT and NFC Chip IC.

According to the change, only the related test cases were verified from original report FR481001E.

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

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.2 Manufacturer

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Point of Sale Terminal
Brand Name	Verifone or VERIFONE or verifone
Model Name	M425-A
FCC ID	B32M4250A
SN Code	713-002-706
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Antenna Gain	<5180 MHz ~ 5240 MHz>:1.0 dBi <5260 MHz ~ 5320 MHz>:1.2 dBi <5500 MHz ~ 5720 MHz>:1.0 dBi <5745 MHz ~ 5825 MHz>:1.1 dBi
Antenna Type	IFA Antenna
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.
	03CH06-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH06-KS	AUDIX	E3	210616

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

- 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:, 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 (Z 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)
5260-5320 MHz 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)
5500-5720MHz 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)
5745-5825 MHz 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 in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.

2.2 Test Mode

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

SISO Mode

Modulation	Data Rate
802.11n HT40	MCS0

Remark : For Radiated Test Cases, The tests were performance with Notebook.

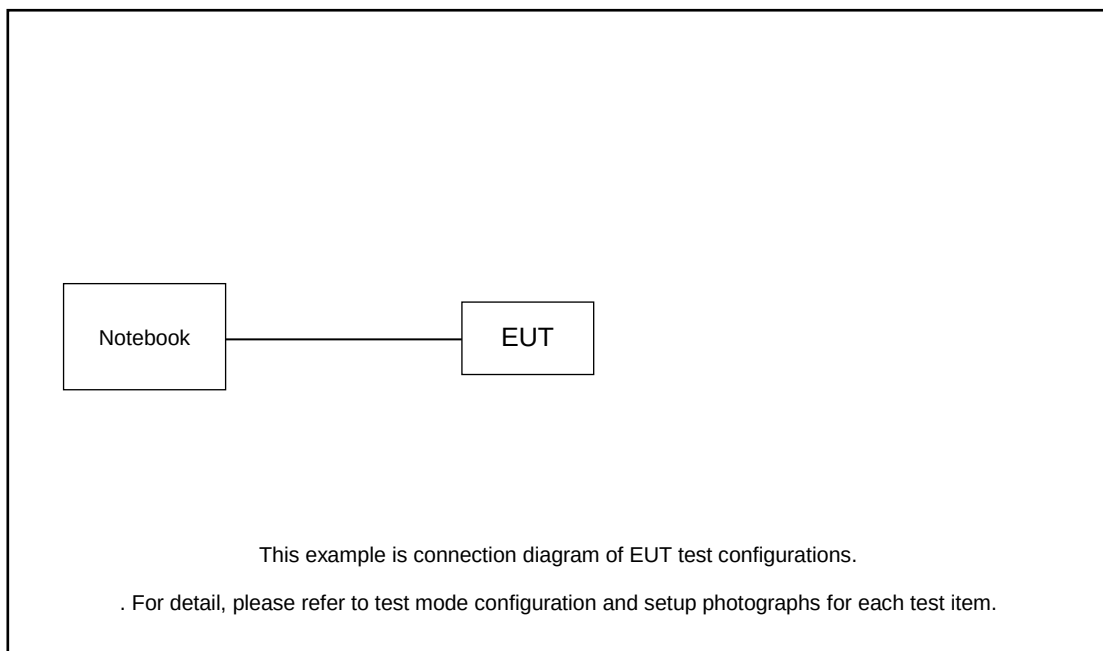


Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	-	-
Straddle		-	-	138	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	U Disk	SanDisk	SDCZ50-008G	N/A	N/A	N/A
3.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
4.	SD Card	N/A	N/A	N/A	N/A	N/A
5.	NFC Card	N/A	N/A	N/A	N/A	N/A
6.	MAG Card	N/A	N/A	N/A	N/A	N/A
7.	IC Card	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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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 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 log₁₀ B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, 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.

3.1.2 Measuring Instruments

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

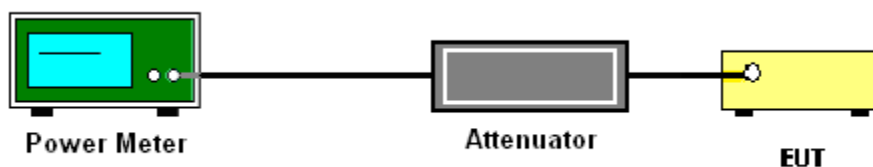
3.1.3 Test Procedures

The testing follows 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.

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

U-NII-3 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	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		Ant 1
11a	6Mbps	1	157	5785	0.08	16.65	30.00	1.10	Pass	17
HT20	MCS0	1	157	5785	0.08	16.48	30.00	1.10	Pass	17
HT40	MCS0	1	159	5795	0.16	16.19	30.00	1.10	Pass	16
VHT20	MCS0	1	157	5785	0.08	15.75	30.00	1.10	Pass	16
VHT40	MCS0	1	159	5795	0.16	15.08	30.00	1.10	Pass	15
VHT80	MCS0	1	155	5775	0.30	13.73	30.00	1.10	Pass	14



3.2 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.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

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

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

- (2) 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.

$$\text{EIRP} = E_{\text{Meas}} + 20\log (d_{\text{Meas}}) - 104.7$$

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

3.2.2 Measuring Instruments

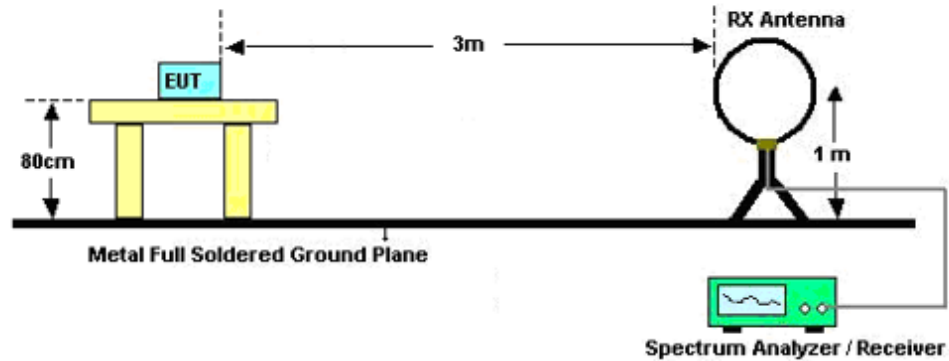
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

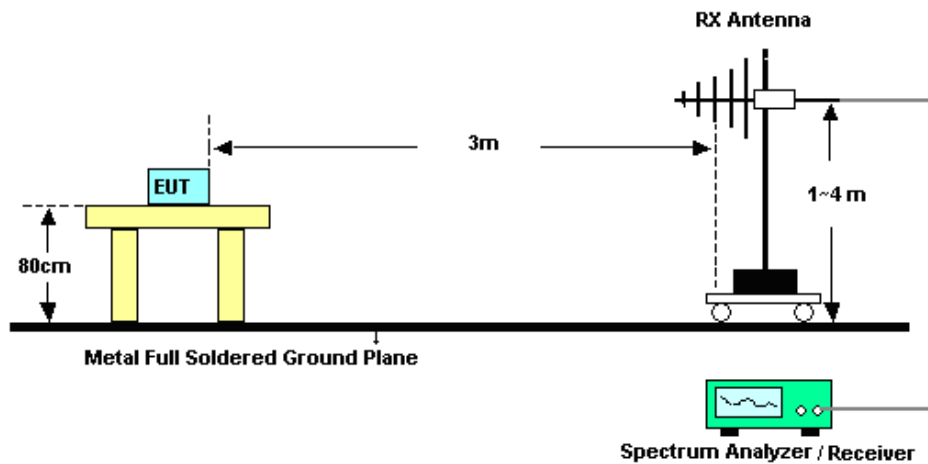
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 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.
 - 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.

3.2.4 Test Setup

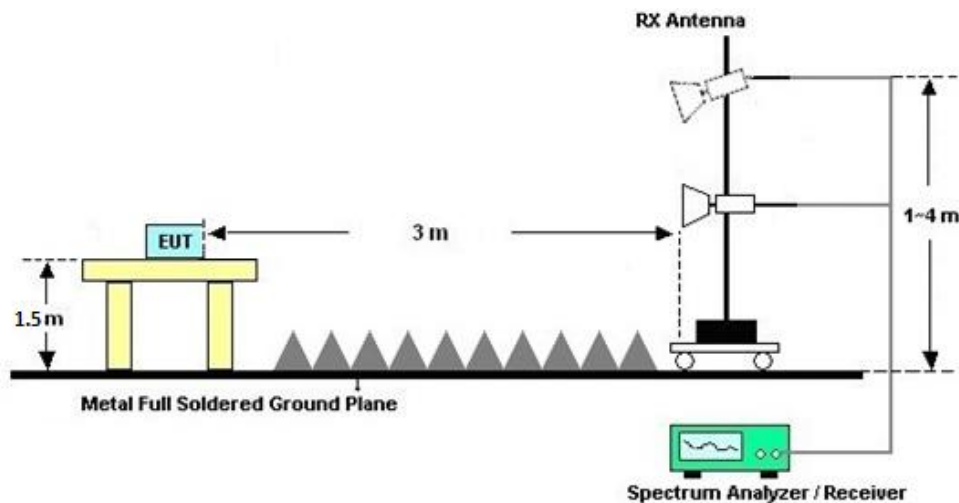
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.2.7 Duty Cycle

Please refer to Appendix B.

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

Please refer to Appendix A.



3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 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
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 04, 2024	Nov. 17, 2024	Jul. 03, 2025	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Nov. 17, 2024	Sep. 07, 2025	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Sep. 03, 2024	Nov. 17, 2024	Sep. 02, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 11, 2024	Nov. 17, 2024	Apr. 10, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Nov. 17, 2024	Jan. 05, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	372171	9KHz ~1GHZ	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 02, 2024	Nov. 17, 2024	Jan. 01, 2025	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5G Hz	Oct. 09, 2024	Nov. 17, 2024	Oct. 08, 2025	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 17, 2024	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 17, 2024	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 17, 2024	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

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

Conducted Power	± 0.50 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.06dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.18dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.38dB
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----- THE END -----



Appendix A Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	51~53%
		Temperature :	25.2~26.5°C

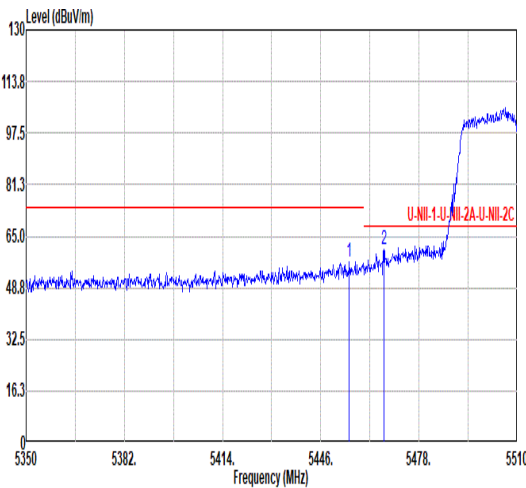
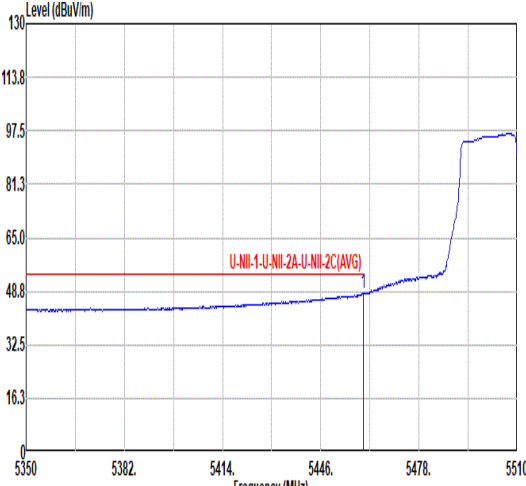
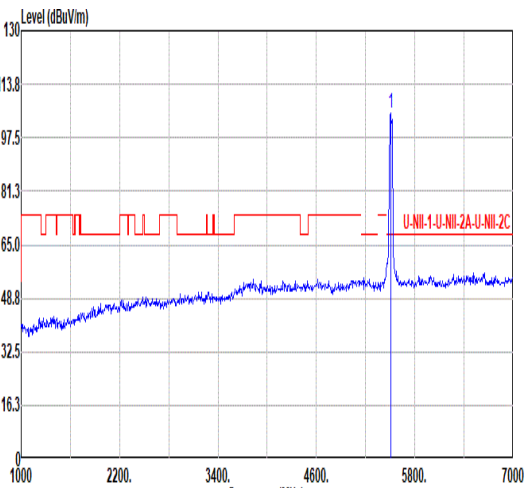
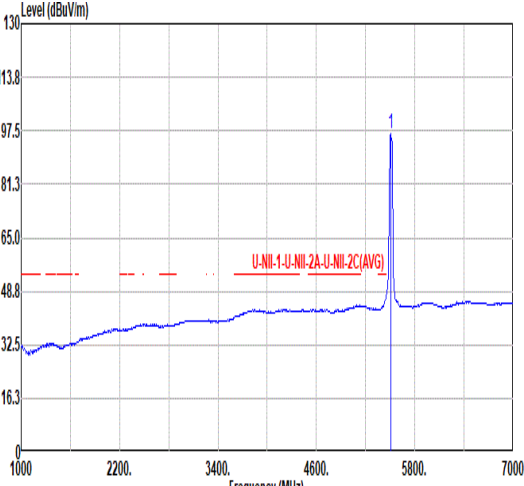
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-2C	5.47-5.725	802.11n HT40	102	5510	MCS0	-	-

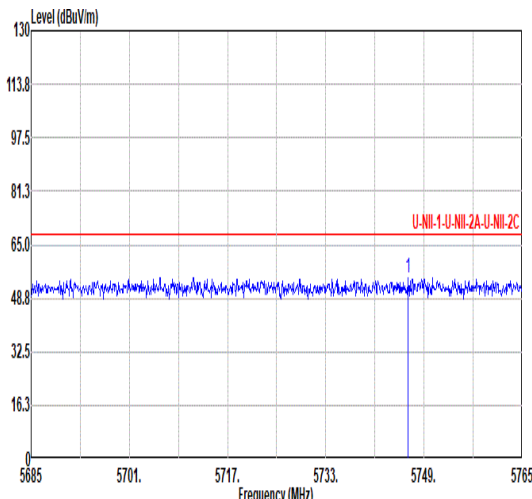
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11n HT40	102	5459.76	48.00	54.00	-6.00	H	AVERAGE	Pass	Band Edge
	802.11n HT40	102	7346.50	48.72	54.00	-5.28	H	Average	Pass	Harmonic

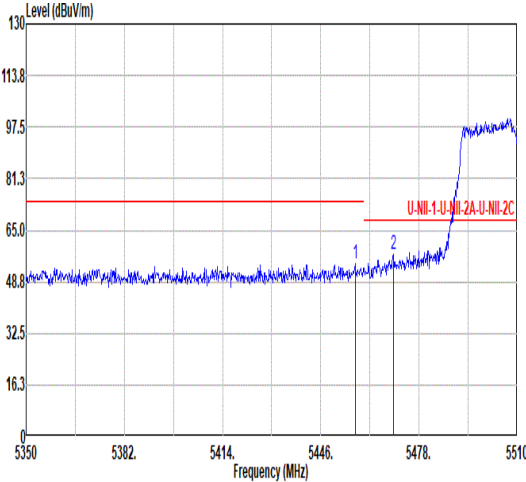
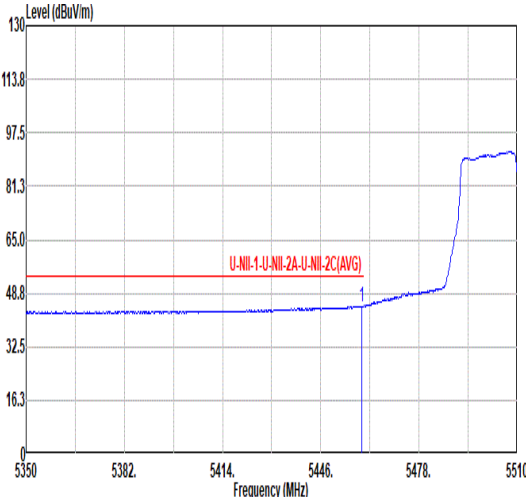
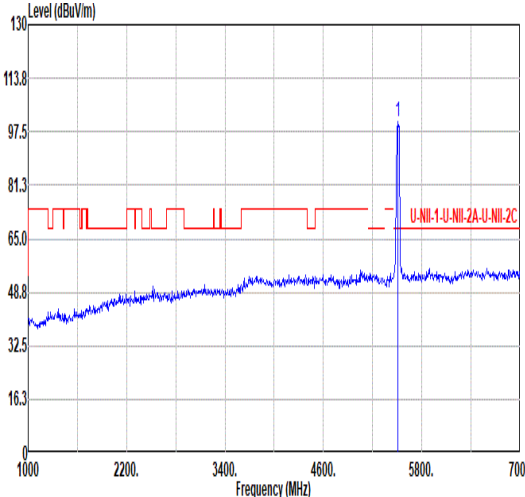
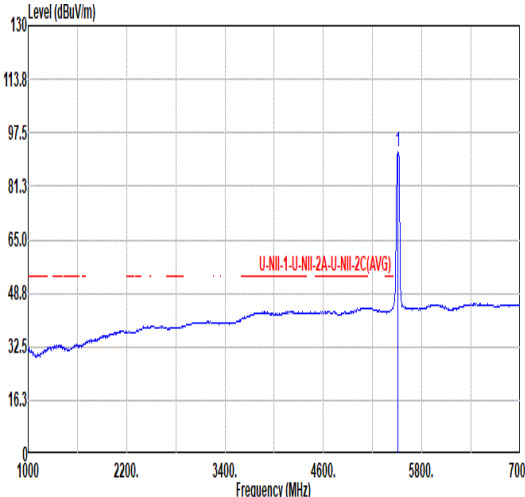


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ANT	-																																																							
Pol.	Horizontal																																																							
Peak	Fundamental																																																							
																																																								
		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	5455.28	57.01	74.00	-16.99	43.93	34.79	10.02	31.73	0.00	104	261 PEAK	2	5466.48	60.84	68.20	-7.36	47.75	34.77	10.04	31.72	0.00	104
	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	5455.28	57.01	74.00	-16.99	43.93	34.79	10.02	31.73	0.00	104	261 PEAK																																													
2	5466.48	60.84	68.20	-7.36	47.75	34.77	10.04	31.72	0.00	104	261 PEAK																																													
Avg																																																								
		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	5459.76	48.00	54.00	-6.00	34.92	34.78	10.03	31.73	0.00	104	261 AVERAGE											
		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	5459.76	48.00	54.00	-6.00	34.92	34.78	10.03	31.73	0.00	104	261 AVERAGE																																													
Peak																																																								
		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	5510.00	104.99	-----	-----	91.90	34.69	10.10	31.70	0.00	104	261 PEAK											
		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	5510.00	104.99	-----	-----	91.90	34.69	10.10	31.70	0.00	104	261 PEAK																																													
Avg																																																								
		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	5510.00	96.55	-----	-----	83.46	34.69	10.10	31.70	0.00	104	261 AVERAGE											
		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	5510.00	96.55	-----	-----	83.46	34.69	10.10	31.70	0.00	104	261 AVERAGE																																													

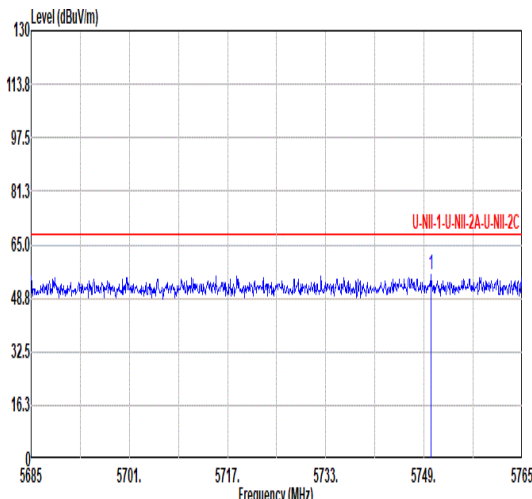


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Pol.	Horizontal						Fundamental																																																	
Peak	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><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>5746.44</td><td>55.01</td><td>68.20</td><td>-13.19</td><td>41.94</td><td>34.60</td><td>10.36</td><td>31.89</td><td>0.00</td><td>104</td><td>261</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	5746.44	55.01	68.20	-13.19	41.94	34.60	10.36	31.89	0.00	104	261	PEAK	Blank					
	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																																														
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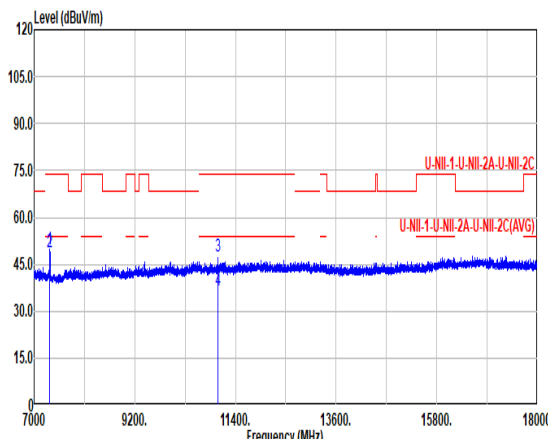
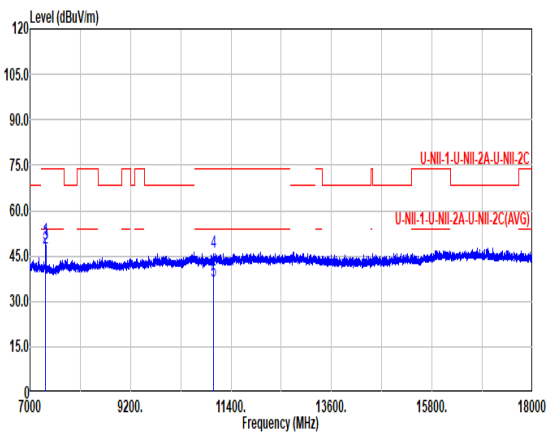


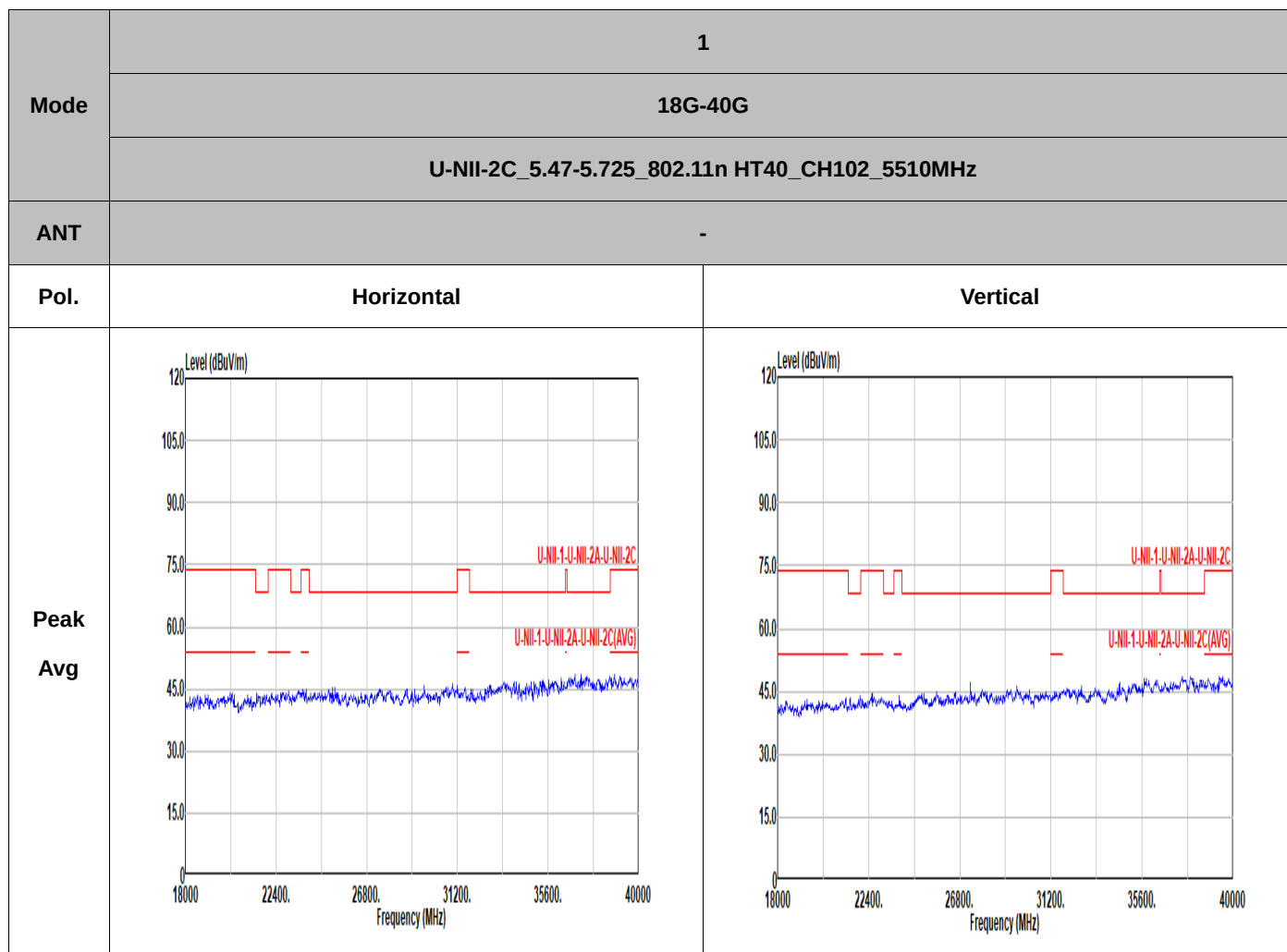
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5457.20	54.28	74.00	-19.72	41.20	34.79	10.02	31.73	0.00	100	85 PEAK	2	5469.68	57.63	68.20	-10.57	44.55	34.76	10.04	31.72	0.00	100
	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	5457.20	54.28	74.00	-19.72	41.20	34.79	10.02	31.73	0.00	100	85 PEAK																																													
2	5469.68	57.63	68.20	-10.57	44.55	34.76	10.04	31.72	0.00	100	85 PEAK																																													
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		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	5459.28	44.88	54.00	-9.12	31.80	34.78	10.03	31.73	0.00	100	85 AVERAGE											
		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	5459.28	44.88	54.00	-9.12	31.80	34.78	10.03	31.73	0.00	100	85 AVERAGE																																													
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		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	5510.00	100.79	-----	-----	87.70	34.68	10.11	31.70	0.00	100	85 PEAK											
		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	5510.00	100.79	-----	-----	87.70	34.68	10.11	31.70	0.00	100	85 PEAK																																													
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		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	5510.00	91.54	-----	-----	78.45	34.68	10.11	31.70	0.00	100	85 AVERAGE											
		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	5510.00	91.54	-----	-----	78.45	34.68	10.11	31.70	0.00	100	85 AVERAGE																																													



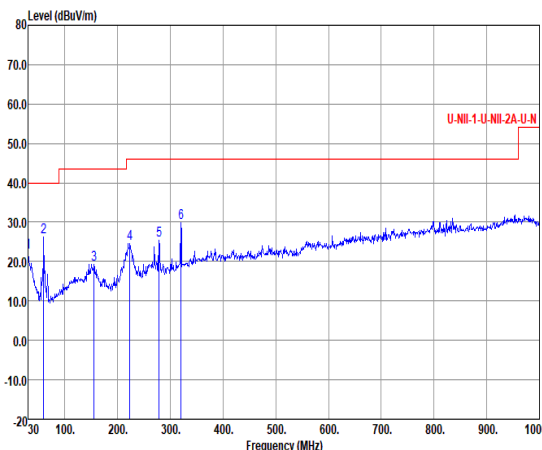
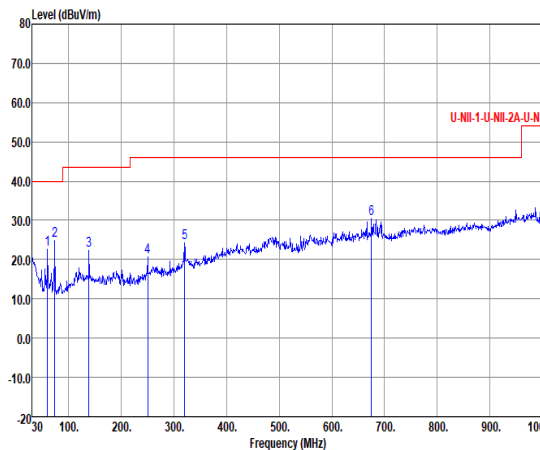
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Pol.	Vertical	Fundamental																																												
Peak	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><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>5750.20</td><td>56.08</td><td>68.20</td><td>-12.12</td><td>43.02</td><td>34.60</td><td>10.36</td><td>31.90</td><td>0.00</td><td>100</td><td>85</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	5750.20	56.08	68.20	-12.12	43.02	34.60	10.36	31.90	0.00	100	85	PEAK	Blank
	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	5750.20	56.08	68.20	-12.12	43.02	34.60	10.36	31.90	0.00	100	85	PEAK																																		



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Pol.	Horizontal																																																																																																						
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																													
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																													
1	7346.50	49.74	74.00	-24.26	63.15	35.70	11.70	60.81	0.00	100	190 Peak																																																																																												
2	7346.50	48.72	54.00	-5.28	62.13	35.70	11.70	60.81	0.00	100	190 Average																																																																																												
3	11020.00	47.52	74.00	-26.48	56.16	38.00	14.58	61.22	0.00	100	0 PEAK																																																																																												
4	11020.00	36.64	54.00	-17.36	45.27	38.00	14.59	61.22	0.00	100	0 AVERAGE																																																																																												
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																													
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																													
1	7344.83	50.19	74.00	-23.81	63.59	35.70	11.70	60.80	0.00	300	0 PEAK																																																																																												
2	7344.83	47.57	54.00	-6.43	60.97	35.70	11.70	60.80	0.00	300	0 AVERAGE																																																																																												
3	7346.50	48.87	74.00	-25.13	62.28	35.70	11.70	60.81	0.00	300	360 Peak																																																																																												
4	11020.00	46.19	74.00	-27.81	54.83	38.00	14.58	61.22	0.00	300	0 PEAK																																																																																												
5	11020.00	36.65	54.00	-17.35	45.30	38.00	14.57	61.22	0.00	300	0 AVERAGE																																																																																												





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	<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</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>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.00</td><td>22.40</td><td>40.00</td><td>-17.60</td><td>29.41</td><td>25.56</td><td>0.45</td><td>33.02</td><td>0.00</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>60.07</td><td>26.37</td><td>40.00</td><td>-13.63</td><td>46.50</td><td>11.93</td><td>0.84</td><td>32.90</td><td>0.00</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>155.13</td><td>19.39</td><td>43.50</td><td>-24.11</td><td>33.80</td><td>16.76</td><td>1.66</td><td>32.83</td><td>0.00</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>223.03</td><td>24.62</td><td>46.00</td><td>-21.38</td><td>39.80</td><td>15.61</td><td>2.02</td><td>32.81</td><td>0.00</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>278.32</td><td>25.39</td><td>46.00</td><td>-20.61</td><td>37.05</td><td>18.88</td><td>2.25</td><td>32.79</td><td>0.00</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>320.03</td><td>29.74</td><td>46.00</td><td>-16.26</td><td>40.63</td><td>19.55</td><td>2.41</td><td>32.85</td><td>0.00</td><td>---</td><td>Peak</td></tr></table>													Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	30.00	22.40	40.00	-17.60	29.41	25.56	0.45	33.02	0.00	---	Peak	2	60.07	26.37	40.00	-13.63	46.50	11.93	0.84	32.90	0.00	---	Peak	3	155.13	19.39	43.50	-24.11	33.80	16.76	1.66	32.83	0.00	---	Peak	4	223.03	24.62	46.00	-21.38	39.80	15.61	2.02	32.81	0.00	---	Peak	5	278.32	25.39	46.00	-20.61	37.05	18.88	2.25	32.79	0.00	---	Peak	6	320.03	29.74	46.00	-16.26	40.63	19.55	2.41	32.85	0.00	---	Peak
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Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11n HT40	96.22	0.941	1.063	1.1KHz

802.11n HT40

