

Report No.: FR932719-01AA

FCC RADIO TEST REPORT

FCC ID

: QZEMPWAPUS

Equipment

: Rocket

Brand Name

: Juniper

Model Name

: SRX-MP-WLAN-US, SRX-MP-WLAN-IL, SRX-MP-WLAN-WW

Applicant

: Juniper Networks, Inc.

1133 Innovation Way Sunnyvale CA United States 94089

USA

Manufacturer

: Accton Technology Corporation

No. 1, Creation Rd. III, Science-based Industrial Park,

Hsinchu, Taiwan, R.O.C.

Standard

: 47 CFR FCC Part 15.247

The product was received on Mar. 27, 2019, and testing was started from Mar. 28, 2019 and completed on Jul. 30, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-656-9065

FAX: 886-3-656-9085

Report Template No.: CB Ver1.0

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: Sep. 02, 2019

Report Version : 02

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Photographs of EUT v01

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History of this test report

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Report No.	Version	Description	Issued Date
FR932719-01AA	01	Initial issue of report	Aug. 12, 2019
FR932719-01AA	02	Changing the Applicant address to "1133 Innovation Way Sunnyvale CA United States 94089 USA" from "1194 North Mathilda Avenue Sunnyvale, California 94089-1206 USA"	Sep. 02, 2019

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark	
1.1.2	15.203	Antenna Requirement	PASS	-	
3.1	15.207	AC Power-line Conducted Emissions	PASS	-	
3.2	15.247(a)	DTS Bandwidth	PASS	-	
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-	
3.4	15.247(e)	Power Spectral Density	PASS	-	
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-	
3.6	15.247(d)	Emissions in Restricted Frequency Bands PASS -			
Note: Refe	erence to Spor	ton Project No.: 932719.	•		

Note. Reference to Sporton Froject No.: 9327 18

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

- 1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
- 2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang

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1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number	
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]	
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	

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Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Туре	Connector	Ante Gain		Los Exte			Gain Bi)
						2.4G	5G	2.4G	5G	2.4G	5G
1	1	MAG.	EDA-1713-25G	Dinala	Dayaraad CMA	F	<i>F F</i>	0.74	1 10	4.76	4.22
'	1	LAYERS	R2-A3	Dipole	Reversed-SMA	5.5	5.5	0.74	1.18	4.76	4.32
2	2	MAG.	EDA-1713-25G	Dipolo	Reversed-SMA	5.5	5.5	0.74	1.18	4.76	4.32
	2	LAYERS	R2-A3	Dipole	Reversed-SIVIA	ა.5	ა.5	0.74	1.10	4.70	4.32

Note 1: The above information was declared by manufacturer.

Note 2: The EUT has two antennas. (2TX, 2RX)

Port 1 and Port 2 could transmit/receive simultaneously.

Note 3: There are two modes of EUT for Radiated and RF Conducted above 1GHz tests, one is "EUT + Antenna cable + Antenna", the other is "EUT + Antenna".

Only the higher gain mode "EUT + Antenna" was tested and recorded in the report.

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1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.994	0.026	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.963	0.164	2.075m	1k
802.11n HT20	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	0.968	0.141	2.445m	1k

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1.1.4 EUT Operational Condition

EUT Power Type	Fro	From host system				
Beamforming Function		☐ With beamforming ☐ Without beamforming				
Function	✓ Point-to-multipoint ☐ Point-to-point					
Test Software Version	QC.	QCA Radio Control Toolkit v3.0.233.0				

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The EUT has three model names which are identical to each other in all aspects except for the following table:

	T
Model Name	Description
SRX-MP-WLAN-US	
SRX-MP-WLAN-IL	There is nothing different of three models, just for different marketing use.
SRX-MP-WLAN-WW	

From the above models, model: SRX-MP-WLAN-US was selected as representative model for the test and its data was recorded in this report.

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1.2 Testing Applied Standards

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

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- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

	Testing Location							
	HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)							
		TEL	:	886-3-327-3456 FAX : 886-3-327-0973				
\boxtimes	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.				
		TEL	:	886-3-656-9065 FAX : 886-3-656-9085				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Ekko Hsieh	21~23℃ / 54~56%	Ap r. 06, 2019~May 21, 2019
Radiated (others test)	03CH01-CB	Ekko Hsieh	22~24℃ / 47~64%	Mar. 28, 2019 ~May 13, 2019
Radiated (co-location)	03CH01-CB	Ekko Hsieh	22~24℃ / 47~64%	Jul. 30, 2019
AC Conduction	CO01-CB	Ryo Fan	21.4~22.3℃ / 56~59%	Apr. 18, 2019

Test site Designation No. TW0006 with FCC.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%

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Test site registered number IC 4086B with Industry Canada.

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19.5
2437MHz	20
2462MHz	18
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15.5
2417MHz	18
2437MHz	19
2457MHz	16.5
2462MHz	13
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	15.5
2417MHz	18.5
2437MHz	19
2457MHz	16
2462MHz	13.5
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	13.5
2437MHz	14
2452MHz	12

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2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests		
Tests Item AC power-line conducted emissions		
Condition AC power-line conducted measurement for line and neutral		
Operating Mode CTX		
1	EUT + Antenna cable + Antenna / WLAN 2.4GHz	
2	EUT + Antenna cable + Antenna / WLAN 5GHz	
3	EUT + Antenna / WLAN 2.4GHz	
4	EUT + Antenna / WLAN 5GHz	
For operating mode 3 is the worst case and it was record in this test report.		

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The Worst Case Mode for Following Conformance Tests		
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands	
Test Condition	Conducted measurement at transmit chains.	
Operating Mode	СТХ	
1	EUT + Antenna	

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The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in regardless of spatial multiplexing MIMO configuration), the radiated test so be performed with highest antenna gain of each antenna type.			
Operating Mode < 1GHz	CTX		
test, and the worst case wa	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands test, and the worst case was found at Z axis for Emissions in Restricted Frequency Bands above 1GHz test. So the measurement will follow this same test configuration.		
1 EUT in Z axis + Antenna cable + Antenna / WLAN 2.4GHz			
2	EUT in Z axis + Antenna cable + Antenna / WLAN 5GHz		
3	EUT in Z axis + Antenna / WLAN 2.4GHz		
4	EUT in Z axis + Antenna / WLAN 5GHz		
For operating mode 2 is the worst case and it was record in this test report.			
Operating Mode > 1GHz CTX			
The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Ban test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.			
1	EUT in Z axis + Antenna		

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The Worst Case Mode for Following Conformance Tests		
Tests Item Simultaneous Transmission Analysis - Radiated Emission Co-location		
Test Condition	Radiated measurement	
Operating Mode	Normal Link	
1	WLAN 2.4GHz+ WLAN 5GHz	
Refer to Appendix G for Radiated Emission Co-location.		

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

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2.5 Support Equipment

For AC Conduction:

	Support Equipment			
No.	No. Equipment Brand Name Model Name FCC ID			
Α	LAN NB	DELL	E6430	N/A
В	Fixture	Accton	142000001732A	N/A

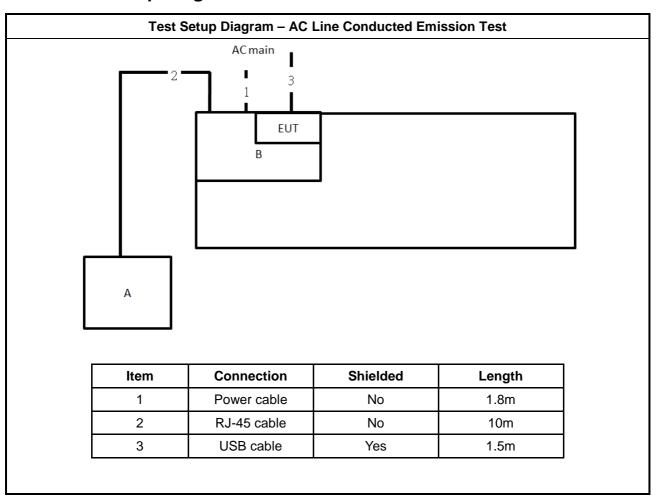
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For Radiated and RF Conducted:

	Support Equipment			
No.	Equipment	Brand Name	Model Name	FCC ID
Α	NB	DELL	E4300	N/A
В	Fixture	Accton	142000001732A	N/A

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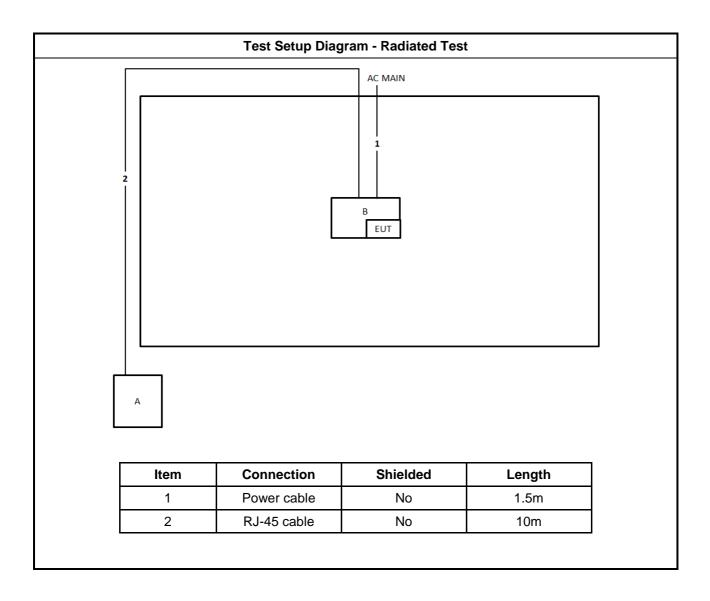
2.6 Test Setup Diagram



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		Limit	
Frequency Emission (MHz) Quasi-Peak Average			
0.15-0.5	66 - 56 *	56 - 46 *	
0.5-5	56	46	
5-30	60	50	
Note 1: * Decreases with the logarithm of the frequency.			

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3.1.2 Measuring Instruments

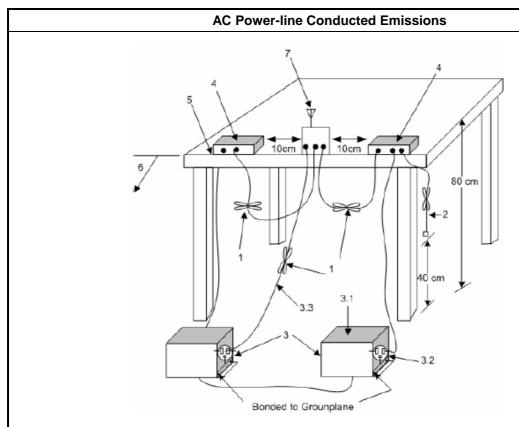
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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3.1.4 Test Setup



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.

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- 2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
- 3.1—All other equipment powered from additional LISN(s).
- 3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
- 3.3—LISN at least 80 cm from nearest part of EUT chassis.
- 4—Non-EUT components of EUT system being tested.
- 5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
- 6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
- 7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

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3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
■ 6 dB bandwidth ≥ 500 kHz.

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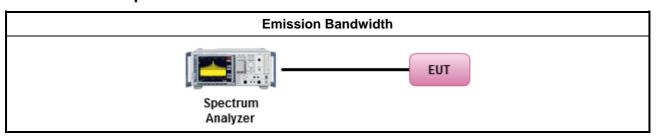
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

		Test Method
•	For	the emission bandwidth shall be measured using one of the options below:
	\boxtimes	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
		Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
		Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

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3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit ■ If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W) ■ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm ■ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm ■ Smart antenna system (SAS): - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm $P_{Out} =$ maximum peak conducted output power or maximum conducted output power in dBm, $G_{TX} =$ the maximum transmitting antenna directional gain in dBi.

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3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

	Test Method
•	Maximum Peak Conducted Output Power
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
•	Maximum Conducted Output Power
	[duty cycle ≥ 98% or external video / power trigger]
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).

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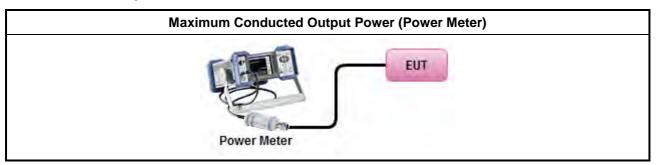
For conducted measurement.

If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.

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If multiple transmit chains, EIRP calculation could be following as methods: P_{total} = P₁ + P₂ +... + P_n (calculated in linear unit [mW] and transfer to log unit [dBm]) EIRP_{total} = P_{total} + DG

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

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3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit ■ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

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3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

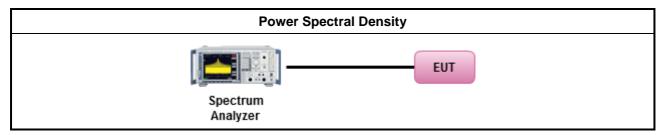
		Test Method				
•	outp the c cond of th	k power spectral density procedures that the same method as used to determine the conducted ut power. If maximum peak conducted output power was measured to demonstrate compliance to putput power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum ducted output power was measured to demonstrate compliance to the output power limit, then one average PSD procedures shall be used, as applicable based on the following criteria (the peak procedure is also an acceptable option).				
	\boxtimes	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD.				
	[duty	/ cycle ≥ 98% or external video / power trigger]				
		Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.				
		Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.				
		Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3.				
	duty	cycle < 98% and average over on/off periods with duty factor				
 □ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative). □ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative) 						
•	For	conducted measurement.				
	•	If The EUT supports multiple transmit chains using options given below:				
		Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.				
		Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,				

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Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

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3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

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3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit					
RF output power procedure	Limit (dBc)				
Peak output power procedure	20				
Average output power procedure	30				

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- Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.
- Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

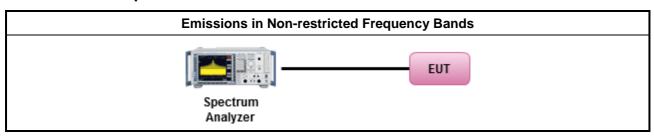
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
 Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands. 	

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

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3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit									
Frequency Range (MHz) Field Strength (uV/m) Field Strength (dBuV/m) Measure Dista									
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300						
0.490~1.705	24000/F(kHz)	33.8 - 23	30						
1.705~30.0	30	29	30						
30~88	100	40	3						
88~216	150	43.5	3						
216~960	200	46	3						
Above 960	500	54	3						

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- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
- Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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3.6.3 Test Procedures

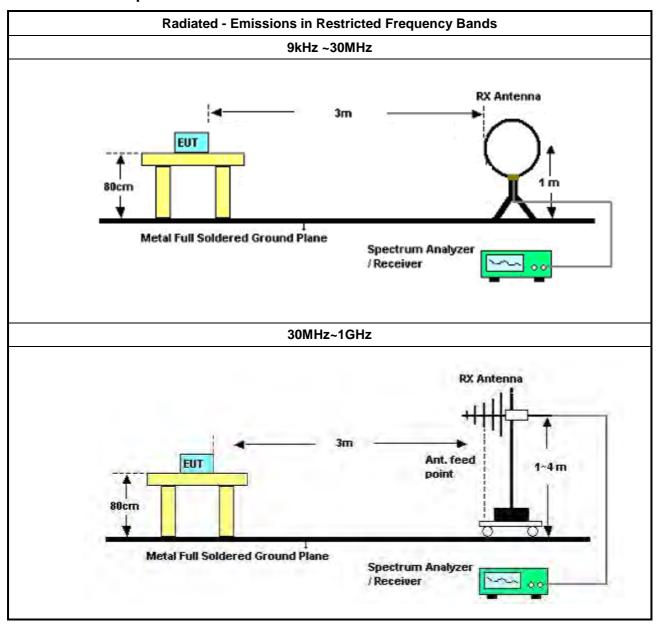
		Test Method								
•	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].								
•	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.									
•	For the transmitter unwanted emissions shall be measured using following options below:									
	•	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.								
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).								
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).								
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).								
		Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.								
	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.									
		Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.								
•	For	the transmitter band-edge emissions shall be measured using following options below:								
	•	Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.								
	•	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.								
	•	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).								
	 For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB 									
	 For FCC KDB 662911 The methodology described here may overestimate array gain, ther resulting in apparent failures to satisfy the out-of-band limits even if the device is actu compliant. In such cases, compliance may be demonstrated by performing radiated tests aro the frequencies at which the apparent failures occurred. 									

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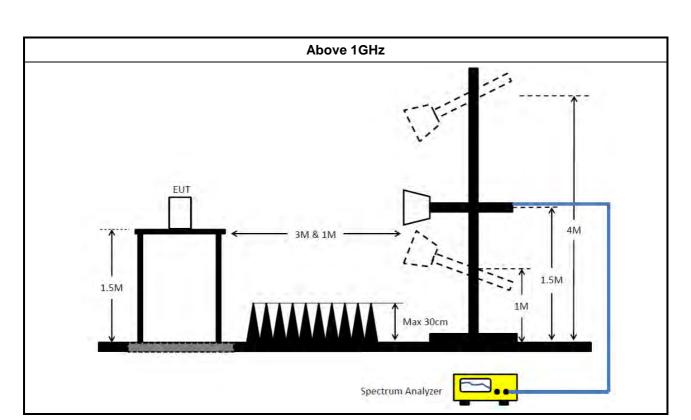
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3.6.4 Test Setup



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3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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4 Test Equipment and Calibration Data

							I
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50 -16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	150kHz ~ 30MHz	May 22, 2018	May 21, 2019	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 15, 2019	Mar. 14, 2020	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA917025 2	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA917025 2	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	Jun. 13, 2018	Jun. 12, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35- HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35- HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)

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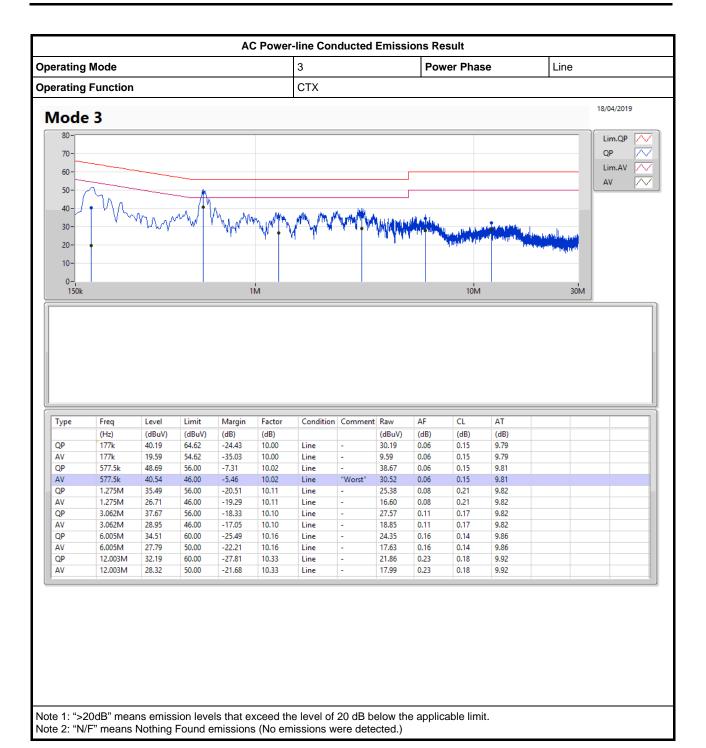
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

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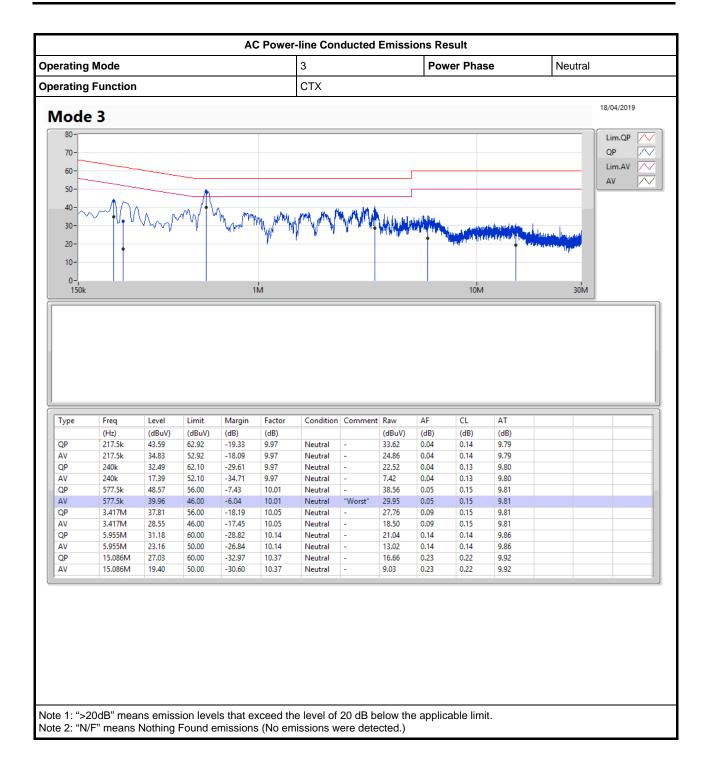
Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

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AC Power-line Conducted Emissions Result





EBW Result Appendix B

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.075M	14.293M	14M3G1D	8.525M	13.168M
802.11g_Nss1,(6Mbps)_2TX	16.325M	20.34M	20M3D1D	16.275M	16.467M
802.11n HT20_Nss1,(MCS0)_2TX	17.6M	21.214M	21M2D1D	17.55M	17.691M
802.11n HT40_Nss1,(MCS0)_2TX	36.35M	36.432M	36M4D1D	35.65M	36.182M

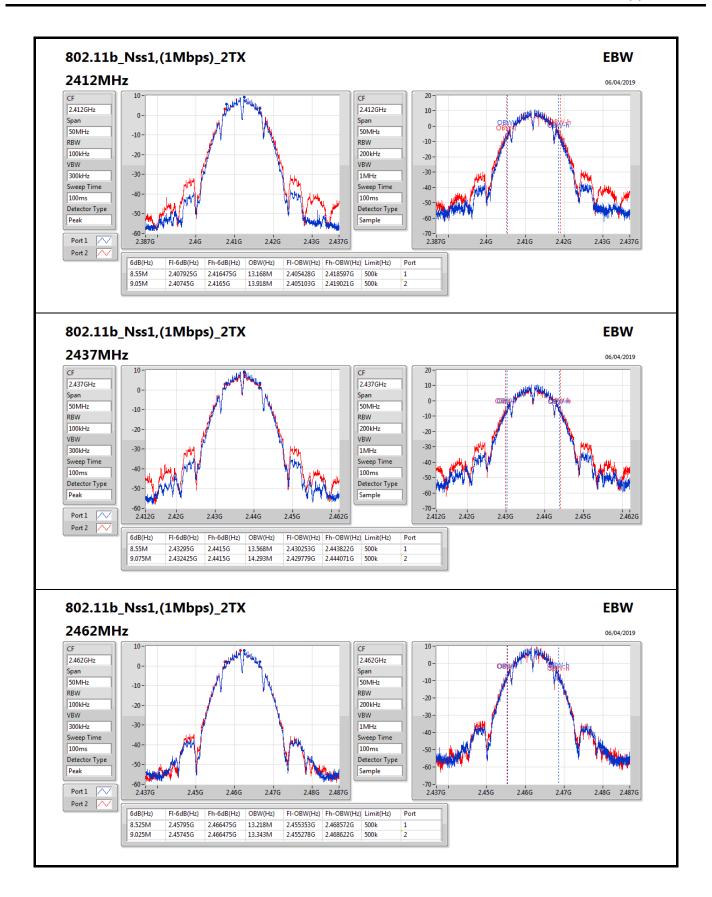
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth; **Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

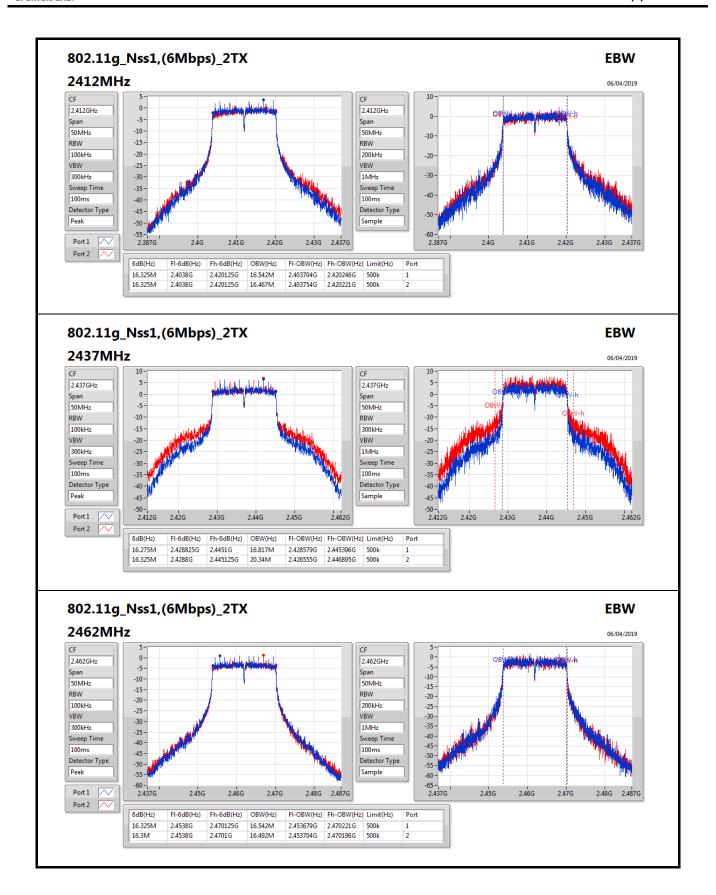
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.55M	13.168M	9.05M	13.918M
2437MHz	Pass	500k	8.55M	13.568M	9.075M	14.293M
2462MHz	Pass	500k	8.525M	13.218M	9.025M	13.343M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.542M	16.325M	16.467M
2437MHz	Pass	500k	16.275M	16.817M	16.325M	20.34M
2462MHz	Pass	500k	16.325M	16.542M	16.3M	16.492M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.741M	17.6M	17.691M
2437MHz	Pass	500k	17.575M	17.916M	17.55M	21.214M
2462MHz	Pass	500k	17.6M	17.716M	17.55M	17.716M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.9M	36.282M	35.65M	36.182M
2437MHz	Pass	500k	36.05M	36.282M	36.35M	36.332M
2452MHz	Pass	500k	36.3M	36.332M	35.9M	36.432M

Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

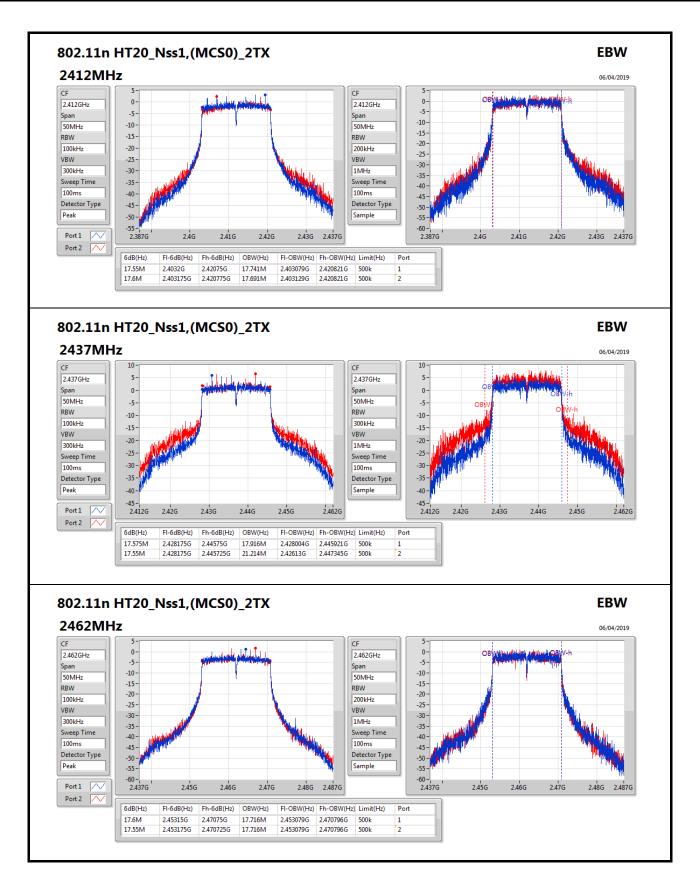
EBW Result Appendix B



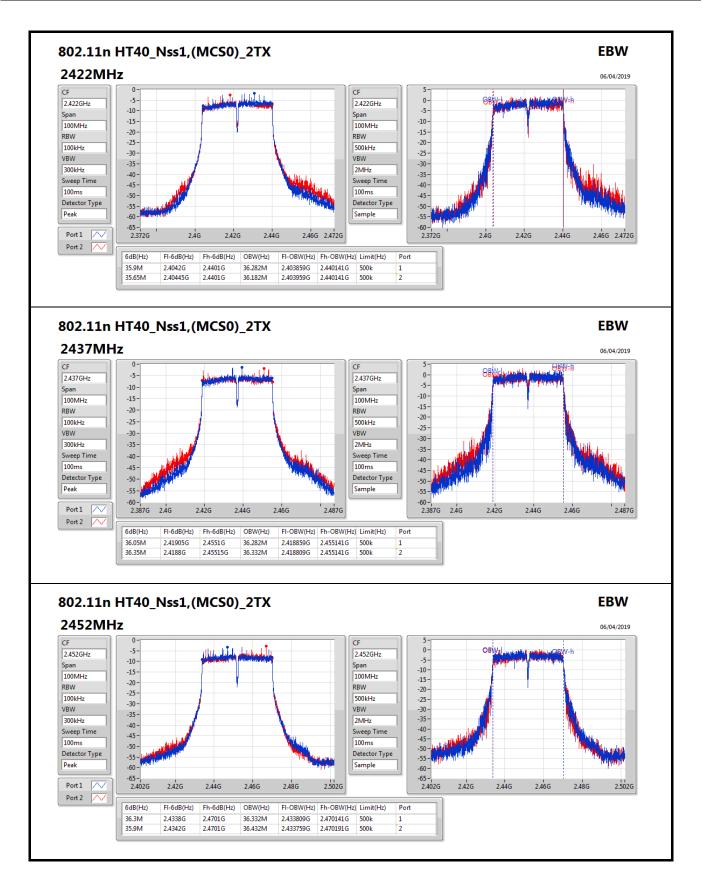
EBW Result Appendix B













Appendix C **AV Power Result**

Summary

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.09	0.20370
802.11g_Nss1,(6Mbps)_2TX	21.28	0.13428
802.11n HT20_Nss1,(MCS0)_2TX	21.32	0.13552
802.11n HT40_Nss1,(MCS0)_2TX	16.67	0.04645

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.50	19.99	20.07	23.04	30.00
2437MHz	Pass	5.50	20.28	19.87	23.09	30.00
2462MHz	Pass	5.50	18.44	18.68	21.57	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.50	15.84	15.52	18.69	30.00
2417MHz	Pass	5.50	17.85	17.62	20.75	30.00
2437MHz	Pass	5.50	18.27	18.27	21.28	30.00
2457MHz	Pass	5.50	16.98	17.08	20.04	30.00
2462MHz	Pass	5.50	13.32	13.32	16.33	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.50	15.89	15.64	18.78	30.00
2417MHz	Pass	5.50	18.16	18.09	21.14	30.00
2437MHz	Pass	5.50	18.28	18.33	21.32	30.00
2457MHz	Pass	5.50	16.65	16.68	19.68	30.00
2462MHz	Pass	5.50	14.04	13.94	17.00	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.50	13.56	13.29	16.44	30.00
2437MHz	Pass	5.50	13.66	13.65	16.67	30.00
2452MHz	Pass	5.50	12.25	12.29	15.28	30.00

DG = Directional Gain; Port X = Port X output power
Note : Conducted average output power is for reference only



Summary

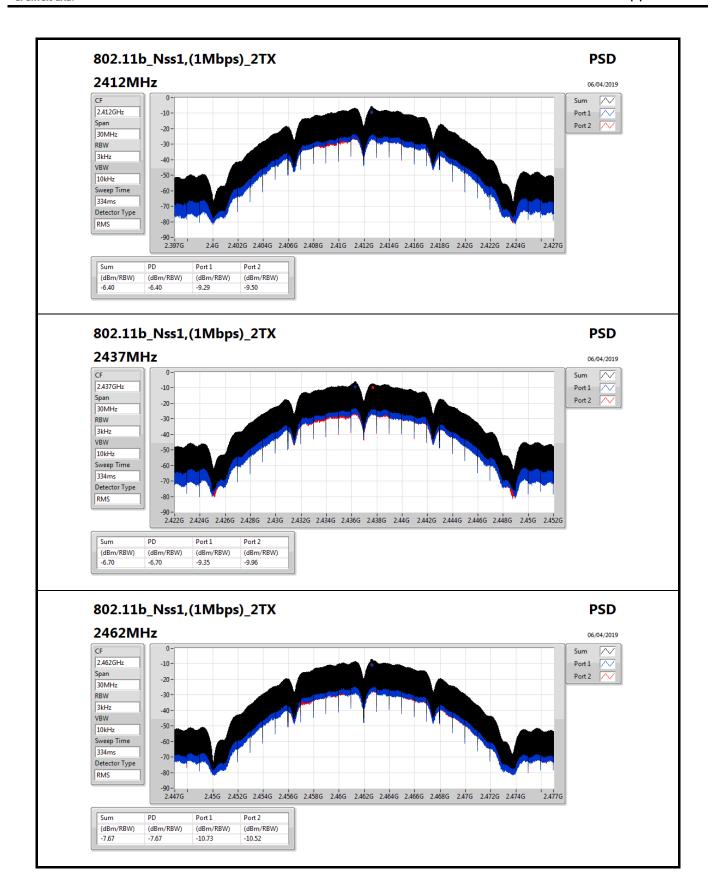
Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-6.4
802.11g_Nss1,(6Mbps)_2TX	-8.36
802.11n HT20_Nss1,(MCS0)_2TX	-8.12
802.11n HT40_Nss1,(MCS0)_2TX	-14.33

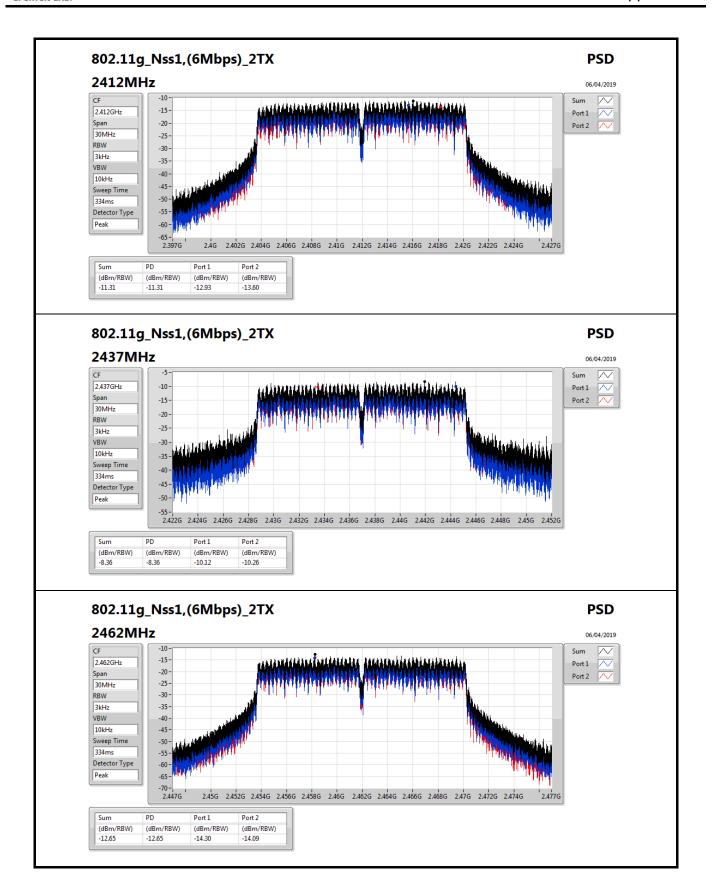
RBW=3kHz.

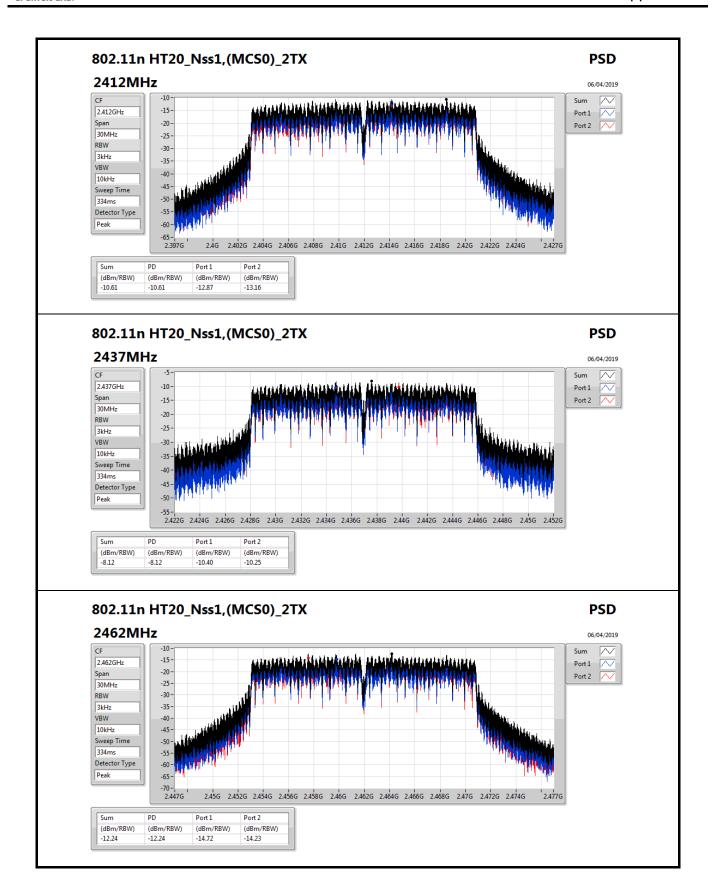
Result

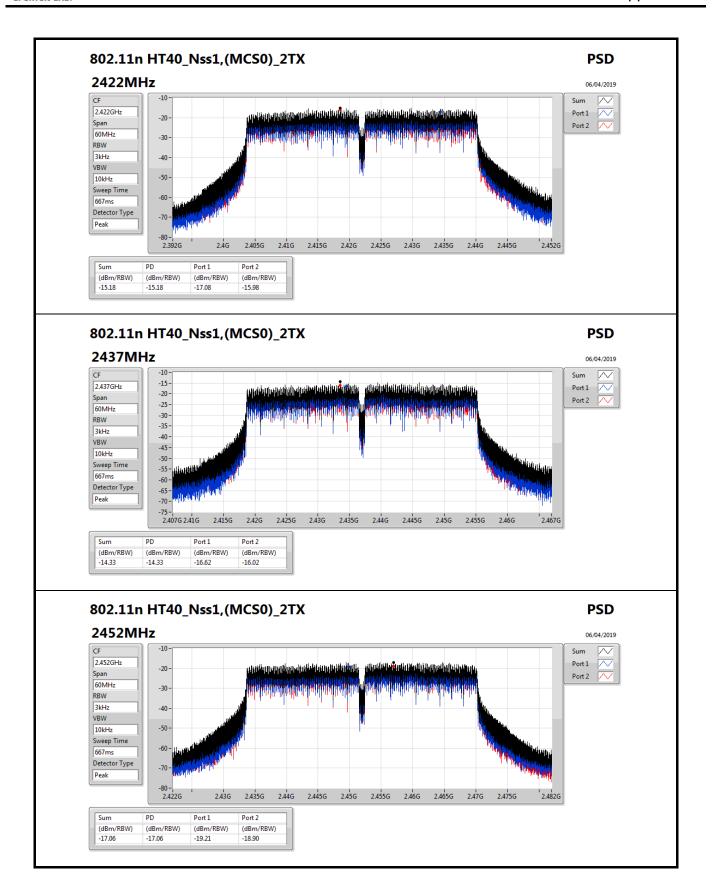
Mode	Result	DG	Port 1	Port 2	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.51	-9.29	-9.5	-6.40	5.49
2437MHz	Pass	8.51	-9.35	-9.96	-6.70	5.49
2462MHz	Pass	8.51	-10.73	-10.52	-7.67	5.49
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.51	-12.93	-13.6	-11.31	5.49
2437MHz	Pass	8.51	-10.12	-10.26	-8.36	5.49
2462MHz	Pass	8.51	-14.3	-14.09	-12.65	5.49
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	8.51	-12.87	-13.16	-10.61	5.49
2437MHz	Pass	8.51	-10.4	-10.25	-8.12	5.49
2462MHz	Pass	8.51	-14.72	-14.23	-12.24	5.49
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	8.51	-17.08	-15.98	-15.18	5.49
2437MHz	Pass	8.51	-16.62	-16.02	-14.33	5.49
2452MHz	Pass	8.51	-19.21	-18.9	-17.06	5.49

DG = Directional Gain; RBW=3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;











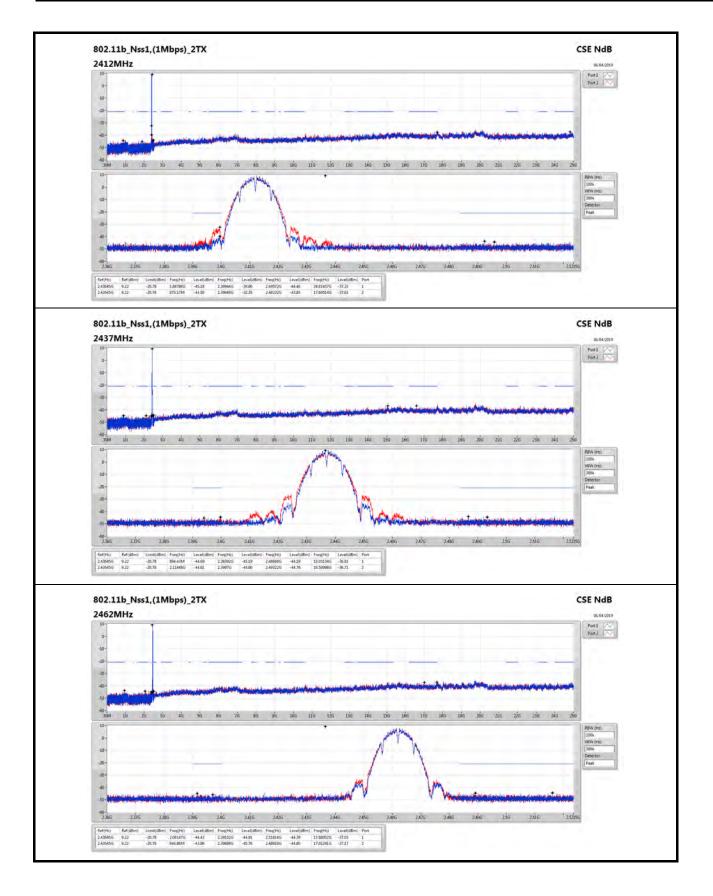
Summary

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz		-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43645G	9.22	-20.78	873.17M	-44.5	2.39948G	-32.35	2.49232G	-43.85	17.69514G	-37.61	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44071G	6.12	-23.88	781.43M	-45.27	2.39964G	-28.58	2.51164G	-44.47	15.26768G	-37.04	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43315G	4.91	-25.09	2.17564G	-45.11	2.3998G	-28.34	2.4995G	-44.38	21.87296G	-36.49	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.44071G	-1.52	-31.52	601.64M	-44.74	2.39468G	-46.4	2.48794G	-44.25	15.01295G	-36.11	2

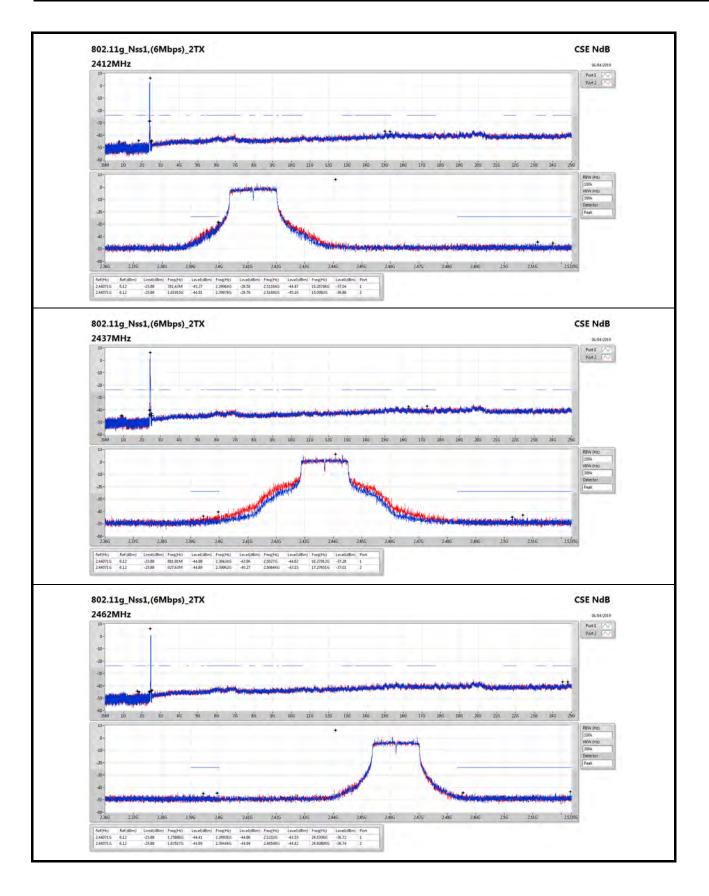
Result

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43645G	9.22	-20.78	1.88788G	-45.18	2.39944G	-39.66	2.49572G	-44.46	24.81457G	-37.33	1
2412MHz	Pass	2.43645G	9.22	-20.78	873.17M	-44.5	2.39948G	-32.35	2.49232G	-43.85	17.69514G	-37.61	2
2437MHz	Pass	2.43645G	9.22	-20.78	894.43M	-44.69	2.39392G	-45.19	2.48668G	-44.19	15.05134G	-36.81	1
2437MHz	Pass	2.43645G	9.22	-20.78	2.11448G	-44.61	2.3997G	-44.6	2.49322G	-44.76	16.59098G	-36.71	2
2462MHz	Pass	2.43645G	9.22	-20.78	2.06147G	-44.42	2.39152G	-44.91	2.51614G	-44.39	17.68952G	-37.05	1
2462MHz	Pass	2.43645G	9.22	-20.78	946.86M	-43.96	2.39698G	-45.76	2.48916G	-44.8	17.01241G	-37.17	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-		-		-	-	
2412MHz	Pass	2.44071G	6.12	-23.88	781.43M	-45.27	2.39964G	-28.58	2.51164G	-44.47	15.26768G	-37.04	1
2412MHz	Pass	2.44071G	6.12	-23.88	1.81915G	-44.51	2.39978G	-28.76	2.51692G	-45.16	15.0092G	-36.86	2
2437MHz	Pass	2.44071G	6.12	-23.88	881.91M	-44.99	2.39434G	-43.96	2.5027G	-44.62	16.27912G	-37.28	1
2437MHz	Pass	2.44071G	6.12	-23.88	927.63M	-44.89	2.39962G	-40.27	2.50644G	-43.15	17.27651G	-37.01	2
2462MHz	Pass	2.44071G	6.12	-23.88	1.75886G	-44.41	2.39926G	-44.66	2.5232G	-43.53	24.5308G	-36.72	1
2462MHz	Pass	2.44071G	6.12	-23.88	1.83517G	-44.95	2.39444G	-44.94	2.48548G	-44.42	24.80895G	-36.74	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-		-		-	-	-
2412MHz	Pass	2.43315G	4.91	-25.09	1.86633G	-45	2.39986G	-28.8	2.49628G	-43.9	16.26226G	-37.26	1
2412MHz	Pass	2.43315G	4.91	-25.09	2.17564G	-45.11	2.3998G	-28.34	2.4995G	-44.38	21.87296G	-36.49	2
2437MHz	Pass	2.43315G	4.91	-25.09	930.55M	-45.66	2.396G	-43.72	2.49642G	-44.08	24.89605G	-36.73	1
2437MHz	Pass	2.43315G	4.91	-25.09	488.72M	-43.91	2.3995G	-41.52	2.48568G	-44.11	15.02886G	-37.16	2
2462MHz	Pass	2.43315G	4.91	-25.09	868.8M	-44.31	2.39592G	-46.42	2.48382G	-42.42	23.13164G	-37.37	1
2462MHz	Pass	2.43315G	4.91	-25.09	944.53M	-45.57	2.39994G	-45.74	2.48382G	-41.09	15.00077G	-36.53	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-		-		-	-	
2422MHz	Pass	2.44071G	-1.52	-31.52	582.46M	-45.6	2.39976G	-37.22	2.54218G	-45.42	24.85416G	-36.93	1
2422MHz	Pass	2.44071G	-1.52	-31.52	737.04M	-44.93	2.3976G	-36.89	2.5175G	-44.92	15.00173G	-37.26	2
2437MHz	Pass	2.44071G	-1.52	-31.52	901.92M	-44.46	2.39824G	-45.44	2.49314G	-45.26	16.25257G	-37.3	1
2437MHz	Pass	2.44071G	-1.52	-31.52	352.03M	-44.23	2.39784G	-43.07	2.50478G	-44.85	16.54144G	-37.01	2
2452MHz	Pass	2.44071G	-1.52	-31.52	745.91M	-45.02	2.39464G	-46.22	2.4933G	-43.45	16.26098G	-36.82	1
2452MHz	Pass	2.44071G	-1.52	-31.52	601.64M	-44.74	2.39468G	-46.4	2.48794G	-44.25	15.01295G	-36.11	2

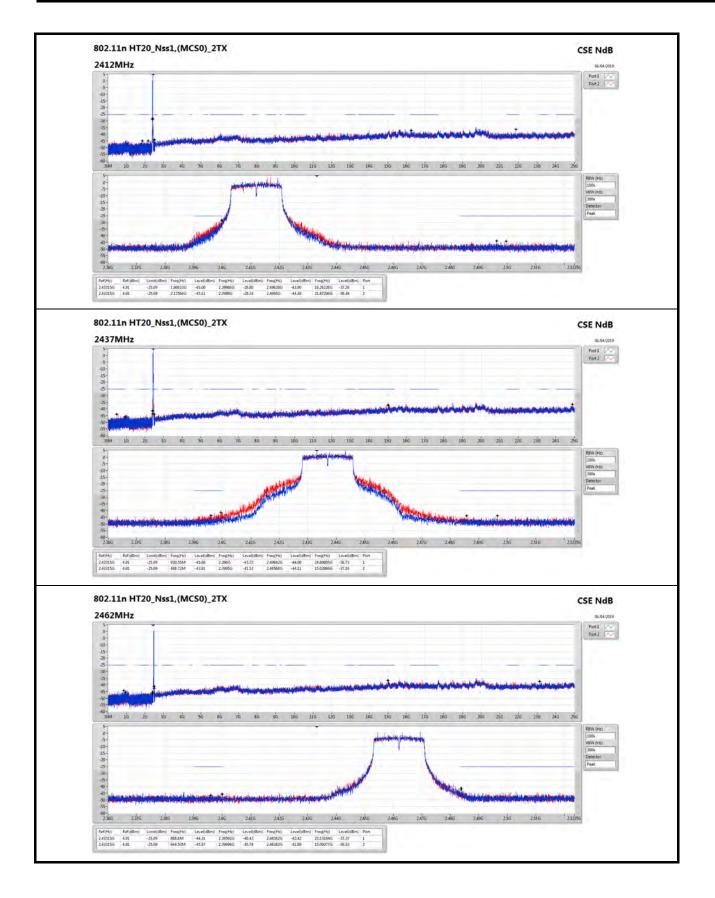




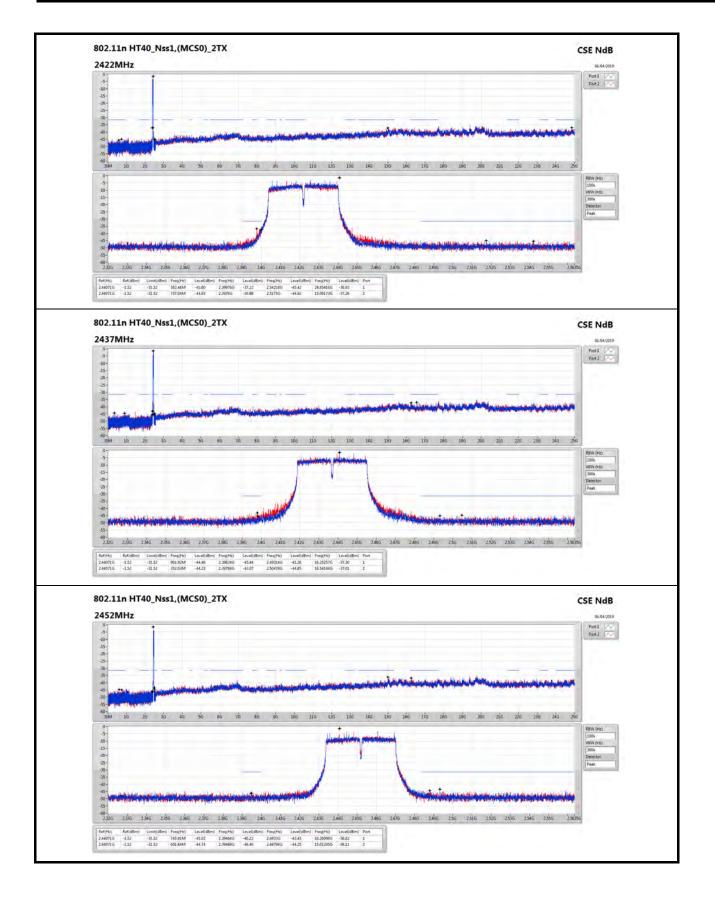






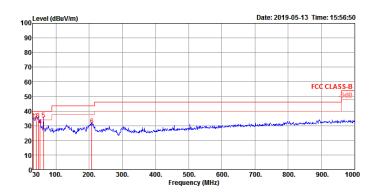








RSE below 1GHz Result										
Operating Mode	2	Polarization	Vertical							
Operating Function	СТХ									

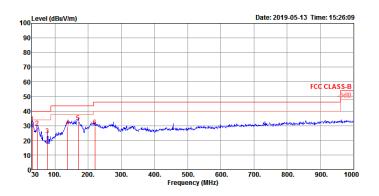


	Freq	Level		Limit					A/Pos	1/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	33.82	40.00	-6.18	42.80	0.52	22.93	32.43	200	97	QP	VERTICAL
2	39.70	33.50	40.00	-6.50	46.89	0.61	18.42	32.42	100	227	QP	VERTICAL
3	46.49	34.13	40.00	-5.87	50.70	0.69	15.16	32.42	100	354	QP	VERTICAL
4	52.31	29.71	40.00	-10.29	48.31	0.74	13.08	32.42	100	316	QP	VERTICAL
5	62.98	34.20	40.00	-5.80	53.60	0.83	12.17	32.40	200	65	QP	VERTICAL
6	208.48	30.34	43.50	-13.16	45.90	1.51	15.23	32.30	100	301	QP	VERTICAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



RSE below 1GHz Result										
Operating Mode	2	Polarization	Horizontal							
Operating Function	СТХ									



	Freq	Level						Factor		1/205	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	31.72	40.00	-8.28	40.70	0.52	22.93	32.43	100	185	QP	HORIZONTAL
2	46.49	28.83	40.00	-11.17	45.40	0.69	15.16	32.42	300	114	QP	HORIZONTAL
3	77.53	23.61	40.00	-16.39	42.80	0.89	12.31	32.39	100	260	QP	HORIZONTAL
4	138.64	29.58	43.50	-13.92	43.49	1.22	17.21	32.34	200	237	QP	HORIZONTAL
5	169.68	32.36	43.50	-11.14	47.59	1.35	15.74	32.32	150	99	QP	HORIZONTAL
6	220.12	29.56	46.00	-16.44	45.10	1.54	15.21	32.29	125	228	QP	HORIZONTAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

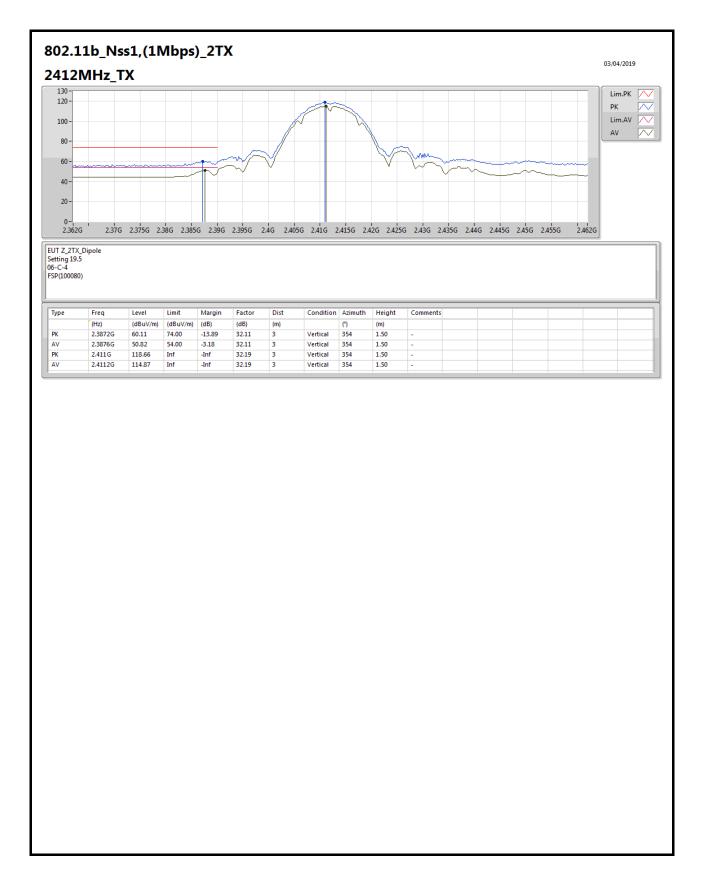


RSE TX above 1GHz Appendix F.2

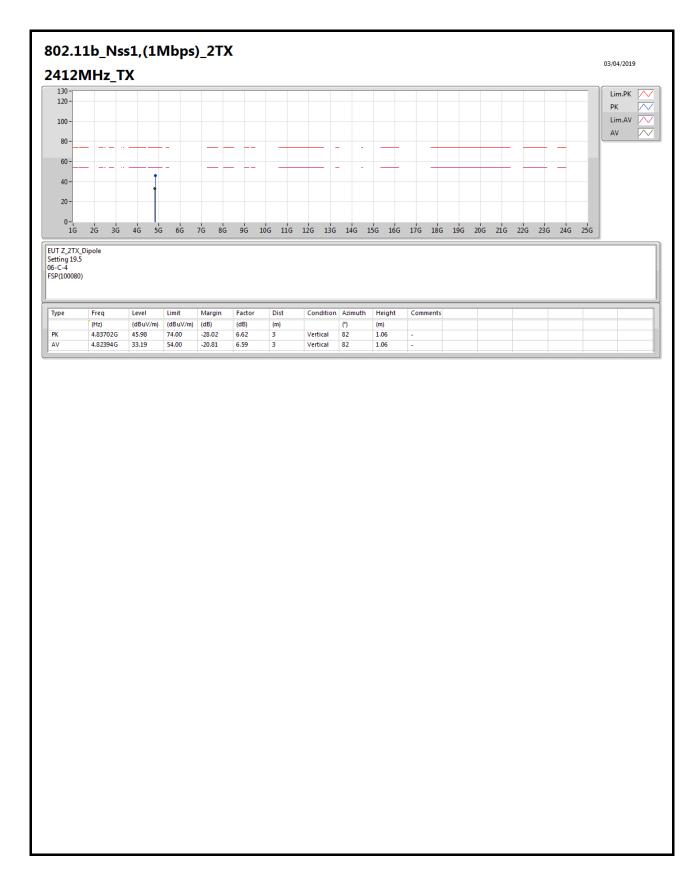
Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.389G	53.99	54.00	-0.01	32.12	3	Vertical	101	1.20	-

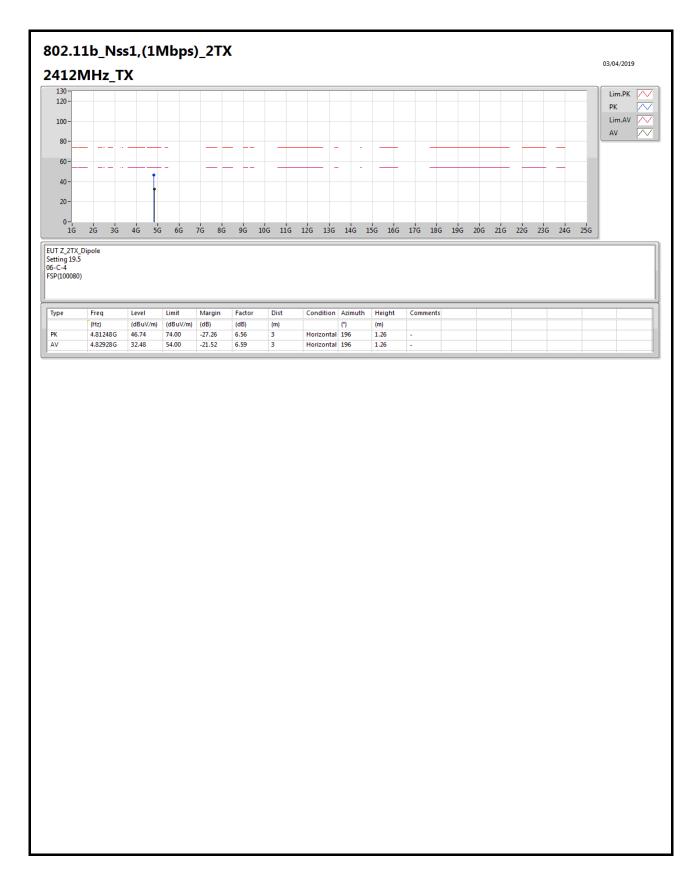




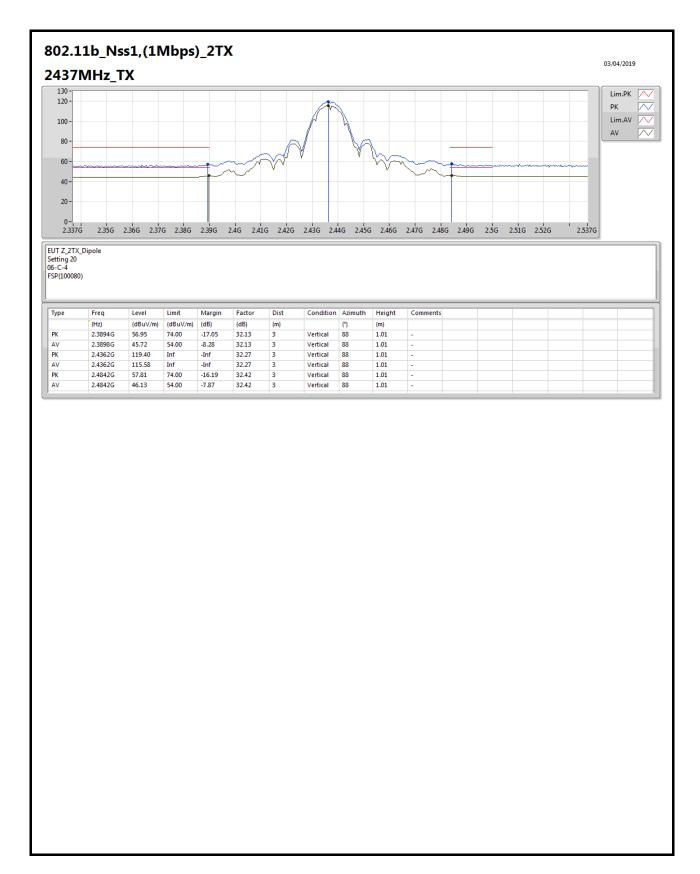




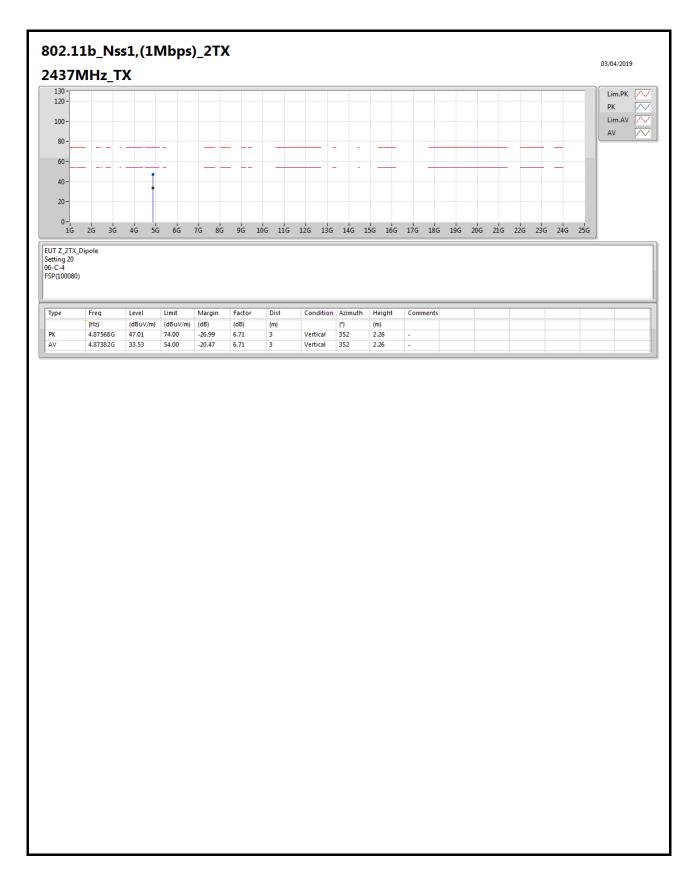




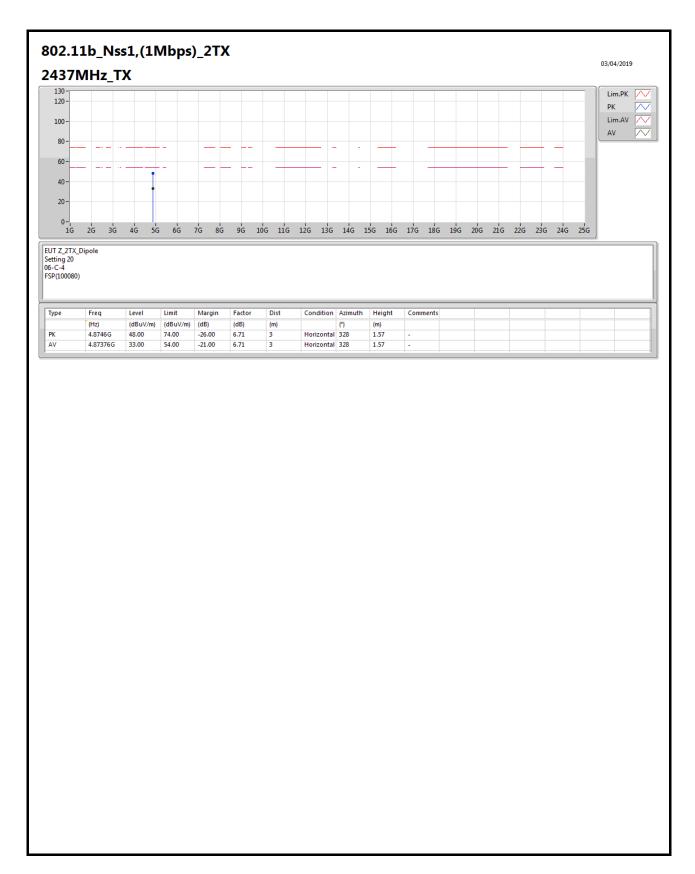




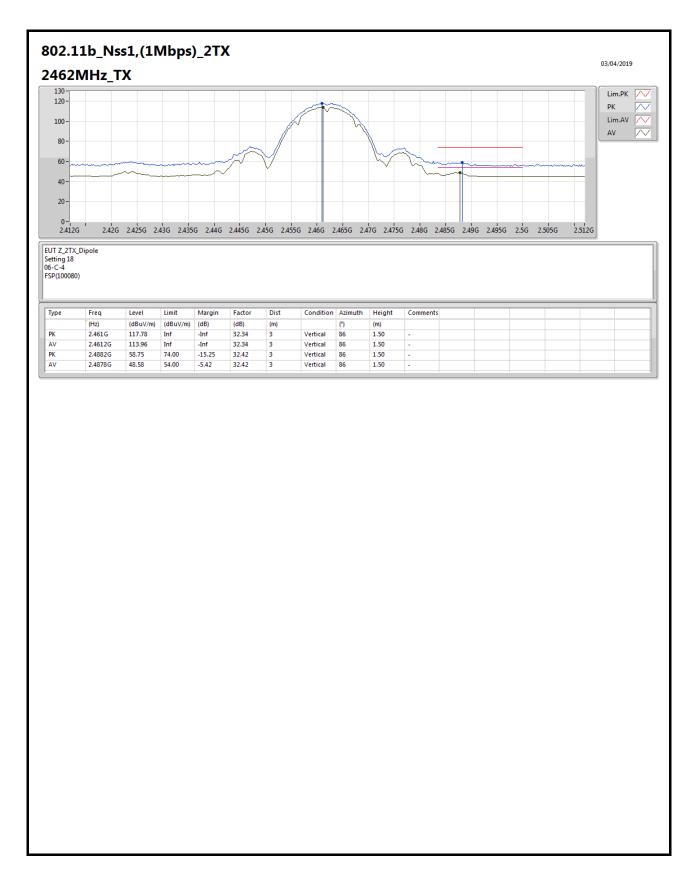




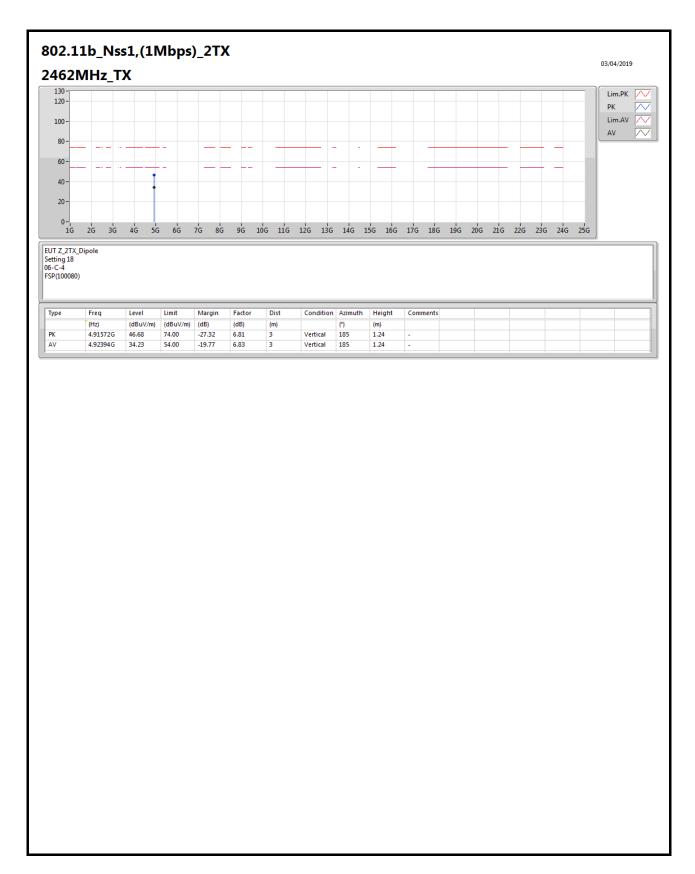




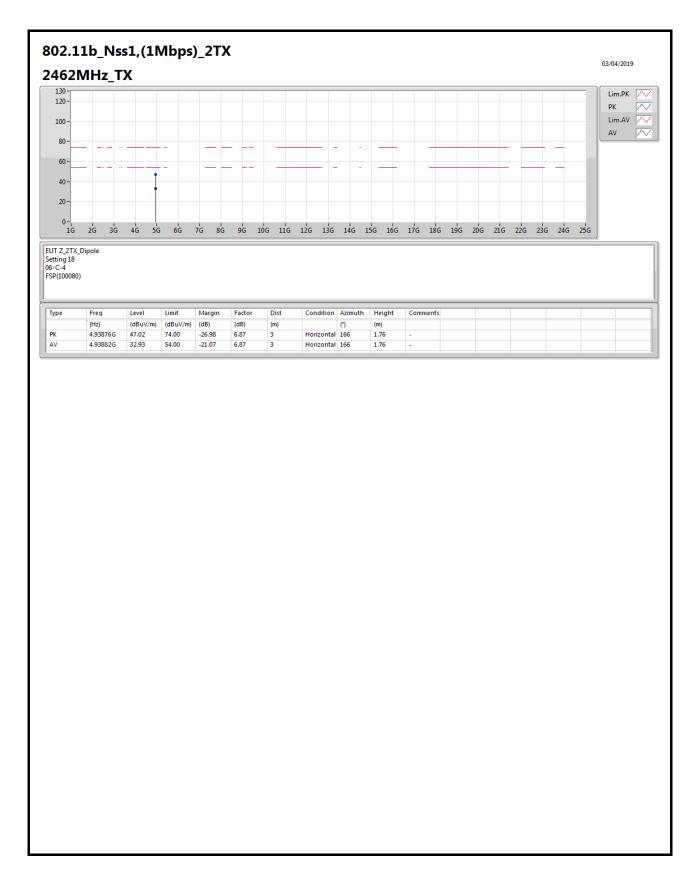




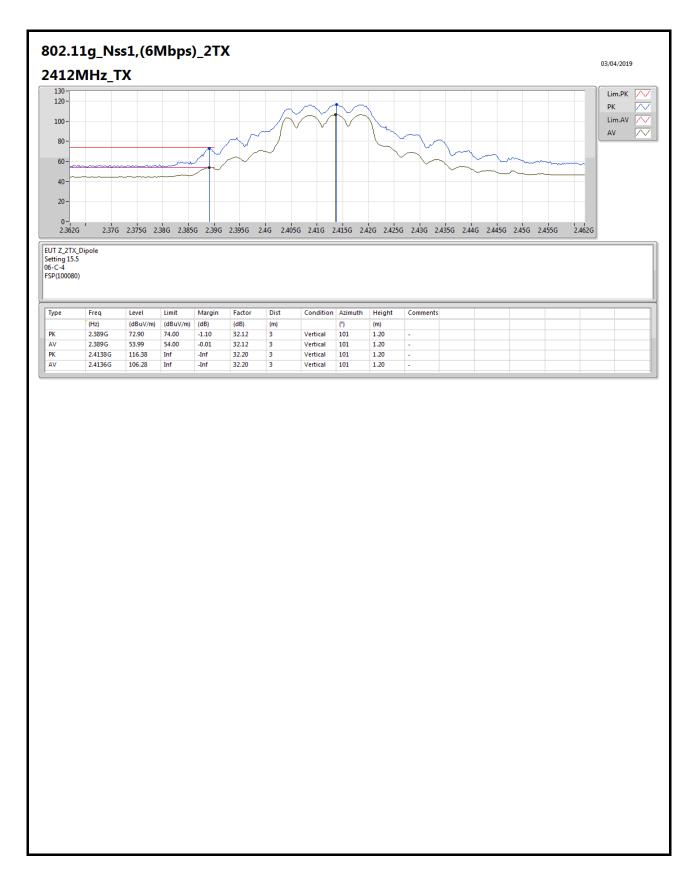




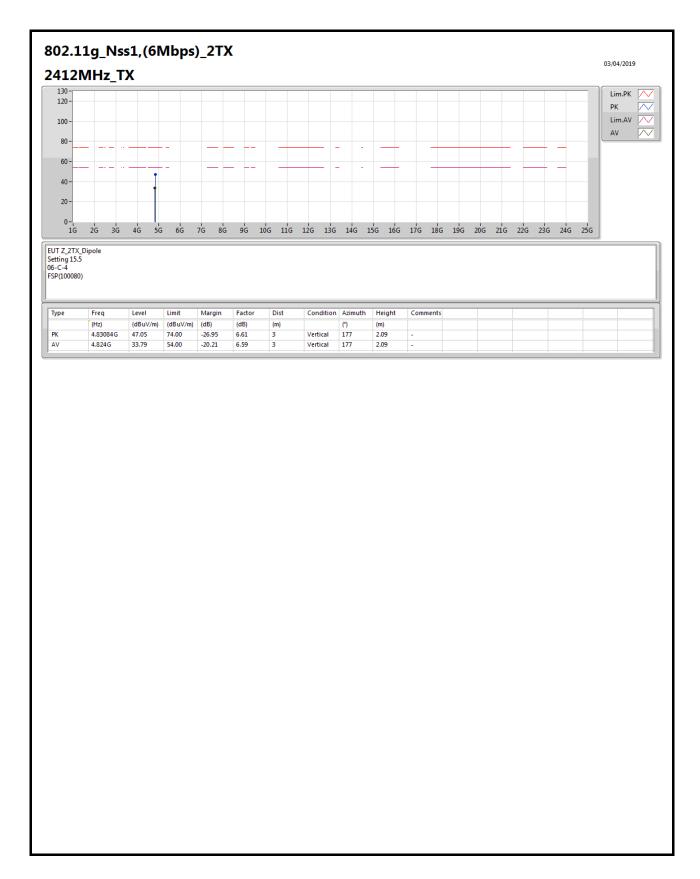




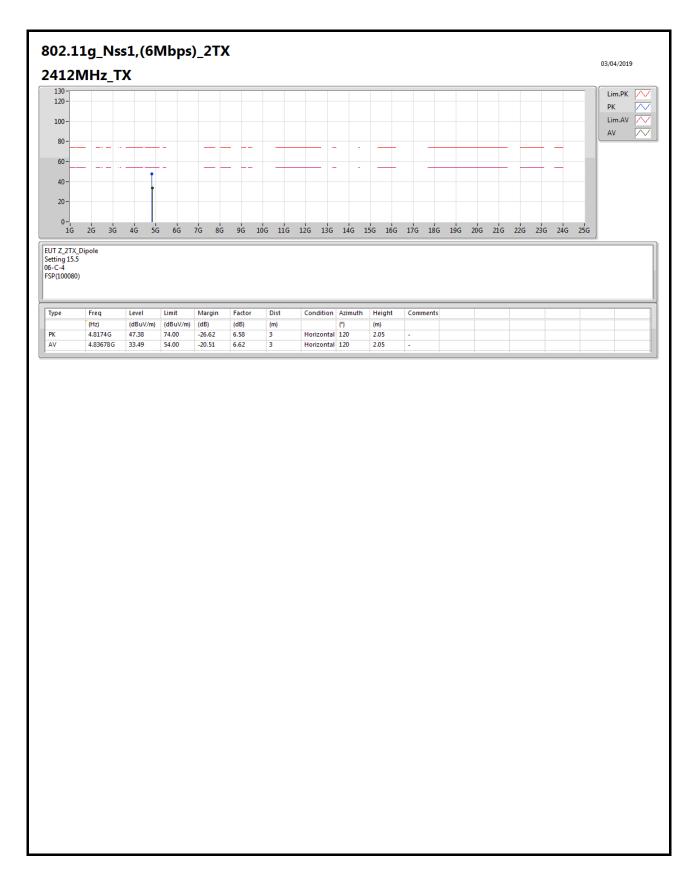




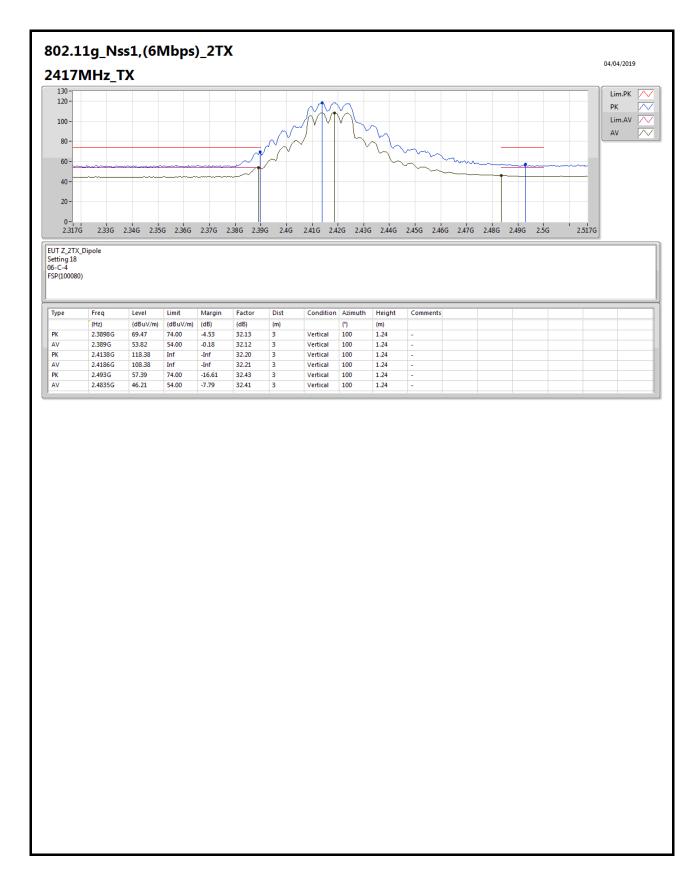




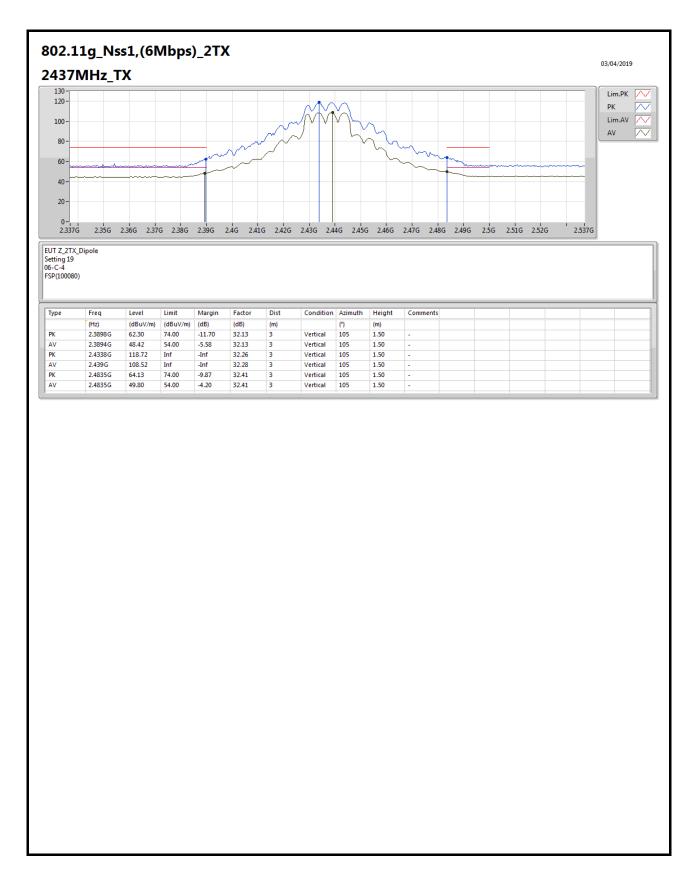




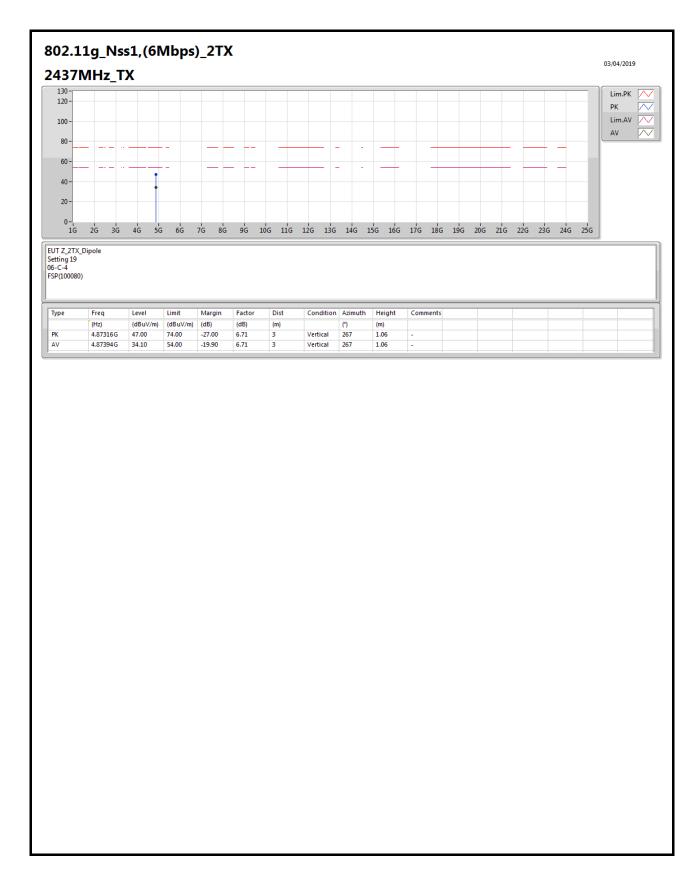




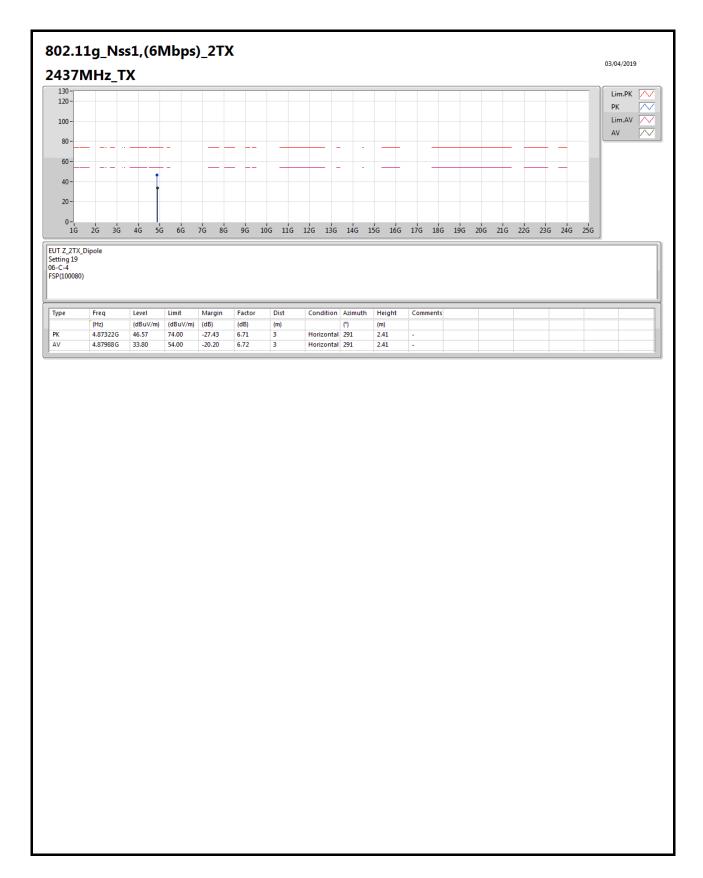




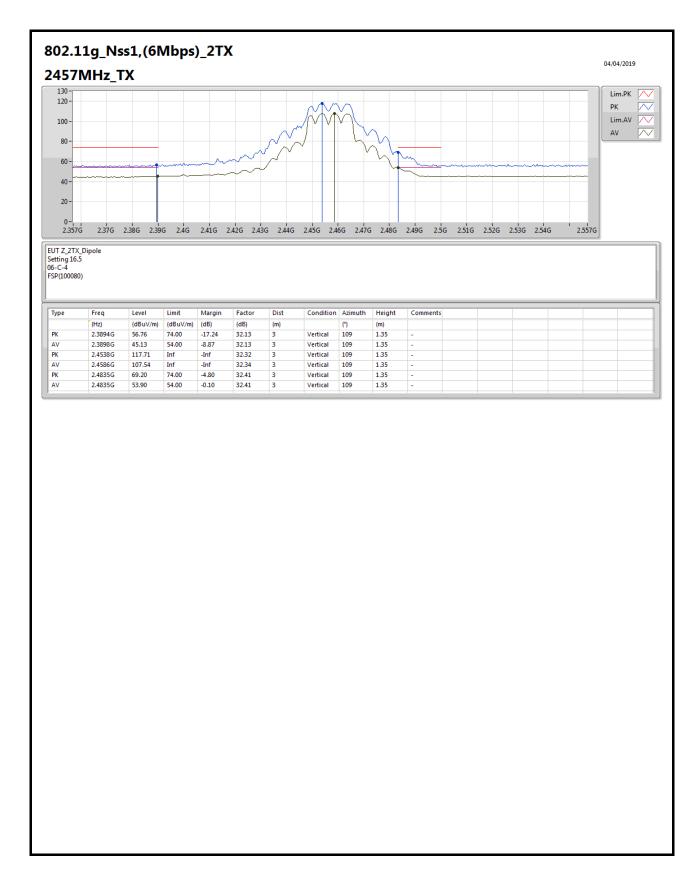




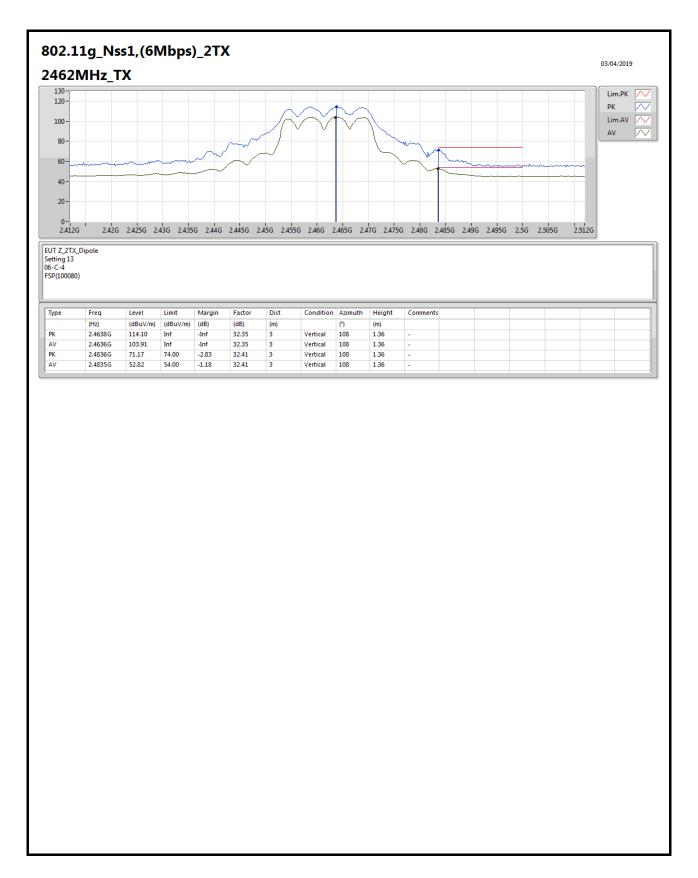




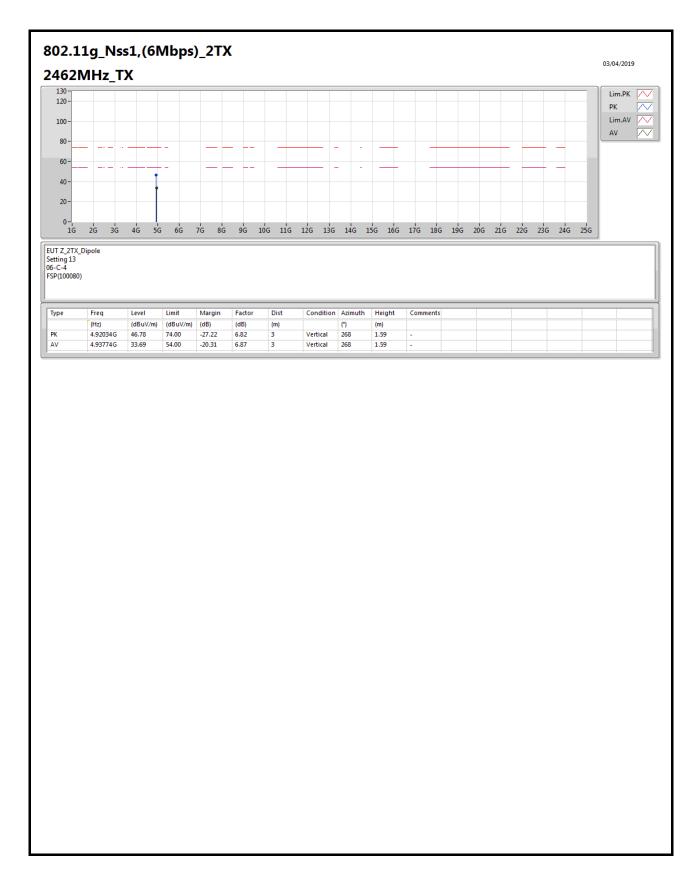




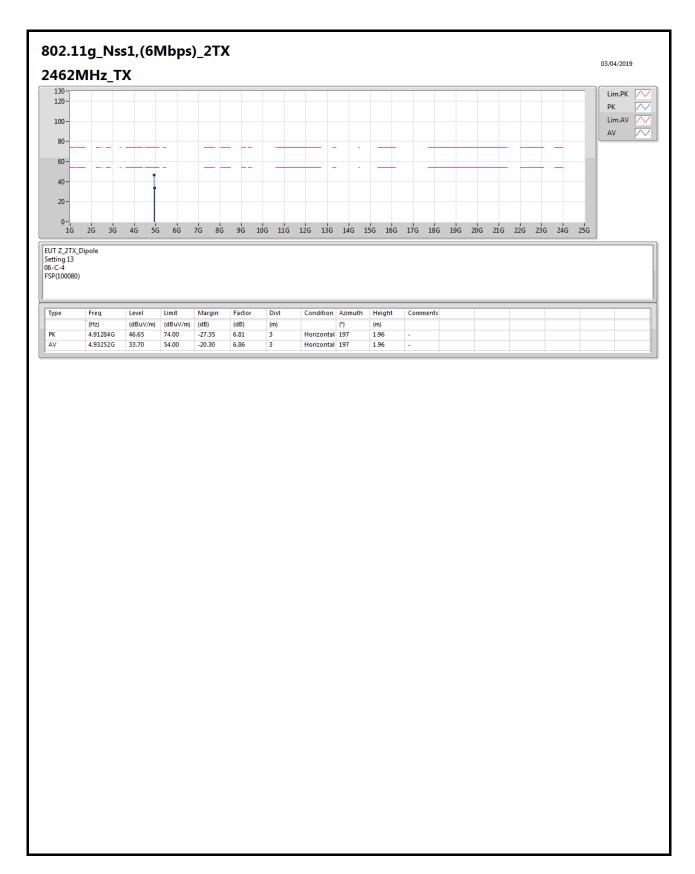




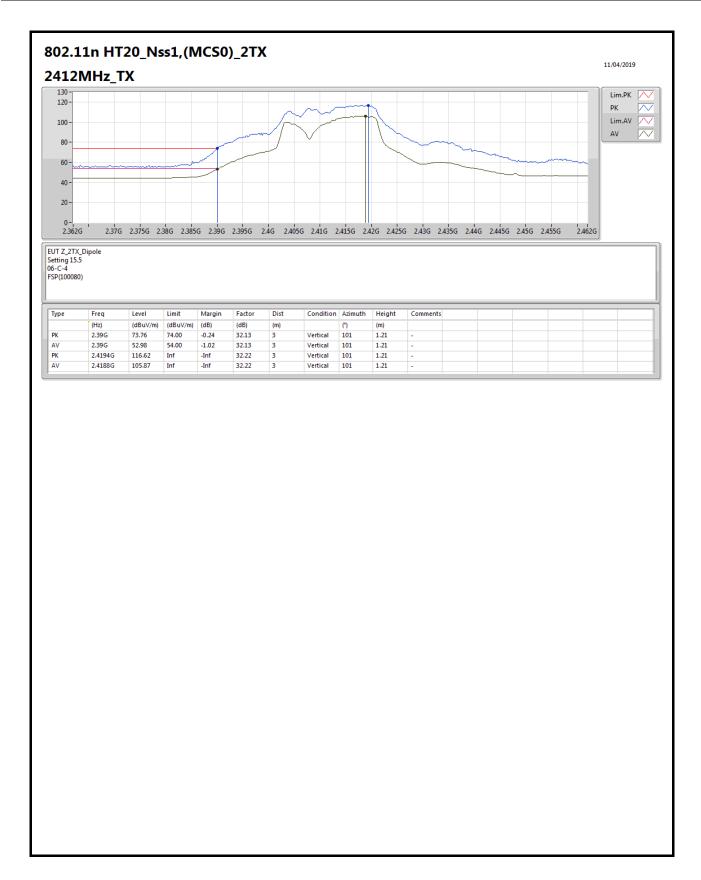




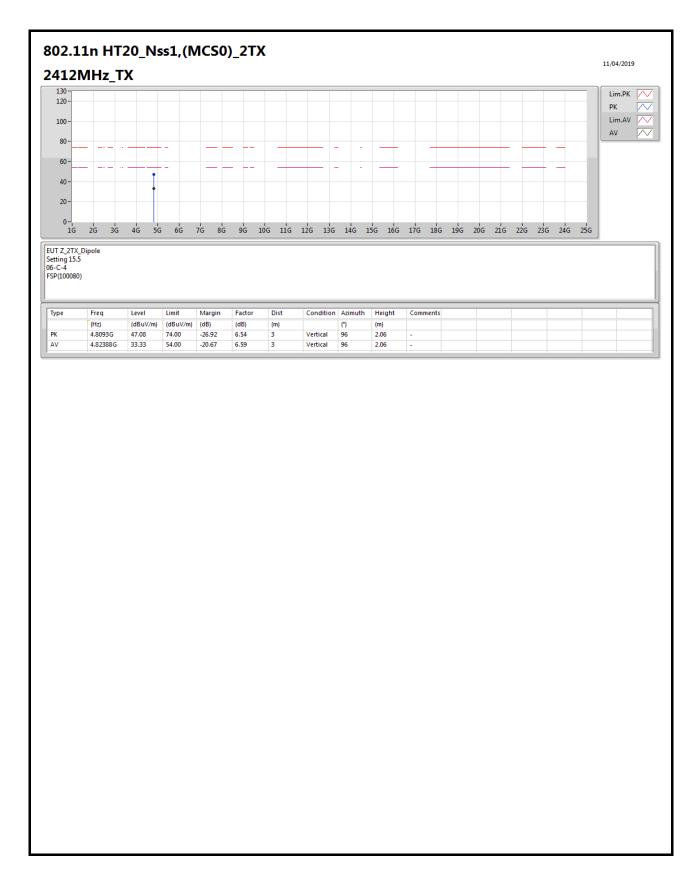




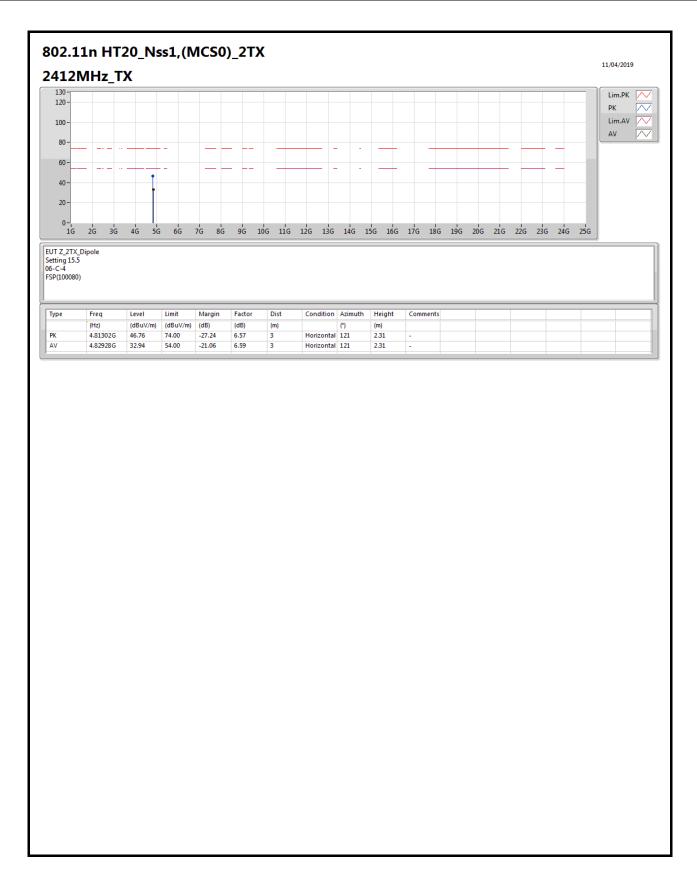




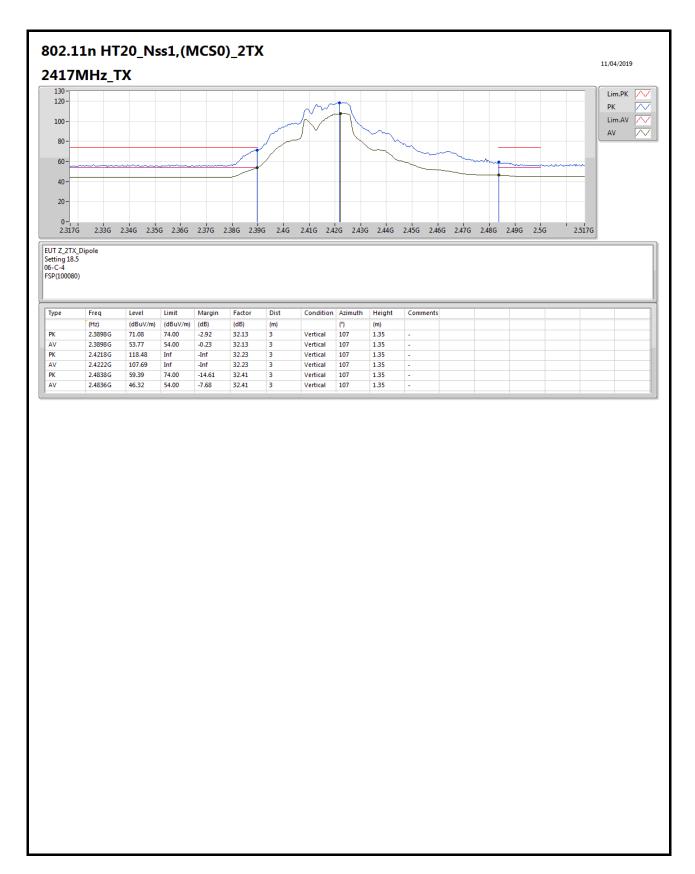




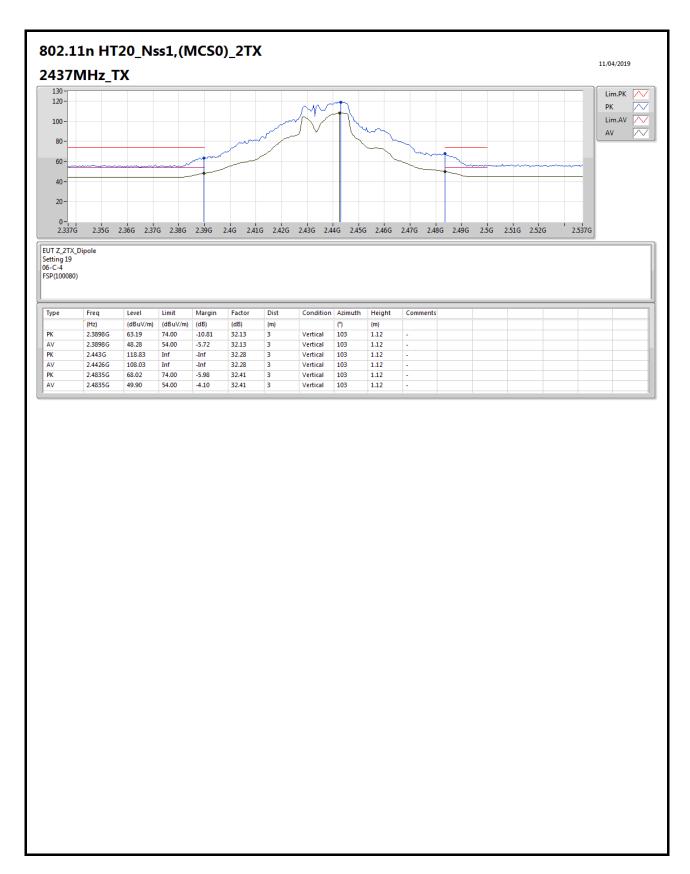




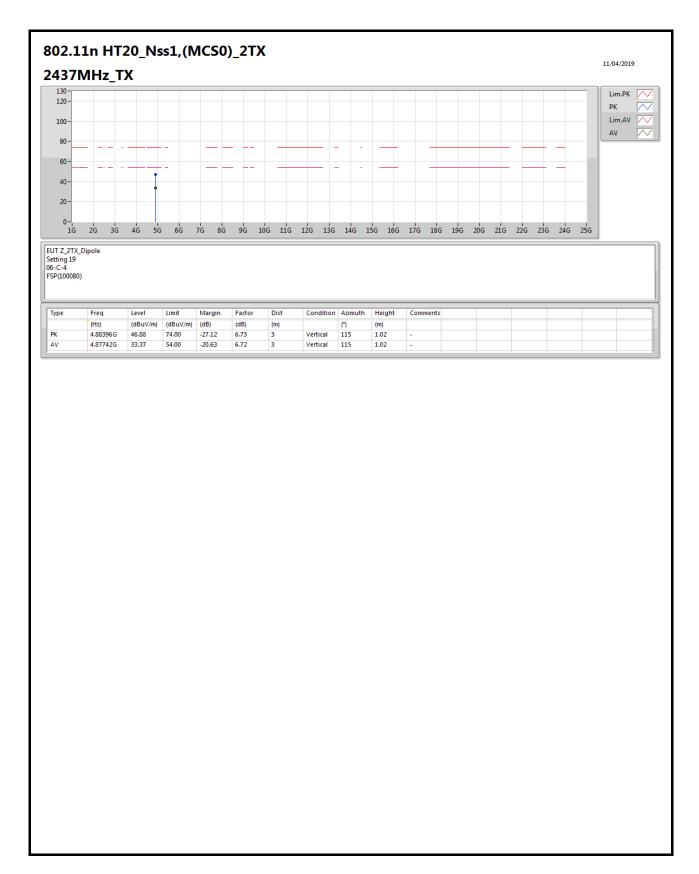




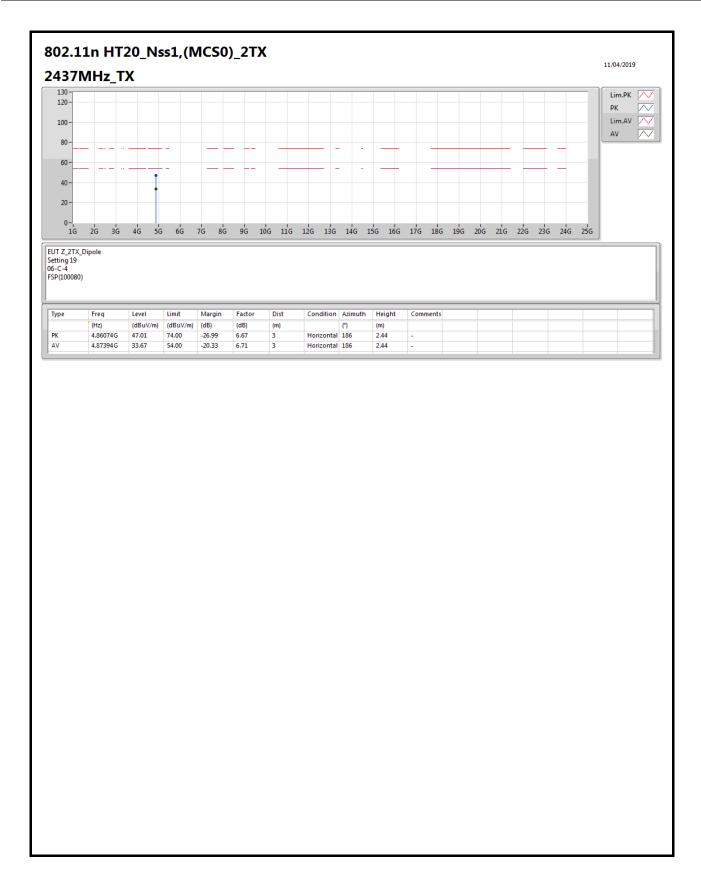




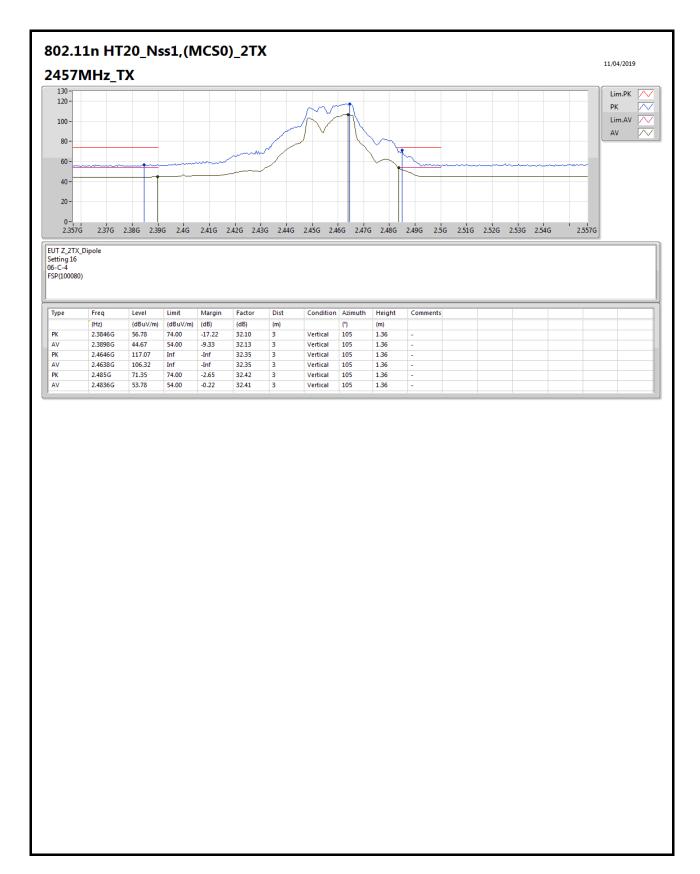




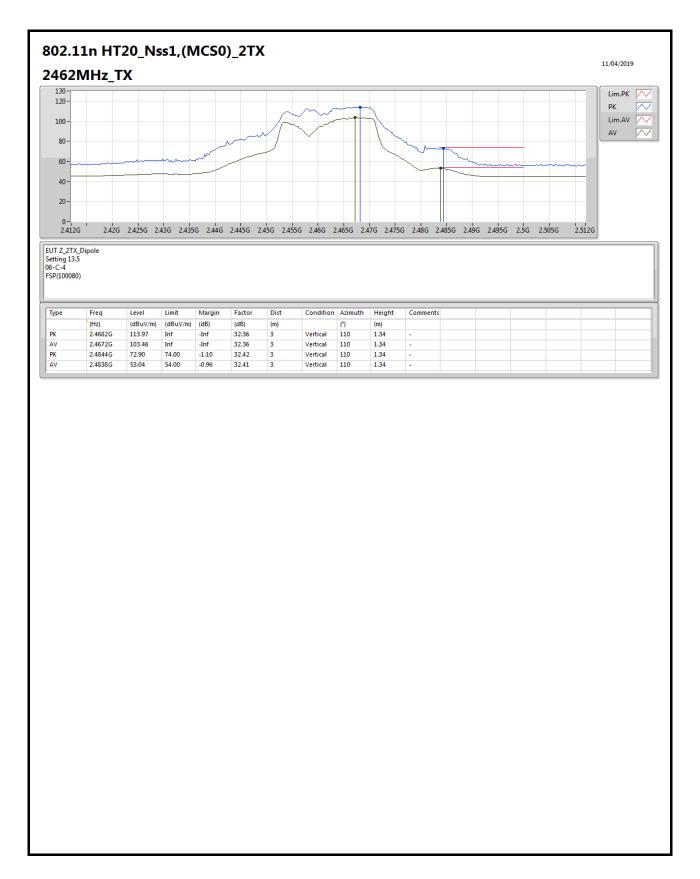




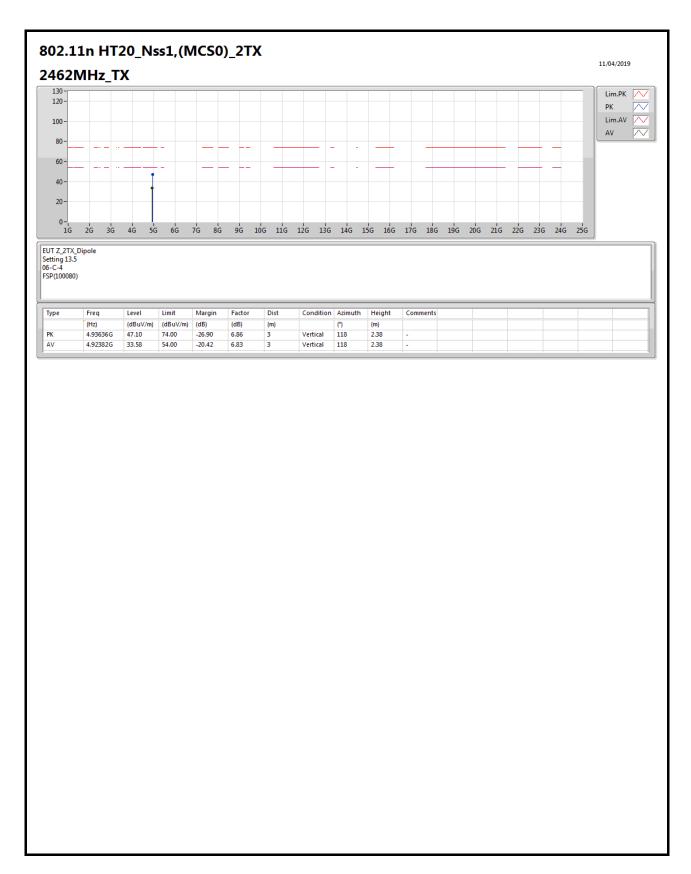




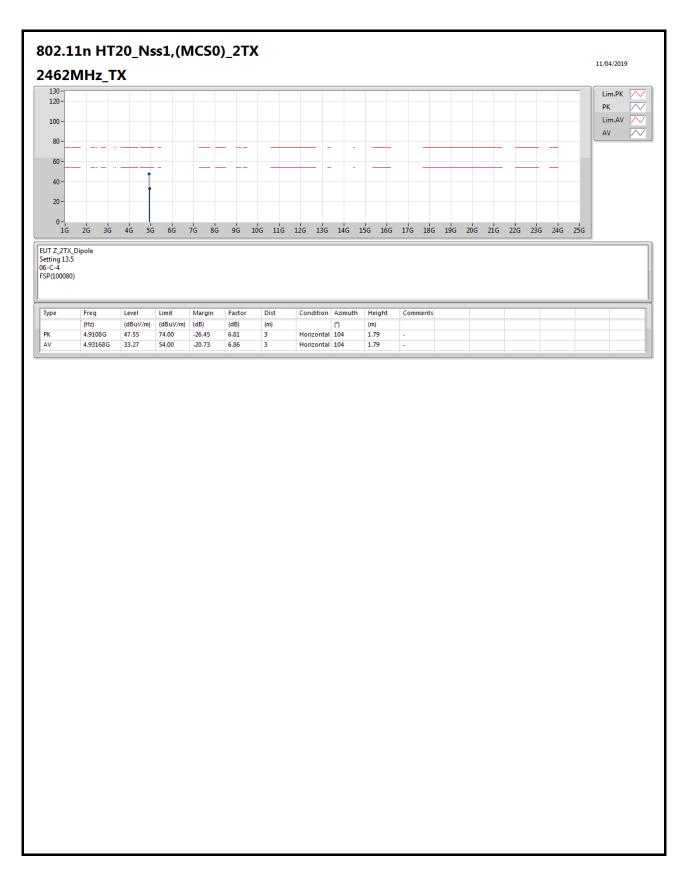




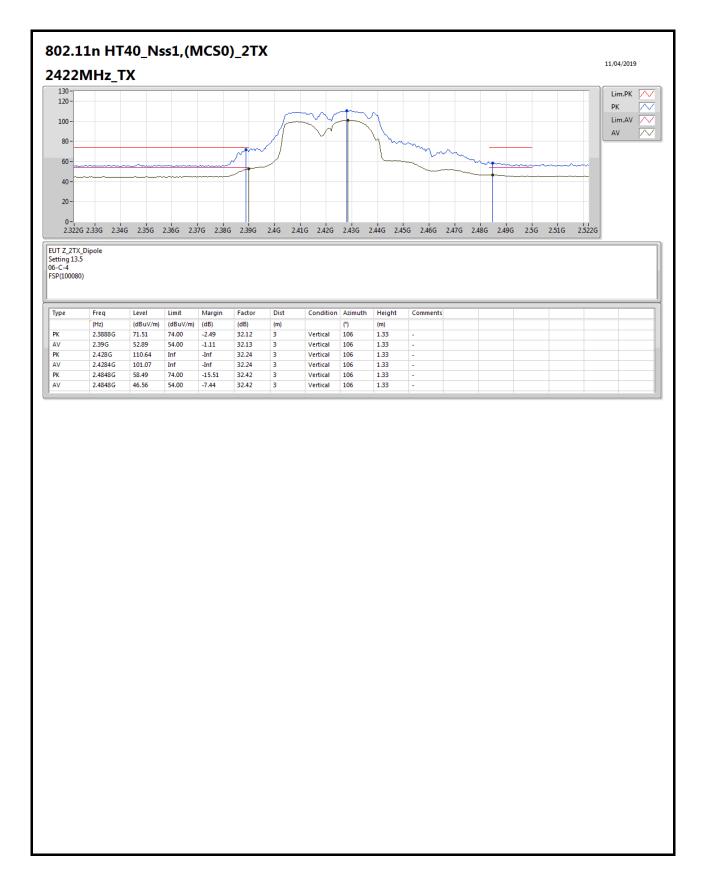




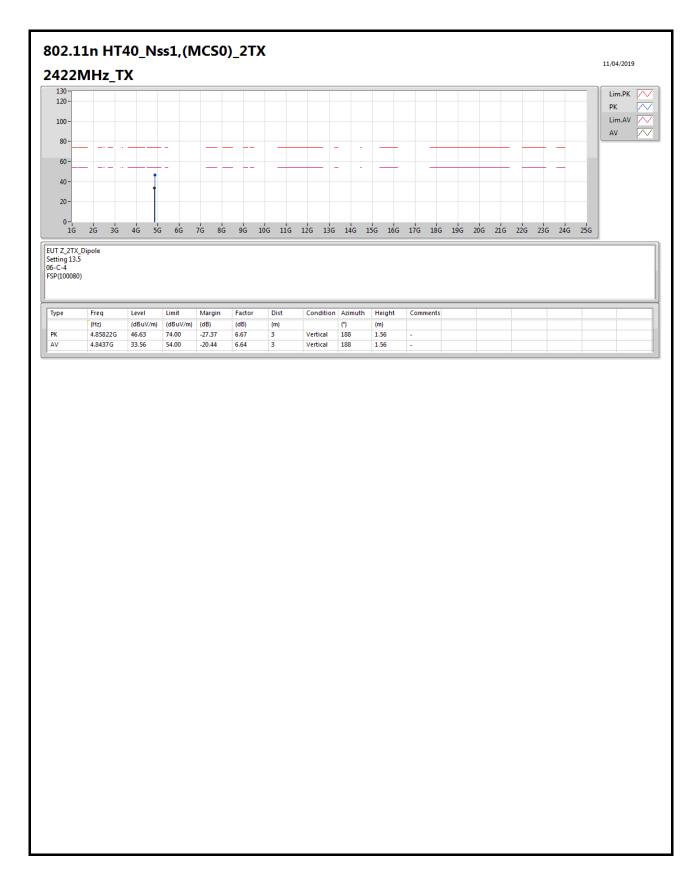




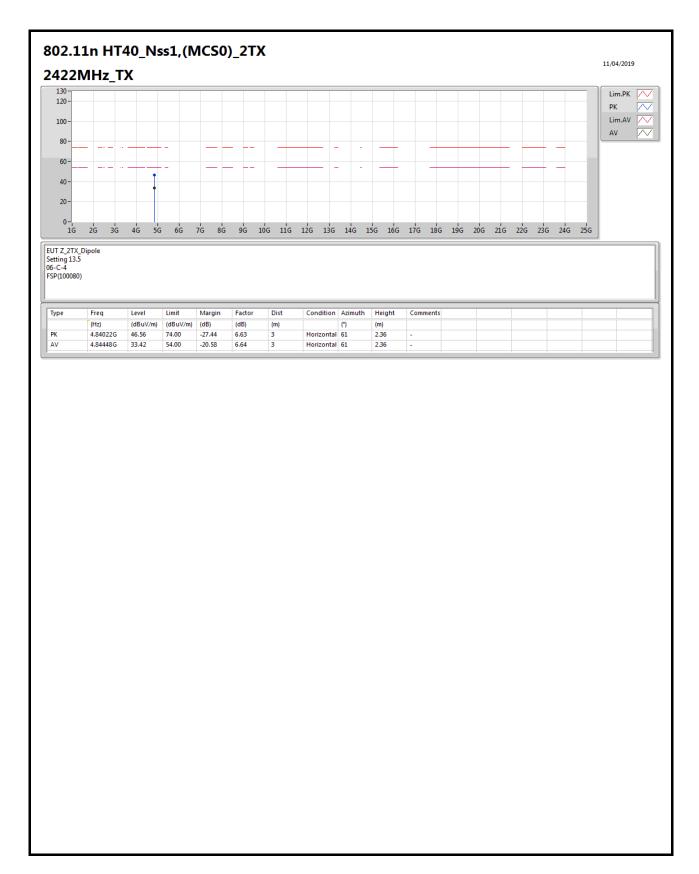




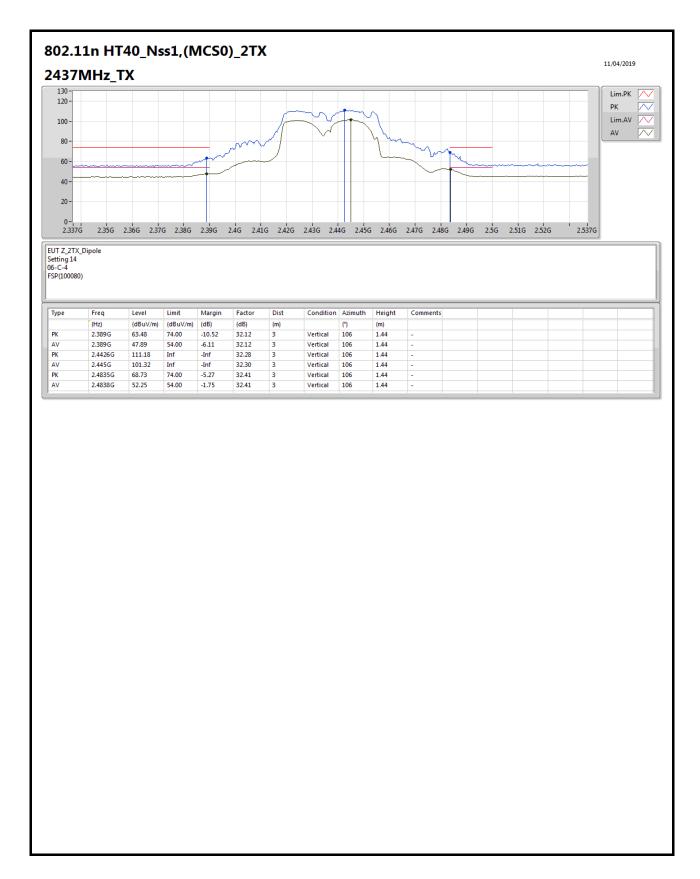




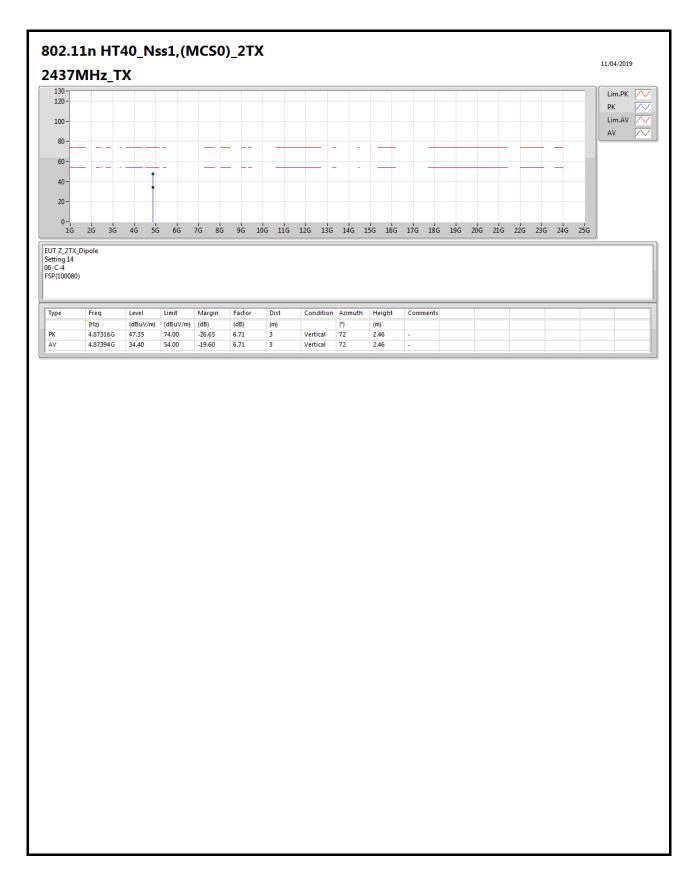




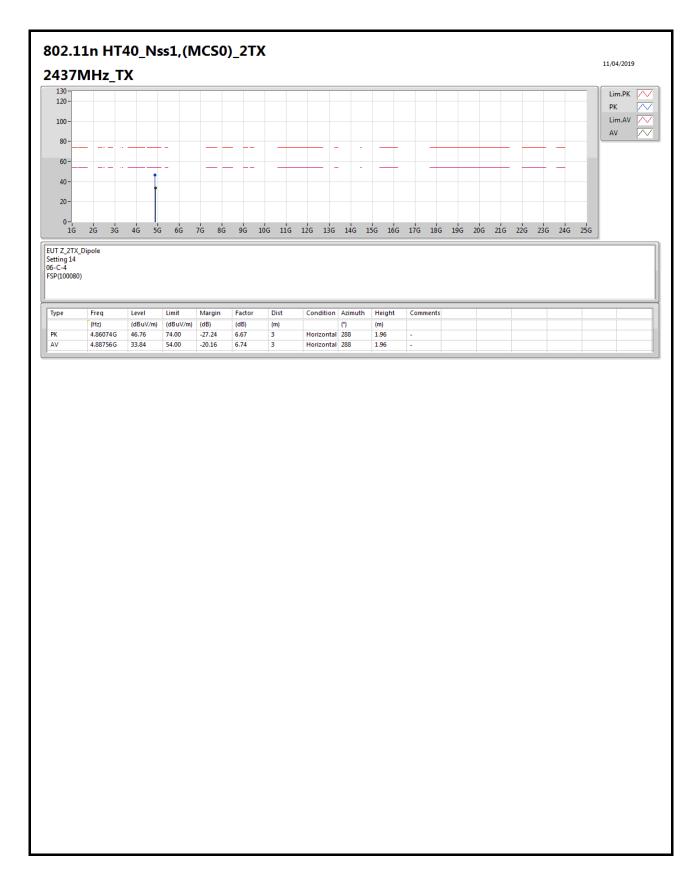




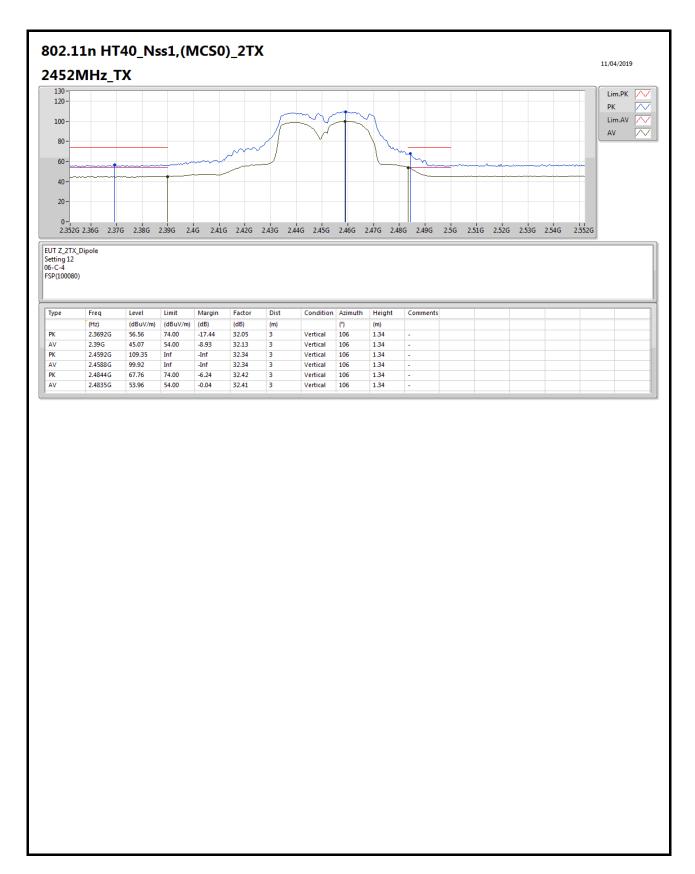




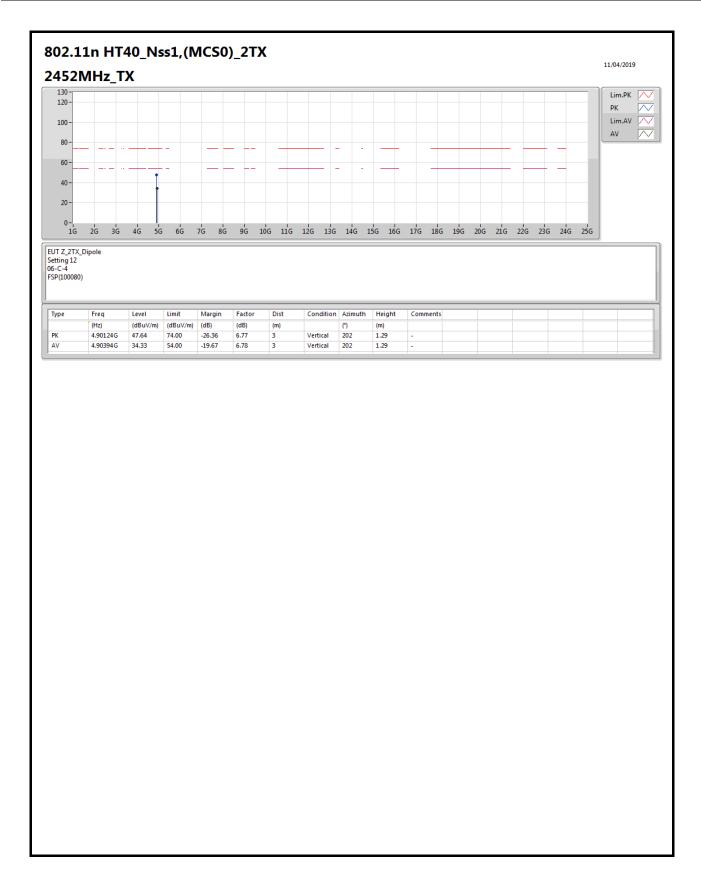




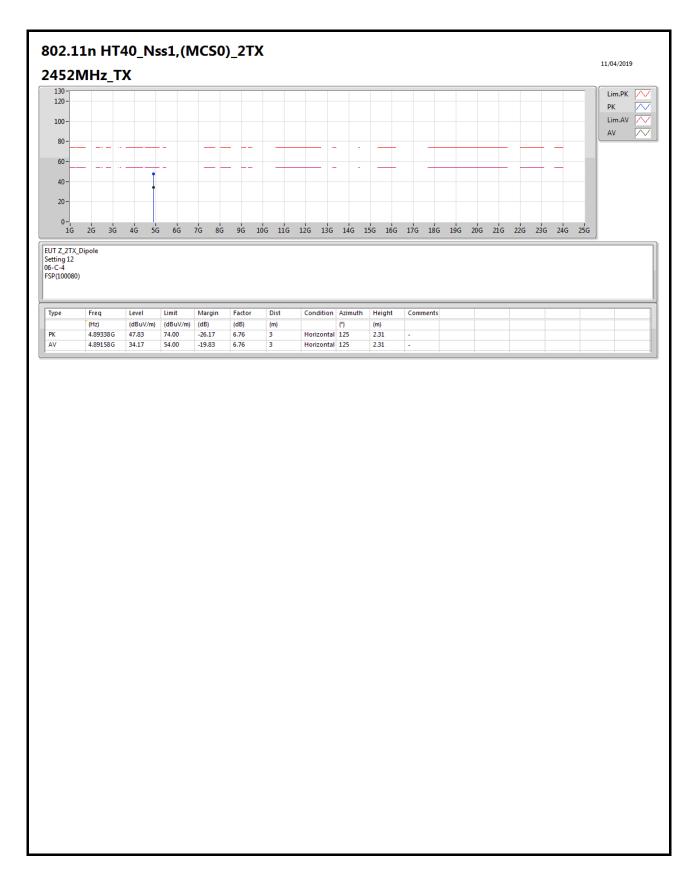




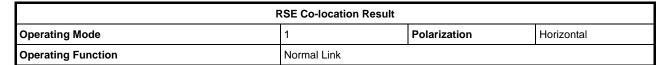


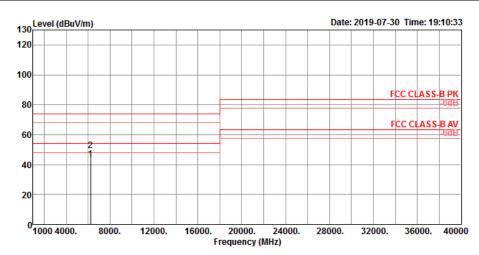


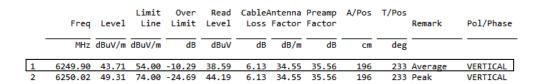




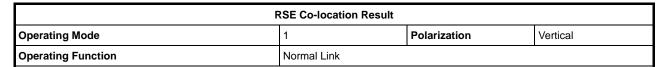


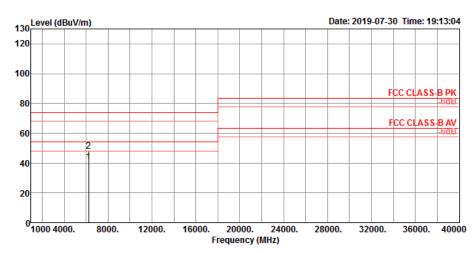












	Freq	Level						Factor	-	-	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	6249.91	40.63	54.00	-13.37	35.51	6.13	34.55	35.56	116	172	Average	HORIZONTAL
2	6250.00	48.12	74.00	-25.88	43.00	6.13	34.55	35.56	116	172	Peak	HORIZONTAL