

FCC Test Report

FCC ID : RYK-WPEA352ACNRB
Equipment : 802.11ac/b/g/n Mini PCIe Module
Brand Name : Sparklan
Model Name : WPEA-352ACNRB
WPEA-352ACNRBI
**Applicant/
Manufacturer** : SparkLAN Communications, Inc.
8F., No. 257, Sec. 2, Tiding Blvd., Neihu District,
Taipei City 11493, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 10, 2018, and testing was started from Dec. 29, 2018 and completed on Jan. 24, 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: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR8D0606AC	01	Initial issue of report	Feb. 21, 2019



Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

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:

None

Reviewed by: Jackson Tsai

Report Producer: Jenny Yang



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]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	3TX
2.4-2.4835GHz	802.11g	20	3TX
2.4-2.4835GHz	802.11n HT20	20	3TX
2.4-2.4835GHz	802.11n HT40	40	3TX

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.



1.1.2 Antenna Information

Ant.	Brand	Model	Antenna Type	Connector
1	SparkLAN	AD-103AG	Dipole	I-Pex
2	SparkLAN	AD-301N	Dipole	I-Pex
3	SparkLAN	AD-302N	Dipole	I-Pex
4	SparkLAN	AD-303N	Dipole	I-Pex
5	SparkLAN	AD-305N	Dipole	I-Pex
6	SparkLAN	AD-300N	Dipole	I-Pex

Ant.	Gain (dBi)			
	2.4G	5G		
		U-NII-1	U-NII-2A	U-NII-2C / U-NII-3
1	2.02	2.03		
2	4.4	5.2	5.8	
3	3.14	2.87		
4	3.14	3.45		
5	5	5.53		
6	3	5		

Note 1: EUT can match with above antennas for using. The higher gain (Ant. 2/5) was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (3TX/3RX)

Ant. 5 could transmit/receive simultaneously.

For 5 GHz function:

For IEEE 802.11a/n/ac mode (3TX/3RX)

U-NII-1/ U-NII-2A

Ant. 5 could transmit/receive simultaneously.

U-NII-2C/ U-NII-3

Ant. 2 could transmit/receive simultaneously.



1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Host System			
EUT Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.: ...			
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.: ...			
<input type="checkbox"/>	Other:			

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	0.997	0.013	n/a (DC>=0.98)	n/a (DC>=0.98)

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

Model Name	Description
WPEA-352ACNRB	Differences between all models are for different marketing requirement.
WPEA-352ACNRBI	



1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ KDB 558074 D01 v05r01
- ◆ KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	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
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel	22.8°C / 56%	02/Jan/2019
RF Conducted	TH01-HY	Gary	23.3°C / 63%	15/Jan/2019
Radiated	03CH02-HY	Kevin	19°C / 59.4%	24/Jan/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.3V

2.2 Test Channel Mode

Test Software Version	ART-GUI 2.3
-----------------------	-------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	21
2437MHz	17.5
2462MHz	20
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	17
2417MHz	17.5
2422MHz	19
2427MHz	20
2432MHz	21
2437MHz	22
2442MHz	21.5
2447MHz	20.5
2452MHz	19.5
2457MHz	19
2462MHz	17.5
802.11n HT20_Nss1,(MCS0)_3TX	-
2412MHz	16.5
2417MHz	17
2422MHz	17.5
2427MHz	20
2432MHz	20.5
2437MHz	22
2442MHz	21.5
2447MHz	21
2452MHz	20






Mode	Power Setting
2457MHz	19
2462MHz	17.5
802.11n HT40_Nss1,(MCS0)_3TX	-
2422MHz	12.5
2427MHz	13
2432MHz	15
2437MHz	17.5
2442MHz	17
2447MHz	15
2452MHz	14

2.3 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	Test fixture mode

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

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 EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Test fixture mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



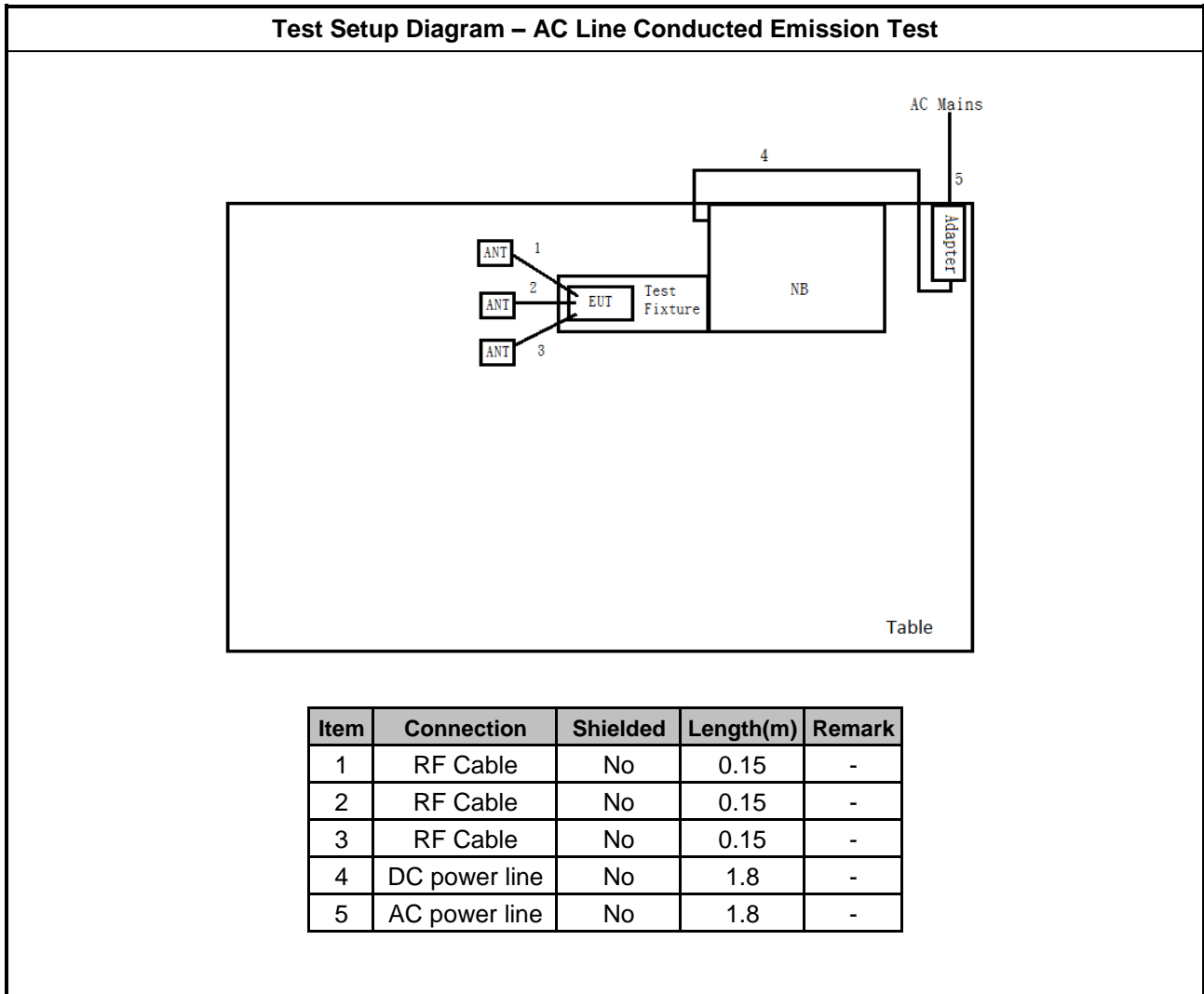
2.4 Support Equipment

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	AA90PM111	DoC
3	Test fixture	-	-	-

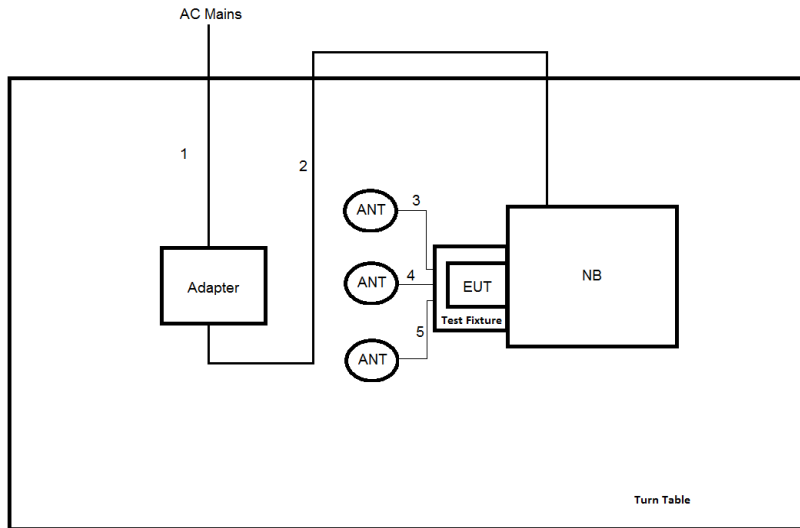
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	Test fixture	-	-	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	-
2	Adapter	DELL	LA90PS0-00	-
3	Test Fixture	-	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	2.0	-
2	DC Power line	No	2.0	-
3	RF Cable	No	0.15	-
4	RF Cable	No	0.15	-
5	RF Cable	No	0.15	-

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		
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.

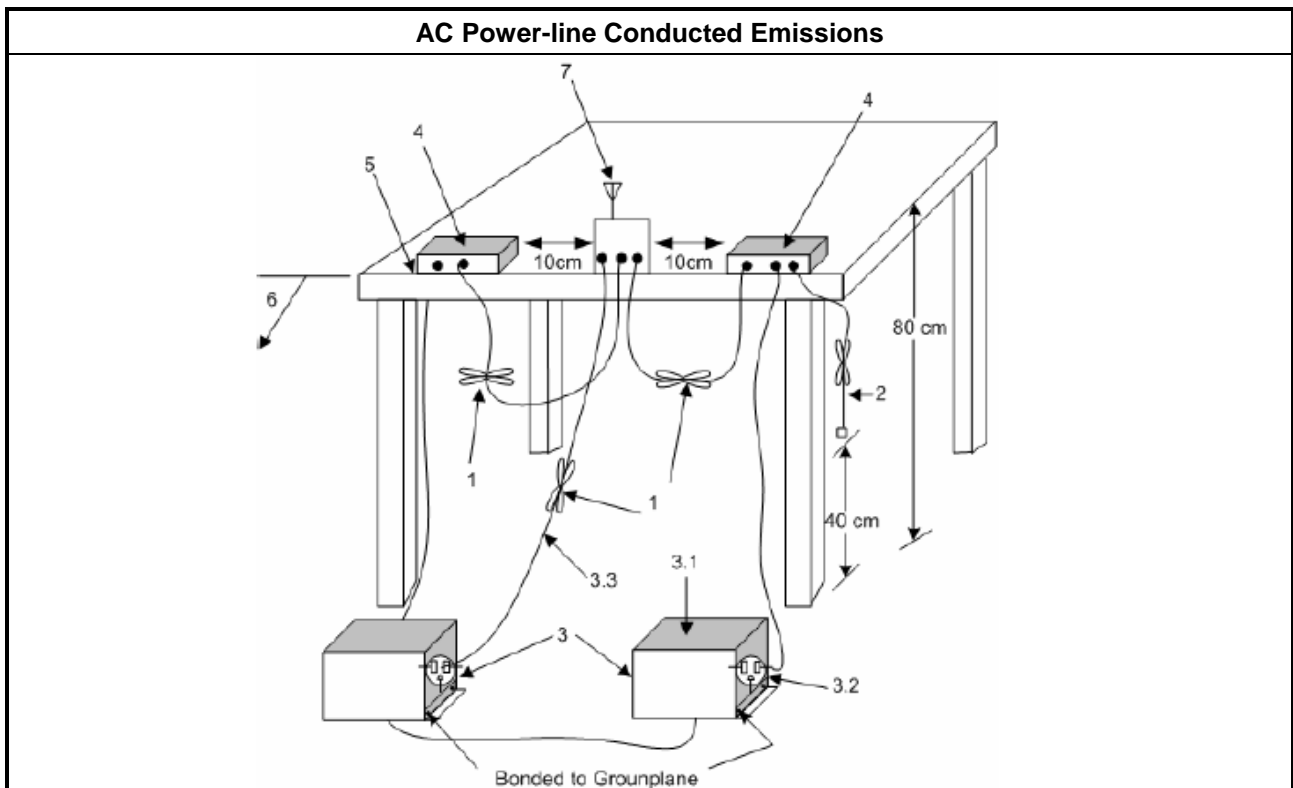
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

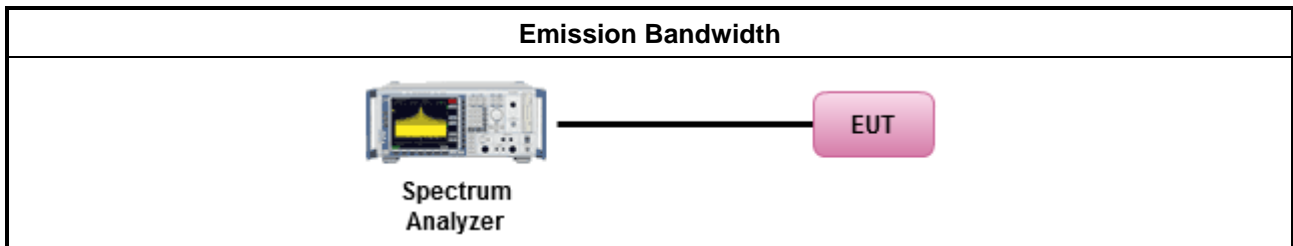
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

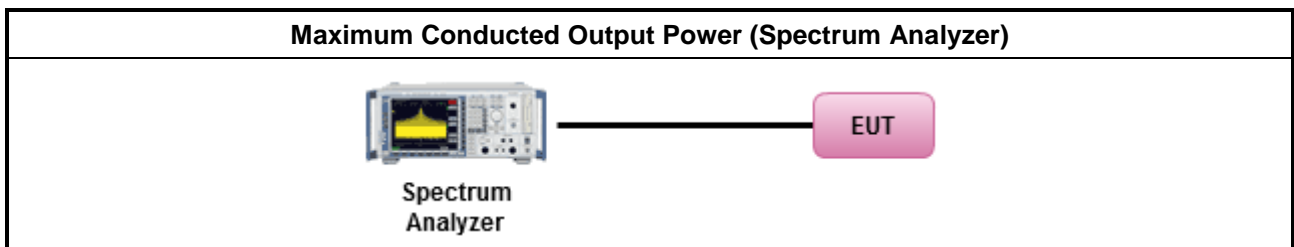
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
	<input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	<input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	<input type="checkbox"/> Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
	<input type="checkbox"/> Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
	<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as 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.
	<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

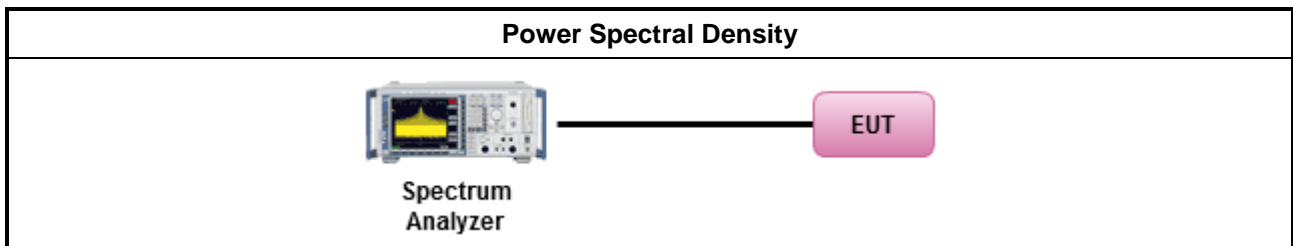
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as 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.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

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 (dB)
Peak output power procedure	20
Average output power procedure	30

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.

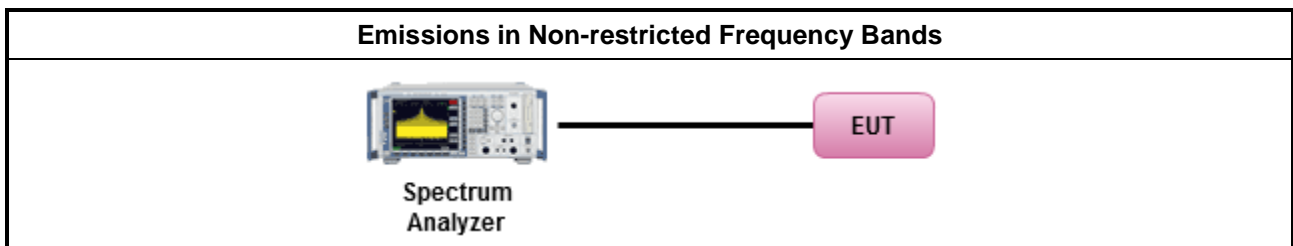
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



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 Distance (m)
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

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.

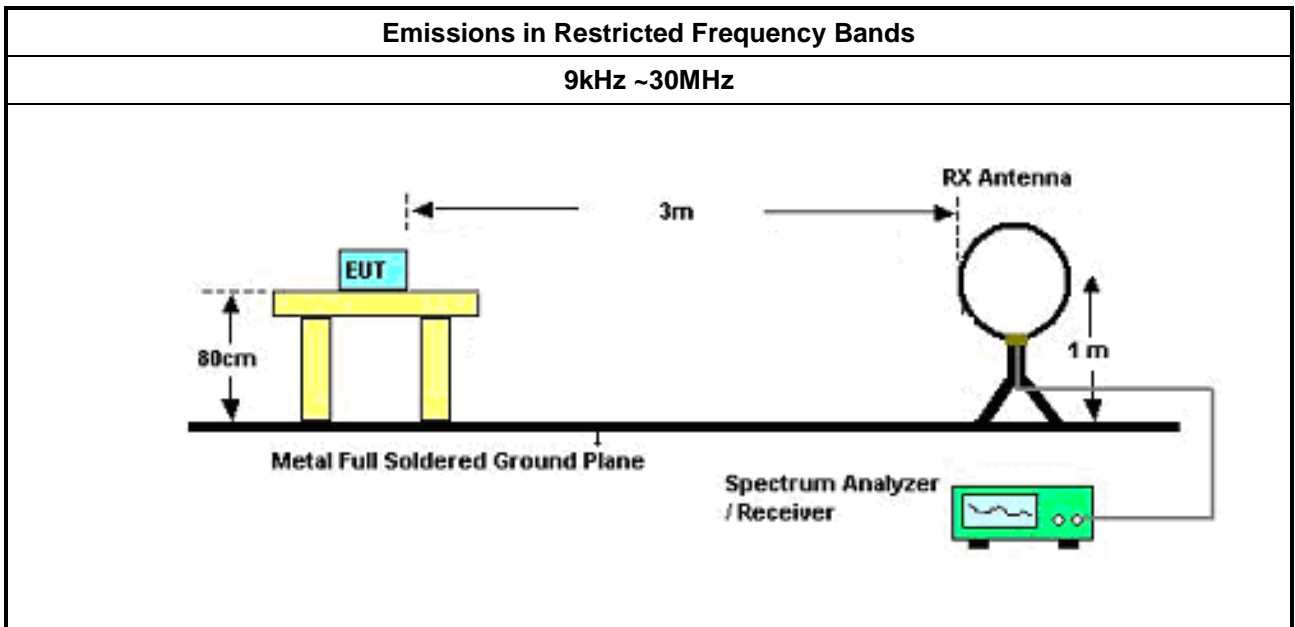
3.6.2 Measuring Instruments

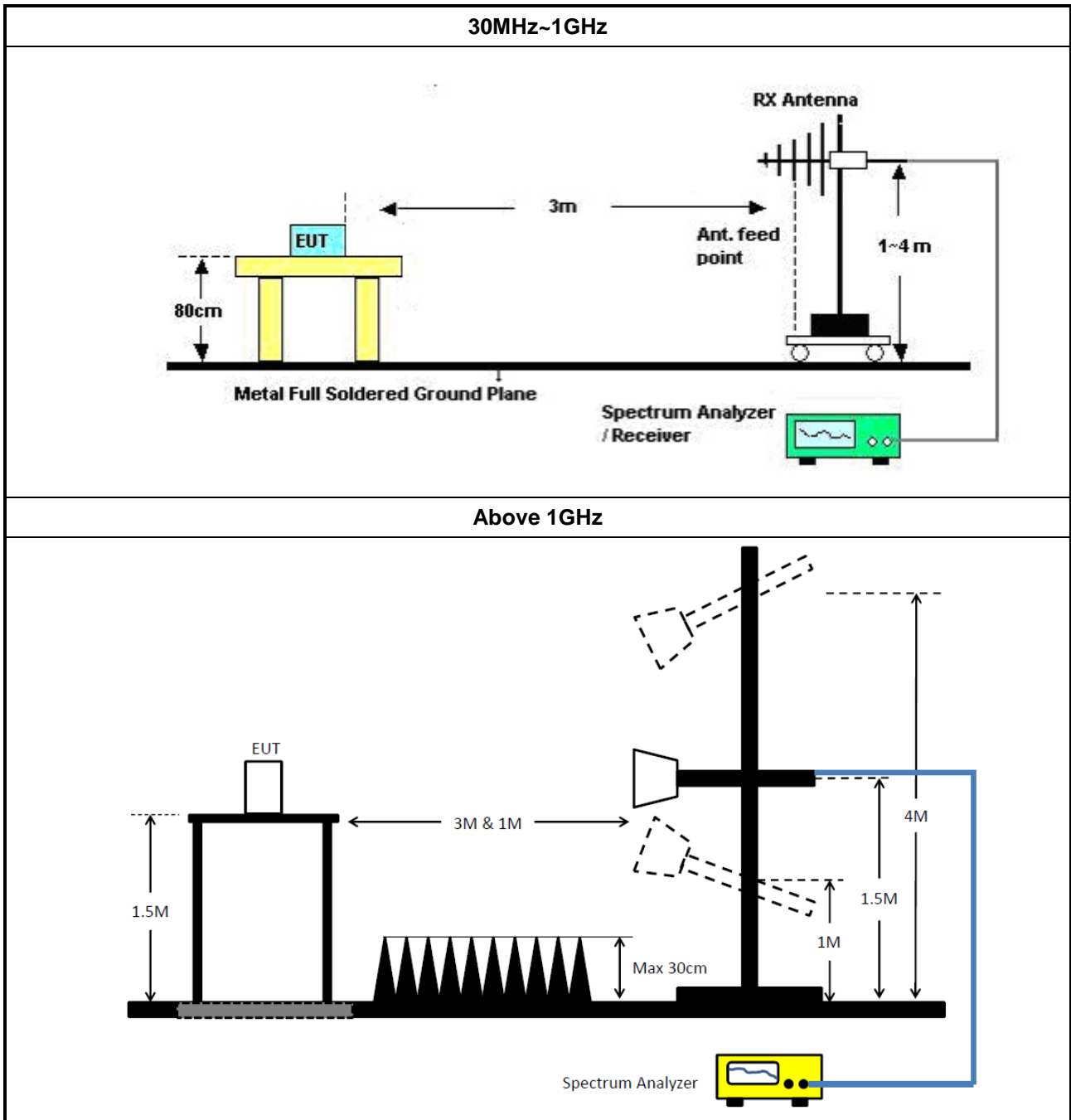
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> 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.
	<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> Refer as KDB 558074 clause 8.7.1, 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.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	<ul style="list-style-type: none"> Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.

3.6.4 Test Setup





3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	05/Feb/2018	04/Feb/2019
SMB100A Signal Generator (Note)	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	1 ~ 18GHz	17/Jan/2018	16/Jan/2019
CABLE 0.2m	HUBER	MY37960/4	RF Cable - 17	30 ~ 1000MHz	17/Jan/2018	16/Jan/2019
CABLE 0.5m	HUBER	MY37963/4	RF Cable - 22	1 ~ 18GHz	17/Jan/2018	16/Jan/2019

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

**Instrument for Radiated Test**

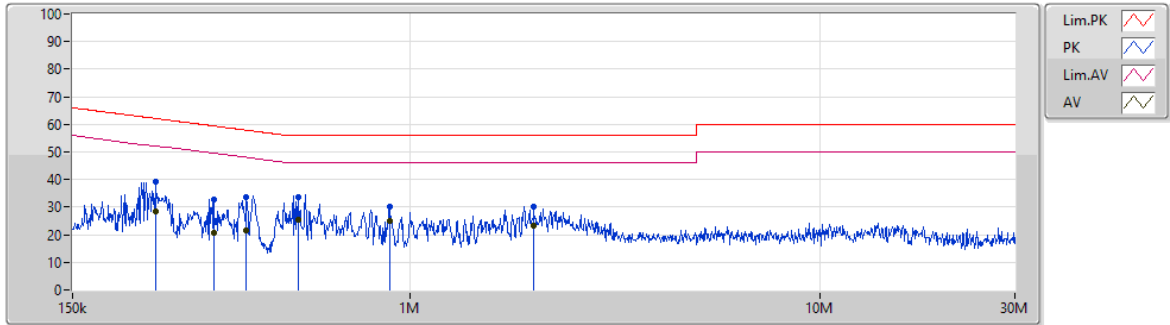
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	17/Jan/2019	16/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	17/Jan/2019	16/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/2018	17/Apr/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Test fixture Mode		

02/01/2019



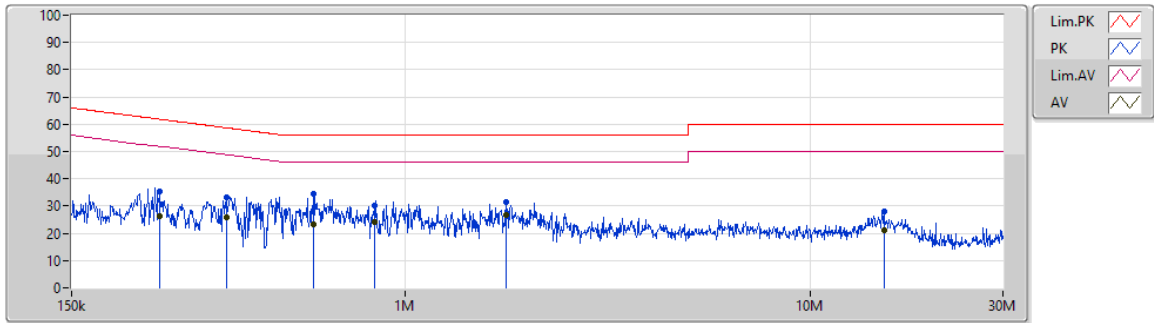
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	238.735k	39.33	62.14	-22.81	19.47	Neutral	-	19.86	9.59	0.01	9.87
AV	238.735k	28.37	52.14	-23.77	19.47	Neutral	-	8.90	9.59	0.01	9.87
QP	332.374k	32.80	59.38	-26.58	19.48	Neutral	-	13.32	9.59	0.01	9.88
AV	332.374k	20.86	49.38	-28.52	19.48	Neutral	-	1.38	9.59	0.01	9.88
QP	398.998k	33.48	57.87	-24.39	19.48	Neutral	-	14.00	9.59	0.01	9.88
AV	398.998k	21.63	47.87	-26.24	19.48	Neutral	-	2.15	9.59	0.01	9.88
QP	535.25k	33.55	56.00	-22.45	19.48	Neutral	-	14.07	9.59	0.01	9.88
AV	535.25k	25.38	46.00	-20.62	19.48	Neutral	"Worst"	5.90	9.59	0.01	9.88
QP	892.91k	30.22	56.00	-25.78	19.49	Neutral	-	10.73	9.59	0.02	9.88
AV	892.91k	24.98	46.00	-21.02	19.49	Neutral	-	5.49	9.59	0.02	9.88
QP	2.003M	30.16	56.00	-25.84	19.53	Neutral	-	10.63	9.61	0.03	9.89
AV	2.003M	23.25	46.00	-22.75	19.53	Neutral	-	3.72	9.61	0.03	9.89



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Test fixture Mode		

02/01/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	247.199k	35.15	61.85	-26.70	19.48	Line	-	15.67	9.60	0.01	9.87
AV	247.199k	26.11	51.85	-25.74	19.48	Line	-	6.63	9.60	0.01	9.87
QP	362.878k	33.15	58.66	-25.51	19.48	Line	-	13.67	9.59	0.01	9.88
AV	362.878k	25.85	48.66	-22.81	19.48	Line	-	6.37	9.59	0.01	9.88
QP	595.962k	34.42	56.00	-21.58	19.48	Line	-	14.94	9.59	0.01	9.88
AV	595.962k	23.18	46.00	-22.82	19.48	Line	-	3.70	9.59	0.01	9.88
QP	843.328k	30.38	56.00	-25.62	19.50	Line	-	10.88	9.60	0.02	9.88
AV	843.328k	24.23	46.00	-21.77	19.50	Line	-	4.73	9.60	0.02	9.88
QP	1.775M	31.32	56.00	-24.68	19.54	Line	-	11.78	9.62	0.03	9.89
AV	1.775M	26.81	46.00	-19.19	19.54	Line	"Worst"	7.27	9.62	0.03	9.89
QP	15.276M	27.85	60.00	-32.15	19.64	Line	-	8.21	9.65	0.09	9.90
AV	15.276M	21.30	50.00	-28.70	19.64	Line	-	1.66	9.65	0.09	9.90



Summary

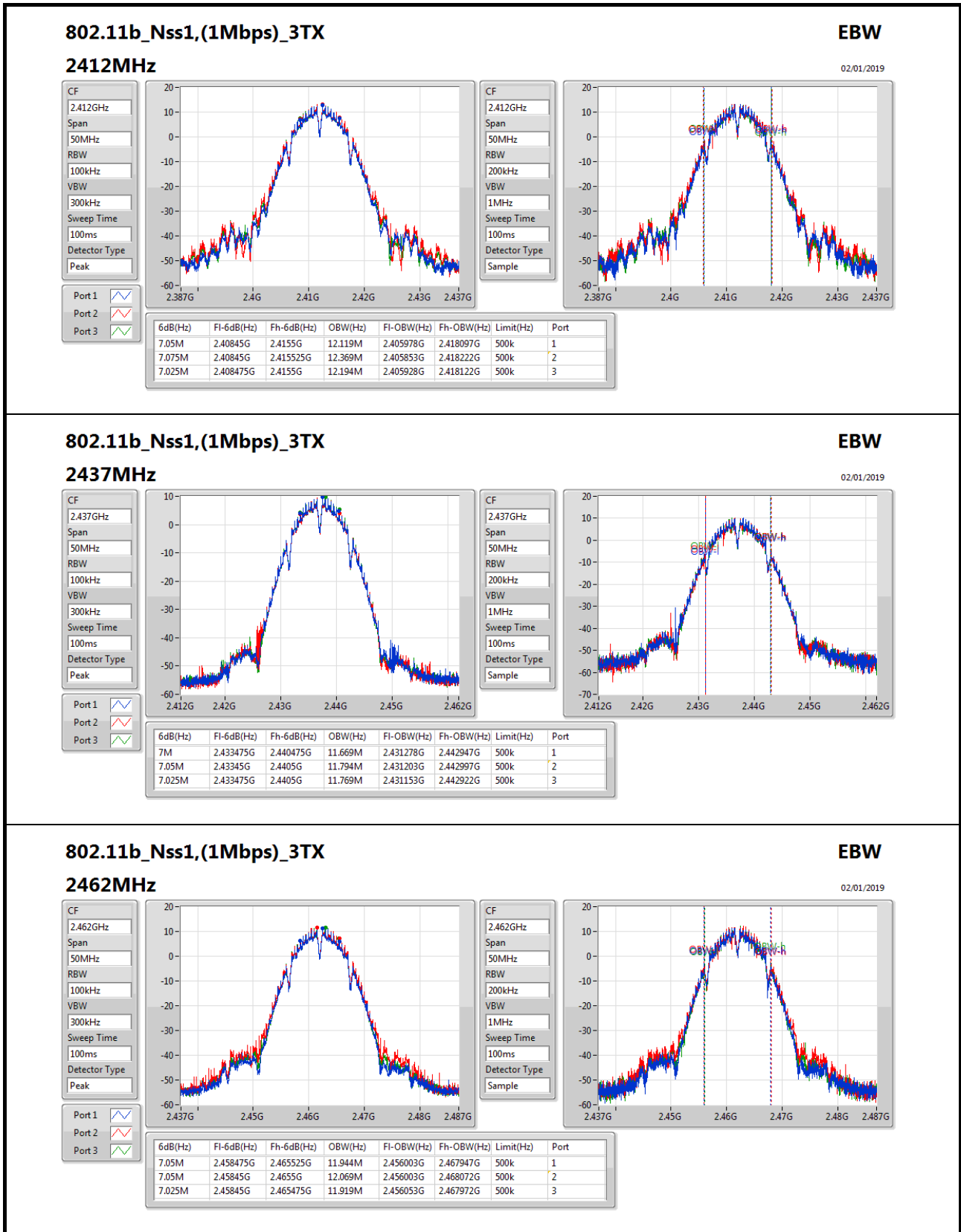
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	7.075M	12.369M	12M4G1D	7M	11.669M
802.11g_Nss1,(6Mbps)_3TX	16.525M	17.041M	17M0D1D	16.3M	16.417M
802.11n HT20_Nss1,(MCS0)_3TX	17.575M	18.091M	18M1D1D	16.9M	17.641M
802.11n HT40_Nss1,(MCS0)_3TX	36.45M	36.332M	36M3D1D	36.05M	36.032M

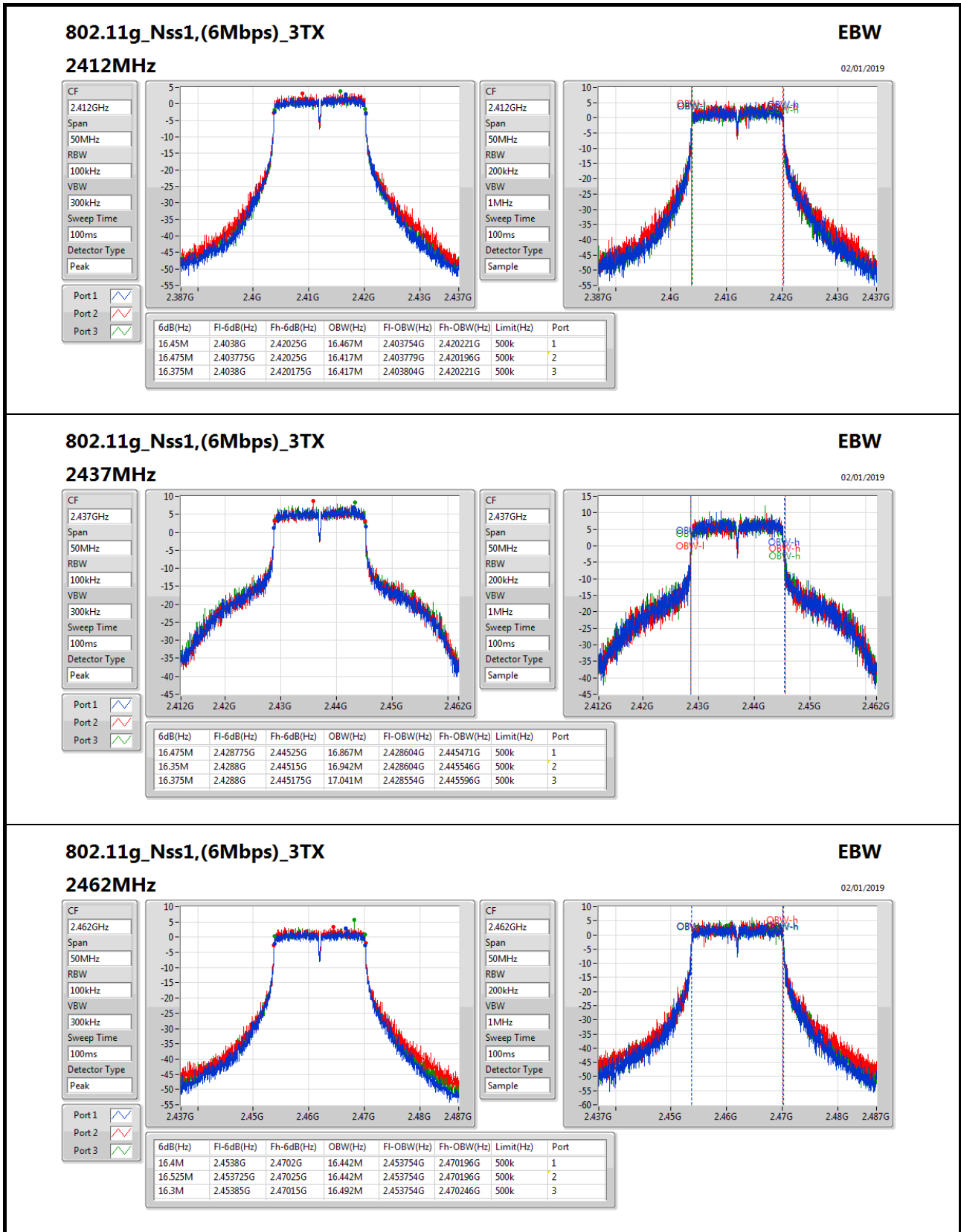
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

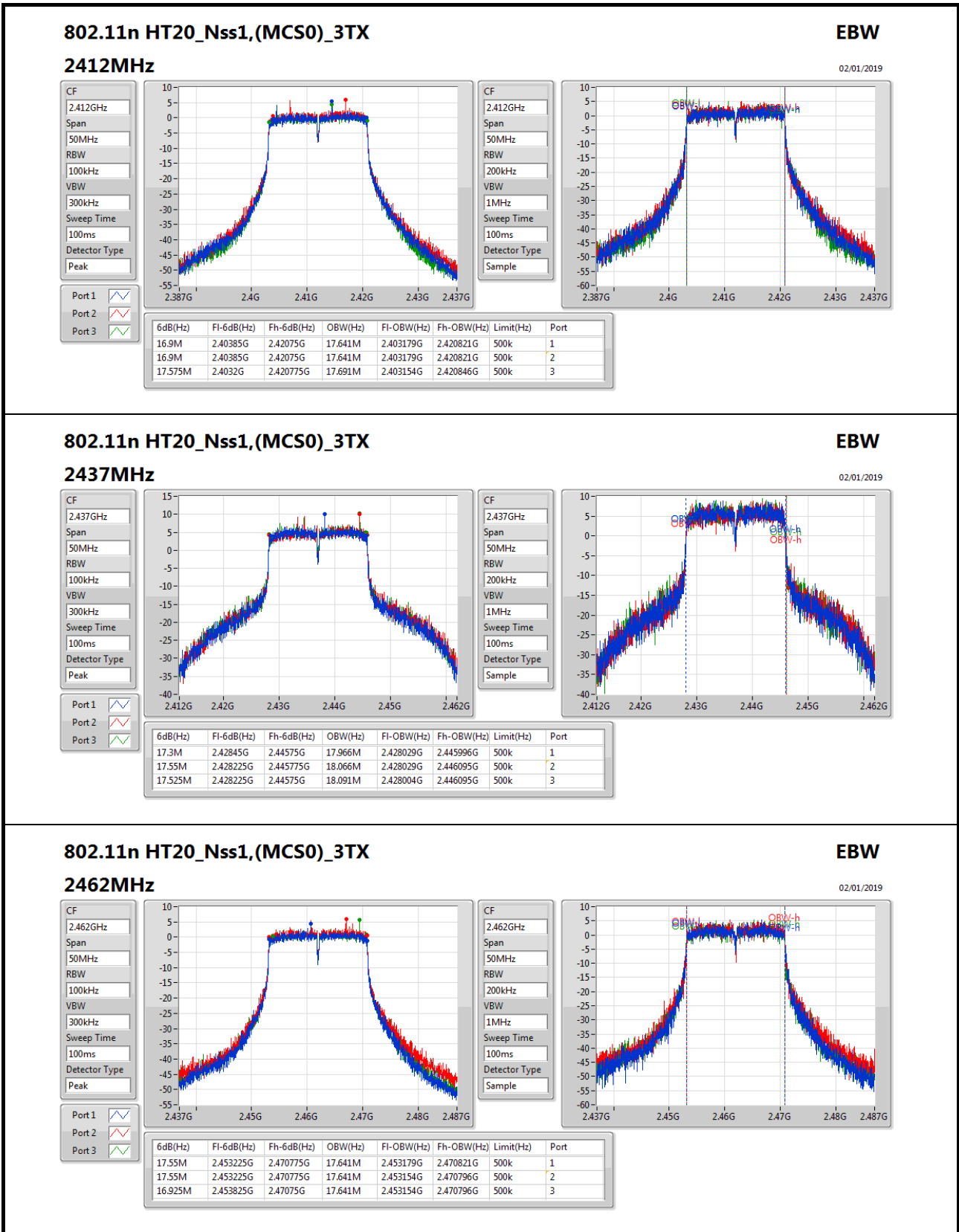
Result

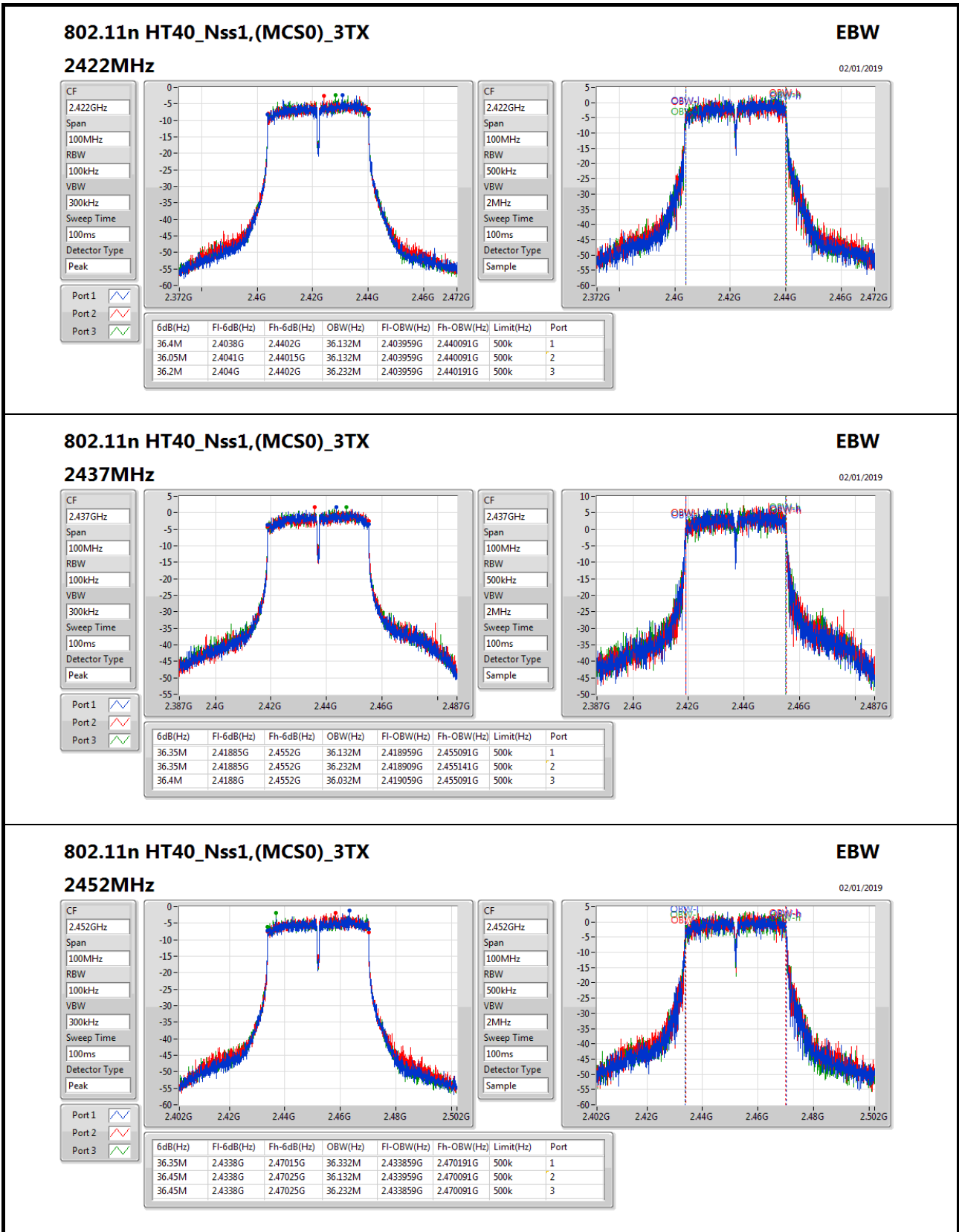
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	7.05M	12.119M	7.075M	12.369M	7.025M	12.194M
2437MHz_TnomVnom	Pass	500k	7M	11.669M	7.05M	11.794M	7.025M	11.769M
2462MHz_TnomVnom	Pass	500k	7.05M	11.944M	7.05M	12.069M	7.025M	11.919M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.45M	16.467M	16.475M	16.417M	16.375M	16.417M
2437MHz_TnomVnom	Pass	500k	16.475M	16.867M	16.35M	16.942M	16.375M	17.041M
2462MHz_TnomVnom	Pass	500k	16.4M	16.442M	16.525M	16.442M	16.3M	16.492M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.9M	17.641M	16.9M	17.641M	17.575M	17.691M
2437MHz_TnomVnom	Pass	500k	17.3M	17.966M	17.55M	18.066M	17.525M	18.091M
2462MHz_TnomVnom	Pass	500k	17.55M	17.641M	17.55M	17.641M	16.925M	17.641M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	36.4M	36.132M	36.05M	36.132M	36.2M	36.232M
2437MHz_TnomVnom	Pass	500k	36.35M	36.132M	36.35M	36.232M	36.4M	36.032M
2452MHz_TnomVnom	Pass	500k	36.35M	36.332M	36.45M	36.132M	36.45M	36.232M

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











Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	25.61	0.36392
802.11g_Nss1,(6Mbps)_3TX	25.93	0.39174
802.11n HT20_Nss1,(MCS0)_3TX	25.82	0.38194
802.11n HT40_Nss1,(MCS0)_3TX	21.59	0.14421

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.00	20.64	21.08	20.78	25.61	30.00
2437MHz	Pass	5.00	17.56	17.49	17.71	22.36	30.00
2462MHz	Pass	5.00	19.19	19.96	19.60	24.37	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.00	16.75	17.24	17.02	21.78	30.00
2417MHz	Pass	5.00	17.43	17.76	17.52	22.34	30.00
2422MHz	Pass	5.00	18.76	18.90	18.94	23.64	30.00
2427MHz	Pass	5.00	19.75	19.72	19.63	24.47	30.00
2432MHz	Pass	5.00	20.46	20.42	20.49	25.23	30.00
2437MHz	Pass	5.00	21.17	20.99	21.30	25.93	30.00
2442MHz	Pass	5.00	20.77	20.70	20.86	25.55	30.00
2447MHz	Pass	5.00	20.01	20.08	20.04	24.81	30.00
2452MHz	Pass	5.00	19.00	19.37	19.01	23.90	30.00
2457MHz	Pass	5.00	18.36	18.89	18.43	23.34	30.00
2462MHz	Pass	5.00	16.72	17.37	17.04	21.82	30.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	5.00	16.21	16.87	16.48	21.30	30.00
2417MHz	Pass	5.00	16.93	17.24	16.95	21.81	30.00
2422MHz	Pass	5.00	17.35	17.68	17.37	22.24	30.00
2427MHz	Pass	5.00	19.72	19.73	19.72	24.49	30.00
2432MHz	Pass	5.00	20.14	20.02	20.20	24.89	30.00
2437MHz	Pass	5.00	21.01	20.99	21.14	25.82	30.00
2442MHz	Pass	5.00	20.89	20.80	20.88	25.63	30.00
2447MHz	Pass	5.00	20.40	20.39	20.30	25.13	30.00
2452MHz	Pass	5.00	19.43	19.78	19.61	24.38	30.00
2457MHz	Pass	5.00	18.47	18.96	18.52	23.43	30.00
2462MHz	Pass	5.00	16.61	17.35	17.07	21.79	30.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	5.00	12.10	12.16	12.43	17.00	30.00
2427MHz	Pass	5.00	12.62	12.52	12.84	17.43	30.00
2432MHz	Pass	5.00	14.48	14.37	14.69	19.29	30.00
2437MHz	Pass	5.00	16.78	16.73	16.93	21.59	30.00
2442MHz	Pass	5.00	16.36	16.37	16.51	21.19	30.00
2447MHz	Pass	5.00	14.24	14.47	14.47	19.17	30.00



AV Power Result

Appendix C

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
2452MHz	Pass	5.00	13.20	13.48	13.44	18.15	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)_3TX	1.33
802.11g_Nss1,(6Mbps)_3TX	-2.67
802.11n HT20_Nss1,(MCS0)_3TX	-2.43
802.11n HT40_Nss1,(MCS0)_3TX	-9.68

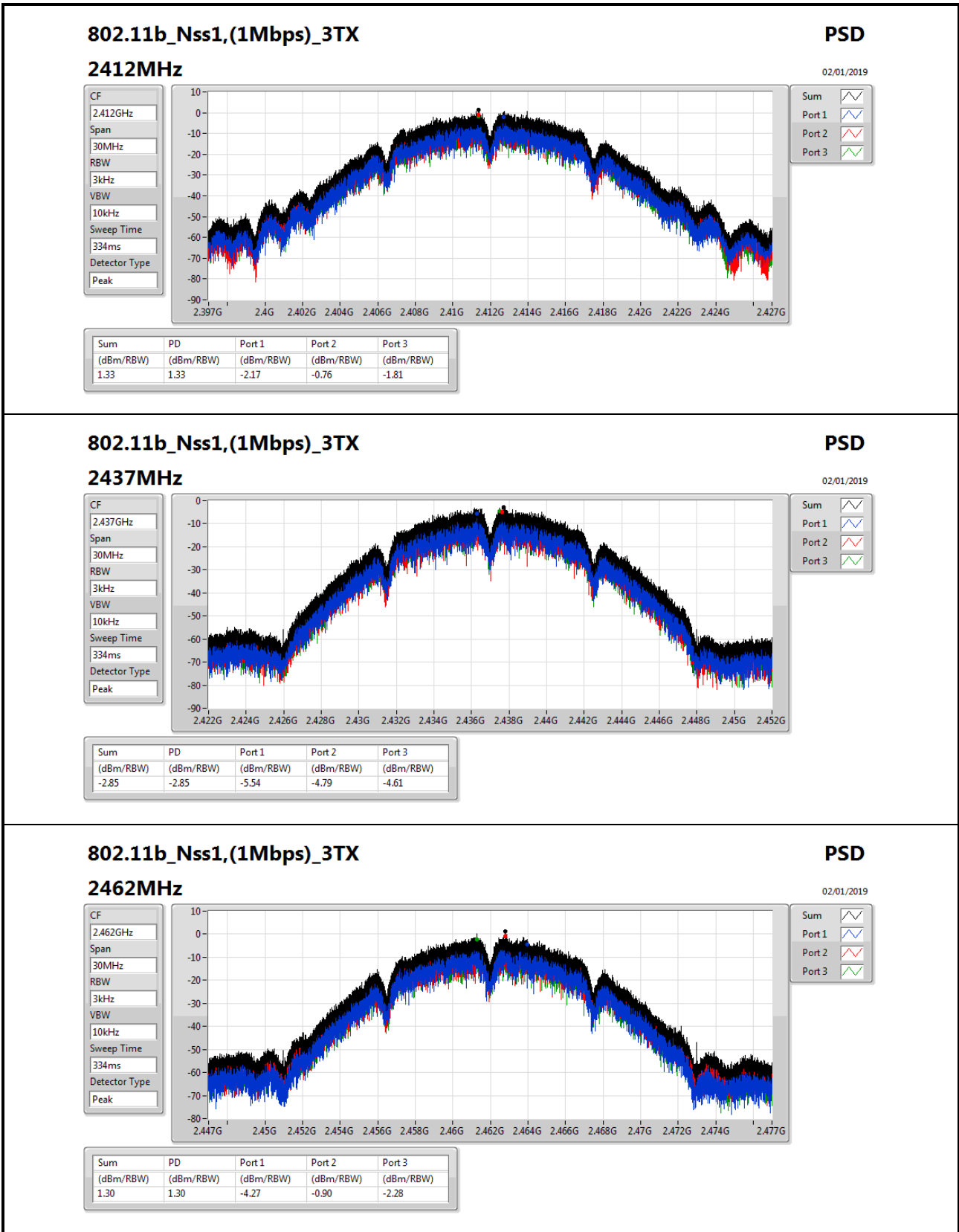
RBW=3kHz.

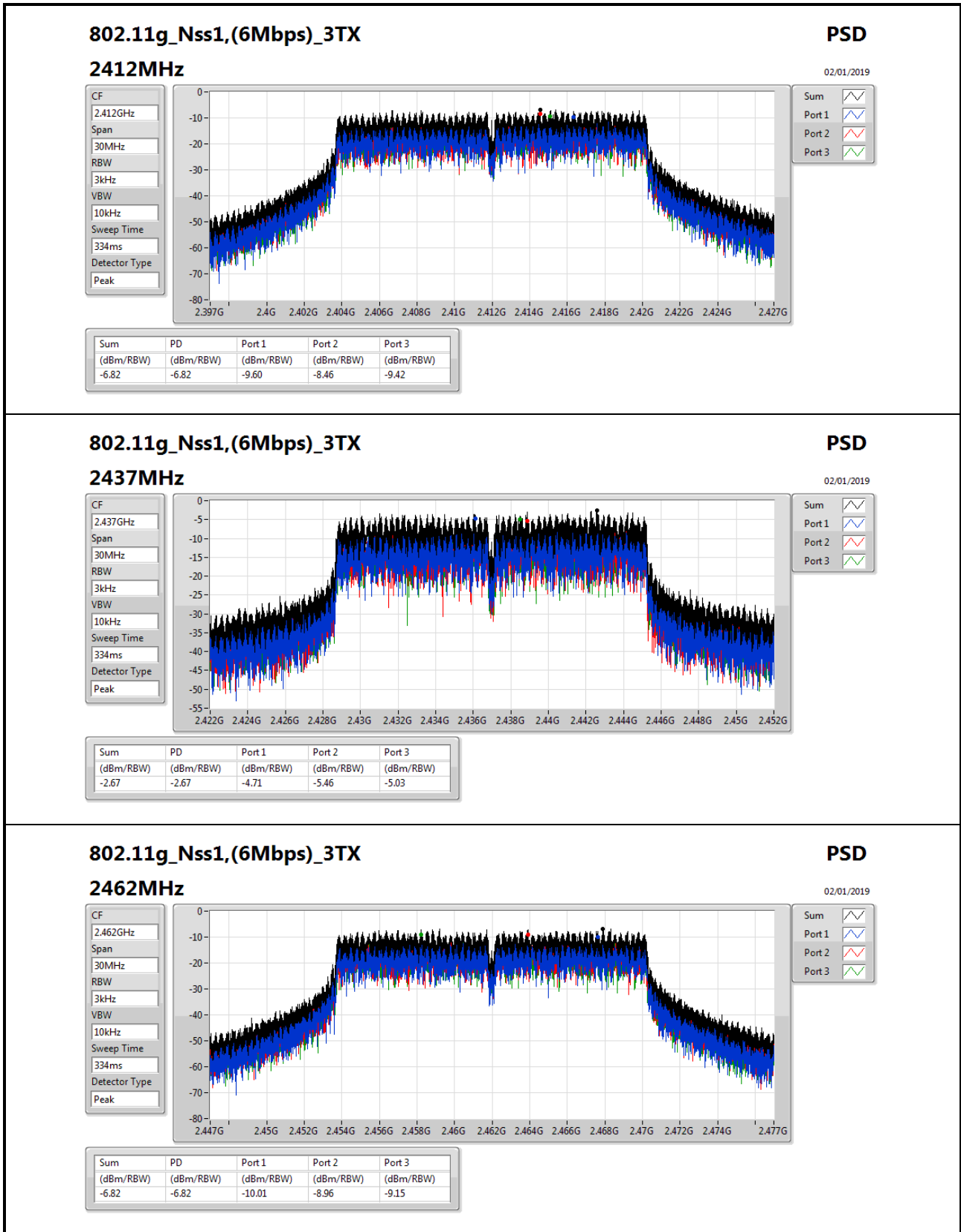
Result

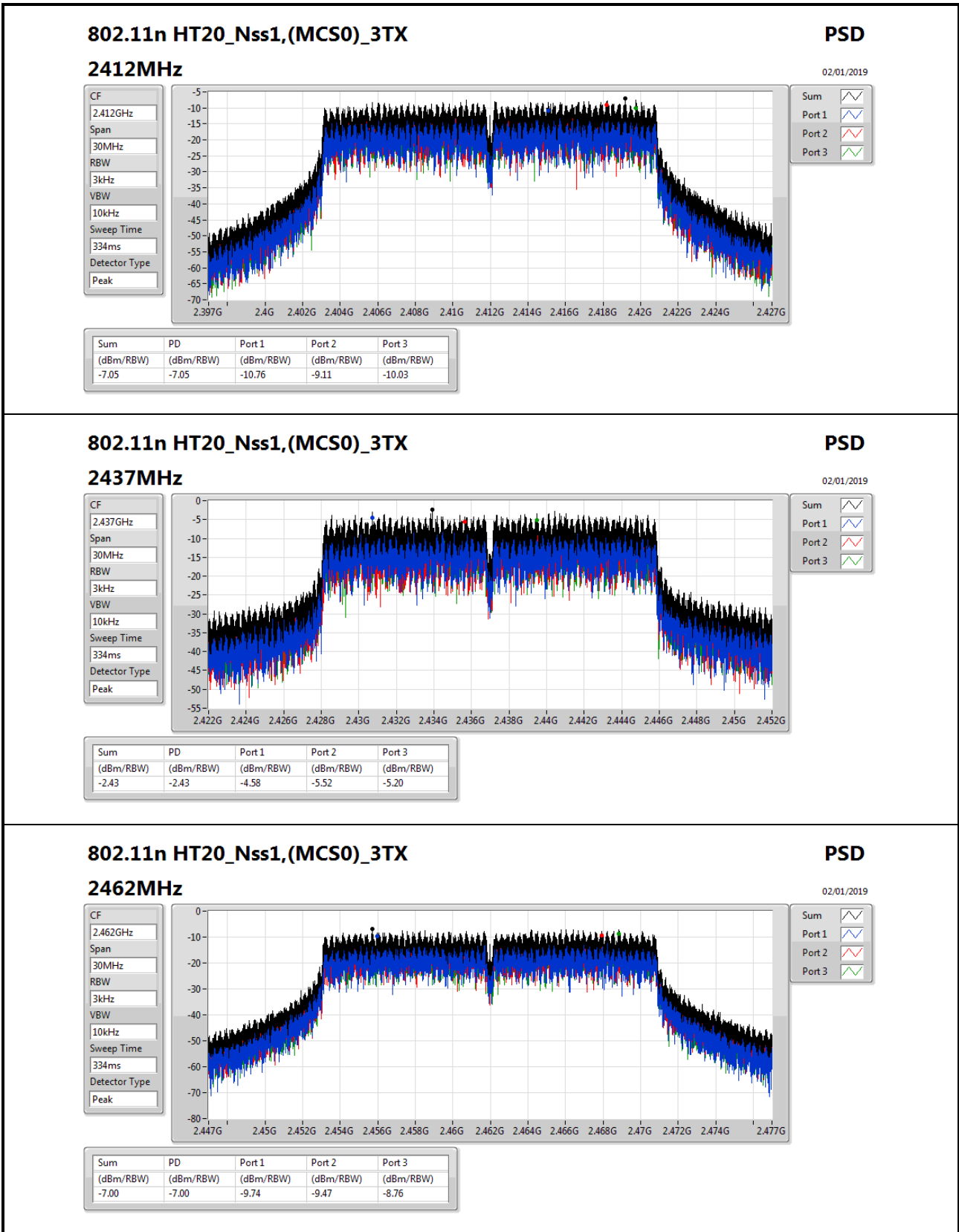
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	9.77	-2.17	-0.76	-1.81	1.33	4.23
2437MHz	Pass	9.77	-5.54	-4.79	-4.61	-2.85	4.23
2462MHz	Pass	9.77	-4.27	-0.90	-2.28	1.30	4.23
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	9.77	-9.60	-8.46	-9.42	-6.82	4.23
2437MHz	Pass	9.77	-4.71	-5.46	-5.03	-2.67	4.23
2462MHz	Pass	9.77	-10.01	-8.96	-9.15	-6.82	4.23
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	9.77	-10.76	-9.11	-10.03	-7.05	4.23
2437MHz	Pass	9.77	-4.58	-5.52	-5.20	-2.43	4.23
2462MHz	Pass	9.77	-9.74	-9.47	-8.76	-7.00	4.23
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	9.77	-16.87	-16.53	-15.38	-13.50	4.23
2437MHz	Pass	9.77	-11.96	-12.91	-11.89	-9.68	4.23
2452MHz	Pass	9.77	-13.86	-14.70	-15.64	-11.74	4.23

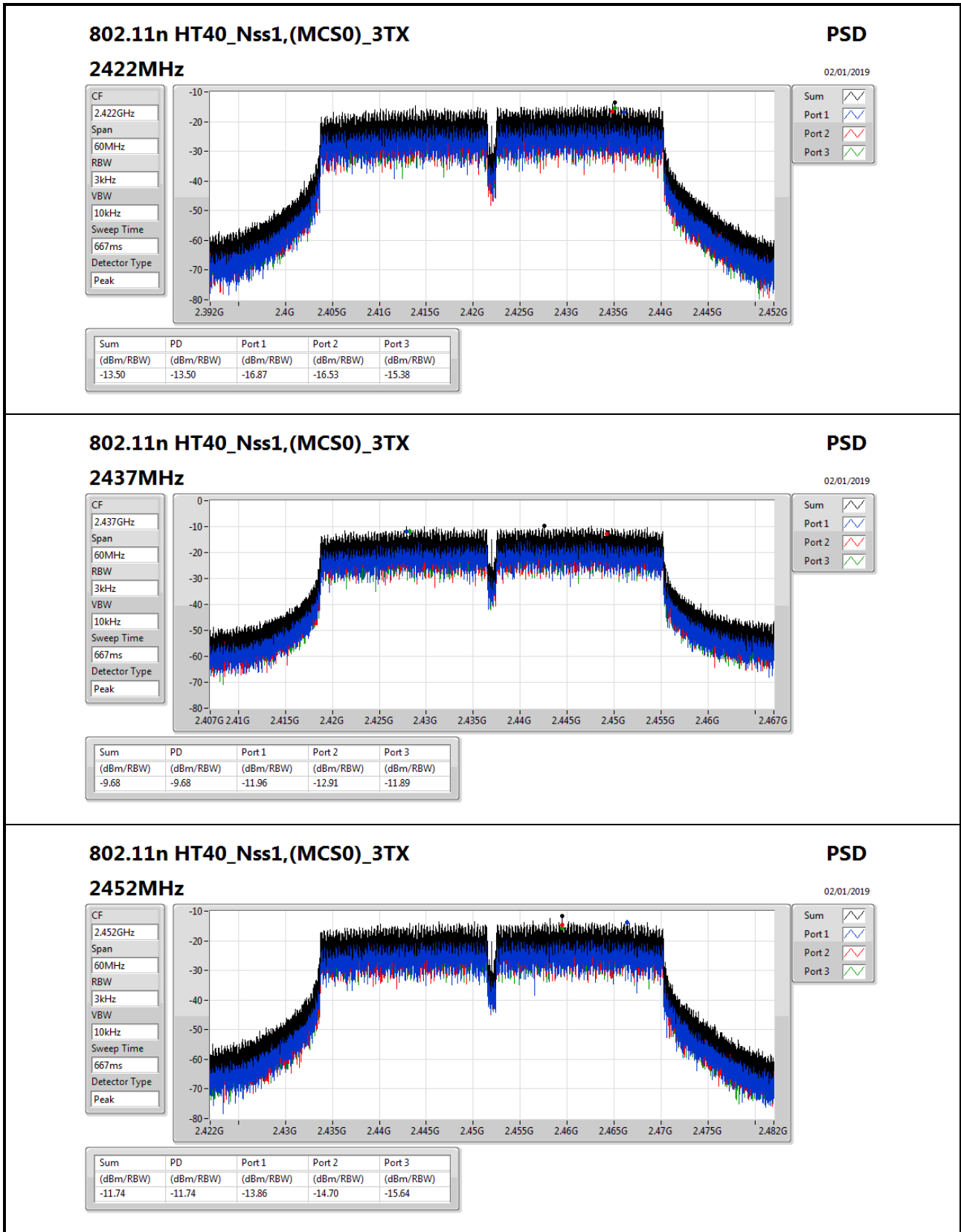
DG = Directional Gain; RBW=3kHz;

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 (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	2.41148G	13.31	-16.69	1.82701G	-44.64	2.39414G	-42.22	2.51362G	-43.12	23.58117G	-28.89	2
802.11g_Nss1,(6Mbps)_3TX	Pass	2.43574G	7.79	-22.21	2.12438G	-44.15	2.39982G	-27.34	2.49592G	-43.28	24.5589G	-29.13	2
802.11n HT20_Nss1,(MCS0)_3TX	Pass	2.44221G	7.10	-22.90	2.13516G	-44.63	2.39986G	-27.65	2.52224G	-42.21	23.44631G	-29.80	2
802.11n HT40_Nss1,(MCS0)_3TX	Pass	2.43449G	2.36	-27.64	2.18604G	-44.84	2.39504G	-44.77	2.48422G	-42.24	24.40263G	-29.08	3

Result

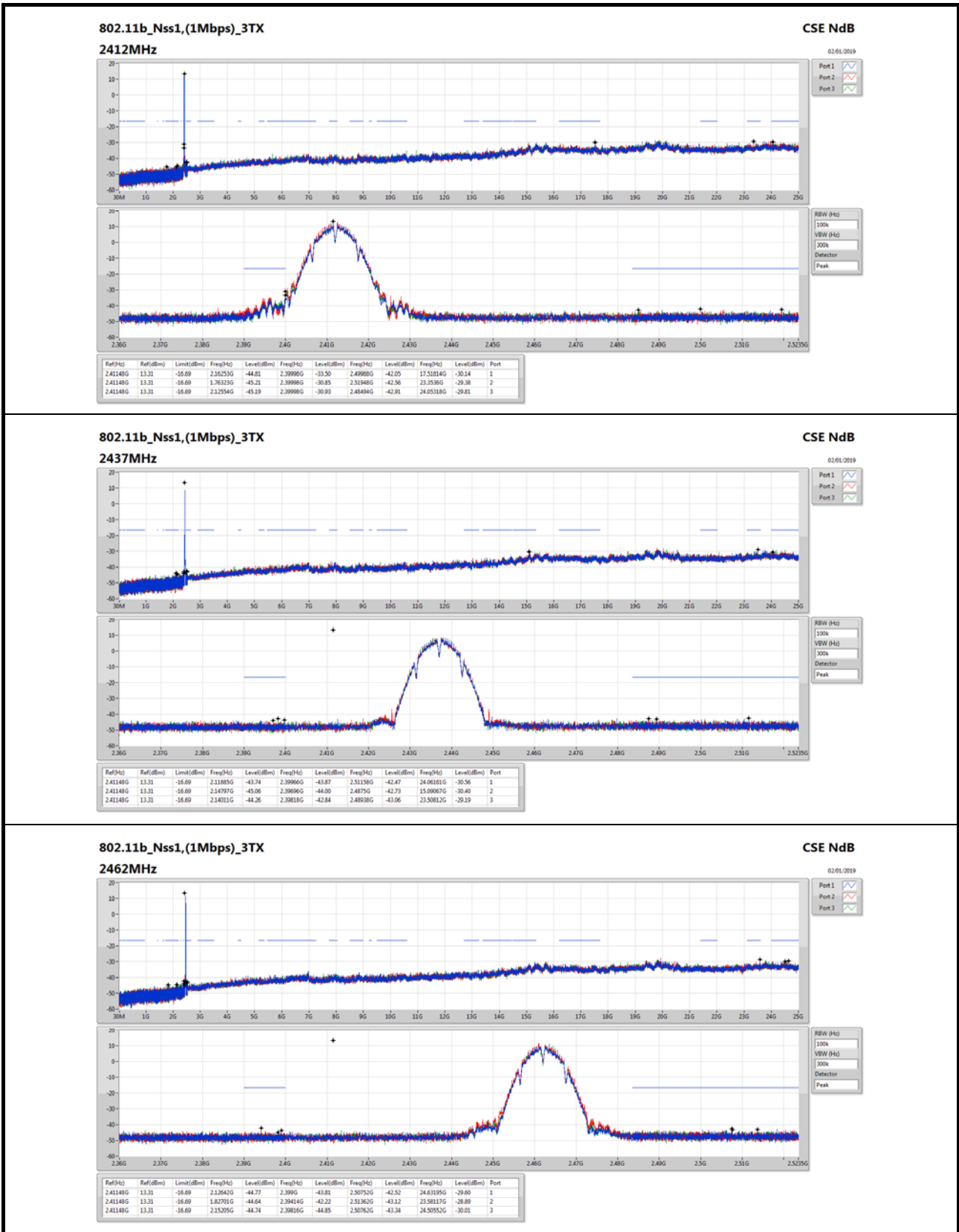
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.16253G	-44.81	2.39998G	-33.50	2.49988G	-42.05	17.51814G	-30.14	1
2412MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	1.76323G	-45.21	2.39998G	-30.85	2.51948G	-42.56	23.3536G	-29.38	2
2412MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.12554G	-45.19	2.39998G	-30.93	2.48494G	-42.91	24.05318G	-29.81	3
2437MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.11885G	-43.74	2.39966G	-43.87	2.51158G	-42.47	24.06161G	-30.56	1
2437MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.14797G	-45.06	2.39696G	-44.00	2.4875G	-42.73	15.09067G	-30.40	2
2437MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.14011G	-44.26	2.39818G	-42.84	2.48938G	-43.06	23.50812G	-29.19	3
2462MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.12642G	-44.77	2.399G	-43.81	2.50752G	-42.52	24.63195G	-29.60	1
2462MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	1.82701G	-44.64	2.39414G	-42.22	2.51362G	-43.12	23.58117G	-28.89	2
2462MHz_TnomVnom	Pass	2.41148G	13.31	-16.69	2.15205G	-44.74	2.39816G	-44.85	2.50762G	-43.34	24.50552G	-30.01	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	1.99739G	-45.14	2.39986G	-29.28	2.52098G	-42.57	24.2948G	-30.01	1
2412MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.12438G	-44.15	2.39982G	-27.34	2.49592G	-43.28	24.5589G	-29.13	2
2412MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.30961G	-45.35	2.39954G	-28.40	2.51814G	-43.53	24.49428G	-30.59	3
2437MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.16894G	-43.94	2.39946G	-38.72	2.48438G	-42.01	24.03913G	-30.07	1
2437MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.14622G	-45.13	2.3995G	-37.89	2.48424G	-41.93	24.53923G	-29.11	2
2437MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.09001G	-45.17	2.39824G	-36.48	2.48718G	-42.19	24.46056G	-29.79	3
2462MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.12933G	-43.61	2.39632G	-43.88	2.48616G	-43.09	24.06723G	-30.19	1
2462MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.30525G	-44.48	2.39098G	-43.54	2.48482G	-39.93	24.10375G	-30.45	2
2462MHz_TnomVnom	Pass	2.43574G	7.79	-22.21	2.15962G	-44.50	2.3973G	-43.97	2.48428G	-42.56	24.44652G	-29.51	3
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.18001G	-45.00	2.39986G	-28.51	2.51058G	-43.19	24.35661G	-30.02	1
2412MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.13516G	-44.63	2.39986G	-27.65	2.52224G	-42.21	23.44631G	-29.80	2
2412MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	1.94759G	-44.91	2.39984G	-30.18	2.49346G	-42.74	23.5025G	-29.78	3
2437MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.14331G	-44.84	2.39956G	-38.60	2.49702G	-43.21	24.04194G	-29.49	1
2437MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.13312G	-45.21	2.39914G	-38.30	2.48546G	-41.16	23.55588G	-28.71	2
2437MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.17913G	-45.18	2.3985G	-35.84	2.48756G	-42.10	15.3323G	-29.73	3
2462MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.13865G	-44.82	2.3969G	-43.70	2.48506G	-42.19	24.45494G	-30.45	1
2462MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.17156G	-44.60	2.39072G	-43.81	2.48388G	-39.32	24.3819G	-29.72	2
2462MHz_TnomVnom	Pass	2.44221G	7.10	-22.90	2.01137G	-44.28	2.39118G	-44.33	2.48354G	-42.11	24.15994G	-29.30	3
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.14596G	-44.49	2.39996G	-37.05	2.4973G	-43.20	24.46152G	-30.01	1
2422MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.13651G	-44.30	2.39992G	-36.08	2.5151G	-43.16	24.39982G	-29.14	2
2422MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.14109G	-43.94	2.39908G	-37.19	2.5201G	-43.80	24.45872G	-30.24	3
2437MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.03547G	-45.01	2.3954G	-38.99	2.48386G	-42.77	24.4447G	-29.76	1
2437MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.09472G	-43.90	2.39864G	-37.83	2.48382G	-39.31	24.14461G	-29.85	2
2437MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.10703G	-44.70	2.39952G	-37.13	2.48414G	-40.22	24.36336G	-29.71	3
2452MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.1577G	-45.05	2.39072G	-44.97	2.48766G	-42.74	24.59614G	-30.40	1
2452MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.30139G	-45.44	2.39376G	-43.48	2.48446G	-42.17	24.54566G	-29.39	2

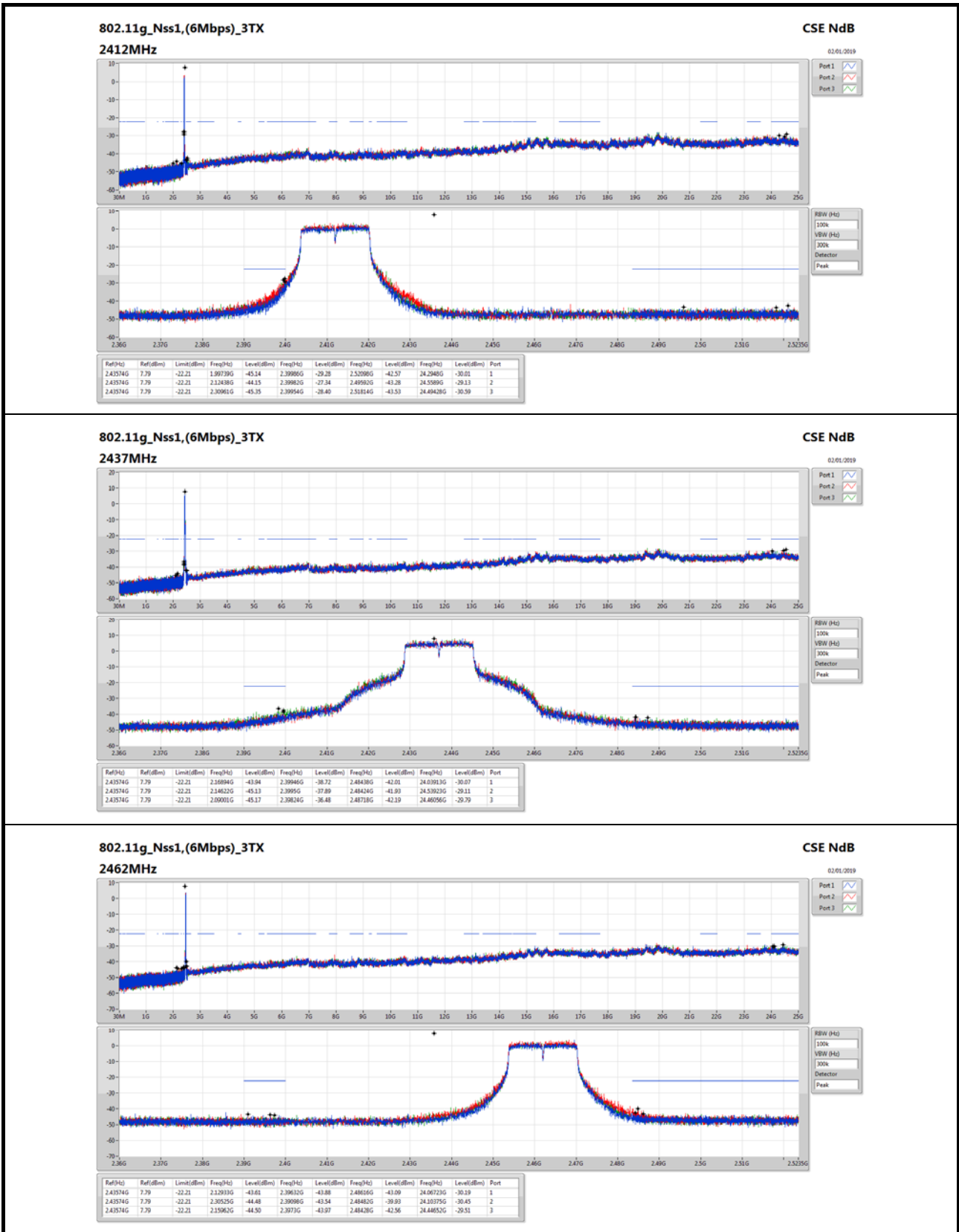


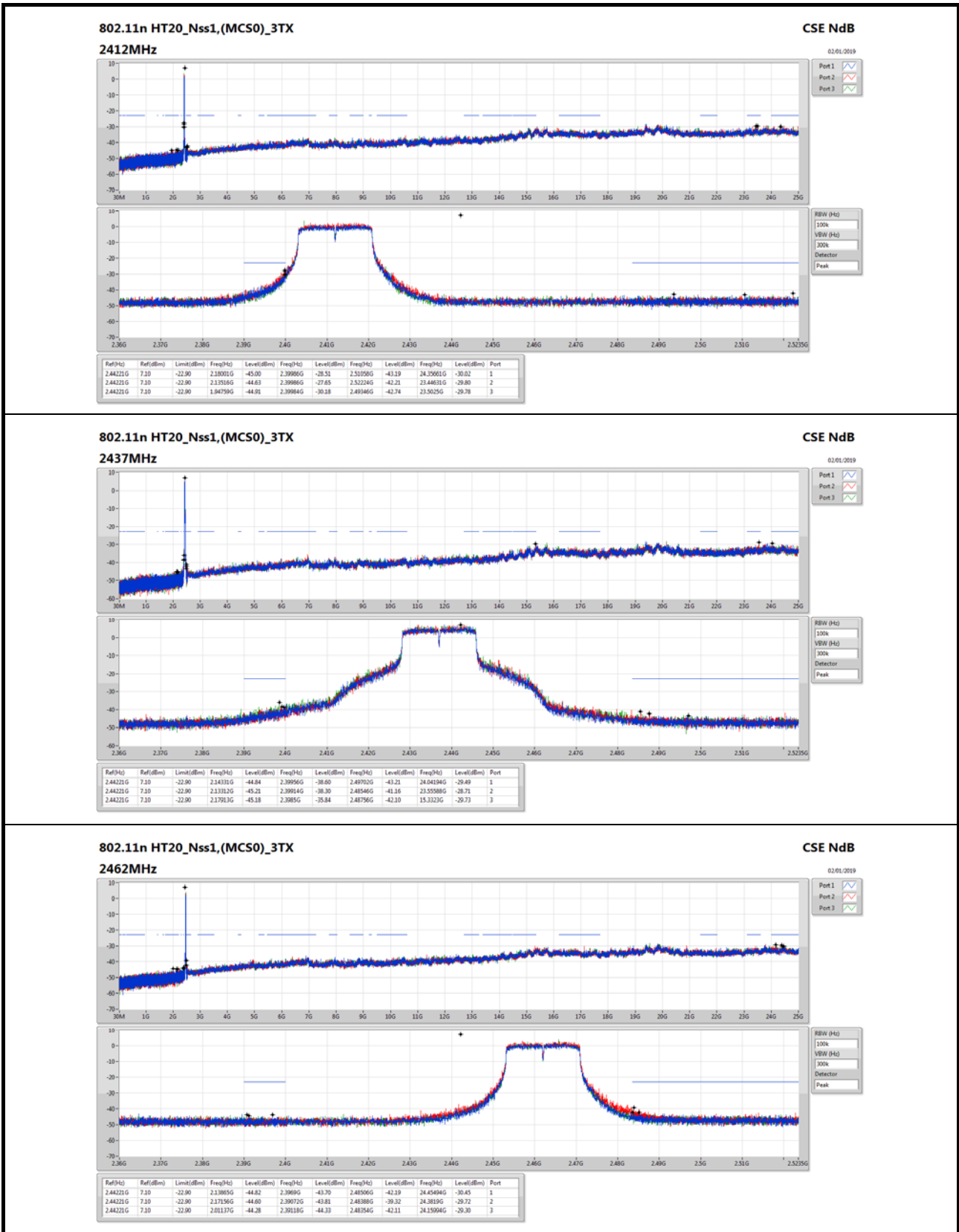
CSE Non-restricted Band Result

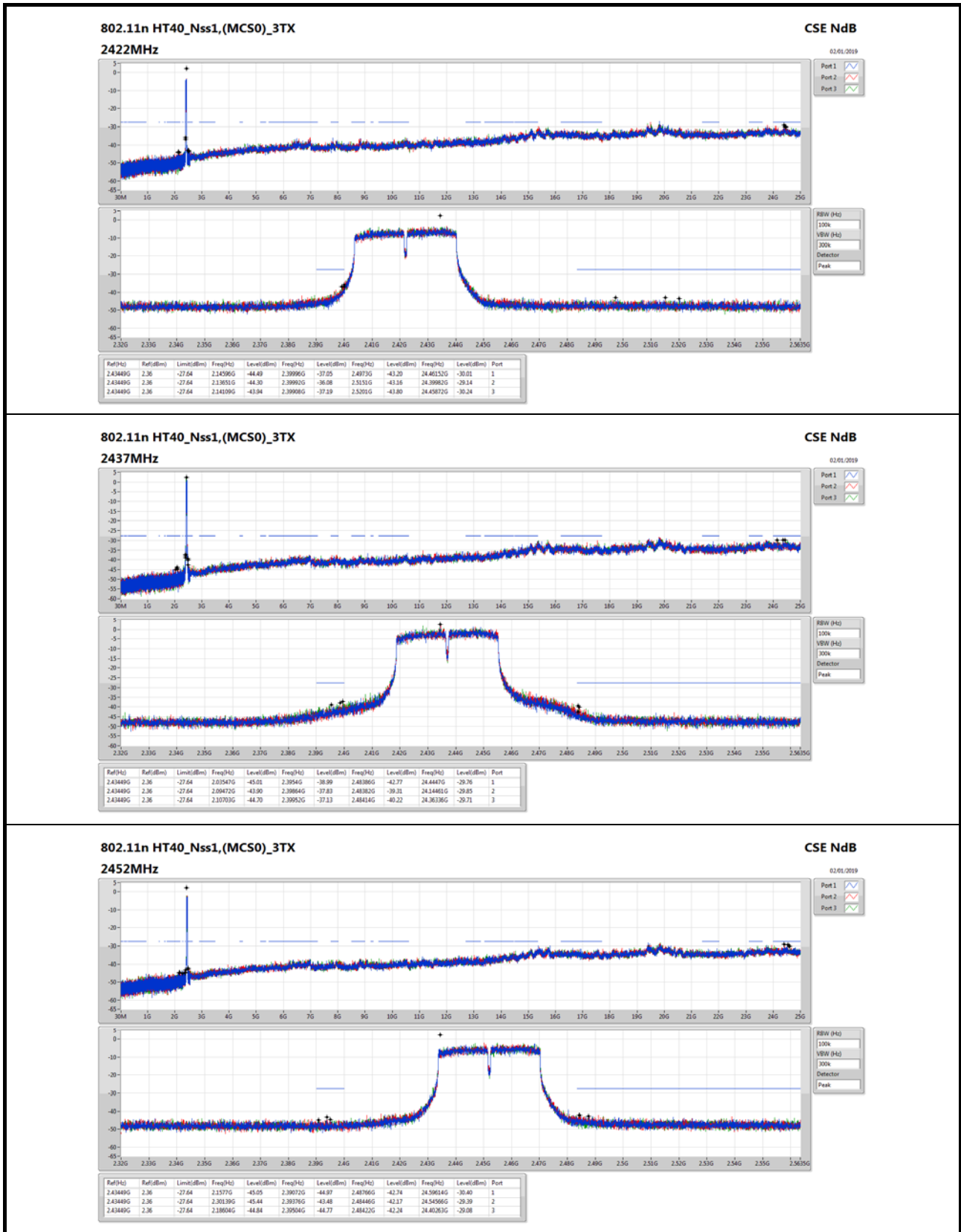
Appendix E

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2452MHz_TnomVnom	Pass	2.43449G	2.36	-27.64	2.18604G	-44.84	2.39504G	-44.77	2.48422G	-42.24	24.40263G	-29.08	3











Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_3TX	Pass	QP	299.66M	42.17	46.00	-3.83	-5.86	3	Horizontal	223	1.00	-



Result

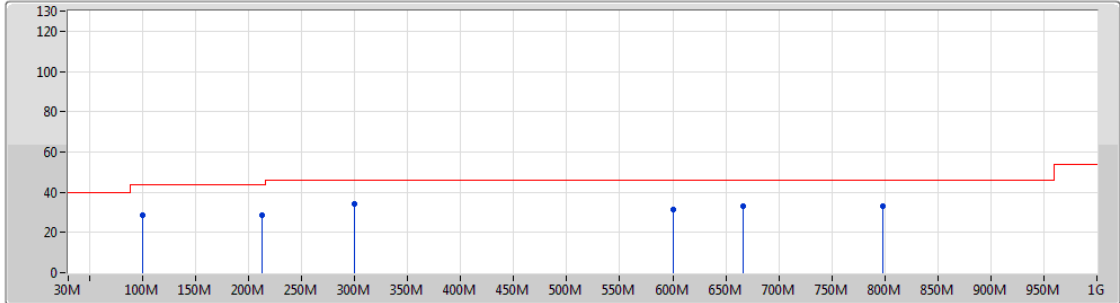
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	99.84M	28.75	43.50	-14.75	-10.24	3	Vertical	0	1.00	-
2437MHz	Pass	PK	212.36M	28.57	43.50	-14.93	-10.54	3	Vertical	0	1.00	-
2437MHz	Pass	PK	299.66M	34.19	46.00	-11.81	-5.86	3	Vertical	0	1.00	-
2437MHz	Pass	PK	600.36M	31.61	46.00	-14.39	-1.03	3	Vertical	0	1.00	-
2437MHz	Pass	PK	666.32M	32.91	46.00	-13.09	-0.28	3	Vertical	0	1.00	-
2437MHz	Pass	PK	798.24M	33.28	46.00	-12.72	1.20	3	Vertical	0	1.00	-
2437MHz	Pass	PK	99.84M	33.90	43.50	-9.60	-10.24	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	210.42M	37.50	43.50	-6.00	-10.53	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	400.54M	28.48	46.00	-17.52	-3.78	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	722.58M	37.43	46.00	-8.57	0.29	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	798.24M	38.01	46.00	-7.99	1.20	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	299.66M	42.17	46.00	-3.83	-5.86	3	Horizontal	223	1.00	-



802.11n HT40_Nss1,(MCS0)_3TX

24/01/2019

2437MHz_TX



Legend for the spectrum plot:

- Lim.PK
- PK
- Lim.AV
- AV

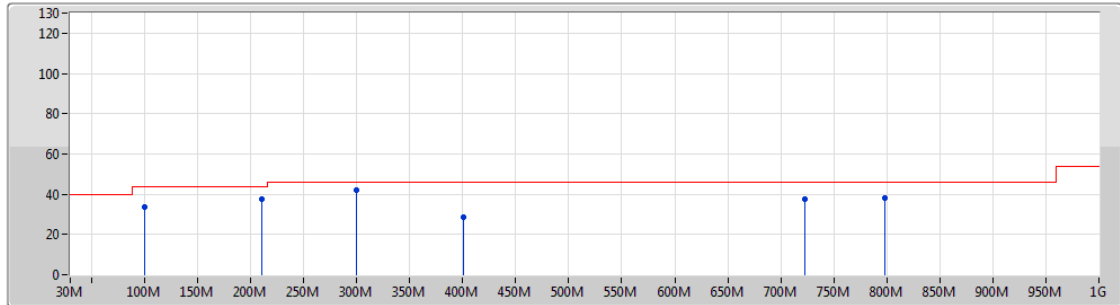
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	99.84M	28.75	43.50	-14.75	-10.24	3	Vertical	0	1.00	-
PK	212.36M	28.57	43.50	-14.93	-10.54	3	Vertical	0	1.00	-
PK	299.66M	34.19	46.00	-11.81	-5.86	3	Vertical	0	1.00	-
PK	600.36M	31.61	46.00	-14.39	-1.03	3	Vertical	0	1.00	-
PK	666.32M	32.91	46.00	-13.09	-0.28	3	Vertical	0	1.00	-
PK	798.24M	33.28	46.00	-12.72	1.20	3	Vertical	0	1.00	-



802.11n HT40_Nss1,(MCS0)_3TX

24/01/2019

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	99.84M	33.90	43.50	-9.60	-10.24	3	Horizontal	360	1.00	-
PK	210.42M	37.50	43.50	-6.00	-10.53	3	Horizontal	360	1.00	-
PK	400.54M	28.48	46.00	-17.52	-3.78	3	Horizontal	360	1.00	-
PK	722.58M	37.43	46.00	-8.57	0.29	3	Horizontal	360	1.00	-
PK	798.24M	38.01	46.00	-7.99	1.20	3	Horizontal	360	1.00	-
QP	299.66M	42.17	46.00	-3.83	-5.86	3	Horizontal	223	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	AV	4.924G	53.85	54.00	-0.15	2.38	3	Vertical	49	1.10	-
802.11g_Nss1,(6Mbps)_3TX	Pass	AV	2.39G	53.92	54.00	-0.08	30.77	3	Vertical	245	1.50	-
802.11n HT20_Nss1,(MCS0)_3TX	Pass	AV	2.4835G	53.89	54.00	-0.11	31.11	3	Vertical	273	1.14	-
802.11n HT40_Nss1,(MCS0)_3TX	Pass	AV	2.39G	53.82	54.00	-0.18	30.77	3	Vertical	245	1.01	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3888G	52.94	54.00	-1.06	30.77	3	Vertical	57	1.59	-
2412MHz	Pass	AV	2.4108G	112.82	Inf	-Inf	30.85	3	Vertical	57	1.59	-
2412MHz	Pass	PK	2.389G	61.61	74.00	-12.39	30.77	3	Vertical	57	1.59	-
2412MHz	Pass	PK	2.411G	115.71	Inf	-Inf	30.85	3	Vertical	57	1.59	-
2412MHz	Pass	AV	2.3892G	51.76	54.00	-2.24	30.77	3	Horizontal	275	1.12	-
2412MHz	Pass	AV	2.4126G	108.70	Inf	-Inf	30.86	3	Horizontal	275	1.12	-
2412MHz	Pass	PK	2.3884G	62.38	74.00	-11.62	30.77	3	Horizontal	275	1.12	-
2412MHz	Pass	PK	2.4128G	111.08	Inf	-Inf	30.86	3	Horizontal	275	1.12	-
2412MHz	Pass	AV	4.82394G	48.26	54.00	-5.74	2.13	3	Vertical	344	2.99	-
2412MHz	Pass	PK	4.82388G	50.68	74.00	-23.32	2.13	3	Vertical	344	2.99	-
2412MHz	Pass	AV	4.824G	37.09	54.00	-16.91	2.13	3	Horizontal	115	1.50	-
2412MHz	Pass	PK	4.82382G	44.55	74.00	-29.45	2.13	3	Horizontal	115	1.50	-
2437MHz	Pass	AV	2.3894G	42.38	54.00	-11.62	30.77	3	Vertical	144	1.50	-
2437MHz	Pass	AV	2.4342G	107.46	Inf	-Inf	30.94	3	Vertical	144	1.50	-
2437MHz	Pass	AV	2.4994G	43.86	54.00	-10.14	31.17	3	Vertical	144	1.50	-
2437MHz	Pass	PK	2.3618G	55.53	74.00	-18.47	30.67	3	Vertical	144	1.50	-
2437MHz	Pass	PK	2.4342G	110.16	Inf	-Inf	30.94	3	Vertical	144	1.50	-
2437MHz	Pass	PK	2.4954G	58.53	74.00	-15.47	31.16	3	Vertical	144	1.50	-
2437MHz	Pass	AV	2.3882G	41.97	54.00	-12.03	30.77	3	Horizontal	261	1.28	-
2437MHz	Pass	AV	2.4378G	94.04	Inf	-Inf	30.95	3	Horizontal	261	1.28	-
2437MHz	Pass	AV	2.4998G	42.78	54.00	-11.22	31.17	3	Horizontal	261	1.28	-
2437MHz	Pass	PK	2.3898G	55.59	74.00	-18.41	30.77	3	Horizontal	261	1.28	-
2437MHz	Pass	PK	2.4378G	96.46	Inf	-Inf	30.95	3	Horizontal	261	1.28	-
2437MHz	Pass	PK	2.4974G	56.73	74.00	-17.27	31.16	3	Horizontal	261	1.28	-
2437MHz	Pass	AV	4.874G	53.64	54.00	-0.36	2.25	3	Vertical	359	1.01	-
2437MHz	Pass	PK	4.87394G	55.55	74.00	-18.45	2.25	3	Vertical	359	1.01	-
2437MHz	Pass	AV	4.874G	41.41	54.00	-12.59	2.25	3	Horizontal	116	1.49	-
2437MHz	Pass	PK	4.874G	47.45	74.00	-26.55	2.25	3	Horizontal	116	1.49	-
2462MHz	Pass	AV	2.4628G	115.07	Inf	-Inf	31.04	3	Vertical	67	1.57	-
2462MHz	Pass	AV	2.4836G	47.35	54.00	-6.65	31.11	3	Vertical	67	1.57	-
2462MHz	Pass	PK	2.4624G	117.78	Inf	-Inf	31.03	3	Vertical	67	1.57	-
2462MHz	Pass	PK	2.4836G	67.57	74.00	-6.43	31.11	3	Vertical	67	1.57	-
2462MHz	Pass	AV	2.4582G	90.95	Inf	-Inf	31.02	3	Horizontal	284	1.04	-
2462MHz	Pass	AV	2.4984G	42.80	54.00	-11.20	31.17	3	Horizontal	284	1.04	-
2462MHz	Pass	PK	2.4584G	93.12	Inf	-Inf	31.02	3	Horizontal	284	1.04	-
2462MHz	Pass	PK	2.4924G	56.39	74.00	-17.61	31.14	3	Horizontal	284	1.04	-
2462MHz	Pass	AV	4.924G	53.85	54.00	-0.15	2.38	3	Vertical	49	1.10	-
2462MHz	Pass	PK	4.92388G	55.78	74.00	-18.22	2.38	3	Vertical	49	1.10	-
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3838G	53.84	54.00	-0.16	30.75	3	Vertical	64	1.39	-
2412MHz	Pass	AV	2.4136G	108.74	Inf	-Inf	30.86	3	Vertical	64	1.39	-
2412MHz	Pass	PK	2.3834G	70.87	74.00	-3.13	30.75	3	Vertical	64	1.39	-
2412MHz	Pass	PK	2.4138G	119.10	Inf	-Inf	30.86	3	Vertical	64	1.39	-
2412MHz	Pass	AV	2.389G	44.56	54.00	-9.44	30.77	3	Horizontal	354	1.62	-
2412MHz	Pass	AV	2.4174G	93.57	Inf	-Inf	30.87	3	Horizontal	354	1.62	-
2412MHz	Pass	PK	2.3878G	57.03	74.00	-16.97	30.77	3	Horizontal	354	1.62	-
2412MHz	Pass	PK	2.417G	104.09	Inf	-Inf	30.87	3	Horizontal	354	1.62	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	AV	4.82322G	36.54	54.00	-17.46	2.13	3	Vertical	357	2.89	-
2412MHz	Pass	PK	4.82442G	50.36	74.00	-23.64	2.13	3	Vertical	357	2.89	-
2412MHz	Pass	AV	4.83204G	29.75	54.00	-24.25	2.15	3	Horizontal	136	1.11	-
2412MHz	Pass	PK	4.81776G	43.21	74.00	-30.79	2.12	3	Horizontal	136	1.11	-
2417MHz	Pass	AV	2.3894G	53.26	54.00	-0.74	30.77	3	Vertical	252	1.50	-
2417MHz	Pass	AV	2.4236G	107.02	Inf	-Inf	30.90	3	Vertical	252	1.50	-
2417MHz	Pass	PK	2.388G	69.87	74.00	-4.13	30.77	3	Vertical	252	1.50	-
2417MHz	Pass	PK	2.4222G	116.97	Inf	-Inf	30.89	3	Vertical	252	1.50	-
2422MHz	Pass	AV	2.3898G	53.15	54.00	-0.85	30.77	3	Vertical	252	1.14	-
2422MHz	Pass	AV	2.4238G	107.86	Inf	-Inf	30.90	3	Vertical	252	1.14	-
2422MHz	Pass	PK	2.3894G	71.24	74.00	-2.76	30.77	3	Vertical	252	1.14	-
2422MHz	Pass	PK	2.4238G	117.60	Inf	-Inf	30.90	3	Vertical	252	1.14	-
2427MHz	Pass	AV	2.3856G	51.50	54.00	-2.50	30.76	3	Vertical	242	1.31	-
2427MHz	Pass	AV	2.4252G	109.95	Inf	-Inf	30.90	3	Vertical	242	1.31	-
2427MHz	Pass	PK	2.3866G	69.36	74.00	-4.64	30.76	3	Vertical	242	1.31	-
2427MHz	Pass	PK	2.4252G	119.36	Inf	-Inf	30.90	3	Vertical	242	1.31	-
2432MHz	Pass	AV	2.39G	53.92	54.00	-0.08	30.77	3	Vertical	245	1.50	-
2432MHz	Pass	AV	2.4308G	110.39	Inf	-Inf	30.92	3	Vertical	245	1.50	-
2432MHz	Pass	AV	2.49G	47.76	54.00	-6.24	31.13	3	Vertical	245	1.50	-
2432MHz	Pass	PK	2.3896G	70.35	74.00	-3.65	30.77	3	Vertical	245	1.50	-
2432MHz	Pass	PK	2.4308G	120.13	Inf	-Inf	30.92	3	Vertical	245	1.50	-
2432MHz	Pass	PK	2.4888G	60.79	74.00	-13.21	31.13	3	Vertical	245	1.50	-
2437MHz	Pass	AV	2.3898G	52.25	54.00	-1.75	30.77	3	Vertical	86	1.43	-
2437MHz	Pass	AV	2.4418G	112.05	Inf	-Inf	30.96	3	Vertical	86	1.43	-
2437MHz	Pass	AV	2.4835G	52.37	54.00	-1.63	31.11	3	Vertical	86	1.43	-
2437MHz	Pass	PK	2.3898G	69.28	74.00	-4.72	30.77	3	Vertical	86	1.43	-
2437MHz	Pass	PK	2.4322G	122.30	Inf	-Inf	30.93	3	Vertical	86	1.43	-
2437MHz	Pass	PK	2.4835G	69.93	74.00	-4.07	31.11	3	Vertical	86	1.43	-
2437MHz	Pass	AV	4.87142G	42.66	54.00	-11.34	2.24	3	Vertical	196	1.08	-
2437MHz	Pass	PK	4.88072G	57.67	74.00	-16.33	2.27	3	Vertical	196	1.08	-
2437MHz	Pass	AV	4.8785G	32.66	54.00	-21.34	2.27	3	Horizontal	115	1.35	-
2437MHz	Pass	PK	4.87988G	46.20	74.00	-27.80	2.27	3	Horizontal	115	1.35	-
2442MHz	Pass	AV	2.39G	49.28	54.00	-4.72	30.77	3	Vertical	69	1.36	-
2442MHz	Pass	AV	2.444G	109.99	Inf	-Inf	30.97	3	Vertical	69	1.36	-
2442MHz	Pass	AV	2.4835G	53.15	54.00	-0.85	31.11	3	Vertical	69	1.36	-
2442MHz	Pass	PK	2.3892G	64.39	74.00	-9.61	30.77	3	Vertical	69	1.36	-
2442MHz	Pass	PK	2.4448G	119.75	Inf	-Inf	30.98	3	Vertical	69	1.36	-
2442MHz	Pass	PK	2.4848G	71.50	74.00	-2.50	31.12	3	Vertical	69	1.36	-
2447MHz	Pass	AV	2.4424G	110.49	Inf	-Inf	30.96	3	Vertical	64	1.50	-
2447MHz	Pass	AV	2.4835G	53.64	54.00	-0.36	31.11	3	Vertical	64	1.50	-
2447MHz	Pass	PK	2.4422G	120.04	Inf	-Inf	30.96	3	Vertical	64	1.50	-
2447MHz	Pass	PK	2.4835G	68.84	74.00	-5.16	31.11	3	Vertical	64	1.50	-
2452MHz	Pass	AV	2.4574G	108.23	Inf	-Inf	31.02	3	Vertical	239	1.50	-
2452MHz	Pass	AV	2.4835G	53.16	54.00	-0.84	31.11	3	Vertical	239	1.50	-
2452MHz	Pass	PK	2.457G	118.48	Inf	-Inf	31.02	3	Vertical	239	1.50	-
2452MHz	Pass	PK	2.4846G	69.79	74.00	-4.21	31.12	3	Vertical	239	1.50	-
2457MHz	Pass	AV	2.458G	108.56	Inf	-Inf	31.02	3	Vertical	57	1.38	-
2457MHz	Pass	AV	2.4876G	53.51	54.00	-0.49	31.13	3	Vertical	57	1.38	-
2457MHz	Pass	PK	2.4584G	119.25	Inf	-Inf	31.02	3	Vertical	57	1.38	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2457MHz	Pass	PK	2.4868G	71.52	74.00	-2.48	31.12	3	Vertical	57	1.38	-
2462MHz	Pass	AV	2.456G	106.71	Inf	-Inf	31.01	3	Vertical	270	1.05	-
2462MHz	Pass	AV	2.4852G	53.28	54.00	-0.72	31.12	3	Vertical	270	1.05	-
2462MHz	Pass	PK	2.4558G	117.52	Inf	-Inf	31.01	3	Vertical	270	1.05	-
2462MHz	Pass	PK	2.4852G	68.87	74.00	-5.13	31.12	3	Vertical	270	1.05	-
2462MHz	Pass	AV	4.92328G	40.20	54.00	-13.80	2.38	3	Vertical	142	1.01	-
2462MHz	Pass	PK	4.92298G	53.60	74.00	-20.40	2.38	3	Vertical	142	1.01	-
2462MHz	Pass	AV	4.92988G	31.63	54.00	-22.37	2.40	3	Horizontal	182	1.45	-
2462MHz	Pass	PK	4.92046G	44.44	74.00	-29.56	2.36	3	Horizontal	182	1.45	-
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.76	54.00	-0.24	30.77	3	Vertical	78	1.20	-
2412MHz	Pass	AV	2.4184G	105.54	Inf	-Inf	30.87	3	Vertical	78	1.20	-
2412MHz	Pass	PK	2.3896G	68.38	74.00	-5.62	30.77	3	Vertical	78	1.20	-
2412MHz	Pass	PK	2.4184G	115.65	Inf	-Inf	30.87	3	Vertical	78	1.20	-
2412MHz	Pass	AV	4.82632G	36.37	54.00	-17.63	2.14	3	Vertical	125	2.99	-
2412MHz	Pass	PK	4.82712G	50.22	74.00	-23.78	2.14	3	Vertical	125	2.99	-
2412MHz	Pass	AV	4.80942G	29.66	54.00	-24.34	2.10	3	Horizontal	298	1.01	-
2412MHz	Pass	PK	4.82898G	43.34	74.00	-30.66	2.15	3	Horizontal	298	1.01	-
2417MHz	Pass	AV	2.39G	53.78	54.00	-0.22	30.77	3	Vertical	235	1.50	-
2417MHz	Pass	AV	2.4114G	106.41	Inf	-Inf	30.85	3	Vertical	235	1.50	-
2417MHz	Pass	PK	2.3892G	69.99	74.00	-4.01	30.77	3	Vertical	235	1.50	-
2417MHz	Pass	PK	2.412G	116.98	Inf	-Inf	30.85	3	Vertical	235	1.50	-
2422MHz	Pass	AV	2.39G	52.95	54.00	-1.05	30.77	3	Vertical	84	1.33	-
2422MHz	Pass	AV	2.4284G	108.06	Inf	-Inf	30.91	3	Vertical	84	1.33	-
2422MHz	Pass	PK	2.3898G	71.07	74.00	-2.93	30.77	3	Vertical	84	1.33	-
2422MHz	Pass	PK	2.4288G	117.97	Inf	-Inf	30.91	3	Vertical	84	1.33	-
2427MHz	Pass	AV	2.39G	53.69	54.00	-0.31	30.77	3	Vertical	262	1.50	-
2427MHz	Pass	AV	2.4222G	108.13	Inf	-Inf	30.89	3	Vertical	262	1.50	-
2427MHz	Pass	PK	2.39G	71.78	74.00	-2.22	30.77	3	Vertical	262	1.50	-
2427MHz	Pass	PK	2.422G	117.90	Inf	-Inf	30.89	3	Vertical	262	1.50	-
2432MHz	Pass	AV	2.39G	52.67	54.00	-1.33	30.77	3	Vertical	59	1.28	-
2432MHz	Pass	AV	2.4296G	108.56	Inf	-Inf	30.91	3	Vertical	59	1.28	-
2432MHz	Pass	AV	2.49G	46.63	54.00	-7.37	31.13	3	Vertical	59	1.28	-
2432MHz	Pass	PK	2.3896G	68.11	74.00	-5.89	30.77	3	Vertical	59	1.28	-
2432MHz	Pass	PK	2.4288G	118.17	Inf	-Inf	30.91	3	Vertical	59	1.28	-
2432MHz	Pass	PK	2.494G	64.58	74.00	-9.42	31.15	3	Vertical	59	1.28	-
2437MHz	Pass	AV	2.3898G	53.04	54.00	-0.96	30.77	3	Vertical	268	1.50	-
2437MHz	Pass	AV	2.4398G	109.24	Inf	-Inf	30.95	3	Vertical	268	1.50	-
2437MHz	Pass	AV	2.4835G	50.04	54.00	-3.96	31.11	3	Vertical	268	1.50	-
2437MHz	Pass	PK	2.3898G	69.99	74.00	-4.01	30.77	3	Vertical	268	1.50	-
2437MHz	Pass	PK	2.4402G	119.37	Inf	-Inf	30.95	3	Vertical	268	1.50	-
2437MHz	Pass	PK	2.4882G	66.67	74.00	-7.33	31.13	3	Vertical	268	1.50	-
2437MHz	Pass	AV	4.87694G	38.32	54.00	-15.68	2.26	3	Vertical	123	2.93	-
2437MHz	Pass	PK	4.8767G	53.47	74.00	-20.53	2.26	3	Vertical	123	2.93	-
2437MHz	Pass	AV	4.88306G	30.31	54.00	-23.69	2.27	3	Horizontal	94	1.23	-
2437MHz	Pass	PK	4.8845G	44.21	74.00	-29.79	2.29	3	Horizontal	94	1.23	-
2442MHz	Pass	AV	2.3832G	48.08	54.00	-5.92	30.75	3	Vertical	77	1.32	-
2442MHz	Pass	AV	2.4404G	110.53	Inf	-Inf	30.95	3	Vertical	77	1.32	-
2442MHz	Pass	AV	2.4835G	53.55	54.00	-0.45	31.11	3	Vertical	77	1.32	-



RSE TX above 1GHz Result

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2442MHz	Pass	PK	2.388G	64.17	74.00	-9.83	30.77	3	Vertical	77	1.32	-
2442MHz	Pass	PK	2.4408G	119.94	Inf	-Inf	30.95	3	Vertical	77	1.32	-
2442MHz	Pass	PK	2.4835G	69.14	74.00	-4.86	31.11	3	Vertical	77	1.32	-
2447MHz	Pass	AV	2.4498G	109.19	Inf	-Inf	30.99	3	Vertical	83	1.42	-
2447MHz	Pass	AV	2.4835G	53.23	54.00	-0.77	31.11	3	Vertical	83	1.42	-
2447MHz	Pass	PK	2.4492G	118.97	Inf	-Inf	30.99	3	Vertical	83	1.42	-
2447MHz	Pass	PK	2.4866G	70.79	74.00	-3.21	31.12	3	Vertical	83	1.42	-
2452MHz	Pass	PK	2.4578G	118.49	Inf	-Inf	31.02	3	Vertical	243	1.50	-
2452MHz	Pass	AV	2.4582G	109.01	Inf	-Inf	31.02	3	Vertical	243	1.50	-
2452MHz	Pass	PK	2.4835G	66.72	74.00	-7.28	31.11	3	Vertical	243	1.50	-
2452MHz	Pass	AV	2.4835G	52.87	54.00	-1.13	31.11	3	Vertical	243	1.50	-
2457MHz	Pass	AV	2.4584G	107.12	Inf	-Inf	31.02	3	Vertical	244	1.58	-
2457MHz	Pass	AV	2.487G	53.64	54.00	-0.36	31.12	3	Vertical	244	1.58	-
2457MHz	Pass	PK	2.4592G	117.28	Inf	-Inf	31.03	3	Vertical	244	1.58	-
2457MHz	Pass	PK	2.4884G	70.27	74.00	-3.73	31.13	3	Vertical	244	1.58	-
2462MHz	Pass	AV	2.4592G	106.03	Inf	-Inf	31.03	3	Vertical	273	1.14	-
2462MHz	Pass	AV	2.4835G	53.89	54.00	-0.11	31.11	3	Vertical	273	1.14	-
2462MHz	Pass	PK	2.4596G	115.68	Inf	-Inf	31.03	3	Vertical	273	1.14	-
2462MHz	Pass	PK	2.4836G	69.74	74.00	-4.26	31.11	3	Vertical	273	1.14	-
2462MHz	Pass	AV	4.9219G	38.80	54.00	-15.20	2.38	3	Vertical	141	1.02	-
2462MHz	Pass	PK	4.92118G	52.31	74.00	-21.69	2.36	3	Vertical	141	1.02	-
2462MHz	Pass	AV	4.93294G	31.55	54.00	-22.45	2.40	3	Horizontal	103	1.36	-
2462MHz	Pass	PK	4.93162G	45.00	74.00	-29.00	2.40	3	Horizontal	103	1.36	-
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3856G	53.58	54.00	-0.42	30.76	3	Vertical	263	1.39	-
2422MHz	Pass	AV	2.4248G	99.29	Inf	-Inf	30.90	3	Vertical	263	1.39	-
2422MHz	Pass	AV	2.4972G	44.52	54.00	-9.48	31.16	3	Vertical	263	1.39	-
2422MHz	Pass	PK	2.3836G	67.96	74.00	-6.04	30.75	3	Vertical	263	1.39	-
2422MHz	Pass	PK	2.4252G	109.25	Inf	-Inf	30.90	3	Vertical	263	1.39	-
2422MHz	Pass	PK	2.496G	57.43	74.00	-16.57	31.16	3	Vertical	263	1.39	-
2422MHz	Pass	AV	4.84574G	32.35	54.00	-21.65	2.18	3	Vertical	131	2.99	-
2422MHz	Pass	PK	4.8443G	45.02	74.00	-28.98	2.18	3	Vertical	131	2.99	-
2422MHz	Pass	AV	4.85168G	29.62	54.00	-24.38	2.20	3	Horizontal	38	1.71	-
2422MHz	Pass	PK	4.85804G	43.20	74.00	-30.80	2.21	3	Horizontal	38	1.71	-
2427MHz	Pass	AV	2.3874G	53.26	54.00	-0.74	30.76	3	Vertical	292	1.36	-
2427MHz	Pass	AV	2.4258G	98.58	Inf	-Inf	30.90	3	Vertical	292	1.36	-
2427MHz	Pass	AV	2.4894G	44.23	54.00	-9.77	31.13	3	Vertical	292	1.36	-
2427MHz	Pass	PK	2.3878G	68.18	74.00	-5.82	30.77	3	Vertical	292	1.36	-
2427MHz	Pass	PK	2.4158G	108.37	Inf	-Inf	30.86	3	Vertical	292	1.36	-
2427MHz	Pass	PK	2.4922G	57.44	74.00	-16.56	31.14	3	Vertical	292	1.36	-
2432MHz	Pass	AV	2.39G	53.82	54.00	-0.18	30.77	3	Vertical	245	1.01	-
2432MHz	Pass	AV	2.4472G	101.28	Inf	-Inf	30.98	3	Vertical	245	1.01	-
2432MHz	Pass	AV	2.4835G	46.25	54.00	-7.75	31.11	3	Vertical	245	1.01	-
2432MHz	Pass	PK	2.3888G	68.88	74.00	-5.12	30.77	3	Vertical	245	1.01	-
2432MHz	Pass	PK	2.448G	112.35	Inf	-Inf	30.98	3	Vertical	245	1.01	-
2432MHz	Pass	PK	2.4872G	61.47	74.00	-12.53	31.12	3	Vertical	245	1.01	-
2437MHz	Pass	AV	2.3898G	52.61	54.00	-1.39	30.77	3	Vertical	253	1.50	-
2437MHz	Pass	AV	2.4346G	105.06	Inf	-Inf	30.94	3	Vertical	253	1.50	-
2437MHz	Pass	AV	2.4835G	51.43	54.00	-2.57	31.11	3	Vertical	253	1.50	-



RSE TX above 1GHz Result

Appendix F.2

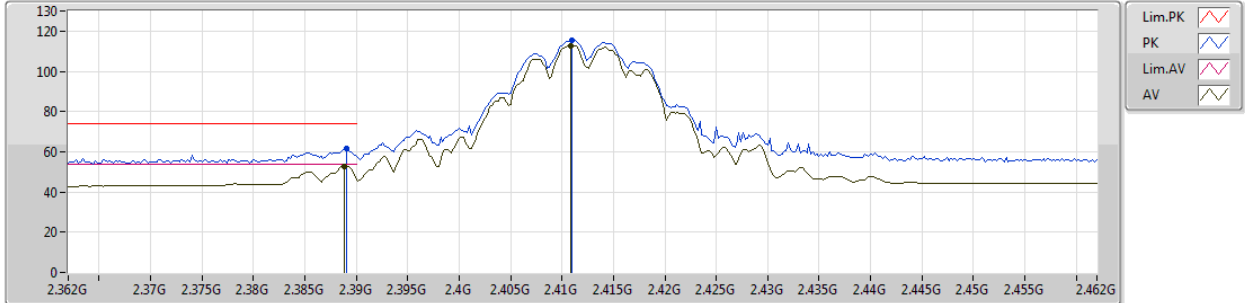
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.3766G	69.53	74.00	-4.47	30.72	3	Vertical	253	1.50	-
2437MHz	Pass	PK	2.4346G	115.41	Inf	-Inf	30.94	3	Vertical	253	1.50	-
2437MHz	Pass	PK	2.4835G	70.04	74.00	-3.96	31.11	3	Vertical	253	1.50	-
2437MHz	Pass	AV	4.88618G	35.84	54.00	-18.16	2.29	3	Vertical	132	2.93	-
2437MHz	Pass	PK	4.8869G	48.77	74.00	-25.23	2.29	3	Vertical	132	2.93	-
2437MHz	Pass	AV	4.88726G	29.84	54.00	-24.16	2.29	3	Horizontal	185	1.50	-
2437MHz	Pass	PK	4.88G	42.78	74.00	-31.22	2.27	3	Horizontal	185	1.50	-
2442MHz	Pass	AV	2.39G	50.72	54.00	-3.28	30.77	3	Vertical	240	1.61	-
2442MHz	Pass	AV	2.4524G	103.03	Inf	-Inf	31.00	3	Vertical	240	1.61	-
2442MHz	Pass	AV	2.4835G	53.80	54.00	-0.20	31.11	3	Vertical	240	1.61	-
2442MHz	Pass	PK	2.3876G	68.22	74.00	-5.78	30.77	3	Vertical	240	1.61	-
2442MHz	Pass	PK	2.4524G	113.80	Inf	-Inf	31.00	3	Vertical	240	1.61	-
2442MHz	Pass	PK	2.4888G	71.23	74.00	-2.77	31.13	3	Vertical	240	1.61	-
2447MHz	Pass	AV	2.3786G	43.92	54.00	-10.08	30.74	3	Vertical	263	1.15	-
2447MHz	Pass	AV	2.4566G	102.30	Inf	-Inf	31.02	3	Vertical	263	1.15	-
2447MHz	Pass	AV	2.4858G	49.74	54.00	-4.26	31.12	3	Vertical	263	1.61	-
2447MHz	Pass	PK	2.3766G	61.33	74.00	-12.67	30.72	3	Vertical	263	1.15	-
2447MHz	Pass	PK	2.4362G	113.26	Inf	-Inf	30.94	3	Vertical	263	1.15	-
2447MHz	Pass	PK	2.495G	67.42	74.00	-6.58	31.16	3	Vertical	263	1.15	-
2452MHz	Pass	AV	2.3896G	43.75	54.00	-10.25	30.77	3	Vertical	259	1.50	-
2452MHz	Pass	AV	2.4488G	100.65	Inf	-Inf	30.99	3	Vertical	259	1.50	-
2452MHz	Pass	AV	2.4888G	53.53	54.00	-0.47	31.13	3	Vertical	259	1.50	-
2452MHz	Pass	PK	2.386G	59.69	74.00	-14.31	30.76	3	Vertical	259	1.50	-
2452MHz	Pass	PK	2.4492G	112.28	Inf	-Inf	30.99	3	Vertical	259	1.50	-
2452MHz	Pass	PK	2.4896G	71.33	74.00	-2.67	31.13	3	Vertical	259	1.50	-
2452MHz	Pass	AV	4.89872G	32.75	54.00	-21.25	2.32	3	Vertical	185	1.07	-
2452MHz	Pass	PK	4.9004G	46.39	74.00	-27.61	2.32	3	Vertical	185	1.07	-
2452MHz	Pass	AV	4.89134G	29.72	54.00	-24.28	2.30	3	Horizontal	22	1.50	-
2452MHz	Pass	PK	4.89824G	43.30	74.00	-30.70	2.32	3	Horizontal	22	1.50	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2412MHz_TX



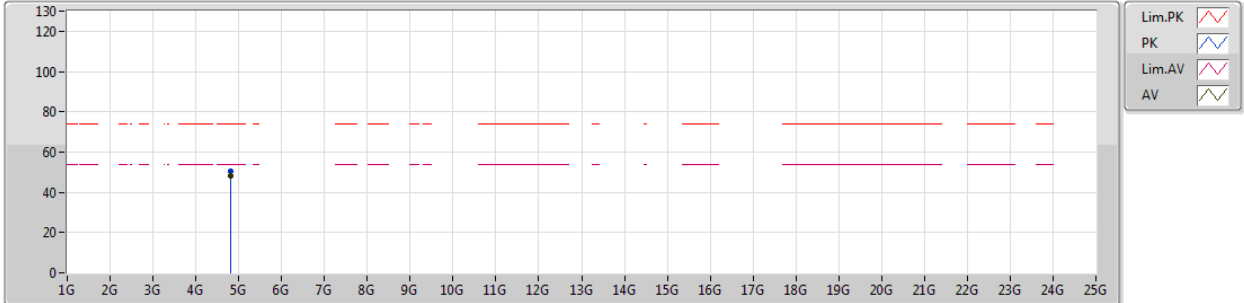
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AV	2.3888G	52.94	54.00	-1.06	30.77	3	Vertical	57	1.59	-
AV	2.4108G	112.82	Inf	-Inf	30.85	3	Vertical	57	1.59	-
PK	2.389G	61.61	74.00	-12.39	30.77	3	Vertical	57	1.59	-
PK	2.411G	115.71	Inf	-Inf	30.85	3	Vertical	57	1.59	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2412MHz_TX



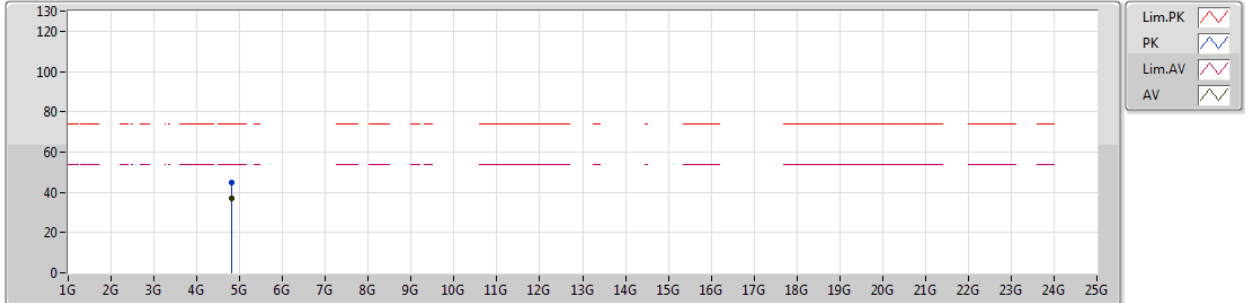
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AV	4.82394G	48.26	54.00	-5.74	2.13	3	Vertical	344	2.99	-
PK	4.82388G	50.68	74.00	-23.32	2.13	3	Vertical	344	2.99	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2412MHz_TX



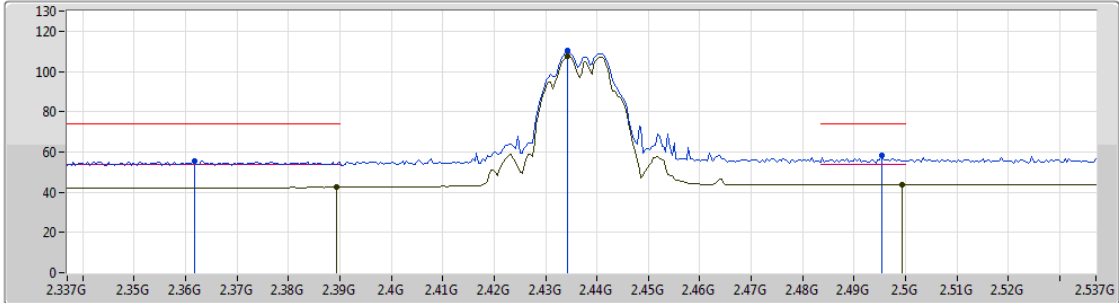
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AV	4.824G	37.09	54.00	-16.91	2.13	3	Horizontal	115	1.50	-
PK	4.82382G	44.55	74.00	-29.45	2.13	3	Horizontal	115	1.50	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2437MHz_TX



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 PK
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 AV

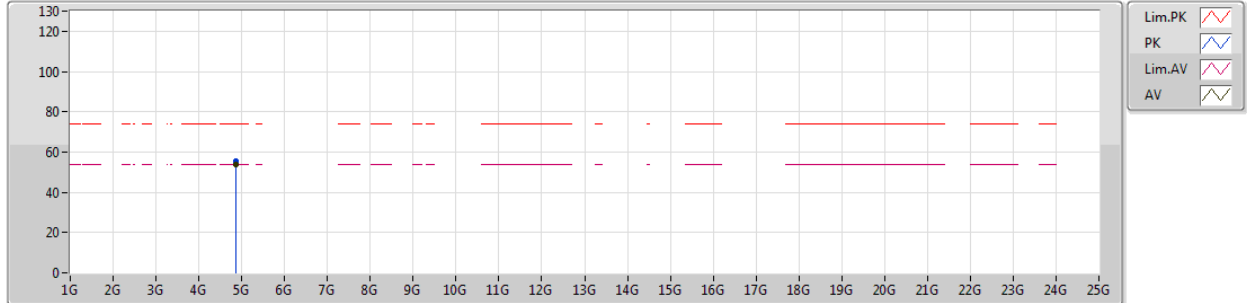
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AV	2.3894G	42.38	54.00	-11.62	30.77	3	Vertical	144	1.50	-
AV	2.4342G	107.46	Inf	-Inf	30.94	3	Vertical	144	1.50	-
AV	2.4994G	43.86	54.00	-10.14	31.17	3	Vertical	144	1.50	-
PK	2.3618G	55.53	74.00	-18.47	30.67	3	Vertical	144	1.50	-
PK	2.4342G	110.16	Inf	-Inf	30.94	3	Vertical	144	1.50	-
PK	2.4954G	58.53	74.00	-15.47	31.16	3	Vertical	144	1.50	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2437MHz_TX



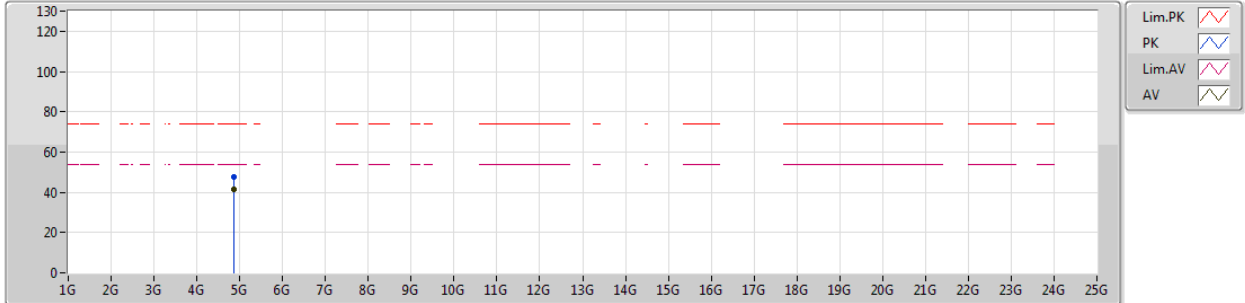
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AV	4.874G	53.64	54.00	-0.36	2.25	3	Vertical	359	1.01	-
PK	4.87394G	55.55	74.00	-18.45	2.25	3	Vertical	359	1.01	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2437MHz_TX



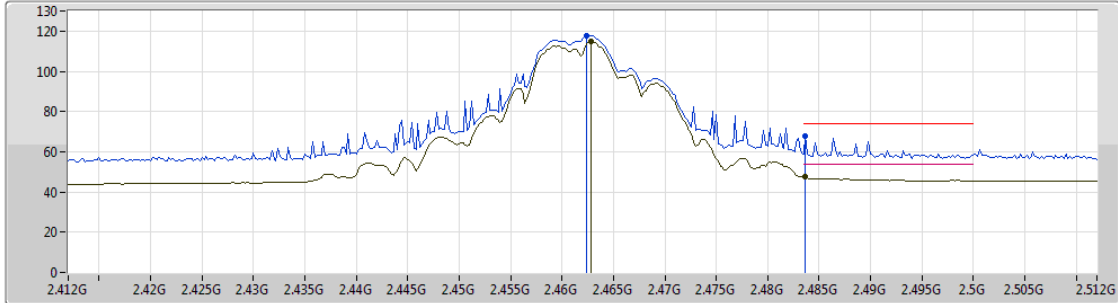
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	41.41	54.00	-12.59	2.25	3	Horizontal	116	1.49	-
PK	4.874G	47.45	74.00	-26.55	2.25	3	Horizontal	116	1.49	-



802.11b_Nss1,(1Mbps)_3TX

02/01/2019

2462MHz_TX



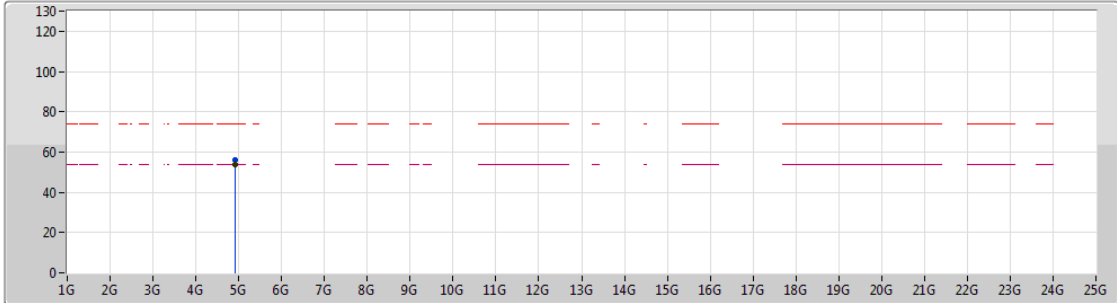
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4628G	115.07	Inf	-Inf	31.04	3	Vertical	67	1.57	-
AV	2.4836G	47.35	54.00	-6.65	31.11	3	Vertical	67	1.57	-
PK	2.4624G	117.78	Inf	-Inf	31.03	3	Vertical	67	1.57	-
PK	2.4836G	67.57	74.00	-6.43	31.11	3	Vertical	67	1.57	-



802.11b_Nss1,(1Mbps)_3TX

02/01/2019

2462MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

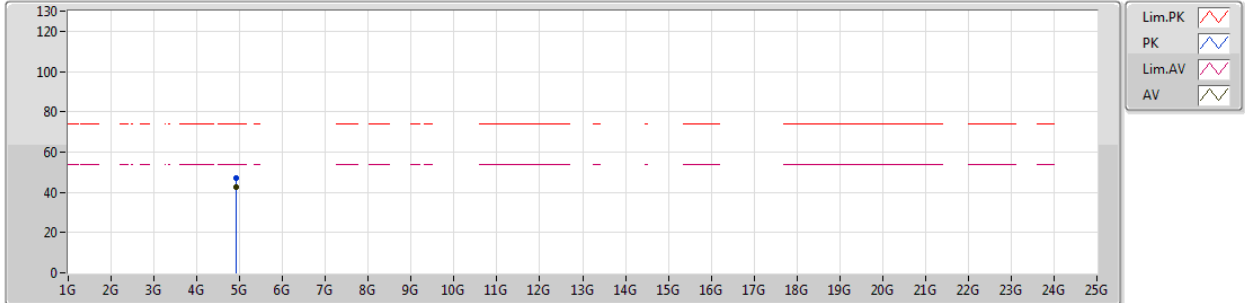
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.924G	53.85	54.00	-0.15	2.38	3	Vertical	49	1.10	-
PK	4.92388G	55.78	74.00	-18.22	2.38	3	Vertical	49	1.10	-



802.11b_Nss1,(1Mbps)_3TX

29/12/2018

2462MHz_TX



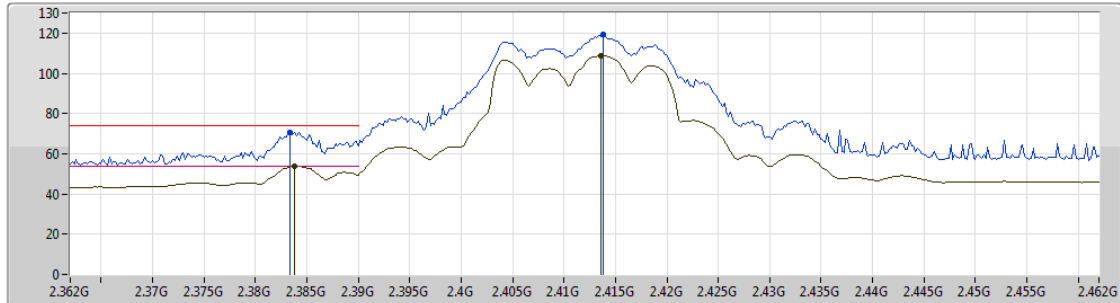
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	42.55	54.00	-11.45	2.38	3	Horizontal	174	1.41	-
PK	4.924G	47.21	74.00	-26.79	2.38	3	Horizontal	174	1.41	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2412MHz_TX



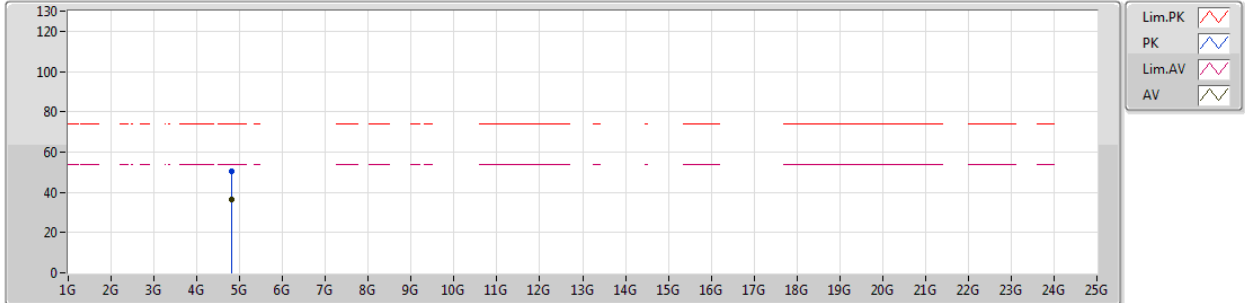
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3838G	53.84	54.00	-0.16	30.75	3	Vertical	64	1.39	-
AV	2.4136G	108.74	Inf	-Inf	30.86	3	Vertical	64	1.39	-
PK	2.3834G	70.87	74.00	-3.13	30.75	3	Vertical	64	1.39	-
PK	2.4138G	119.10	Inf	-Inf	30.86	3	Vertical	64	1.39	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2412MHz_TX



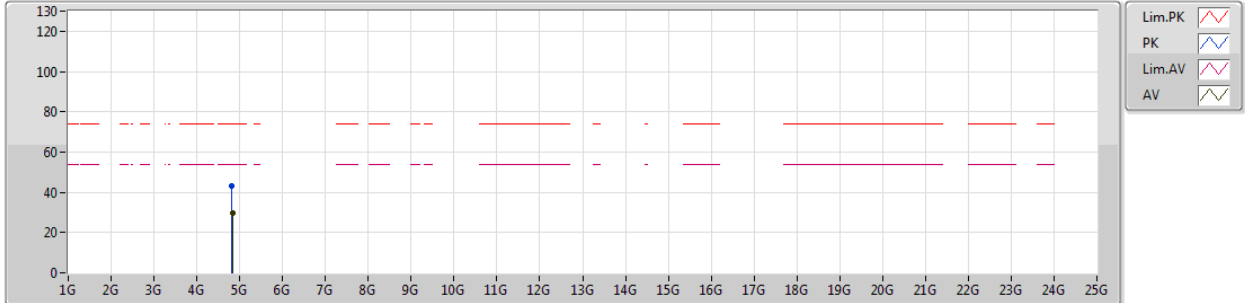
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82322G	36.54	54.00	-17.46	2.13	3	Vertical	357	2.89	-
PK	4.82442G	50.36	74.00	-23.64	2.13	3	Vertical	357	2.89	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2412MHz_TX



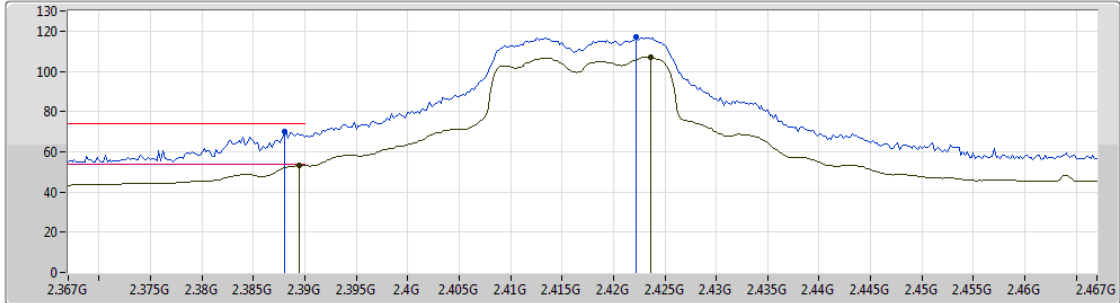
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.83204G	29.75	54.00	-24.25	2.15	3	Horizontal	136	1.11	-
PK	4.81776G	43.21	74.00	-30.79	2.12	3	Horizontal	136	1.11	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2417MHz_TX



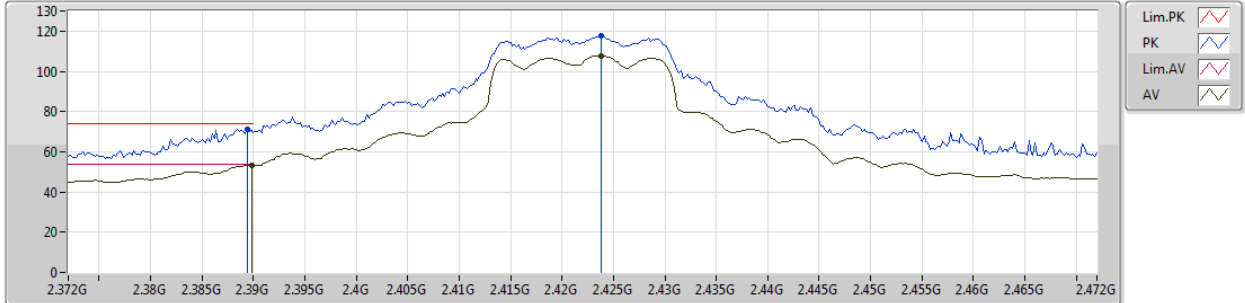
Lim.PK
 PK
 Lim.AV
 AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	53.26	54.00	-0.74	30.77	3	Vertical	252	1.50	-
AV	2.4236G	107.02	Inf	-Inf	30.90	3	Vertical	252	1.50	-
PK	2.388G	69.87	74.00	-4.13	30.77	3	Vertical	252	1.50	-
PK	2.422G	116.97	Inf	-Inf	30.89	3	Vertical	252	1.50	-

802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2422MHz_TX

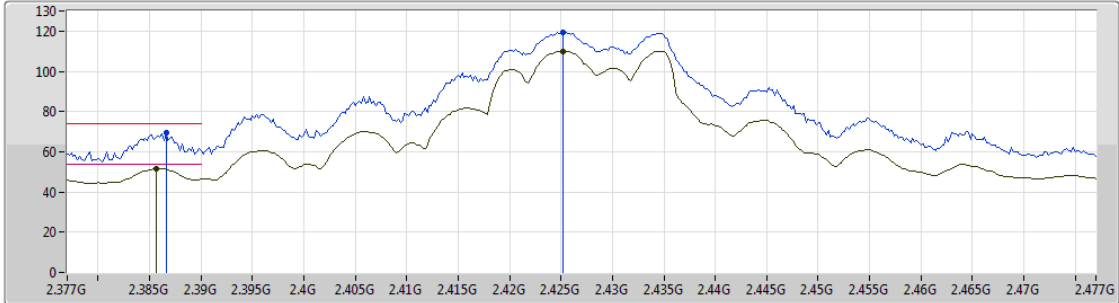


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.15	54.00	-0.85	30.77	3	Vertical	252	1.14	-
AV	2.4238G	107.86	Inf	-Inf	30.90	3	Vertical	252	1.14	-
PK	2.3894G	71.24	74.00	-2.76	30.77	3	Vertical	252	1.14	-
PK	2.4238G	117.60	Inf	-Inf	30.90	3	Vertical	252	1.14	-

802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2427MHz_TX



Legend for the spectrum plot:

- Lim.PK
- PK
- Lim.AV
- AV

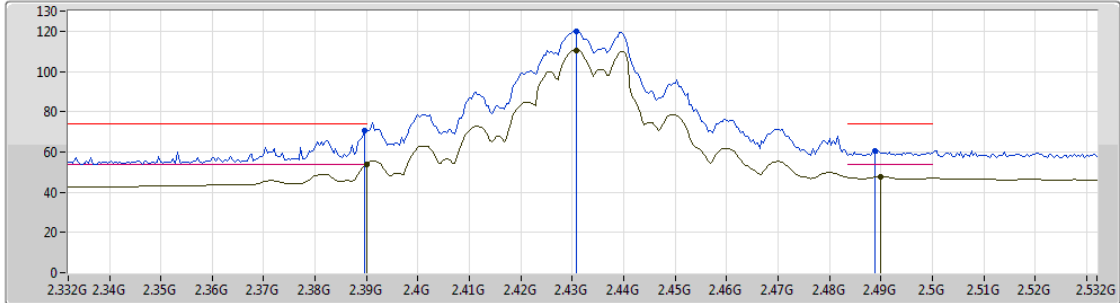
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3856G	51.50	54.00	-2.50	30.76	3	Vertical	242	1.31	-
AV	2.4252G	109.95	Inf	-Inf	30.90	3	Vertical	242	1.31	-
PK	2.3866G	69.36	74.00	-4.64	30.76	3	Vertical	242	1.31	-
PK	2.4252G	119.36	Inf	-Inf	30.90	3	Vertical	242	1.31	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2432MHz_TX



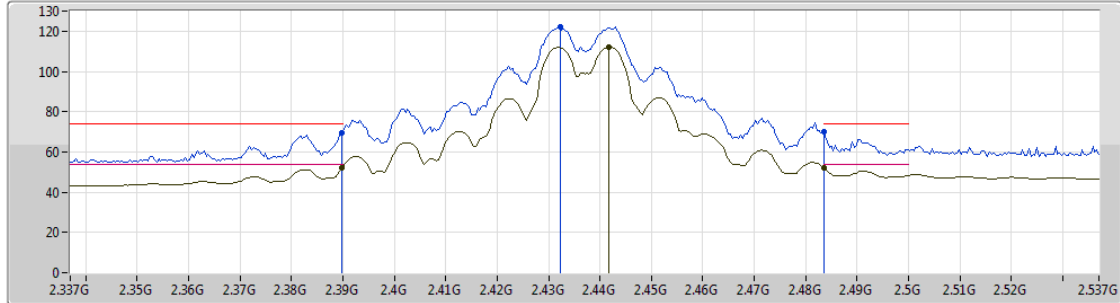
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.92	54.00	-0.08	30.77	3	Vertical	245	1.50	-
AV	2.4308G	110.39	Inf	-Inf	30.92	3	Vertical	245	1.50	-
AV	2.49G	47.76	54.00	-6.24	31.13	3	Vertical	245	1.50	-
PK	2.3896G	70.35	74.00	-3.65	30.77	3	Vertical	245	1.50	-
PK	2.4308G	120.13	Inf	-Inf	30.92	3	Vertical	245	1.50	-
PK	2.4888G	60.79	74.00	-13.21	31.13	3	Vertical	245	1.50	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2437MHz_TX



Legend for plot:

- Lim.PK
- PK
- Lim.AV
- AV

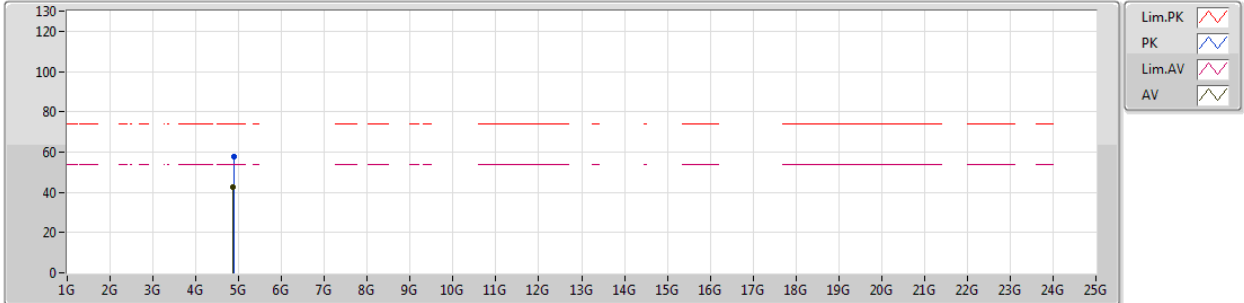
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	52.25	54.00	-1.75	30.77	3	Vertical	86	1.43	-
AV	2.4418G	112.05	Inf	-Inf	30.96	3	Vertical	86	1.43	-
AV	2.4835G	52.37	54.00	-1.63	31.11	3	Vertical	86	1.43	-
PK	2.3898G	69.28	74.00	-4.72	30.77	3	Vertical	86	1.43	-
PK	2.4322G	122.30	Inf	-Inf	30.93	3	Vertical	86	1.43	-
PK	2.4835G	69.93	74.00	-4.07	31.11	3	Vertical	86	1.43	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2437MHz_TX



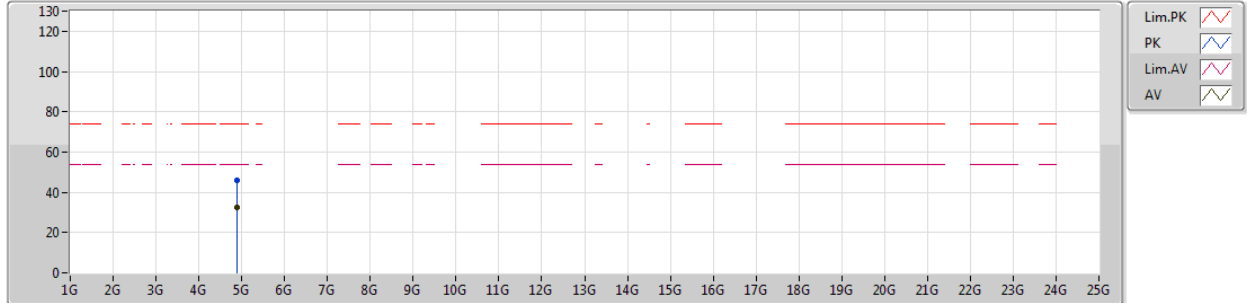
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87142G	42.66	54.00	-11.34	2.24	3	Vertical	196	1.08	-
PK	4.88072G	57.67	74.00	-16.33	2.27	3	Vertical	196	1.08	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2437MHz_TX



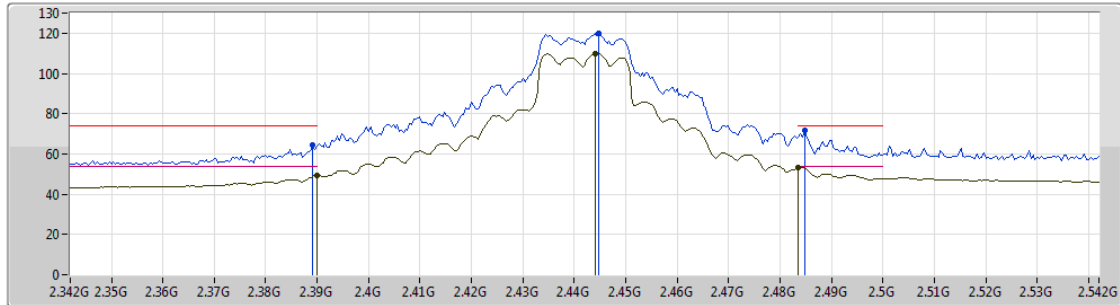
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8785G	32.66	54.00	-21.34	2.27	3	Horizontal	115	1.35	-
PK	4.87988G	46.20	74.00	-27.80	2.27	3	Horizontal	115	1.35	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2442MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

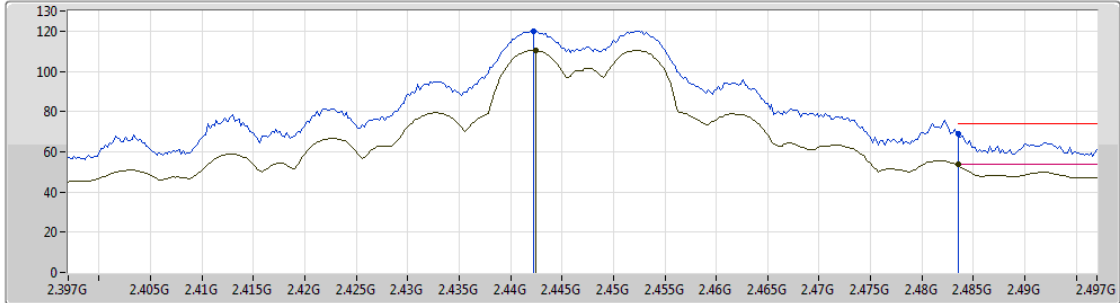
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	49.28	54.00	-4.72	30.77	3	Vertical	69	1.36	-
AV	2.444G	109.99	Inf	-Inf	30.97	3	Vertical	69	1.36	-
AV	2.4835G	53.15	54.00	-0.85	31.11	3	Vertical	69	1.36	-
PK	2.3892G	64.39	74.00	-9.61	30.77	3	Vertical	69	1.36	-
PK	2.4448G	119.75	Inf	-Inf	30.98	3	Vertical	69	1.36	-
PK	2.4848G	71.50	74.00	-2.50	31.12	3	Vertical	69	1.36	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2447MHz_TX



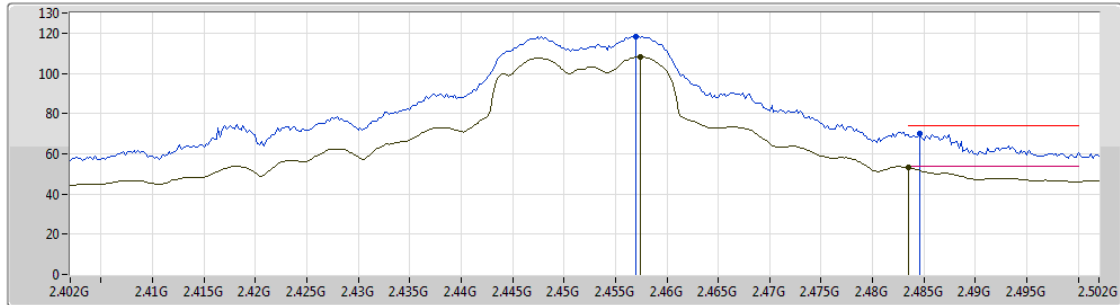
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4424G	110.49	Inf	-Inf	30.96	3	Vertical	64	1.50	-
AV	2.4835G	53.64	54.00	-0.36	31.11	3	Vertical	64	1.50	-
PK	2.4422G	120.04	Inf	-Inf	30.96	3	Vertical	64	1.50	-
PK	2.4835G	68.84	74.00	-5.16	31.11	3	Vertical	64	1.50	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2452MHz_TX



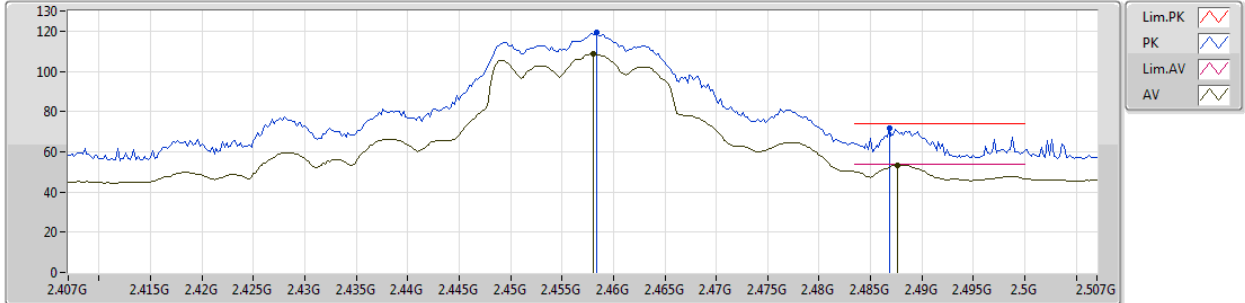
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4574G	108.23	Inf	-Inf	31.02	3	Vertical	239	1.50	-
AV	2.4835G	53.16	54.00	-0.84	31.11	3	Vertical	239	1.50	-
PK	2.457G	118.48	Inf	-Inf	31.02	3	Vertical	239	1.50	-
PK	2.4846G	69.79	74.00	-4.21	31.12	3	Vertical	239	1.50	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2457MHz_TX



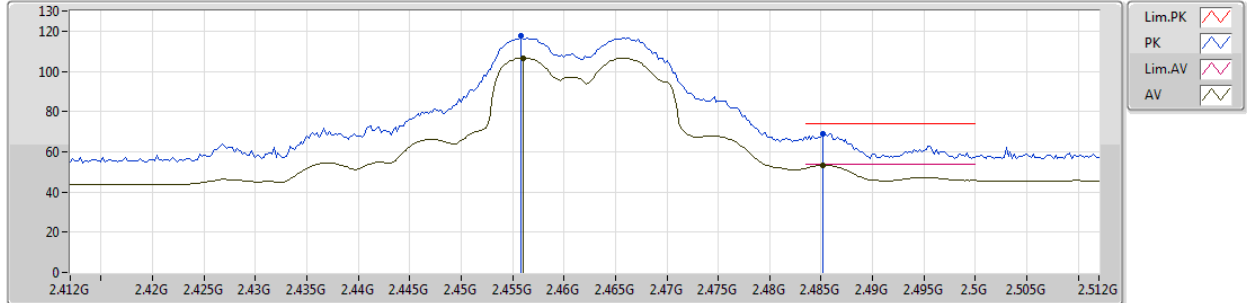
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.458G	108.56	Inf	-Inf	31.02	3	Vertical	57	1.38	-
AV	2.4876G	53.51	54.00	-0.49	31.13	3	Vertical	57	1.38	-
PK	2.4584G	119.25	Inf	-Inf	31.02	3	Vertical	57	1.38	-
PK	2.4868G	71.52	74.00	-2.48	31.12	3	Vertical	57	1.38	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2462MHz_TX



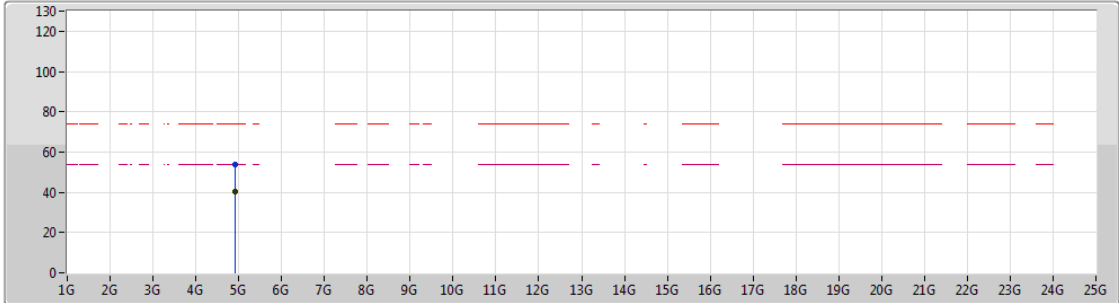
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.456G	106.71	Inf	-Inf	31.01	3	Vertical	270	1.05	-
AV	2.4852G	53.28	54.00	-0.72	31.12	3	Vertical	270	1.05	-
PK	2.4558G	117.52	Inf	-Inf	31.01	3	Vertical	270	1.05	-
PK	2.4852G	68.87	74.00	-5.13	31.12	3	Vertical	270	1.05	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2462MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

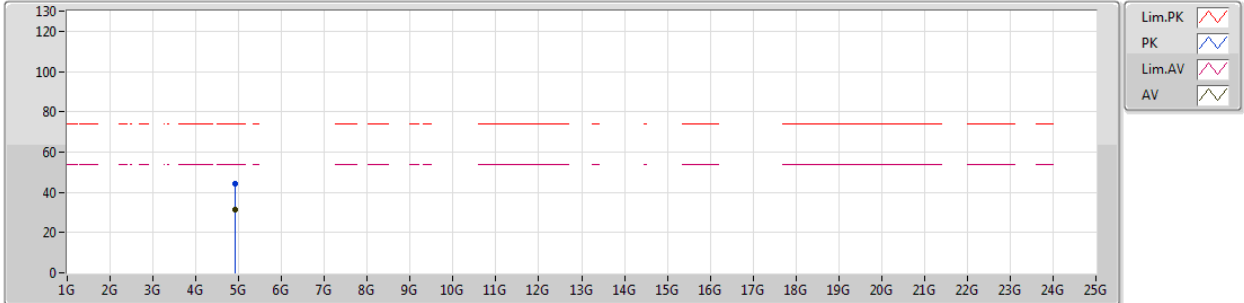
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92328G	40.20	54.00	-13.80	2.38	3	Vertical	142	1.01	-
PK	4.92298G	53.60	74.00	-20.40	2.38	3	Vertical	142	1.01	-



802.11g_Nss1,(6Mbps)_3TX

29/12/2018

2462MHz_TX



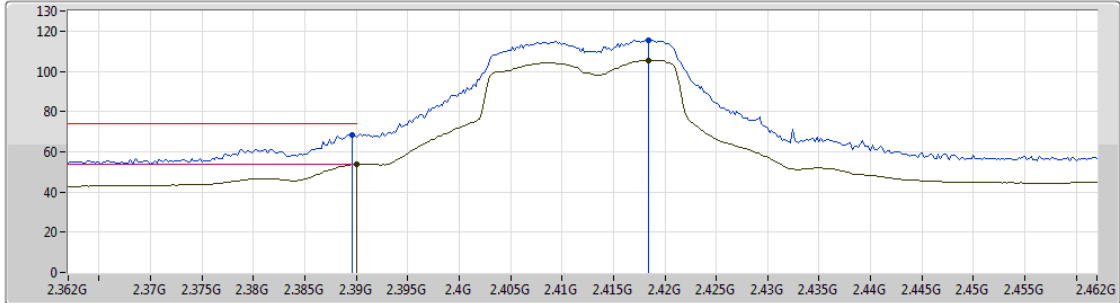
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92988G	31.63	54.00	-22.37	2.40	3	Horizontal	182	1.45	-
PK	4.92046G	44.44	74.00	-29.56	2.36	3	Horizontal	182	1.45	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2412MHz_TX



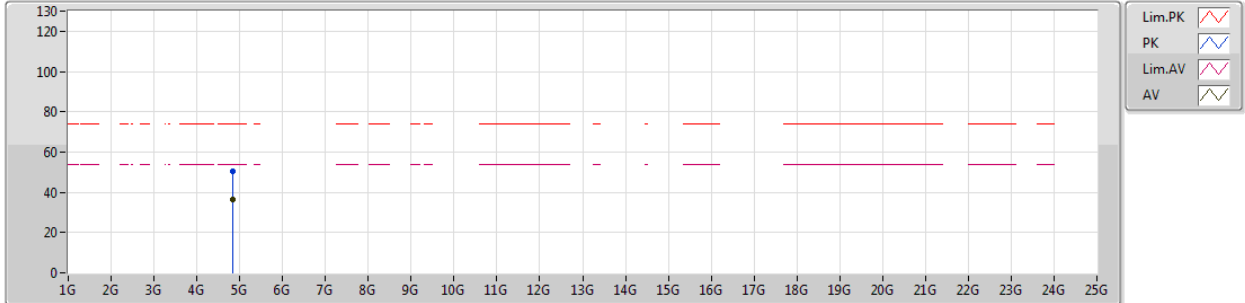
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.76	54.00	-0.24	30.77	3	Vertical	78	1.20	-
AV	2.4184G	105.54	Inf	-Inf	30.87	3	Vertical	78	1.20	-
PK	2.3896G	68.38	74.00	-5.62	30.77	3	Vertical	78	1.20	-
PK	2.4184G	115.65	Inf	-Inf	30.87	3	Vertical	78	1.20	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2412MHz_TX

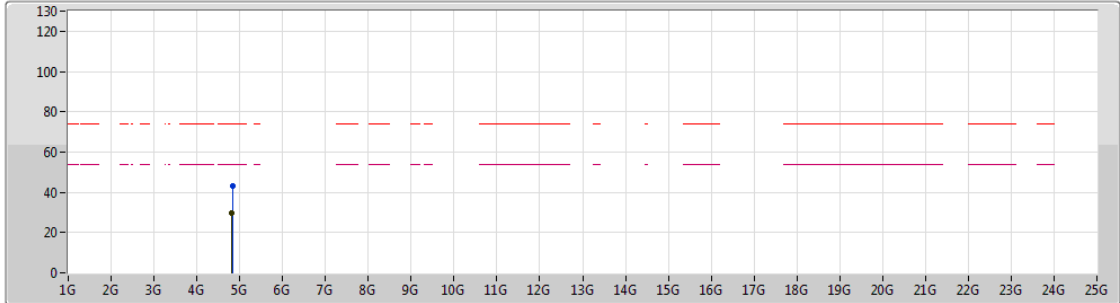






Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82632G	36.37	54.00	-17.63	2.14	3	Vertical	125	2.99	-
PK	4.82712G	50.22	74.00	-23.78	2.14	3	Vertical	125	2.99	-

802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2412MHz_TX



Lim.PK 
 PK 
 Lim.AV 
 AV 

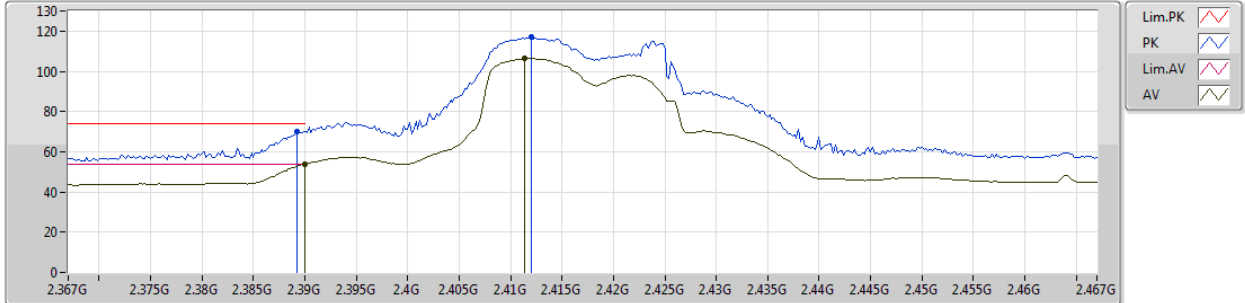
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.80942G	29.66	54.00	-24.34	2.10	3	Horizontal	298	1.01	-
PK	4.82898G	43.34	74.00	-30.66	2.15	3	Horizontal	298	1.01	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2417MHz_TX



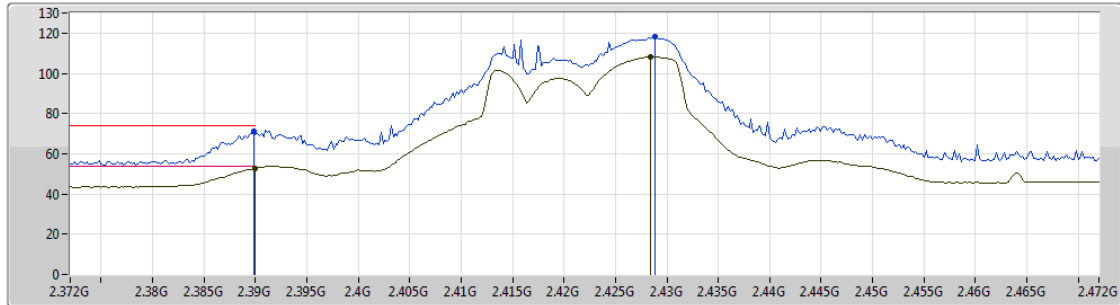
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.78	54.00	-0.22	30.77	3	Vertical	235	1.50	-
AV	2.4114G	106.41	Inf	-Inf	30.85	3	Vertical	235	1.50	-
PK	2.3892G	69.99	74.00	-4.01	30.77	3	Vertical	235	1.50	-
PK	2.412G	116.98	Inf	-Inf	30.85	3	Vertical	235	1.50	-



802.11n HT20_Nss1,(MCS0)_3TX

02/01/2019

2422MHz_TX



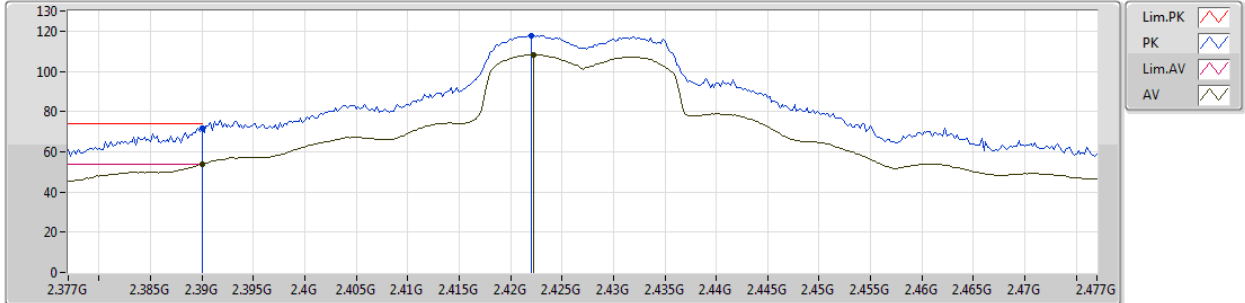
Lim.PK
 PK
 Lim.AV
 AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	52.95	54.00	-1.05	30.77	3	Vertical	84	1.33	-
AV	2.4284G	108.06	Inf	-Inf	30.91	3	Vertical	84	1.33	-
PK	2.3898G	71.07	74.00	-2.93	30.77	3	Vertical	84	1.33	-
PK	2.4288G	117.97	Inf	-Inf	30.91	3	Vertical	84	1.33	-

802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2427MHz_TX



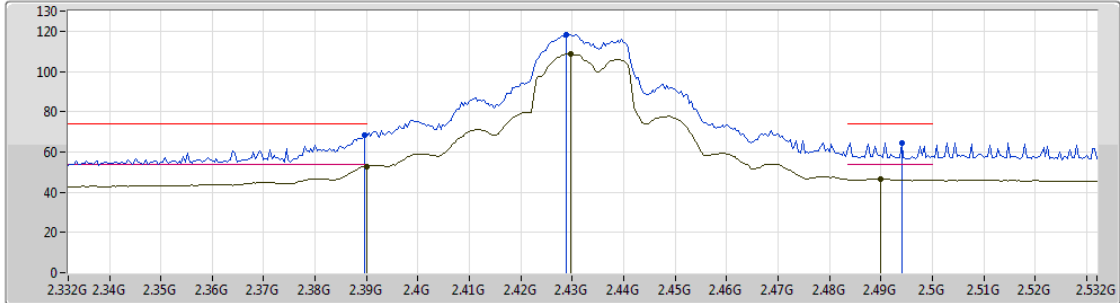
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.69	54.00	-0.31	30.77	3	Vertical	262	1.50	-
AV	2.4222G	108.13	Inf	-Inf	30.89	3	Vertical	262	1.50	-
PK	2.39G	71.78	74.00	-2.22	30.77	3	Vertical	262	1.50	-
PK	2.422G	117.90	Inf	-Inf	30.89	3	Vertical	262	1.50	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2432MHz_TX



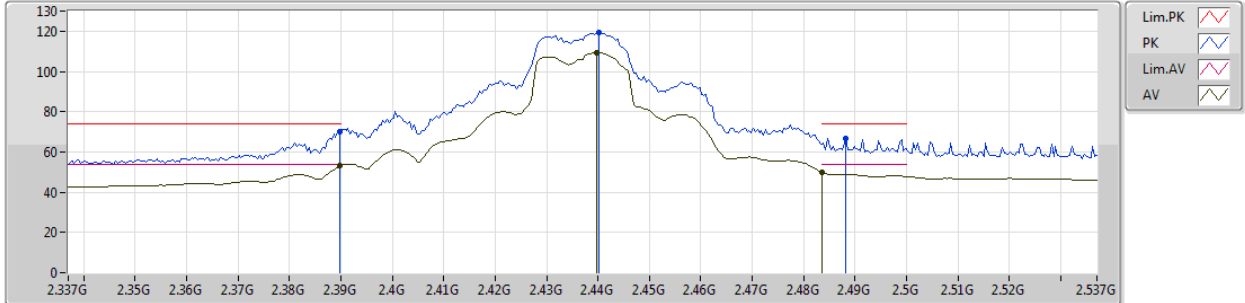
Lim.PK
 PK
 Lim.AV
 AV

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	52.67	54.00	-1.33	30.77	3	Vertical	59	1.28	-
AV	2.4296G	108.56	Inf	-Inf	30.91	3	Vertical	59	1.28	-
AV	2.49G	46.63	54.00	-7.37	31.13	3	Vertical	59	1.28	-
PK	2.3896G	68.11	74.00	-5.89	30.77	3	Vertical	59	1.28	-
PK	2.4288G	118.17	Inf	-Inf	30.91	3	Vertical	59	1.28	-
PK	2.494G	64.58	74.00	-9.42	31.15	3	Vertical	59	1.28	-

802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



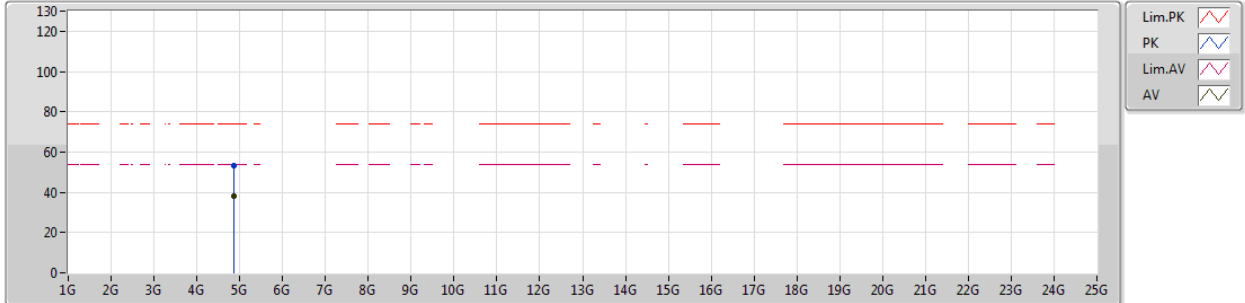
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.04	54.00	-0.96	30.77	3	Vertical	268	1.50	-
AV	2.4398G	109.24	Inf	-Inf	30.95	3	Vertical	268	1.50	-
AV	2.4835G	50.04	54.00	-3.96	31.11	3	Vertical	268	1.50	-
PK	2.3898G	69.99	74.00	-4.01	30.77	3	Vertical	268	1.50	-
PK	2.4402G	119.37	Inf	-Inf	30.95	3	Vertical	268	1.50	-
PK	2.4882G	66.67	74.00	-7.33	31.13	3	Vertical	268	1.50	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



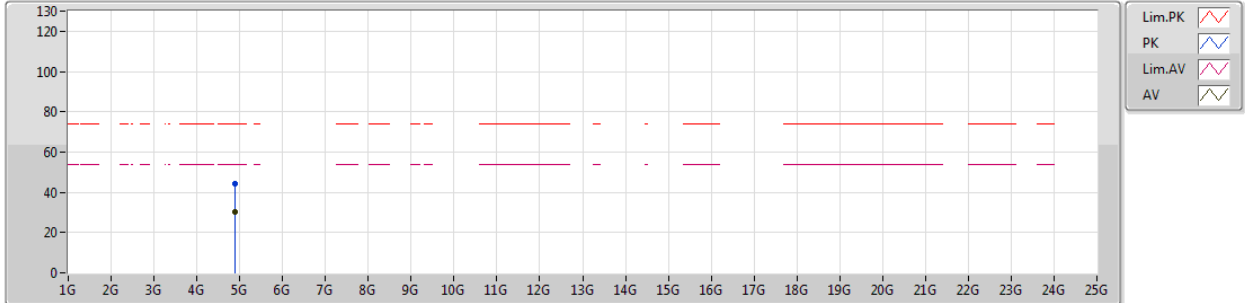
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87694G	38.32	54.00	-15.68	2.26	3	Vertical	123	2.93	-
PK	4.8767G	53.47	74.00	-20.53	2.26	3	Vertical	123	2.93	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



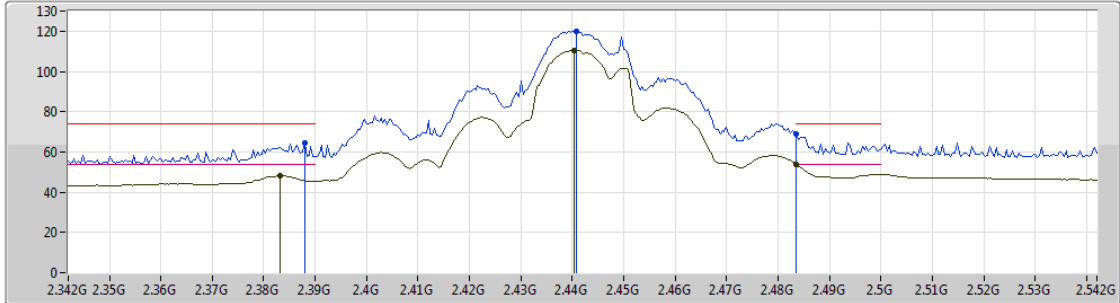
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88306G	30.31	54.00	-23.69	2.27	3	Horizontal	94	1.23	-
PK	4.8845G	44.21	74.00	-29.79	2.29	3	Horizontal	94	1.23	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2442MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

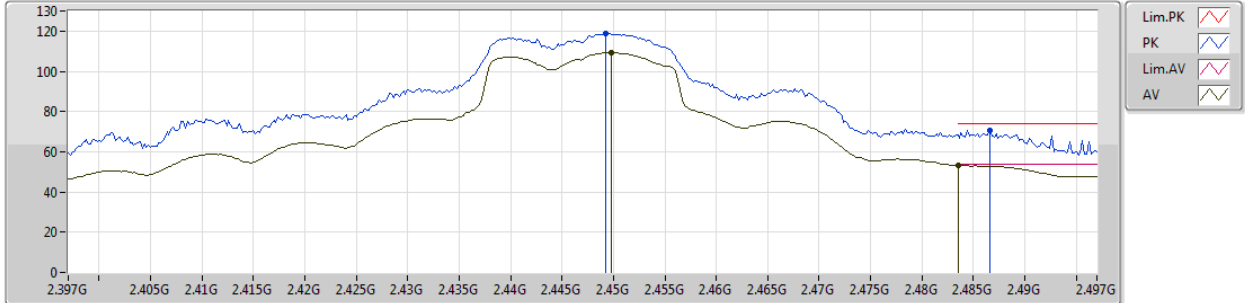
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3832G	48.08	54.00	-5.92	30.75	3	Vertical	77	1.32	-
AV	2.4404G	110.53	Inf	-Inf	30.95	3	Vertical	77	1.32	-
AV	2.4835G	53.55	54.00	-0.45	31.11	3	Vertical	77	1.32	-
PK	2.388G	64.17	74.00	-9.83	30.77	3	Vertical	77	1.32	-
PK	2.4408G	119.94	Inf	-Inf	30.95	3	Vertical	77	1.32	-
PK	2.4835G	69.14	74.00	-4.86	31.11	3	Vertical	77	1.32	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2447MHz_TX



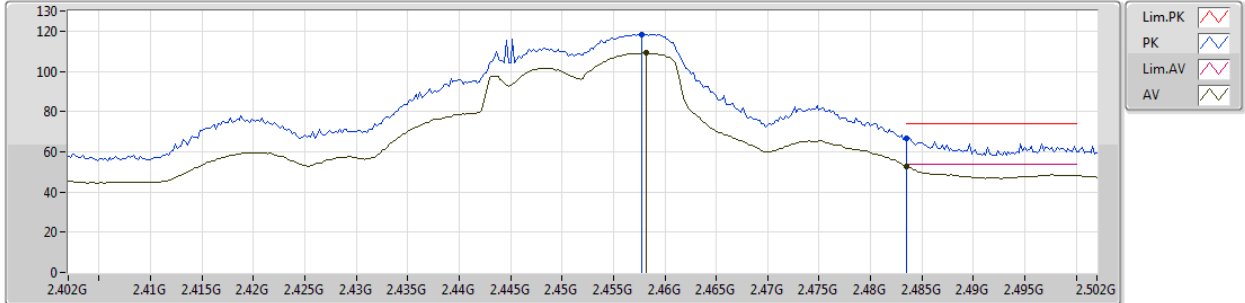
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4498G	109.19	Inf	-Inf	30.99	3	Vertical	83	1.42	-
AV	2.4835G	53.23	54.00	-0.77	31.11	3	Vertical	83	1.42	-
PK	2.4492G	118.97	Inf	-Inf	30.99	3	Vertical	83	1.42	-
PK	2.4866G	70.79	74.00	-3.21	31.12	3	Vertical	83	1.42	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2452MHz_TX



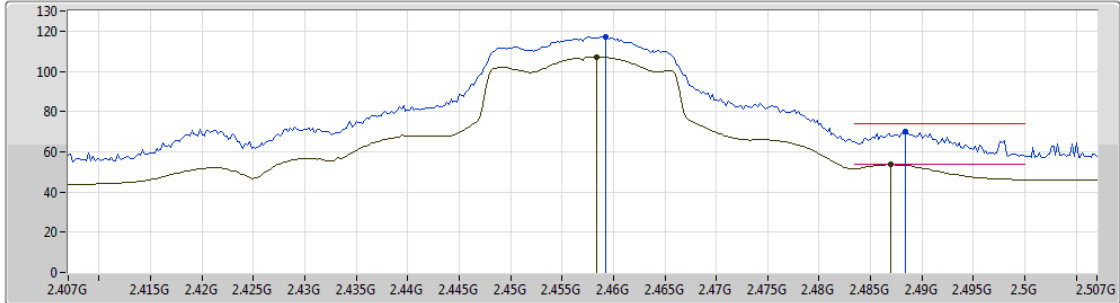
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4578G	118.49	Inf	-Inf	31.02	3	Vertical	243	1.50	-
AV	2.4582G	109.01	Inf	-Inf	31.02	3	Vertical	243	1.50	-
PK	2.4835G	66.72	74.00	-7.28	31.11	3	Vertical	243	1.50	-
AV	2.4835G	52.87	54.00	-1.13	31.11	3	Vertical	243	1.50	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2457MHz_TX



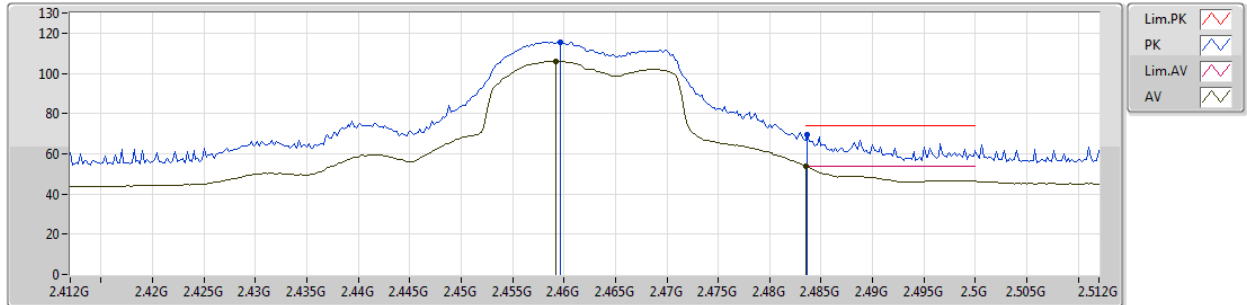
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4584G	107.12	Inf	-Inf	31.02	3	Vertical	244	1.58	-
AV	2.487G	53.64	54.00	-0.36	31.12	3	Vertical	244	1.58	-
PK	2.4592G	117.28	Inf	-Inf	31.03	3	Vertical	244	1.58	-
PK	2.4884G	70.27	74.00	-3.73	31.13	3	Vertical	244	1.58	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2462MHz_TX



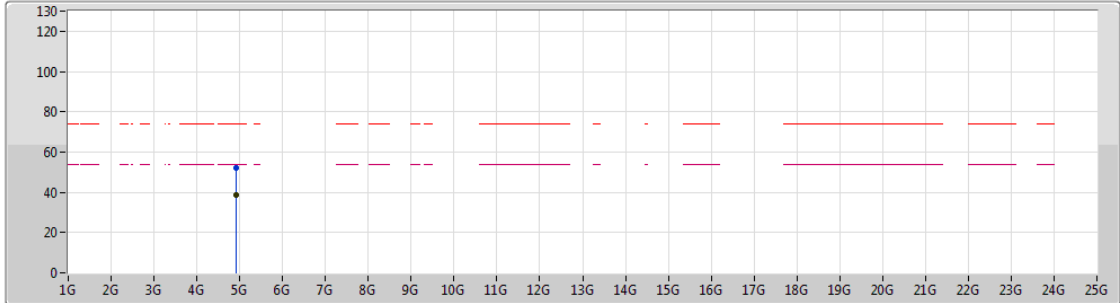
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4592G	106.03	Inf	-Inf	31.03	3	Vertical	273	1.14	-
AV	2.4835G	53.89	54.00	-0.11	31.11	3	Vertical	273	1.14	-
PK	2.4596G	115.68	Inf	-Inf	31.03	3	Vertical	273	1.14	-
PK	2.4836G	69.74	74.00	-4.26	31.11	3	Vertical	273	1.14	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2462MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

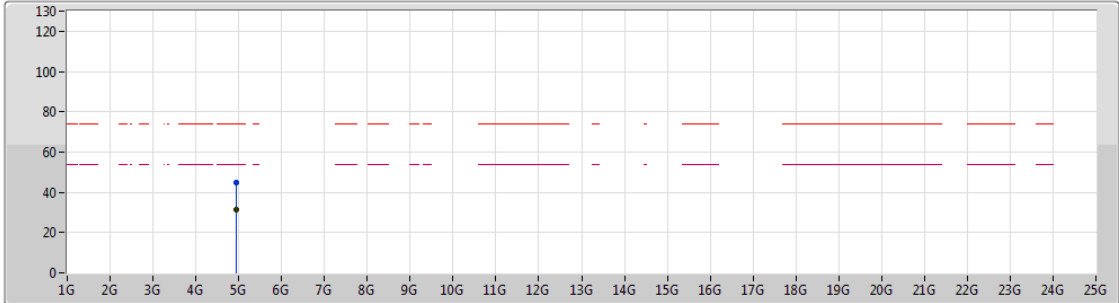
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9219G	38.80	54.00	-15.20	2.38	3	Vertical	141	1.02	-
PK	4.92118G	52.31	74.00	-21.69	2.36	3	Vertical	141	1.02	-



802.11n HT20_Nss1,(MCS0)_3TX

29/12/2018

2462MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

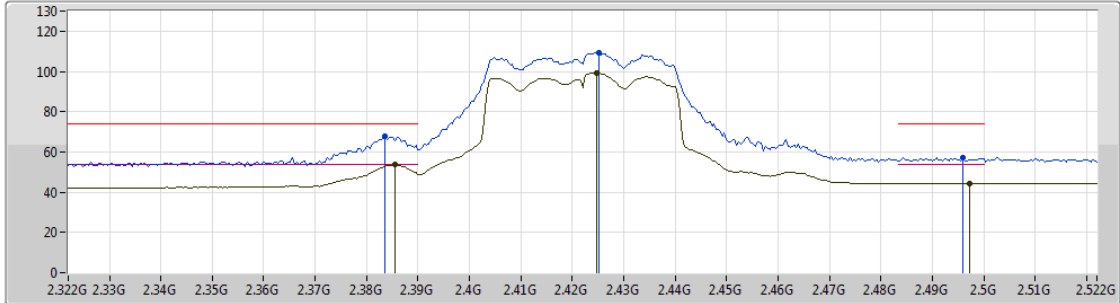
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.93294G	31.55	54.00	-22.45	2.40	3	Horizontal	103	1.36	-
PK	4.93162G	45.00	74.00	-29.00	2.40	3	Horizontal	103	1.36	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2422MHz_TX



Legend for the spectrum plot:

- Lim.PK
- PK
- Lim.AV
- AV

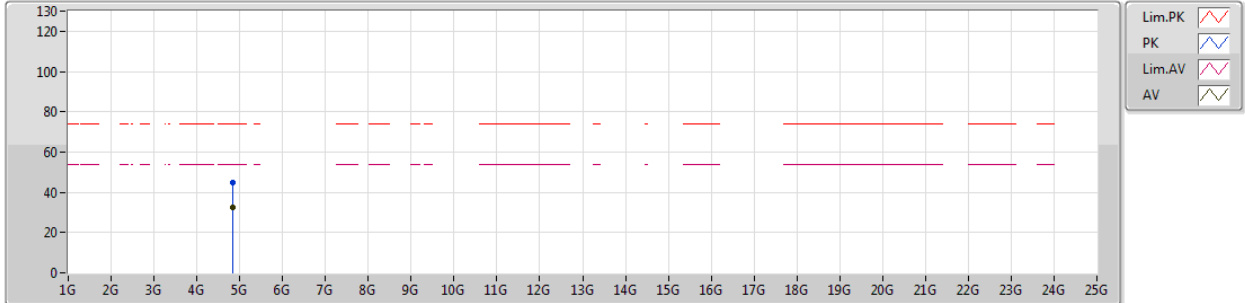
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3856G	53.58	54.00	-0.42	30.76	3	Vertical	263	1.39	-
AV	2.4248G	99.29	Inf	-Inf	30.90	3	Vertical	263	1.39	-
AV	2.4972G	44.52	54.00	-9.48	31.16	3	Vertical	263	1.39	-
PK	2.3836G	67.96	74.00	-6.04	30.75	3	Vertical	263	1.39	-
PK	2.4252G	109.25	Inf	-Inf	30.90	3	Vertical	263	1.39	-
PK	2.496G	57.43	74.00	-16.57	31.16	3	Vertical	263	1.39	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2422MHz_TX



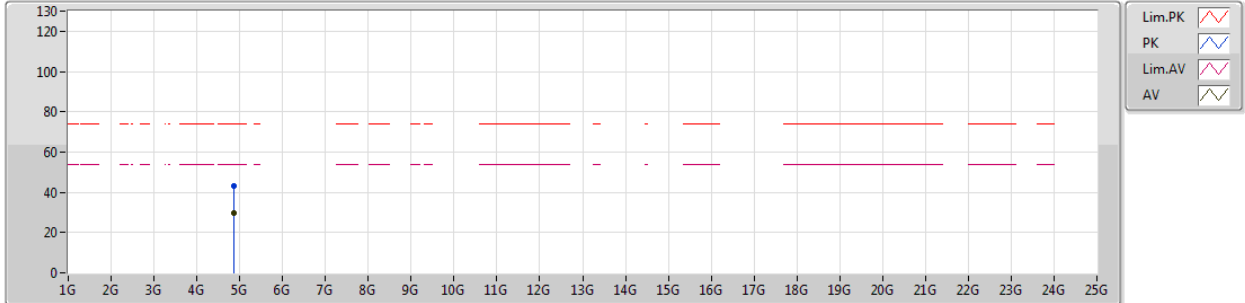
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.84574G	32.35	54.00	-21.65	2.18	3	Vertical	131	2.99	-
PK	4.8443G	45.02	74.00	-28.98	2.18	3	Vertical	131	2.99	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2422MHz_TX



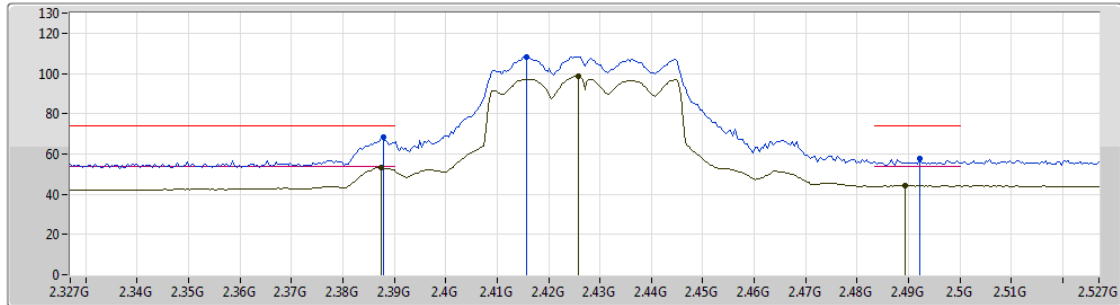
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.85168G	29.62	54.00	-24.38	2.20	3	Horizontal	38	1.71	-
PK	4.85804G	43.20	74.00	-30.80	2.21	3	Horizontal	38	1.71	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2427MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

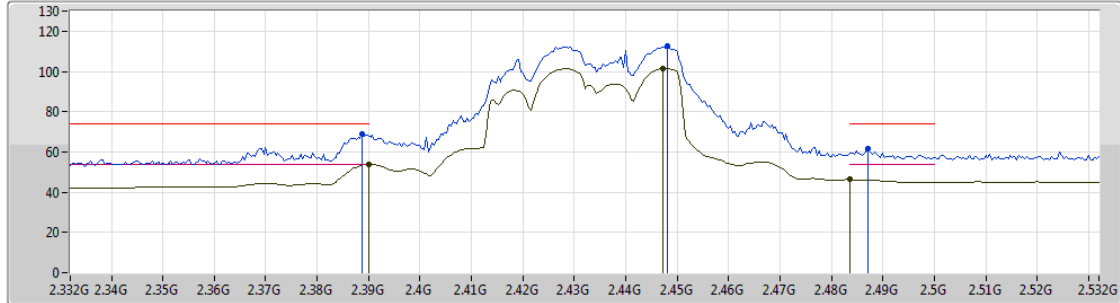
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3874G	53.26	54.00	-0.74	30.76	3	Vertical	292	1.36	-
AV	2.4258G	98.58	Inf	-Inf	30.90	3	Vertical	292	1.36	-
AV	2.4894G	44.23	54.00	-9.77	31.13	3	Vertical	292	1.36	-
PK	2.3878G	68.18	74.00	-5.82	30.77	3	Vertical	292	1.36	-
PK	2.4158G	108.37	Inf	-Inf	30.86	3	Vertical	292	1.36	-
PK	2.4922G	57.44	74.00	-16.56	31.14	3	Vertical	292	1.36	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2432MHz_TX

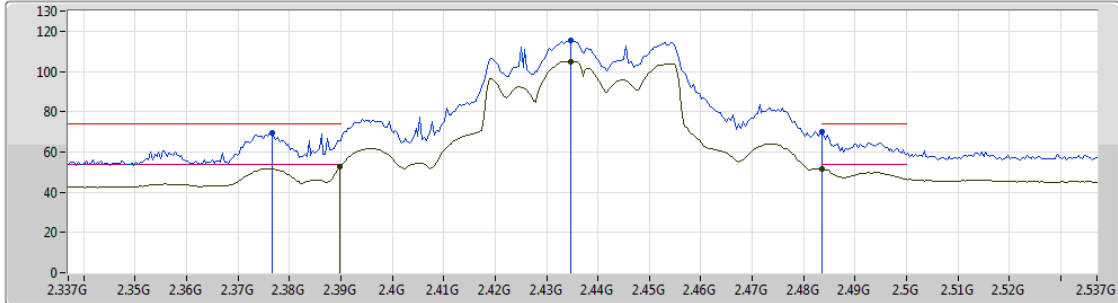


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.82	54.00	-0.18	30.77	3	Vertical	245	1.01	-
AV	2.4472G	101.28	Inf	-Inf	30.98	3	Vertical	245	1.01	-
AV	2.4835G	46.25	54.00	-7.75	31.11	3	Vertical	245	1.01	-
PK	2.3888G	68.88	74.00	-5.12	30.77	3	Vertical	245	1.01	-
PK	2.448G	112.35	Inf	-Inf	30.98	3	Vertical	245	1.01	-
PK	2.4872G	61.47	74.00	-12.53	31.12	3	Vertical	245	1.01	-

802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



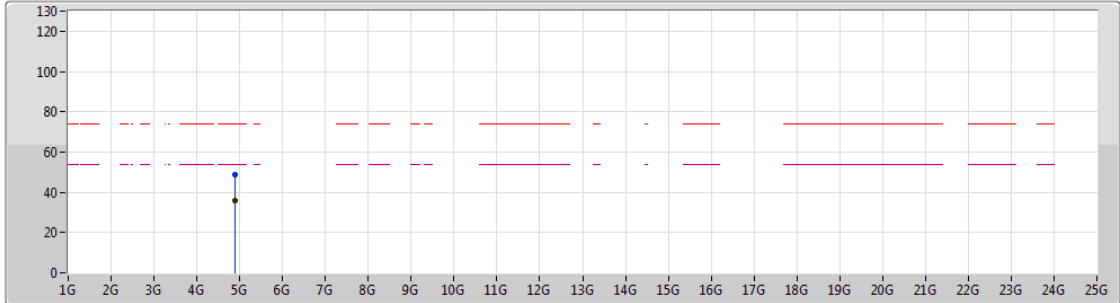
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	52.61	54.00	-1.39	30.77	3	Vertical	253	1.50	-
AV	2.4346G	105.06	Inf	-Inf	30.94	3	Vertical	253	1.50	-
AV	2.4835G	51.43	54.00	-2.57	31.11	3	Vertical	253	1.50	-
PK	2.3766G	69.53	74.00	-4.47	30.72	3	Vertical	253	1.50	-
PK	2.4346G	115.41	Inf	-Inf	30.94	3	Vertical	253	1.50	-
PK	2.4835G	70.04	74.00	-3.96	31.11	3	Vertical	253	1.50	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

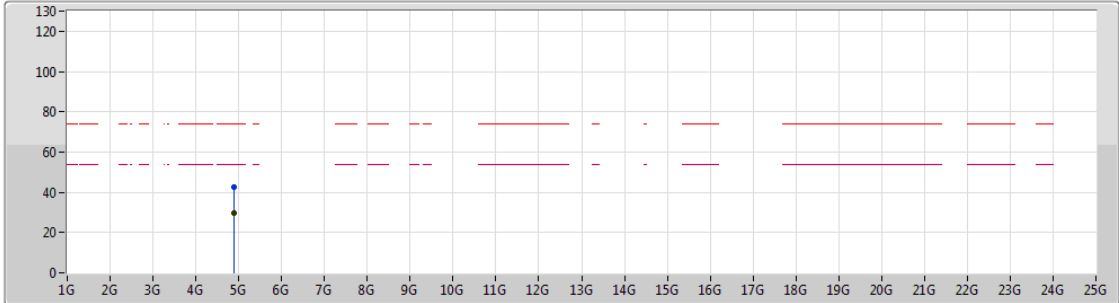
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88618G	35.84	54.00	-18.16	2.29	3	Vertical	132	2.93	-
PK	4.8869G	48.77	74.00	-25.23	2.29	3	Vertical	132	2.93	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2437MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

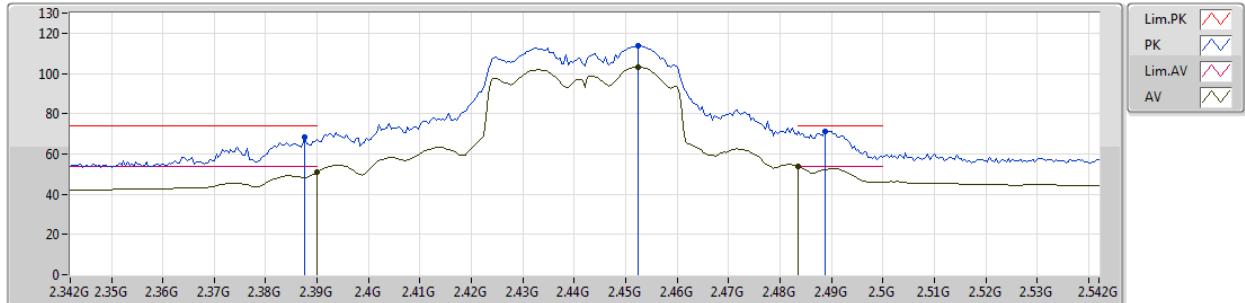
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88726G	29.84	54.00	-24.16	2.29	3	Horizontal	185	1.50	-
PK	4.88G	42.78	74.00	-31.22	2.27	3	Horizontal	185	1.50	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2442MHz_TX

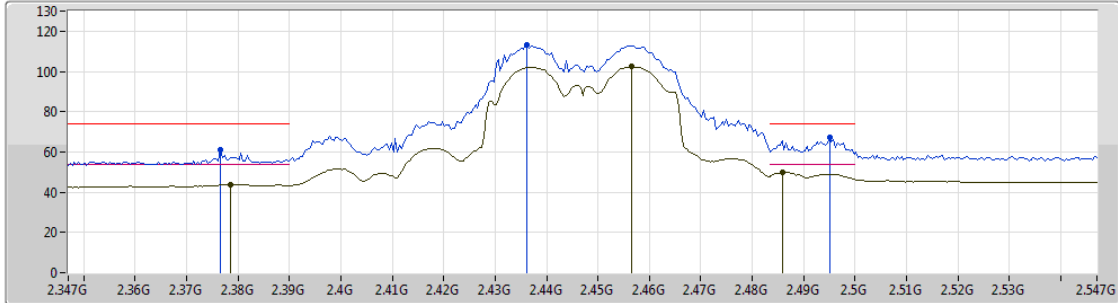


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	50.72	54.00	-3.28	30.77	3	Vertical	240	1.61	-
AV	2.4524G	103.03	Inf	-Inf	31.00	3	Vertical	240	1.61	-
AV	2.4835G	53.80	54.00	-0.20	31.11	3	Vertical	240	1.61	-
PK	2.3876G	68.22	74.00	-5.78	30.77	3	Vertical	240	1.61	-
PK	2.4524G	113.80	Inf	-Inf	31.00	3	Vertical	240	1.61	-
PK	2.4888G	71.23	74.00	-2.77	31.13	3	Vertical	240	1.61	-

802.11n HT40_Nss1,(MCS0)_3TX

02/01/2019

2447MHz_TX

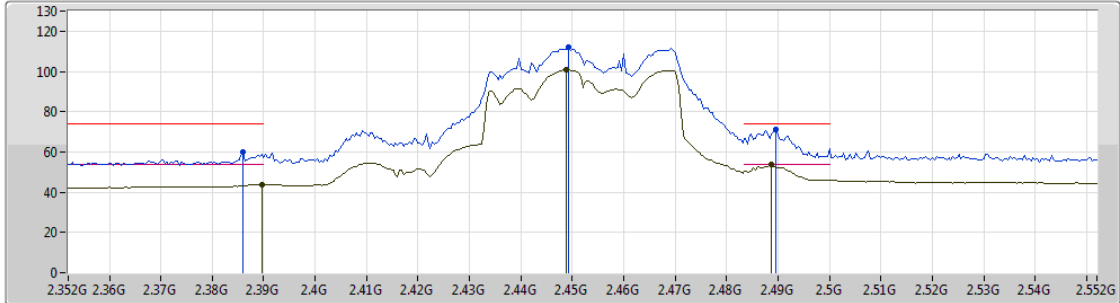


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3786G	43.92	54.00	-10.08	30.74	3	Vertical	263	1.15	-
AV	2.4566G	102.30	Inf	-Inf	31.02	3	Vertical	263	1.15	-
AV	2.4858G	49.74	54.00	-4.26	31.12	3	Vertical	263	1.15	-
PK	2.3766G	61.33	74.00	-12.67	30.72	3	Vertical	263	1.15	-
PK	2.4362G	113.26	Inf	-Inf	30.94	3	Vertical	263	1.15	-
PK	2.495G	67.42	74.00	-6.58	31.16	3	Vertical	263	1.15	-

802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2452MHz_TX



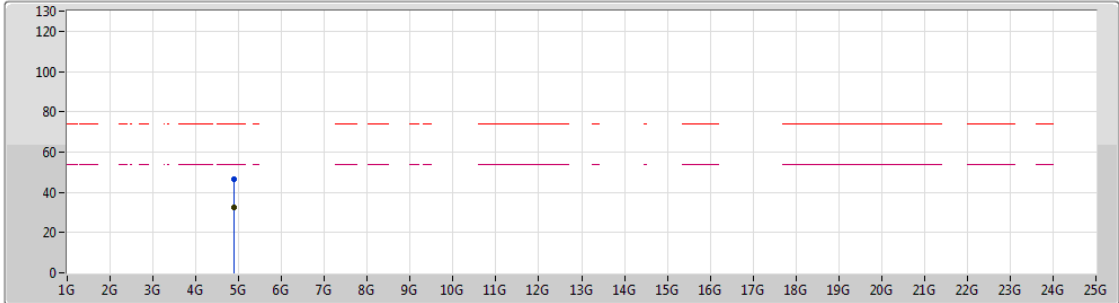
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	43.75	54.00	-10.25	30.77	3	Vertical	259	1.50	-
AV	2.4488G	100.65	Inf	-Inf	30.99	3	Vertical	259	1.50	-
AV	2.4888G	53.53	54.00	-0.47	31.13	3	Vertical	259	1.50	-
PK	2.386G	59.69	74.00	-14.31	30.76	3	Vertical	259	1.50	-
PK	2.4492G	112.28	Inf	-Inf	30.99	3	Vertical	259	1.50	-
PK	2.4896G	71.33	74.00	-2.67	31.13	3	Vertical	259	1.50	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2452MHz_TX



Lim.PK
 PK
 Lim.AV
 AV

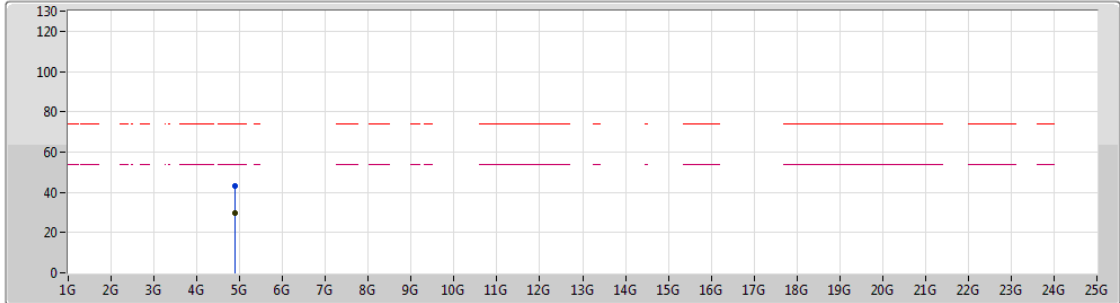
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89872G	32.75	54.00	-21.25	2.32	3	Vertical	185	1.07	-
PK	4.9004G	46.39	74.00	-27.61	2.32	3	Vertical	185	1.07	-



802.11n HT40_Nss1,(MCS0)_3TX

29/12/2018

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89134G	29.72	54.00	-24.28	2.30	3	Horizontal	22	1.50	-
PK	4.89824G	43.30	74.00	-30.70	2.32	3	Horizontal	22	1.50	-