



Report No.: FR852814-03AC

FCC Test Report

FCC ID : 2AEUPBHASC052

Equipment : Stick Up Cam Elite

Brand Name : Ring LLC

Model Name : Stick Up Cam Wired

Applicant Ring LLC

1523 26th St, Santa Monica, CA 90404, USA

Manufacturer Chicony Electronics Co.,Ltd.

: No.69, Sec. 2, Guangfu Rd., Sanchong Dist. New Taipei

City 241 Taiwan

Standard : 47 CFR FCC Part 15,247

The product was received on Jun. 01, 2018, and testing was started from Jun. 17, 2018 and completed on Sep. 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

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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

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History of this test report

Report No.	Version	Description	Issued Date
FR852814-03AC	01	Initial issue of report	Oct. 04, 2019
FR852814-03AC	02	The Manufacturer information was update This report is the latest version replacing for the report issued on Oct. 04, 2019	Oct. 16, 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	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

Reviewed by: Sam Tsai

Report Producer: Debby Hung

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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]

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Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

۹nt.	Port	Brand	Model Name	Antenna Type	Connector
1	1	=	Orion Wifi Antenna	PIFA Antenna	Fixed on board

2.	4G	5	G	В	Т
Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
2412	0.94	5180	2.68	2402	0.94
2417	0.94	5200	2.68	2440	0.69
2422	0.94	5240	2.77	2480	0.10
2427	0.69	5190	2.68	-	-
2432	0.69	5230	2.77	-	-
2437	0.69	5745	3.12	-	-
2442	0.69	5785	2.65	-	-
2447	0.69	5825	1.67	-	-
2452	0.69	5755	3.12	-	=
2457	0.69	5795	2.65	-	-
2462	0.69	-	-	-	-

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5 GHz function:

For IEEE 802.11a/n mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

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1.1.3 EUT Information

	Operational Condition						
EUT	Power T	ype	From AC Adapter				
EUT	Γ Function	1	\boxtimes	Point-to-multipoir	nt 🗌		Point-to-point
Bea	mforming	Function		With beamformin	ng 🛛		Without beamforming
				Т	ype of E	EU	Т
\boxtimes	Stand-alo	ne					
	Combined	d (EUT where	e the	radio part is fully	integrate	ed	within another device)
	Combined	d Equipment	- Bra	and Name / Mode	l No.:		
	Plug-in radio (EUT intended for a variety of host systems)						
	Host System - Brand Name / Model No.:						
	Other:	_			-		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.99	0.044	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.937	0.283	1.43m	1k
802.11n HT20	0.932	0.306	1.338m	1k

1.1.5 Table for Existing Change

This product is an extension of original one reported under Sporton project number: FR852814-02AC Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Two PoE Adapter and Ethernet Cable was added.	AC Conduction data and Radiated Emission data 30M to 1G was evaluated

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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
- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

	Testing Location								
\boxtimes	HWA YA ADD : No. 52, Huaya 1 st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)								
		TEL	:	886-3-327-3456	886-3-327-3456 FAX : 886-3-327-0973				
				Test site Designation	on No. TW	1190 with FCC.			
\boxtimes									
	TEL: 886-2-2601-1640 FAX: 886-2-2601-1695								
	Test site Designation No. TW1095 with FCC.								

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Andy	23.5°C / 65%	21/Jun/2018
Radiated<9k~30M>	03CH02-HY	Jeff	23.5°C / 60%	15/Aug/2018
Radiated<30M~1G>	03CH02-HY	Terry	22.6°C / 61%	17/Jun/2018
AC Conduction	CO04-HY	Andy	23.5°C / 53.8%	25/Jul/2018
AC Conduction <poe adapter=""></poe>	CO04-HY	David	22~22.5°C / 62.1~62.6%	23/Sep/2019
Radiated < 30M~1GHz > <poe adapter=""></poe>	OS03-LK	Chu	26.1~26.3°C / 65.2~65.4%	24/Sep/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)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 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%

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2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software	DoS
---------------	-----

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	20
2437MHz	20
2462MHz	20
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	16.5
2417MHz	20
2437MHz	20
2457MHz	20
2462MHz	16
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	16
2417MHz	19
2422MHz	20
2437MHz	20
2457MHz	20
2462MHz	16

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2.3 **The Worst Case Measurement Configuration**

TI	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	СТХ	
1	Adapter mode	
2	PoE Adapter mode	

Th	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	

Th	e Worst Case Mode for Fo	ollowing Conformance Te	sts
Tests Item	Emissions in Restricted From	equency 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	Adapter mode		
2	PoE Adapter mode		
Operating Mode > 1GHz	CTX		
	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			
Worst Planes of EUT	V		

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2.4 Accessories

		Accessorie	 S		
Indoor Adapter	Brand Name	DEE VAN ENTERPRISE	Model Name	DSA-15CAB-05 050250	
	Power Rating	I/P: <u>100</u> - <u>240</u> Vac, <u>0.5</u>	A, O/P: <u>5</u> V	dc, <u>2.5 A</u>	
	Brand Name	ring	Model Name	DSA-15PFL-05 FUS 050250	
Outdoor Adoptor	Power Rating	I/P: 100-240V ~ 0.5A M	AX 50-60Hz; C	D/P: 5V 2.5A	
Outdoor Adapter DC Power Cord 2.45 meter, non-shielded cabl		d cable, w/o fe	errite core		
	AC Power Cord 4.53 meter, non-shielded cable, w/o ferrite core		errite core		
PoE	Brand Name	Phihong	Model Name	POE15M	
Adapter 1	Power Rating	I/P: 100 - 240Vac, 0.8 A	A, O/P: 56 Vdc	, 0.275 A	
DoE Adoptor 2	Brand Name	ONV	Model Name	PSE3010DCG	
PoE Adapter 2	Power Rating	I/P: 100 - 240Vac, 0.8 A	, O/P: 5 Vdc, 2	2.5A	
Adaptor 2	Brand Name	ZTE	Model Name	RJ-AS120150U104-B	
Adapter 2	Adapter 2 Power Rating 1/		I/P: 100 - 240Vac,1 A, O/P:12Vdc,1.5A		
USB Cable	Power Rating	2.45 meter, non-shielde	d cable, w/o fe	errite core	
6ft Ethernet Cable	Power Rating	1.8 meter, non-shielded	cable, w/o fer	rite core	

Reminder: Regarding to more detail and other information, please refer to user manual.

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2.5 Support Equipment

	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	AC Power Source	G.W	APS-9102	-

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		Support Equipment -	AC Conduction	
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE Adapter	Phihong	POE15M	-
Z1	802.11ac Dual-Band Wireless-AC1750 Gigabit Router	ASUS	RT-AC66U	MSQ-RTAC66U
Z2	iPhone 8	Apple	MRRM2TA/A	-
Z3	Notebook	DELL	D5500	DoC

	Support Equipment - Radiated Emission			
No.	Equipment	Brand Name	Model Name	FCC ID
Z1	AP Router	Netgear	R6300v2	DoC
Z2	iPad	APPLE	A1538	-
Z3	PoE Adapter	Phihong	POE15M	-

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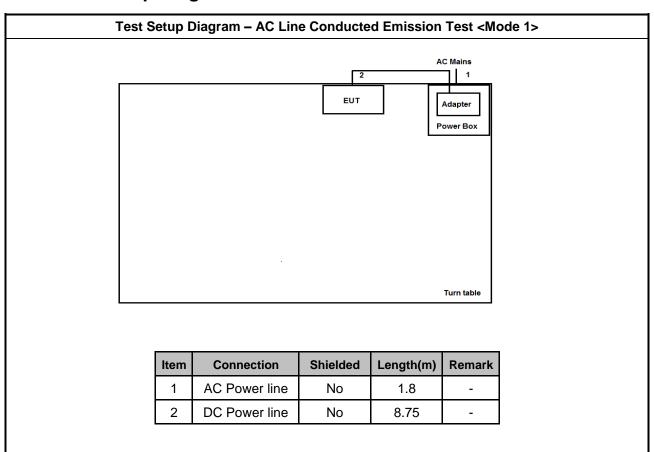
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Test Setup Diagram 2.6



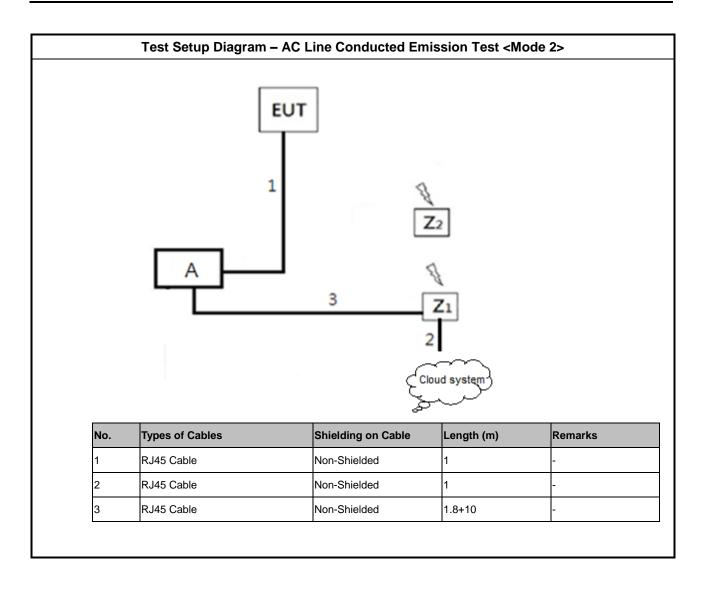
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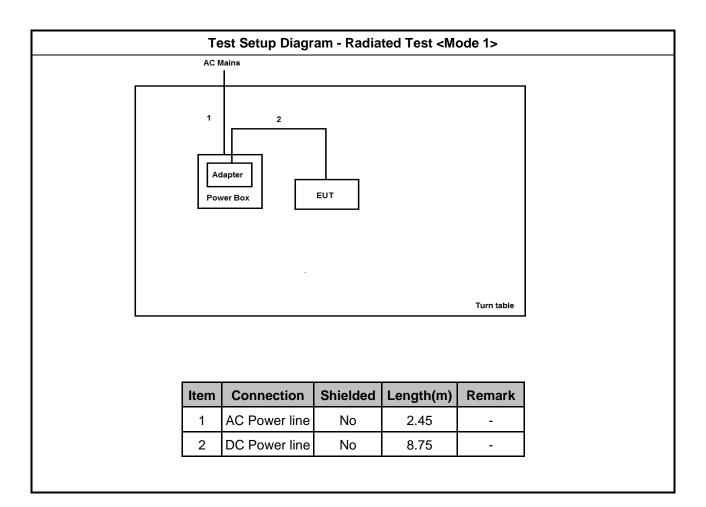
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RJ45 cable

Non-Shielded

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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				
Frequency Emission (MHz)	Quasi-Peak	Average		
0.15-0.5	66 - 56 *	56 - 46 *		
0.5-5	56	46		
5-30	60	50		

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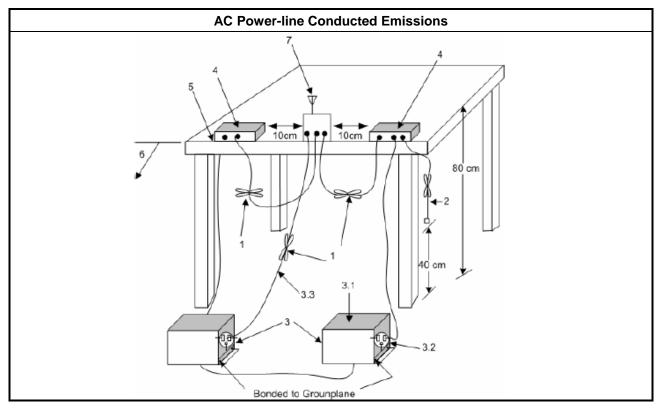
3.1.2 Measuring Instruments

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.	

3.1.4 Test Setup



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.				

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:					
	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.					
	Refer as RSS-Gen, clause 6.7 for for occupied bandwidth testing.					
	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.					

3.2.4 Test Setup

Emission Bandwidth				
Spectrum Analyzer				

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

Maxi	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) 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					
e.i.r.	p. P	ower Limit:					
•	2400	0-2483.5 MHz Band					
	•	Point-to-multipoint systems (P2M): P _{eirp} ≤ 36 dBm (4 W)					
	•	Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$					
	•	Smart antenna system (SAS)					
		- Single beam: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$					
	- Overlap beam: P _{eirp} ≤ MAX(36, P _{Out} + G _{TX}) dBm						
		- Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$					
		aximum peak conducted output power or maximum conducted output power in dBm, 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.

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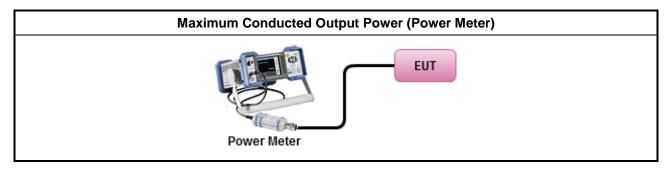
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3.3.3 Test Procedures

	Test Method
•	Maximum Peak Conducted Output Power
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
•	Maximum Average Conducted Output Power
	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
•	For conducted measurement.
	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.
	■ If multiple transmit chains, EIRP calculation could be following as methods: P _{total} = P ₁ + P ₂ + + P _n (calculated in linear unit [mW] and transfer to log unit [dBm]) EIRP _{total} = P _{total} + DG

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3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

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3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit

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

3.4.2 Measuring Instruments

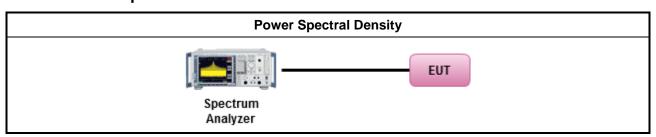
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method

- 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).
 - Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
- For conducted measurement.
 - If The EUT supports multiple transmit chains using options given below:
 - 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

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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 (dB)			
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.

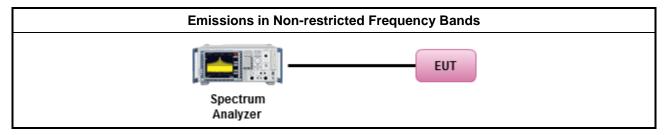
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

	Test Method
•	Refer as 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

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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 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				

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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 KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
- For the transmitter band-edge emissions shall be measured using following options below:
 - 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.
 - Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
 - Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
- Use the following spectrum analyzer settings:
 - Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
- KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
 - Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
 - Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

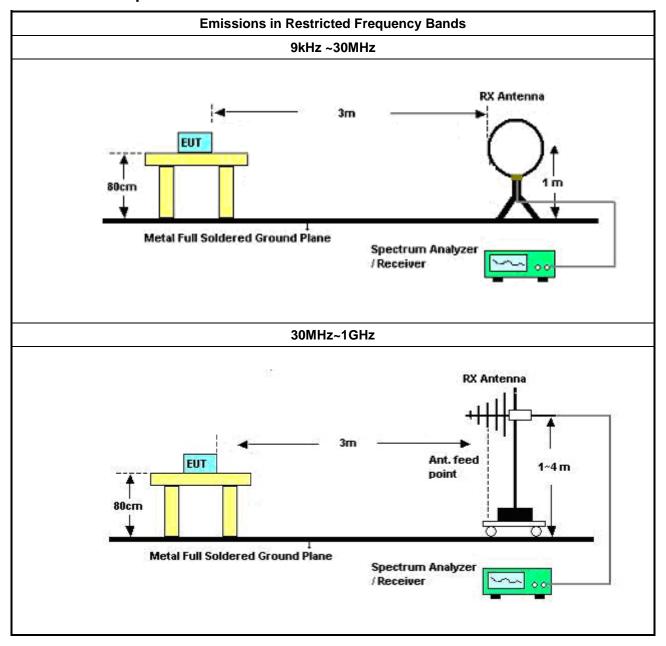
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Test Setup 3.6.4



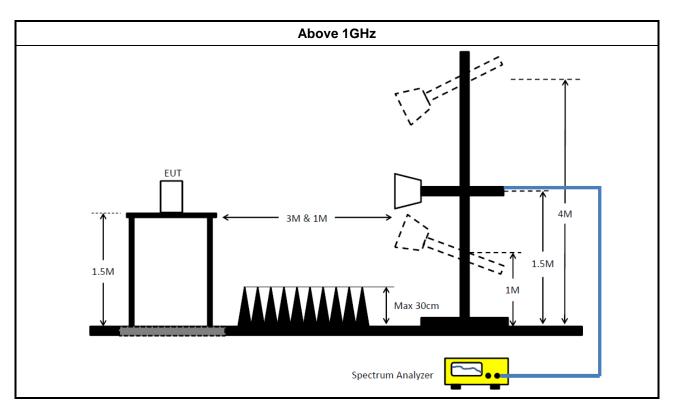
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3.6.5 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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4 Test Equipment and Calibration Data

Instrument for AC Conduction < Mode 1>

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	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHN ER	RG213/U	0761183202000 1	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Puls e Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

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NCR : Non-Calibration Require

Instrument for AC Conduction < Mode 2>

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9KHz ~ 3.6GHz	28/May/2019	27/May/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
Impuls Begrenzer Puls e Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	11/Oct/2018	10/Oct/2019
Software	Sporton	SENSE-EMI	V5.10.5	-	NCR	NCR

NCR : Non-Calibration Require

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FCC Test Report

Instrument for Radiated Test < Mode 1>

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	20/Oct/2017	19/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	29Jun/2017	28/Jun/2018
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	09/Sep/2017	08/Sep/2018
Broadband Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBEC K	BBHA 9120D	BBHA 9120 D 1543	1GHz ~ 18GHz	11/May/ 2018	10/May/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	31/Aug/2017	30/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019

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FCC Test Report

Instrument for Radiated Test < Mode 2>

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Open Area Test Site	SPORTON	OATS-10	OS03-LK	30 MHz ~ 1 GHz 10m, 3m	15/Apr/2019	
Amplifier	HP	8447D	2944A09068	0.1MHz ~ 1.3GHz	20/Dec/2018	19/Dec/2019
Spectrum Analyzer	R&S	FSP	100641	9 kHz ~ 30 GHz	23/Jul/2019	22/Jul/2020
Test Receiver	R&S	ESCS 30	100168	9 kHz ~ 2.75 GHz	12/Dec/2018	11/Dec/2019
Bilog Antenna with 5dB Attenuator	TESEQ & WOKEN	CBL6112D & 00800N1D01N- 05	25236 & 007	30 MHz ~ 1 GHz	06/Jul/2019	05/Jul/2020
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	NCR	NCR
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	NCR	NCR
RF Cable-R10m	Woken	CFD400E-LW	OS03-2500	30 MHz ~ 1 GHz	15/May/2019	14/May/2020
Software	Audix	E3	Version:4	-	NCR	NCR

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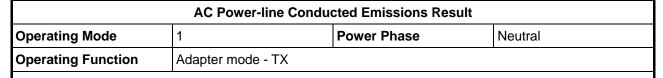
NCR : Non-Calibration Require

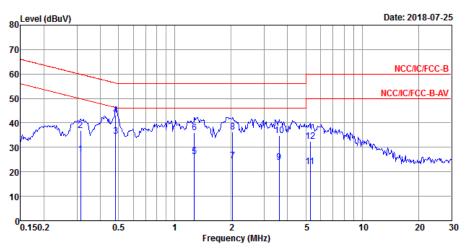
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No. Spec.		Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	0 101515 9kHz~40GHz 08/Dec/2		08/Dec/2017	07/Dec/2018
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	06/Nov/2017	05/Nov/2018
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	06/Nov/2017	05/Nov/2018
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_10	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_10	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1m	HUBER+SUHN ER	SUCOFLEX_10	MY37333/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018

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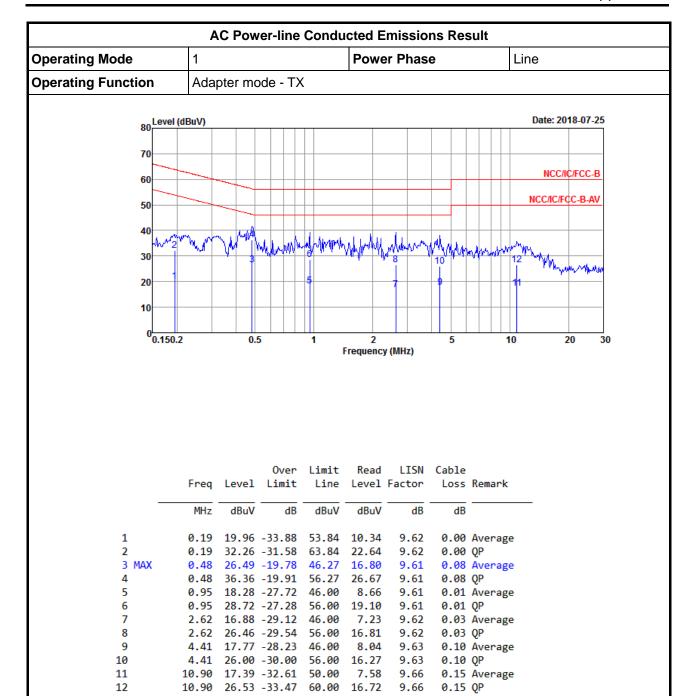
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.31	27.10	-22.78	49.88	17.43	9.61	0.06	Average
2	0.31	37.04	-22.84	59.88	27.37	9.61	0.06	QP
3 MAX	0.48	34.57	-11.70	46.27	24.88	9.61	0.08	Average
4	0.48	43.22	-13.05	56.27	33.53	9.61	0.08	QP
5	1.27	26.30	-19.70	46.00	16.68	9.62	0.00	Average
6	1.27	36.02	-19.98	56.00	26.40	9.62	0.00	QP
7	2.03	24.36	-21.64	46.00	14.73	9.63	0.00	Average
8	2.03	36.22	-19.78	56.00	26.59	9.63	0.00	QP
9	3.60	23.83	-22.17	46.00	14.12	9.64	0.07	Average
10	3.60	34.95	-21.05	56.00	25.24	9.64	0.07	QP
11	5.28	22.08	-27.92	50.00	12.30	9.66	0.12	Average
12	5.28	32.61	-27.39	60.00	22.83	9.66	0.12	QP

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.)

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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.)

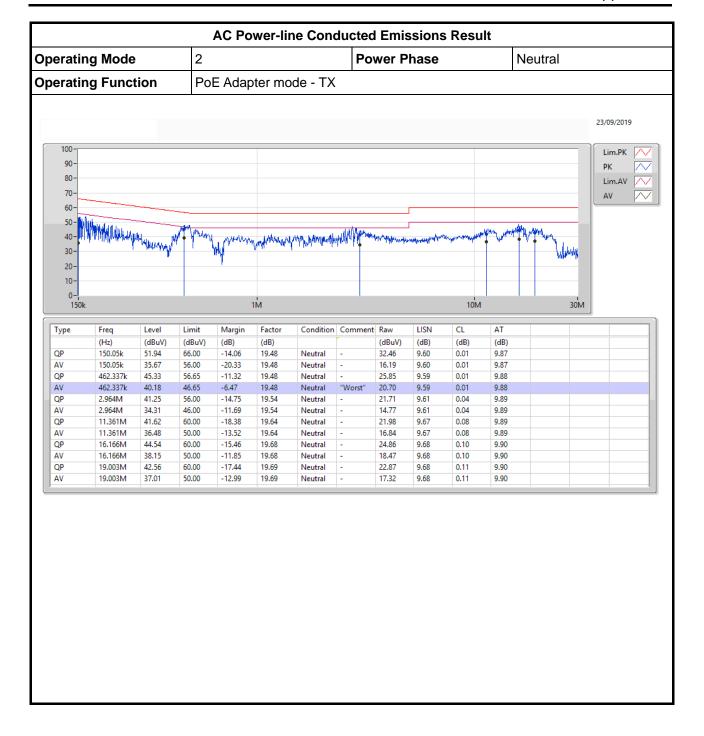
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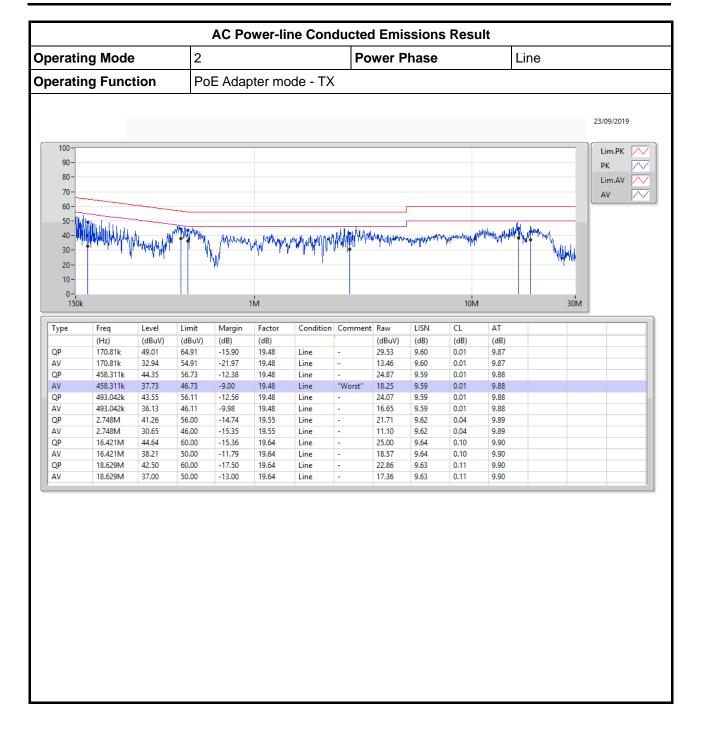
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EBW Result Appendix B

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)_1TX	9М	14.718M	14M7G1D	7.55M	12.919M
802.11g_Nss1,(6Mbps)_1TX	15.675M	17.166M	17M2D1D	14.65M	16.342M
802.11n HT20_Nss1,(MCS0)_1TX	15.075M	18.041M	18M0D1D	14.05M	17.516M

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

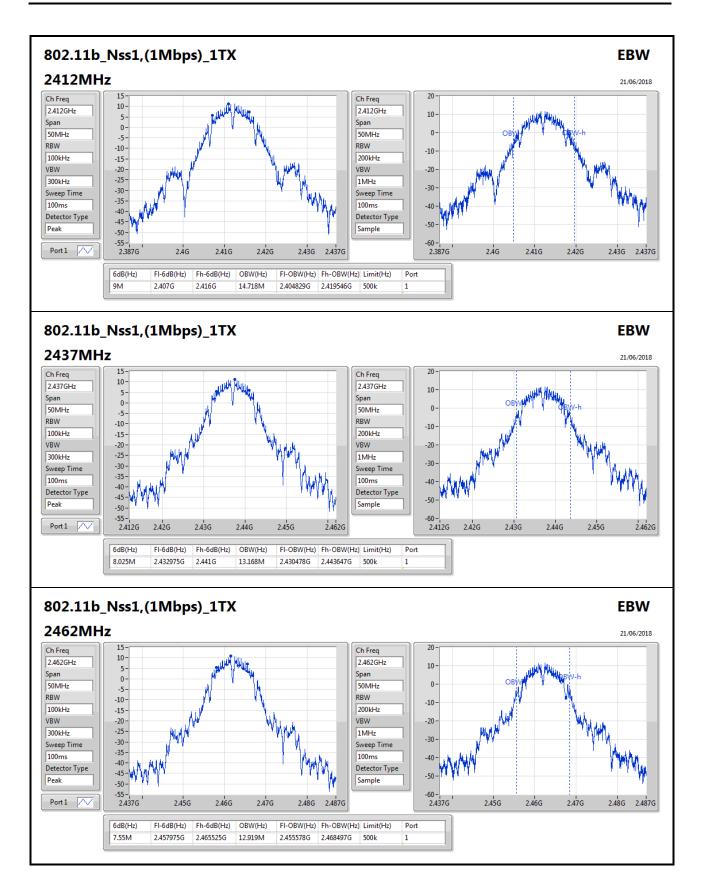
Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	•	-	=
2412MHz_TnomVnom	Pass	500k	9М	14.718M
2437MHz_TnomVnom	Pass	500k	8.025M	13.168M
2462MHz_TnomVnom	Pass	500k	7.55M	12.919M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	16.367M
2437MHz_TnomVnom	Pass	500k	15.675M	17.166M
2462MHz_TnomVnom	Pass	500k	14.65M	16.342M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	14.175M	17.516M
2437MHz_TnomVnom	Pass	500k	14.05M	18.041M
2462MHz_TnomVnom	Pass	500k	15.075M	17.516M

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

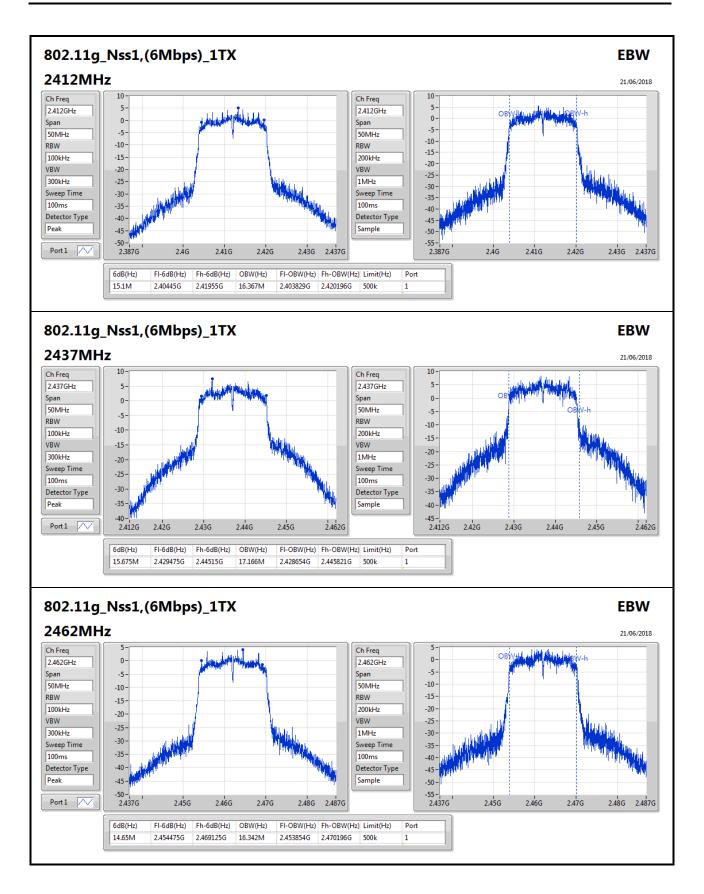
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Appendix B



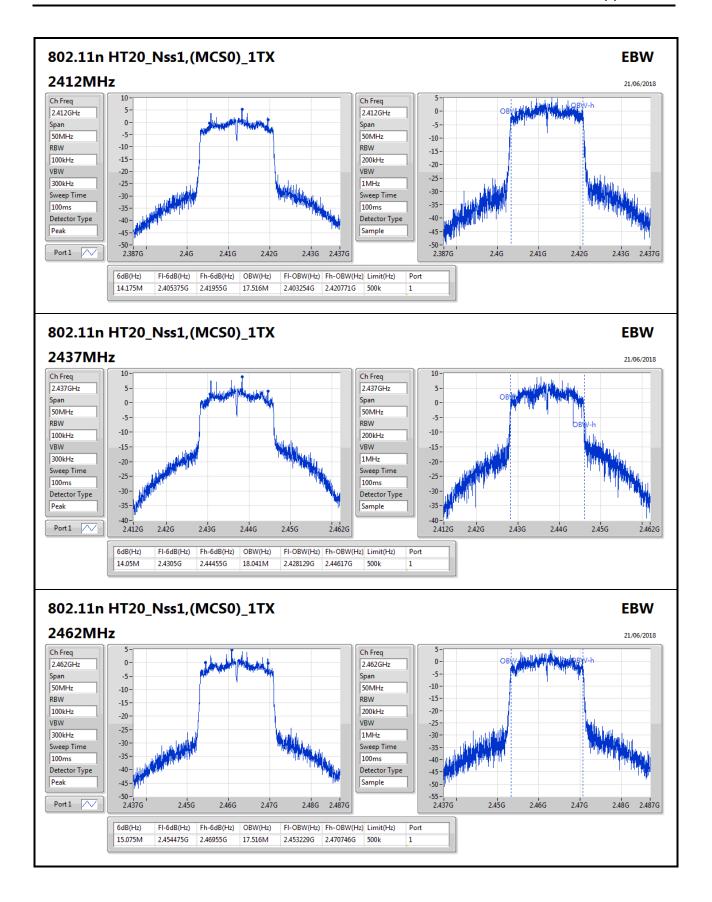






Appendix B







Appendix C **AV Power Result**

Summary

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.75	0.09441
802.11g_Nss1,(6Mbps)_1TX	18.63	0.07295
802.11n HT20_Nss1,(MCS0)_1TX	18.55	0.07161

Result

Mode	Result	DG	Port 1	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	19.75	19.75	30.00
2437MHz_TnomVnom	Pass	0.69	19.50	19.50	30.00
2462MHz_TnomVnom	Pass	0.69	19.00	19.00	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	15.20	15.20	30.00
2417MHz_TnomVnom	Pass	0.94	18.63	18.63	30.00
2437MHz_TnomVnom	Pass	0.69	18.41	18.41	30.00
2457MHz_TnomVnom	Pass	0.69	18.14	18.14	30.00
2462MHz_TnomVnom	Pass	0.69	15.01	15.01	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	15.12	15.12	30.00
2417MHz_TnomVnom	Pass	0.94	17.64	17.64	30.00
2422MHz_TnomVnom	Pass	0.94	18.55	18.55	30.00
2437MHz_TnomVnom	Pass	0.69	18.42	18.42	30.00
2457MHz_TnomVnom	Pass	0.69	18.04	18.04	30.00
2462MHz_TnomVnom	Pass	0.69	14.90	14.90	30.00

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

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Appendix D **PSD Result**

Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.51
802.11g_Nss1,(6Mbps)_1TX	-7.39
802.11n HT20_Nss1,(MCS0)_1TX	-6.72

RBW=3kHz.

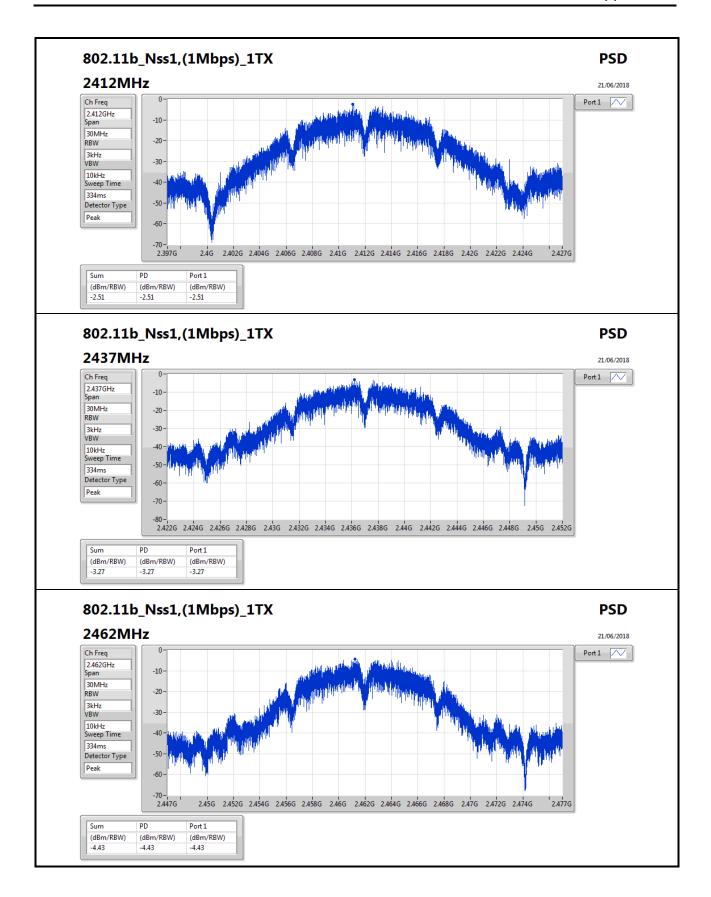
Result

Mode	Result	DG	Port 1	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	-2.51	-2.51	8.00
2437MHz_TnomVnom	Pass	0.69	-3.27	-3.27	8.00
2462MHz_TnomVnom	Pass	0.69	-4.43	-4.43	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	-9.44	-9.44	8.00
2437MHz_TnomVnom	Pass	0.69	-7.39	-7.39	8.00
2462MHz_TnomVnom	Pass	0.69	-9.81	-9.81	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.94	-9.73	-9.73	8.00
2437MHz_TnomVnom	Pass	0.69	-6.72	-6.72	8.00
2462MHz_TnomVnom	Pass	0.69	-9.77	-9.77	8.00

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;

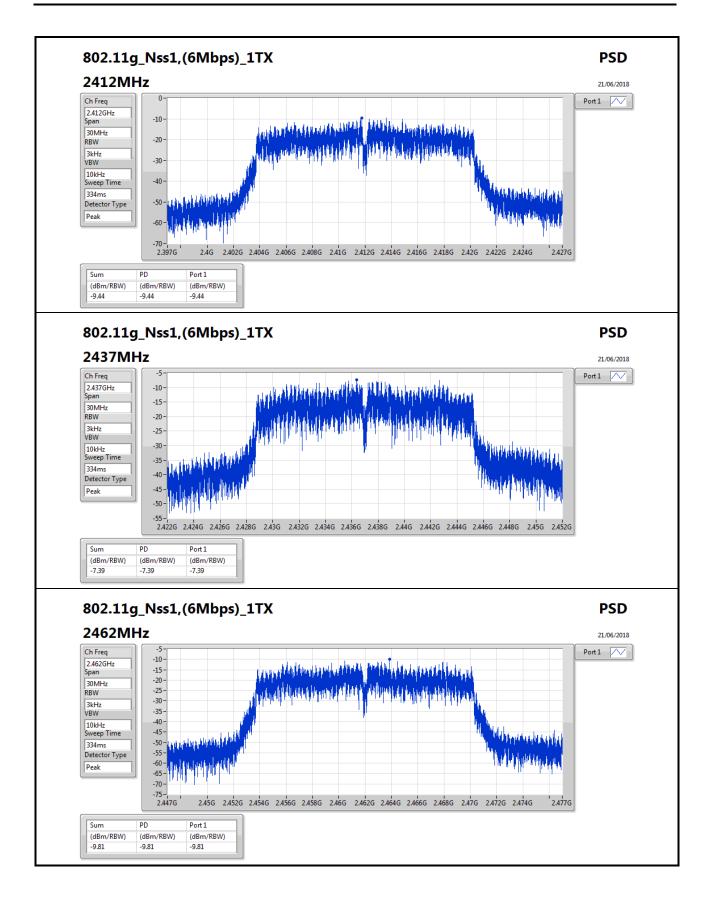
Appendix D





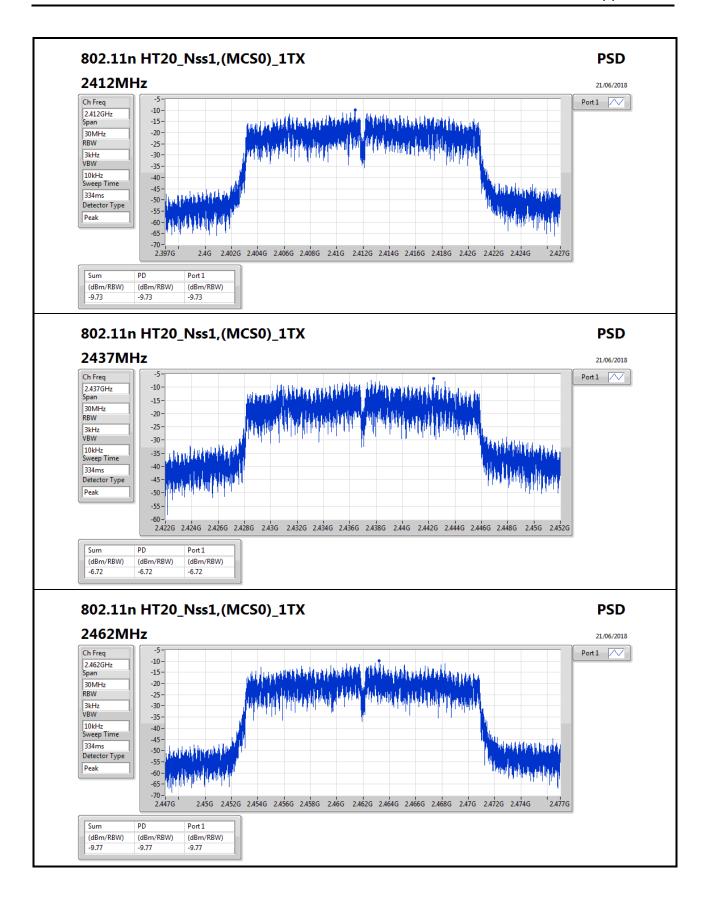
Appendix D





Appendix D







CSE Non-restricted Band Result

Appendix E

Summary

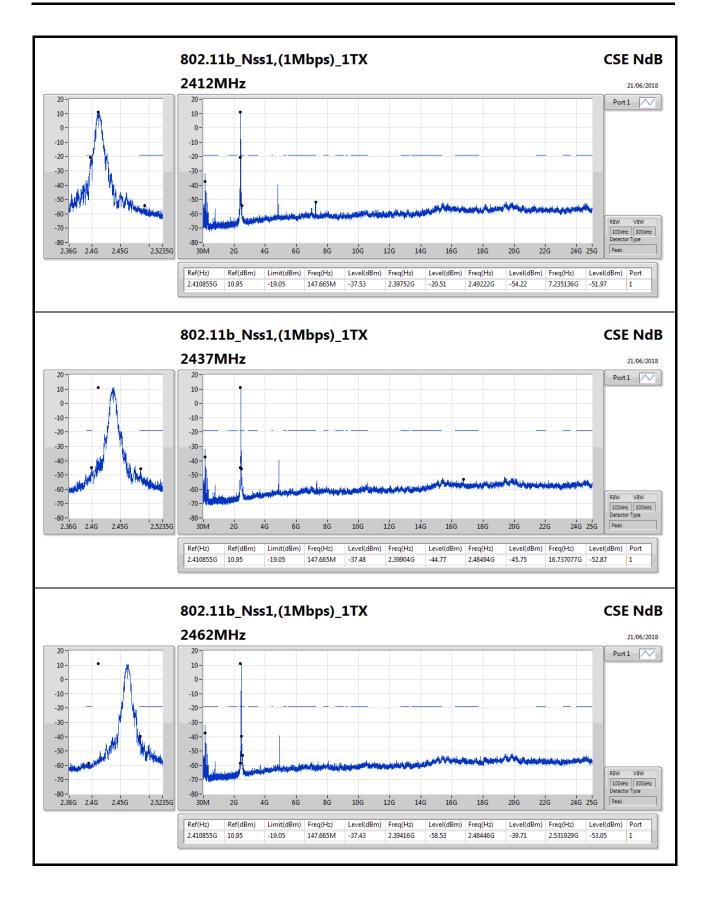
Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.410855G	10.95	-19.05	147.665M	-37.53	2.39752G	-20.51	2.49222G	-54.22	7.235136G	-51.97	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.438243G	8.93	-21.07	147.665M	-37.61	2.3992G	-25.19	2.48646G	-54.58	24.730282G	-52.25	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.439579G	6.80	-23.20	147.665M	-37.66	2.39952G	-27.10	2.49102G	-54.77	16.694933G	-53.03	1

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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.410855G	10.95	-19.05	147.665M	-37.53	2.39752G	-20.51	2.49222G	-54.22	7.235136G	-51.97	1
2437MHz_TnomVnom	Pass	2.410855G	10.95	-19.05	147.665M	-37.48	2.39904G	-44.77	2.48494G	-45.75	16.737077G	-52.87	1
2462MHz_TnomVnom	Pass	2.410855G	10.95	-19.05	147.665M	-37.43	2.39416G	-58.53	2.48446G	-39.71	2.531929G	-53.05	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.438243G	8.93	-21.07	147.665M	-37.61	2.3992G	-25.19	2.48646G	-54.58	24.730282G	-52.25	1
2437MHz_TnomVnom	Pass	2.438243G	8.93	-21.07	147.665M	-37.75	2.39984G	-39.94	2.48414G	-41.57	24.522374G	-52.87	1
2462MHz_TnomVnom	Pass	2.438243G	8.93	-21.07	147.665M	-37.68	2.39768G	-55.26	2.48382G	-35.83	15.321057G	-52.50	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.439579G	6.80	-23.20	147.665M	-37.66	2.39952G	-27.10	2.49102G	-54.77	16.694933G	-53.03	1
2437MHz_TnomVnom	Pass	2.439579G	6.80	-23.20	147.665M	-37.67	2.39888G	-40.01	2.48638G	-41.95	15.11034G	-52.40	1
2462MHz_TnomVnom	Pass	2.439579G	6.80	-23.20	147.665M	-37.59	2.39992G	-55.64	2.48494G	-34.91	24.09813G	-53.43	1

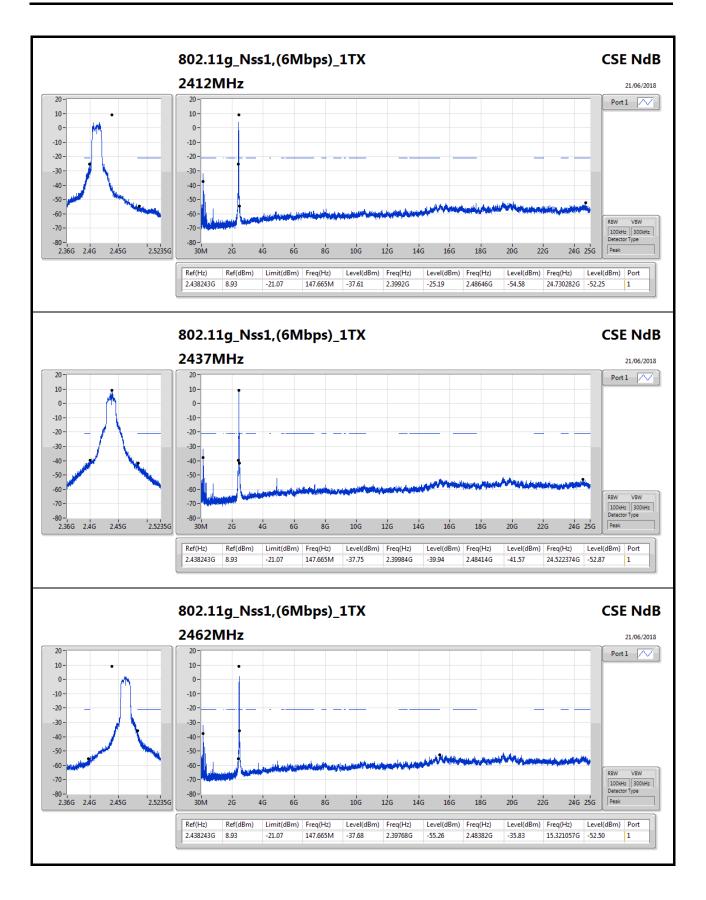
SPORTON INTERNATIONAL INC. Page No. : E1 of E4





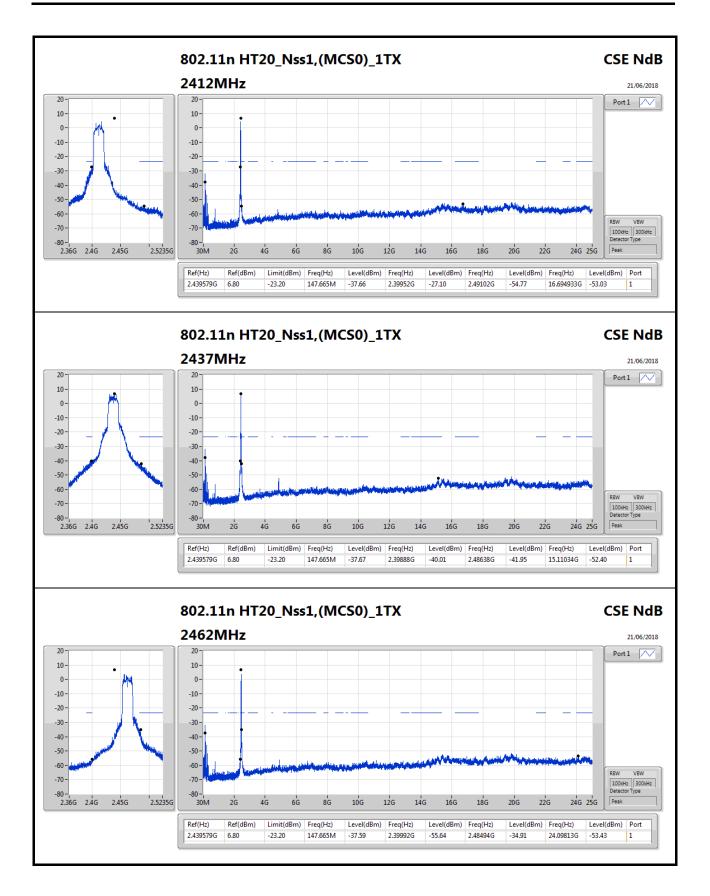
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SPORTON INTERNATIONAL INC. Page No. : E4 of E4



RSE TX below 1GHz Result_9k~30M

Appendix F.1

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	1	-	T.	-	-	1	-	1	-	-	ı	-
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	891.36M	39.91	46.00	-6.09	1.53	3	Horizontal	0	1.00	-

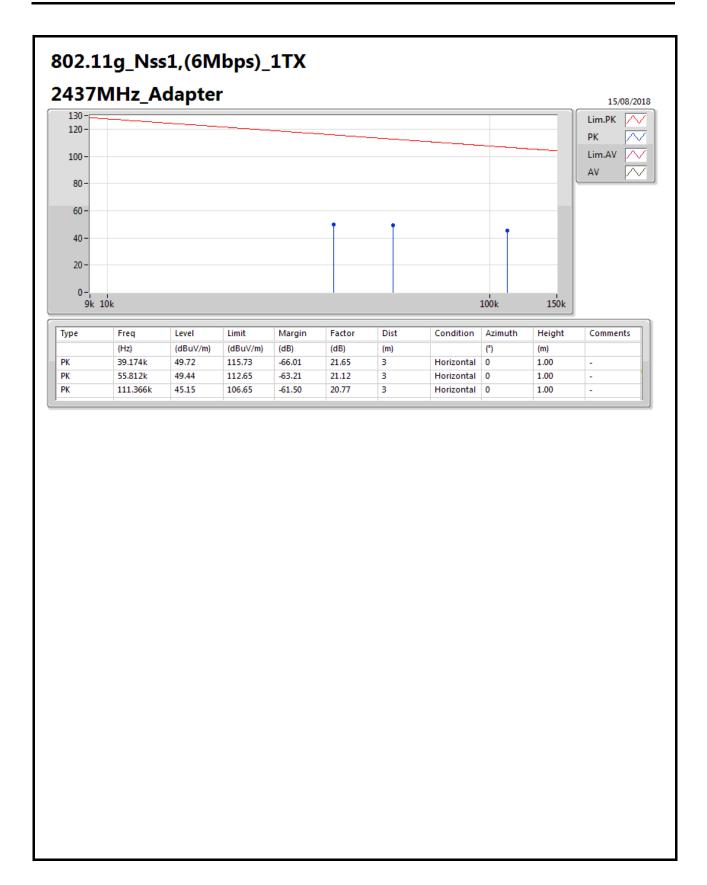


RSE TX below 1GHz Result_9k~30M

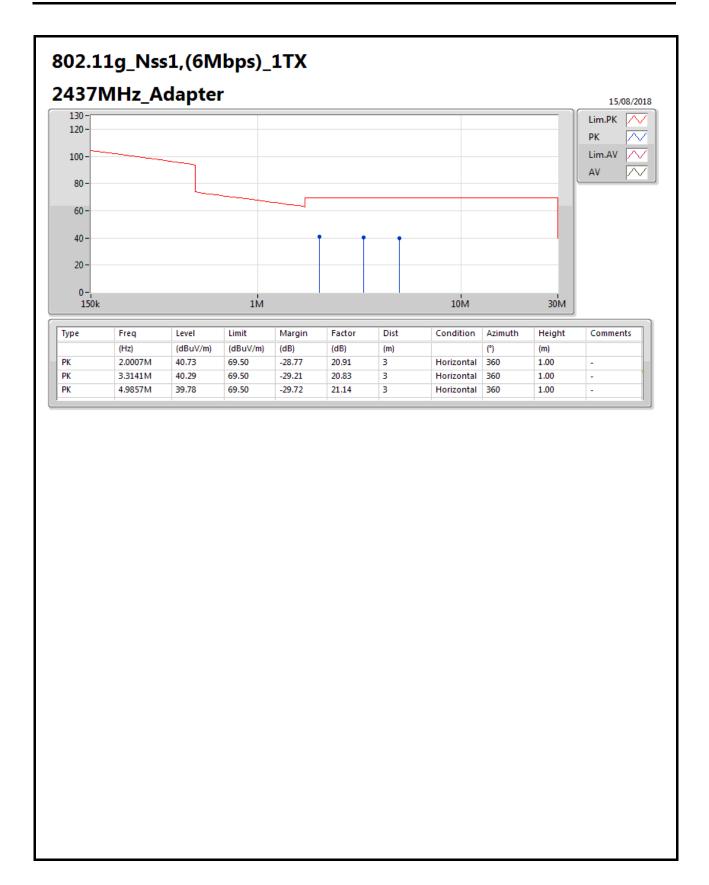
Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	39.174k	49.72	115.73	-66.01	21.65	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	55.812k	49.44	112.65	-63.21	21.12	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	111.366k	45.15	106.65	-61.50	20.77	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	2.0007M	40.73	69.50	-28.77	20.91	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	3.3141M	40.29	69.50	-29.21	20.83	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	4.9857M	39.78	69.50	-29.72	21.14	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	66.86M	29.06	40.00	-10.94	-13.89	3	Vertical	360	1.00	-
2437MHz	Pass	PK	99.84M	32.70	43.50	-10.80	-9.45	3	Vertical	360	1.00	-
2437MHz	Pass	PK	270.56M	39.28	46.00	-6.72	-6.56	3	Vertical	360	1.00	-
2437MHz	Pass	PK	650.8M	32.87	46.00	-13.13	-1.12	3	Vertical	360	1.00	-
2437MHz	Pass	PK	749.74M	34.89	46.00	-11.11	0.06	3	Vertical	360	1.00	-
2437MHz	Pass	PK	850.62M	33.45	46.00	-12.55	1.11	3	Vertical	360	1.00	-
2437MHz	Pass	PK	31.94M	26.61	40.00	-13.39	-3.42	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	119.24M	28.27	43.50	-15.23	-8.04	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	749.74M	39.68	46.00	-6.32	0.06	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	850.62M	39.25	46.00	-6.75	1.11	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	891.36M	39.91	46.00	-6.09	1.53	3	Horizontal	0	1.00	-
2437MHz	Pass	QP	280.26M	36.29	46.00	-9.71	-6.54	3	Horizontal	185	1.00	-

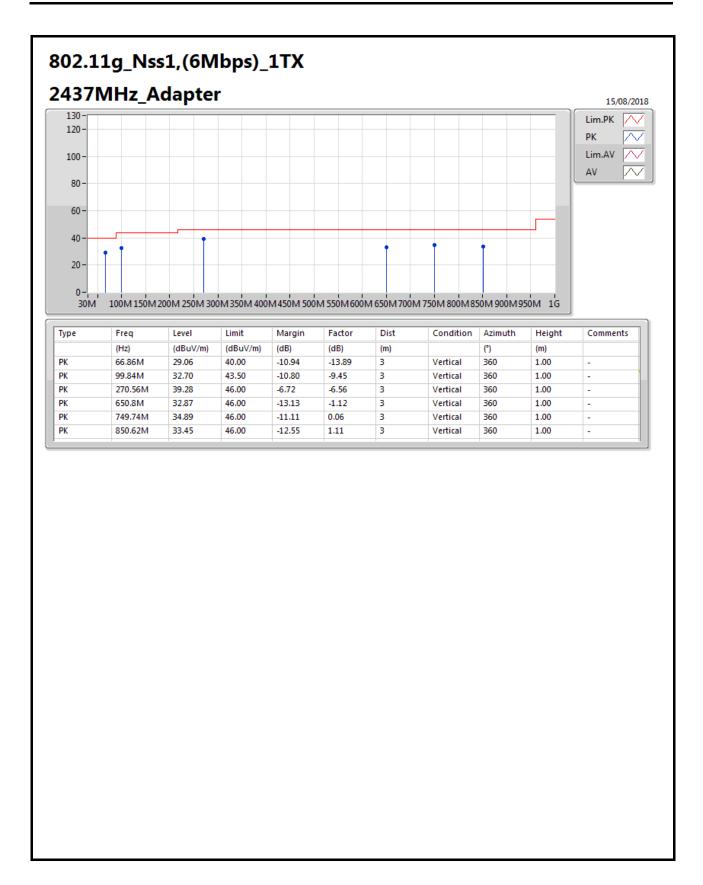




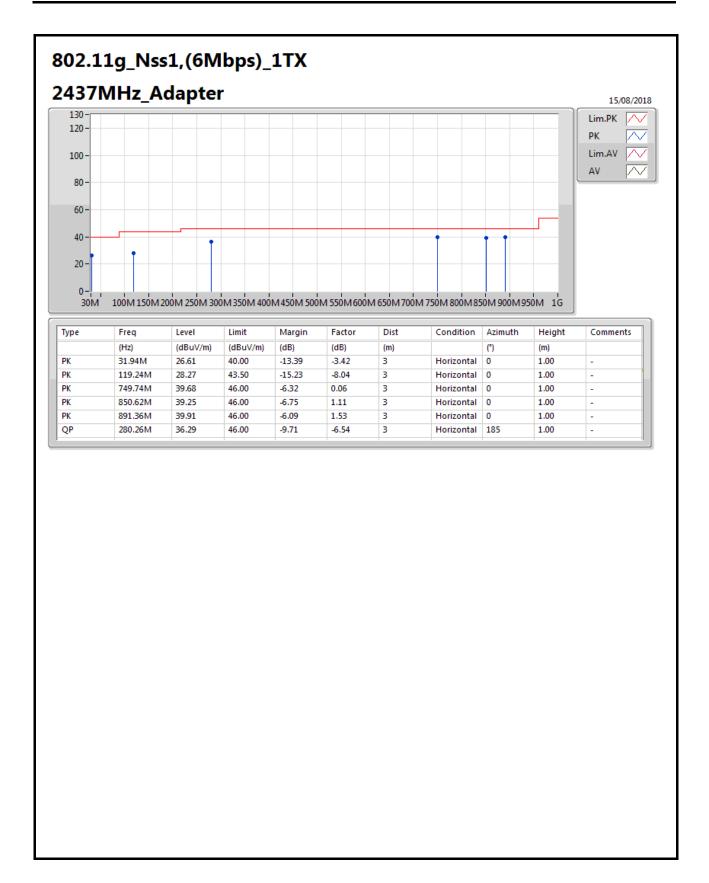














RSE TX below 1GHz Result_30M~1G

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	1	-	T.	-	-	1	-	1	-	-	1	-
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	891.36M	39.91	46.00	-6.09	1.53	3	Horizontal	0	1.00	-



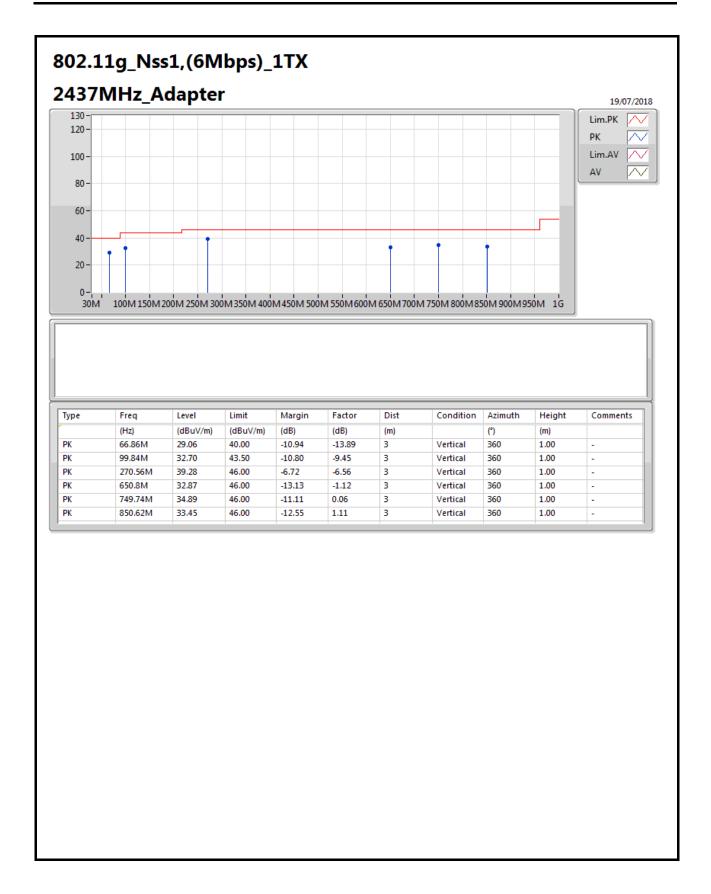


RSE TX below 1GHz Result_30M~1G

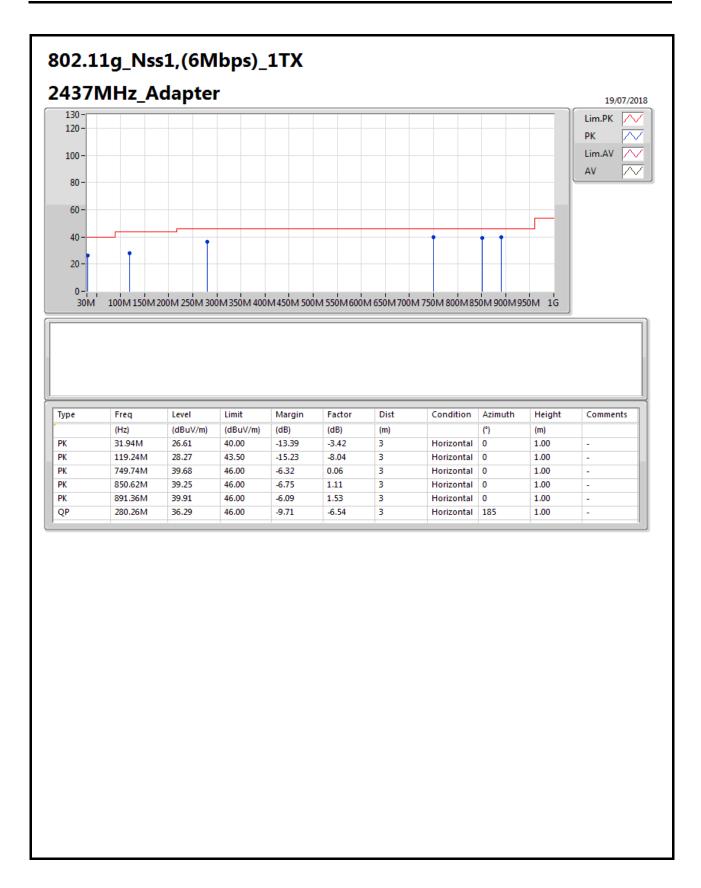
Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	66.86M	29.06	40.00	-10.94	-13.89	3	Vertical	360	1.00	-
2437MHz	Pass	PK	99.84M	32.70	43.50	-10.80	-9.45	3	Vertical	360	1.00	-
2437MHz	Pass	PK	270.56M	39.28	46.00	-6.72	-6.56	3	Vertical	360	1.00	-
2437MHz	Pass	PK	650.8M	32.87	46.00	-13.13	-1.12	3	Vertical	360	1.00	-
2437MHz	Pass	PK	749.74M	34.89	46.00	-11.11	0.06	3	Vertical	360	1.00	-
2437MHz	Pass	PK	850.62M	33.45	46.00	-12.55	1.11	3	Vertical	360	1.00	-
2437MHz	Pass	PK	31.94M	26.61	40.00	-13.39	-3.42	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	119.24M	28.27	43.50	-15.23	-8.04	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	749.74M	39.68	46.00	-6.32	0.06	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	850.62M	39.25	46.00	-6.75	1.11	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	891.36M	39.91	46.00	-6.09	1.53	3	Horizontal	0	1.00	-
2437MHz	Pass	QP	280.26M	36.29	46.00	-9.71	-6.54	3	Horizontal	185	1.00	-











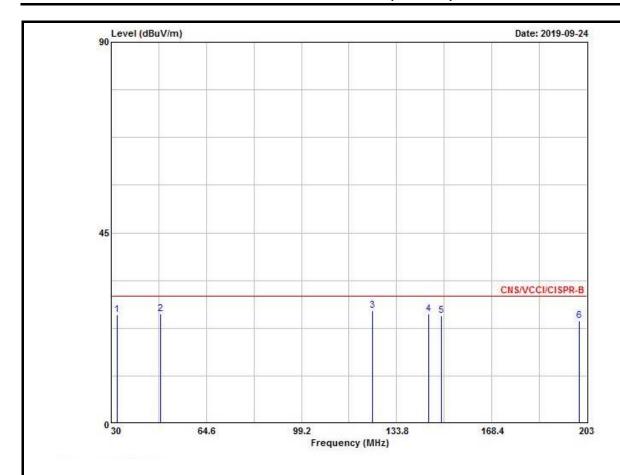
RSE TX below 1GHz Result_30M~1G (Mode 2)

Appendix F.3

Summary

Mode	Туре	Freq	Level	Limit	Margin	Factor	Condition	Azimuth	Height
		(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)		(°)	(m)
Mode 2	QK	575M	33.83	37.00	-3.17	-27.65	Horizontal	189	252

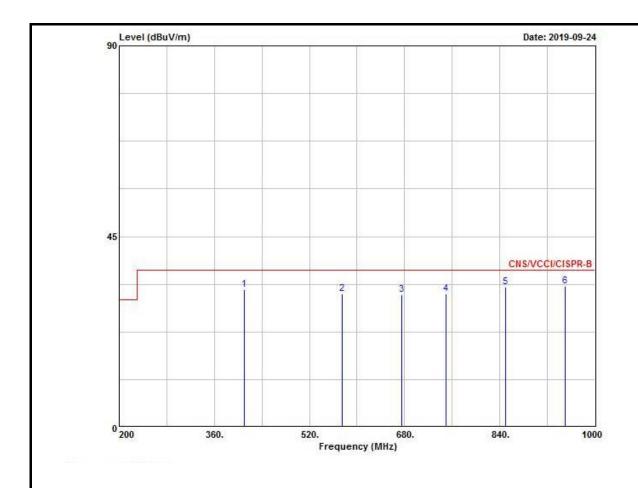




		1927031301	1 20000000	Over				100000000000000000000000000000000000000	Antenna	Ant	**************************************	
		Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Pos	Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m	cm	deg	
1	0	32.200	25.64	-4.36	30.00	29.76	0.70	27.00	22.18			Peak
2	0	47.800	25.81	-4.19	30.00	37.77	0.87	26.98	14.15			QP
3	0	125.000	26.65	-3.35	30.00	34.66	1.34	26.71	17.36	100	61	QP
4	0	145.380	25.91	-4.09	30.00	35.06	1.47	26.62	16.00			Peak
5	0	150.060	25.53	-4.47	30.00	35.01	1.52	26.61	15.61			Peak
6	0	200.060	24.21	-5.79	30.00	34.49	1.71	26.39	14.40			Peak

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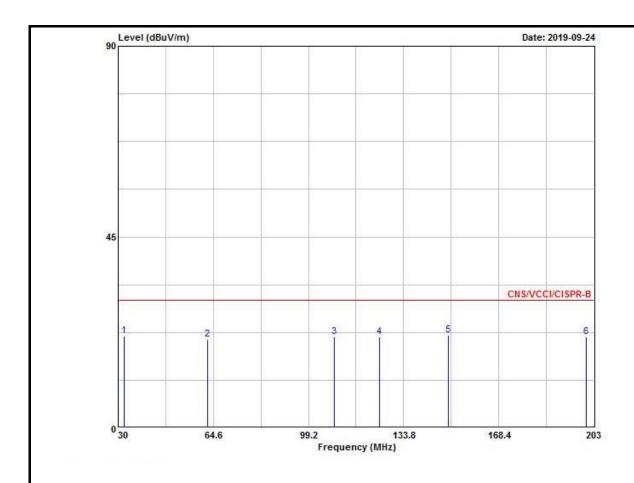




				Over	Limit	Read	Cable	Preamp	Antenna	Ant	Table	
		Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Pos	Pos	Remark
	-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m	cm	deg	
1	0	410.400	32.51	-4.49	37.00	35.46	2.70	27.08	21.43			Peak
2	0	575.000	31.38	-5.62	37.00	32.10	3.26	27.65	23.67			Peak
3	0	675.000	31.19	-5.81	37.00	31.40	3.45	27.66	24.00			Peak
4	0	750.000	31.40	-5.60	37.00	30.80	3.39	27.58	24.79			QP
5	0	850.000	33.04	-3.96	37.00	30.90	4.07	27.41	25.48			QP
6	0	950.000	33.23	-3.77	37.00	30.17	4.14	27.20	26.12			QP

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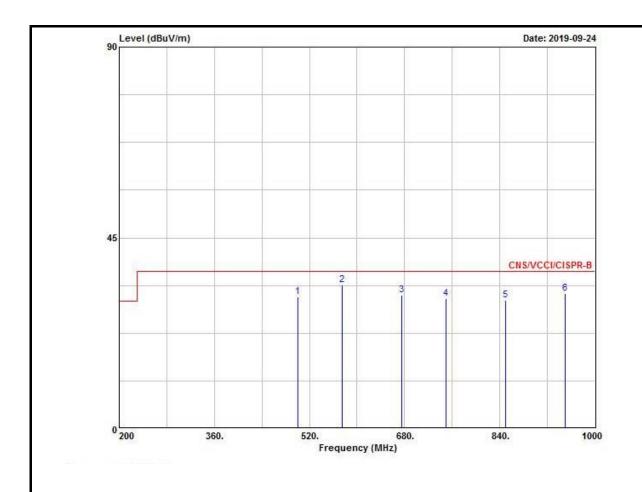




		Over	Limit	Read	Cable	Preamp	Antenna	Ant	Table	
Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Pos	Pos	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m	cm	deg	-
32.030	21.63	-8.37	30.00	25.75	0.70	27.00	22.18			Peak
62.570	20.92	-9.08	30.00	35.42	0.98	26.94	11.46			Peak
108.720	21.51	-8.49	30.00	30.10	1.23	26.78	16.96			Peak
125.000	21.40	-8.60	30.00	29.41	1.34	26.71	17.36			Peak
150.060	21.91	-8.09	30.00	31.39	1.52	26.61	15.61			Peak
200.060	21.44	-8.56	30.00	31.72	1.71	26.39	14.40			Peak
	MHz 32.030 62.570 108.720 125.000 150.060	MHz dBuV/m 32.030 21.63 62.570 20.92 108.720 21.51 125.000 21.40 150.060 21.91	MHz dBuV/m dB 32.030 21.63 -8.37 62.570 20.92 -9.08 108.720 21.51 -8.49 125.000 21.40 -8.60 150.060 21.91 -8.09	Freq Level Limit Line MHz dBuV/m dB dBuV/m 32.030 21.63 -8.37 30.00 62.570 20.92 -9.08 30.00 108.720 21.51 -8.49 30.00 125.000 21.40 -8.60 30.00 150.060 21.91 -8.09 30.00	Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 32.030 21.63 -8.37 30.00 25.75 62.570 20.92 -9.08 30.00 35.42 108.720 21.51 -8.49 30.00 30.10 125.000 21.40 -8.60 30.00 29.41 150.060 21.91 -8.09 30.00 31.39	Freq Level Limit Line Level Loss MHz dBuV/m dB dBuV/m dBuV dB 32.030 21.63 -8.37 30.00 25.75 0.70 62.570 20.92 -9.08 30.00 35.42 0.98 108.720 21.51 -8.49 30.00 30.10 1.23 125.000 21.40 -8.60 30.00 29.41 1.34 150.060 21.91 -8.09 30.00 31.39 1.52	Freq Level Limit Line Level Loss Factor MHz dBuV/m dB dBuV/m dBuV dB dB 32.030 21.63 -8.37 30.00 25.75 0.70 27.00 62.570 20.92 -9.08 30.00 35.42 0.98 26.94 108.720 21.51 -8.49 30.00 30.10 1.23 26.78 125.000 21.40 -8.60 30.00 29.41 1.34 26.71 150.060 21.91 -8.09 30.00 31.39 1.52 26.61	Freq Level Limit Line Level Loss Factor Factor MHz dBuV/m dB dBuV/m dB dB dB/m 32.030 21.63 -8.37 30.00 25.75 0.70 27.00 22.18 62.570 20.92 -9.08 30.00 35.42 0.98 26.94 11.46 108.720 21.51 -8.49 30.00 30.10 1.23 26.78 16.96 125.000 21.40 -8.60 30.00 29.41 1.34 26.71 17.36 150.060 21.91 -8.09 30.00 31.39 1.52 26.61 15.61	Freq Level Limit Line Level Loss Factor Factor Pos MHz dBuV/m dB dBuV/m dB dB dB/m cm 32.030 21.63 -8.37 30.00 25.75 0.70 27.00 22.18 62.570 20.92 -9.08 30.00 35.42 0.98 26.94 11.46 108.720 21.51 -8.49 30.00 30.10 1.23 26.78 16.96 125.000 21.40 -8.60 30.00 29.41 1.34 26.71 17.36 150.060 21.91 -8.09 30.00 31.39 1.52 26.61 15.61	Freq Level Limit Line Level Loss Factor Factor Pos Pos MHz dBuV/m dB dB dB dB/m cm deg 32.030 21.63 -8.37 30.00 25.75 0.70 27.00 22.18 62.570 20.92 -9.08 30.00 35.42 0.98 26.94 11.46 108.720 21.51 -8.49 30.00 30.10 1.23 26.78 16.96 125.000 21.40 -8.60 30.00 29.41 1.34 26.71 17.36 150.060 21.91 -8.09 30.00 31.39 1.52 26.61 15.61

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				Over	Limit	Read	Cable	Preamp	Antenna	Ant	Table	
		Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Pos	Pos	Remark
	-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m	cm	deg	-
1	6	500.000	31.15	-5.85	37.00	33.10	3.02	27.56	22.59			Peak
2	0	575.000	33.83	-3.17	37.00	34.55	3.26	27.65	23.67	189	252	QP
3	0	675.000	31.43	-5.57	37.00	31.64	3.45	27.66	24.00			Peak
4	0	750.000	30.61	-6.39	37.00	30.01	3.39	27.58	24.79			Peak
5	0	850.000	30.22	-6.78	37.00	28.08	4.07	27.41	25.48			Peak
6	0	950.000	31.91	-5.09	37.00	28.85	4.14	27.20	26.12			Peak

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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	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.3864G	52.97	54.00	-1.03	32.26	3	Horizontal	325	3.14	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3898G	53.81	54.00	-0.19	32.28	3	Horizontal	324	3.15	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.483502G	53.85	54.00	-0.15	32.61	3	Horizontal	325	3.01	-



Result

esult	1			1	1		l		1		1	
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Commen
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3862G	52.46	54.00	-1.54	32.26	3	Vertical	53	3.19	-
2412MHz	Pass	AV	2.4112G	103.36	Inf	-Inf	32.35	3	Vertical	53	3.19	-
2412MHz	Pass	PK	2.385G	61.96	74.00	-12.04	32.25	3	Vertical	53	3.19	-
2412MHz	Pass	PK	2.4112G	105.32	Inf	-Inf	32.35	3	Vertical	53	3.19	-
2412MHz	Pass	AV	2.3864G	52.97	54.00	-1.03	32.26	3	Horizontal	325	3.14	-
2412MHz	Pass	AV	2.4112G	103.71	Inf	-Inf	32.35	3	Horizontal	325	3.14	-
2412MHz	Pass	PK	2.3886G	61.68	74.00	-12.32	32.27	3	Horizontal	325	3.14	-
2412MHz	Pass	PK	2.4112G	105.70	Inf	-Inf	32.35	3	Horizontal	325	3.14	-
2412MHz	Pass	AV	4.824G	40.90	54.00	-13.10	3.03	3	Vertical	230	1.48	-
2412MHz	Pass	PK	4.82428G	48.23	74.00	-25.77	3.03	3	Vertical	230	1.48	-
2412MHz	Pass	AV	4.82404G	44.61	54.00	-9.39	3.03	3	Horizontal	0	1.06	-
2412MHz	Pass	PK	4.82404G	50.09	74.00	-23.91	3.03	3	Horizontal	0	1.06	-
2437MHz	Pass	AV	2.3898G	48.64	54.00	-5.36	32.28	3	Vertical	105	1.06	-
2437MHz	Pass	AV	2.4362G	101.20	Inf	-Inf	32.44	3	Vertical	105	1.06	-
2437MHz	Pass	AV	2.4962G	49.11	54.00	-4.89	32.66	3	Vertical	105	1.06	-
2437MHz	Pass	PK	2.3522G	60.11	74.00	-13.89	32.14	3	Vertical	105	1.06	-
2437MHz	Pass	PK	2.4362G	103.17	Inf	-Inf	32.44	3	Vertical	105	1.06	-
2437MHz	Pass	PK	2.4906G	60.64	74.00	-13.36	32.64	3	Vertical	105	1.06	-
2437MHz	Pass	AV	2.3894G	48.63	54.00	-5.37	32.27	3	Horizontal	316	2.72	-
2437MHz	Pass	AV	2.4362G	102.05	Inf	-Inf	32.44	3	Horizontal	316	2.72	-
2437MHz	Pass	AV	2.4846G	49.63	54.00	-4.37	32.61	3	Horizontal	316	2.72	-
2437MHz	Pass	PK	2.339G	59.62	74.00	-14.38	32.09	3	Horizontal	316	2.72	-
2437MHz	Pass	PK	2.4362G	103.99	Inf	-Inf	32.44	3	Horizontal	316	2.72	-
2437MHz	Pass	PK	2.4994G	60.81	74.00	-13.19	32.67	3	Horizontal	316	2.72	_
2437MHz	Pass	AV	4.87406G	40.57	54.00	-13.43	3.14	3	Vertical	111	2.17	_
2437MHz	Pass	PK	4.87396G	47.62	74.00	-26.38	3.14	3	Vertical	111	2.17	_
2437MHz	Pass	AV	4.87396G	44.56	54.00	-9.44	3.14	3	Horizontal	360	1.11	_
2437MHz	Pass	PK	4.87424G	49.75	74.00	-24.25	3.14	3	Horizontal	360	1.11	_
802.11g_Nss1,(6Mbps)_1TX	- 400	-		-	-	-	-	-	-	-	-	
2412MHz	Pass	AV	2.389998G	53.66	54.00	-0.34	32.28	3	Vertical	51	3.19	_
2412MHz	Pass	AV	2.4112G	97.10	Inf	-Inf	32.35	3	Vertical	51	3.19	
2412MHz	Pass	PK	2.3898G	70.93	74.00	-3.07	32.28	3	Vertical	51	3.19	_
2412MHz	Pass	PK	2.4112G	105.38	Inf	-J.or	32.35	3	Vertical	51	3.19	_
2412MHz	Pass	AV	2.3898G	53.81	54.00	-0.19	32.28	3	Horizontal	324	3.15	
2412MHz	Pass	AV	2.4112G	96.46	Inf	-0.19 -Inf	32.35	3	Horizontal	324	3.15	-
2412MHz		PK	2.4112G 2.3898G	70.03	74.00	-3.97		3	Horizontal	324		_
	Pass						32.28				3.15	_
2412MHz	Pass	PK	2.4116G	106.05	Inf	-Inf	32.35	3	Horizontal	324	3.15	_
2412MHz	Pass	AV	4.82394G	34.43	54.00	-19.57	3.03	3	Vertical	307	1.67	-
2412MHz	Pass	PK	4.81542G	46.44	74.00	-27.56	3.01	3	Vertical	307	1.67	-
2412MHz	Pass	AV	4.82394G	36.73	54.00	-17.27	3.03	3	Horizontal	66	1.09	-
2412MHz	Pass	PK AV	4.83216G	46.80	74.00	-27.20	3.05	3	Horizontal	66	1.09	-
2437MHz	Pass	AV	2.3894G	49.89	54.00	-4.11	32.27	3	Vertical	104	1.05	-
2437MHz	Pass	AV	2.4362G	96.97	Inf	-Inf	32.44	3	Vertical	104	1.05	-
2437MHz	Pass	AV	2.4994G	49.68	54.00	-4.32	32.67	3	Vertical	104	1.05	-
2437MHz	Pass	PK	2.3878G	60.82	74.00	-13.18	32.27	3	Vertical	104	1.05	-
2437MHz	Pass	PK	2.4366G	105.66	Inf	-Inf	32.44	3	Vertical	104	1.05	-
2437MHz	Pass	PK	2.4846G	60.83	74.00	-13.17	32.61	3	Vertical	104	1.05	-



Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2437MHz	Pass	AV	2.3898G	49.67	54.00	-4.33	32.28	3	Horizontal	317	2.73	-
2437MHz	Pass	AV	2.4362G	98.05	Inf	-Inf	32.44	3	Horizontal	317	2.73	-
2437MHz	Pass	AV	2.483502G	50.41	54.00	-3.59	32.61	3	Horizontal	317	2.73	-
2437MHz	Pass	PK	2.3894G	60.45	74.00	-13.55	32.27	3	Horizontal	317	2.73	-
2437MHz	Pass	PK	2.437G	106.47	Inf	-Inf	32.44	3	Horizontal	317	2.73	-
2437MHz	Pass	PK	2.485G	61.65	74.00	-12.35	32.61	3	Horizontal	317	2.73	-
2437MHz	Pass	AV	4.87408G	34.68	54.00	-19.32	3.14	3	Vertical	353	1.50	-
2437MHz	Pass	PK	4.87384G	46.15	74.00	-27.85	3.14	3	Vertical	353	1.50	-
2437MHz	Pass	AV	4.87408G	36.95	54.00	-17.05	3.14	3	Horizontal	62	1.03	-
2437MHz	Pass	PK	4.88056G	47.17	74.00	-26.83	3.16	3	Horizontal	62	1.03	-
2462MHz	Pass	AV	2.4612G	93.62	Inf	-Inf	32.53	3	Vertical	69	1.01	-
2462MHz	Pass	AV	2.483502G	51.35	54.00	-2.65	32.61	3	Vertical	69	1.01	-
2462MHz	Pass	PK	2.462G	103.77	Inf	-Inf	32.53	3	Vertical	69	1.01	-
2462MHz	Pass	PK	2.483502G	65.42	74.00	-8.58	32.61	3	Vertical	69	1.01	-
2462MHz	Pass	AV	2.4612G	95.70	Inf	-Inf	32.53	3	Horizontal	327	3.03	-
2462MHz	Pass	AV	2.483502G	53.51	54.00	-0.49	32.61	3	Horizontal	327	3.03	-
2462MHz	Pass	PK	2.4606G	104.06	Inf	-Inf	32.53	3	Horizontal	327	3.03	_
2462MHz	Pass	PK	2.4836G	69.76	74.00	-4.24	32.61	3	Horizontal	327	3.03	_
2462MHz	Pass	AV	4.93588G	34.64	54.00	-19.36	3.28	3	Vertical	181	1.37	_
2462MHz	Pass	PK	4.92688G	45.90	74.00	-28.10	3.26	3	Vertical	181	1.37	_
2462MHz	Pass	AV	4.92406G	37.58	54.00	-16.42	3.25	3	Horizontal	59	1.07	_
2462MHz	Pass	PK	4.93696G	46.93	74.00	-27.07	3.28	3	Horizontal	59	1.07	_
2417MHz	Pass	AV	2.3898G	52.35	54.00	-1.65	32.28	3	Vertical	49	3.19	-
2417MHz	Pass	AV	2.4162G	97.86	Inf	-1.03 -Inf	32.20	3	Vertical	49	3.19	-
2417MHz	Pass	PK	2.4102G 2.3892G	70.12	74.00	-3.88	32.27	3	Vertical	49	3.19	
2417MHz	Pass	PK	2.4168G	106.71	Inf	-Jnf	32.37	3	Vertical	49	3.19	
2417MHz	Pass	AV	2.4100G 2.3896G	51.41	54.00	-2.59	32.28	3	Horizontal	320	1.19	-
2417MHz	Pass	AV	2.418G	97.49	Inf	-Inf	32.37	3	Horizontal	320	1.19	-
2417MHz	Pass	PK	2.389998G	68.60	74.00	-5.40	32.28	3	Horizontal	320	1.19	_
2417MHz	Pass	PK	2.417G	106.76	Inf	-J.40	32.37	3	Horizontal	320	1.19	
2457MHz	Pass	AV	2.417G 2.458G	96.32	Inf	-Inf	32.52	3	Vertical	73	1.01	-
	_							_				-
2457MHz	Pass	AV	2.483502G	51.57	54.00	-2.43	32.61	3	Vertical	73	1.01	-
2457MHz	Pass	PK PK	2.4572G	104.32	Inf	-Inf	32.52	3	Vertical	73	1.01	-
2457MHz	Pass		2.4856G	65.60	74.00	-8.40	32.62	3	Vertical	73	1.01	-
2457MHz 2457MHz	Pass	AV AV	2.4562G 2.483502G	97.19 53.33	Inf 54.00	-Inf -0.67	32.51 32.61	3	Horizontal	325 325	1.50	-
2457MHz	Pass	PK	2.483502G 2.457G	106.64				3	Horizontal	325	1.50	-
	Pass				Inf 74.00	-Inf	32.52		Horizontal		1.50	-
2457MHz	Pass	PK	2.485G	70.42	74.00	-3.58	32.61	3	Horizontal	325	1.50	-
802.11n HT20_Nss1,(MCS0)_1TX	- Page	- ^\	- 2 3808G		- 54.00	- 0.65	32.28	- 2	- Vortical	- 52	3 10	-
2412MHz	Pass	AV	2.3898G	53.35	54.00	-0.65	32.28	3	Vertical	52	3.19	-
2412MHz	Pass	AV	2.4112G	95.80	Inf	-Inf	32.35	3	Vertical	52	3.19	-
2412MHz	Pass	PK	2.3892G	70.17	74.00	-3.83	32.27	3	Vertical	52	3.19	-
2412MHz	Pass	PK	2.4108G	104.07	Inf	-Inf	32.35	3	Vertical	52	3.19	-
2412MHz	Pass	AV	2.3898G	53.51	54.00	-0.49	32.28	3	Horizontal	179	3.17	-
2412MHz	Pass	AV	2.4112G	94.30	Inf	-Inf	32.35	3	Horizontal	179	3.17	-
2412MHz	Pass	PK	2.389998G	70.31	74.00	-3.69	32.28	3	Horizontal	179	3.17	-
2412MHz	Pass	PK	2.4126G	102.85	Inf	-Inf	32.36	3	Horizontal	179	3.17	-
2412MHz	Pass	AV	4.82388G	34.43	54.00	-19.57	3.03	3	Vertical	224	1.78	-
2412MHz	Pass	PK	4.82394G	46.21	74.00	-27.79	3.03	3	Vertical	224	1.78	-



Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2412MHz	Pass	AV	4.824G	36.51	54.00	-17.49	3.03	3	Horizontal	65	1.04	-
2412MHz	Pass	PK	4.82994G	46.70	74.00	-27.30	3.05	3	Horizontal	65	1.04	-
2437MHz	Pass	AV	2.3898G	49.43	54.00	-4.57	32.28	3	Vertical	104	1.07	-
2437MHz	Pass	AV	2.4362G	96.56	Inf	-Inf	32.44	3	Vertical	104	1.07	-
2437MHz	Pass	AV	2.483502G	49.90	54.00	-4.10	32.61	3	Vertical	104	1.07	-
2437MHz	Pass	PK	2.3874G	60.62	74.00	-13.38	32.26	3	Vertical	104	1.07	-
2437MHz	Pass	PK	2.437G	105.11	Inf	-Inf	32.44	3	Vertical	104	1.07	-
2437MHz	Pass	PK	2.4906G	60.71	74.00	-13.29	32.64	3	Vertical	104	1.07	-
2437MHz	Pass	AV	2.3894G	49.66	54.00	-4.34	32.27	3	Horizontal	317	2.74	-
2437MHz	Pass	AV	2.4378G	97.58	Inf	-Inf	32.45	3	Horizontal	317	2.74	-
2437MHz	Pass	AV	2.483502G	50.16	54.00	-3.84	32.61	3	Horizontal	317	2.74	-
2437MHz	Pass	PK	2.3854G	60.65	74.00	-13.35	32.25	3	Horizontal	317	2.74	-
2437MHz	Pass	PK	2.4374G	105.84	Inf	-Inf	32.44	3	Horizontal	317	2.74	-
2437MHz	Pass	PK	2.4886G	60.92	74.00	-13.08	32.63	3	Horizontal	317	2.74	-
2437MHz	Pass	AV	4.86664G	33.92	54.00	-20.08	3.13	3	Vertical	254	1.56	-
2437MHz	Pass	PK	4.87836G	45.67	74.00	-28.33	3.15	3	Vertical	254	1.56	-
2437MHz	Pass	AV	4.87396G	36.75	54.00	-17.25	3.14	3	Horizontal	62	1.01	-
2437MHz	Pass	PK	4.87392G	46.88	74.00	-27.12	3.14	3	Horizontal	62	1.01	_
2462MHz	Pass	AV	2.4628G	93.45	Inf	-Inf	32.54	3	Vertical	54	3.06	_
2462MHz	Pass	AV	2.483502G	53.15	54.00	-0.85	32.61	3	Vertical	54	3.06	_
2462MHz	Pass	PK	2.4622G	101.77	Inf	-Inf	32.53	3	Vertical	54	3.06	_
2462MHz	Pass	PK	2.483502G	72.49	74.00	-1.51	32.61	3	Vertical	54	3.06	_
2462MHz	Pass	AV	2.4612G	95.24	Inf	-Inf	32.53	3	Horizontal	325	3.01	_
2462MHz	Pass	AV	2.483502G	53.85	54.00	-0.15	32.61	3	Horizontal	325	3.01	
2462MHz	Pass	PK	2.462G	103.93	Inf	-0.13	32.53	3	Horizontal	325	3.01	
2462MHz	Pass	PK	2.4842G	69.81	74.00	-4.19	32.61	3	Horizontal	325	3.01	_
2462MHz	Pass	AV	4.93186G	34.65	54.00	-19.35	3.27	3	Vertical	135	1.33	_
2462MHz	Pass	PK	4.92286G	45.86	74.00	-28.14	3.25	3	Vertical	135	1.33	-
2462MHz	Pass	AV	4.924G	36.80	54.00	-17.20	3.25	3	Horizontal	58	1.06	_
2462MHz	Pass	PK	4.93114G	46.77	74.00	-27.23	3.27	3	Horizontal	58	1.06	
2417MHz	Pass	AV	2.389998G	53.33	54.00	-0.67	32.27	3	Vertical	62	1.03	-
	_							3	Vertical			-
2417MHz 2417MHz	Pass Pass	AV PK	2.4162G 2.3884G	97.89 68.72	74.00	-Inf -5.28	32.37 32.27	3	Vertical	51	3.19	-
2417MHz 2417MHz	Pass Pass	PK AV	2.4156G 2.389998G	106.59 52.17	Inf 54.00	-Inf -1.83	32.37 32.28	3	Vertical Horizontal	51 326	3.19 2.77	-
2417MHz 2417MHz	Pass	AV	2.389998G 2.4162G	97.51	54.00 Inf	-1.83 -Inf	32.28	3	Horizontal	326	2.77	-
2417MHz	Pass	PK	2.4162G 2.389998G	68.36	74.00	-5.64	32.37	3	Horizontal	326	2.77	-
2417MHz		PK	2.369996G 2.4148G	106.75	74.00 Inf	-5.04 -Inf	32.26	3		326	2.77	-
2417MHz	Pass		2.4146G 2.3898G					3	Horizontal			-
	Pass	AV AV		51.41	54.00	-2.59	32.28		Vertical	66	1.19	-
2422MHz	Pass	AV	2.4228G	97.75	Inf	-Inf	32.39	3	Vertical	66	1.19	-
2422MHz	Pass	PK	2.3878G	64.37	74.00	-9.63	32.27	3	Vertical	66	1.19	-
2422MHz	Pass	PK AV	2.422G	106.39	Inf	-Inf	32.39	3	Vertical	66	1.19	-
2422MHz	Pass	AV	2.3894G	51.40	54.00	-2.60	32.27	3	Horizontal	336	3.16	-
2422MHz	Pass	AV	2.4214G	98.04	Inf	-Inf	32.39	3	Horizontal	336	3.16	-
2422MHz	Pass	PK	2.3888G	65.22	74.00	-8.78	32.27	3	Horizontal	336	3.16	-
2422MHz	Pass	PK	2.4216G	106.57	Inf	-Inf	32.39	3	Horizontal	336	3.16	-
2457MHz	Pass	AV	2.4578G	95.38	Inf	-Inf	32.52	3	Vertical	65	1.00	-
2457MHz	Pass	AV	2.483502G	51.99	54.00	-2.01	32.61	3	Vertical	65	1.00	-
2457MHz	Pass	PK	2.457G	104.32	Inf	-Inf	32.52	3	Vertical	65	1.00	-



Appendix F.4

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2457MHz	Pass	PK	2.4842G	66.78	74.00	-7.22	32.61	3	Vertical	65	1.00	-
2457MHz	Pass	AV	2.456G	96.96	Inf	-Inf	32.51	3	Horizontal	326	1.50	-
2457MHz	Pass	AV	2.483502G	53.68	54.00	-0.32	32.61	3	Horizontal	326	1.50	-
2457MHz	Pass	PK	2.456G	105.19	Inf	-Inf	32.51	3	Horizontal	326	1.50	-
2457MHz	Pass	PK	2.4836G	71.19	74.00	-2.81	32.61	3	Horizontal	326	1.50	-

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