

DFS Verification Test Report

Report No.: FCC_IC_DFS_SL20060401-STR-006 Rev_1.0

Model Number: 0240031075

Series Model: N/A

FCC ID: SSH-SYNK4KRX

Received Date: 06/24/2020

Test Date: 06/24/2020

Issued Date: 09/01/2020

Applicant: Stryker Endoscopy

Address: 5900 Optical Court, San Jose, CA, 95138, USA

Issued By: Bureau Veritas Consumer Products Services, Inc.

Lab Address: 775 Montague Expressway Milpitas, CA, 95035, USA

Test Location: 775 Montague Expressway Milpitas, CA, 95035, USA

FCC Test Site Reg No.: 540430

ISED# / CAB identifier: 4842D



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any government agencies.



Table of Contents

Relea	se Control Record	3				
1	Certificate of Conformity	4				
2	Dynamic Frequency Selection	5				
2.1 2.2	Test Limits and Radar Signal Parameters	6 9				
2.3	EUT Information	9				
2.4	Description of support units	10				
2.5	Test Procedure	.11				
2.1	DFS Measurement System	.11				
2.2	Calibration of DFS Detection Threshold Level	12				
2.6	Deviation from Test Standard	12				
2.7	Test Setup Configuration	13				
2.8	List of Measurements	14				
2.9	Test Results	15				
Apper	Appendix A - Radar Type waveform characteristic 19					
Apper	Appendix B – Information on the Testing Laboratories					



Release Control Record

Issue No.	Description	Date Issued
FCC_IC_DFS_SL20060401-STR-006	Original Release	06/29/2020
FCC_IC_DFS_SL20060401-STR-006 Rev_1.0	Minor Update, model number update	09/01/2020



1 Certificate of Conformity

Product:	SYNK®4K Wireless Receiver	
Brand:	Stryker	
Test Model:	0240031075	
Series Model:	N/A	
Sample Status:	Engineering Sample	
Applicant:	Stryker Endoscopy	
Test Date:	06/24/2020	
Standards:	FCC 15.407	
	RSS 247 Issue 2	
Procedure:	905462 D02 UNII DFS Compliance Procedures New Rules v02	

The above equipment has been tested by **Bureau Veritas Consumer Products Services**, Inc., Milpitas **Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Deon Dai / Test Engineer

Date: 09/01/2020

Approved by :

Date:

09/01/2020

Chen Ge / Engineer Reviewer



2 Dynamic Frequency Selection

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Slave. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables A and B for the applicability of DFS requirements prior to use a channel (Channel Availability Check) and during normal operation (In-Service Monitoring) for each of the operational modes.

Table A: Applicability of DFS requirements prior to use a channel

Boguizement	Operational Mode
Requirement	Master
Interference Detection Threshold	\checkmark
Channel Availability Check Time	\checkmark
Non-Occupancy Period	\checkmark

Table B: Applicability of DFS requirements during normal operation

Boguiromont	Operational Mode
Requirement	Master
Interference Detection Threshold	✓
Channel Closing Transmission Time	\checkmark
Channel Move Time	\checkmark
Non-Occupancy Period	\checkmark



2.1 Test Limits and Radar Signal Parameters

Detection Threshold Values

Table 8: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)	
EIRP ≥ 200 milliwatt	-64 dBm	
EIRP < 200 milliwatt and	60 dBm	
power spectral density < 10 dBm/MHz	-62 dBm	
EIRP < 200 milliwatt that do not meet the	-64 dBm	
power spectral density requirement		

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



Parameters of DFS Test Signals

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials			
0	1	1428	18	See Note 1	See Note 1			
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066µ sec, with a minimum increment of 1µsec, excluding PRI values selected in Test A	Roundup $\begin{cases} \left(\frac{1}{360} \right) \\ \left(\frac{19 \cdot 10^6}{\text{PRL}_{u \text{ sec}}} \right) \end{cases}$	60%	30			
2	1-5	150-230	23-29	60%	30			
3	6-10	200-500	16-18	60%	30			
4	11-20	200-500	12-16	60%	30			
Noto 1: Sh	Aggregate (Radar Types 1-4) 80% 120							

Table 10: Short Pulse Radar Test Waveforms

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



Table 11: Long Pulse Radar Test Waveform							
Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number Of Pulses Per Burst	Number Of Bursts	Minimum Percentage Of Successful Detection	Minimum Number Of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

a) the Channel center frequency

b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth

c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

FL+(0.4*Chirp Width [in MHz])

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

FH-(0.4*Chirp Width [in MHz])

Table 12: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage Of Successful Detection	Minimum Number Of Trials
6	1	333	9	0.333	300	70%	30



2.2 Test instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Keysight Signal Analyzer	N9010A	MY51440112	11/08/2019	11/08/2020
Splitter/Combiner (Mini- Circuit)	ZFSC-2-9G+	S F030000719	N/A	N/A
Splitter/Combiner (Mini- Circuit)	ZFSC-2-9G+	S F030000718	N/A	N/A
Agilent Signal Generator	MXG N5182A	MY47071065	09/28/2019	09/28/2020

2.3 EUT Information

Operating Frequency Bands and Mode of EUT

Operational Mode	Operating Frequency Range		
	5250~5350MHz	5470~5725MHz	
Master	\checkmark	\checkmark	

EUT Software and Firmware Version

No.	Product	Model No.	Software/Firmware Version	
1	N/A	N/A	N/A	

Description of Available Antennas to the EUT

The highest antenna gain is 6.134dBi for band 5250-5350MHz and 7.044dBi for band 5470-5725MHz.



2.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

A Lapton Acer Aspire A315-51 N/A N/A	
	N/A
B	

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.						
2.						

Note: The core(s) is(are) originally attached to the cable(s).



2.5 Test Procedure2.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating system and (2) the Traffic Monitoring system. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

Radiated Setup Configuration of DFS Measurement System



Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

a)	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.	
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	
c)	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.	✓
d)	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.	



2.2 Calibration of DFS Detection Threshold Level

The measured channel is 5300MHz and 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

The radar signal generate system is gererating waveform pattern of radar types. The amplitude of the radar signal generator system is adjusted to yield a level of -64 dBm as measured on the spectrum analyzer. The interference detection threshold level is lower than – 64dBm hence it provides margin to the limit.



2.6 Deviation from Test Standard

No deviation.



2.7 Test Setup Configuration

Master mode

The EUT is a U-NII Device operating in Master mode. The radar test signals are injected into the Master Device.



The UUT is capable of operating as a Master mode. The radar test signals are injected into the Master Device.



2.8 List of Measurements

Clause	Test Parameter	Remarks	Pass/Fail
4.7.7.2	DFS Detection Threshold	Applicable	Pass

NOTE: This UUT is capable of operating as a master (with radar detection).

This is a verification test only and 10 pulses of each types were applied.



2.9 Test Results

Statistical Performance Check

Statistical Performance Check, the steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at Low, Mid and High Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

The Radar Waveform generator sends the individual waveform for each of the radar types 0-6 at -62dbm. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device

TotalWaveformDetections TotalWaveformTrials ×100 = Probability of Detection Radar Waveform calculated by:

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section.



Test Result-5510MHz - 40MHz

Type 1

Trial Id	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	Result
0	1	938	57	53466	Pass
1	1	698	76	53048	Pass
2	1	618	86	53148	Pass
3	1	538	99	53262	Pass
4	1	878	61	53558	Pass
5	1	3066	18	55188	Pass
6	1	638	83	52954	Pass
7	1	918	58	53244	Pass
8	1	838	63	52794	Pass
9	1	858	62	53196	Pass

Test Result-5510MHz - 40MHz

Type 2

Trial Id	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	Result
0	3.2	179	26	4654	Pass
1	1.1	207	23	4761	Pass
2	2.1	230	24	5520	Pass
3	4.8	200	29	5800	Pass
4	3.9	214	28	5992	Pass
5	2.9	222	26	5772	Pass
6	3.2	204	26	5304	Pass
7	2.5	192	25	4800	Pass
8	3.1	164	26	4264	Pass
9	1.2	156	23	3588	Pass



Test Result-5510MHz - 40MHz

Type 3

Trial Id	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	Result
0	8.2	355	17	6035	Pass
1	6.1	487	16	7792	Pass
2	7.1	344	16	5504	Pass
3	9.8	288	18	5184	Pass
4	8.9	230	18	4140	Pass
5	7.9	432	17	7344	Pass
6	8.2	207	17	3519	Pass
7	7.5	443	17	7531	Pass
8	8.1	439	17	7463	Pass
9	6.2	223	16	3568	Pass

Test Result-5510MHz - 40MHz

Type 4

Trial Id	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	Result
0	16	355	14	4970	Pass
1	11.3	487	12	5844	Pass
2	13.5	344	13	4472	Pass
3	19.4	288	16	4608	Pass
4	17.5	230	15	3450	Pass
5	15.3	432	14	6048	Pass
6	15.9	207	14	2898	Pass
7	14.3	443	13	5759	Pass
8	15.8	439	14	6146	Pass
9	11.5	223	12	2676	Pass



Test Result-5510MHz - 40MHz

Type 5

Trial Id	Number of Bursts	mber of Bursts Burst Period(s) Waveform Length(s)		Center Frequency(GHz)	Result
0	15	0.8	12	5.3	Pass
1	8	1.5	12	5.3	Pass
2	11	1.090909	12	5.3	Pass
3	20	0.6	12	5.3	Pass
4	17	0.705882	12	5.3	Pass
5	14	0.857143	12	5.3	Pass
6	15	0.8	12	5.3	Pass
7	12	1	12	5.3	Pass
8	14	0.857143	12	5.3	Pass
9	8	1.5	12	5.3	Pass

Note: Radar waveform center frequencies are selected based on section 7.8.4.2 Long Pulse Radar Test of 905462 D02 UNII DFS Compliance Procedures New Rules v02. For each detail Radar waveform please refer Annex B.

Test Result-5510MHz - 40MHz

Type 6

Trial Id	Pulse Width(us)	PRI(us)	Pulses per Hop	Hopping Rate(kHz)	Hopping Sequence Length(ms)	Visible Frequency Number	Result
0	1	333.3	9	0.3333	300	32	Pass
1	1	333.3	9	0.3333	300	27	Pass
2	1	333.3	9	0.3333	300	25	Pass
3	1	333.3	9	0.3333	300	33	Pass
4	1	333.3	9	0.3333	300	37	Pass
5	1	333.3	9	0.3333	300	30	Pass
6	1	333.3	9	0.3333	300	33	Pass
7	1	333.3	9	0.3333	300	27	Pass
8	1	333.3	9	0.3333	300	33	Pass
9	1	333.3	9	0.3333	300	30	Pass



Appendix A - Radar Type waveform characteristic

Type 5: Waveform 1

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.5	2	60	1728	0.51	20
2	1.5 - 3.0	3	76	1076, 1580	2.55	10
3	3.0 - 4.5	3	72	1872, 1208	3.96	20
4	4.5 - 6.0	2	76	1860	5.655	10
5	6.0 - 7.5	3	100	1400, 1860	6.825	20
6	7.5 - 9.0	1	52	/	7.89	10
7	9.0 - 10.5	3	92	1460, 1720	9.735	20
8	10.5 - 12.0	3	64	1704, 1240	10.98	10

Waveform 2

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.5	1	96	/	0.315	20
2	1.5 - 3.0	2	56	1784	1.68	10
3	3.0 - 4.5	3	100	1204, 1064	3.675	20
4	4.5 - 6.0	1	72	/	4.905	10
5	6.0 - 7.5	1	92	/	6.75	20
6	7.5 - 9.0	3	68	1060, 1808	7.71	10
7	9.0 - 10.5	3	72	1824, 1700	9.45	20
8	10.5 - 12.0	1	64	/	11.355	10

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.5	1	76	/	0.705	20
2	1.5 - 3.0	2	88	1964	2.505	10
3	3.0 - 4.5	1	100	/	3.375	20
4	4.5 - 6.0	1	60	/	5.19	10
5	6.0 - 7.5	1	64	/	6.585	20
6	7.5 - 9.0	1	56	/	7.905	10
7	9.0 - 10.5	1	100	/	9.75	20
8	10.5 - 12.0	3	96	1256, 1104	11.04	10



Waveform 4

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.5	1	52	/	0.645	20
2	1.5 - 3.0	3	56	1836, 1788	1.845	10
3	3.0 - 4.5	2	52	1416	3.66	20
4	4.5 - 6.0	2	56	1812	5.52	10
5	6.0 - 7.5	1	80	/	6.6	20
6	7.5 - 9.0	3	92	1928, 1036	8.58	10
7	9.0 - 10.5	2	84	2000	9.24	20
8	10.5 - 12.0	2	88	1036	11.115	10

Waveform 5

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.5	2	56	1952	0.435	20
2	1.5 - 3.0	1	60	/	2.04	10
3	3.0 - 4.5	2	92	1064	3.99	20
4	4.5 - 6.0	2	64	1540	4.875	10
5	6.0 - 7.5	1	72	/	6.525	20
6	7.5 - 9.0	2	76	1692	7.785	10
7	9.0 - 10.5	3	80	1900, 1072	9.465	20
8	10.5 - 12.0	2	76	1136	10.74	10

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.2	3	56	1484, 1292	0.252	20
2	1.2 - 2.4	3	68	1028, 1424	1.764	10
3	2.4 - 3.6	1	56	/	3.252	20
4	3.6 - 4.8	2	64	1956	3.9	10
5	4.8 - 6.0	2	100	1004	5.088	20
6	6.0 - 7.2	3	88	1368, 1652	6.672	10
7	7.2 - 8.4	3	52	1208, 1656	7.836	20
8	8.4 - 9.6	1	96	/	8.832	10
9	9.6 - 10.8	2	84	1288	9.972	20
10	10.8 - 12.0	1	100	/	11.16	10



Waveform 7

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.2	3	80	1656, 1788	0.852	20
2	1.2 - 2.4	1	96	/	1.404	10
3	2.4 - 3.6	1	84	/	3.108	20
4	3.6 - 4.8	3	56	1728, 1768	4.536	10
5	4.8 - 6.0	3	76	1596, 1656	5.496	20
6	6.0 - 7.2	3	64	1232, 1696	6.36	10
7	7.2 - 8.4	2	92	1924	7.848	20
8	8.4 - 9.6	1	96	/	8.544	10
9	9.6 - 10.8	1	60	/	9.78	20
10	10.8 - 12.0	1	76	/	10.992	10

Waveform 8

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.2	3	96	1940, 1260	0.636	20
2	1.2 - 2.4	1	72	/	1.368	10
3	2.4 - 3.6	3	60	1820, 1556	3.276	20
4	3.6 - 4.8	2	92	1416	3.72	10
5	4.8 - 6.0	3	96	1480, 1604	5.496	20
6	6.0 - 7.2	1	56	/	6.528	10
7	7.2 - 8.4	1	68	/	7.764	20
8	8.4 - 9.6	1	64	/	8.772	10
9	9.6 - 10.8	2	88	1232	10.08	20
10	10.8 - 12.0	2	76	1396	11.124	10

Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing (us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.2	1	76	/	0.588	20
2	1.2 - 2.4	1	56	/	1.86	10
3	2.4 - 3.6	3	92	1860, 1084	3.3	20
4	3.6 - 4.8	1	96	/	4.236	10
5	4.8 - 6.0	3	92	1432, 1860	5.28	20
6	6.0 - 7.2	1	100	/	6.264	10
7	7.2 - 8.4	3	64	1544, 1368	8.064	20
8	8.4 - 9.6	2	72	1248	8.724	10
9	9.6 - 10.8	1	76	/	9.828	20
10	10.8 - 12.0	3	84	1136, 1992	11.568	10



Burst #	Burst Interval(s)	Number of Pulses	Pulse Width (us)	Pulse Spacing(us)	Pulse Start (s)	Chirp Width (MHZ)
1	0.0 - 1.2	1	68	/	0.576	20
2	1.2 - 2.4	1	84	/	1.44	10
3	2.4 - 3.6	3	64	1620, 1340	2.928	20
4	3.6 - 4.8	2	72	1552	4.2	10
5	4.8 - 6.0	3	64	1608, 1880	5.388	20
6	6.0 - 7.2	2	60	1672	6.192	10
7	7.2 - 8.4	3	52	1080, 1344	8.04	20
8	8.4 - 9.6	3	76	1828, 1868	8.568	10
9	9.6 - 10.8	2	56	1032	10.08	20
10	10.8 - 12.0	3	64	1728, 1256	11.088	10



Appendix B – Information on the Testing Laboratories

Bureau Veritas is a global leader in testing, inspection and certification (TIC) services. We help businesses improve safety, sustainability and productivity; and our clients include the majority of leading brands in retail, manufacturing and other industries. With a presence in every major country around the world, our quality assurance and compliance solutions are vital in helping our customers enhance product quality and concept-to-consumer journeys. We also assist with increasing speed to market, profitability and brand equity throughout the supply chain. Bureau Veritas is a leading wireless/IoT testing, inspection, audit and certification provider, with a global network of test laboratories to support the IoT industry in areas of connectivity, security, interoperability as well as quality, health & safety, and environmental/chemical requirements.

If you have any comments, please feel free to contact us at the following:

Milpitas EMC/RF/Safety/Telecom Lab

775 Montague Expressway, Milpitas, CA 95035 Tel: +1 408 526 1188

Sunnyvale OTA/Bluetooth Lab

1293 Anvilwood Avenue, Sunnyvale, CA 94089 Tel: +1 669 600 5293

Littleton EMC/RF/Safety/Environmental Lab

1 Distribution Center Cir #1, Littleton, MA 01460 Tel: +1 978 486 8880

Email: <u>sales.eaw@us.bureauveritas.com</u> Web Site: <u>www.cpsusa-bureauveritas.com</u>

The address and road map of all our labs can be found in our web site also.

--- END ---