



# 7.7. Frequency Stability Measurement

#### 7.7.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ±20 ppm maximum for the 5GHz band (IEEE 802.11 specification).

#### 7.7.2.Test Procedure Used

## **Frequency Stability Under Temperature Variations:**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

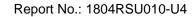
#### **Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.

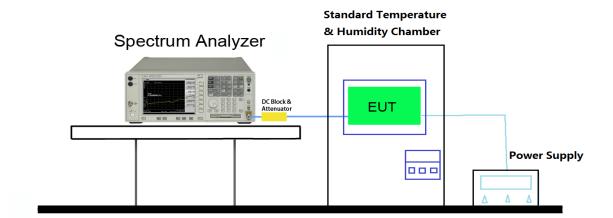
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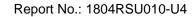
IC: 1693B-CT40L0N





# 7.7.3.Test Setup







### 7.7.4.Test Result

Dolphine	DOLPHIN CT40	Temperature	-30 ~ 50°C
Test Engineer	Cat Hu	Relative Humidity	46 ~ 58%RH
Test Site	TR3	Test Time	2018/04/19
Test Mode	5320MHz (Carrier Mode)		

Voltage	Power	Temp	Frequency Tolerance (ppm)				
(%)	(VAC)	(℃)	0 minutes	2 minutes	5 minutes	10 minutes	
		- 30	6.10	8.82	6.72	7.48	
		- 20	6.55	5.51	7.27	6.84	
		- 10	6.29	8.64	8.38	7.77	
		0	6.52	8.83	10.51	8.78	
100%	120	+ 10	8.63	9.40	8.68	8.82	
		+ 20 (Ref)	7.20	6.09	7.12	7.15	
		+ 30	4.26	5.89	6.22	5.04	
		+ 40	2.50	3.19	4.47	5.66	
		+ 50	1.71	2.87	3.87	3.49	
115%	138	+ 20	2.36	1.57	3.64	2.69	
85%	102	+ 20	2.00	3.74	4.13	3.37	

Note: Frequency Tolerance (ppm) =  $\{[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)\} *10<sup>6</sup>.$ 



# 7.8. Radiated Spurious Emission Measurement

#### 7.8.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209									
Frequency Field Strength Measured Distance									
[MHz]	[uV/m]	[Meters]							
0.009 - 0.490	2400/F (kHz)	300							
0.490 - 1.705	24000/F (kHz)	30							
1.705 - 30	30	30							
30 - 88	100	3							
88 - 216	150	3							
216 - 960	200	3							
Above 960	500	3							

#### 7.8.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

### 7.8.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz

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#### **Quasi-Peak Measurements below 1GHz**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as specified in Table 1
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

#### Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

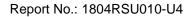
#### Average Measurements above 1GHz (Method VB)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

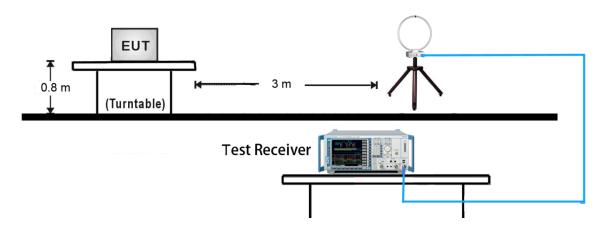
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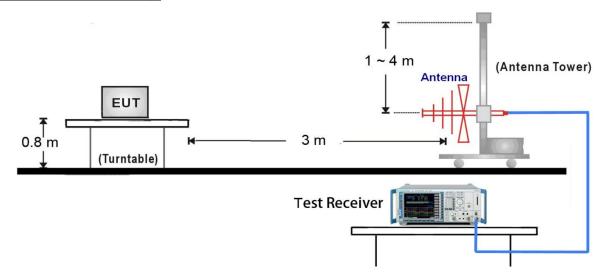


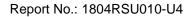
# 7.8.4.Test Setup

# 9kHz ~30MHz Test Setup:



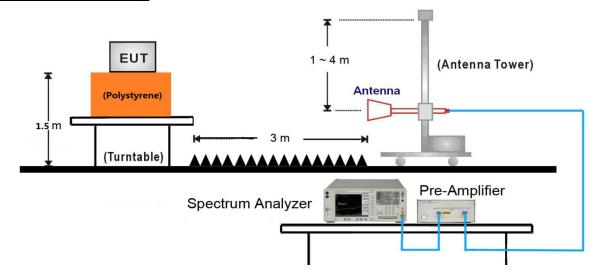
## 30MHz ~ 1GHz Test Setup:



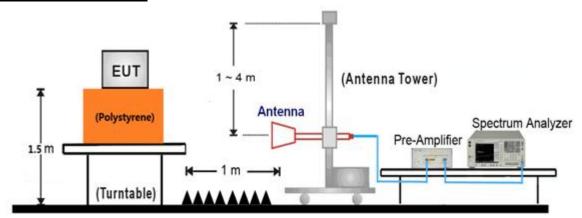




### 1GHz ~18GHz Test Setup:



# 18GHz ~40GHz Test Setup:





#### 7.8.5.Test Result

Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	36			
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7553.5	33.8	14.3	48.1	74.0	-25.9	Peak	Horizontal
	8191.0	32.3	14.2	46.5	74.0	-27.5	Peak	Horizontal
*	8820.0	31.8	14.9	46.7	68.2	-21.5	Peak	Horizontal
*	9729.5	31.7	16.5	48.2	68.2	-20.0	Peak	Horizontal
	7494.0	33.0	14.0	47.0	74.0	-27.0	Peak	Vertical
	8344.0	32.6	13.9	46.5	74.0	-27.5	Peak	Vertical
*	8667.0	32.4	14.4	46.8	68.2	-21.4	Peak	Vertical
*	9602.0	33.8	16.2	50.0	68.2	-18.2	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	44			
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7443.0	35.4	12.9	48.3	74.0	-25.7	Peak	Horizontal
	8259.0	35.4	12.9	48.3	74.0	-25.7	Peak	Horizontal
*	9593.5	34.0	15.2	49.2	68.2	-19.0	Peak	Horizontal
*	10035.5	33.1	16.7	49.8	68.2	-18.4	Peak	Horizontal
	7655.5	36.2	12.7	48.9	74.0	-25.1	Peak	Vertical
	8199.5	35.5	13.1	48.6	74.0	-25.4	Peak	Vertical
*	9653.0	35.6	15.5	51.1	68.2	-17.1	Peak	Vertical
*	9950.5	34.2	16.7	50.9	68.2	-17.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	48			
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7570.5	35.7	12.9	48.6	74.0	-25.4	Peak	Horizontal
	8276.0	35.5	12.8	48.3	74.0	-25.7	Peak	Horizontal
*	8803.0	34.4	13.3	47.7	68.2	-20.5	Peak	Horizontal
*	9857.0	33.3	16.7	50.0	68.2	-18.2	Peak	Horizontal
	7638.5	35.8	12.6	48.4	74.0	-25.6	Peak	Vertical
	8327.0	35.9	12.6	48.5	74.0	-25.5	Peak	Vertical
*	8896.5	35.9	13.2	49.1	68.2	-19.1	Peak	Vertical
*	10120.5	32.9	16.9	49.8	68.2	-18.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	52				
Remark:	limit.	<ol> <li>Average measurement was not performed if peak level lower than average limit.</li> <li>Other frequency was 20dB below limit line within 1-18GHz, there is not show</li> </ol>					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7664.0	36.4	12.8	49.2	74.0	-24.8	Peak	Horizontal
	8454.5	35.3	12.7	48.0	74.0	-26.0	Peak	Horizontal
*	9772.0	32.8	16.2	49.0	68.2	-19.2	Peak	Horizontal
*	10120.5	33.3	16.9	50.2	68.2	-18.0	Peak	Horizontal
	7434.5	35.7	12.8	48.5	74.0	-25.5	Peak	Vertical
	8310.0	34.6	12.6	47.2	74.0	-26.8	Peak	Vertical
*	8769.0	34.8	13.2	48.0	68.2	-20.2	Peak	Vertical
*	9823.0	34.7	16.5	51.2	68.2	-17.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



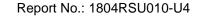


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	60				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7383.5	36.1	12.6	48.7	74.0	-25.3	Peak	Horizontal
	8182.5	36.4	13.2	49.6	74.0	-24.4	Peak	Horizontal
*	8871.0	35.4	13.2	48.6	68.2	-19.6	Peak	Horizontal
*	10188.5	34.1	17.1	51.2	68.2	-17.0	Peak	Horizontal
	7579.0	36.1	12.8	48.9	74.0	-25.1	Peak	Vertical
	8327.0	36.1	12.6	48.7	74.0	-25.3	Peak	Vertical
*	8820.0	34.6	13.3	47.9	68.2	-20.3	Peak	Vertical
*	9857.0	33.6	16.7	50.3	68.2	-17.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



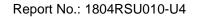


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	64				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(ασμν)		(ασμν/ιιι)				
	7528.0	32.9	14.5	47.4	74.0	-26.6	Peak	Horizontal
	8412.0	32.9	13.9	46.8	74.0	-27.2	Peak	Horizontal
*	8684.0	32.6	14.5	47.1	68.2	-21.1	Peak	Horizontal
*	9593.5	32.1	16.2	48.3	68.2	-19.9	Peak	Horizontal
	7655.5	33.7	13.9	47.6	74.0	-26.4	Peak	Vertical
	8148.5	32.7	14.5	47.2	74.0	-26.8	Peak	Vertical
*	8667.0	32.5	14.4	46.9	68.2	-21.3	Peak	Vertical
*	10112.0	32.7	18.0	50.7	68.2	-17.5	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	100			
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(ασμν/ιιι)				
	7443.0	32.9	14.3	47.2	74.0	-26.8	Peak	Horizontal
	8182.5	32.1	14.3	46.4	74.0	-27.6	Peak	Horizontal
*	8837.0	31.5	14.8	46.3	68.2	-21.9	Peak	Horizontal
*	9772.0	31.0	17.0	48.0	68.2	-20.2	Peak	Horizontal
	7519.5	32.7	14.4	47.1	74.0	-26.9	Peak	Vertical
	8233.5	32.8	14.2	47.0	74.0	-27.0	Peak	Vertical
*	8879.5	30.2	14.9	45.1	68.2	-23.1	Peak	Vertical
*	9814.5	31.6	17.0	48.6	68.2	-19.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



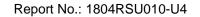


Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	116			
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7613.0	36.5	12.6	49.1	74.0	-24.9	Peak	Horizontal
	8276.0	34.7	12.8	47.5	74.0	-26.5	Peak	Horizontal
*	8803.0	34.7	13.3	48.0	68.2	-20.2	Peak	Horizontal
*	9865.5	33.5	16.7	50.2	68.2	-18.0	Peak	Horizontal
	7570.5	34.8	12.9	47.7	74.0	-26.3	Peak	Vertical
	8259.0	34.7	12.9	47.6	74.0	-26.4	Peak	Vertical
*	8854.0	33.9	13.4	47.3	68.2	-20.9	Peak	Vertical
*	9746.5	34.8	16.1	50.9	68.2	-17.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



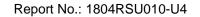


Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11a	Test Channel:	120			
Remark:	1. Average measurement was not p	performed if peak level love	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7468.5	34.4	12.9	47.3	74.0	-26.7	Peak	Horizontal
	8369.5	35.1	12.6	47.7	74.0	-26.3	Peak	Horizontal
*	8752.0	35.6	13.2	48.8	68.2	-19.4	Peak	Horizontal
*	9865.5	33.9	16.7	50.6	68.2	-17.6	Peak	Horizontal
	7562.0	36.3	12.9	49.2	74.0	-24.8	Peak	Vertical
	8233.5	35.3	13.0	48.3	74.0	-25.7	Peak	Vertical
*	9806.0	34.3	16.3	50.6	68.2	-17.6	Peak	Vertical
*	10494.5	35.0	17.5	52.5	68.2	-15.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



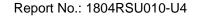


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	140				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7468.5	35.9	12.9	48.8	74.0	-25.2	Peak	Horizontal
	8412.0	35.7	12.5	48.2	74.0	-25.8	Peak	Horizontal
*	9636.0	33.8	15.5	49.3	68.2	-18.9	Peak	Horizontal
*	10171.5	33.2	17.0	50.2	68.2	-18.0	Peak	Horizontal
	7536.5	34.6	12.9	47.5	74.0	-26.5	Peak	Vertical
	8233.5	35.5	13.0	48.5	74.0	-25.5	Peak	Vertical
*	9636.0	33.8	15.5	49.3	68.2	-18.9	Peak	Vertical
*	10103.5	35.2	16.9	52.1	68.2	-16.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



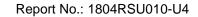


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	144				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7502.5	34.8	12.7	47.5	74.0	-26.5	Peak	Horizontal
	8284.5	35.3	12.7	48.0	74.0	-26.0	Peak	Horizontal
*	8854.0	34.6	13.4	48.0	68.2	-20.2	Peak	Horizontal
*	9916.5	33.5	16.6	50.1	68.2	-18.1	Peak	Horizontal
	7545.0	36.0	13.0	49.0	74.0	-25.0	Peak	Vertical
	8140.0	36.0	13.4	49.4	74.0	-24.6	Peak	Vertical
*	8692.5	34.0	13.0	47.0	68.2	-21.2	Peak	Vertical
*	9823.0	33.0	16.5	49.5	68.2	-18.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



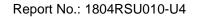


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	149				
Remark:	1. Average measurement was not p	performed if peak level love	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7604.5	35.4	12.7	48.1	74.0	-25.9	Peak	Horizontal
	8148.5	36.6	13.3	49.9	74.0	-24.1	Peak	Horizontal
*	8692.5	34.1	13.0	47.1	68.2	-21.1	Peak	Horizontal
*	9772.0	32.5	16.2	48.7	68.2	-19.5	Peak	Horizontal
	7443.0	34.5	12.9	47.4	74.0	-26.6	Peak	Vertical
	8344.0	36.0	12.6	48.6	74.0	-25.4	Peak	Vertical
*	8803.0	34.4	13.3	47.7	68.2	-20.5	Peak	Vertical
*	9780.5	32.9	16.1	49.0	68.2	-19.2	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



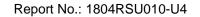


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	157				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7536.5	33.6	14.4	48.0	74.0	-26.0	Peak	Horizontal
	8216.5	31.8	14.1	45.9	74.0	-28.1	Peak	Horizontal
*	8837.0	32.0	14.8	46.8	68.2	-21.4	Peak	Horizontal
*	9891.0	32.5	17.3	49.8	68.2	-18.4	Peak	Horizontal
	7553.5	33.9	14.3	48.2	74.0	-25.8	Peak	Vertical
	8182.5	32.5	14.3	46.8	74.0	-27.2	Peak	Vertical
*	8667.0	32.3	14.4	46.7	68.2	-21.5	Peak	Vertical
*	9823.0	31.9	17.1	49.0	68.2	-19.2	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11a	Test Channel:	165				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7604.5	35.4	12.7	48.1	74.0	-25.9	Peak	Horizontal
	8233.5	35.7	13.0	48.7	74.0	-25.3	Peak	Horizontal
*	8811.5	35.5	13.3	48.8	68.2	-19.4	Peak	Horizontal
*	9840.0	33.5	16.7	50.2	68.2	-18.0	Peak	Horizontal
	7553.5	35.4	13.0	48.4	74.0	-25.6	Peak	Vertical
	8216.5	36.2	13.0	49.2	74.0	-24.8	Peak	Vertical
*	8667.0	35.0	12.9	47.9	68.2	-20.3	Peak	Vertical
*	10197.0	34.3	17.2	51.5	68.2	-16.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



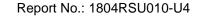


Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11n-HT20	Test Channel:	36
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	ŭ

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7536.5	35.8	12.9	48.7	74.0	-25.3	Peak	Horizontal
	8199.5	35.8	13.1	48.9	74.0	-25.1	Peak	Horizontal
*	8845.5	35.0	13.3	48.3	68.2	-19.9	Peak	Horizontal
*	9976.0	34.2	16.7	50.9	68.2	-17.3	Peak	Horizontal
	7485.5	36.1	12.8	48.9	74.0	-25.1	Peak	Vertical
	8191.0	35.8	13.1	48.9	74.0	-25.1	Peak	Vertical
*	8845.5	35.2	13.3	48.5	68.2	-19.7	Peak	Vertical
*	9933.5	33.8	16.7	50.5	68.2	-17.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



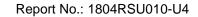


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	44				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7550.5	, - /	40.0	, ,	74.0	25.0	Daale	l la vima natal
	7553.5	35.4	13.0	48.4	74.0	-25.6	Peak	Horizontal
	8165.5	36.3	13.3	49.6	74.0	-24.4	Peak	Horizontal
*	8820.0	35.0	13.3	48.3	68.2	-19.9	Peak	Horizontal
*	9857.0	32.5	16.7	49.2	68.2	-19.0	Peak	Horizontal
	7451.5	36.0	12.9	48.9	74.0	-25.1	Peak	Vertical
	8199.5	35.5	13.1	48.6	74.0	-25.4	Peak	Vertical
*	8701.0	35.1	13.0	48.1	68.2	-20.1	Peak	Vertical
*	9933.5	33.7	16.7	50.4	68.2	-17.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



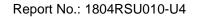


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	48				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7511.0	33.3	14.3	47.6	74.0	-26.4	Peak	Horizontal
	8276.0	30.7	14.0	44.7	74.0	-29.3	Peak	Horizontal
*	8913.5	31.6	14.8	46.4	68.2	-21.8	Peak	Horizontal
*	9891.0	32.3	17.3	49.6	68.2	-18.6	Peak	Horizontal
	7604.5	33.5	14.2	47.7	74.0	-26.3	Peak	Vertical
	8352.5	32.2	13.8	46.0	74.0	-28.0	Peak	Vertical
*	8701.0	31.5	14.6	46.1	68.2	-22.1	Peak	Vertical
*	9763.5	32.9	17.0	49.9	68.2	-18.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



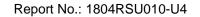


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	52				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7434.5	35.1	12.8	47.9	74.0	-26.1	Peak	Horizontal
	8199.5	35.0	13.1	48.1	74.0	-25.9	Peak	Horizontal
*	8905.0	35.5	13.3	48.8	68.2	-19.4	Peak	Horizontal
*	10290.5	34.3	17.2	51.5	68.2	-16.7	Peak	Horizontal
	7536.5	34.4	12.9	47.3	74.0	-26.7	Peak	Vertical
	8310.0	34.4	12.6	47.0	74.0	-27.0	Peak	Vertical
*	8811.5	33.6	13.3	46.9	68.2	-21.3	Peak	Vertical
*	9882.5	32.4	16.7	49.1	68.2	-19.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



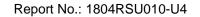


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	60				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7528.0	35.4	12.8	48.2	74.0	-25.8	Peak	Horizontal
	8276.0	35.0	12.8	47.8	74.0	-26.2	Peak	Horizontal
*	8854.0	34.9	13.4	48.3	68.2	-19.9	Peak	Horizontal
*	9891.0	33.6	16.6	50.2	68.2	-18.0	Peak	Horizontal
	7485.5	36.1	12.8	48.9	74.0	-25.1	Peak	Vertical
	8242.0	35.6	13.0	48.6	74.0	-25.4	Peak	Vertical
*	8760.5	35.2	13.2	48.4	68.2	-19.8	Peak	Vertical
*	10044.0	33.7	16.7	50.4	68.2	-17.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



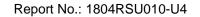


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	64				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7426.0	35.7	12.8	48.5	74.0	-25.5	Peak	Horizontal
	8293.0	35.6	12.7	48.3	74.0	-25.7	Peak	Horizontal
*	8777.5	34.5	13.2	47.7	68.2	-20.5	Peak	Horizontal
*	10018.5	34.6	16.6	51.2	68.2	-17.0	Peak	Horizontal
	7536.5	34.8	12.9	47.7	74.0	-26.3	Peak	Vertical
	8199.5	34.2	13.1	47.3	74.0	-26.7	Peak	Vertical
*	8726.5	34.8	13.0	47.8	68.2	-20.4	Peak	Vertical
*	9857.0	33.9	16.7	50.6	68.2	-17.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	100				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7596.0	32.9	14.1	47.0	74.0	-27.0	Peak	Horizontal
	8216.5	33.5	14.1	47.6	74.0	-26.4	Peak	Horizontal
*	8735.0	32.1	14.6	46.7	68.2	-21.5	Peak	Horizontal
*	9823.0	32.3	17.1	49.4	68.2	-18.8	Peak	Horizontal
	7477.0	32.9	14.0	46.9	74.0	-27.1	Peak	Vertical
	8276.0	32.0	14.0	46.0	74.0	-28.0	Peak	Vertical
*	9670.0	34.2	16.5	50.7	68.2	-17.5	Peak	Vertical
*	10290.5	31.9	18.4	50.3	68.2	-17.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	116				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7502.5	33.9	12.7	46.6	74.0	-27.4	Peak	Horizontal
	8276.0	34.0	12.8	46.8	74.0	-27.2	Peak	Horizontal
*	8692.5	35.1	13.0	48.1	68.2	-20.1	Peak	Horizontal
*	10316.0	34.2	17.4	51.6	68.2	-16.6	Peak	Horizontal
	7536.5	34.4	12.9	47.3	74.0	-26.7	Peak	Vertical
	8242.0	35.1	13.0	48.1	74.0	-25.9	Peak	Vertical
*	8769.0	33.7	13.2	46.9	68.2	-21.3	Peak	Vertical
*	10027.0	32.0	16.6	48.6	68.2	-19.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	120				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7638.5	33.3	12.6	45.9	74.0	-28.1	Peak	Horizontal
	8276.0	34.8	12.8	47.6	74.0	-26.4	Peak	Horizontal
*	9755.0	33.7	16.2	49.9	68.2	-18.3	Peak	Horizontal
*	10333.0	34.8	17.3	52.1	68.2	-16.1	Peak	Horizontal
	7553.5	35.7	13.0	48.7	74.0	-25.3	Peak	Vertical
	8242.0	34.0	13.0	47.0	74.0	-27.0	Peak	Vertical
*	8743.5	33.5	13.1	46.6	68.2	-21.6	Peak	Vertical
*	9933.5	33.5	16.7	50.2	68.2	-18.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



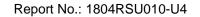


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	140				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7604.5	33.4	14.2	47.6	74.0	-26.4	Peak	Horizontal
	8276.0	30.8	14.0	44.8	74.0	-29.2	Peak	Horizontal
*	9925.0	32.8	17.5	50.3	68.2	-17.9	Peak	Horizontal
*	10333.0	32.5	18.4	50.9	68.2	-17.3	Peak	Horizontal
	7647.0	33.2	14.0	47.2	74.0	-26.8	Peak	Vertical
	8267.5	32.6	14.0	46.6	74.0	-27.4	Peak	Vertical
*	8845.5	31.9	14.8	46.7	68.2	-21.5	Peak	Vertical
*	10086.5	32.7	17.7	50.4	68.2	-17.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	144				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7681.0	35.8	12.8	48.6	74.0	-25.4	Peak	Horizontal
	8199.5	35.8	13.1	48.9	74.0	-25.1	Peak	Horizontal
*	8879.5	35.3	13.2	48.5	68.2	-19.7	Peak	Horizontal
*	10103.5	33.6	16.9	50.5	68.2	-17.7	Peak	Horizontal
	7477.0	36.1	12.9	49.0	74.0	-25.0	Peak	Vertical
	8471.5	35.3	12.7	48.0	74.0	-26.0	Peak	Vertical
*	9602.0	34.0	15.3	49.3	68.2	-18.9	Peak	Vertical
*	10290.5	33.2	17.2	50.4	68.2	-17.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	149				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7417.5	35.7	12.7	48.4	74.0	-25.6	Peak	Horizontal
	8199.5	35.2	13.1	48.3	74.0	-25.7	Peak	Horizontal
*	9865.5	33.6	16.7	50.3	68.2	-17.9	Peak	Horizontal
*	10350.0	33.8	17.3	51.1	68.2	-17.1	Peak	Horizontal
	7596.0	34.4	12.8	47.2	74.0	-26.8	Peak	Vertical
	8310.0	35.1	12.6	47.7	74.0	-26.3	Peak	Vertical
*	8769.0	33.8	13.2	47.0	68.2	-21.2	Peak	Vertical
*	10061.0	31.6	16.9	48.5	68.2	-19.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	157				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7570.5	36.8	12.9	49.7	74.0	-24.3	Peak	Horizontal
	8242.0	34.8	13.0	47.8	74.0	-26.2	Peak	Horizontal
*	9823.0	34.1	16.5	50.6	68.2	-17.6	Peak	Horizontal
*	10452.0	34.8	17.2	52.0	68.2	-16.2	Peak	Horizontal
	7477.0	35.4	12.9	48.3	74.0	-25.7	Peak	Vertical
	8182.5	36.6	13.2	49.8	74.0	-24.2	Peak	Vertical
*	8820.0	34.7	13.3	48.0	68.2	-20.2	Peak	Vertical
*	9848.5	33.9	16.7	50.6	68.2	-17.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT20	Test Channel:	165				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7443.0	32.8	14.3	47.1	74.0	-26.9	Peak	Horizontal
	8276.0	30.8	14.0	44.8	74.0	-29.2	Peak	Horizontal
*	8667.0	33.0	14.4	47.4	68.2	-20.8	Peak	Horizontal
*	10035.5	32.8	17.7	50.5	68.2	-17.7	Peak	Horizontal
	7553.5	32.4	14.3	46.7	74.0	-27.3	Peak	Vertical
	8318.5	32.5	13.9	46.4	74.0	-27.6	Peak	Vertical
*	8701.0	31.5	14.6	46.1	68.2	-22.1	Peak	Vertical
*	9925.0	31.7	17.5	49.2	68.2	-19.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



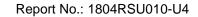


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	38				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7536.5	34.4	12.9	47.3	74.0	-26.7	Peak	Horizontal
	8284.5	35.8	12.7	48.5	74.0	-25.5	Peak	Horizontal
*	8803.0	35.1	13.3	48.4	68.2	-19.8	Peak	Horizontal
*	10018.5	34.0	16.6	50.6	68.2	-17.6	Peak	Horizontal
	7460.0	35.1	12.9	48.0	74.0	-26.0	Peak	Vertical
	8174.0	35.3	13.2	48.5	74.0	-25.5	Peak	Vertical
*	8811.5	34.7	13.3	48.0	68.2	-20.2	Peak	Vertical
*	10163.0	33.1	17.0	50.1	68.2	-18.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	46				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7434.5	35.9	12.8	48.7	74.0	-25.3	Peak	Horizontal
	8276.0	35.4	12.8	48.2	74.0	-25.8	Peak	Horizontal
*	8811.5	34.4	13.3	47.7	68.2	-20.5	Peak	Horizontal
*	10078.0	32.6	17.0	49.6	68.2	-18.6	Peak	Horizontal
	7451.5	35.7	12.9	48.6	74.0	-25.4	Peak	Vertical
	8250.5	36.4	12.9	49.3	74.0	-24.7	Peak	Vertical
*	9755.0	33.2	16.2	49.4	68.2	-18.8	Peak	Vertical
*	10197.0	33.1	17.2	50.3	68.2	-17.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11n-HT40	Test Channel:	54
Remark:	Average measurement was not plimit.     Other frequency was 20dB below	·	
	in the report.		

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7468.5	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
	8361.0	33.7	12.6	46.3	74.0	-27.7	Peak	Horizontal
*	8811.5	34.5	13.3	47.8	68.2	-20.4	Peak	Horizontal
*	9967.5	33.4	16.7	50.1	68.2	-18.1	Peak	Horizontal
	7553.5	34.4	13.0	47.4	74.0	-26.6	Peak	Vertical
	8233.5	35.6	13.0	48.6	74.0	-25.4	Peak	Vertical
*	8871.0	35.2	13.2	48.4	68.2	-19.8	Peak	Vertical
*	9984.5	34.0	16.7	50.7	68.2	-17.5	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	62				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7443.0	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
	8267.5	34.8	12.8	47.6	74.0	-26.4	Peak	Horizontal
*	9789.0	33.5	16.1	49.6	68.2	-18.6	Peak	Horizontal
*	10290.5	34.1	17.2	51.3	68.2	-16.9	Peak	Horizontal
	7468.5	35.8	12.9	48.7	74.0	-25.3	Peak	Vertical
	8250.5	35.4	12.9	48.3	74.0	-25.7	Peak	Vertical
*	8718.0	35.5	13.0	48.5	68.2	-19.7	Peak	Vertical
*	9823.0	33.2	16.5	49.7	68.2	-18.5	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11n-HT40	Test Channel:	102
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	Ü

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7681.0	36.2	12.8	49.0	74.0	-25.0	Peak	Horizontal
	8250.5	35.7	12.9	48.6	74.0	-25.4	Peak	Horizontal
*	8803.0	34.5	13.3	47.8	68.2	-20.4	Peak	Horizontal
*	10129.0	33.5	16.9	50.4	68.2	-17.8	Peak	Horizontal
	7468.5	35.8	12.9	48.7	74.0	-25.3	Peak	Vertical
	8361.0	35.8	12.6	48.4	74.0	-25.6	Peak	Vertical
*	8735.0	34.0	13.0	47.0	68.2	-21.2	Peak	Vertical
*	9942.0	33.8	16.8	50.6	68.2	-17.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



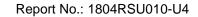


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	110				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7502.5	33.6	12.7	46.3	74.0	-27.7	Peak	Horizontal
	8242.0	33.9	13.0	46.9	74.0	-27.1	Peak	Horizontal
*	9865.5	33.0	16.7	49.7	68.2	-18.5	Peak	Horizontal
*	10511.5	34.3	17.6	51.9	68.2	-16.3	Peak	Horizontal
	7647.0	36.3	12.7	49.0	74.0	-25.0	Peak	Vertical
	8208.0	33.9	13.0	46.9	74.0	-27.1	Peak	Vertical
*	8828.5	35.1	13.3	48.4	68.2	-19.8	Peak	Vertical
*	9755.0	34.3	16.2	50.5	68.2	-17.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	118				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7570.5	34.5	12.9	47.4	74.0	-26.6	Peak	Horizontal
	8437.5	35.2	12.7	47.9	74.0	-26.1	Peak	Horizontal
	0437.3	33.2	12.7	47.9	74.0	-20.1	reak	пописта
*	9882.5	33.5	16.7	50.2	68.2	-18.0	Peak	Horizontal
*	10358.5	34.1	17.4	51.5	68.2	-16.7	Peak	Horizontal
	7426.0	35.5	12.8	48.3	74.0	-25.7	Peak	Vertical
	8233.5	35.5	13.0	48.5	74.0	-25.5	Peak	Vertical
*	8811.5	34.3	13.3	47.6	68.2	-20.6	Peak	Vertical
*	9950.5	33.2	16.7	49.9	68.2	-18.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	134				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7536.5	34.5	12.9	47.4	74.0	-26.6	Peak	Horizontal
	8276.0	34.1	12.8	46.9	74.0	-27.1	Peak	Horizontal
*	8811.5	32.6	13.3	45.9	68.2	-22.3	Peak	Horizontal
*	9814.5	34.3	16.4	50.7	68.2	-17.5	Peak	Horizontal
	7570.5	35.9	12.9	48.8	74.0	-25.2	Peak	Vertical
	8293.0	35.4	12.7	48.1	74.0	-25.9	Peak	Vertical
*	8828.5	34.8	13.3	48.1	68.2	-20.1	Peak	Vertical
*	9942.0	34.0	16.8	50.8	68.2	-17.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11n-HT40	Test Channel:	142
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	Ü

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7477.0	36.1	12.9	49.0	74.0	-25.0	Peak	Horizontal
	8454.5	35.3	12.7	48.0	74.0	-26.0	Peak	Horizontal
*	9738.0	34.1	15.9	50.0	68.2	-18.2	Peak	Horizontal
*	10494.5	34.3	17.5	51.8	68.2	-16.4	Peak	Horizontal
	7426.0	35.2	12.8	48.0	74.0	-26.0	Peak	Vertical
	8284.5	35.8	12.7	48.5	74.0	-25.5	Peak	Vertical
*	8803.0	34.2	13.3	47.5	68.2	-20.7	Peak	Vertical
*	9899.5	32.9	16.6	49.5	68.2	-18.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	151				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7434.5	34.4	12.8	47.2	74.0	-26.8	Peak	Horizontal
	8216.5	35.0	13.0	48.0	74.0	-26.0	Peak	Horizontal
*	9729.5	34.6	15.8	50.4	68.2	-17.8	Peak	Horizontal
*	10273.5	34.2	17.2	51.4	68.2	-16.8	Peak	Horizontal
	7349.5	35.6	12.7	48.3	74.0	-25.7	Peak	Vertical
	8242.0	34.5	13.0	47.5	74.0	-26.5	Peak	Vertical
*	8769.0	33.5	13.2	46.7	68.2	-21.5	Peak	Vertical
*	9899.5	32.3	16.6	48.9	68.2	-19.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





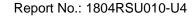
Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11n-HT40	Test Channel:	159				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7502.5	34.9	12.7	47.6	74.0	-26.4	Peak	Horizontal
	8293.0	35.4	12.7	48.1	74.0	-25.9	Peak	Horizontal
*	9865.5	33.8	16.7	50.5	68.2	-17.7	Peak	Horizontal
*	10316.0	33.4	17.4	50.8	68.2	-17.4	Peak	Horizontal
	7477.0	34.6	12.9	47.5	74.0	-26.5	Peak	Vertical
	8369.5	34.8	12.6	47.4	74.0	-26.6	Peak	Vertical
*	9644.5	33.3	15.5	48.8	68.2	-19.4	Peak	Vertical
*	10129.0	32.0	16.9	48.9	68.2	-19.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

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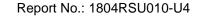


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	36				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7502.5	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	8412.0	34.3	12.5	46.8	74.0	-27.2	Peak	Horizontal
*	9848.5	33.3	16.7	50.0	68.2	-18.2	Peak	Horizontal
*	10256.5	34.1	17.2	51.3	68.2	-16.9	Peak	Horizontal
	7664.0	35.2	12.8	48.0	74.0	-26.0	Peak	Vertical
	8174.0	35.1	13.2	48.3	74.0	-25.7	Peak	Vertical
*	8854.0	34.3	13.4	47.7	68.2	-20.5	Peak	Vertical
*	9950.5	32.8	16.7	49.5	68.2	-18.7	Peak	Vertical

Note 2: Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	44				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7477.0	35.5	12.9	48.4	74.0	-25.6	Peak	Horizontal
	8361.0	35.5	12.6	48.1	74.0	-25.9	Peak	Horizontal
*	8701.0	34.4	13.0	47.4	68.2	-20.8	Peak	Horizontal
*	10018.5	32.8	16.6	49.4	68.2	-18.8	Peak	Horizontal
	7681.0	34.7	12.8	47.5	74.0	-26.5	Peak	Vertical
	8301.5	35.6	12.6	48.2	74.0	-25.8	Peak	Vertical
*	9772.0	33.5	16.2	49.7	68.2	-18.5	Peak	Vertical
*	10460.5	33.2	17.2	50.4	68.2	-17.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

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Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	48				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7366.5	34.7	12.7	47.4	74.0	-26.6	Peak	Horizontal
	8165.5	34.5	13.3	47.8	74.0	-26.2	Peak	Horizontal
*	8726.5	34.6	13.0	47.6	68.2	-20.6	Peak	Horizontal
*	10129.0	32.1	16.9	49.0	68.2	-19.2	Peak	Horizontal
	7536.5	35.4	12.9	48.3	74.0	-25.7	Peak	Vertical
	8242.0	35.8	13.0	48.8	74.0	-25.2	Peak	Vertical
*	8760.5	35.2	13.2	48.4	68.2	-19.8	Peak	Vertical
*	10086.5	33.0	16.9	49.9	68.2	-18.3	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	52				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7613.0	34.3	12.6	46.9	74.0	-27.1	Peak	Horizontal
	8216.5	34.3	13.0	47.3	74.0	-26.7	Peak	Horizontal
*	8786.0	34.6	13.3	47.9	68.2	-20.3	Peak	Horizontal
*	10290.5	33.8	17.2	51.0	68.2	-17.2	Peak	Horizontal
	7451.5	35.0	12.9	47.9	74.0	-26.1	Peak	Vertical
	8233.5	35.4	13.0	48.4	74.0	-25.6	Peak	Vertical
*	8735.0	34.6	13.0	47.6	68.2	-20.6	Peak	Vertical
*	9993.0	32.4	16.7	49.1	68.2	-19.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

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Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	60				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7613.0	34.5	12.6	47.1	74.0	-26.9	Peak	Horizontal
	8199.5	33.6	13.1	46.7	74.0	-27.3	Peak	Horizontal
*	8854.0	34.0	13.4	47.4	68.2	-20.8	Peak	Horizontal
*	10239.5	33.9	17.2	51.1	68.2	-17.1	Peak	Horizontal
	7553.5	34.2	13.0	47.2	74.0	-26.8	Peak	Vertical
	8242.0	34.3	13.0	47.3	74.0	-26.7	Peak	Vertical
*	8760.5	33.9	13.2	47.1	68.2	-21.1	Peak	Vertical
*	10146.0	31.1	17.0	48.1	68.2	-20.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	64				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7426.0	34.9	12.8	47.7	74.0	-26.3	Peak	Horizontal
	8242.0	35.6	13.0	48.6	74.0	-25.4	Peak	Horizontal
*	8828.5	35.3	13.3	48.6	68.2	-19.6	Peak	Horizontal
*	10018.5	33.9	16.6	50.5	68.2	-17.7	Peak	Horizontal
	7570.5	36.8	12.9	49.7	74.0	-24.3	Peak	Vertical
	8361.0	36.6	12.6	49.2	74.0	-24.8	Peak	Vertical
*	8743.5	34.5	13.1	47.6	68.2	-20.6	Peak	Vertical
*	9899.5	32.8	16.6	49.4	68.2	-18.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	100				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7511.0	35.5	12.7	48.2	74.0	-25.8	Peak	Horizontal
	8242.0	35.6	13.0	48.6	74.0	-25.4	Peak	Horizontal
*	8777.5	34.1	13.2	47.3	68.2	-20.9	Peak	Horizontal
*	10010.0	33.2	16.6	49.8	68.2	-18.4	Peak	Horizontal
	7519.5	35.3	12.8	48.1	74.0	-25.9	Peak	Vertical
	8267.5	35.1	12.8	47.9	74.0	-26.1	Peak	Vertical
*	8735.0	34.3	13.0	47.3	68.2	-20.9	Peak	Vertical
*	9959.0	33.9	16.7	50.6	68.2	-17.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



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Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	116				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

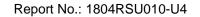
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7698.0	35.9	12.8	48.7	74.0	-25.3	Peak	Horizontal
	8233.5	35.7	13.0	48.7	74.0	-25.3	Peak	Horizontal
*	8735.0	33.7	13.0	46.7	68.2	-21.5	Peak	Horizontal
*	10095.0	34.7	16.9	51.6	68.2	-16.6	Peak	Horizontal
	7613.0	35.4	12.6	48.0	74.0	-26.0	Peak	Vertical
	8335.5	35.2	12.6	47.8	74.0	-26.2	Peak	Vertical
*	8820.0	33.7	13.3	47.0	68.2	-21.2	Peak	Vertical
*	10205.5	33.3	17.1	50.4	68.2	-17.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

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Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	120				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

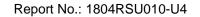
Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7460.0	34.6	12.9	47.5	74.0	-26.5	Peak	Horizontal
	8267.5	35.1	12.8	47.9	74.0	-26.1	Peak	Horizontal
*	8769.0	34.8	13.2	48.0	68.2	-20.2	Peak	Horizontal
*	10027.0	32.7	16.6	49.3	68.2	-18.9	Peak	Horizontal
	7596.0	33.5	12.8	46.3	74.0	-27.7	Peak	Vertical
	8276.0	35.7	12.8	48.5	74.0	-25.5	Peak	Vertical
*	8692.5	34.4	13.0	47.4	68.2	-20.8	Peak	Vertical
*	10129.0	32.6	16.9	49.5	68.2	-18.7	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

FCC ID: HD5-CT40L0N





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	140				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7383.5	36.7	12.6	49.3	74.0	-24.7	Peak	Horizontal
	8293.0	36.5	12.7	49.2	74.0	-24.8	Peak	Horizontal
*	8777.5	34.6	13.2	47.8	68.2	-20.4	Peak	Horizontal
*	10010.0	32.6	16.6	49.2	68.2	-19.0	Peak	Horizontal
	7460.0	35.7	12.9	48.6	74.0	-25.4	Peak	Vertical
	8267.5	36.0	12.8	48.8	74.0	-25.2	Peak	Vertical
*	8760.5	34.6	13.2	47.8	68.2	-20.4	Peak	Vertical
*	9967.5	34.1	16.7	50.8	68.2	-17.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	144				
Remark:	1. Average measurement was not p	performed if peak level love	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7579.0	36.0	12.8	48.8	74.0	-25.2	Peak	Horizontal
	8233.5	34.9	13.0	47.9	74.0	-26.1	Peak	Horizontal
*	8854.0	34.0	13.4	47.4	68.2	-20.8	Peak	Horizontal
*	9874.0	33.5	16.8	50.3	68.2	-17.9	Peak	Horizontal
	7502.5	35.4	12.7	48.1	74.0	-25.9	Peak	Vertical
	8361.0	35.7	12.6	48.3	74.0	-25.7	Peak	Vertical
*	9780.5	33.7	16.1	49.8	68.2	-18.4	Peak	Vertical
*	10307.5	33.5	17.3	50.8	68.2	-17.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	149				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7638.5	35.8	12.6	48.4	74.0	-25.6	Peak	Horizontal
	8259.0	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
*	8811.5	34.1	13.3	47.4	68.2	-20.8	Peak	Horizontal
*	9976.0	32.2	16.7	48.9	68.2	-19.3	Peak	Horizontal
	7468.5	35.8	12.9	48.7	74.0	-25.3	Peak	Vertical
	8242.0	35.6	13.0	48.6	74.0	-25.4	Peak	Vertical
*	8692.5	35.1	13.0	48.1	68.2	-20.1	Peak	Vertical
*	10078.0	32.5	17.0	49.5	68.2	-18.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	157				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7604.5	35.1	12.7	47.8	74.0	-26.2	Peak	Horizontal
	8276.0	34.7	12.8	47.5	74.0	-26.5	Peak	Horizontal
*	8794.5	34.3	13.3	47.6	68.2	-20.6	Peak	Horizontal
*	10171.5	31.7	17.0	48.7	68.2	-19.5	Peak	Horizontal
	7587.5	33.3	12.8	46.1	74.0	-27.9	Peak	Vertical
	8429.0	34.2	12.6	46.8	74.0	-27.2	Peak	Vertical
*	8828.5	34.4	13.3	47.7	68.2	-20.5	Peak	Vertical
*	9823.0	33.3	16.5	49.8	68.2	-18.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT20	Test Channel:	165				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7545.0	35.6	13.0	48.6	74.0	-25.4	Peak	Horizontal
	8284.5	35.8	12.7	48.5	74.0	-25.5	Peak	Horizontal
*	8794.5	34.4	13.3	47.7	68.2	-20.5	Peak	Horizontal
*	9899.5	32.8	16.6	49.4	68.2	-18.8	Peak	Horizontal
	7468.5	35.4	12.9	48.3	74.0	-25.7	Peak	Vertical
	8225.0	35.1	13.1	48.2	74.0	-25.8	Peak	Vertical
*	8828.5	34.3	13.3	47.6	68.2	-20.6	Peak	Vertical
*	9967.5	33.6	16.7	50.3	68.2	-17.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	38
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	ŭ

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7519.5	34.6	12.8	47.4	74.0	-26.6	Peak	Horizontal
	8352.5	35.3	12.6	47.9	74.0	-26.1	Peak	Horizontal
*	8769.0	34.6	13.2	47.8	68.2	-20.4	Peak	Horizontal
*	10256.5	33.1	17.2	50.3	68.2	-17.9	Peak	Horizontal
	7528.0	35.2	12.8	48.0	74.0	-26.0	Peak	Vertical
	8276.0	35.2	12.8	48.0	74.0	-26.0	Peak	Vertical
*	8811.5	33.7	13.3	47.0	68.2	-21.2	Peak	Vertical
*	9908.0	33.9	16.6	50.5	68.2	-17.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT40	Test Channel:	46				
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7485.5	35.3	12.8	48.1	74.0	-25.9	Peak	Horizontal
	8310.0	34.7	12.6	47.3	74.0	-26.7	Peak	Horizontal
*	8786.0	35.4	13.3	48.7	68.2	-19.5	Peak	Horizontal
*	9848.5	33.4	16.7	50.1	68.2	-18.1	Peak	Horizontal
	7460.0	35.6	12.9	48.5	74.0	-25.5	Peak	Vertical
	8378.0	35.4	12.6	48.0	74.0	-26.0	Peak	Vertical
*	8828.5	34.4	13.3	47.7	68.2	-20.5	Peak	Vertical
*	10018.5	33.2	16.6	49.8	68.2	-18.4	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT40	Test Channel:	54				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7579.0	34.1	12.8	46.9	74.0	-27.1	Peak	Horizontal
	8386.5	33.4	12.6	46.0	74.0	-28.0	Peak	Horizontal
*	9925.0	32.8	16.6	49.4	68.2	-18.8	Peak	Horizontal
*	10426.5	32.3	17.3	49.6	68.2	-18.6	Peak	Horizontal
	7468.5	34.8	12.9	47.7	74.0	-26.3	Peak	Vertical
	8199.5	34.1	13.1	47.2	74.0	-26.8	Peak	Vertical
*	8769.0	34.0	13.2	47.2	68.2	-21.0	Peak	Vertical
*	10350.0	32.3	17.3	49.6	68.2	-18.6	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	62
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	Č

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7638.5	32.8	14.1	46.9	74.0	-27.1	Peak	Horizontal
	8165.5	31.4	14.4	45.8	74.0	-28.2	Peak	Horizontal
*	8667.0	32.0	14.4	46.4	68.2	-21.8	Peak	Horizontal
*	9755.0	33.1	16.9	50.0	68.2	-18.2	Peak	Horizontal
	7519.5	32.7	14.4	47.1	74.0	-26.9	Peak	Vertical
	8310.0	31.6	13.8	45.4	74.0	-28.6	Peak	Vertical
*	8854.0	30.2	14.8	45.0	68.2	-23.2	Peak	Vertical
*	9772.0	31.0	17.0	48.0	68.2	-20.2	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT40	Test Channel:	102				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7536.5	32.7	14.4	47.1	74.0	-26.9	Peak	Horizontal
	8259.0	32.7	14.1	46.8	74.0	-27.2	Peak	Horizontal
*	8743.5	31.7	14.7	46.4	68.2	-21.8	Peak	Horizontal
*	9882.5	32.3	17.3	49.6	68.2	-18.6	Peak	Horizontal
	7604.5	32.6	14.2	46.8	74.0	-27.2	Peak	Vertical
	8208.0	31.9	14.1	46.0	74.0	-28.0	Peak	Vertical
*	8735.0	31.5	14.6	46.1	68.2	-22.1	Peak	Vertical
*	9772.0	30.5	17.0	47.5	68.2	-20.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT40	Test Channel:	110				
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7511.0	34.3	12.7	47.0	74.0	-27.0	Peak	Horizontal
	8284.5	34.3	12.7	47.0	74.0	-27.0	Peak	Horizontal
*	8752.0	33.8	13.2	47.0	68.2	-21.2	Peak	Horizontal
*	10078.0	31.7	17.0	48.7	68.2	-19.5	Peak	Horizontal
	7604.5	35.3	12.7	48.0	74.0	-26.0	Peak	Vertical
	8276.0	34.0	12.8	46.8	74.0	-27.2	Peak	Vertical
*	8803.0	34.7	13.3	48.0	68.2	-20.2	Peak	Vertical
*	10001.5	34.7	16.7	51.4	68.2	-16.8	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	118
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	Ü

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7400.5	33.3	12.6	45.9	74.0	-28.1	Peak	Horizontal
	8276.0	33.5	12.8	46.3	74.0	-27.7	Peak	Horizontal
*	8769.0	33.3	13.2	46.5	68.2	-21.7	Peak	Horizontal
*	9984.5	31.7	16.7	48.4	68.2	-19.8	Peak	Horizontal
	7460.0	35.4	12.9	48.3	74.0	-25.7	Peak	Vertical
	8369.5	35.4	12.6	48.0	74.0	-26.0	Peak	Vertical
*	8854.0	33.6	13.4	47.0	68.2	-21.2	Peak	Vertical
*	10086.5	32.3	16.9	49.2	68.2	-19.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11ac-VHT40	Test Channel:	134			
Remark:	1. Average measurement was not p	performed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7502.5	33.8	14.2	48.0	74.0	-26.0	Peak	Horizontal
	8378.0	32.7	13.8	46.5	74.0	-27.5	Peak	Horizontal
*	8743.5	31.3	14.7	46.0	68.2	-22.2	Peak	Horizontal
*	9916.5	33.2	17.4	50.6	68.2	-17.6	Peak	Horizontal
	7417.5	33.0	14.1	47.1	74.0	-26.9	Peak	Vertical
	8165.5	32.3	14.4	46.7	74.0	-27.3	Peak	Vertical
*	8692.5	31.5	14.6	46.1	68.2	-22.1	Peak	Vertical
*	9797.5	31.4	16.9	48.3	68.2	-19.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	142
Remark:	<ol> <li>Average measurement was not p limit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	ŭ

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7579.0	33.1	12.8	45.9	74.0	-28.1	Peak	Horizontal
	8259.0	33.7	12.9	46.6	74.0	-27.4	Peak	Horizontal
*	8905.0	33.3	13.3	46.6	68.2	-21.6	Peak	Horizontal
*	10469.0	31.5	17.3	48.8	68.2	-19.4	Peak	Horizontal
	7672.5	33.9	12.8	46.7	74.0	-27.3	Peak	Vertical
	8310.0	34.7	12.6	47.3	74.0	-26.7	Peak	Vertical
*	8896.5	34.8	13.2	48.0	68.2	-20.2	Peak	Vertical
*	10137.5	34.0	17.0	51.0	68.2	-17.2	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	151
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	ŭ

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7494.0	36.2	12.7	48.9	74.0	-25.1	Peak	Horizontal
	8242.0	34.2	13.0	47.2	74.0	-26.8	Peak	Horizontal
*	8811.5	34.3	13.3	47.6	68.2	-20.6	Peak	Horizontal
*	9942.0	33.0	16.8	49.8	68.2	-18.4	Peak	Horizontal
	7562.0	35.3	12.9	48.2	74.0	-25.8	Peak	Vertical
	8208.0	35.0	13.0	48.0	74.0	-26.0	Peak	Vertical
*	8896.5	35.6	13.2	48.8	68.2	-19.4	Peak	Vertical
*	10129.0	34.3	16.9	51.2	68.2	-17.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT40	Test Channel:	159
Remark:	<ol> <li>Average measurement was not p limit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	ŭ

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7460.0	35.4	12.9	48.3	74.0	-25.7	Peak	Horizontal
	8242.0	35.2	13.0	48.2	74.0	-25.8	Peak	Horizontal
*	8811.5	34.6	13.3	47.9	68.2	-20.3	Peak	Horizontal
*	10069.5	31.5	17.0	48.5	68.2	-19.7	Peak	Horizontal
	7604.5	34.1	12.7	46.8	74.0	-27.2	Peak	Vertical
	8216.5	33.9	13.0	46.9	74.0	-27.1	Peak	Vertical
*	8667.0	33.3	12.9	46.2	68.2	-22.0	Peak	Vertical
*	10018.5	34.9	16.6	51.5	68.2	-16.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT80	Test Channel:	42				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7511.0	34.1	12.7	46.8	74.0	-27.2	Peak	Horizontal
	8318.5	34.5	12.6	47.1	74.0	-26.9	Peak	Horizontal
*	8777.5	35.0	13.2	48.2	68.2	-20.0	Peak	Horizontal
*	10146.0	31.7	17.0	48.7	68.2	-19.5	Peak	Horizontal
	7477.0	35.3	12.9	48.2	74.0	-25.8	Peak	Vertical
	8267.5	34.4	12.8	47.2	74.0	-26.8	Peak	Vertical
*	8828.5	34.4	13.3	47.7	68.2	-20.5	Peak	Vertical
*	9993.0	33.0	16.7	49.7	68.2	-18.5	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



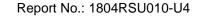


Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT80	Test Channel:	58				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7570.5	32.9	14.0	46.9	74.0	-27.1	Peak	Horizontal
	8182.5	31.8	14.3	46.1	74.0	-27.9	Peak	Horizontal
*	8828.5	30.6	14.9	45.5	68.2	-22.7	Peak	Horizontal
*	9942.0	32.4	17.5	49.9	68.2	-18.3	Peak	Horizontal
	7460.0	33.8	14.2	48.0	74.0	-26.0	Peak	Vertical
	8310.0	32.3	13.8	46.1	74.0	-27.9	Peak	Vertical
*	8726.5	32.0	14.6	46.6	68.2	-21.6	Peak	Vertical
*	9763.5	33.3	17.0	50.3	68.2	-17.9	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C				
Test Engineer	Alex Ma	Relative Humidity	58%				
Test Site	AC1	Test Date	2018/06/08				
Test Mode:	802.11ac-VHT80	Test Channel:	106				
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7468.5	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
	8293.0	33.3	12.7	46.0	74.0	-28.0	Peak	Horizontal
*	8658.5	33.1	13.0	46.1	68.2	-22.1	Peak	Horizontal
*	10069.5	31.4	17.0	48.4	68.2	-19.8	Peak	Horizontal
	7468.5	35.2	12.9	48.1	74.0	-25.9	Peak	Vertical
	8310.0	32.9	12.6	45.5	74.0	-28.5	Peak	Vertical
*	9789.0	34.7	16.1	50.8	68.2	-17.4	Peak	Vertical
*	10316.0	34.1	17.4	51.5	68.2	-16.7	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



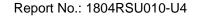


Product	DOLPHIN CT40	Temperature	25°C			
Test Engineer	Alex Ma	Relative Humidity	58%			
Test Site	AC1	Test Date	2018/06/08			
Test Mode:	802.11ac-VHT80	Test Channel:	122			
Remark:	1. Average measurement was not p	erformed if peak level lov	wer than average			
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7604.5	31.8	14.2	46.0	74.0	-28.0	Peak	Horizontal
	8386.5	31.1	13.8	44.9	74.0	-29.1	Peak	Horizontal
*	9644.5	32.6	16.4	49.0	68.2	-19.2	Peak	Horizontal
*	10290.5	31.4	18.4	49.8	68.2	-18.4	Peak	Horizontal
	7477.0	33.7	14.0	47.7	74.0	-26.3	Peak	Vertical
	8327.0	32.4	13.9	46.3	74.0	-27.7	Peak	Vertical
*	8692.5	31.4	14.6	46.0	68.2	-22.2	Peak	Vertical
*	9908.0	31.8	17.4	49.2	68.2	-19.0	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Product	DOLPHIN CT40	Temperature	25°C
Test Engineer	Alex Ma	Relative Humidity	58%
Test Site	AC1	Test Date	2018/06/08
Test Mode:	802.11ac-VHT80	Test Channel:	138
Remark:	<ol> <li>Average measurement was not plimit.</li> <li>Other frequency was 20dB below in the report.</li> </ol>	·	· ·

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)		(dBµV/m)				
	7375.0	35.7	12.6	48.3	74.0	-25.7	Peak	Horizontal
	8199.5	34.0	13.1	47.1	74.0	-26.9	Peak	Horizontal
*	8769.0	33.1	13.2	46.3	68.2	-21.9	Peak	Horizontal
*	9899.5	33.6	16.6	50.2	68.2	-18.0	Peak	Horizontal
	7562.0	33.5	12.9	46.4	74.0	-27.6	Peak	Vertical
	8250.5	34.9	12.9	47.8	74.0	-26.2	Peak	Vertical
*	8794.5	34.6	13.3	47.9	68.2	-20.3	Peak	Vertical
*	9933.5	34.4	16.7	51.1	68.2	-17.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



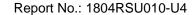


Product	DOLPHIN CT40	Temperature	25°C		
Test Engineer	Alex Ma	Relative Humidity	58%		
Test Site	AC1	Test Date	2018/06/08		
Test Mode:	802.11ac-VHT80	Test Channel:	155		
Remark:	1. Average measurement was not p	performed if peak level lo	wer than average		
	limit.				
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show				
	in the report.				

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	7417.5	35.7	12.7	48.4	74.0	-25.6	Peak	Horizontal
	8310.0	35.0	12.6	47.6	74.0	-26.4	Peak	Horizontal
*	8854.0	34.3	13.4	47.7	68.2	-20.5	Peak	Horizontal
*	9848.5	33.2	16.7	49.9	68.2	-18.3	Peak	Horizontal
	7570.5	34.0	12.9	46.9	74.0	-27.1	Peak	Vertical
	8242.0	34.2	13.0	47.2	74.0	-26.8	Peak	Vertical
*	8692.5	33.3	13.0	46.3	68.2	-21.9	Peak	Vertical
*	9899.5	32.5	16.6	49.1	68.2	-19.1	Peak	Vertical

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

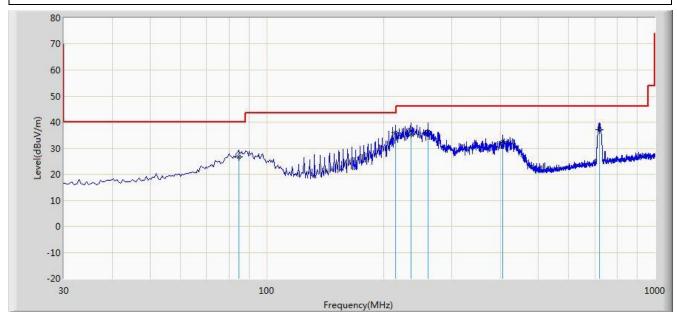
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





### The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2018/04/20 - 14:53				
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma				
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal				
EUT: DOLPHIN CT40	Power: PC				
Worst Case Mode: Transmit by 802.11ac-VHT20 at Channel 5785MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			84.800	26.703	16.490	-13.297	40.000	10.213	QP
2		*	214.840	35.844	24.150	-7.656	43.500	11.694	QP
3			235.200	35.312	22.570	-10.688	46.000	12.742	QP
4			259.910	36.310	23.060	-9.690	46.000	13.251	QP
5			405.400	32.406	15.670	-13.594	46.000	16.736	QP
6			718.700	37.230	14.860	-8.770	46.000	22.370	QP

Note 1: Measure Level  $(dB\mu V/m)$  = Reading Level  $(dB\mu V)$  + Factor (dB)

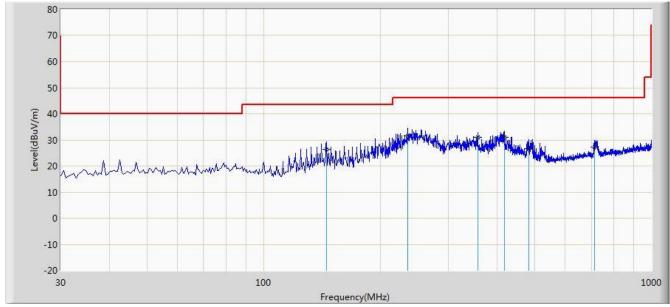
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

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Worst Case Mode: Transmit by 802.11ac-VHT20 at Channel 5785MHz					
EUT: DOLPHIN CT40	Power: PC				
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical				
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma				
Site: AC1	Time: 2018/04/20 - 14:56				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			145.420	26.436	11.470	-17.064	43.500	14.966	QP
2		*	235.250	31.484	18.740	-14.516	46.000	12.744	QP
3			356.540	31.038	15.345	-14.962	46.000	15.693	QP
4			417.540	30.932	13.860	-15.068	46.000	17.072	QP
5			483.500	26.681	8.350	-19.319	46.000	18.330	QP
6			714.350	27.321	5.020	-18.679	46.000	22.301	QP

Note 1: Measure Level  $(dB\mu V/m)$  = Reading Level  $(dB\mu V)$  + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range:  $9kHz \sim 30MHz$ ,  $18GHz \sim 40GHz$ ), therefore no data appear in the report.



# 7.9. Radiated Restricted Band Edge Measurement

#### 7.9.1.Test Limit

#### For 15.205 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

must also comply with the radiated emission limits specified in Section 13.209(a).								
Frequency	Frequency	Frequency	Frequency					
(MHz)	(MHz)	(MHz)	(GHz)					
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15					
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46					
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75					
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5					
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2					
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5					
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7					
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4					
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5					
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2					
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4					
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12					
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0					
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8					
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5					
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )					
13.36 - 13.41								

#### For 15.407(b) Requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not

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exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC	FCC Part 15 Subpart C Paragraph 15.209							
Frequency	Field Strength	Measured Distance						
[MHz]	[uV/m]	[Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

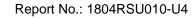


# For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)		
0.009 - 0.110	240 - 285	9.0 - 9.2		
2.1735 - 2.1905	322 - 335.4	9.3 - 9.5		
3.020 - 3.026	399.9 - 410	10.6 - 12.7		
4.125 - 4.128	608 - 614	13.25 - 13.4		
4.17725 - 4.17775	960 - 1427	14.47 - 14.5		
4.20725 - 4.20775	1435 - 1626.5	15.35 - 16.2		
5.677 - 5.683	1645.5 - 1646.5	17.7 - 21.4		
6.215 - 6.218	1660 - 1710	22.01 - 23.12		
6.26775 - 6.26825	1718.8 -1722.2	23.6 - 24.0		
6.31175 - 6.31225	2200 - 2300	31.2 - 31.8		
8.291 - 8.294	2310 -2390	36.43 - 36.5		
8.362 - 8.366	2655 - 2900	Above 38.6		
8.37625 - 8.38675	3260 - 3267			
8.41425 - 8.41475	3332 -3339			
12.29 - 12.293	334.5 - 3358			
12.51975 - 12.52025	3500 - 4400			
12.57675 - 12.57725	4500 - 5150			
13.36 -13.41	5350 - 5460			
16.42 - 16.423	7250 - 7750			
16.69475 - 16.69525	8025 - 8500			
16.80425 - 16.80475				
25.5 - 25.67				
37.5 - 38.25				
73 - 74.6				
74.8 - 75.2				
108 - 138				
156.52475 - 156.525225				
		1		

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.



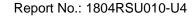


RSS-Gen Section 8.9									
Frequency	Field Strength	Measured Distance							
[MHz]	[uV/m]	[Meters]							
0.009 - 0.490	2400/F (kHz)	300							
0.490 - 1.705	24000/F (kHz)	30							
1.705 - 30	30	30							
30 - 88	100	3							
88 - 216	150	3							
216 - 960	200	3							
Above 960	500	3							

# 7.9.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)





### 7.9.3.Test Setting

# Peak Measurements above 1GHz

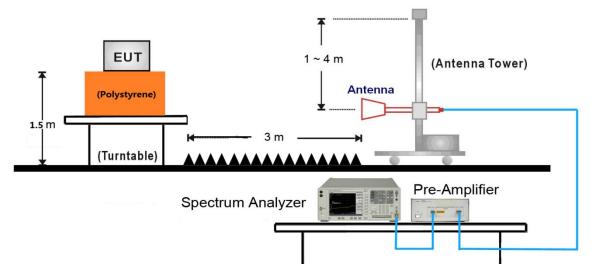
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

# Average Measurements above 1GHz (Method VB)

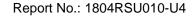
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW If the EUT is configured to transmit with duty cycle  $\geq$  98%, set VBW  $\leq$  RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is < 98%, set VBW  $\geq$  1/T.
- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

### 7.9.4.Test Setup

## CDD Mode Test Setup:



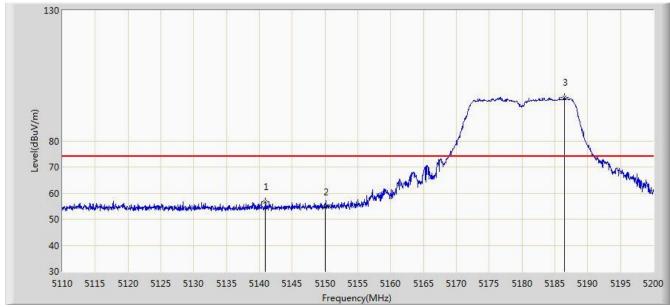
Note: This item was performed with the WIFI antenna connected.





### 7.9.5.Test Result

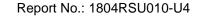
Site: AC1	Time: 2018/06/05 - 01:02			
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: DOLPHIN CT40	Power: By Battery			
Test Mode: Transmit by 802.11a at Channel 5180MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5140.915	56.682	50.583	-17.318	74.000	6.099	PK
2			5150.000	54.744	48.621	-19.256	74.000	6.123	PK
3			5186.410	96.770	90.720	N/A	N/A	6.050	PK

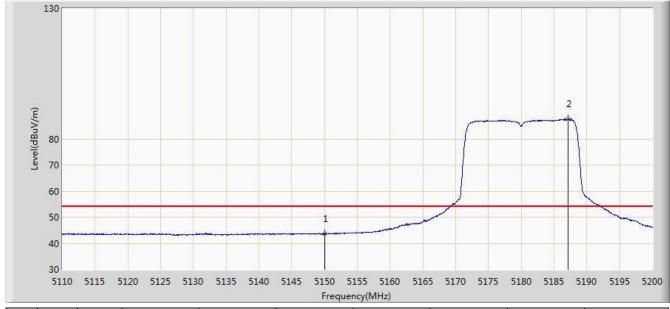
Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

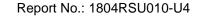




Site: AC1	Time: 2018/06/05 - 01:06			
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: DOLPHIN CT40	Power: By Battery			
Test Mode: Transmit by 802.11a at Channel 5180MHz				

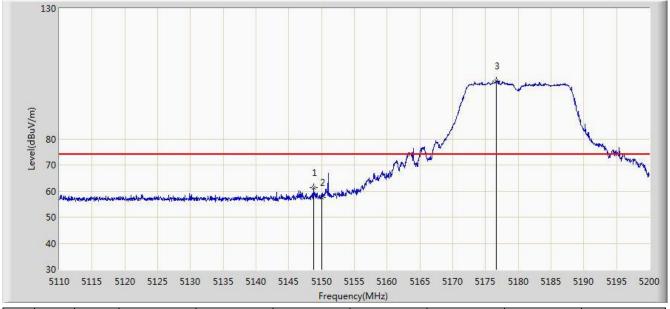


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5150.000	43.670	37.547	-10.330	54.000	6.123	AV
2			5187.175	87.697	81.653	N/A	N/A	6.043	AV

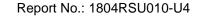




Site: AC1	Time: 2018/06/05 - 01:20			
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: DOLPHIN CT40	Power: By Battery			
Test Mode: Transmit by 802.11a at Channel 5180MHz				

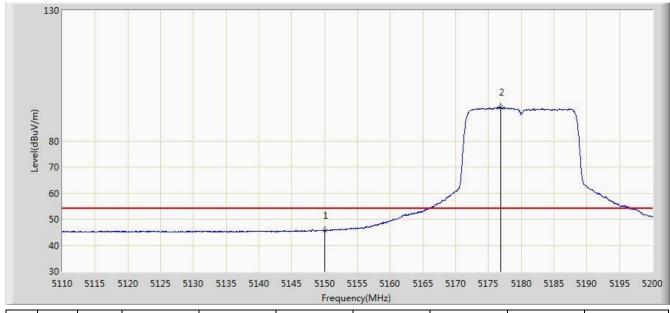


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5148.835	61.370	55.250	-12.630	74.000	6.120	PK
2			5150.000	57.419	51.296	-16.581	74.000	6.123	PK
3			5176.690	102.228	96.128	N/A	N/A	6.099	PK

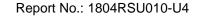




Site: AC1	Time: 2018/06/05 - 01:22			
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: DOLPHIN CT40	Power: By Battery			
Test Mode: Transmit by 802.11a at Channel 5180MHz				

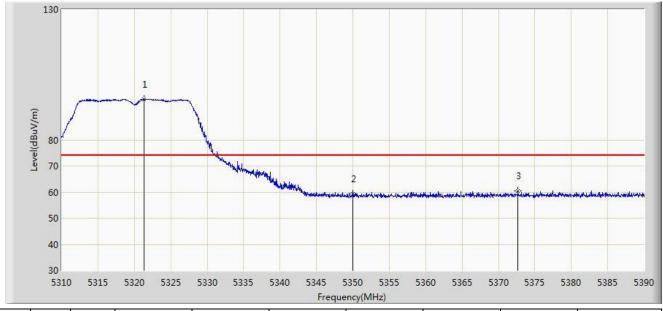


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5150.000	45.624	39.501	-8.376	54.000	6.123	AV
2			5176.825	92.793	86.694	N/A	N/A	6.099	AV

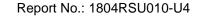




Site: AC1	Time: 2018/06/08 - 06:52			
Limit: FCC_Part15.209_RE(3m)	Engineer: Hunk Li			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: DOLPHIN CT40	Power: By Battery			
Test Mode: Transmit by 802.11a at Channel 5320MHz				

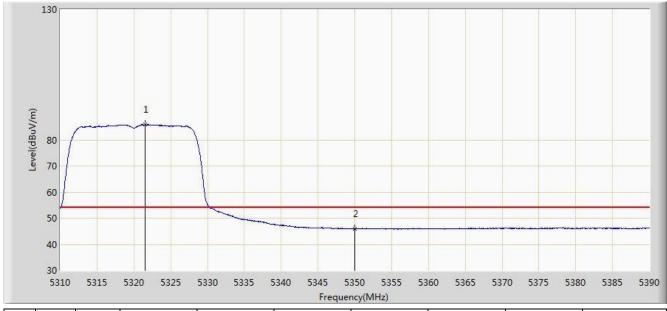


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5321.320	95.648	89.347	N/A	N/A	6.301	PK
2			5350.000	59.410	52.950	-14.590	74.000	6.460	PK
3			5372.680	60.503	53.968	-13.497	74.000	6.534	PK

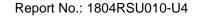




Site: AC1	Time: 2018/06/08 - 07:01				
Limit: FCC_Part15.209_RE(3m)	Engineer: Hunk Li				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: DOLPHIN CT40	Power: By Battery				
Test Mode: Transmit by 802.11a at Channel 5320MHz					

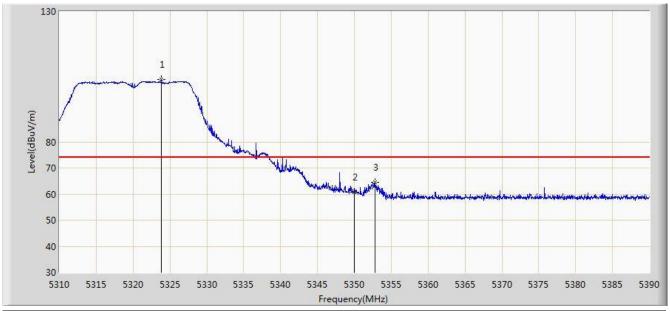


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5321.560	85.927	79.625	N/A	N/A	6.303	AV
2			5350.000	45.894	39.434	-8.106	54.000	6.460	AV

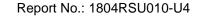




Site: AC1	Time: 2018/06/08 - 07:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Hunk Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: DOLPHIN CT40	Power: By Battery
Test Mode: Transmit by 802.11a at Channel 5320MHz	

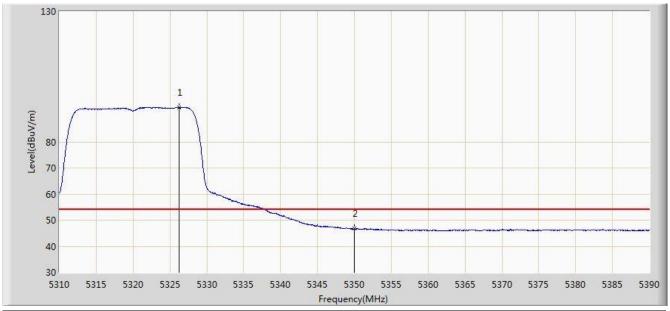


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5323.840	103.961	97.646	N/A	N/A	6.316	PK
2			5350.000	60.854	54.394	-13.146	74.000	6.460	PK
3			5352.760	64.483	58.010	-9.517	74.000	6.473	PK

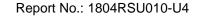




Site: AC1	Time: 2018/06/08 - 07:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Hunk Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: DOLPHIN CT40	Power: By Battery
Test Mode: Transmit by 802.11a at Channel 5320MHz	

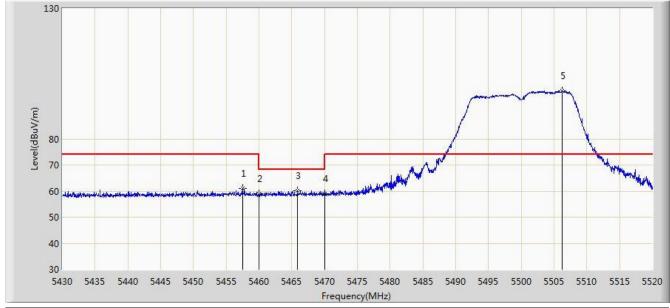


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5326.280	93.330	87.001	N/A	N/A	6.330	AV
2			5350.000	46.759	40.299	-7.241	54.000	6.460	AV

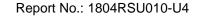




Site: AC1	Time: 2018/06/06 - 02:45				
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: DOLPHIN CT40	Power: By Battery				
Test Mode: Transmit by 802.11a at Channel 5500MHz					

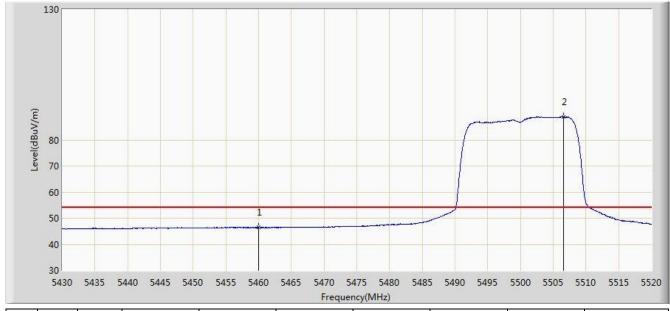


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5457.495	60.980	54.527	-13.020	74.000	6.452	PK
2			5460.000	58.866	52.413	-15.134	74.000	6.452	PK
3			5465.910	60.201	53.750	-7.999	68.200	6.451	PK
4			5470.000	59.050	52.600	-9.150	68.200	6.451	PK
5			5506.275	98.469	92.037	N/A	N/A	6.432	PK

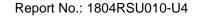




Site: AC1	Time: 2018/06/06 - 02:51				
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: DOLPHIN CT40	Power: By Battery				
Test Mode: Transmit by 802.11a at Channel 5500MHz					

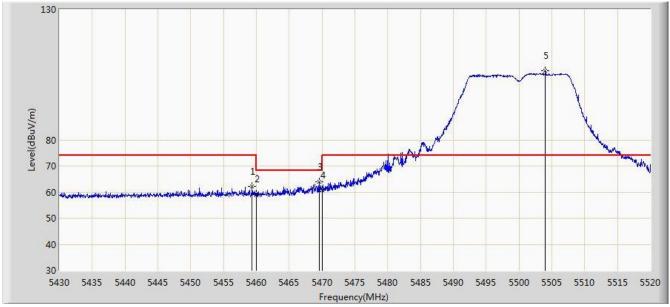


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5460.000	46.418	39.965	-7.582	54.000	6.452	AV
2			5506.590	88.863	82.429	N/A	N/A	6.433	AV



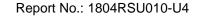


Site: AC1	Time: 2018/06/06 - 03:29				
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: DOLPHIN CT40	Power: By Battery				
Test Mode: Transmit by 802.11a at Channel 5500MHz					



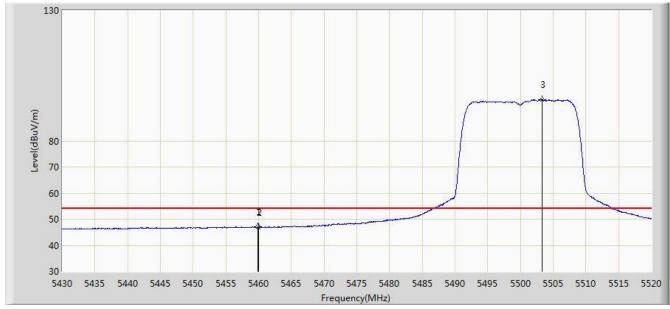
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5459.340	62.231	55.778	-11.769	74.000	6.452	PK
2			5460.000	59.260	52.807	-14.740	74.000	6.452	PK
3			5469.555	64.027	57.577	-4.173	68.200	6.450	PK
4			5470.000	60.625	54.175	-7.575	68.200	6.451	PK
5			5504.025	106.562	100.137	N/A	N/A	6.425	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)





Site: AC1	Time: 2018/06/06 - 03:31				
Limit: FCC_Part15.209_RE(3m)	Engineer: Cat Hu				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: DOLPHIN CT40	Power: By Battery				
Test Mode: Transmit by 802.11a at Channel 5500MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			5459.880	47.005	40.552	-6.995	54.000	6.452	AV
2			5460.000	46.861	40.408	-7.139	54.000	6.452	AV
3			5503.305	95.857	89.433	N/A	N/A	6.424	AV