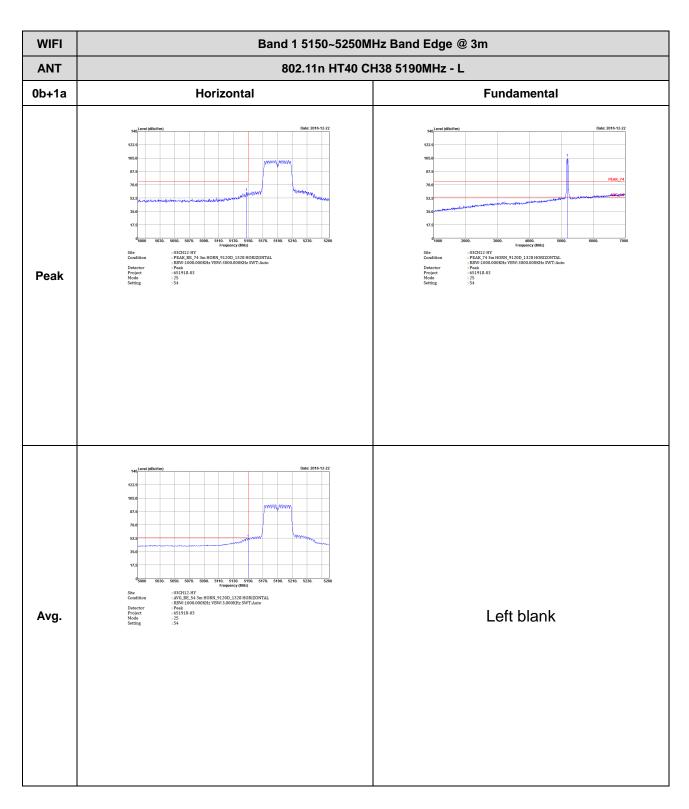


## Band 1 5150~5250MHz WIFI 802.11n HT40 (Band Edge @ 3m)

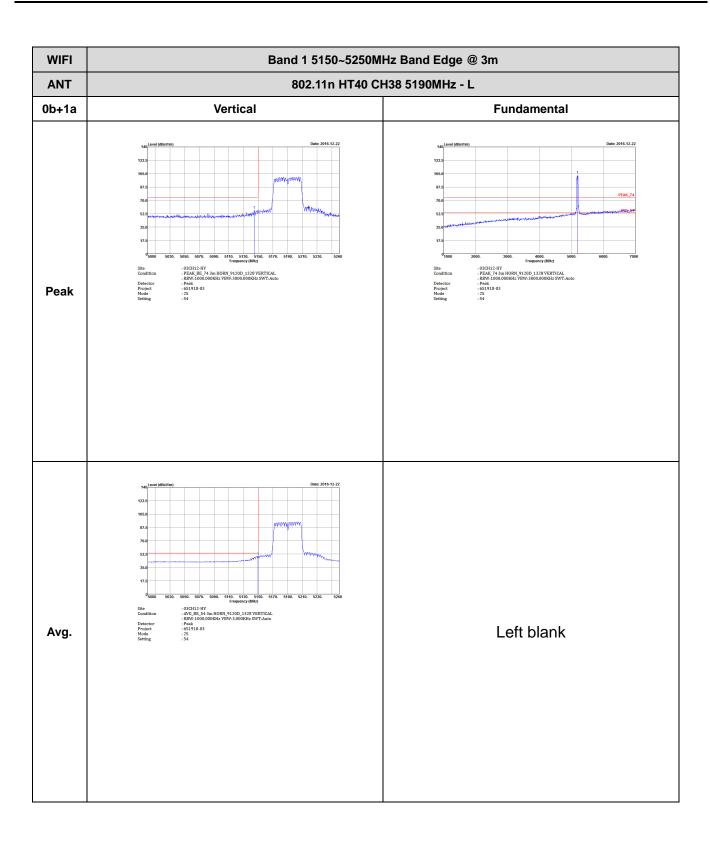


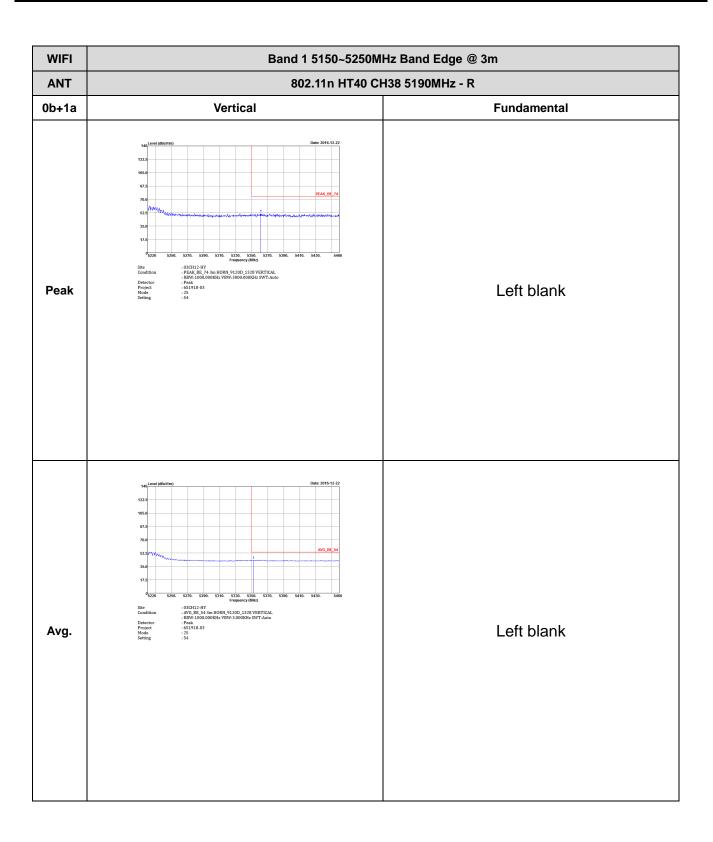
TEL: 886-3-327-3456 FAX: 886-3-328-4978

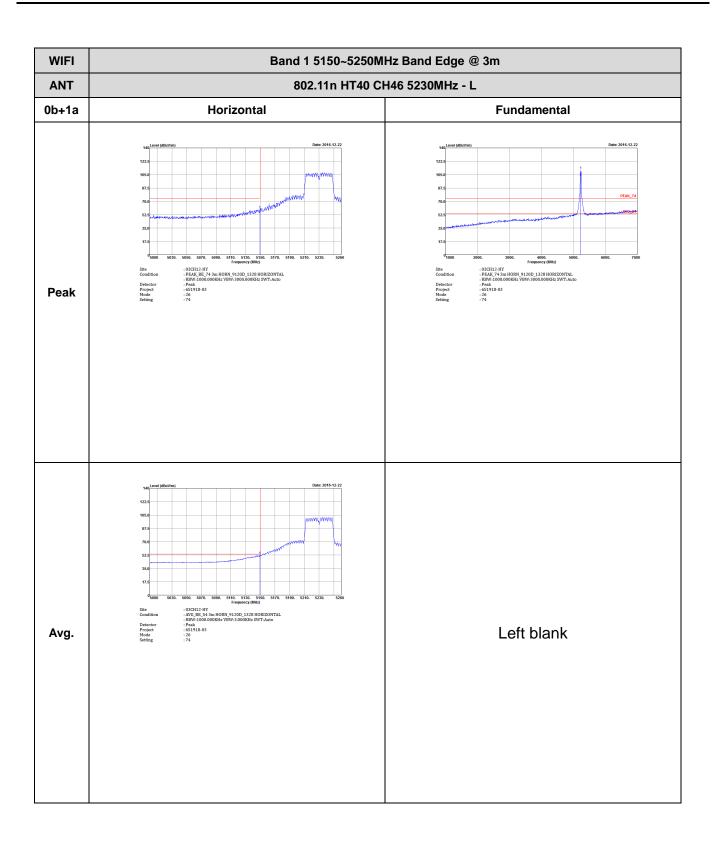
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT40 CH38 5190MHz - R 0b+1a Horizontal **Fundamental** Peak Left blank Frequency (MHz)

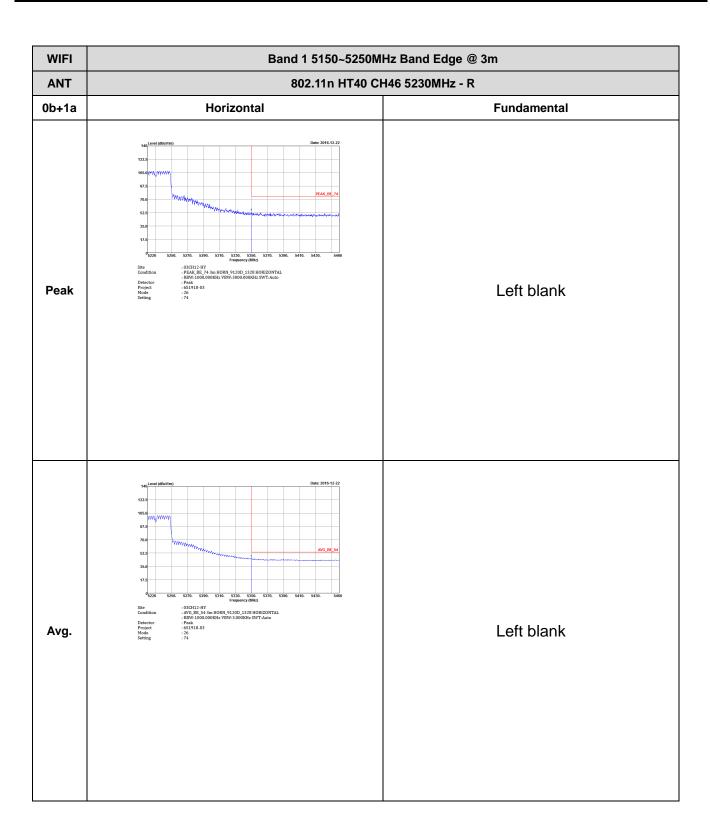
1/303CH12-HY
1/4VG\_BE\_545 mHORN\_9120D\_1328 HORIZONTAL
RBW:1000.000KHz VBW:3.000KHz SWT.Auto
Peak
651518-03
25
554 Left blank Avg.

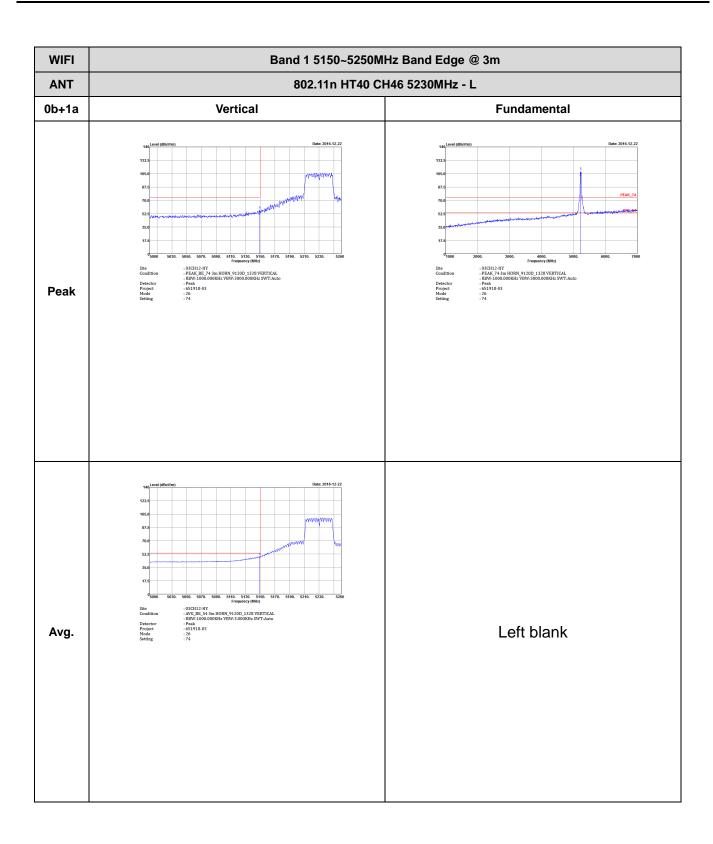
TEL: 886-3-327-3456 FAX: 886-3-328-4978





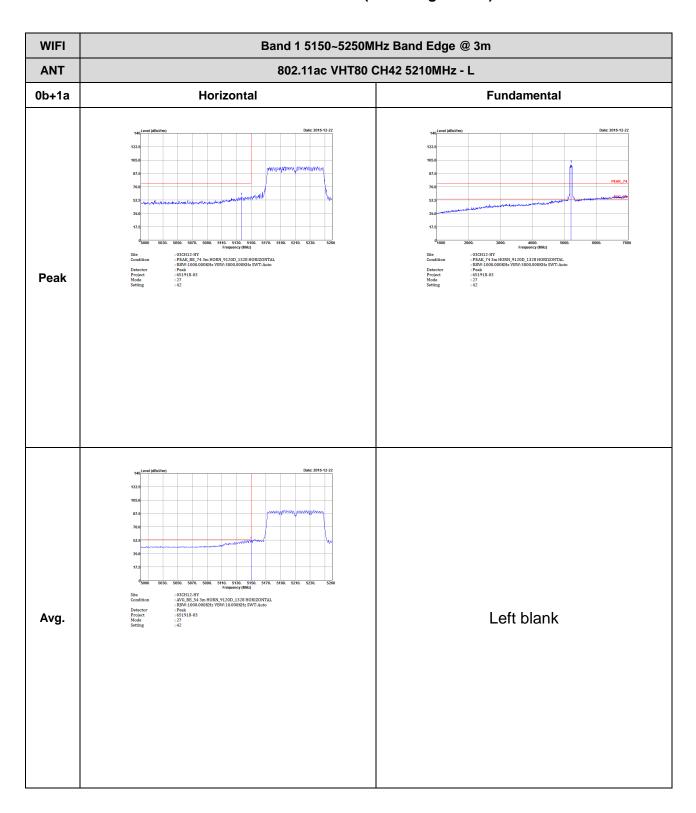




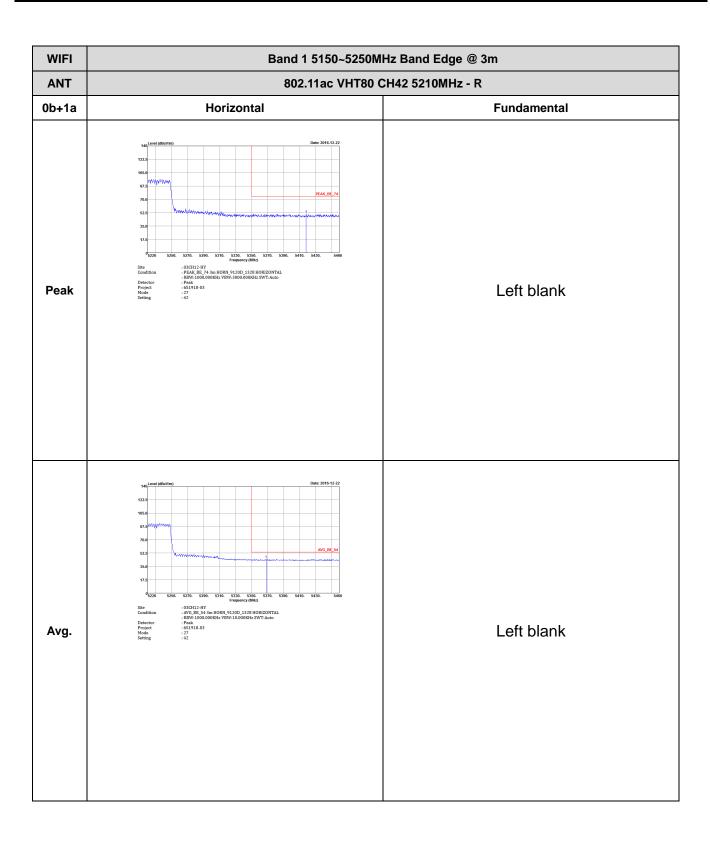


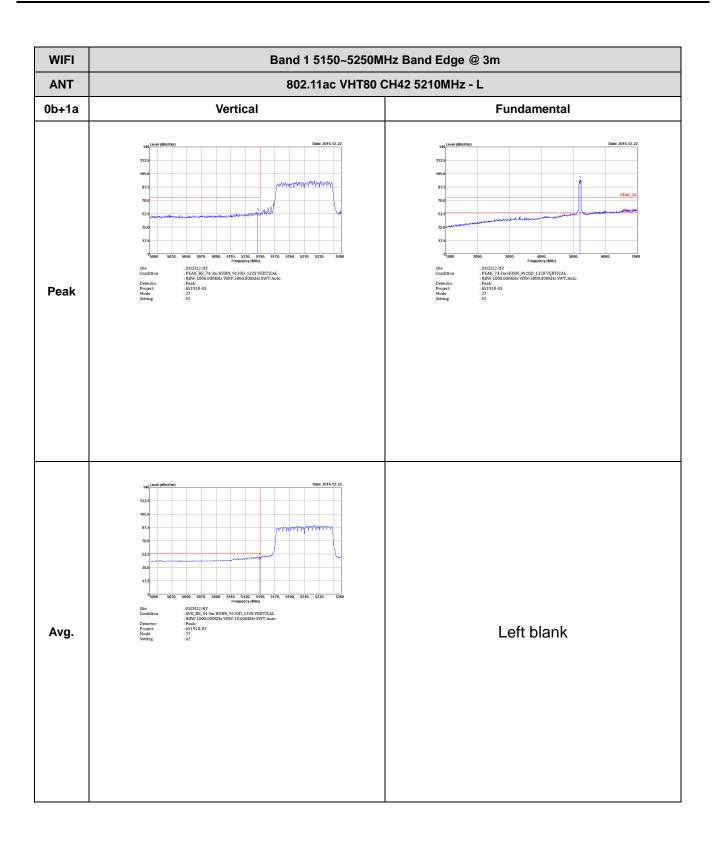
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
0b+1a	Vertical	Fundamental
Peak	122.5 105.0 170.0 177.0	Left blank
Avg.	140, Level sells/vim)  172.3  195.8  177.5  178.9  177.5  178.0  179.0	Left blank

### Band 1 5150~5250MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978



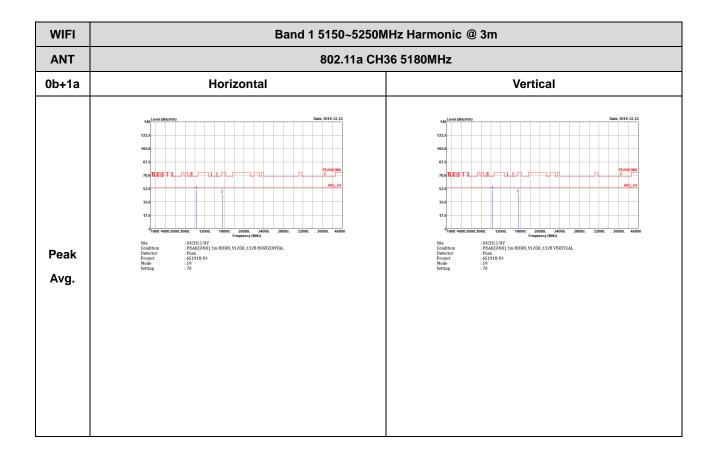


WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11ac VHT80 CH42 5210MHz - R 0b+1a Vertical **Fundamental** Peak Left blank Frequency (MHz)

: 03CH12:HY
: AVC, BE, 54 3m HORN, 9120D, 1328 VERTICAL
: REW:1000.000KHz VBW:10.000KHz SWT:Auto
: Peak
: 651918-03
: 27
: 42 Left blank Avg.

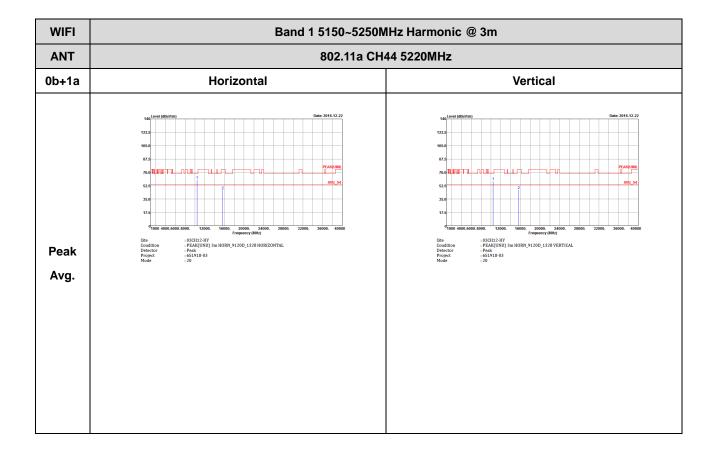
TEL: 886-3-327-3456 FAX: 886-3-328-4978

# Band 1 - 5150~5250MHz WIFI 802.11a (Harmonic @ 3m)

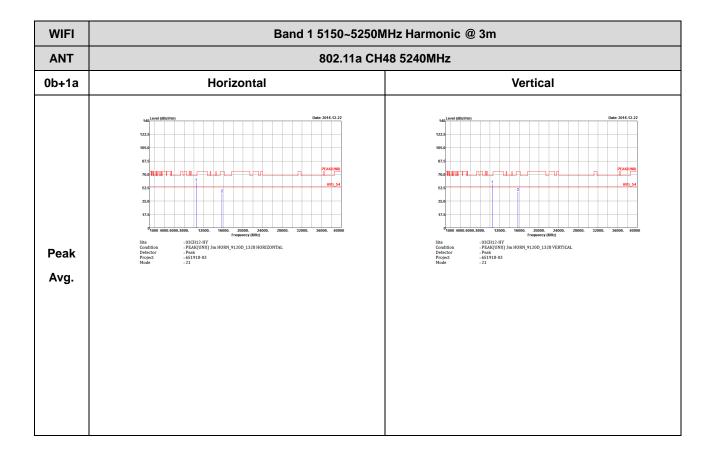


TEL: 886-3-327-3456 FAX: 886-3-328-4978

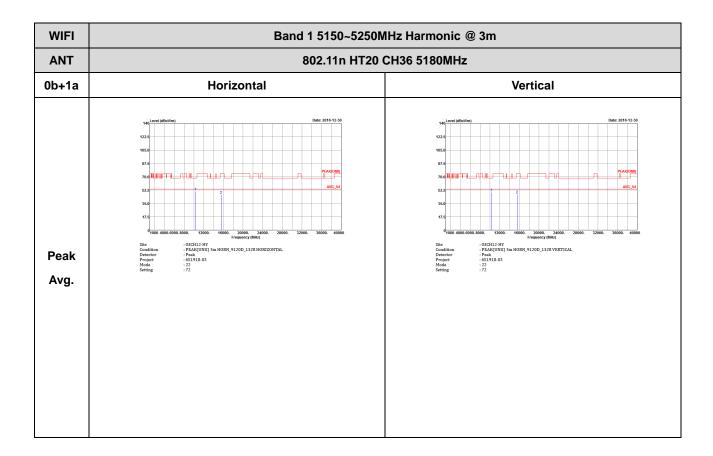




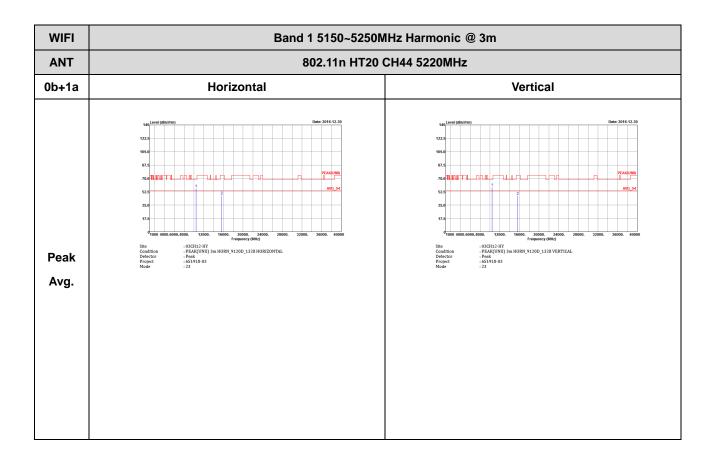


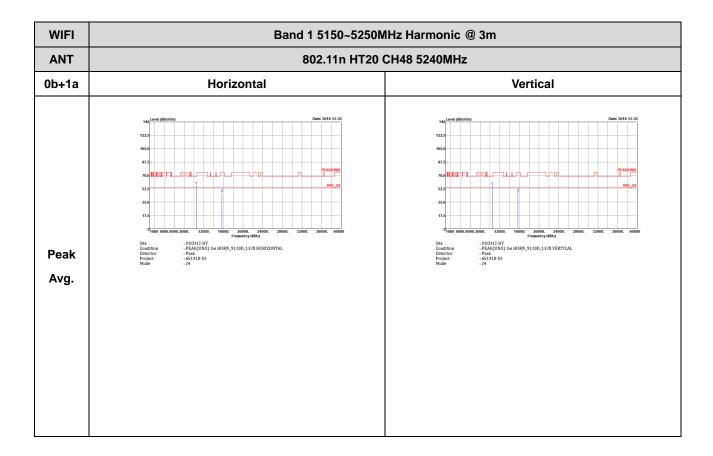


### Band 1 5150~5250MHz WIFI 802.11n HT20 (Harmonic @ 3m)

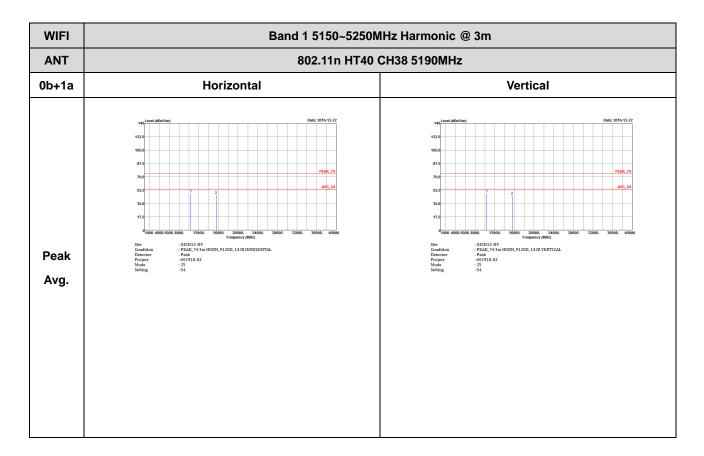


TEL: 886-3-327-3456 FAX: 886-3-328-4978

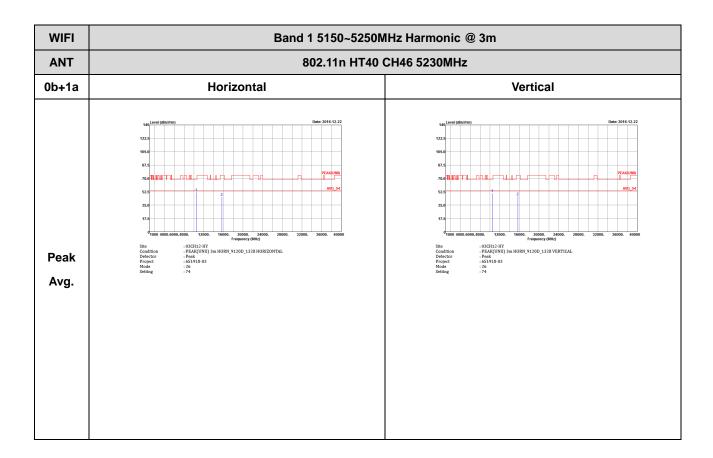




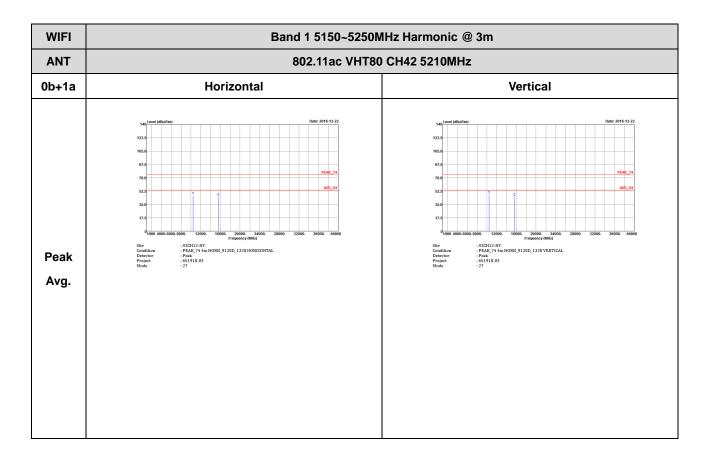
## Band 1 5150~5250MHz WIFI 802.11n HT40 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

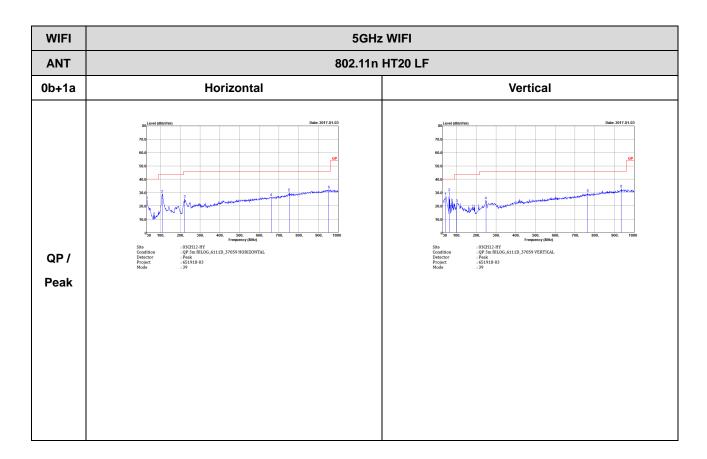


### Band 1 5150~5250MHz WIFI 802.11ac VHT80 (Harmonic @ 3m)



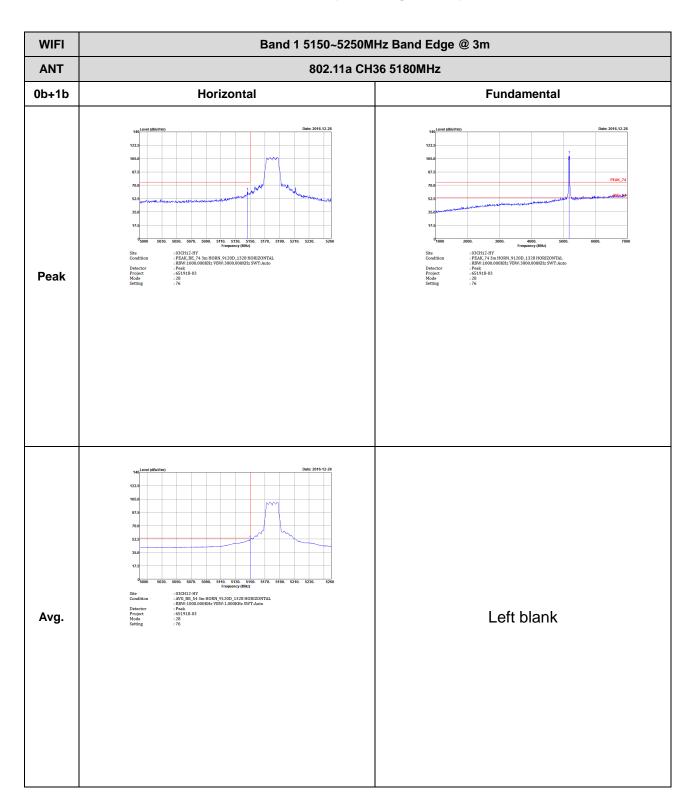
TEL: 886-3-327-3456 FAX: 886-3-328-4978

# Emission below 1GHz 5GHz WIFI 802.11n HT20 (LF)

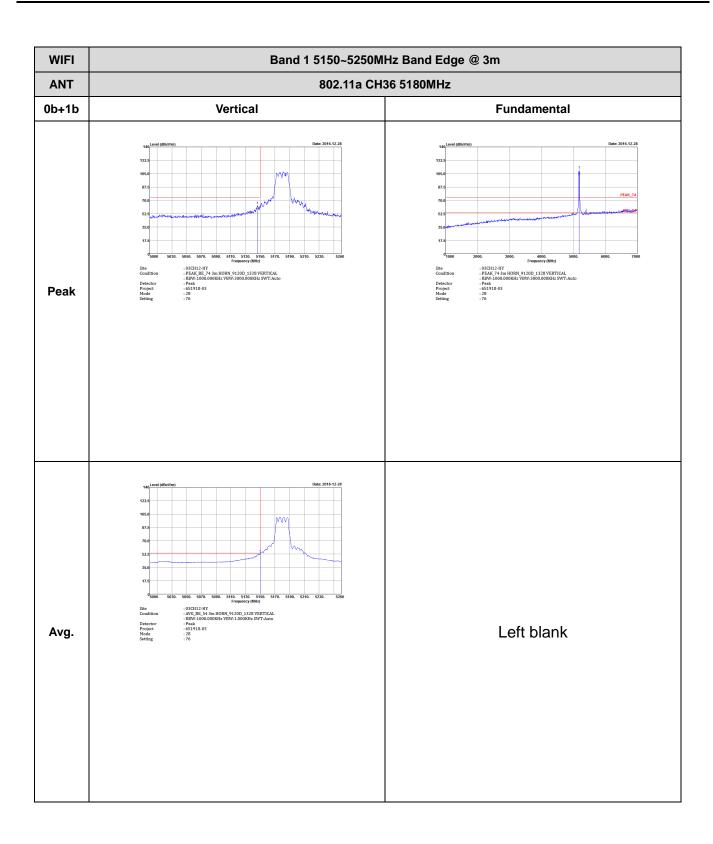


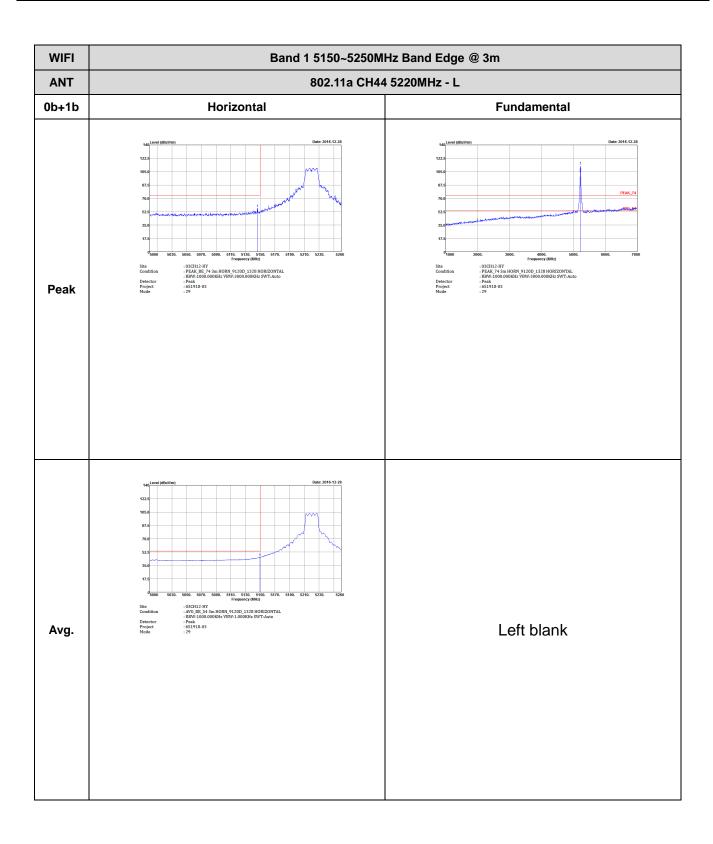
TEL: 886-3-327-3456 FAX: 886-3-328-4978

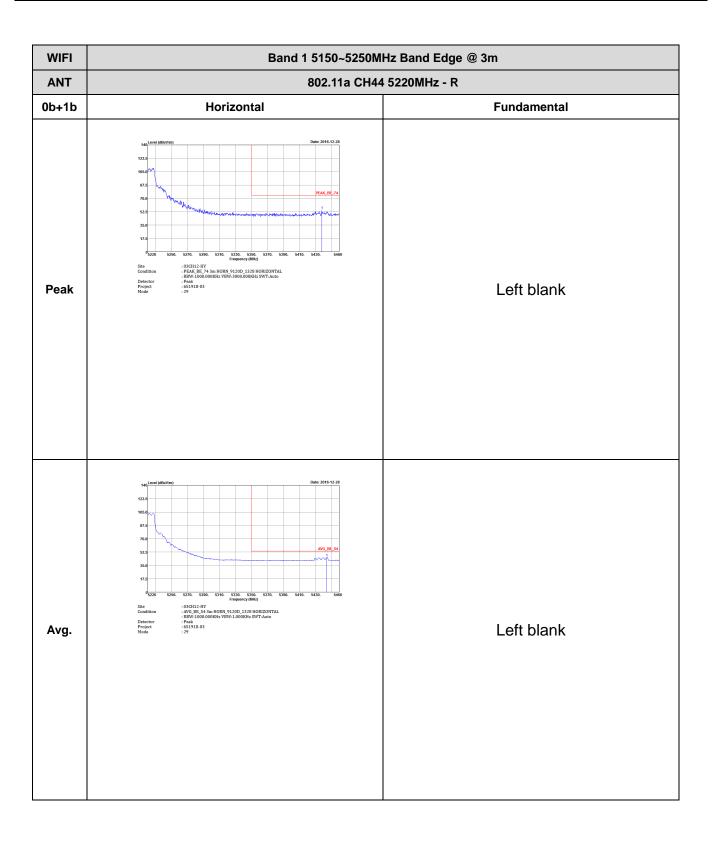
# Band 1 - 5150~5250MHz WIFI 802.11a (Band Edge @ 3m)

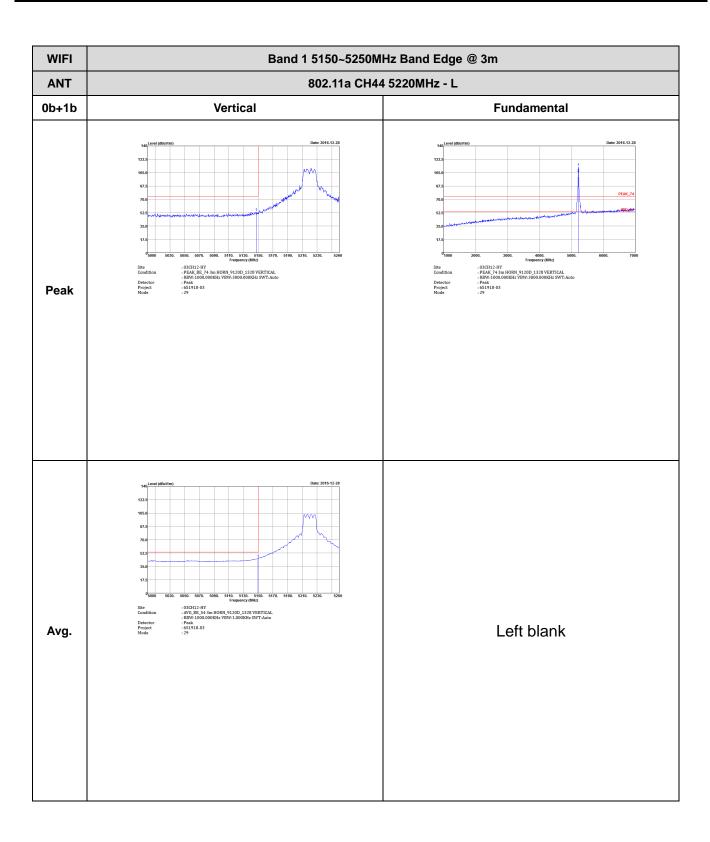


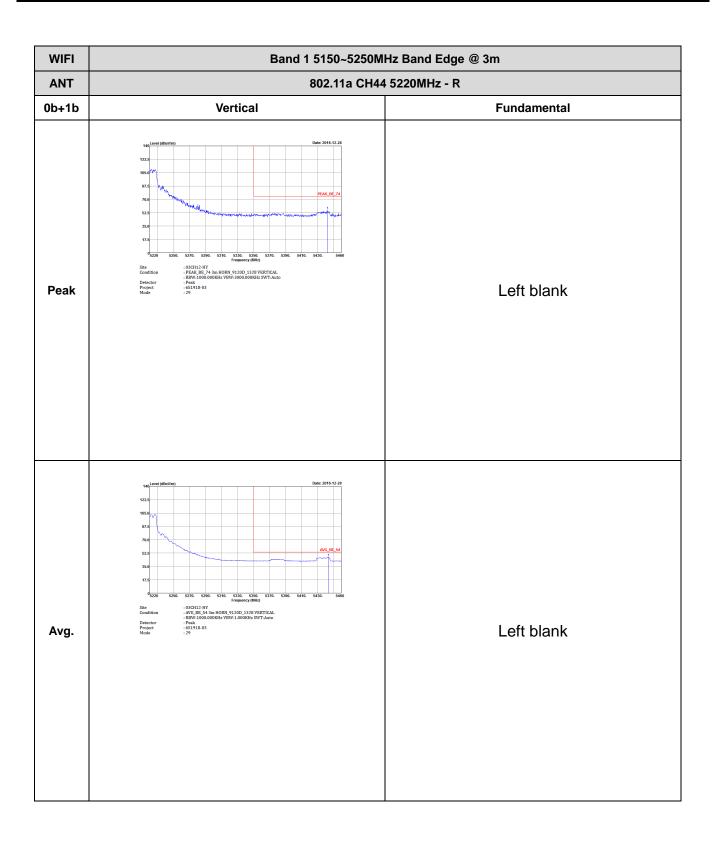
TEL: 886-3-327-3456 FAX: 886-3-328-4978

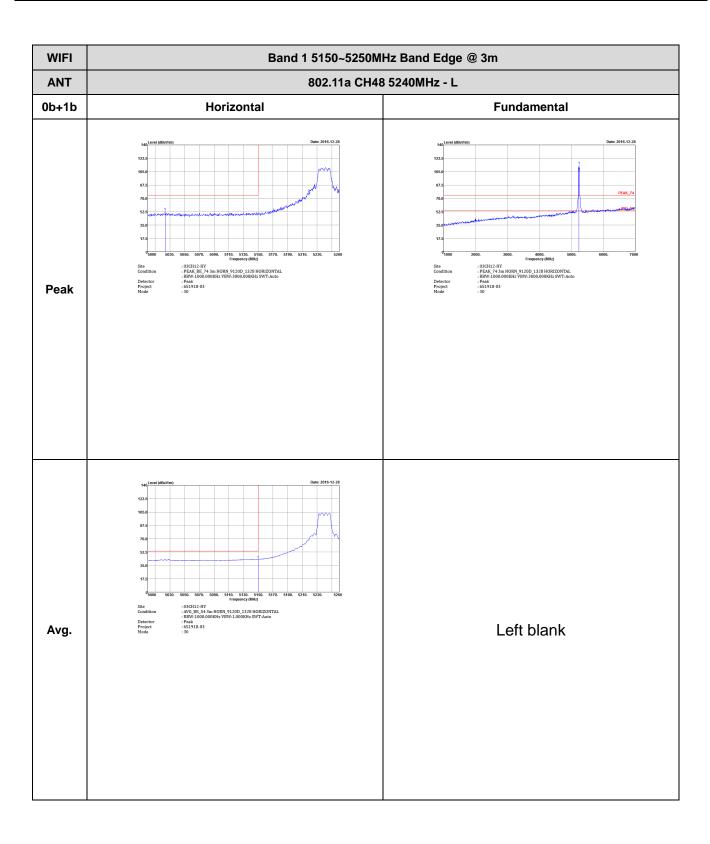


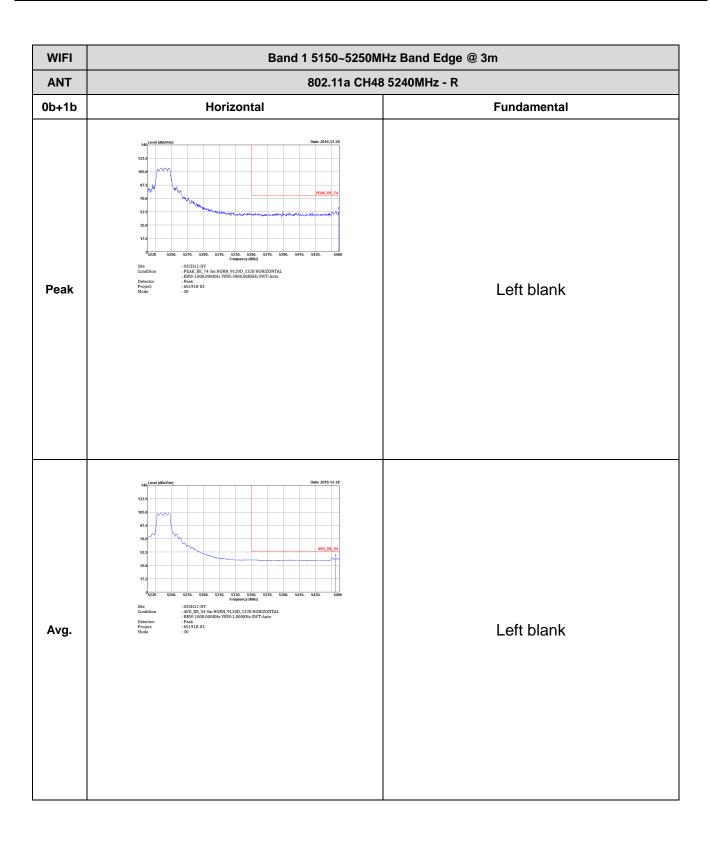


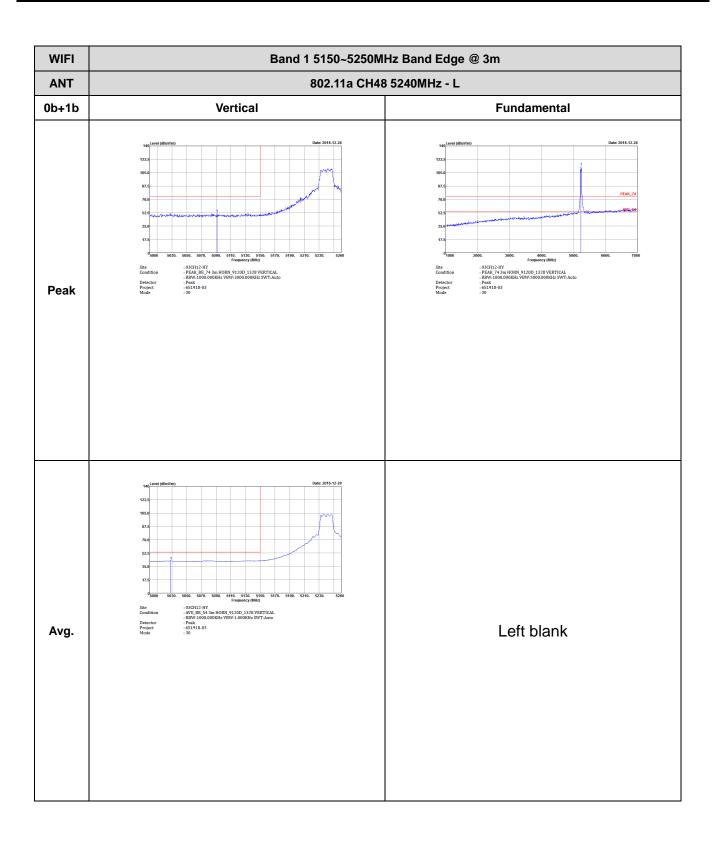


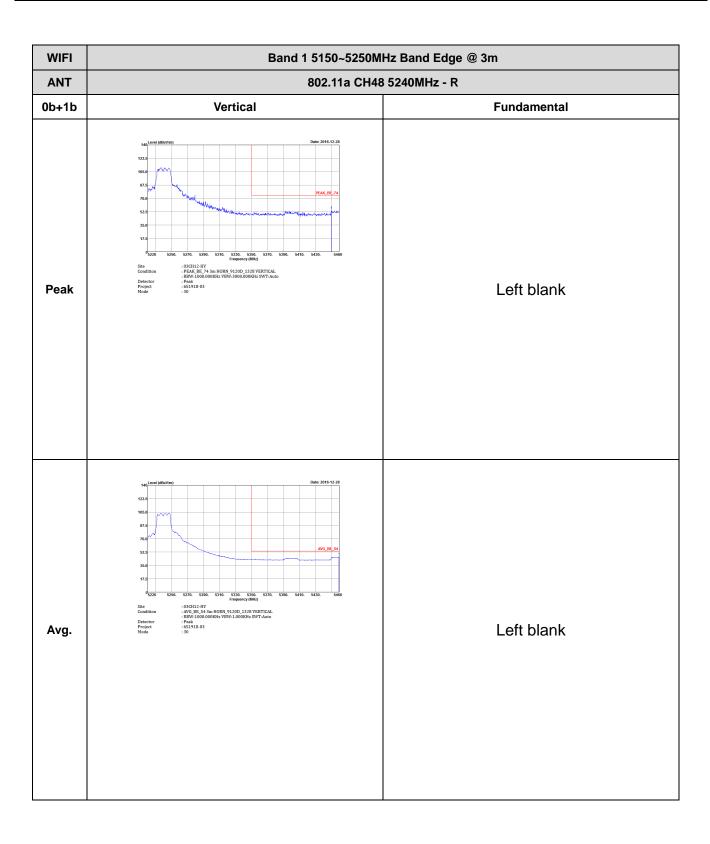




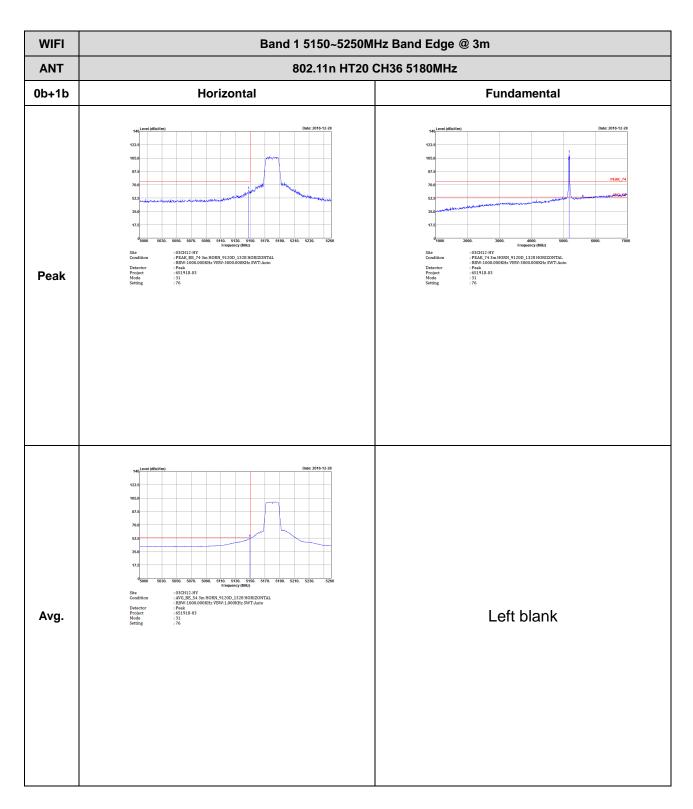




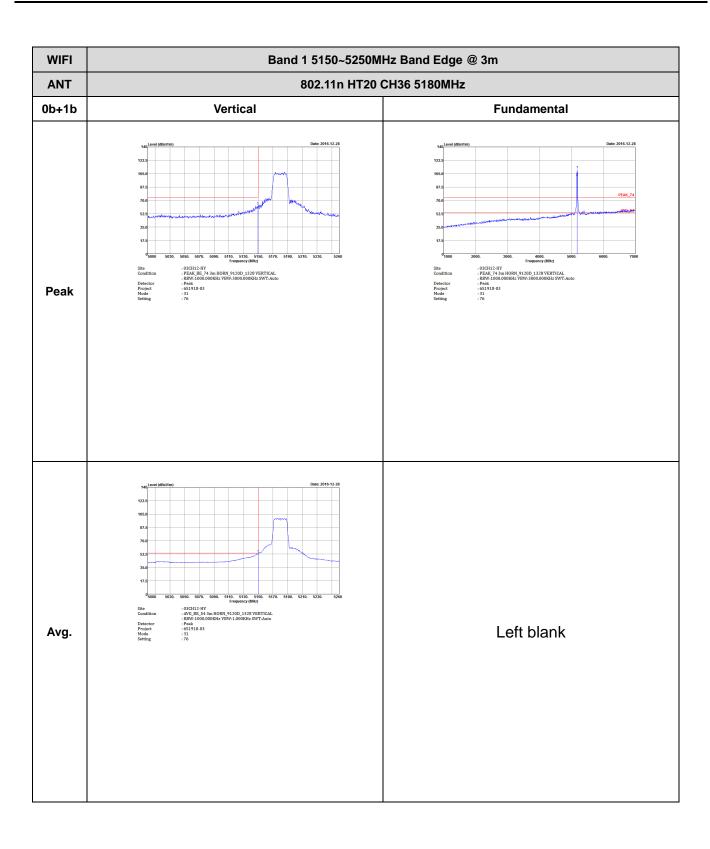


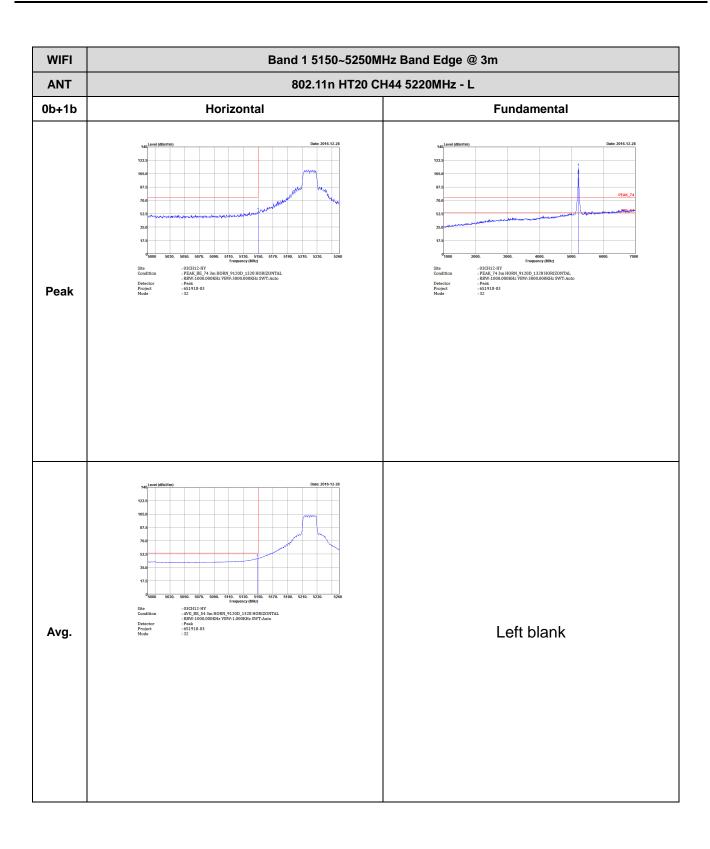


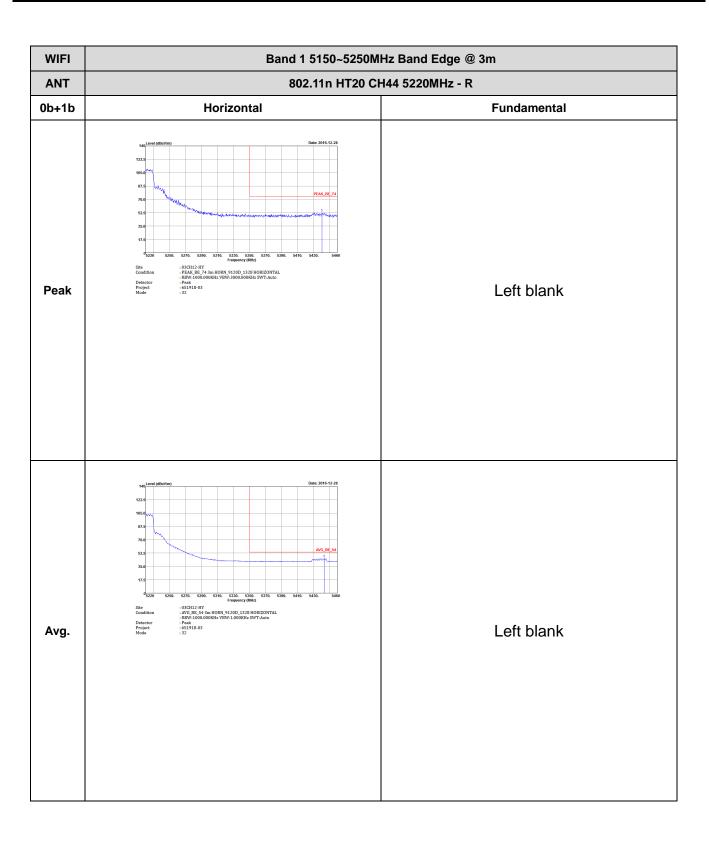
## Band 1 5150~5250MHz WIFI 802.11n HT20 (Band Edge @ 3m)

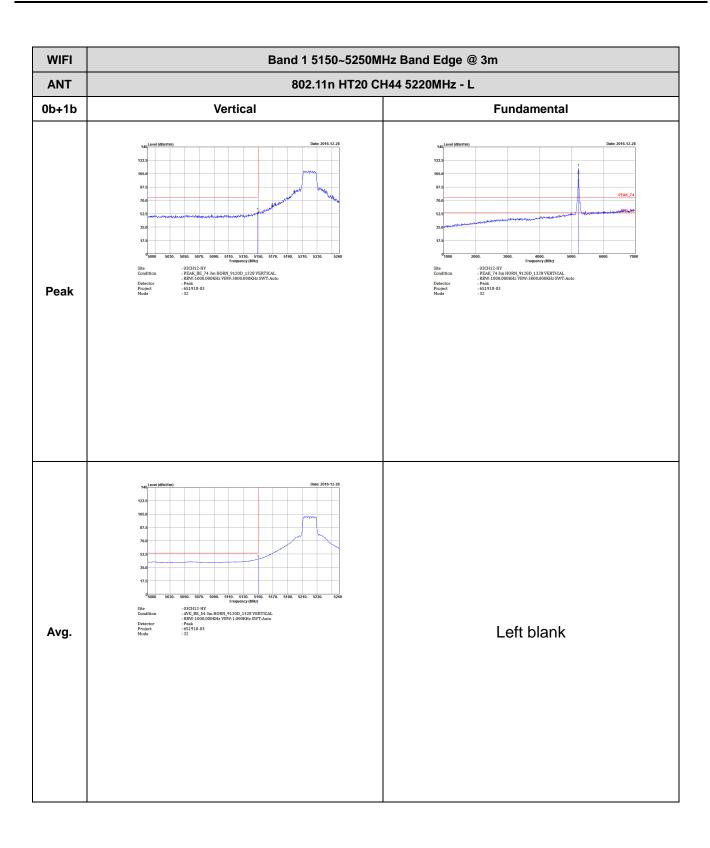


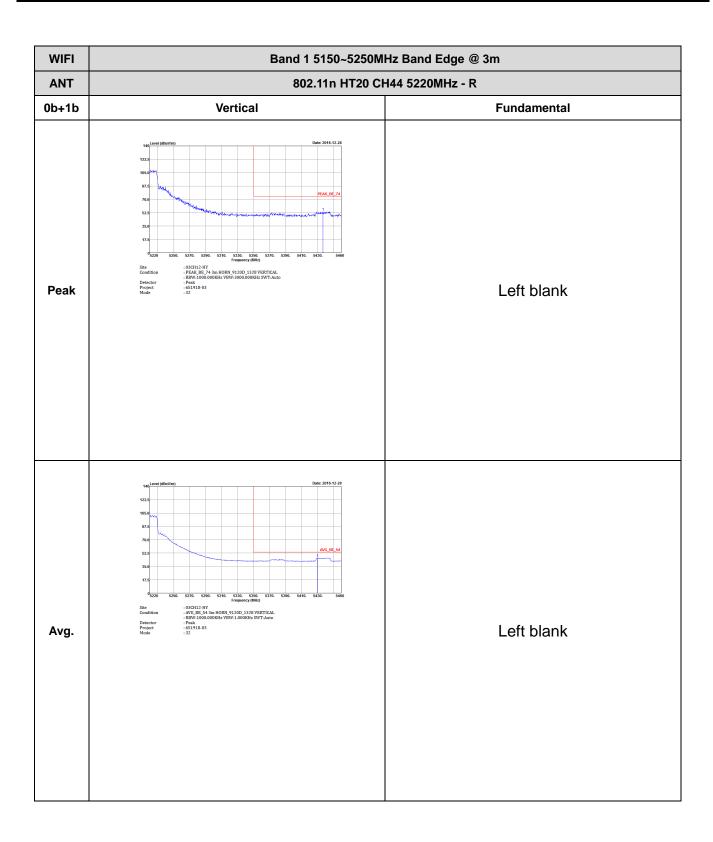
TEL: 886-3-327-3456 FAX: 886-3-328-4978

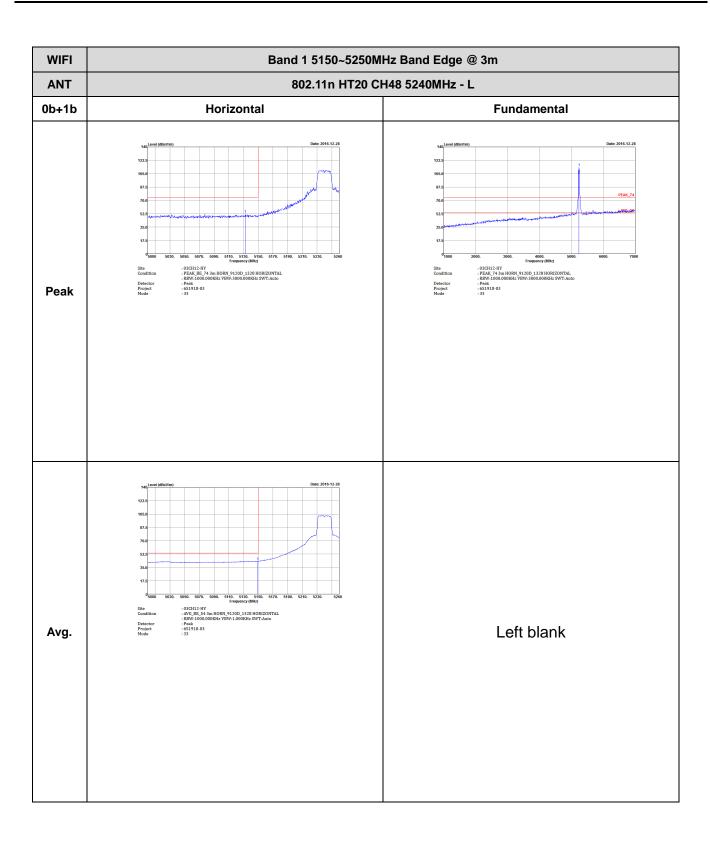






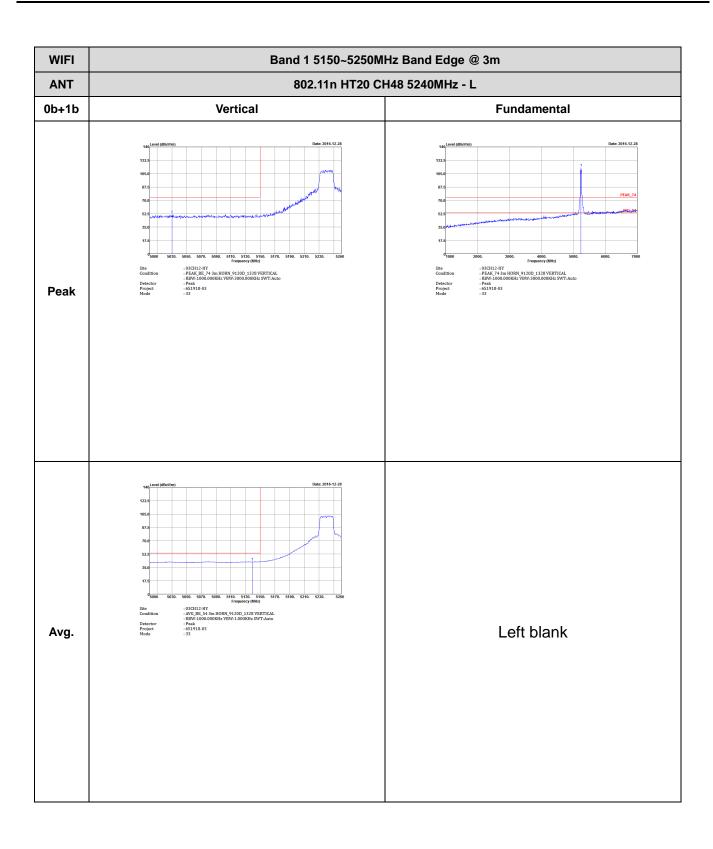


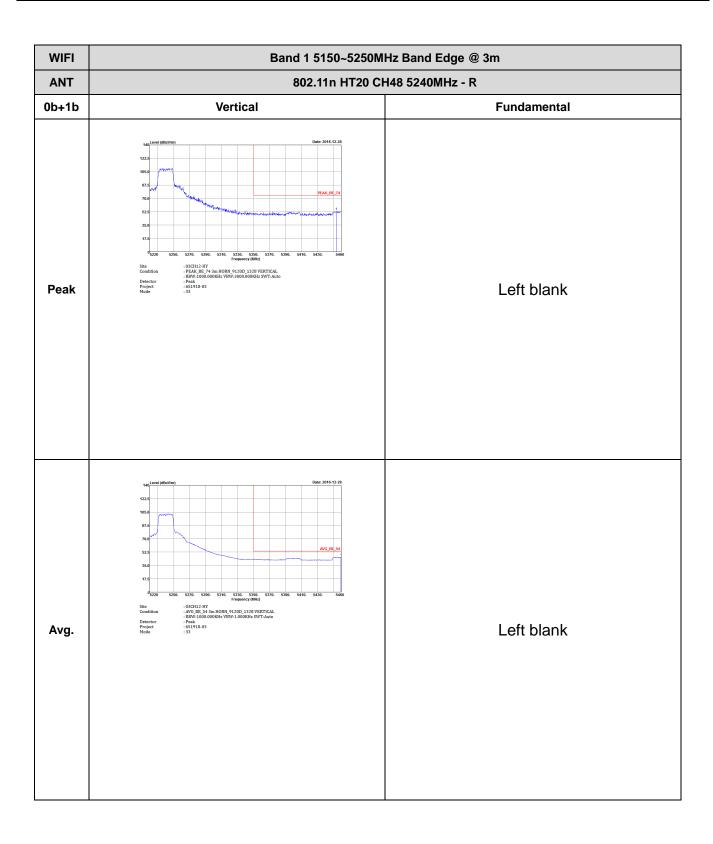




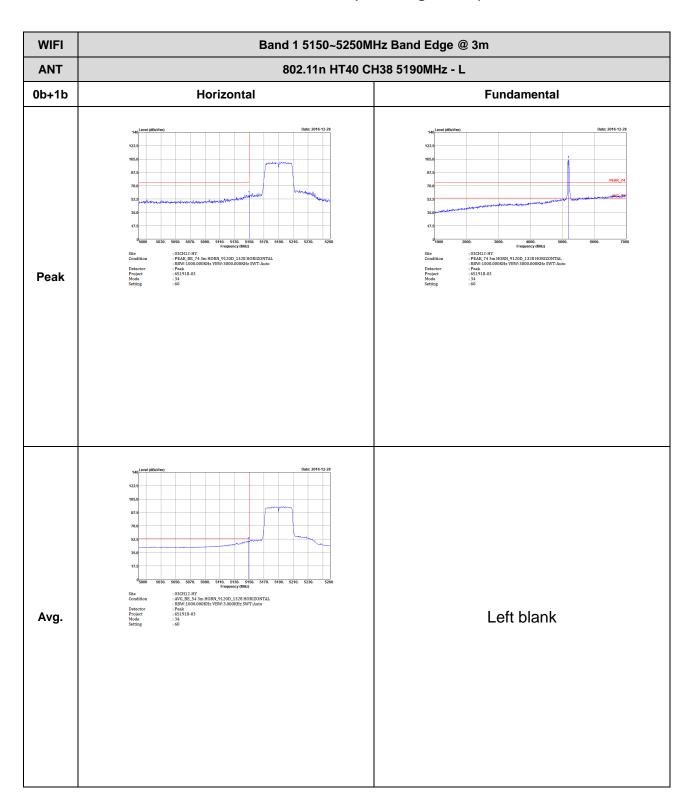
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT20 CH48 5240MHz - R 0b+1b Horizontal **Fundamental** Peak Left blank : 03CH12-HY : AVG\_BE\_54 3m HORN\_9120D\_1328 HORIZONTAL : RBW-1000.000KHz VBW:1.000KHz SWT-Auto : Peak : 651918-03 : 33 Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978





### Band 1 5150~5250MHz WIFI 802.11n HT40 (Band Edge @ 3m)

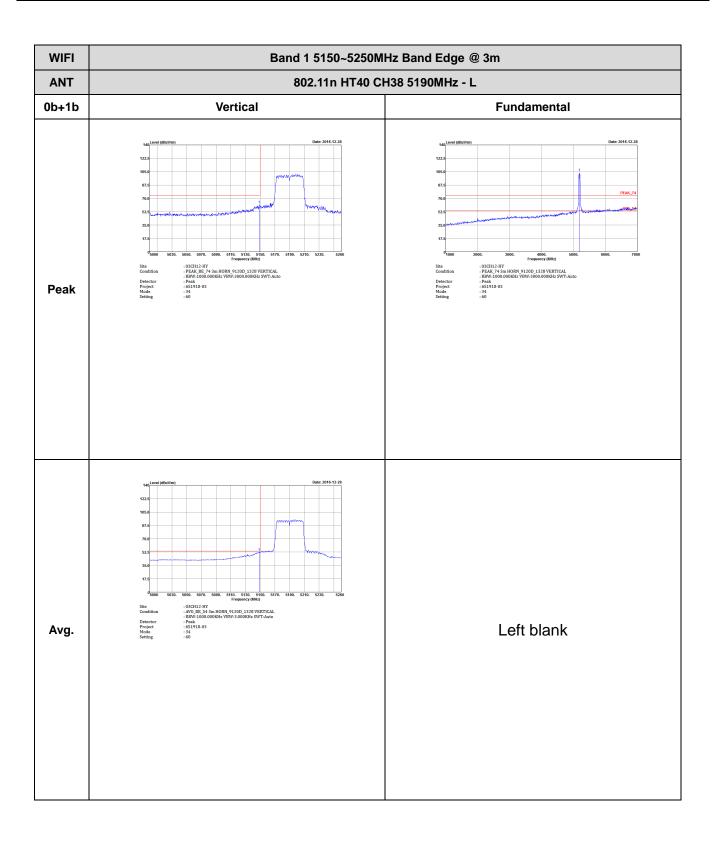


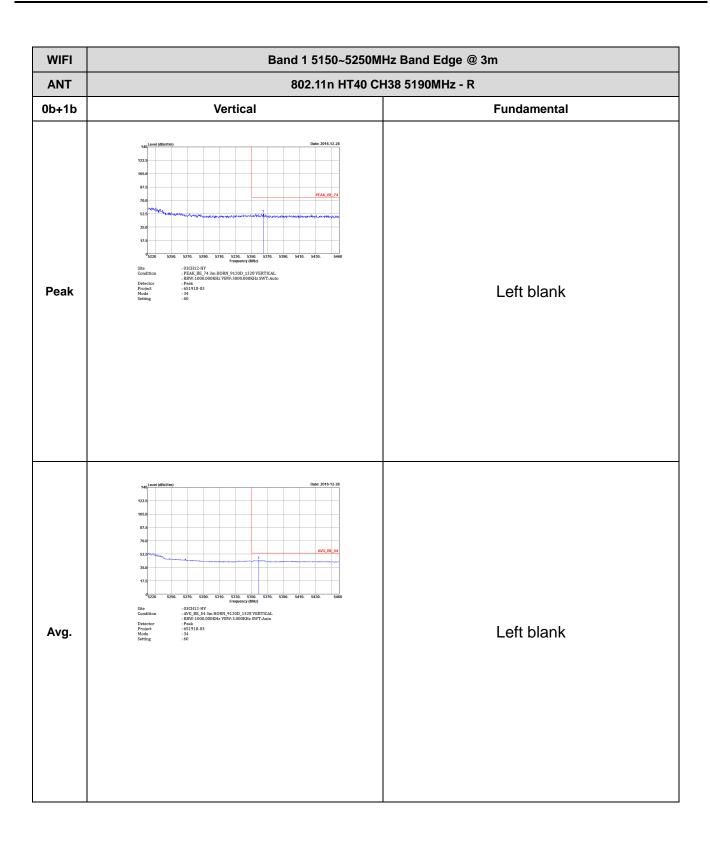
TEL: 886-3-327-3456 FAX: 886-3-328-4978

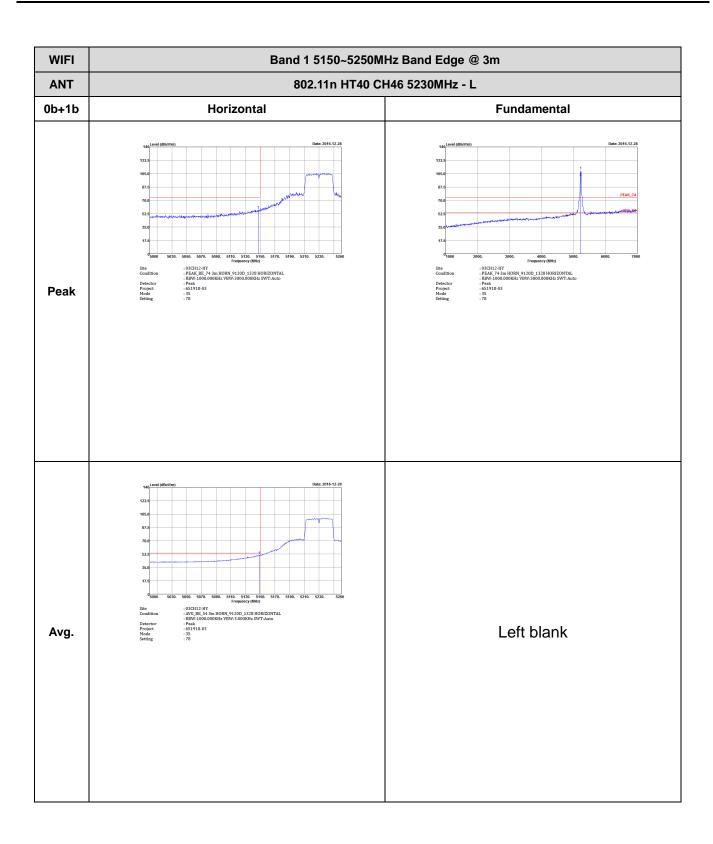
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT40 CH38 5190MHz - R 0b+1b Horizontal **Fundamental** Peak Left blank Frequency (Mitz)

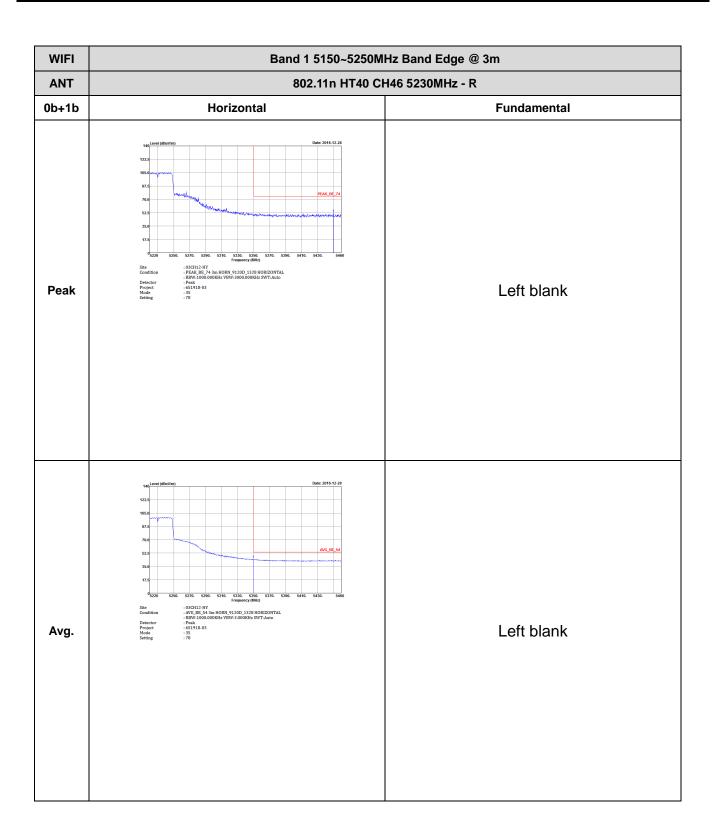
- 03CH12-HY
- AVC, BE, 54 3m HORN, 9120D, 1328 HORIZONTAL
- RBW:1000.000KHz VBW:3.000KHz SWT:Auto
- Peak
- 651918-03
- 34
- 60 Left blank Avg.

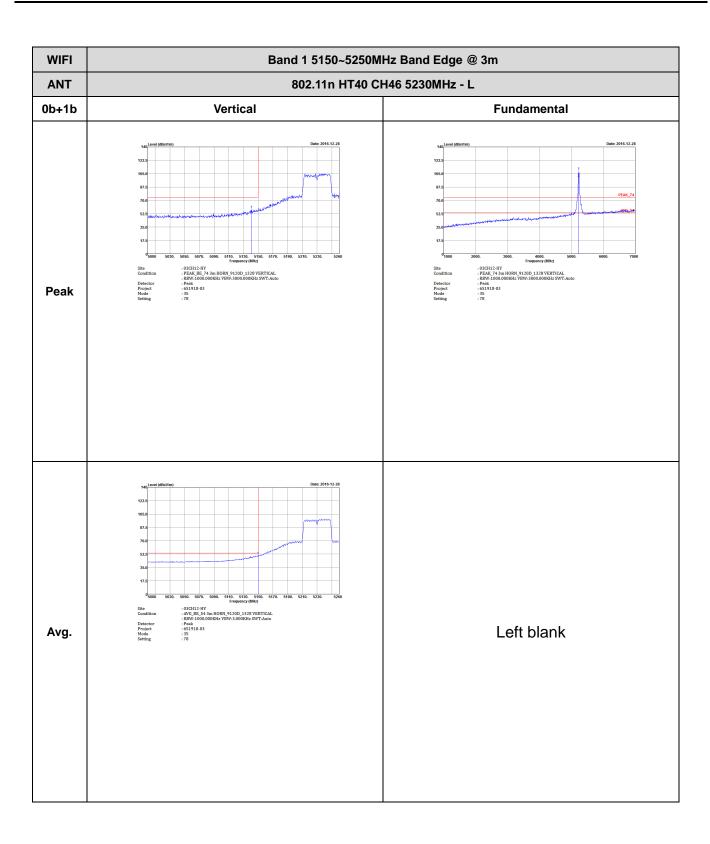
TEL: 886-3-327-3456 FAX: 886-3-328-4978

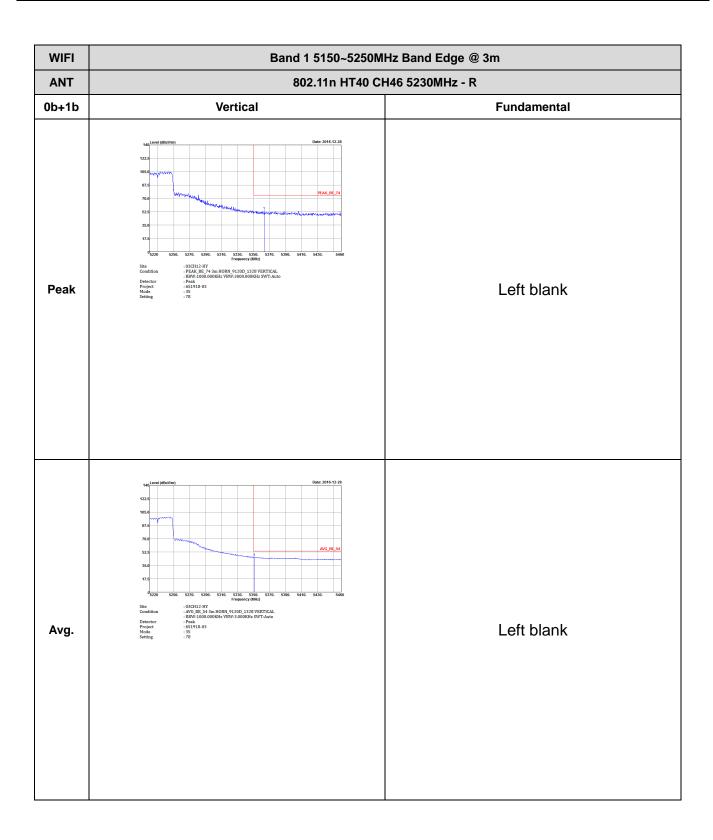




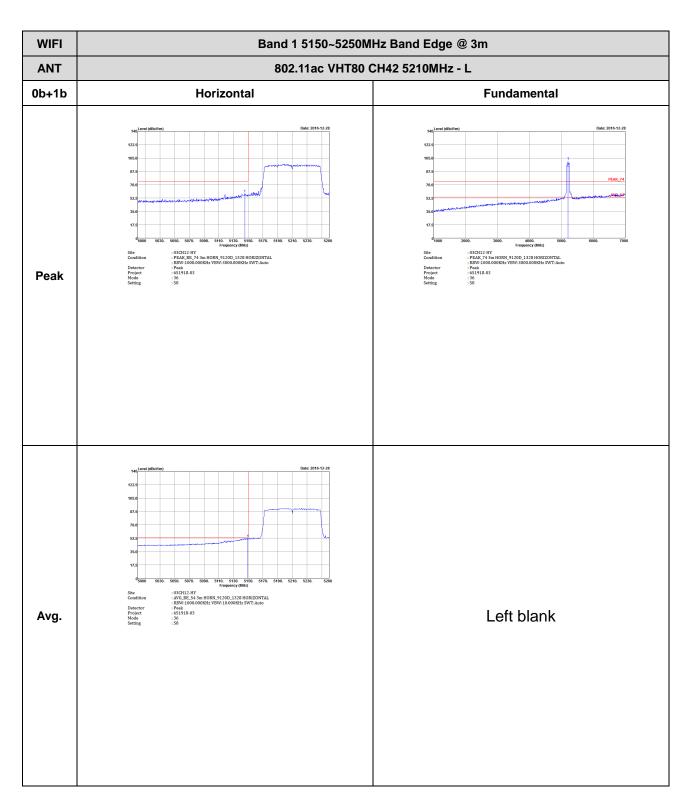








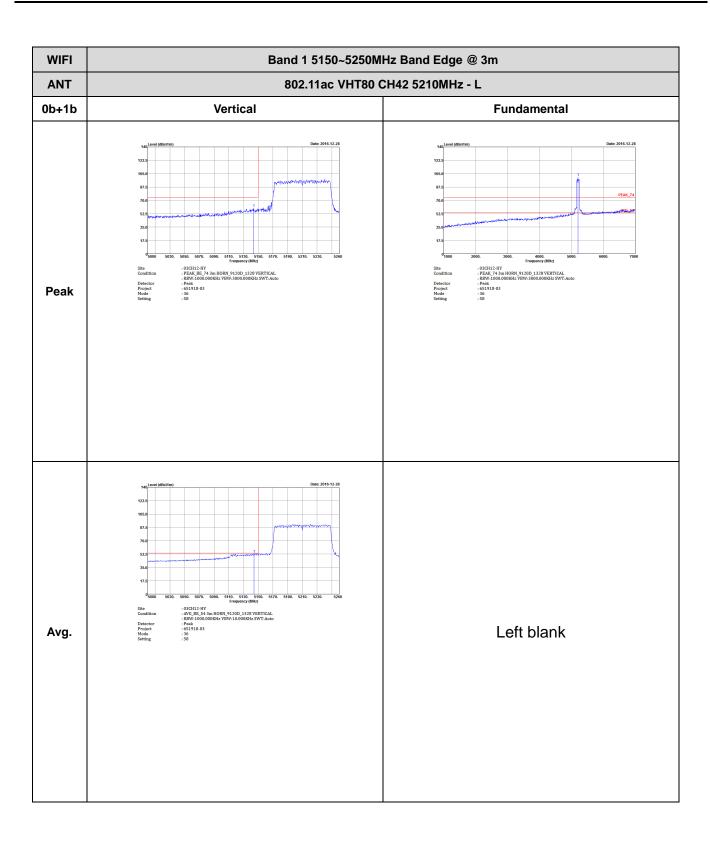
## Band 1 5150~5250MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)



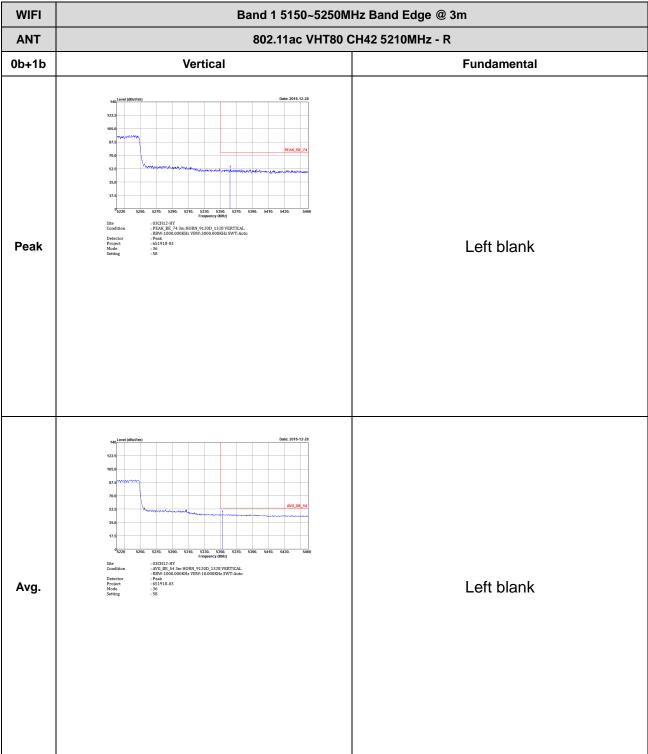
TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11ac VHT80 CH42 5210MHz - R 0b+1b Horizontal **Fundamental** Peak Left blank 03CH12-HY AVC\_BE\_54 3m HORN\_9120D\_1328 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Peak 651918-03 36 36 Left blank Avg.

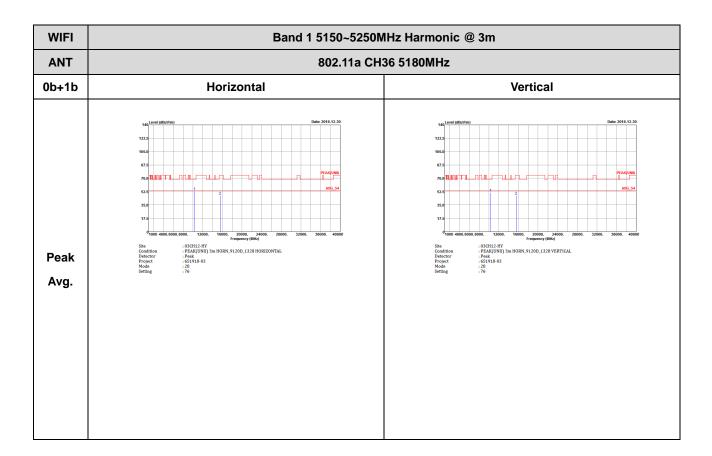
TEL: 886-3-327-3456 FAX: 886-3-328-4978



FCC RF Test Report	Report No. : FR651918-03E

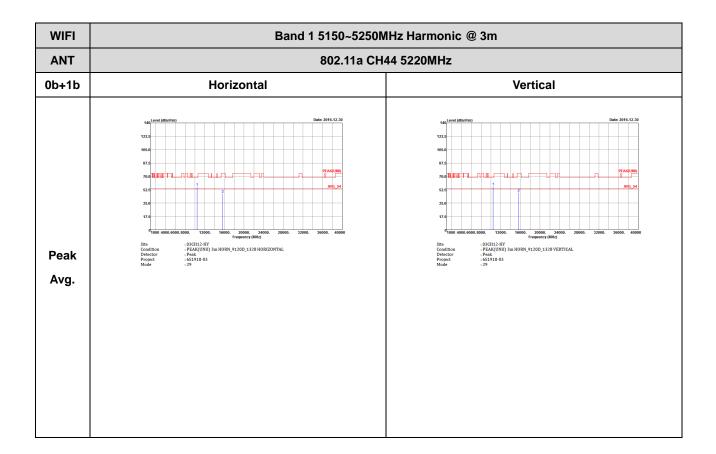


## Band 1 - 5150~5250MHz WIFI 802.11a (Harmonic @ 3m)

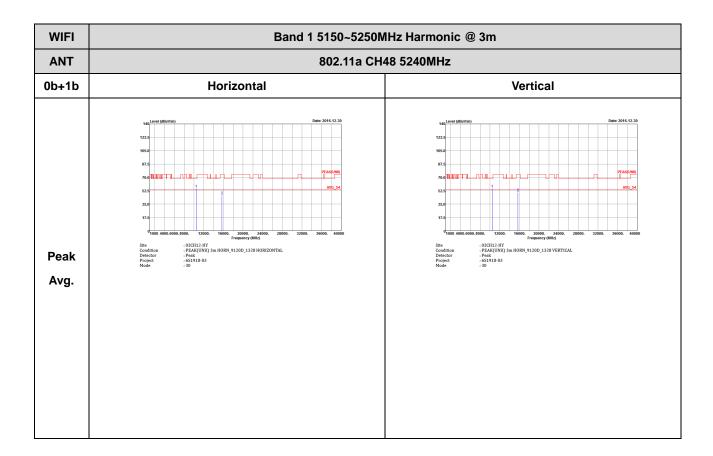


TEL: 886-3-327-3456 FAX: 886-3-328-4978

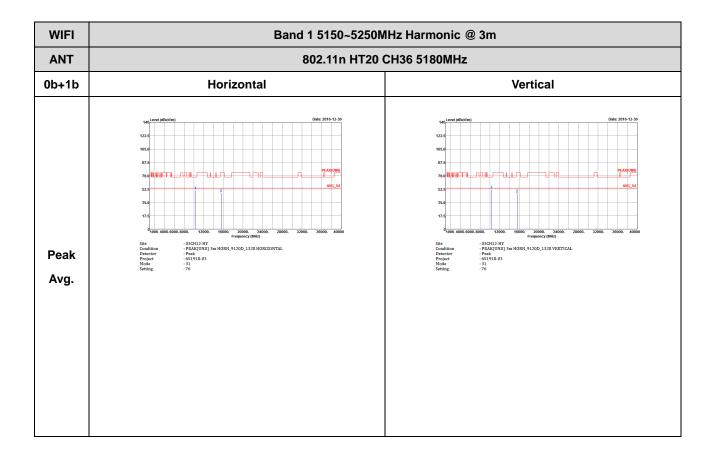






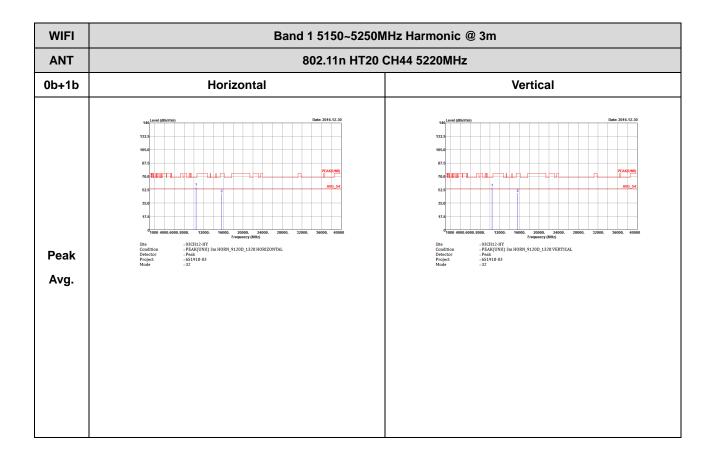


## Band 1 5150~5250MHz WIFI 802.11n HT20 (Harmonic @ 3m)

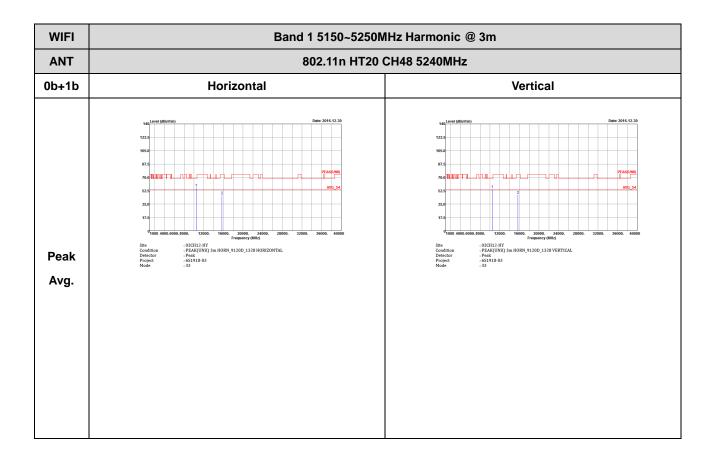


TEL: 886-3-327-3456 FAX: 886-3-328-4978

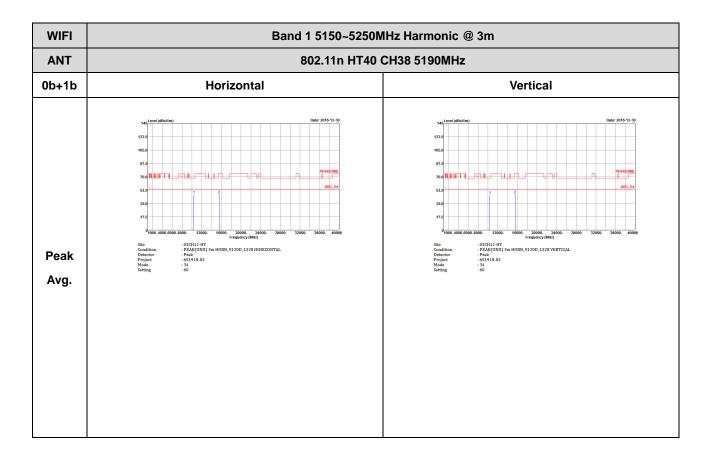






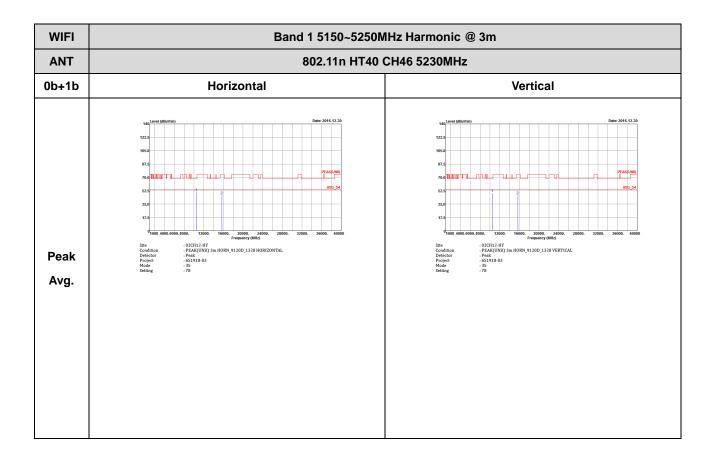


## Band 1 5150~5250MHz WIFI 802.11n HT40 (Harmonic @ 3m)

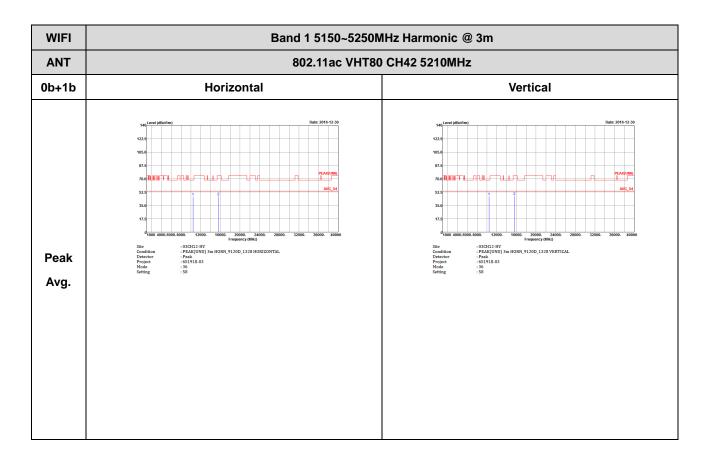


TEL: 886-3-327-3456 FAX: 886-3-328-4978



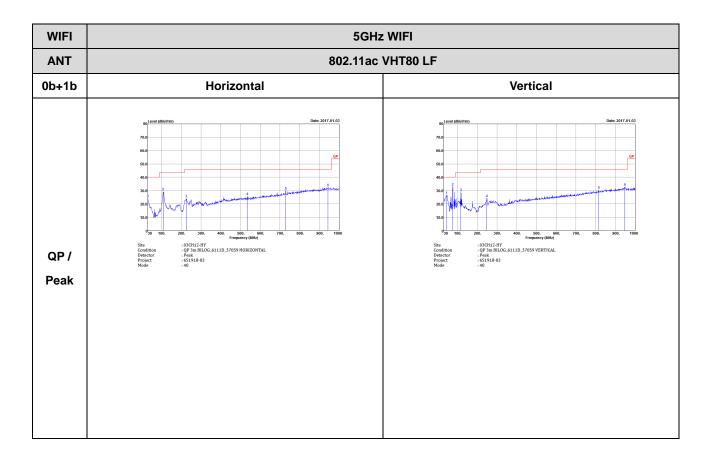


## Band 1 5150~5250MHz WIFI 802.11ac VHT80 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

## Emission below 1GHz 5GHz WIFI 802.11ac VHT80 (LF)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

# Appendix D. Duty Cycle Plots

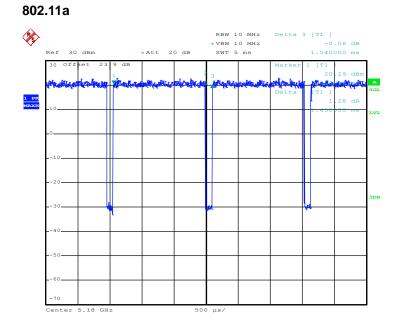
#### <MIMO Ant 0a+1a>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0a+1a	5GHz 802.11a for Ant. 0a	92.86	1430	0.70	1kHz
0a+1a	5GHz 802.11n HT20 for Ant. 0a	92.41	1340	0.75	1kHz
0a+1a	5GHz 802.11n HT40 for Ant. 0a	86.84	660	1.52	3kHz
0a+1a	5GHz 802.11n AC20 for Ant. 0a	92.41	1340	0.75	1kHz
0a+1a	5GHz 802.11n AC40 for Ant. 0a	87.01	670	1.49	3kHz
0a+1a	5GHz 802.11n AC80 for Ant. 0a	76.85	332	3.01	10kHz
0a+1a	5GHz 802.11a for Ant. 1a	92.86	1430	0.70	1kHz
0a+1a	5GHz 802.11n HT20 for Ant. 1a	92.41	1340	0.75	1kHz
0a+1a	5GHz 802.11n HT40 for Ant. 1a	85.71	660	1.52	3kHz
0a+1a	5GHz 802.11n AC20 for Ant. 1a	92.41	1340	0.75	1kHz
0a+1a	5GHz 802.11n AC40 for Ant. 1a	85.71	660	1.52	3kHz
0a+1a	5GHz 802.11n AC80 for Ant. 1a	75.93	328	3.05	10kHz

TEL: 886-3-327-3456 FAX: 886-3-328-4978

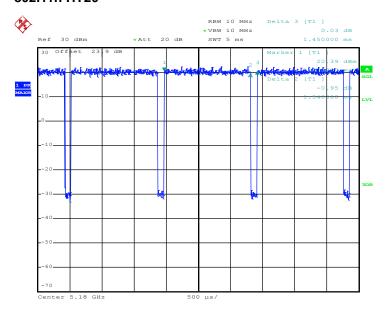
Report No.: FR651918-03E

## <MIMO Ant 0a+1a(0a)>



Date: 20.DEC.2016 00:46:33

#### 802.11n HT20

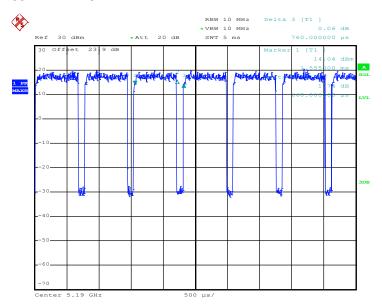


Date: 20.DEC.2016 00:52:33

TEL: 886-3-327-3456 FAX: 886-3-328-4978

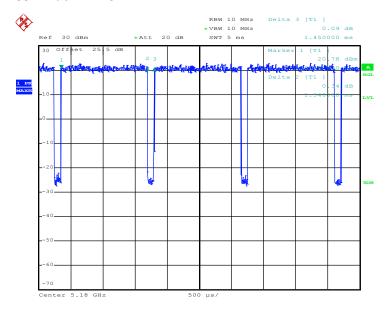


### 802.11n HT40



Date: 20.DEC.2016 01:00:15

### 802.11ac VHT20

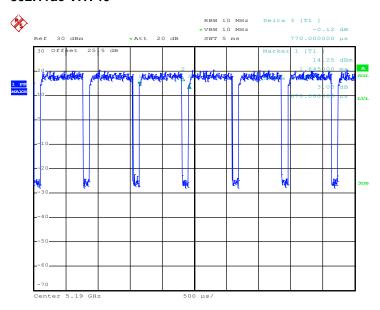


Date: 21.DEC.2016 20:43:44

TEL: 886-3-327-3456 FAX: 886-3-328-4978

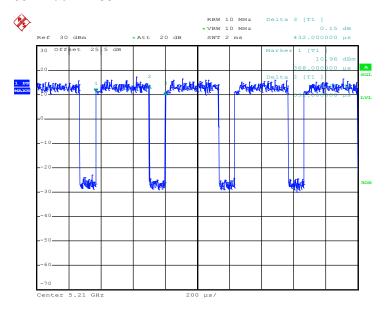


### 802.11ac VHT40



Date: 21.DEC.2016 20:49:37

### 802.11ac VHT80



Date: 21.DEC.2016 20:54:27

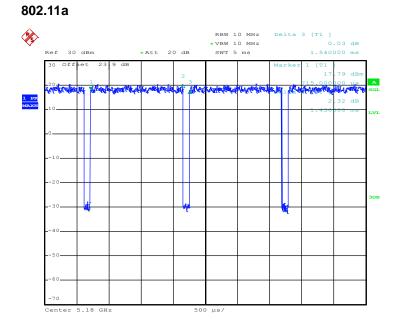
Page Number

: D4 of D28

Report No.: FR651918-03E

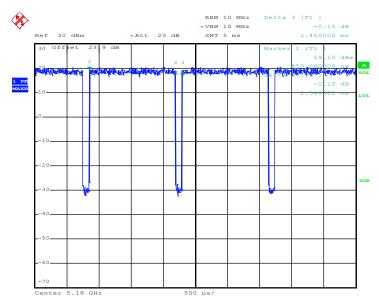
TEL: 886-3-327-3456 FAX: 886-3-328-4978

# <MIMO Ant 0a+1a(1a)>



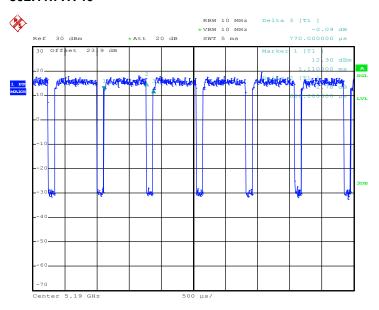
Date: 20.DEC.2016 00:44:34

#### 802.11n HT20



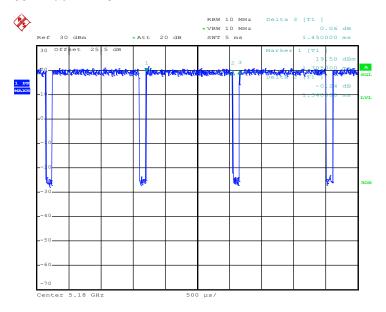
Date: 20.DEC.2016 00:54:00

TEL: 886-3-327-3456 FAX: 886-3-328-4978



Date: 20.DEC.2016 01:00:40

#### 802.11ac VHT20

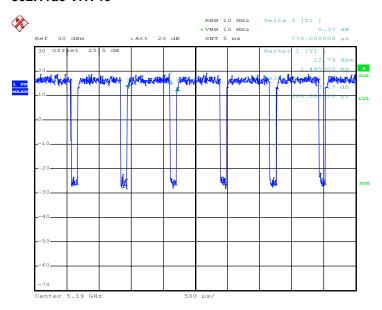


Date: 21.DEC.2016 20:45:22

TEL: 886-3-327-3456 FAX: 886-3-328-4978

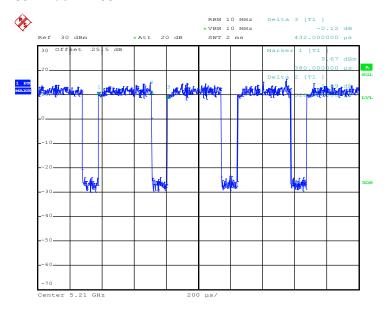
### Report No.: FR651918-03E

#### 802.11ac VHT40



Date: 21.DEC.2016 20:51:50

#### 802.11ac VHT80



Date: 21.DEC.2016 20:55:23

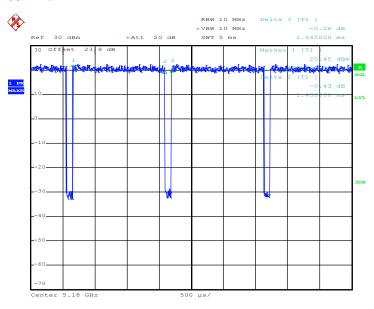
#### <MIMO Ant 0a+1b>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0a+1b	5GHz 802.11a for Ant 0a	92.86	1430	0.70	1kHz
0a+1b	5GHz 802.11n HT20 for Ant 0a	92.41	1340	0.75	1kHz
0a+1b	5GHz 802.11n HT40 for Ant 0a	85.71	660	1.52	3kHz
0a+1b	5GHz 802.11n AC20 for Ant 0a	92.44	1345	0.74	1kHz
0a+1b	5GHz 802.11n AC40 for Ant 0a	85.71	660	1.52	3kHz
0a+1b	5GHz 802.11n AC80 for Ant 0a	75.93	328	3.05	10kHz
0a+1b	5GHz 802.11a for Ant 1b	93.51	1440	0.69	1kHz
0a+1b	5GHz 802.11n HT20 for Ant 1b	93.06	1340	0.75	1kHz
0a+1b	5GHz 802.11n HT40 for Ant 1b	86.84	660	1.52	3kHz
0a+1b	5GHz 802.11n AC20 for Ant 1b	93.1	1350	0.74	1kHz
0a+1b	5GHz 802.11n AC40 for Ant 1b	85.9	670	1.49	3kHz
0a+1b	5GHz 802.11n AC80 for Ant 1b	76.85	332	3.01	10kHz

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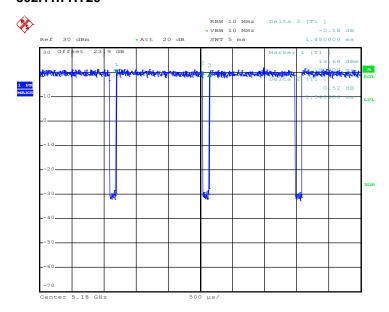
# <MIMO Ant 0a+1b(0a)>

### 802.11a



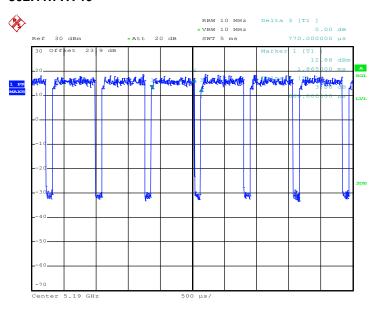
Date: 20.DEC.2016 20:59:15

#### 802.11n HT20



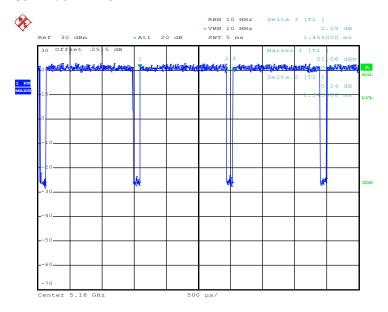
Date: 20.DEC.2016 21:06:20





Date: 20.DEC.2016 21:45:49

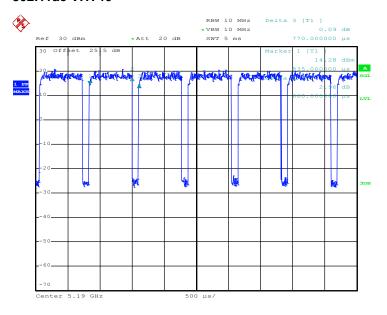
#### 802.11ac VHT20



Date: 21.DEC.2016 22:41:50

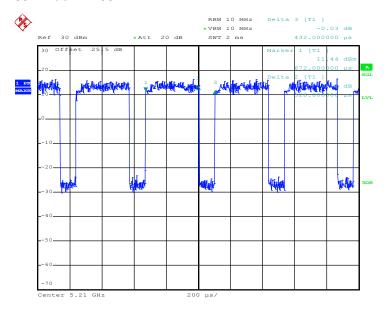
TEL: 886-3-327-3456 FAX: 886-3-328-4978





Date: 21.DEC.2016 22:56:06

#### 802.11ac VHT80

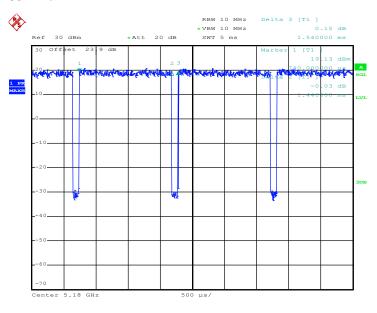


Date: 21.DEC.2016 22:59:37

TEL: 886-3-327-3456 FAX: 886-3-328-4978

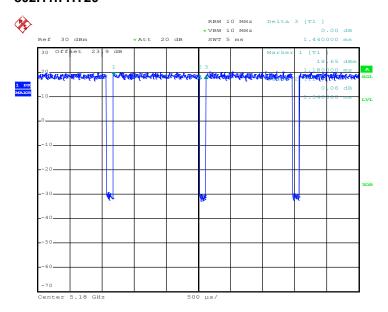
### <MIMO Ant 0a+1b(1b)>

#### 802.11a



Date: 20.DEC.2016 21:00:57

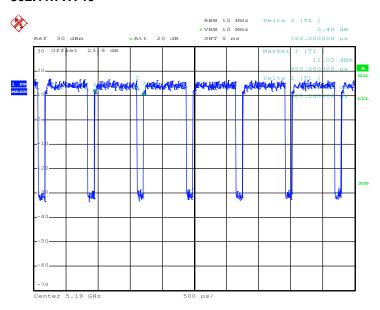
#### 802.11n HT20



Date: 20.DEC.2016 21:04:52

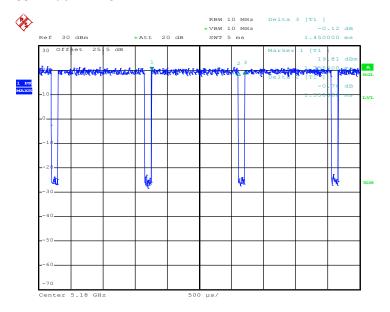
TEL: 886-3-327-3456 FAX: 886-3-328-4978





Date: 20.DEC.2016 21:46:56

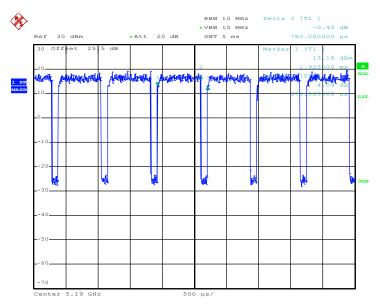
#### 802.11ac VHT20



Date: 21.DEC.2016 22:43:00

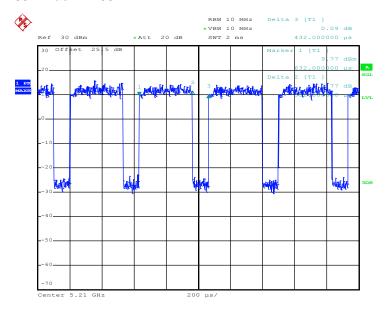
TEL: 886-3-327-3456 FAX: 886-3-328-4978





Date: 21.DEC.2016 22:57:02

#### 802.11ac VHT80



Date: 21.DEC.2016 23:00:27

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### <MIMO Ant 0b+1a>

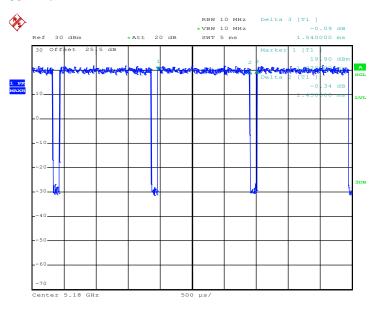
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0b+1a	5GHz 802.11a for Ant. 0b	92.86	1430	0.79	1kHz
0b+1a	5GHz 802.11n HT20 for Ant. 0b	92.41	1340	0.75	1kHz
0b+1a	5GHz 802.11n HT40 for Ant. 0b	87.01	670	1.49	3kHz
0b+1a	5GHz 802.11n AC20 for Ant. 0b	92.41	1340	0.75	1kHz
0b+1a	5GHz 802.11n AC40 for Ant. 0b	86.36	665	1.50	3kHz
0b+1a	5GHz 802.11n AC80 for Ant. 0b	75.93	328	3.05	10kHz
0b+1a	5GHz 802.11a for Ant. 1a	92.86	1430	0.70	1kHz
0b+1a	5GHz 802.11n HT20 for Ant. 1a	92.41	1340	0.75	1kHz
0b+1a	5GHz 802.11n HT40 for Ant. 1a	85.71	660	1.52	3kHz
0b+1a	5GHz 802.11n AC20 for Ant. 1a	92.47	1350	0.74	1kHz
0b+1a	5GHz 802.11n AC40 for Ant. 1a	85.71	660	1.52	3kHz
0b+1a	5GHz 802.11n AC80 for Ant. 1a	75.93	328	3.05	10kHz

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### Report No.: FR651918-03E

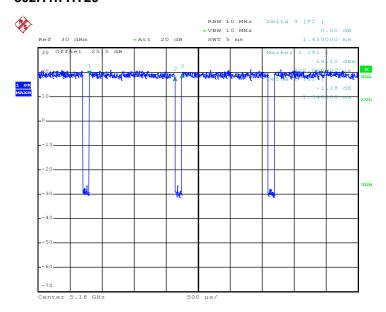
# <MIMO Ant 0b+1a(0b)>



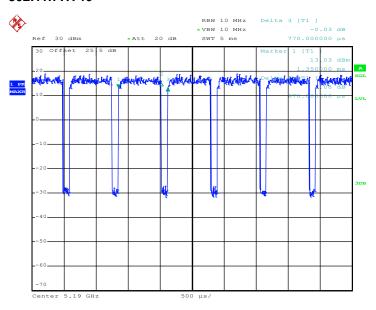


Date: 20.DEC.2016 23:50:54

#### 802.11n HT20

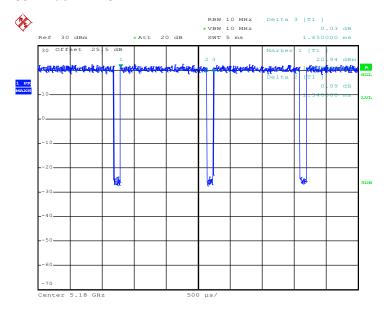


Date: 21.DEC.2016 00:00:22



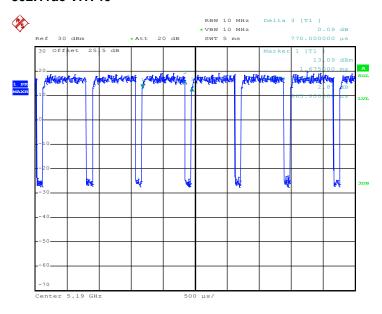
Date: 21.DEC.2016 00:06:40

#### 802.11ac VHT20



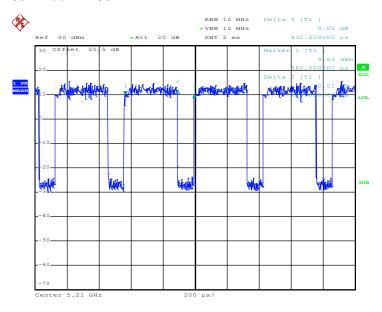
Date: 21.DEC.2016 23:35:49

TEL: 886-3-327-3456 FAX: 886-3-328-4978



Date: 21.DEC.2016 23:44:55

#### 802.11ac VHT80



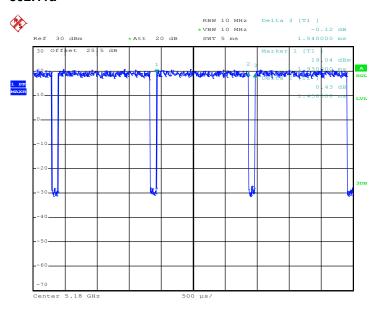
Date: 21.DEC.2016 23:48:59

TEL: 886-3-327-3456 FAX: 886-3-328-4978

### ort Report No. : FR651918-03E

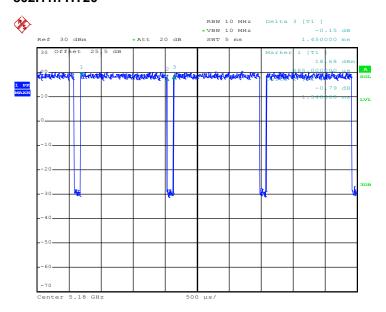
## <MIMO Ant 0b+1a(1a)>

#### 802.11a



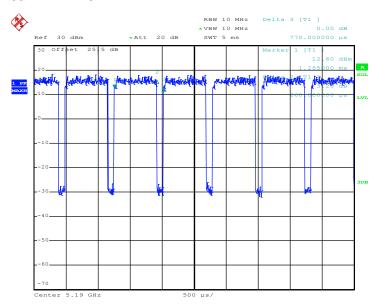
Date: 20.DEC.2016 23:52:08

#### 802.11n HT20



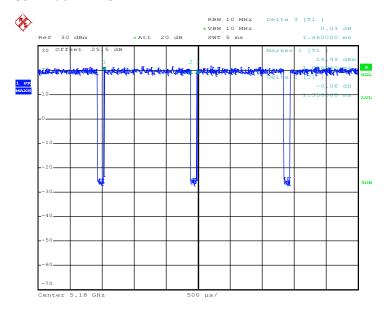
Date: 21.DEC.2016 00:01:09





Date: 21.DEC.2016 00:08:01

#### 802.11ac VHT20

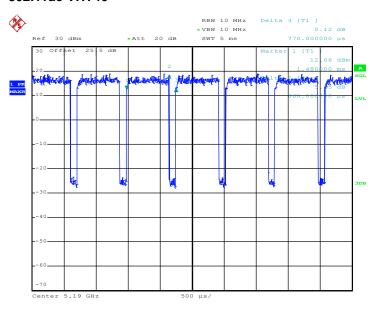


Date: 21.DEC.2016 23:36:22

TEL: 886-3-327-3456 FAX: 886-3-328-4978

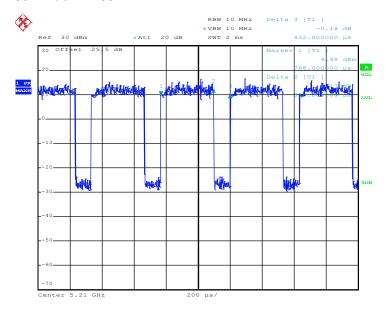
# Report No.: FR651918-03E

#### 802.11ac VHT40



Date: 21.DEC.2016 23:45:38

#### 802.11ac VHT80



Date: 21.DEC.2016 23:49:56

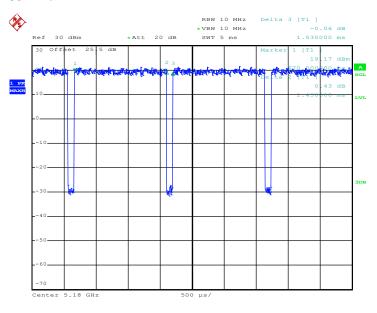
#### <MIMO Ant 0b+1b>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0b+1b	5GHz 802.11a for Ant 0b	93.46	1430	0.70	1kHz
0b+1b	5GHz 802.11n HT20 for Ant 0b	92.36	1330	0.75	1kHz
0b+1b	5GHz 802.11n HT40 for Ant 0b	87.01	670	1.49	3kHz
0b+1b	5GHz 802.11n AC20 for Ant 0b	93.1	1350	0.74	1kHz
0b+1b	5GHz 802.11n AC40 for Ant 0b	87.01	670	1.49	3kHz
0b+1b	5GHz 802.11n AC80 for Ant 0b	75.93	328	3.05	10kHz
0b+1b	5GHz 802.11a for Ant 1b	92.86	1430	0.70	1kHz
0b+1b	5GHz 802.11n HT20 for Ant 1b	92.41	1340	0.75	1kHz
0b+1b	5GHz 802.11n HT40 for Ant 1b	85.71	660	1.52	3kHz
0b+1b	5GHz 802.11n AC20 for Ant 1b	93.01	1350	0.74	1kHz
0b+1b	5GHz 802.11n AC40 for Ant 1b	82.5	660	1.53	3kHz
0b+1b	5GHz 802.11n AC80 for Ant 1b	76.85	332	3.01	10kHz

TEL: 886-3-327-3456 FAX: 886-3-328-4978

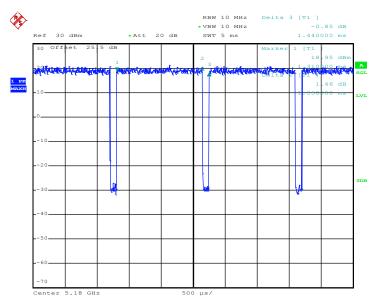
### <MIMO Ant 0b+1b(0b)>

#### 802.11a



Date: 20.DEC.2016 22:35:56

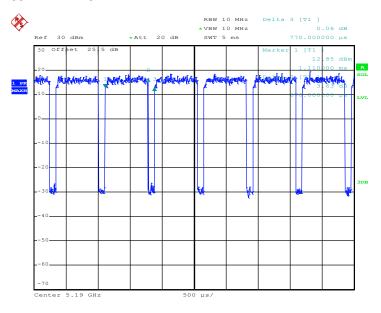
#### 802.11n HT20



Date: 20.DEC.2016 22:51:07

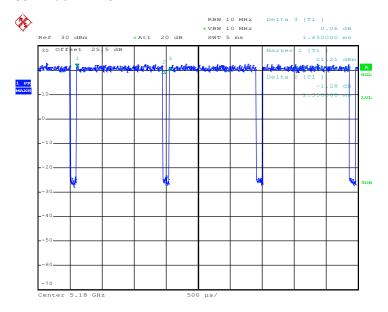
TEL: 886-3-327-3456 FAX: 886-3-328-4978



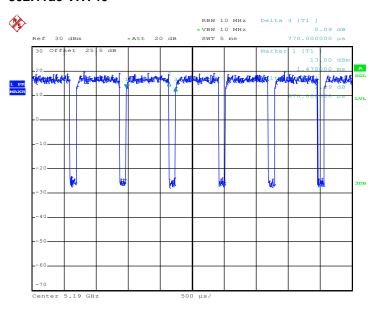


Date: 20.DEC.2016 22:55:12

#### 802.11ac VHT20

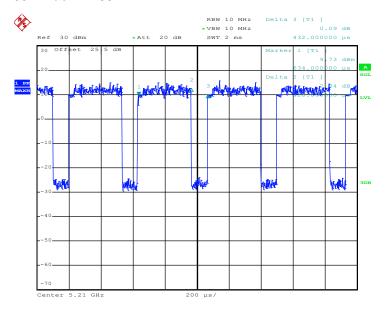


Date: 21.DEC.2016 21:48:36



Date: 21.DEC.2016 21:56:22

#### 802.11ac VHT80

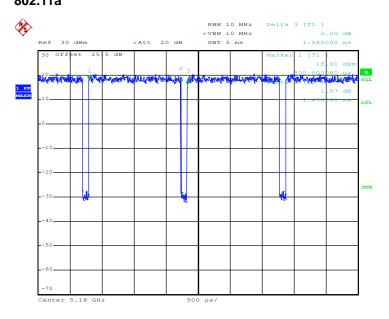


Date: 21.DEC.2016 22:08:37

TEL: 886-3-327-3456 FAX: 886-3-328-4978

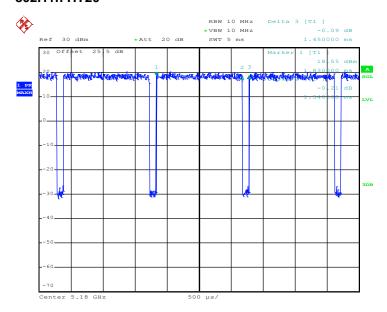
Report No.: FR651918-03E

### <MIMO Ant 0b+1b(1b)> 802.11a

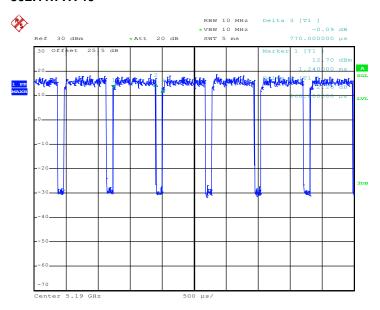


Date: 20.DEC.2016 22:44:10

#### 802.11n HT20

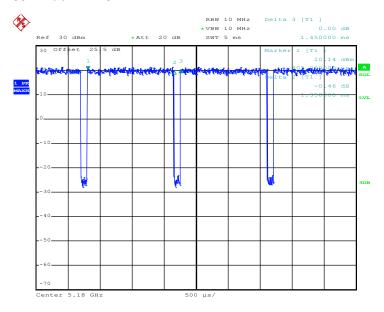


Date: 20.DEC.2016 22:52:21



Date: 20.DEC.2016 22:56:15

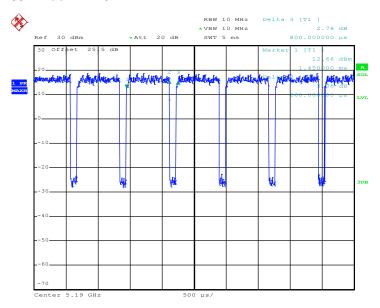
#### 802.11ac VHT20



Date: 21.DEC.2016 21:49:43

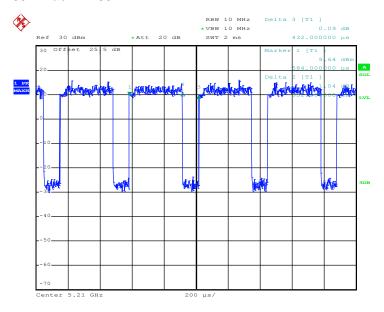
TEL: 886-3-327-3456 FAX: 886-3-328-4978





Date: 21.DEC.2016 21:57:13

#### 802.11ac VHT80



Date: 21.DEC.2016 22:09:34

TEL: 886-3-327-3456 FAX: 886-3-328-4978