



**Band 3 5470~5725MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

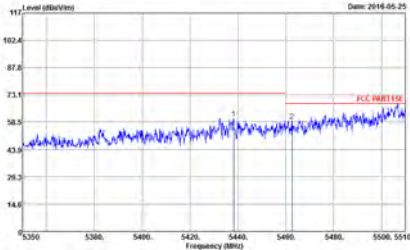
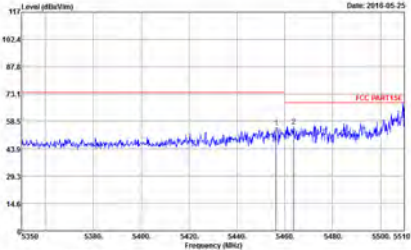
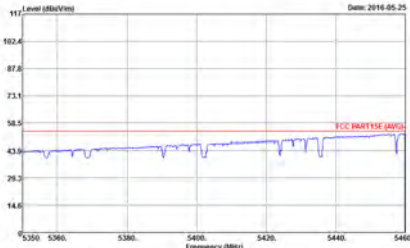
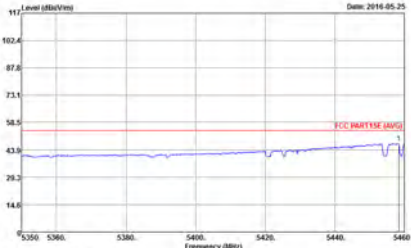
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak	<p>Site : 03CH07-HY            Condition : FCC PART15E 3m HF-ANT_130829 HORIZONTAL            RBW 1000 000kHz VSW 3.000kHz SWT Auto            Detector : Peak            Project : 650305</p>	<p>Site : 03CH07-HY            Condition : FCC PART15E 3m HF-ANT_130829 VERTICAL            RBW 1000 000kHz VSW 3.000kHz SWT Auto            Detector : Peak            Project : 650305</p>
Avg.	<p>Site : 03CH07-HY            Condition : FCC PART15E (AVG) 3m HF-ANT_130829 HORIZONTAL            RBW 1000 000kHz VSW 0.300kHz SWT Auto            Detector : Peak            Project : 650305</p>	<p>Site : 03CH07-HY            Condition : FCC PART15E (AVG) 3m HF-ANT_130829 VERTICAL            RBW 1000 000kHz VSW 0.300kHz SWT Auto            Detector : Peak            Project : 650305</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SVWT: Auto Detector: Peak Project: 650385</p>	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SVWT: Auto Detector: Peak Project: 650385</p>

WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SVWT: Auto Detector: Peak Project: 650385</p>	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SVWT: Auto Detector: Peak Project: 650385</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Vertical
Peak	 <p>Site: 03CH07-HY            Condition: FCC PART 15E 3m HF-ANT, 130829 HORIZONTAL            RBW 1000.000kHz, VSW 3.000, SWT Auto            Detector: Peak            Project: 650305</p>	 <p>Site: 03CH07-HY            Condition: FCC PART 15E 3m HF-ANT, 130829 VERTICAL            RBW 1000.000kHz, VSW 3.000, SWT Auto            Detector: Peak            Project: 650305</p>
Avg.	 <p>Site: 03CH07-HY            Condition: FCC PART 15E (AVG) 3m HF-ANT, 130829 HORIZONTAL            RBW 1000.000kHz, VSW 3.300kHz, SWT Auto            Detector: Peak            Project: 650305</p>	 <p>Site: 03CH07-HY            Condition: FCC PART 15E (AVG) 3m HF-ANT, 130829 VERTICAL            RBW 1000.000kHz, VSW 3.300kHz, SWT Auto            Detector: Peak            Project: 650305</p>



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Vertical
Peak	<p>Site: 83CH07-HY          Condition: FCC PART15E 3m HF-ANT_130829 HORIZONTAL          RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto          Detector: Peak          Project: 650305</p>	<p>Site: 83CH07-HY          Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL          RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto          Detector: Peak          Project: 650305</p>

WIFI	Band 3 5470~5725MHz Fundamental @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site: 83CH07-HY          Condition: FCC PART15E 3m HF-ANT_130829 HORIZONTAL          RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto          Detector: Peak          Project: 650305</p>	<p>Site: 83CH07-HY          Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL          RBW: 1000.000kHz VSW: 3000.000kHz SWT: Auto          Detector: Peak          Project: 650305</p>



**Band 3 - 5470~5725MHz**

**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH100 5500MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305 Mode : 42</p>

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH116 5580MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 53CH27HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 53CH27HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>



**Band 3 5470~5725MHz  
WIFI 802.11ac VHT40 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH102 5510MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 VERTICAL Detector : Peak Project : 650305</p>

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH110 5550MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 VERTICAL Detector : Peak Project : 650305</p>



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131023 VERTICAL Detector : Peak Project : 650305</p>





**Band 3 5470~5725MHz  
WIFI 802.11ac VHT80 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH106 5530MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>

<b>WIFI</b>	<b>Band 3 5470~5725MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH122 5610MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Fundamental @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Fundamental @ 3m</b>	
<b>ANT</b>	<b>802.11a CH144 5720MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site: 03CH07.HY Condition: FCC PART 15E 3m HF ANT 130E29 HORIZONTAL RBW 1000.000kHz VBW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>	<p>Site: 03CH07.HY Condition: FCC PART 15E 3m HF ANT 130E29 VERTICAL RBW 1000.000kHz VBW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT20 (Fundamental @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Fundamental @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH144 5720MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site: 03CH07.HY Condition: FCC PART 15E 3m HF ANT 130E29 HORIZONTAL RBW 1000.000kHz VBW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>	<p>Site: 03CH07.HY Condition: FCC PART 15E 3m HF ANT 130E29 VERTICAL RBW 1000.000kHz VBW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>



**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT40 (Fundamental @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Fundamental @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH142 5710MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 63CH07-HY Condition : FCC PART 15E 3m HF-ANT_130E29 HORIZONTAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>	<p>Site : 63CH07-HY Condition : FCC PART 15E 3m HF-ANT_130E29 VERTICAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Fundamental @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Fundamental @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH138 5690MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 63CH07-HY Condition : FCC PART 15E 3m HF-ANT_130E29 HORIZONTAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>	<p>Site : 63CH07-HY Condition : FCC PART 15E 3m HF-ANT_130E29 VERTICAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>



**Band 3 - Straddle Channel**  
**WIFI 802.11a (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH144 5720MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT20 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT20 CH144 5720MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH67-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>



**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT40 CH142 5710MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>

**Band 3 – Straddle Channel**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 3 Straddle Channel Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ac VHT80 CH138 5690MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07-HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 650305</p>



Emission below 1GHz  
5GHz WIFI 802.11ac VHT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT20 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH074HY Condition : FCC CLASS-B 3m LF-AW5-3541(W) HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH074HY Condition : FCC CLASS-B 3m LF-AW5-3541(W) VERTICAL Detector : Peak Project : 650305</p>

Emission below 1GHz  
5GHz WIFI 802.11ac VHT40 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH074HY Condition : FCC CLASS-B 3m LF-AW5-3541(W) HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH074HY Condition : FCC CLASS-B 3m LF-AW5-3541(W) VERTICAL Detector : Peak Project : 650305</p>



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

Table with 2 columns: Horizontal and Vertical. Each column contains a graph showing Level (dBuV/m) vs Frequency (MHz) for 5GHz WIFI 802.11ac VHT80 (LF). The graphs show a blue signal line and a red 'FCC CLASS B' limit line. The left graph is for 'Horizontal' and the right for 'Vertical'. Both graphs show the signal level is below the limit line. Metadata includes Site: 03CH07.HY, Condition: FCC CLASS-B 3m LF-ANT:3541W8, Detector: Peak, Project: 650305.





## Appendix D. Duty Cycle Plots

### <Non-TXBF Modes>

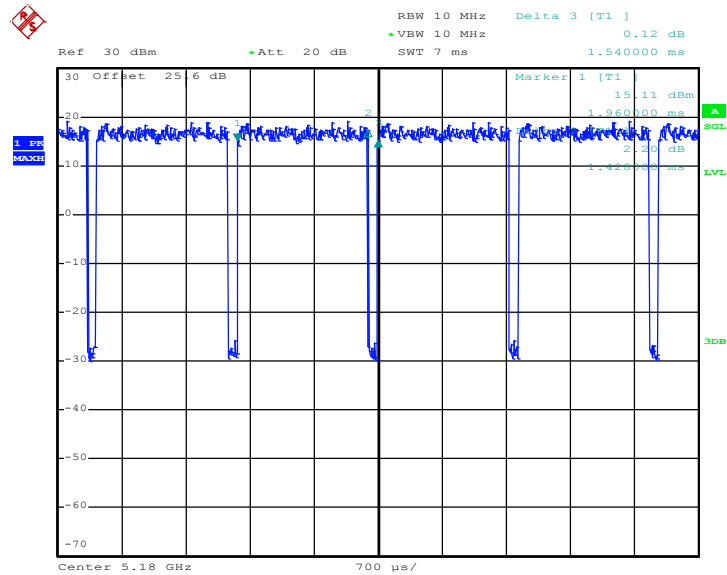
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
2	802.11a	92.73	1428.00	0.70	1kHz
2	5GHz 802.11n VHT20 for Ant. 2	93.14	1344.00	0.74	1kHz
1+2	5GHz 802.11n VHT20 for Ant. 1	92.23	1330.00	0.75	2kHz
1+2	5GHz 802.11n VHT20 for Ant. 2	93.20	1344.00	0.74	2kHz
2	5GHz 802.11n VHT40 for Ant. 2	87.01	670.00	1.49	2kHz
1+2	5GHz 802.11n VHT40 for Ant. 1	87.01	670.00	1.49	3kHz
1+2	5GHz 802.11n VHT40 for Ant. 2	87.01	670.00	1.49	3kHz
2	5GHz 802.11n VHT80 for Ant. 2	76.85	332.00	3.01	5kHz
1+2	5GHz 802.11n VHT80 for Ant. 1	75.93	328.00	3.05	10kHz
1+2	5GHz 802.11n VHT80 for Ant. 2	76.50	332.00	3.01	10kHz





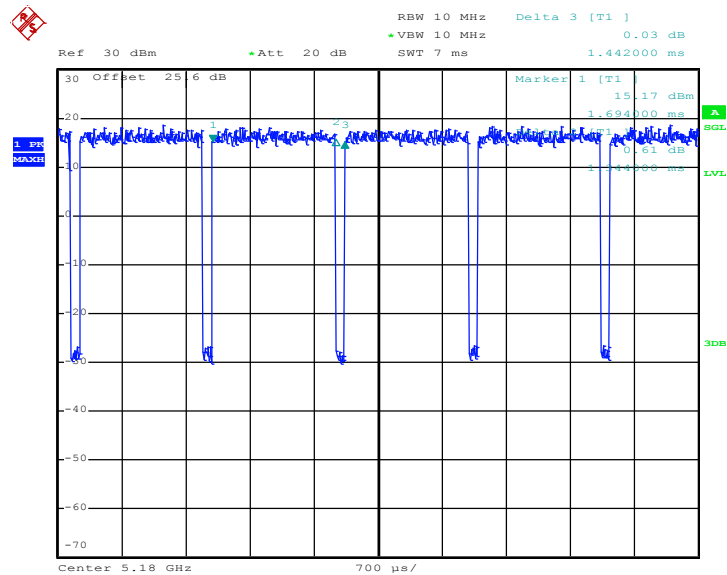
SISO <Ant. 2>

802.11a



Date: 26.MAY.2016 01:08:11

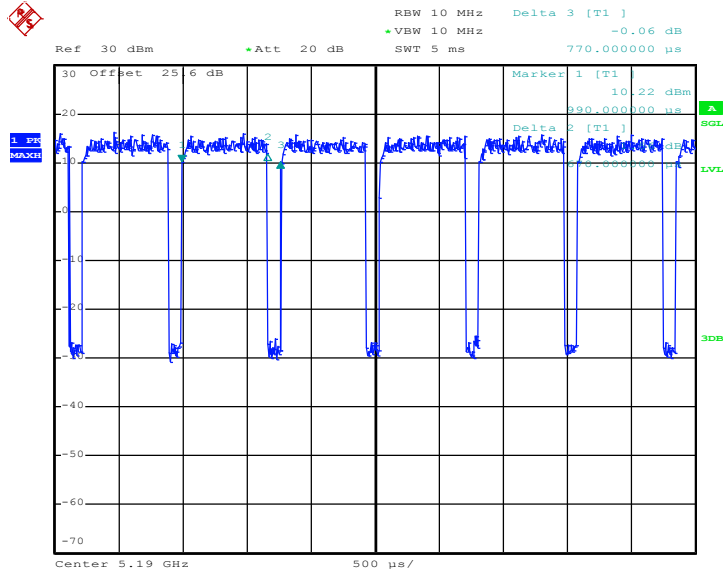
802.11ac VTH20



Date: 26.MAY.2016 01:24:16

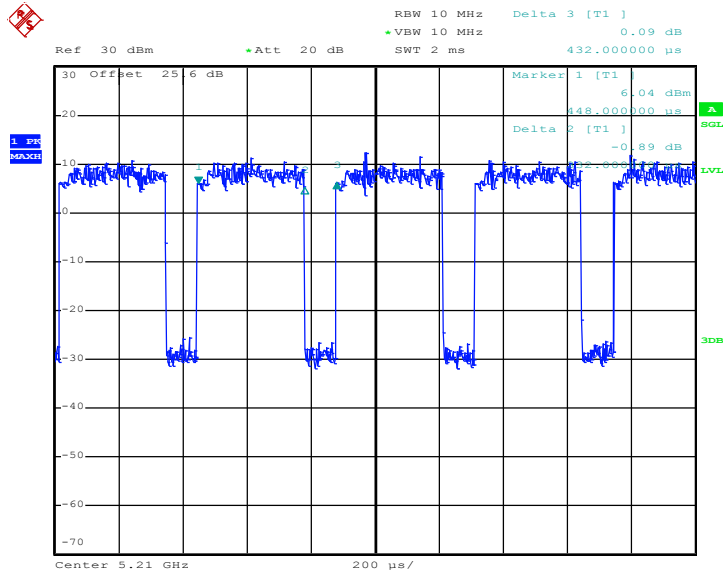


802.11ac VTH40



Date: 26.MAY.2016 01:29:25

802.11ac VTH80

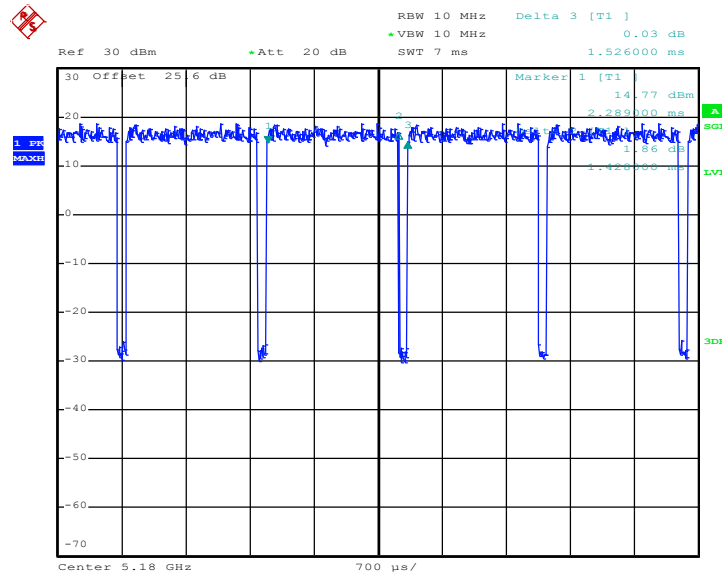


Date: 26.MAY.2016 01:35:20



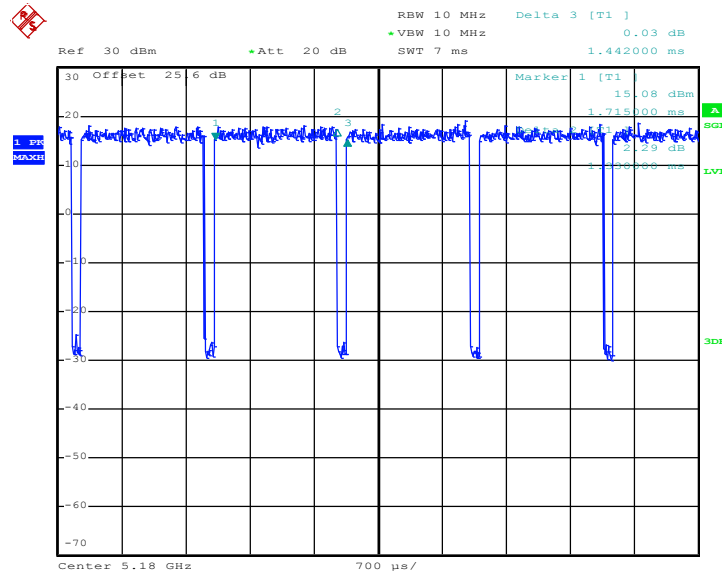
MIMO <Ant. 1+2(1)>

802.11a



Date: 26.MAY.2016 01:09:11

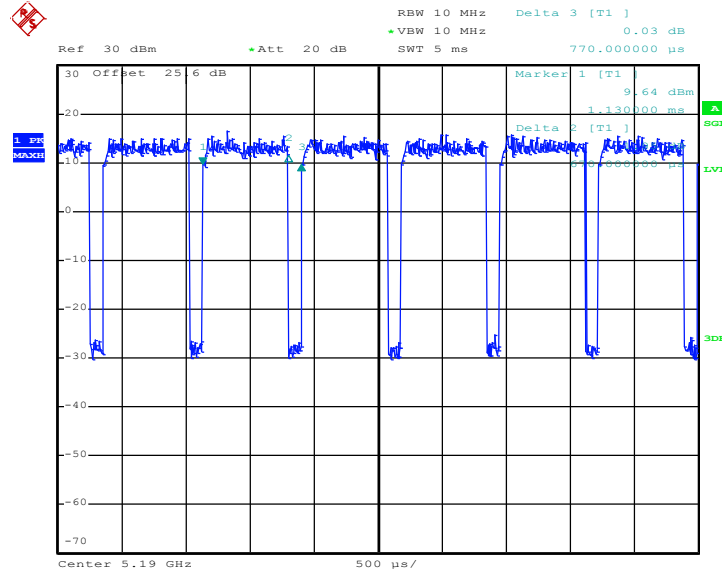
802.11ac VTH20



Date: 26.MAY.2016 01:25:12

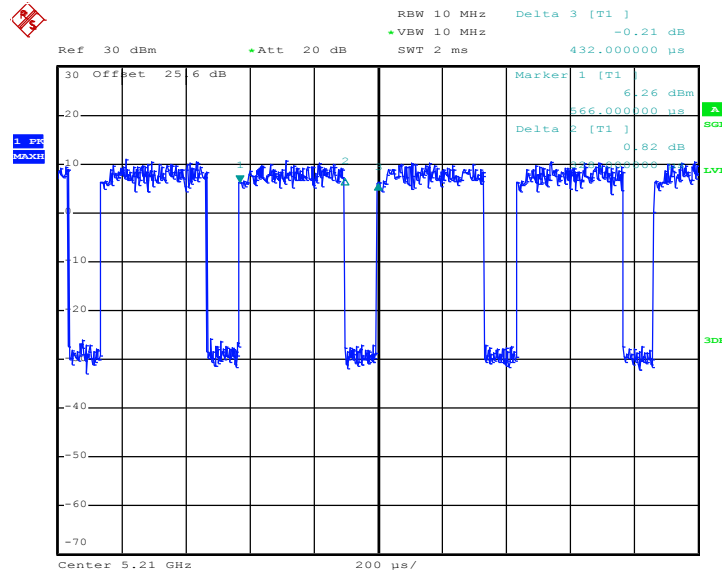


802.11ac VTH40



Date: 26.MAY.2016 01:33:09

802.11ac VTH80

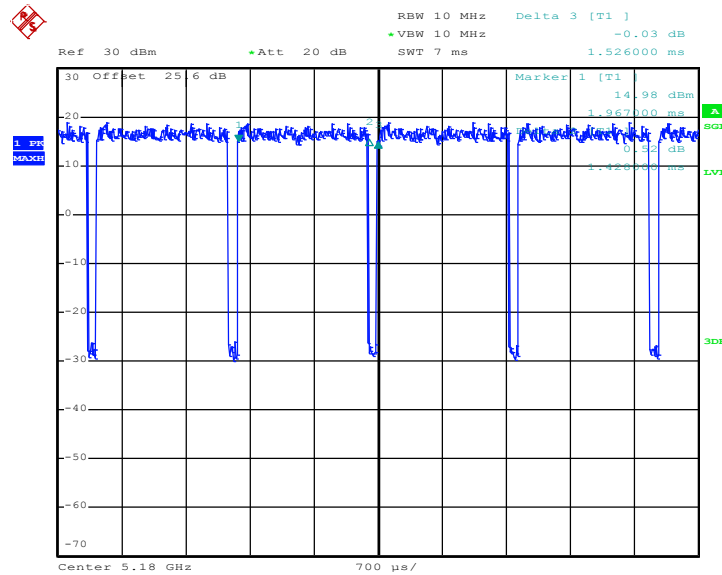


Date: 26.MAY.2016 01:38:19



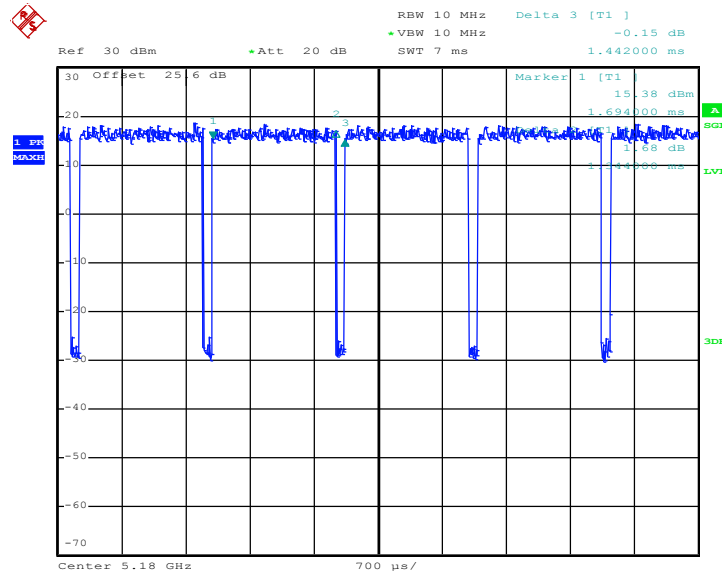
MIMO <Ant. 1+2(2)>

802.11a



Date: 26.MAY.2016 01:09:55

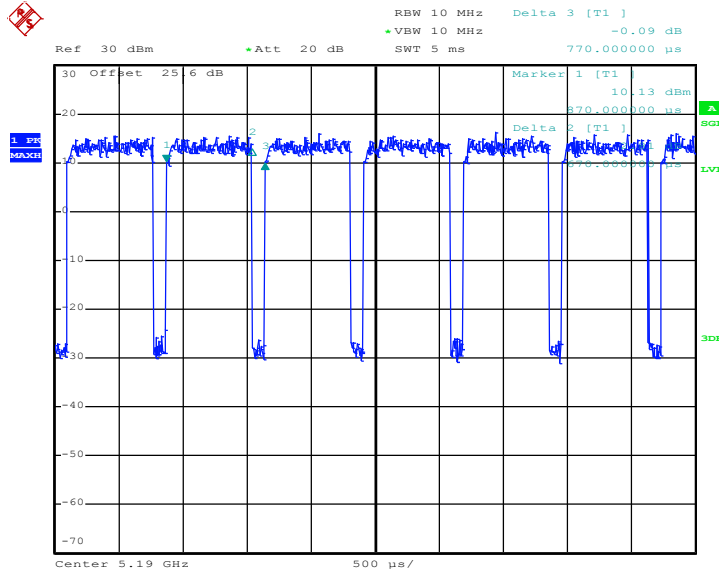
802.11ac VTH20



Date: 26.MAY.2016 01:26:01

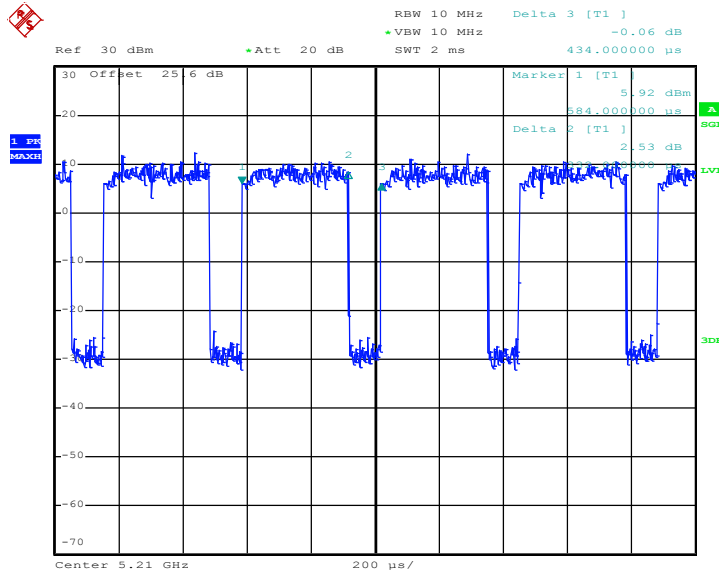


802.11ac VTH40



Date: 26.MAY.2016 01:32:13

802.11ac VTH80



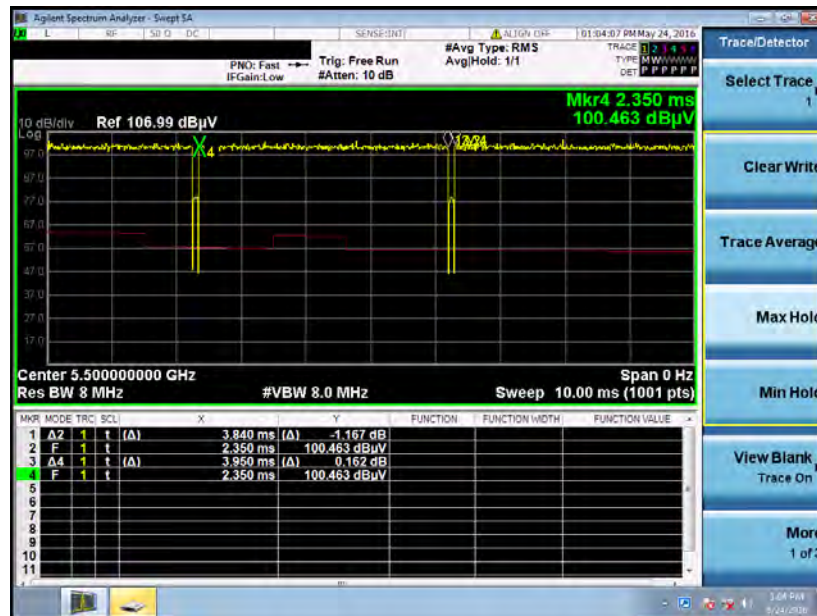
Date: 26.MAY.2016 01:37:24

<TXBF Modes>

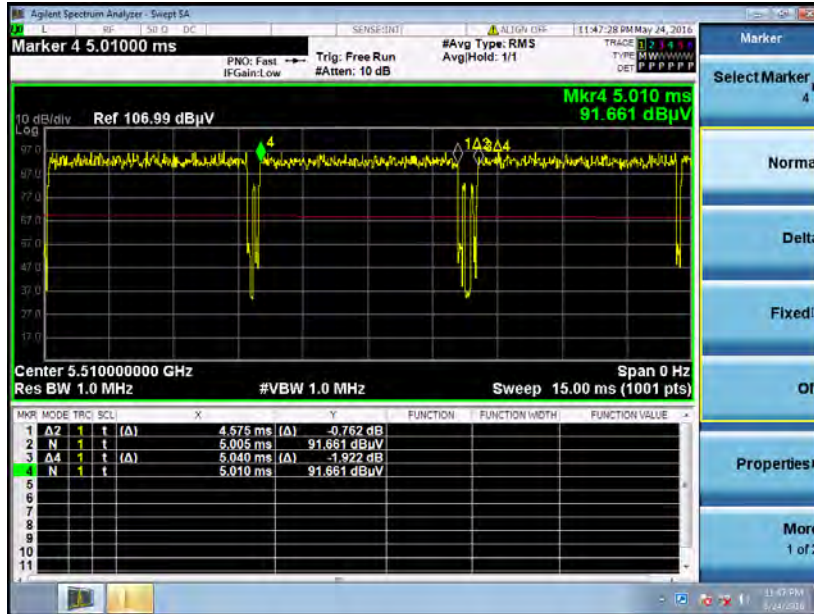
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11n VHT20 for Ant. 1	80.35	1268	0.79	1kHz
1+2	5GHz 802.11n VHT20 for Ant. 2	57.33	430	2.33	3kHz
1+2	5GHz 802.11n VHT40 for Ant. 1	97.22	3830	0.26	300Hz
1+2	5GHz 802.11n VHT40 for Ant. 2	90.77	4575	0.22	300Hz
1+2	5GHz 802.11n VHT80 for Ant. 1	97.15	5073	0.20	300Hz
1+2	5GHz 802.11n VHT80 for Ant. 2	80.35	1268	0.79	1kHz

MIMO <Ant. 1+2>

802.11ac VHT20



802.11ac VTH40



802.11ac VTH80

