



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

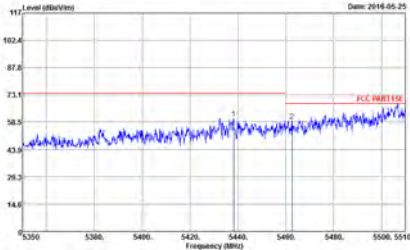
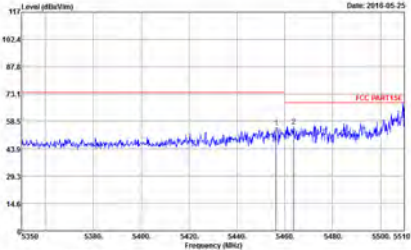
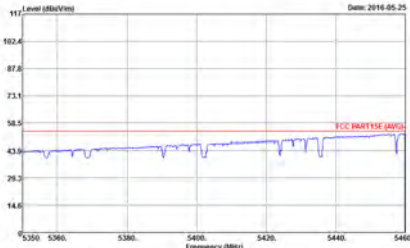
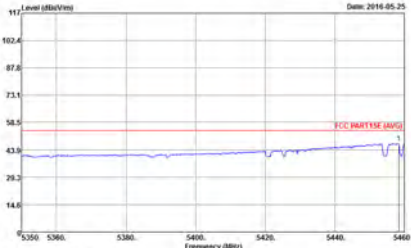
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak	<p>Site : 03CH07-HY            Condition : FCC PART15E 3m HF-ANT_130829 HORIZONTAL            RBW 1000 000kHz VSW 3.000kHz SWT Auto            Detector : Peak            Project : 650305</p>	<p>Site : 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 SfBW: 1000.000kHz VSW: 3000.000kHz SWFT: Auto Detector: Peak Project: 650385</p>	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL SfBW: 1000.000kHz VSW: 3000.000kHz SWFT: 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 SfBW: 1000.000kHz VSW: 3000.000kHz SWFT: Auto Detector: Peak Project: 650385</p>	<p>Site: 03CH07-HY Condition: FCC PART15E 3m HF-ANT_130829 VERTICAL SfBW: 1000.000kHz VSW: 3000.000kHz SWFT: 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 PART15E 3m HF-ANT, 130829 HORIZONTAL            RBW 1000.000kHz, VSW 3.000, 0.000kHz, SWT Auto            Detector: Peak            Project: 650305</p>	 <p>Site: 03CH07-HY            Condition: FCC PART15E 3m HF-ANT, 130829 VERTICAL            RBW 1000.000kHz, VSW 3.000, 0.000kHz, 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 3.300kHz, SWT Auto            Detector: Peak            Project: 650305</p>	 <p>Site: 03CH07-HY            Condition: FCC PART15E (AVG) 3m HF-ANT, 130829 VERTICAL            RBW 1000.000kHz, VSW 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>



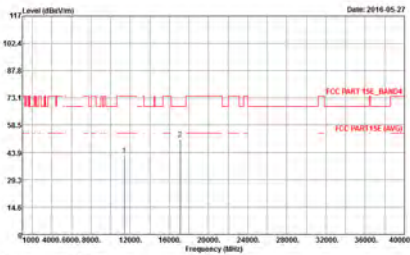
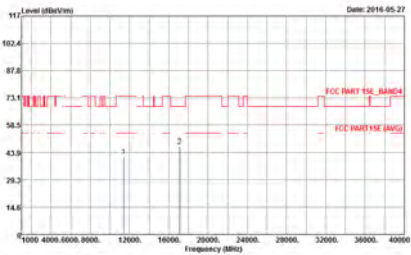
Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.	<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>

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	<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 : S3CH27.HY Condition : FCC PART 15E_BAND4 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 650305</p>	 <p>Site : S3CH27.HY 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 PART15E 3m HF ANT 130E29 HORIZONTAL RBW 1000.000kHz VEW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>	<p>Site: 03CH07.HY Condition: FCC PART15E 3m HF ANT 130E29 VERTICAL RBW 1000.000kHz VEW 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 PART15E 3m HF ANT 130E29 HORIZONTAL RBW 1000.000kHz VEW 3000.000kHz SVWT Auto Detector: Peak Project: 650305</p>	<p>Site: 03CH07.HY Condition: FCC PART15E 3m HF ANT 130E29 VERTICAL RBW 1000.000kHz VEW 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 PART15E 3m HF-ANT_130829 HORIZONTAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>	<p>Site : 63CH07-HY Condition : FCC PART15E 3m HF-ANT_130829 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 PART15E 3m HF-ANT_130829 HORIZONTAL SDW 1000.000kHz VSW 3000.000kHz SWT Auto Detector : Peak Project : 650305</p>	<p>Site : 63CH07-HY Condition : FCC PART15E 3m HF-ANT_130829 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 : 03CH07HY Condition : FCC CLASS-B 3m LF-AVI-3041(W) HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07HY Condition : FCC CLASS-B 3m LF-AVI-3041(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 : 03CH07HY Condition : FCC CLASS-B 3m LF-AVI-3041(W) HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07HY Condition : FCC CLASS-B 3m LF-AVI-3041(W) VERTICAL Detector : Peak Project : 650305</p>



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

WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH07.HY Condition : FCC CLASS-B 3m LF-ANT:3541W8) HORIZONTAL Detector : Peak Project : 650305</p>	<p>Site : 03CH07.HY Condition : FCC CLASS-B 3m LF-ANT:3541W8) VERTICAL Detector : Peak Project : 650305</p>



## Appendix D. Duty Cycle Plots

### <Non-TXBF Modes>

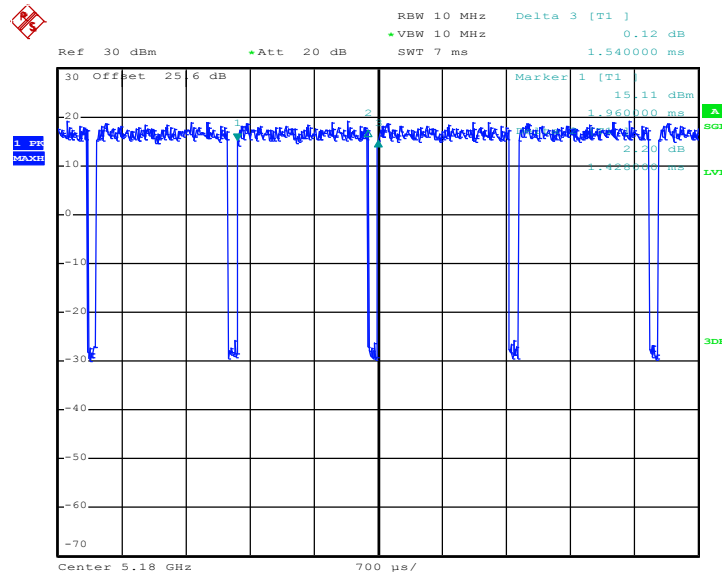
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
2	802.11a	92.73	1428.00	0.70	1kHz
2	5GHz 802.11n VHT20 for Ant. 2	93.14	1344.00	0.74	1kHz
1+2	5GHz 802.11n VHT20 for Ant. 1	92.23	1330.00	0.75	2kHz
1+2	5GHz 802.11n VHT20 for Ant. 2	93.20	1344.00	0.74	2kHz
2	5GHz 802.11n VHT40 for Ant. 2	87.01	670.00	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





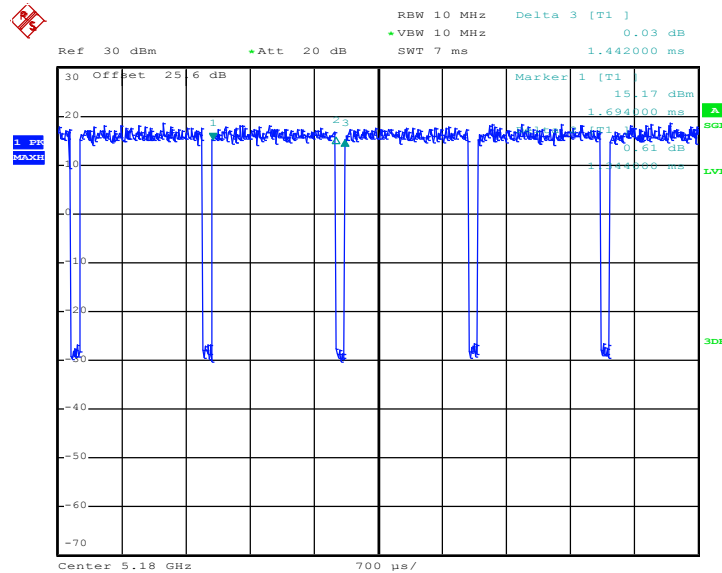
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802.11a



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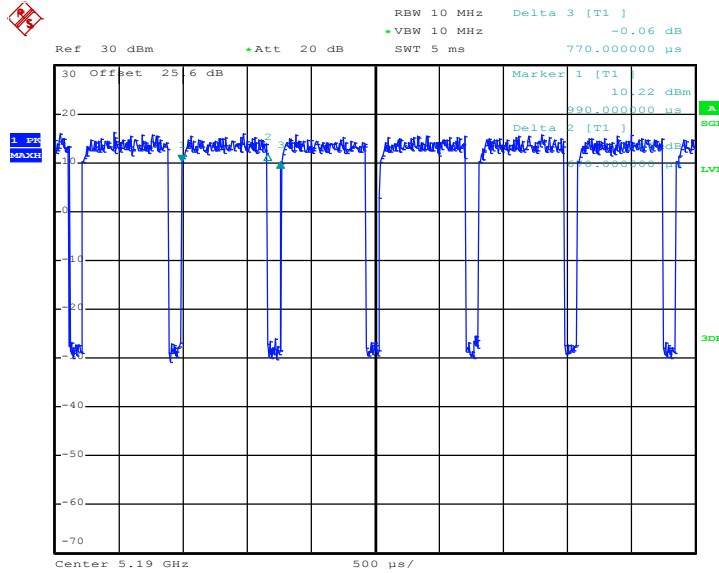
802.11ac VTH20



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

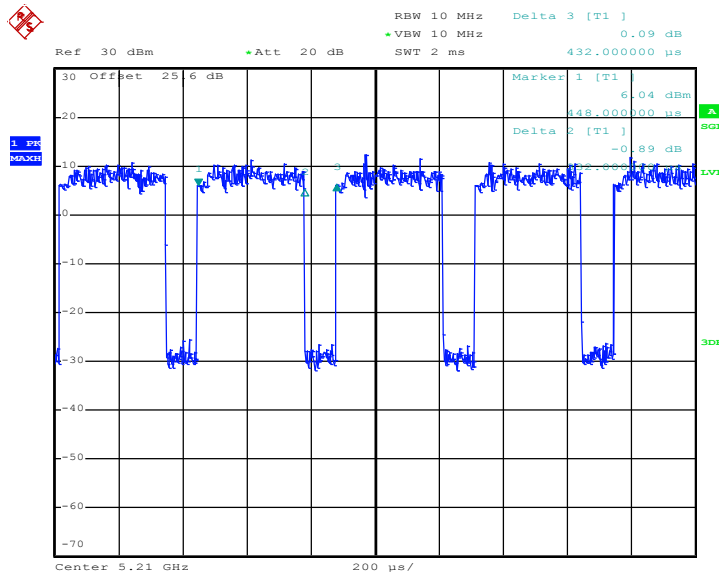


802.11ac VTH40



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

802.11ac VTH80

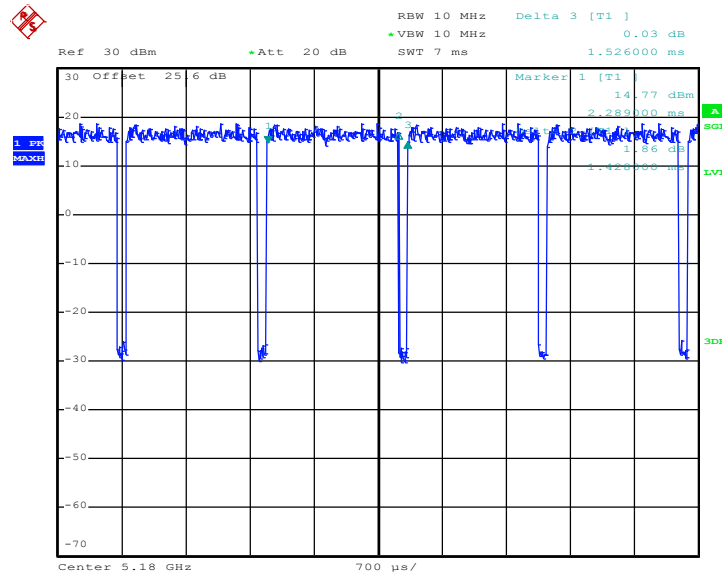


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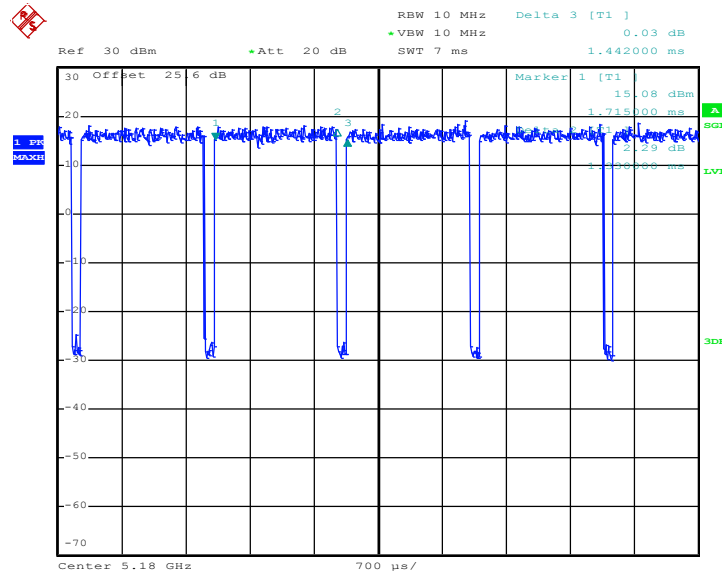
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802.11a



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

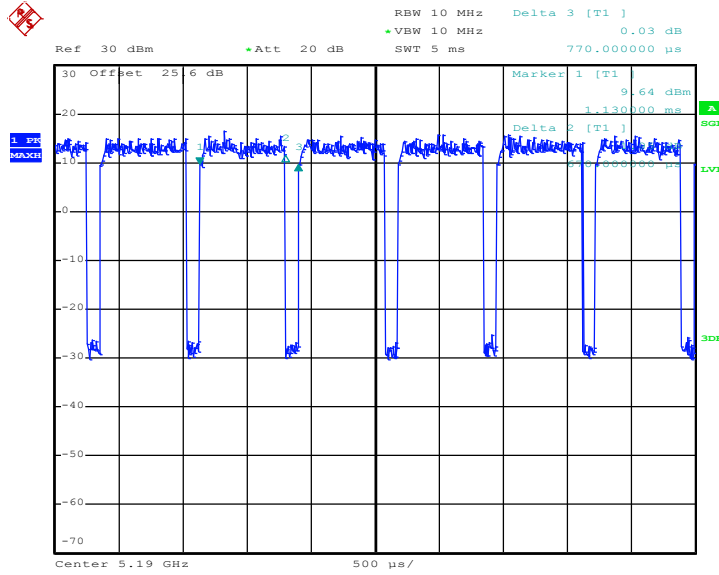
802.11ac VTH20



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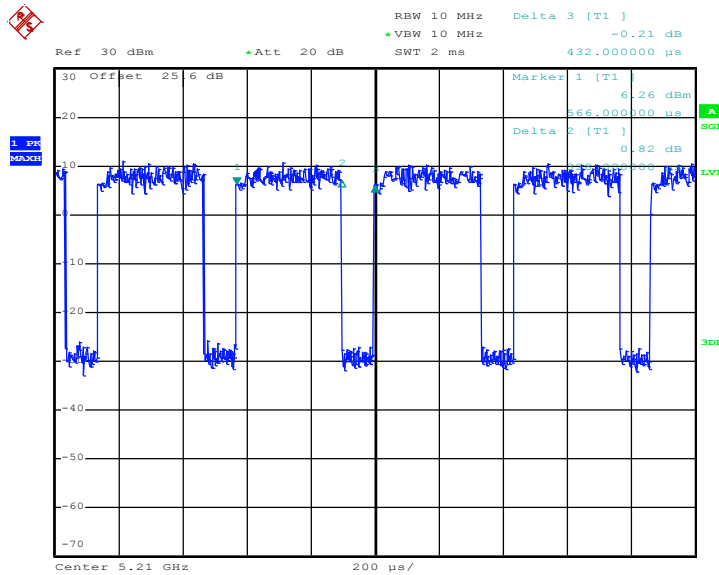


802.11ac VTH40



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

802.11ac VTH80

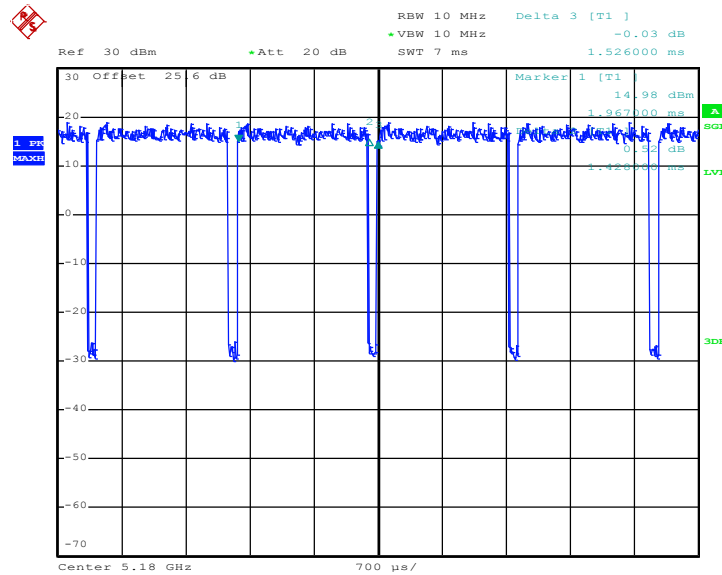


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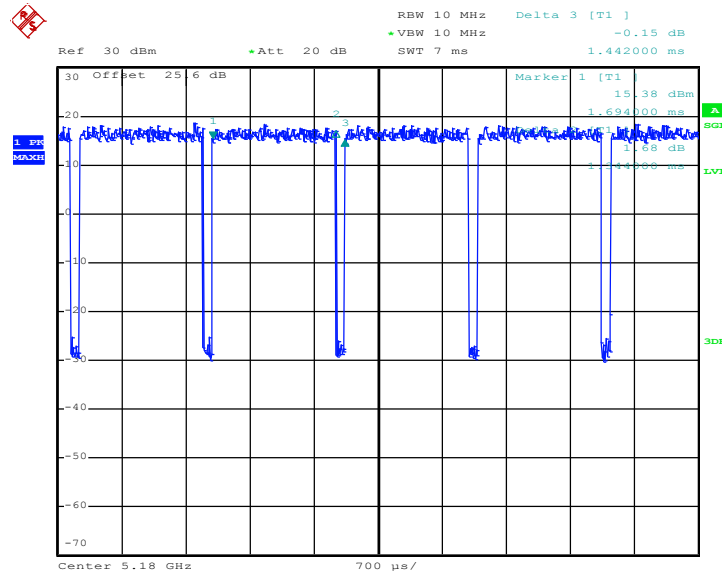
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802.11a



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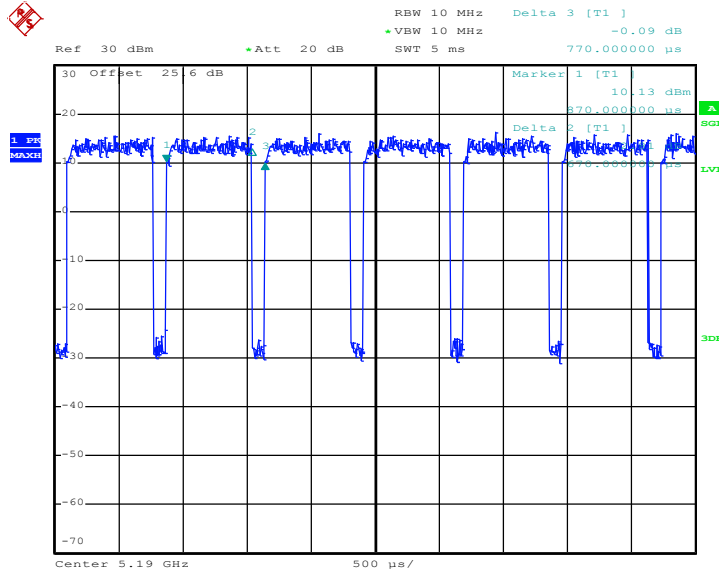
802.11ac VTH20



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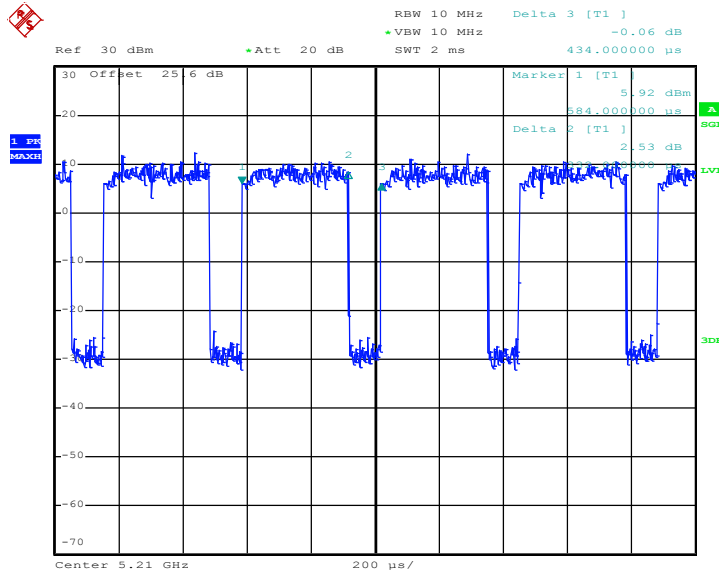


802.11ac VTH40



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

802.11ac VTH80



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

<TXBF Modes>

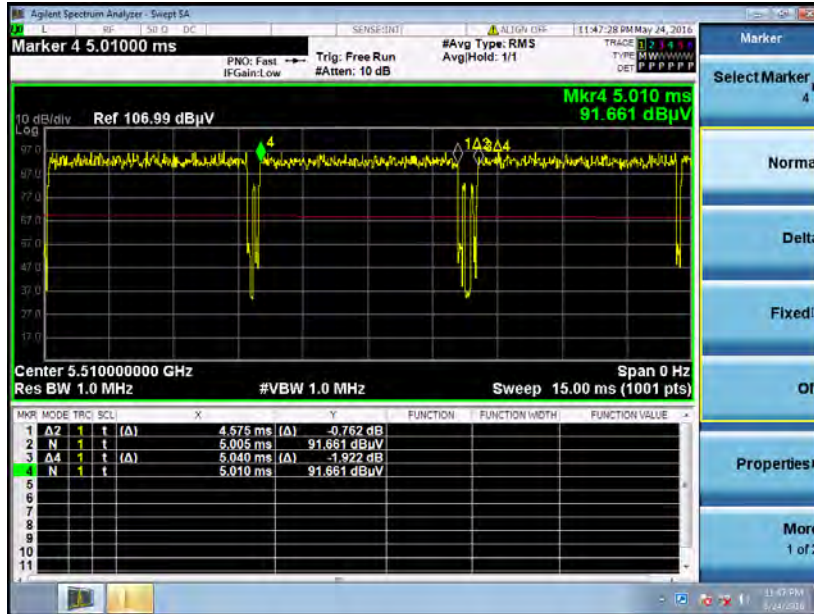
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11n VHT20 for Ant. 1	80.35	1268	0.79	1kHz
1+2	5GHz 802.11n VHT20 for Ant. 2	57.33	430	2.33	3kHz
1+2	5GHz 802.11n VHT40 for Ant. 1	97.22	3830	0.26	300Hz
1+2	5GHz 802.11n VHT40 for Ant. 2	90.77	4575	0.22	300Hz
1+2	5GHz 802.11n VHT80 for 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 VTH20



802.11ac VTH40



802.11ac VTH80

