



Mode	12																																																																																																																								
	Harmonic																																																																																																																								
	2400-2483.5_Bluetooth _CH39_2441MHz																																																																																																																								
ANT	2																																																																																																																								
Pol.	Horizontal										Vertical																																																																																																														
Peak Avg	Level (dBuV/m) Date: 2024-08-22 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark <table><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><td>1 4882.00</td><td>44.99</td><td>74.00</td><td>-29.01</td><td>51.92</td><td>35.92</td><td>8.70</td><td>51.55</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2 4882.00</td><td>20.20</td><td>54.00</td><td>-33.80</td><td>27.13</td><td>35.92</td><td>8.70</td><td>51.55</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3 7323.00</td><td>45.92</td><td>74.00</td><td>-28.08</td><td>50.03</td><td>36.87</td><td>10.18</td><td>51.16</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4 7323.00</td><td>21.13</td><td>54.00</td><td>-32.87</td><td>25.24</td><td>36.87</td><td>10.18</td><td>51.16</td><td>---</td><td>---</td><td>Average</td></tr></table>										MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	Remark	1 4882.00	44.99	74.00	-29.01	51.92	35.92	8.70	51.55	---	---	Peak	2 4882.00	20.20	54.00	-33.80	27.13	35.92	8.70	51.55	---	---	Average	3 7323.00	45.92	74.00	-28.08	50.03	36.87	10.18	51.16	---	---	Peak	4 7323.00	21.13	54.00	-32.87	25.24	36.87	10.18	51.16	---	---	Average	Level (dBuV/m) Date: 2024-08-22 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark <table><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><td>1 4882.00</td><td>44.38</td><td>74.00</td><td>-29.62</td><td>51.31</td><td>35.92</td><td>8.70</td><td>51.55</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2 4882.00</td><td>19.59</td><td>54.00</td><td>-34.41</td><td>26.52</td><td>35.92</td><td>8.70</td><td>51.55</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3 7323.00</td><td>45.21</td><td>74.00</td><td>-28.79</td><td>49.32</td><td>36.87</td><td>10.18</td><td>51.16</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4 7323.00</td><td>20.42</td><td>54.00</td><td>-33.58</td><td>24.53</td><td>36.87</td><td>10.18</td><td>51.16</td><td>---</td><td>---</td><td>Average</td></tr></table>	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	Remark	1 4882.00	44.38	74.00	-29.62	51.31	35.92	8.70	51.55	---	---	Peak	2 4882.00	19.59	54.00	-34.41	26.52	35.92	8.70	51.55	---	---	Average	3 7323.00	45.21	74.00	-28.79	49.32	36.87	10.18	51.16	---	---	Peak	4 7323.00	20.42	54.00	-33.58	24.53	36.87	10.18	51.16	---	---	Average
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Pol.	Horizontal																																																																															
Peak Avg	Data: 5 Date: 2024-09-02																																																																															
	<table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna Level</th><th>Cable Loss Factor</th><th>Preamp Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4960.00</td><td>45.30</td><td>-28.70</td><td>74.00</td><td>51.77</td><td>36.64</td><td>8.41</td><td>51.52</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4960.00</td><td>20.51</td><td>-33.49</td><td>54.00</td><td>26.98</td><td>36.64</td><td>8.41</td><td>51.52</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3 *</td><td>7440.00</td><td>46.17</td><td>-27.83</td><td>74.00</td><td>50.43</td><td>36.76</td><td>10.17</td><td>51.19</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7440.00</td><td>21.38</td><td>-32.62</td><td>54.00</td><td>25.64</td><td>36.76</td><td>10.17</td><td>51.19</td><td>---</td><td>---</td><td>Average</td></tr></table>												Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Preamp Loss Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	4960.00	45.30	-28.70	74.00	51.77	36.64	8.41	51.52	---	---	Peak	2	4960.00	20.51	-33.49	54.00	26.98	36.64	8.41	51.52	---	---	Average	3 *	7440.00	46.17	-27.83	74.00	50.43	36.76	10.17	51.19	---	---	Peak	4	7440.00	21.38	-32.62	54.00	25.64	36.76	10.17	51.19	---	---
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Preamp Loss Factor	A/Pos	T/Pos	Remark																																																																						
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4	7440.00	21.38	-32.62	54.00	25.64	36.76	10.17	51.19	---	---	Average																																																																					
Peak Avg	Data: 6 Date: 2024-09-02																																																																															
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	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Preamp Loss Factor	A/Pos	T/Pos	Remark																																																																						
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Mode	14													
	LF													
	2400-2483.5_Bluetooth _CH78_2480MHz													
ANT	2													
Pol.	Horizontal							Vertical						
QPI Peak														



Appendix C2. Radiated Spurious Emission Test Data

<MIMO Mode>

Test Engineer :	Wenbo Xiao	Relative Humidity :	50%
		Temperature :	20℃~22℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 51	2400-2483.5	0+2	Bluetooth BR_GFSK	00	2402	1DH5	-	-
Mode 52	2400-2483.5	0+2	Bluetooth BR_GFSK	39	2441	1DH5	-	-
Mode 53	2400-2483.5	0+2	Bluetooth BR_GFSK	78	2480	1DH5	-	-
Mode 54	2400-2483.5	0+2	Bluetooth BR_GFSK-LF	00	2402	1DH5	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
51	Bluetooth BR_GFSK	00	2367.75	44.53	74.00	-29.47	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	43.79	74.00	-30.21	V	Peak	Pass	Harmonic
52	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	44.34	74.00	-29.66	V	Peak	Pass	Harmonic
53	Bluetooth BR_GFSK	78	2486.73	44.45	74.00	-29.55	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	4960.00	44.18	74.00	-29.82	V	Peak	Pass	Harmonic
54	Bluetooth BR_GFSK-LF	00	84.32	28.10	40.00	-11.90	V	Peak	Pass	LF



Mode	51																																																																																																																							
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	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																							
ANT	0+2																																																																																																																							
Pol.	Horizontal						Fundamental																																																																																																																	
Peak	Level (dBuV/m) Date: 2024-08-27 Frequency (MHz)						Level (dBuV/m) Date: 2024-08-27 Frequency (MHz)																																																																																																																	
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1	2402.00	94.28	-----	-----	91.73	30.72	5.37	33.54	255	298	PEAK																																																																																																													
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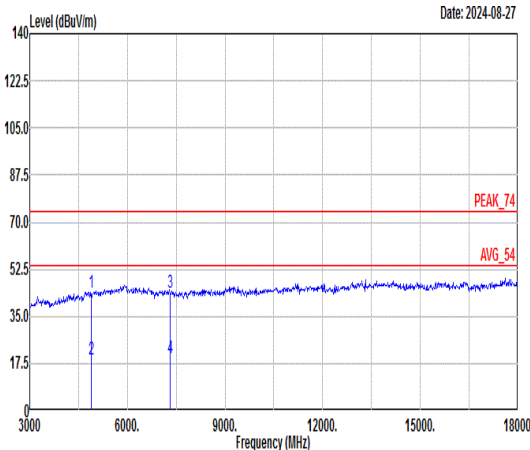
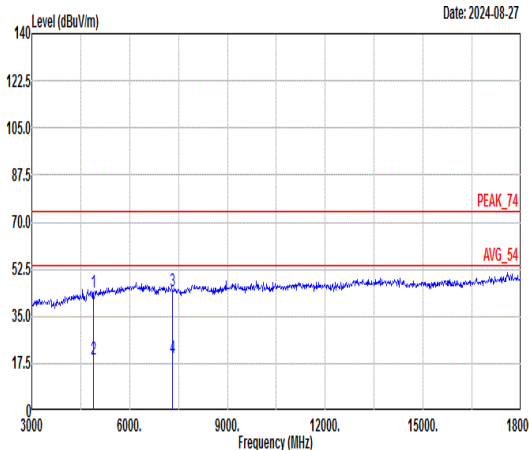


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1	2486.73	44.45	74.00	-29.55	41.88	30.70	5.46	33.59	292	204	PEAK																																																																																																																					
2	2486.73	19.66	54.00	-34.34	17.09	30.70	5.46	33.59	292	204	AVERAGE																																																																																																																					
		Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																					
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1	2480.00	95.76	-----	-----	93.19	30.70	5.46	33.59	292	204	PEAK																																																																																																																					
2	2480.00	70.97	54.00	16.97	68.40	30.70	5.46	33.59	292	204	AVERAGE																																																																																																																					



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Peak	Date: 2024-08-27						Date: 2024-08-27																																																																																																																
	<table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2485.90</td><td>43.62</td><td>74.00</td><td>-30.38</td><td>41.05</td><td>30.70</td><td>5.46</td><td>33.59</td><td>132</td><td>278</td><td>PEAK</td></tr><tr><td>2</td><td>2485.90</td><td>18.83</td><td>74.00</td><td>-55.17</td><td>16.26</td><td>30.70</td><td>5.46</td><td>33.59</td><td>132</td><td>278</td><td>AVERAGE</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	2485.90	43.62	74.00	-30.38	41.05	30.70	5.46	33.59	132	278	PEAK	2	2485.90	18.83	74.00	-55.17	16.26	30.70	5.46	33.59	132	278	AVERAGE	<table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>89.74</td><td>-----</td><td>-----</td><td>87.17</td><td>30.70</td><td>5.46</td><td>33.59</td><td>132</td><td>278</td><td>PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>64.95</td><td>74.00</td><td>-9.05</td><td>62.38</td><td>30.70</td><td>5.46</td><td>33.59</td><td>132</td><td>278</td><td>AVERAGE</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	2480.00	89.74	-----	-----	87.17	30.70	5.46	33.59	132	278	PEAK	2	2480.00	64.95	74.00	-9.05	62.38	30.70	5.46	33.59	132	278	AVERAGE
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2	4960.00	19.39	54.00	-34.61	39.73	36.10	8.46	64.90	---	---	Average																																																																																																																																																						
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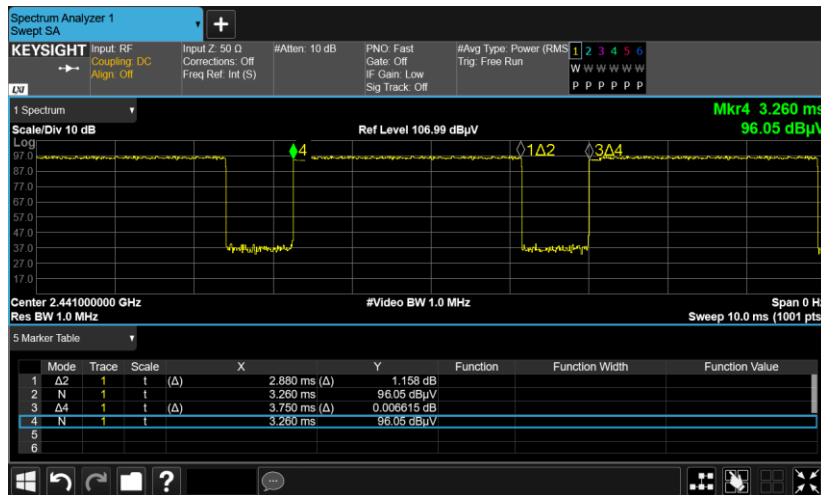


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4	345.25	24.70	46.00	-21.30	33.85	20.30	1.96	31.41	---	---	---	Peak																																																																																																																																																																																																																																								
5	535.37	26.65	46.00	-19.35	31.29	24.20	2.42	31.26	---	---	---	Peak																																																																																																																																																																																																																																								
6	953.44	32.65	46.00	-13.35	29.22	31.00	3.24	30.81	---	---	---	Peak																																																																																																																																																																																																																																								
		Limit		Read		Ant		Cable Preamp		APos TPos		Remark																																																																																																																																																																																																																																								
Freq	Level	Line	Margin	Level	Factor	Loss	Factor			cm	deg																																																																																																																																																																																																																																									
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																																																																																																																																									
1	30.97	28.05	40.00	-11.95	34.43	24.70	0.54	31.62	---	---	---	Peak																																																																																																																																																																																																																																								
2	84.32	28.10	40.00	-11.90	44.99	14.00	0.91	31.80	---	---	---	Peak																																																																																																																																																																																																																																								
3	143.49	21.90	43.50	-21.60	35.00	17.40	1.23	31.73	---	---	---	Peak																																																																																																																																																																																																																																								
4	281.23	23.15	46.00	-22.85	34.21	18.74	1.74	31.54	---	---	---	Peak																																																																																																																																																																																																																																								
5	716.76	29.98	46.00	-16.02	31.41	26.98	2.79	31.20	---	---	---	Peak																																																																																																																																																																																																																																								
6	942.77	32.35	46.00	-13.65	29.46	30.48	3.22	30.81	---	---	---	Peak																																																																																																																																																																																																																																								

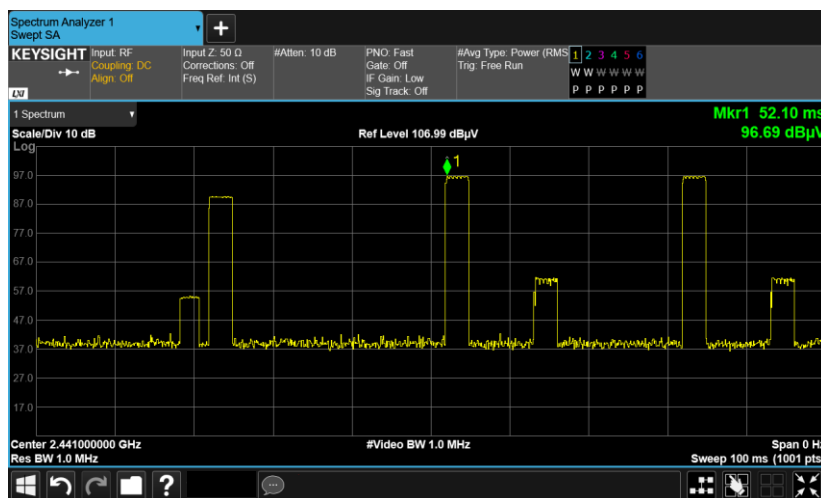
Appendix D. Duty Cycle Plots

<SISO_ANT0>

3DH5 on time (One Pulse) Plot



3DH5 on time (Count Pulses) Plot

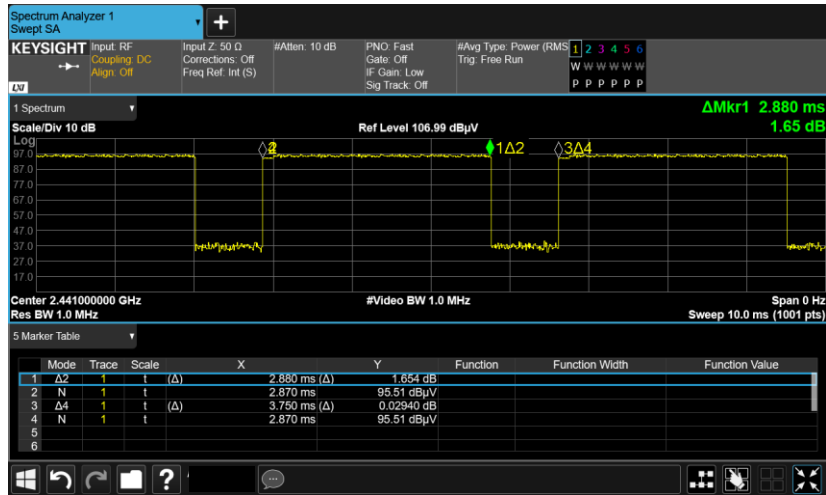


Note:

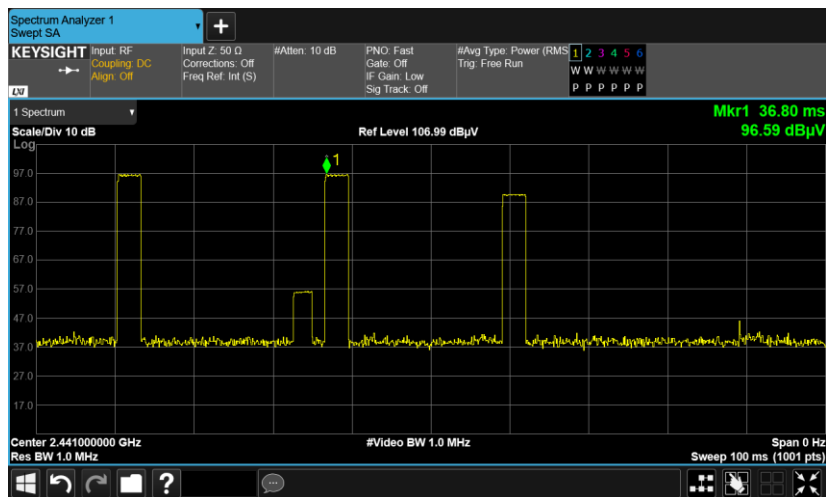
1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.

<SISO_ANT2>

3DH5 on time (One Pulse) Plot



3DH5 on time (Count Pulses) Plot

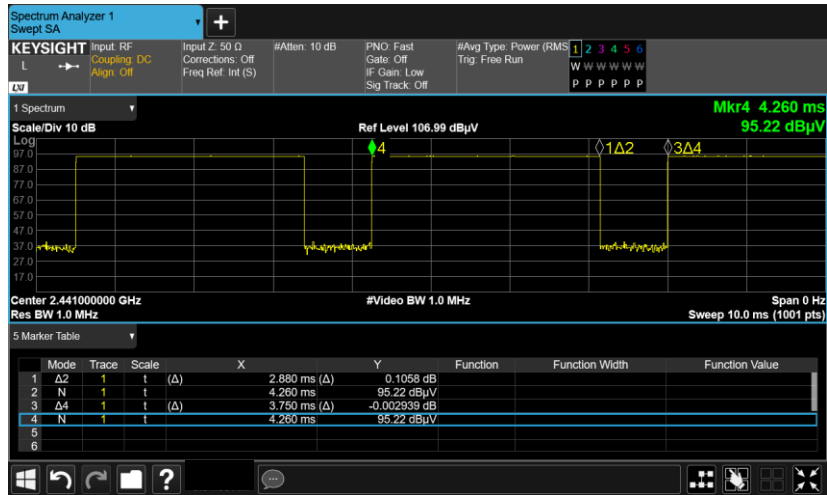


Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.

<MIMO ANT0+2>

DH5 on time (One Pulse) Plot



DH5 on time (Count Pulses) Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.