



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Carry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

Radiated Spurious Emission Test Modes

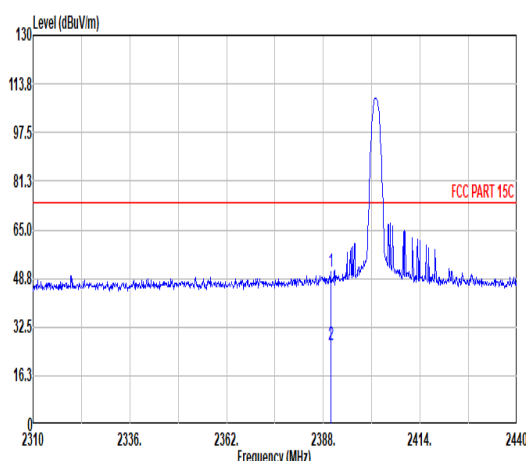
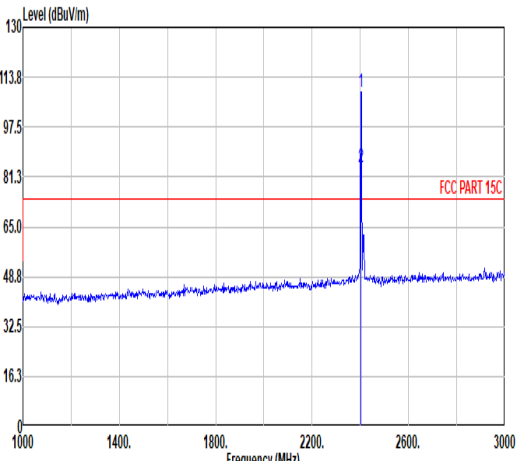
Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-
Mode 2	2400-2483.5	Bluetooth BR_GFSK	39	2441	1Mbps	-
Mode 3	2400-2483.5	Bluetooth BR_GFSK	78	2480	1Mbps	-
Mode 4	2400-2483.5	Bluetooth BR_GFSK	78	2480	1Mbps	LF



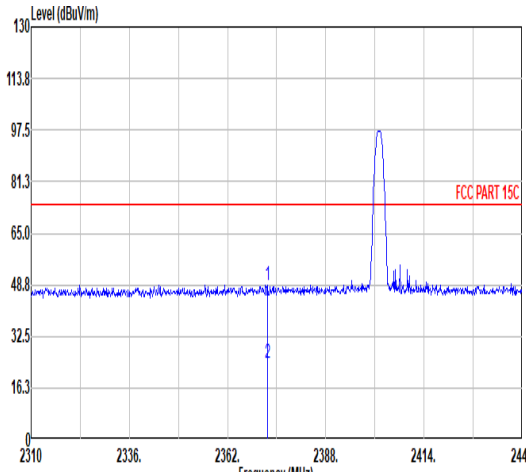
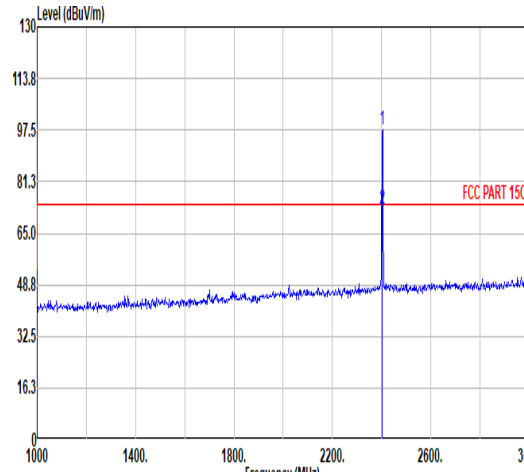
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2389.95	51.21	74.00	-22.79	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	45.11	74.00	-28.89	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	4882.00	43.62	74.00	-30.38	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.01	64.05	74.00	-9.95	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	4960	45.27	74	-28.73	H	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	78	62.01	34.72	40.00	-5.28	V	Peak	Pass	LF

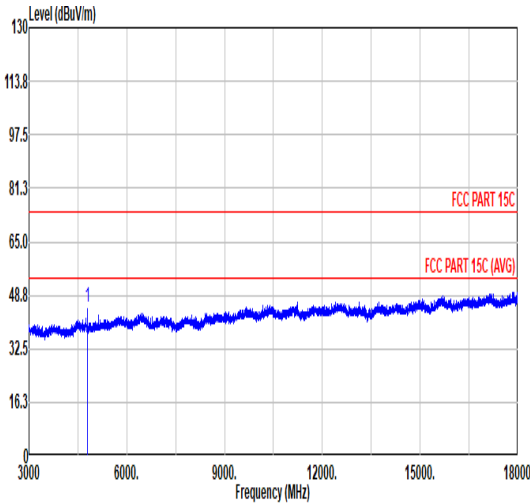
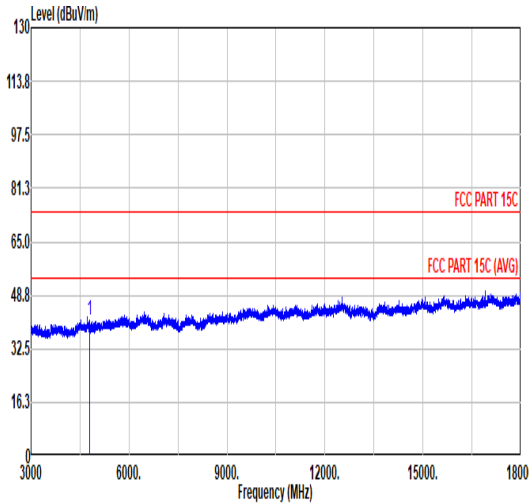


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Peak	 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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></tr><tr><td>1</td><td>2389.95</td><td>51.21</td><td>74.00</td><td>-22.79</td><td>42.24</td><td>32.38</td><td>7.11</td><td>36.52</td><td>6.00</td><td>261</td><td>0 PEAK</td></tr><tr><td>2</td><td>2389.95</td><td>26.42</td><td>54.00</td><td>-27.58</td><td>17.45</td><td>32.38</td><td>7.11</td><td>36.52</td><td>6.00</td><td>261</td><td>0 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2389.95	51.21	74.00	-22.79	42.24	32.38	7.11	36.52	6.00	261	0 PEAK	2	2389.95	26.42	54.00	-27.58	17.45	32.38	7.11	36.52	6.00	261	0 AVERAGE	 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</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>Factor</th><th></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></tr><tr><td>1</td><td>2402.00</td><td>108.88</td><td>-----</td><td>-----</td><td>99.93</td><td>32.39</td><td>7.13</td><td>36.57</td><td>6.00</td><td>261</td><td>0 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>84.09</td><td>-----</td><td>-----</td><td>75.14</td><td>32.39</td><td>7.13</td><td>36.57</td><td>6.00</td><td>261</td><td>0 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	108.88	-----	-----	99.93	32.39	7.13	36.57	6.00	261	0 PEAK	2	2402.00	84.09	-----	-----	75.14	32.39	7.13	36.57	6.00	261	0 AVERAGE
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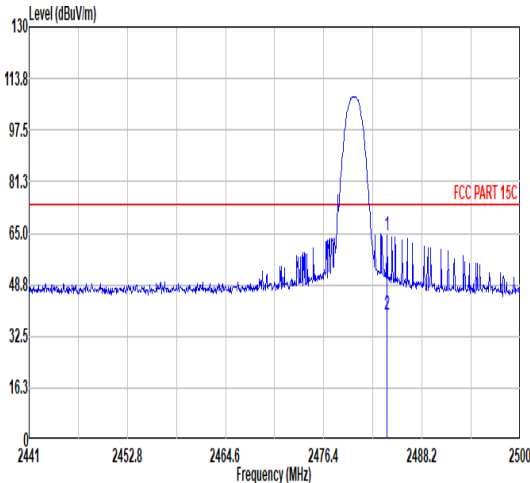
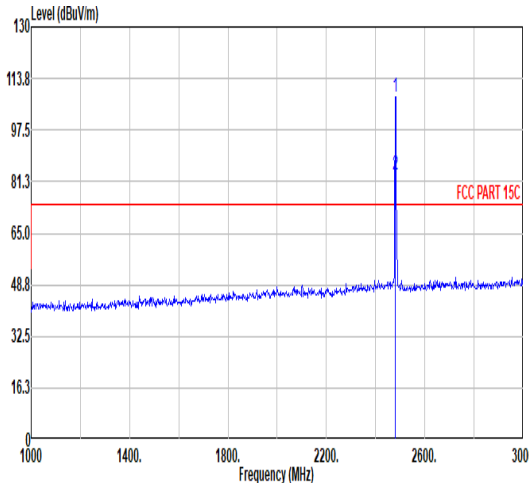


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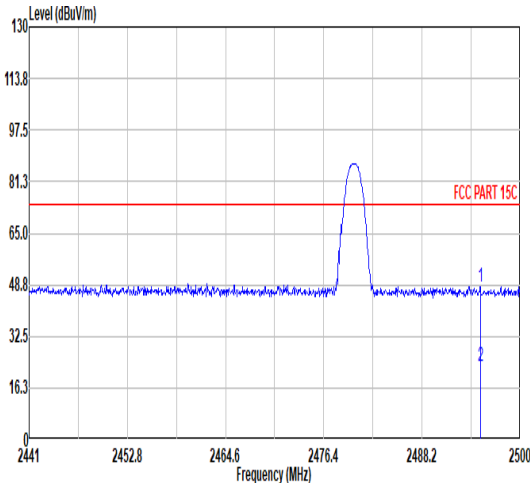
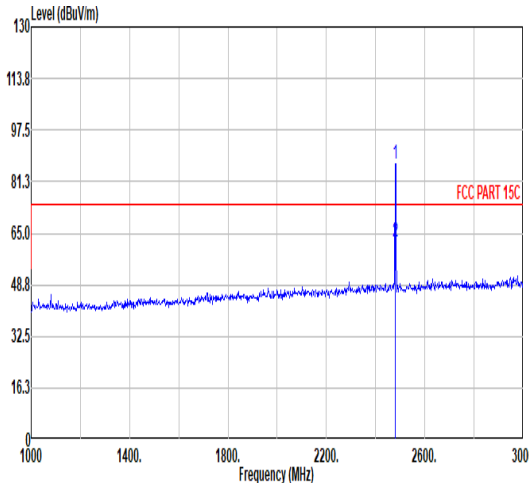


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1	2480.00	86.06	-----	-----	78.31	32.34	7.25	37.04	6.00	123	360	PEAK																																																																																																																																								
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Harmonic

2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz

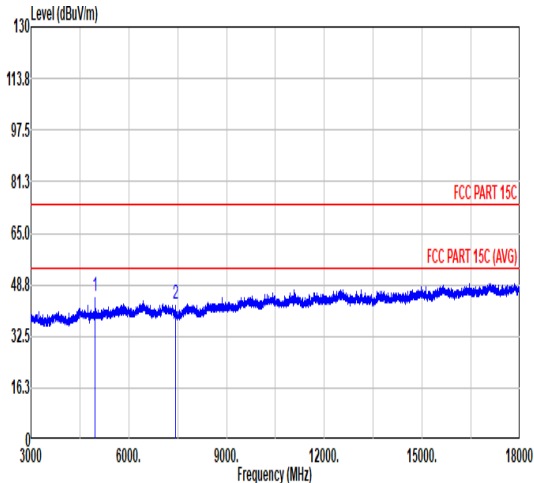
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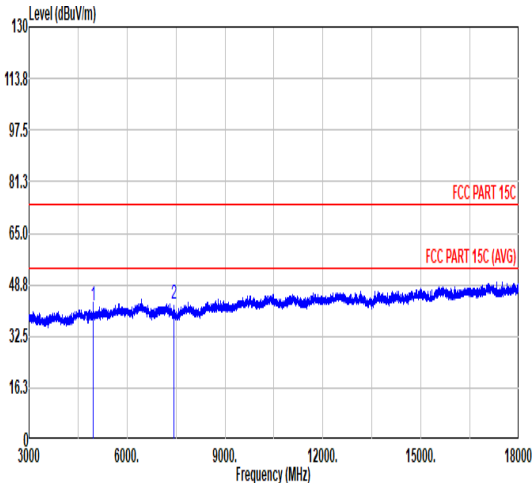
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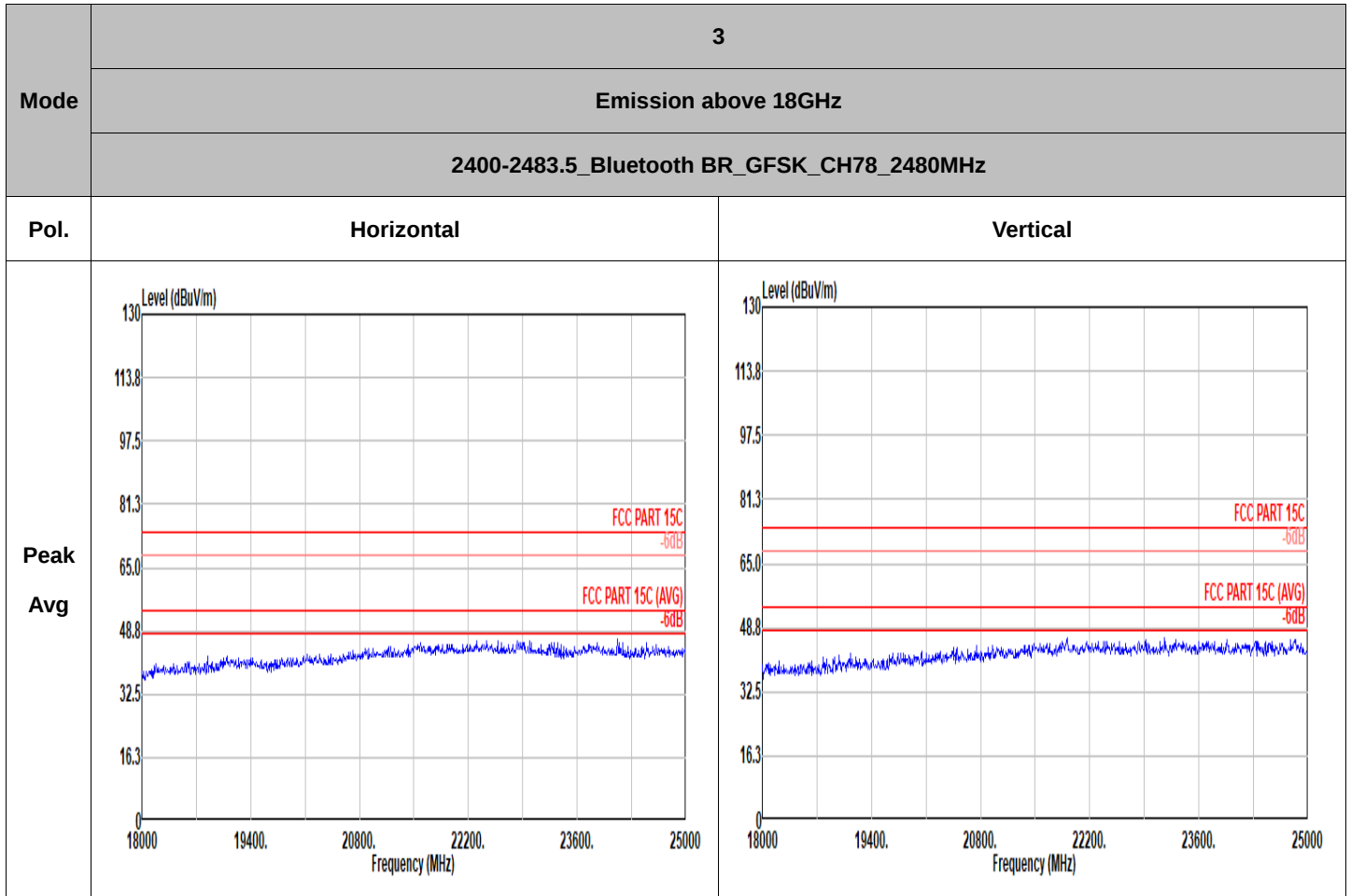
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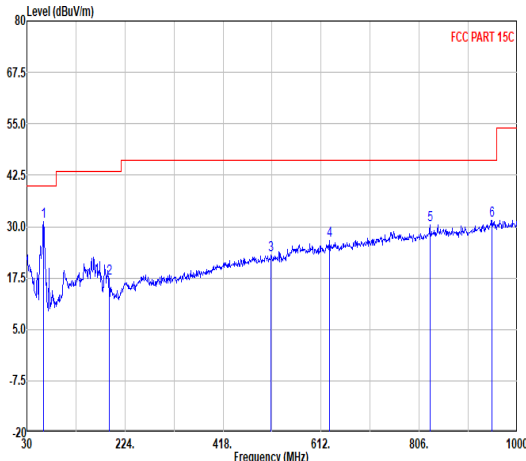
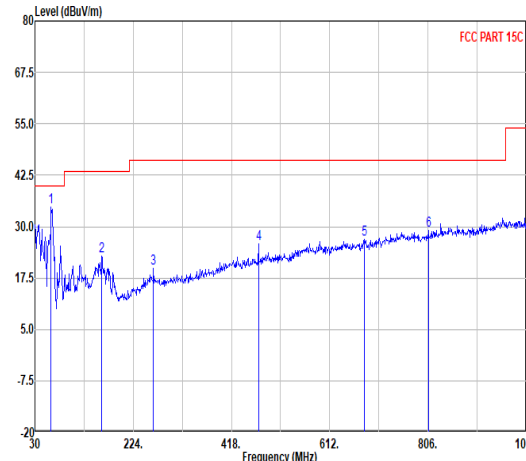
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2	7440.00	42.48	74.00	-31.52	61.04	35.79	12.78	67.13	0.00



	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
1	4960.00	42.29	74.00	-31.71	63.21	34.00	10.40	65.32	0.00
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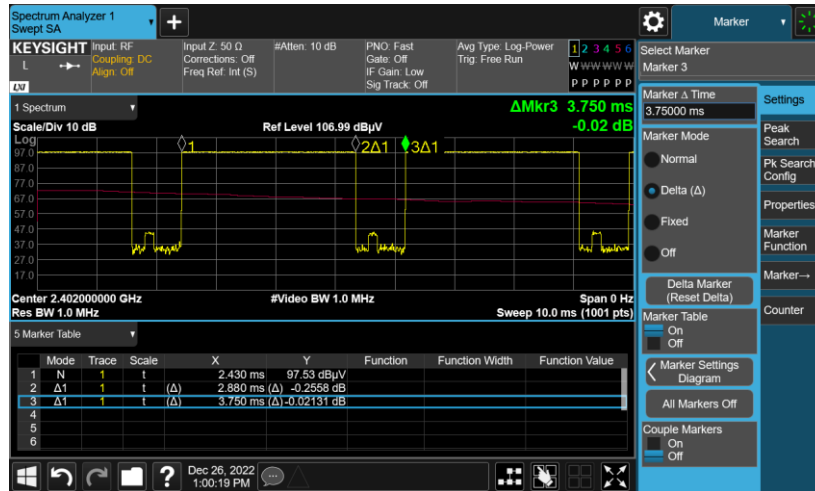




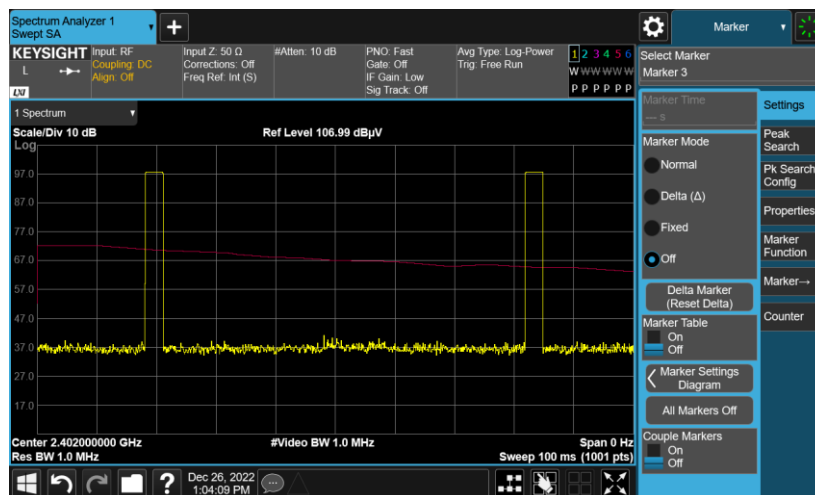
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



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.