

Appendix C. Radiated Spurious Emission Test Data

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

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 5	2400-2483.5	2	Bluetooth BR_GFSK	0	2402	1Mbps	-	-
Mode 6	2400-2483.5	2	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 7	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	1Mbps	-	-

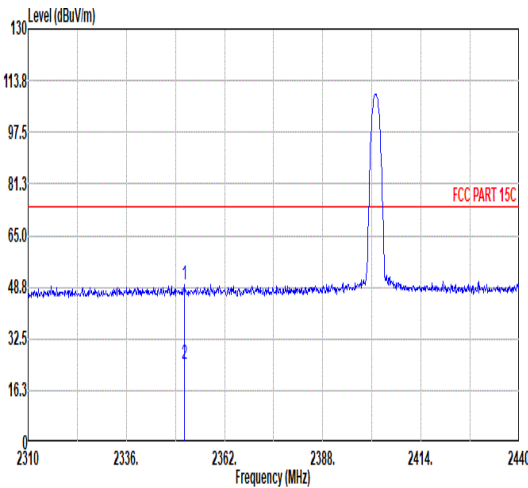
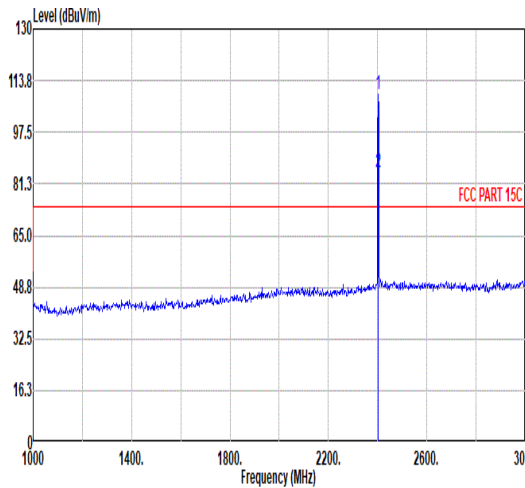
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
5	Bluetooth BR_GFSK	0	2361.09	50.05	74.00	-23.95	H	PEAK	Pass	Band Edge
5	Bluetooth BR_GFSK	0	4804.00	39.99	74.00	-34.01	V	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
6	Bluetooth BR_GFSK	39	7323.00	42.62	74.00	-31.38	H	PEAK	Pass	Harmonic
7	Bluetooth BR_GFSK	78	2483.66	52.57	74.00	-21.43	H	PEAK	Pass	Band Edge
7	Bluetooth BR_GFSK	78	7440.00	43.04	74.00	-30.96	H	PEAK	Pass	Harmonic

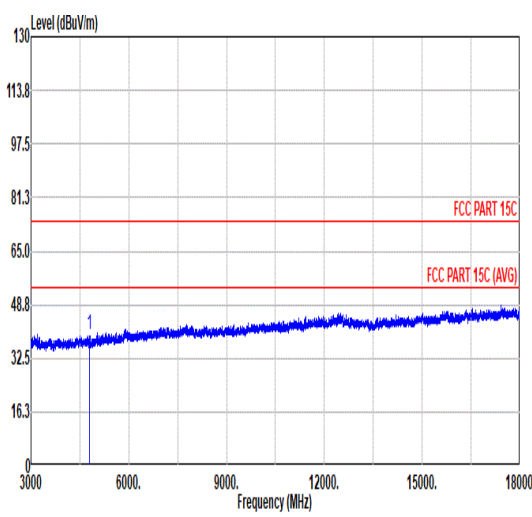
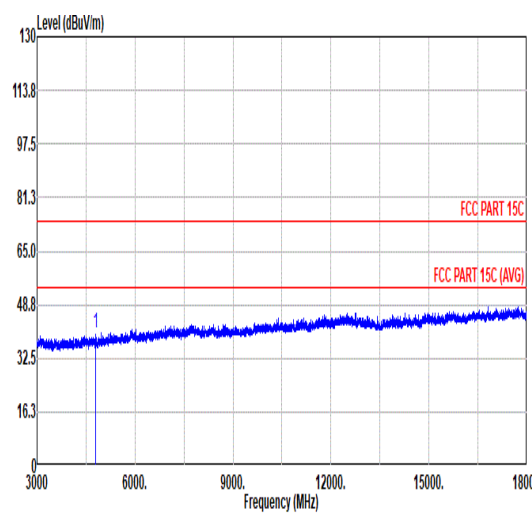


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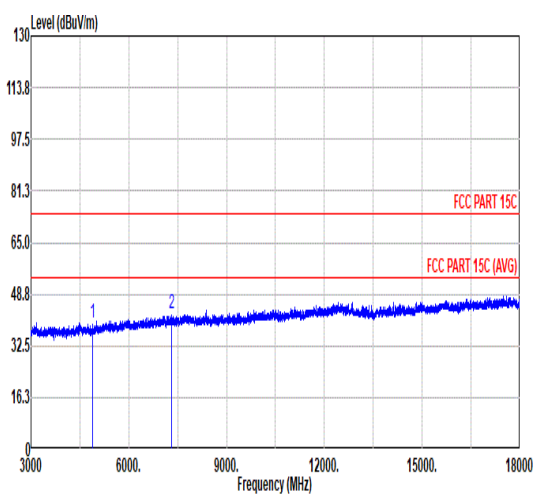
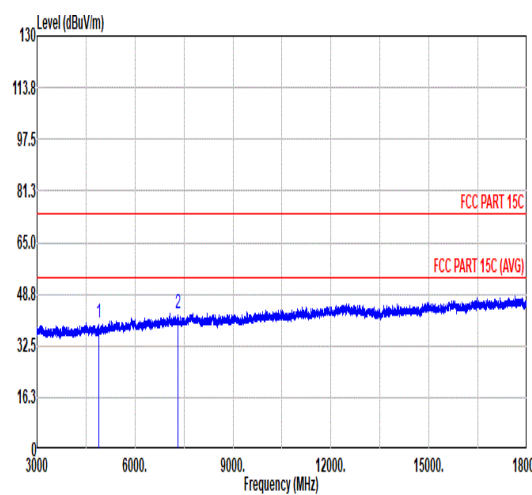


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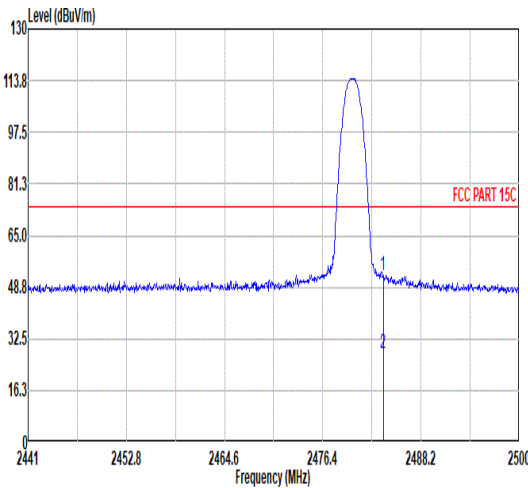
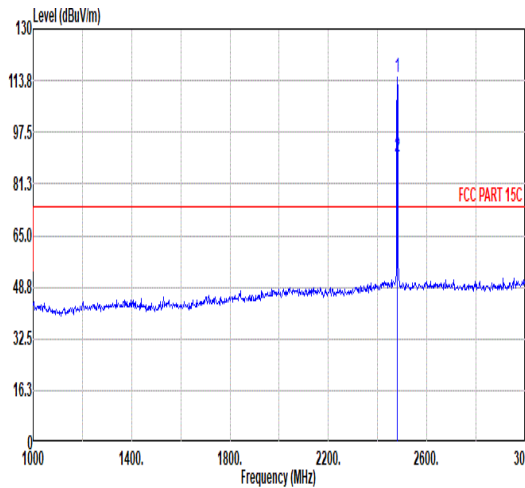


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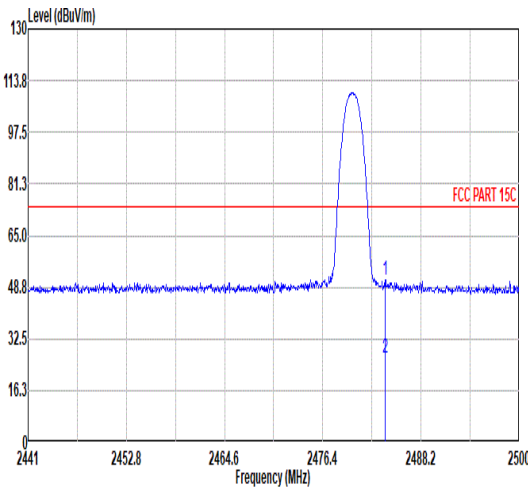
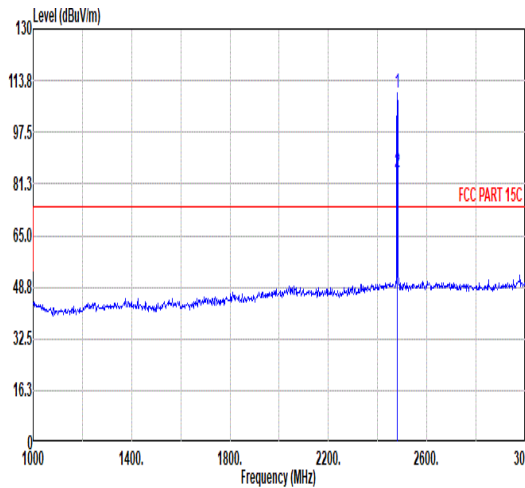


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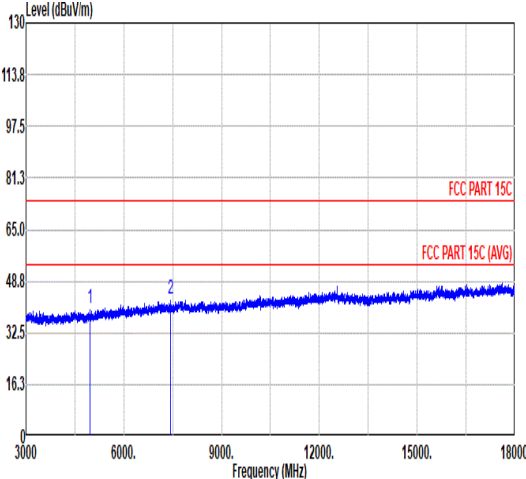
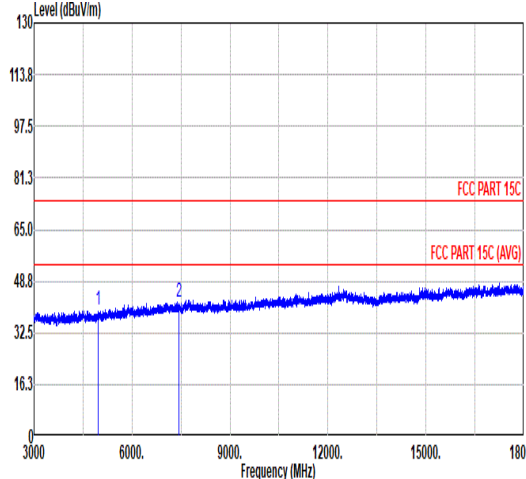


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Peak	 <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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></tr><tr><td>1</td><td>2483.66</td><td>52.57</td><td>74.00</td><td>-21.43</td><td>42.96</td><td>32.56</td><td>8.10</td><td>37.05</td><td>6.00</td><td>329</td><td>32 PEAK</td></tr><tr><td>2</td><td>2483.66</td><td>27.78</td><td>54.00</td><td>-26.22</td><td>18.17</td><td>32.56</td><td>8.10</td><td>37.05</td><td>6.00</td><td>329</td><td>32 AVERAGE</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2483.66	52.57	74.00	-21.43	42.96	32.56	8.10	37.05	6.00	329	32 PEAK	2	2483.66	27.78	54.00	-26.22	18.17	32.56	8.10	37.05	6.00	329	32 AVERAGE	 <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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></tr><tr><td>1</td><td>2480.00</td><td>114.57</td><td>-----</td><td>-----</td><td>104.92</td><td>32.60</td><td>8.10</td><td>37.05</td><td>6.00</td><td>329</td><td>32 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>89.78</td><td>-----</td><td>-----</td><td>80.13</td><td>32.60</td><td>8.10</td><td>37.05</td><td>6.00</td><td>329</td><td>32 AVERAGE</td></tr></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	114.57	-----	-----	104.92	32.60	8.10	37.05	6.00	329	32 PEAK	2	2480.00	89.78	-----	-----	80.13	32.60	8.10	37.05	6.00	329	32 AVERAGE
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																			
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1	2483.66	52.57	74.00	-21.43	42.96	32.56	8.10	37.05	6.00	329	32 PEAK																																																																																																																		
2	2483.66	27.78	54.00	-26.22	18.17	32.56	8.10	37.05	6.00	329	32 AVERAGE																																																																																																																		
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1	2480.00	114.57	-----	-----	104.92	32.60	8.10	37.05	6.00	329	32 PEAK																																																																																																																		
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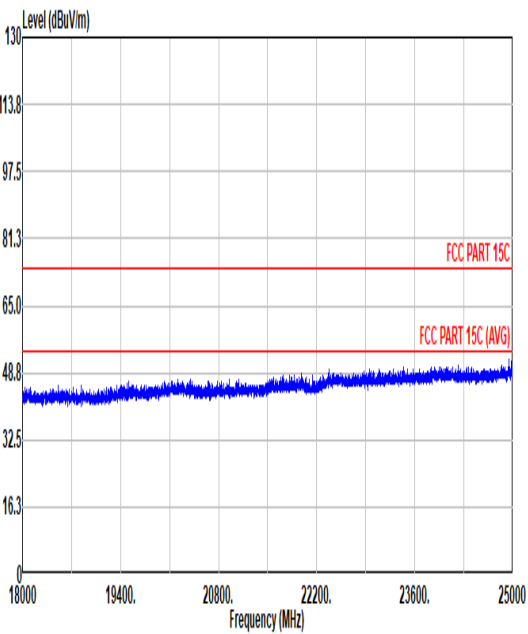
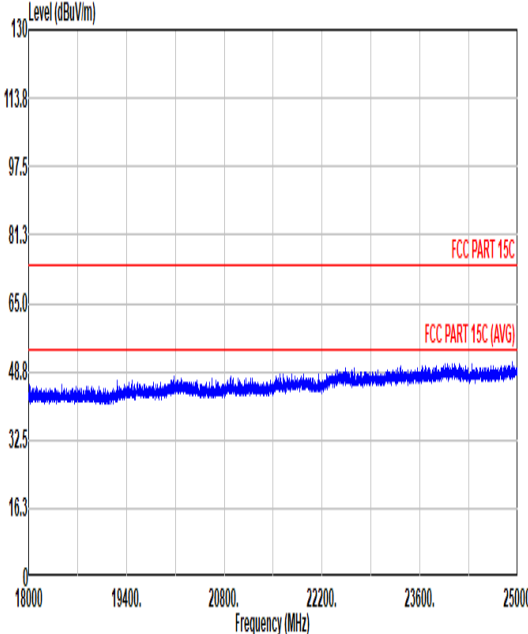


Mode	7																																																																																																																								
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																															
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2	2483.89	26.46	54.00	-27.54	16.85	32.56	8.10	37.05	6.00	216 360 AVERAGE																																																																																																															
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1	2480.00	109.86	-----	-----	100.21	32.60	8.10	37.05	6.00	216 360 PEAK																																																																																																															
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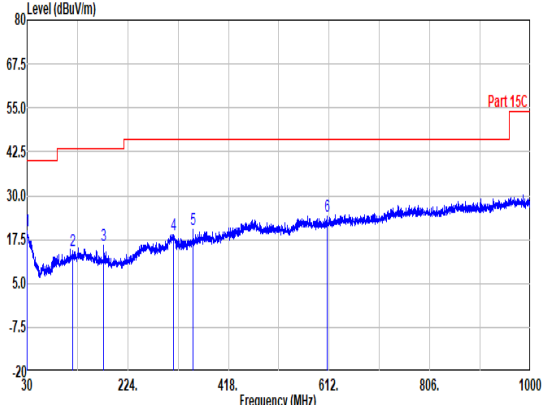
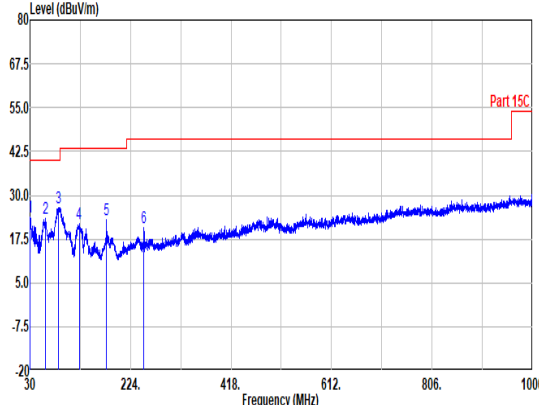


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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																				
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1	4960.00	40.13	74.00	-33.87	60.04	33.92	11.59	65.42	0.00	---	PEAK																																																																																																																			
2	7440.00	43.04	74.00	-30.96	59.28	35.00	14.23	66.27	0.00	---	PEAK																																																																																																																			
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1	4960.00	39.76	74.00	-34.24	59.67	33.92	11.59	65.42	0.00	---	PEAK																																																																																																																			
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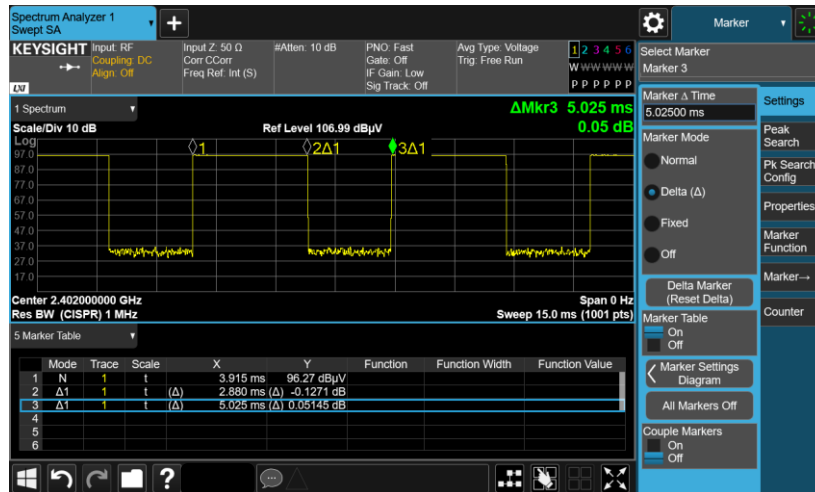
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ANT	2	
Pol.	Horizontal	Vertical
Peak Avg		



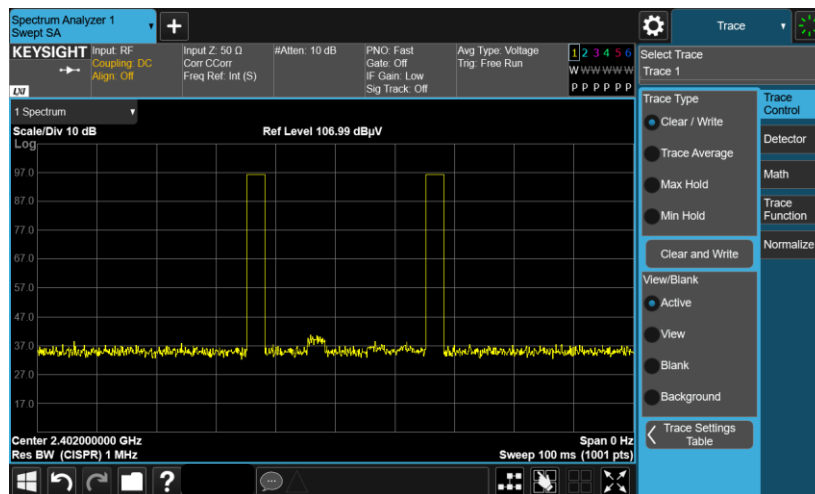
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	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																						
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																							
1	30.00	19.95	40.00	-20.05	27.24	25.17	0.35	32.81	0.00	---	---	Peak																																																																																																						
2	118.27	14.27	43.50	-29.23	28.24	17.59	1.18	32.74	0.00	---	---	Peak																																																																																																						
3	177.68	16.01	43.50	-27.49	31.98	15.34	1.46	32.77	0.00	---	---	Peak																																																																																																						
4	311.54	18.97	46.00	-27.03	30.26	19.62	1.94	32.85	0.00	---	---	Peak																																																																																																						
5	349.86	20.45	46.00	-25.55	30.63	20.65	2.05	32.88	0.00	---	---	Peak																																																																																																						
6	607.64	24.20	46.00	-21.80	28.68	26.08	2.69	33.25	0.00	---	---	Peak																																																																																																						
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	<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</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></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>30.73</td><td>23.84</td><td>40.00</td><td>-16.16</td><td>31.48</td><td>24.81</td><td>0.36</td><td>32.81</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>60.07</td><td>23.49</td><td>40.00</td><td>-16.51</td><td>43.42</td><td>12.13</td><td>0.66</td><td>32.72</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>85.53</td><td>26.36</td><td>40.00</td><td>-13.64</td><td>43.71</td><td>14.37</td><td>0.94</td><td>32.66</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>124.82</td><td>21.75</td><td>43.50</td><td>-21.75</td><td>35.55</td><td>17.73</td><td>1.21</td><td>32.74</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>177.68</td><td>23.12</td><td>43.50</td><td>-20.38</td><td>39.09</td><td>15.34</td><td>1.46</td><td>32.77</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>249.95</td><td>20.60</td><td>46.00</td><td>-25.40</td><td>32.85</td><td>18.80</td><td>1.74</td><td>32.79</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>												Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	30.73	23.84	40.00	-16.16	31.48	24.81	0.36	32.81	0.00	---	---	Peak	2	60.07	23.49	40.00	-16.51	43.42	12.13	0.66	32.72	0.00	---	---	Peak	3	85.53	26.36	40.00	-13.64	43.71	14.37	0.94	32.66	0.00	---	---	Peak	4	124.82	21.75	43.50	-21.75	35.55	17.73	1.21	32.74	0.00	---	---	Peak	5	177.68	23.12	43.50	-20.38	39.09	15.34	1.46	32.77	0.00	---	---	Peak	6	249.95	20.60	46.00	-25.40	32.85	18.80	1.74	32.79	0.00	---	---
	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																						
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																							
1	30.73	23.84	40.00	-16.16	31.48	24.81	0.36	32.81	0.00	---	---	Peak																																																																																																						
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 0



DH5 on time (Count Pulses) Plot on Channel 0



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.