



Appendix C. Radiated Spurious Emission Test Data

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

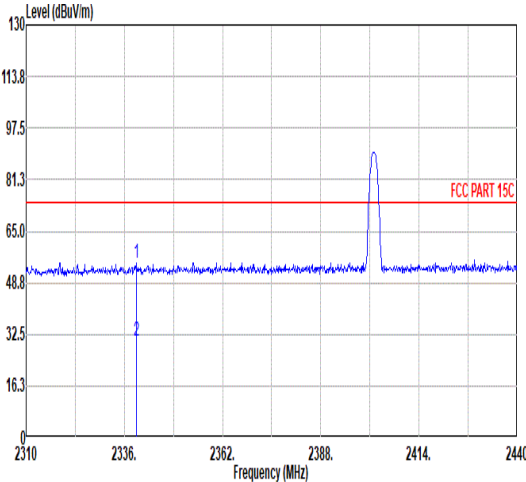
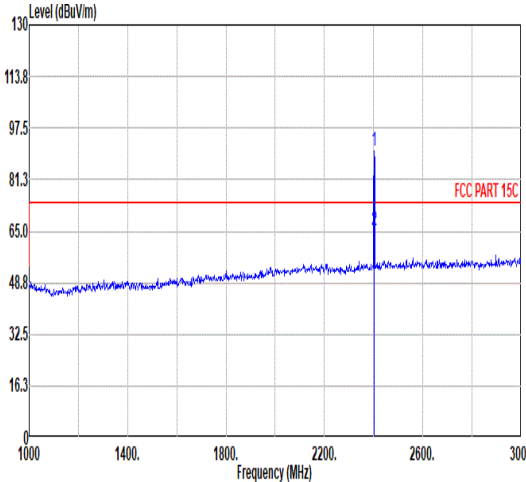
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	2	Bluetooth BR_GFSK	0	2402	-	-	-
Mode 2	2400-2483.5	2	Bluetooth BR_GFSK	39	2441	-	-	-
Mode 3	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	-	-	-

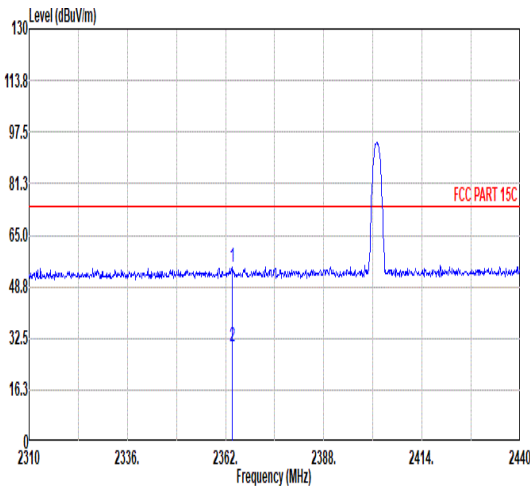
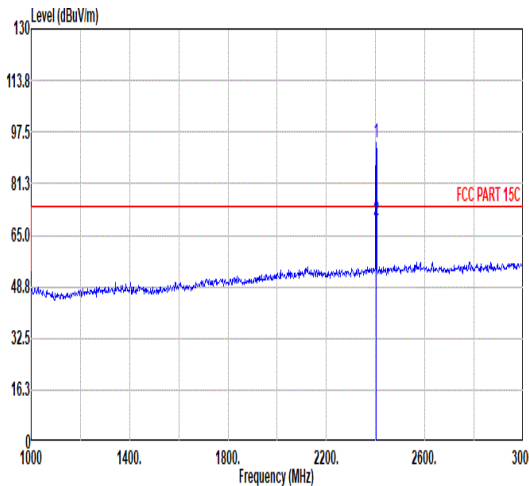
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	0	2339.12	55.11	74.00	-18.89	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	39.83	74.00	-34.17	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	42.15	74.00	-31.85	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2497.70	55.29	74.00	-18.71	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	41.51	74.00	-32.49	H	PEAK	Pass	Harmonic

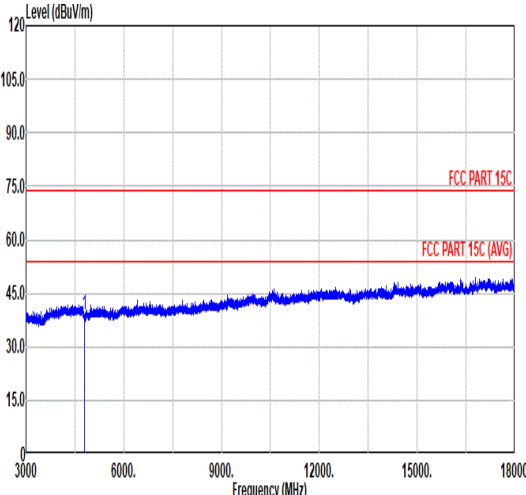
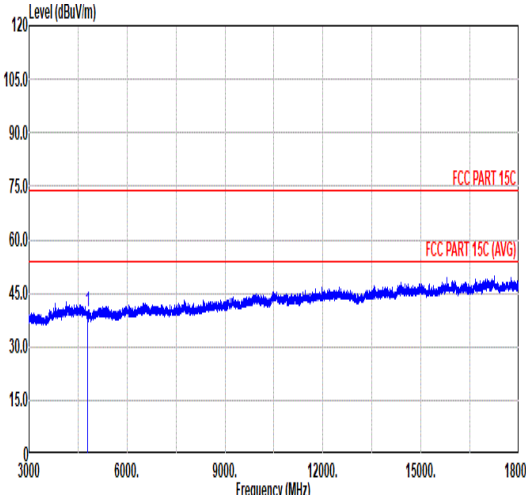


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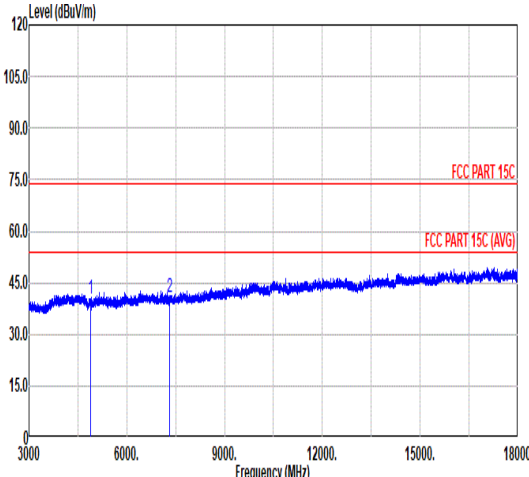
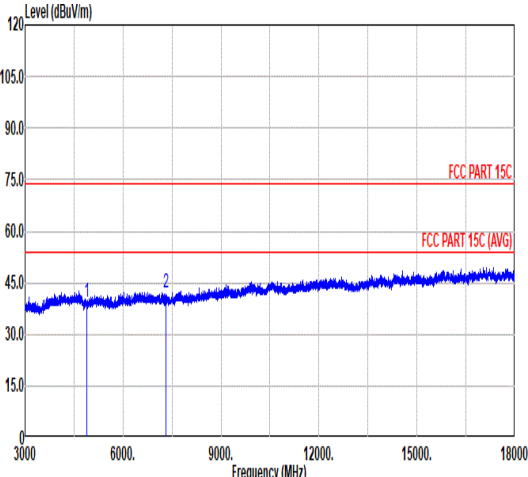


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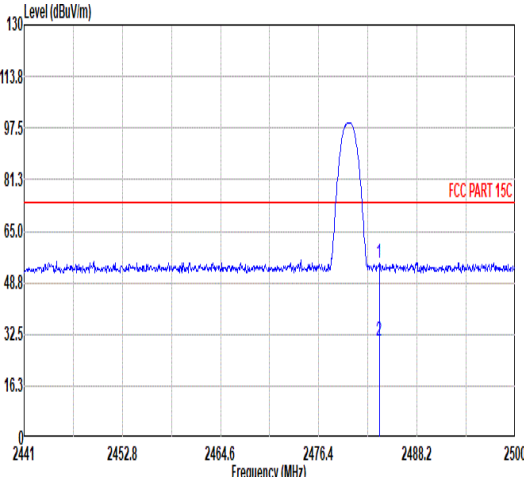
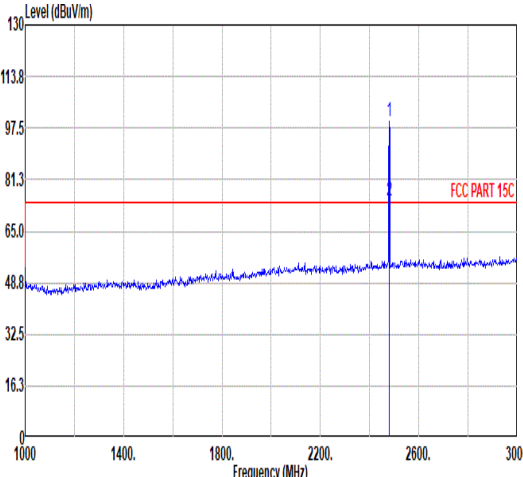


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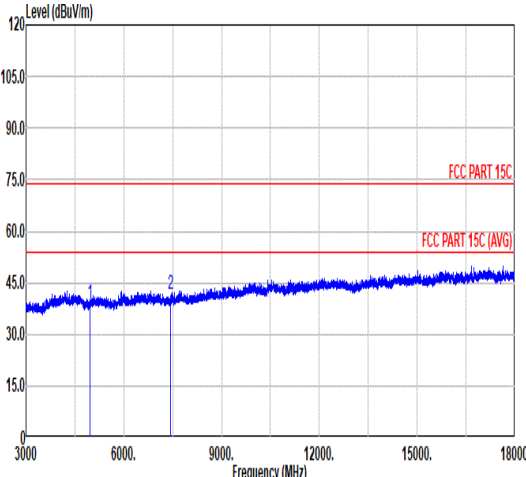
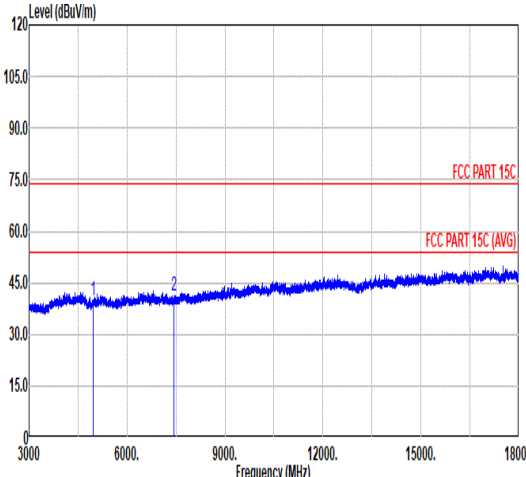


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Pol.	Horizontal						Fundamental																																																																																																																						
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	<table><tr><th></th><th>Limit</th><th>Over</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>55.09</td><td>74.00</td><td>-18.91</td><td>42.10</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>123</td><td>116 PEAK</td></tr><tr><td>2</td><td>2483.66</td><td>30.30</td><td>54.00</td><td>-23.70</td><td>17.31</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>123</td><td>116 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	55.09	74.00	-18.91	42.10	32.50	6.82	32.33	6.00	123	116 PEAK	2	2483.66	30.30	54.00	-23.70	17.31	32.50	6.82	32.33	6.00	123	116 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>99.38</td><td>-----</td><td>-----</td><td>86.39</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>123</td><td>116 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>74.59</td><td>-----</td><td>-----</td><td>61.60</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>123</td><td>116 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	99.38	-----	-----	86.39	32.50	6.82	32.33	6.00	123	116 PEAK	2	2480.00	74.59	-----	-----	61.60	32.50	6.82	32.33	6.00	123	116 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	55.09	74.00	-18.91	42.10	32.50	6.82	32.33	6.00	123	116 PEAK																																																																																																																		
2	2483.66	30.30	54.00	-23.70	17.31	32.50	6.82	32.33	6.00	123	116 AVERAGE																																																																																																																		
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																			
1	2480.00	99.38	-----	-----	86.39	32.50	6.82	32.33	6.00	123	116 PEAK																																																																																																																		
2	2480.00	74.59	-----	-----	61.60	32.50	6.82	32.33	6.00	123	116 AVERAGE																																																																																																																		

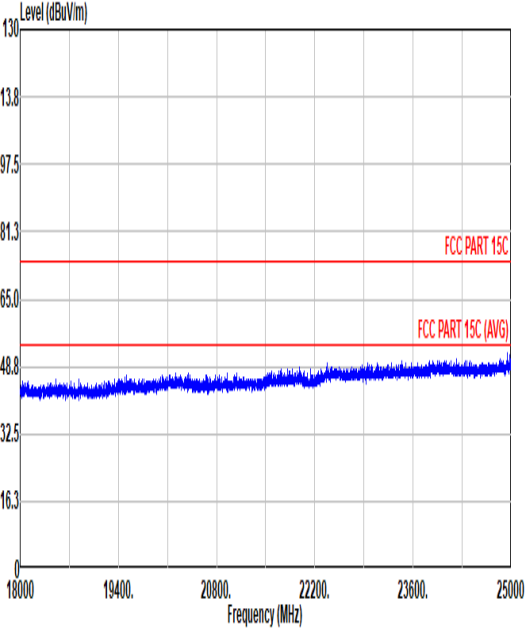
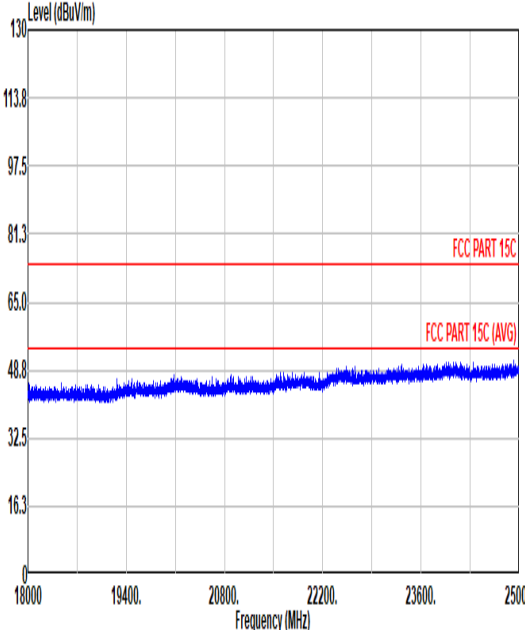


Mode	3																																																																						
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ANT	2																																																																						
Pol.	Vertical						Fundamental																																																																
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	<table><tr><th colspan="2"></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 rowspan="2">Remark</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></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></tr><tr><td>1</td><td>2497.70</td><td>55.29</td><td>74.00</td><td>-18.71</td><td>42.28</td><td>32.50</td><td>6.84</td><td>32.33</td><td>6.00</td><td>306</td><td>137 PEAK</td></tr><tr><td>2</td><td>2497.70</td><td>30.50</td><td>54.00</td><td>-23.50</td><td>17.49</td><td>32.50</td><td>6.84</td><td>32.33</td><td>6.00</td><td>306</td><td>137 AVERAGE</td></tr></table>														Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2497.70	55.29	74.00	-18.71	42.28	32.50	6.84	32.33	6.00	306	137 PEAK	2	2497.70	30.50	54.00	-23.50	17.49	32.50	6.84	32.33	6.00	306	137 AVERAGE
			Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																												
1	2497.70	55.29	74.00	-18.71	42.28	32.50	6.84	32.33	6.00	306	137 PEAK																																																												
2	2497.70	30.50	54.00	-23.50	17.49	32.50	6.84	32.33	6.00	306	137 AVERAGE																																																												
<table><tr><th colspan="2"></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 rowspan="2">Remark</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></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></tr><tr><td>1</td><td>2480.00</td><td>93.23</td><td>-----</td><td>-----</td><td>80.24</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>306</td><td>137 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>68.44</td><td>-----</td><td>-----</td><td>55.45</td><td>32.50</td><td>6.82</td><td>32.33</td><td>6.00</td><td>306</td><td>137 AVERAGE</td></tr></table>														Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2480.00	93.23	-----	-----	80.24	32.50	6.82	32.33	6.00	306	137 PEAK	2	2480.00	68.44	-----	-----	55.45	32.50	6.82	32.33	6.00	306	137 AVERAGE	
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																												
1	2480.00	93.23	-----	-----	80.24	32.50	6.82	32.33	6.00	306	137 PEAK																																																												
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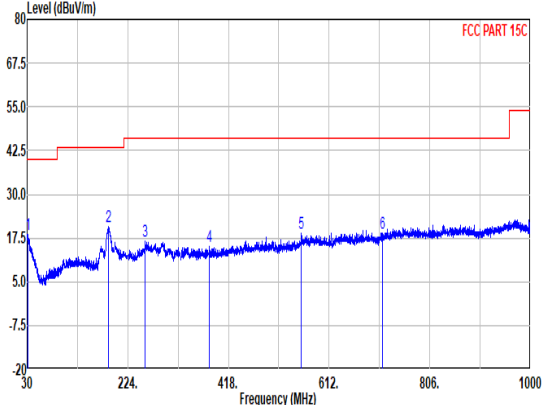
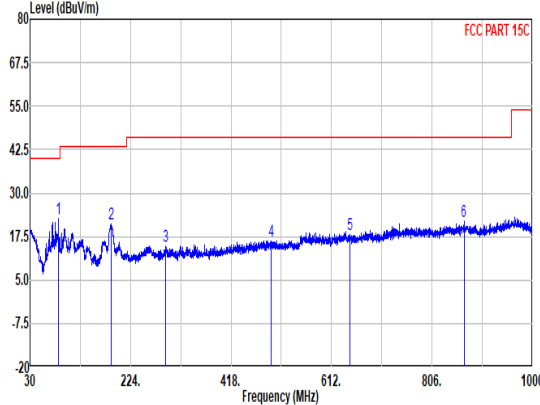


Mode	3																																																																			
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ANT	2																																																																			
Pol.	Horizontal						Vertical																																																													
Peak Avg																																																																				
	<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>4960.00</td><td>39.15</td><td>74.00</td><td>-34.85</td><td>61.19</td><td>34.04</td><td>9.76</td><td>65.84</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.51</td><td>74.00</td><td>-32.49</td><td>60.03</td><td>35.78</td><td>12.03</td><td>66.33</td><td>0.00</td><td>---</td><td>PEAK</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	4960.00	39.15	74.00	-34.85	61.19	34.04	9.76	65.84	0.00	---	PEAK	2	7440.00	41.51	74.00	-32.49	60.03	35.78	12.03	66.33	0.00	---	PEAK
		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	4960.00	39.15	74.00	-34.85	61.19	34.04	9.76	65.84	0.00	---	PEAK																																																									
2	7440.00	41.51	74.00	-32.49	60.03	35.78	12.03	66.33	0.00	---	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>4960.00</td><td>39.72</td><td>74.00</td><td>-34.28</td><td>61.76</td><td>34.04</td><td>9.76</td><td>65.84</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.24</td><td>74.00</td><td>-32.76</td><td>59.76</td><td>35.78</td><td>12.03</td><td>66.33</td><td>0.00</td><td>---</td><td>PEAK</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	4960.00	39.72	74.00	-34.28	61.76	34.04	9.76	65.84	0.00	---	PEAK	2	7440.00	41.24	74.00	-32.76	59.76	35.78	12.03	66.33	0.00	---	PEAK	
	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	4960.00	39.72	74.00	-34.28	61.76	34.04	9.76	65.84	0.00	---	PEAK																																																									
2	7440.00	41.24	74.00	-32.76	59.76	35.78	12.03	66.33	0.00	---	PEAK																																																									



Mode	3	
	18G-25G	
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ANT	2	
Pol.	Horizontal	Vertical
Peak Avg		



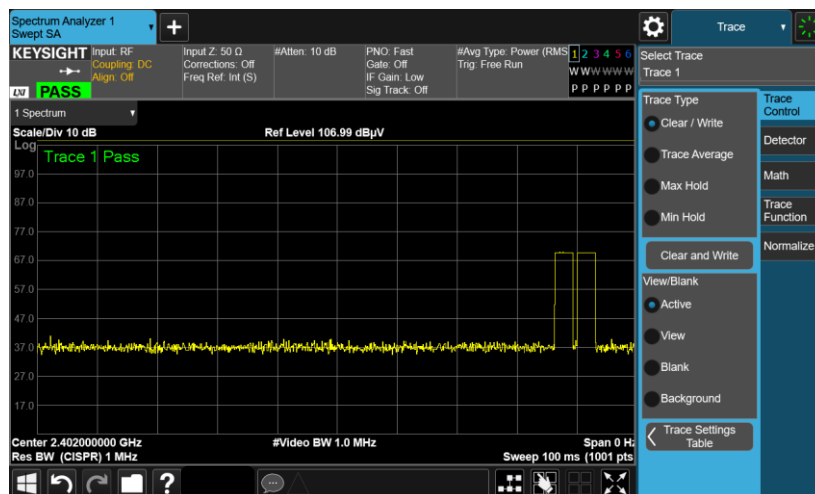
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Pol.	Horizontal																																																																																																																		
Peak Avg																																																																																																																			
	<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>30.97</td><td>18.45</td><td>40.00</td><td>-21.55</td><td>25.51</td><td>24.72</td><td>0.49</td><td>32.27</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>186.41</td><td>20.65</td><td>43.50</td><td>-22.85</td><td>36.17</td><td>14.79</td><td>1.87</td><td>32.18</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>257.71</td><td>16.45</td><td>46.00</td><td>-29.55</td><td>26.72</td><td>19.82</td><td>2.20</td><td>32.29</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>380.90</td><td>15.14</td><td>46.00</td><td>-30.86</td><td>23.79</td><td>20.96</td><td>2.69</td><td>32.30</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>558.41</td><td>18.68</td><td>46.00</td><td>-27.32</td><td>22.00</td><td>26.02</td><td>3.24</td><td>32.58</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>714.58</td><td>19.04</td><td>46.00</td><td>-26.96</td><td>21.03</td><td>26.76</td><td>3.66</td><td>32.41</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	30.97	18.45	40.00	-21.55	25.51	24.72	0.49	32.27	0.00	---	---	Peak	2	186.41	20.65	43.50	-22.85	36.17	14.79	1.87	32.18	0.00	---	---	Peak	3	257.71	16.45	46.00	-29.55	26.72	19.82	2.20	32.29	0.00	---	---	Peak	4	380.90	15.14	46.00	-30.86	23.79	20.96	2.69	32.30	0.00	---	---	Peak	5	558.41	18.68	46.00	-27.32	22.00	26.02	3.24	32.58	0.00	---	---	Peak	6	714.58	19.04	46.00	-26.96	21.03	26.76	3.66	32.41	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	30.97	18.45	40.00	-21.55	25.51	24.72	0.49	32.27	0.00	---	---	Peak																																																																																																							
2	186.41	20.65	43.50	-22.85	36.17	14.79	1.87	32.18	0.00	---	---	Peak																																																																																																							
3	257.71	16.45	46.00	-29.55	26.72	19.82	2.20	32.29	0.00	---	---	Peak																																																																																																							
4	380.90	15.14	46.00	-30.86	23.79	20.96	2.69	32.30	0.00	---	---	Peak																																																																																																							
5	558.41	18.68	46.00	-27.32	22.00	26.02	3.24	32.58	0.00	---	---	Peak																																																																																																							
6	714.58	19.04	46.00	-26.96	21.03	26.76	3.66	32.41	0.00	---	---	Peak																																																																																																							
Peak Avg																																																																																																																			
	<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>85.05</td><td>22.50</td><td>40.00</td><td>-17.50</td><td>39.52</td><td>14.05</td><td>1.18</td><td>32.25</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>186.17</td><td>21.05</td><td>43.50</td><td>-22.45</td><td>36.57</td><td>14.79</td><td>1.87</td><td>32.18</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>291.42</td><td>14.67</td><td>46.00</td><td>-31.33</td><td>25.70</td><td>18.97</td><td>2.35</td><td>32.35</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>496.09</td><td>16.17</td><td>46.00</td><td>-29.83</td><td>21.64</td><td>23.80</td><td>3.06</td><td>32.33</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>646.92</td><td>18.03</td><td>46.00</td><td>-27.97</td><td>20.65</td><td>26.38</td><td>3.48</td><td>32.48</td><td>0.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>867.60</td><td>21.77</td><td>46.00</td><td>-24.23</td><td>20.31</td><td>29.10</td><td>4.04</td><td>31.68</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	85.05	22.50	40.00	-17.50	39.52	14.05	1.18	32.25	0.00	---	---	Peak	2	186.17	21.05	43.50	-22.45	36.57	14.79	1.87	32.18	0.00	---	---	Peak	3	291.42	14.67	46.00	-31.33	25.70	18.97	2.35	32.35	0.00	---	---	Peak	4	496.09	16.17	46.00	-29.83	21.64	23.80	3.06	32.33	0.00	---	---	Peak	5	646.92	18.03	46.00	-27.97	20.65	26.38	3.48	32.48	0.00	---	---	Peak	6	867.60	21.77	46.00	-24.23	20.31	29.10	4.04	31.68	0.00	---	---
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 78



DH5 on time (Count Pulses) Plot on Channel 78



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.