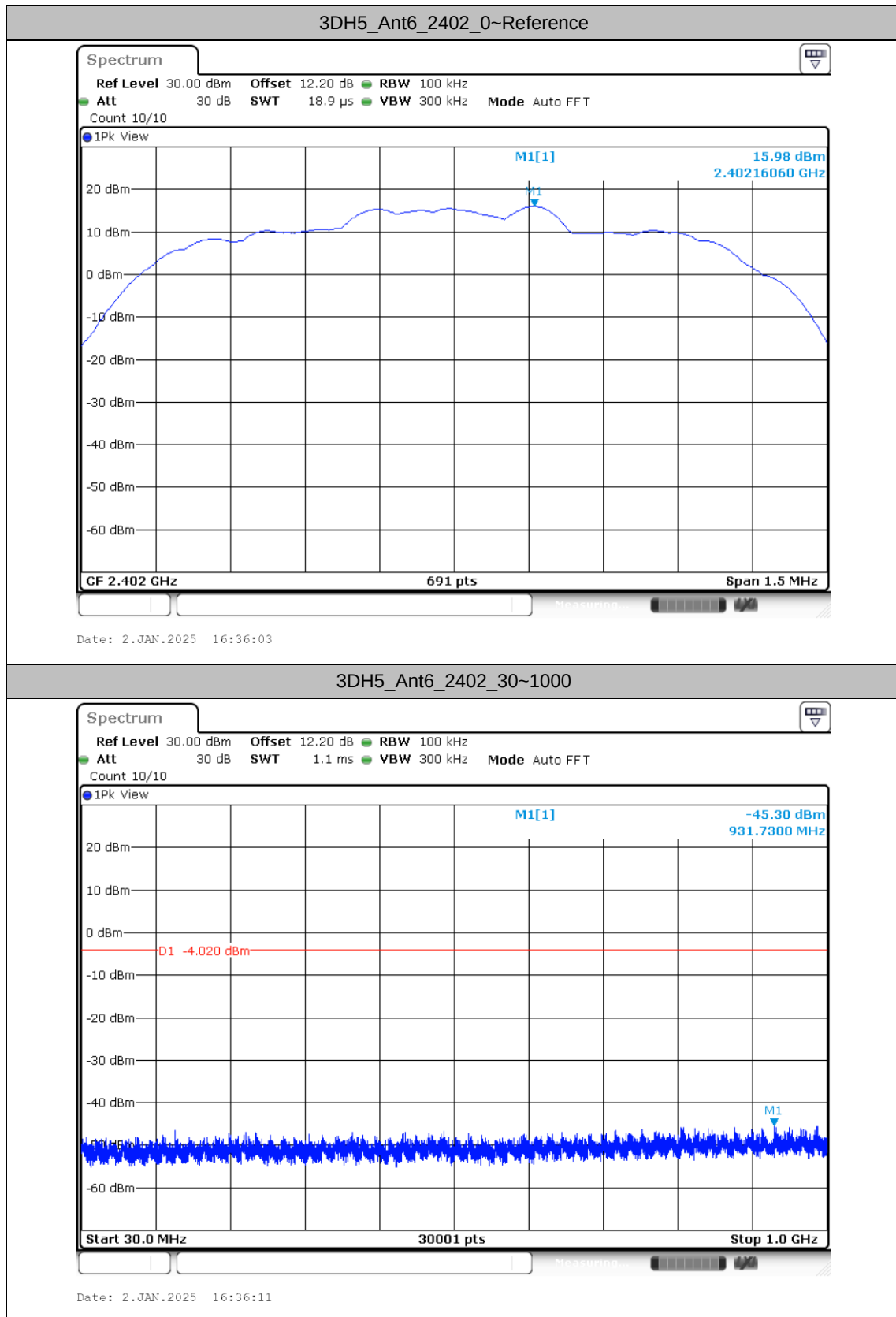
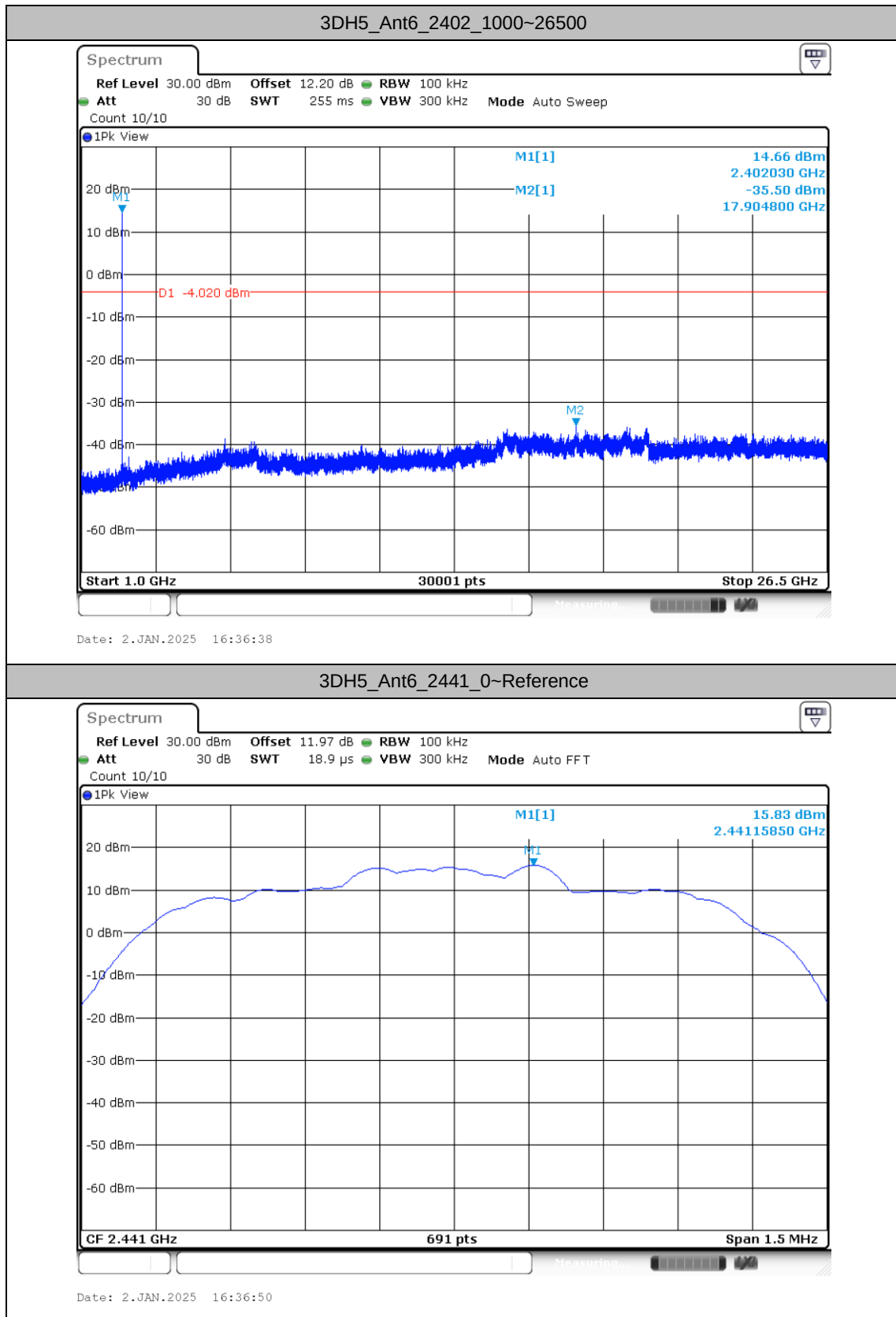
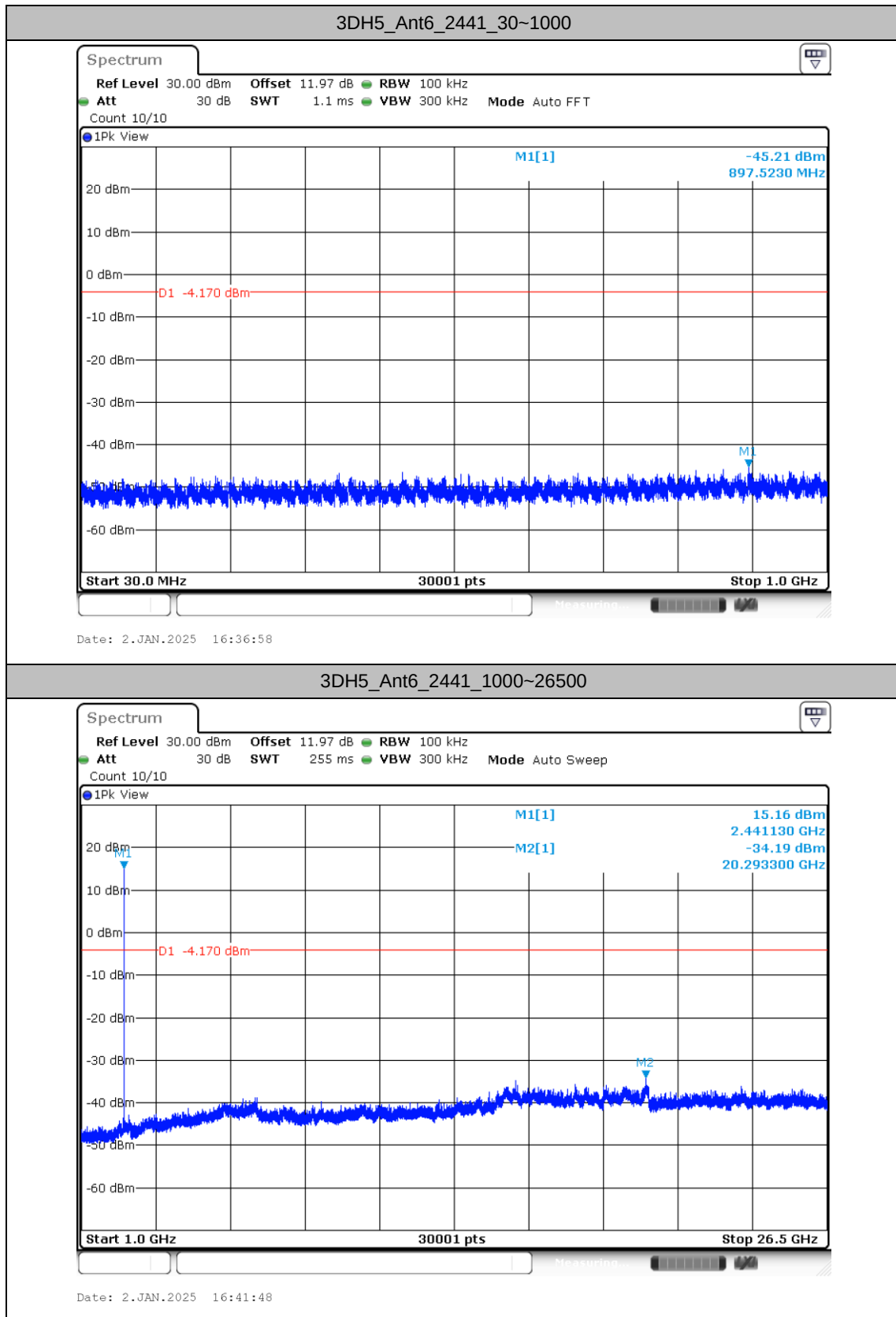
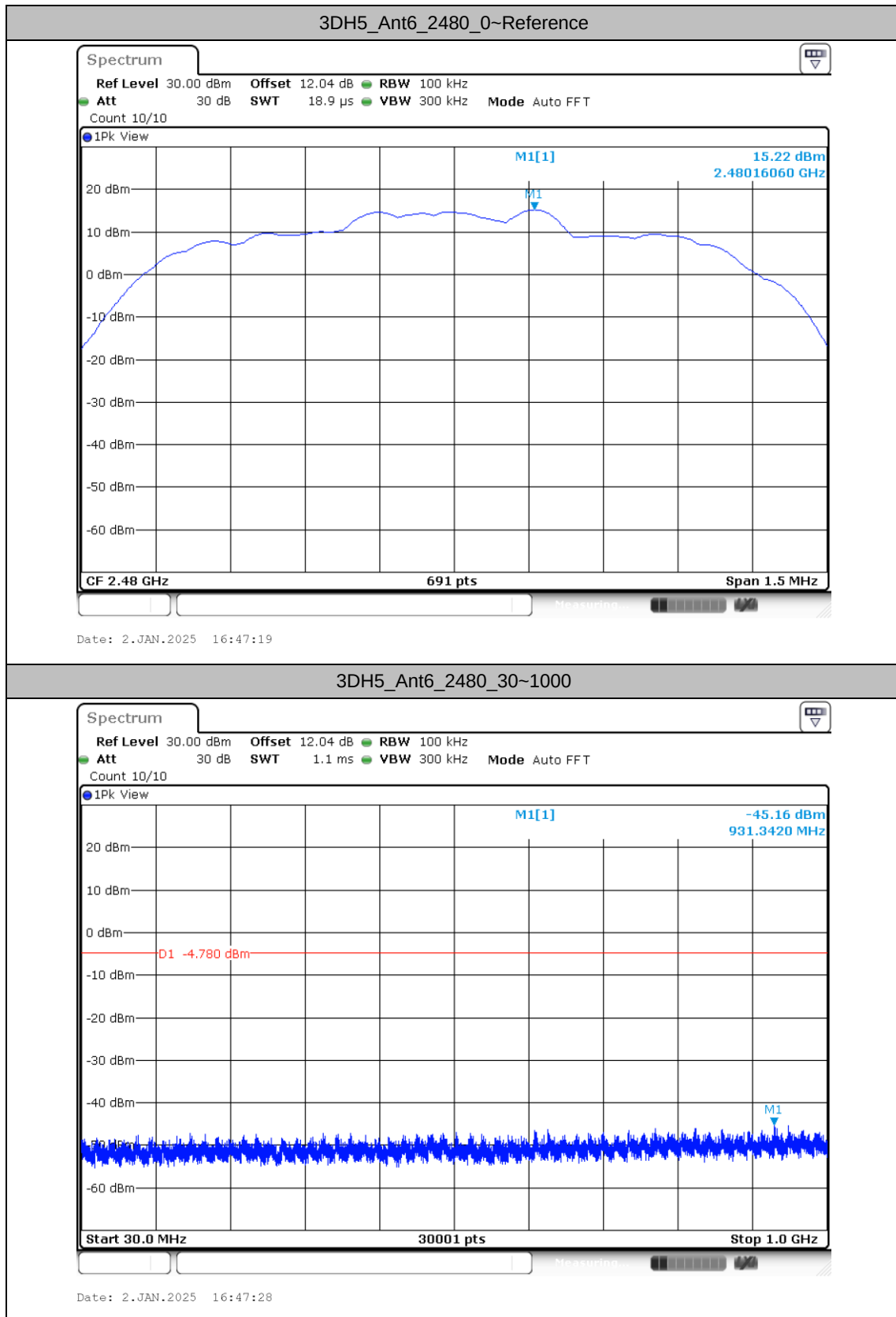
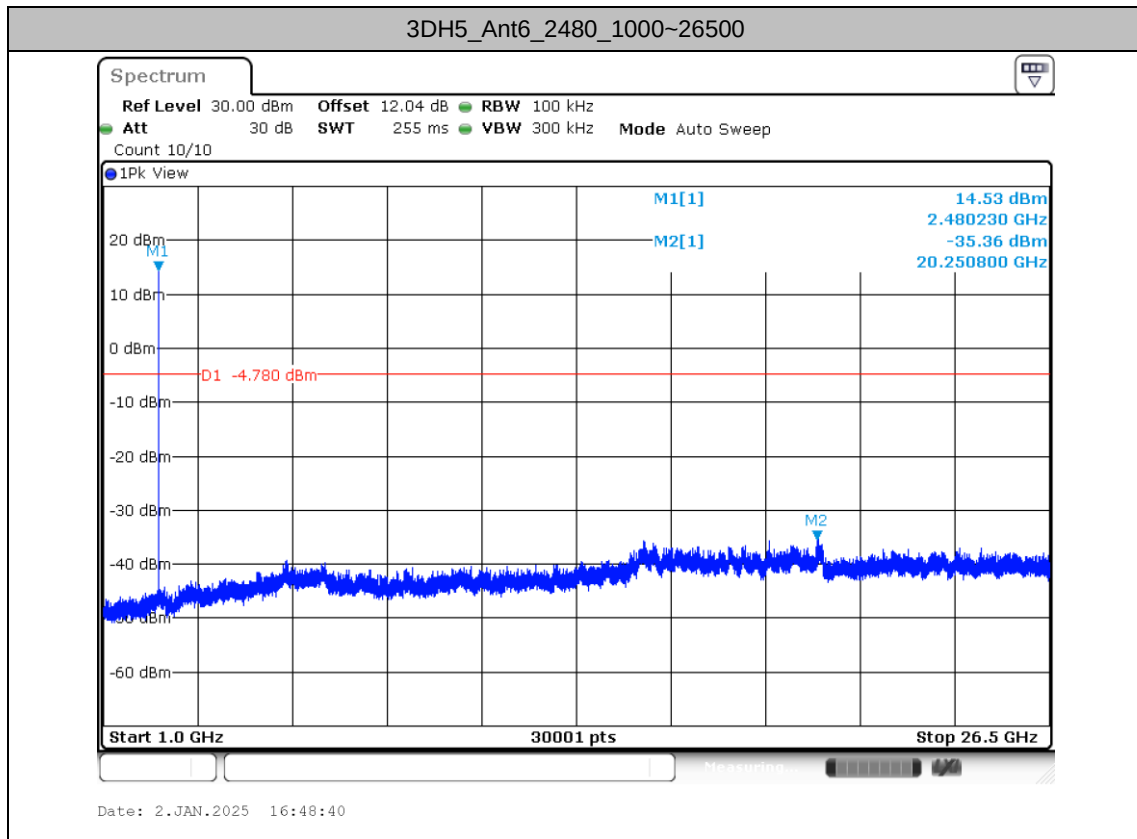






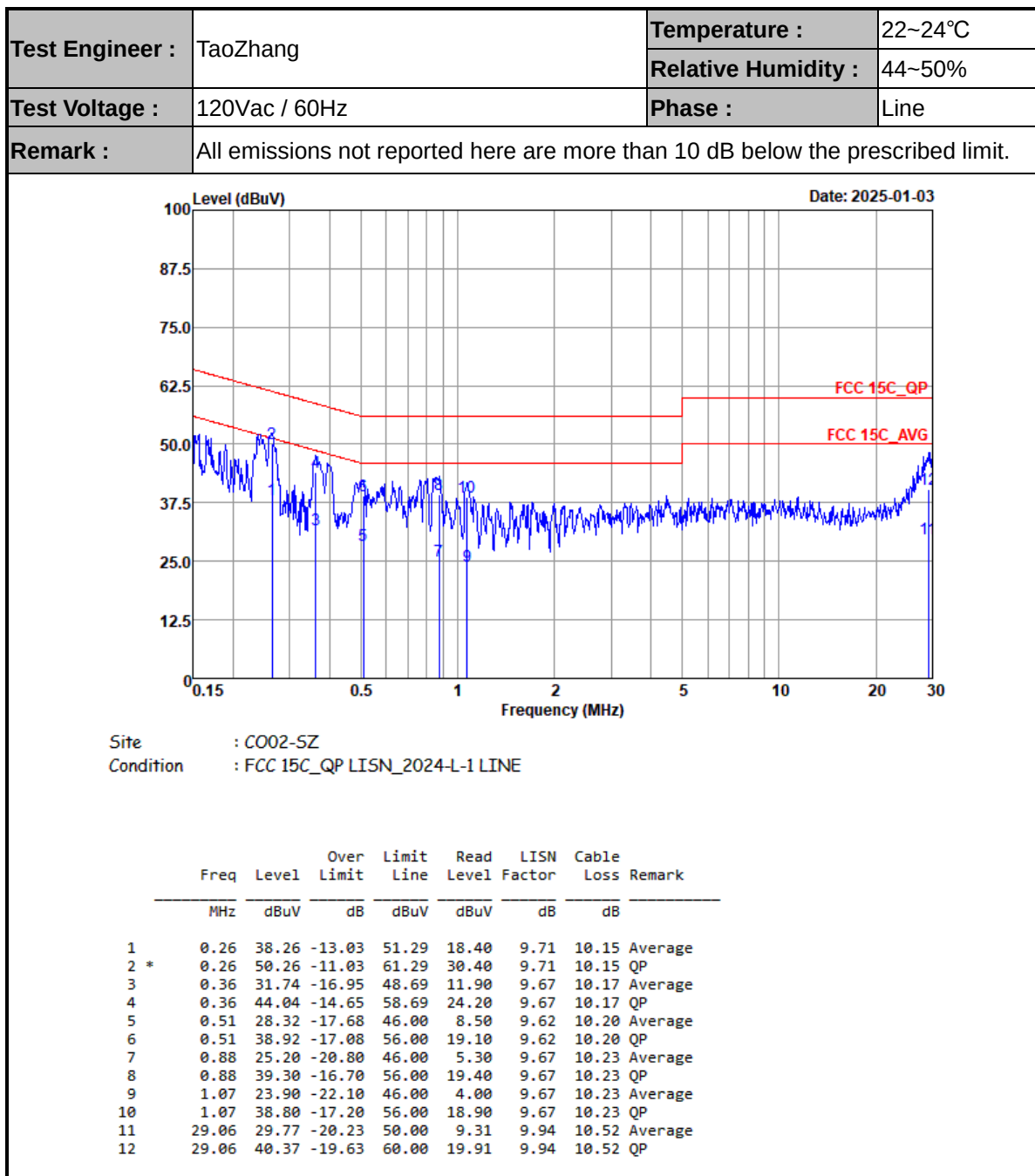






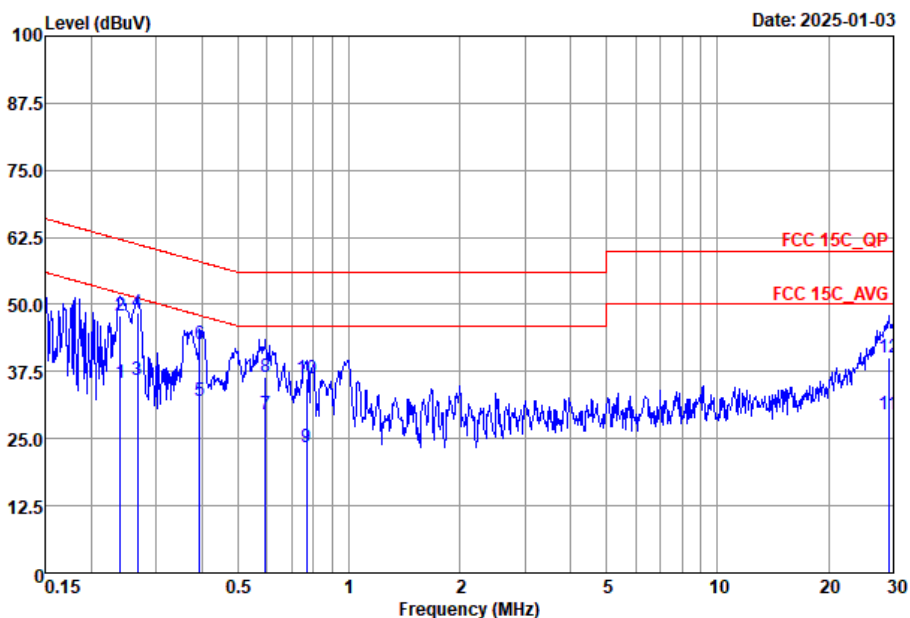


Appendix B. AC Conducted Emission Test Results





Test Engineer :	TaoZhang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C002-SZ
Condition : FCC 15C_QP LISN_2024-N-1 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.24	35.43	-16.65	52.08	15.60	9.68	10.15	Average
2	0.24	48.03	-14.05	62.08	28.20	9.68	10.15	QP
3	0.27	36.03	-15.17	51.20	16.20	9.68	10.15	Average
4 *	0.27	48.53	-12.67	61.20	28.70	9.68	10.15	QP
5	0.39	32.08	-15.91	47.99	12.20	9.70	10.18	Average
6	0.39	42.68	-15.31	57.99	22.80	9.70	10.18	QP
7	0.59	29.41	-16.59	46.00	9.50	9.69	10.22	Average
8	0.59	36.51	-19.49	56.00	16.60	9.69	10.22	QP
9	0.77	23.41	-22.59	46.00	3.50	9.68	10.23	Average
10	0.77	36.21	-19.79	56.00	16.30	9.68	10.23	QP
11	29.06	29.58	-20.42	50.00	9.10	9.96	10.52	Average
12	29.06	40.08	-19.92	60.00	19.60	9.96	10.52	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	Reid Huang	Relative Humidity :	44~50%
		Temperature :	22-24℃

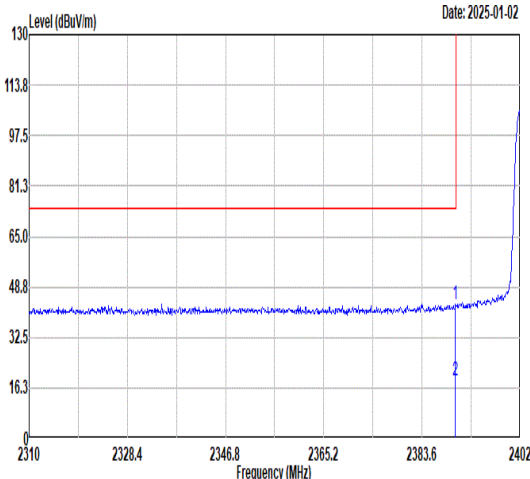
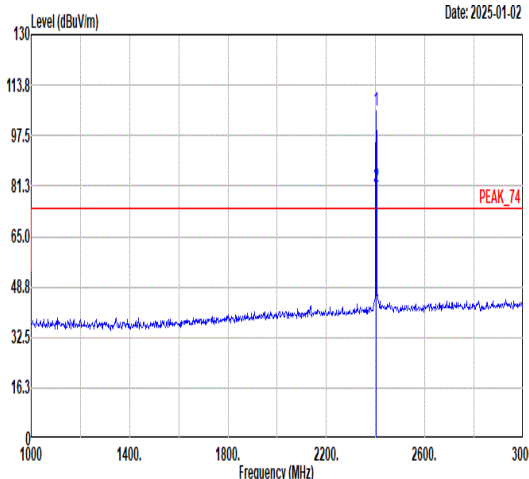
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	6	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	6	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	6	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	6	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	2388.75	43.47	74.00	-30.53	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	44.25	74.00	-29.75	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	4882.00	43.99	74.00	-30.01	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.60	51.18	74.00	-22.82	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	4960.00	47.09	74.00	-26.91	V	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	78	-	-	-	-	-	-	-	Band Edge
4	Bluetooth BR_GFSK	78	864.20	30.10	46.00	-15.90	H	Peak	Pass	Harmonic



Mode	1																																																																																																																			
	Band Edge																																																																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																			
ANT	6																																																																																																																			
Pol.	Horizontal						Fundamental																																																																																																													
Peak																																																																																																																				
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Mode	2																																																																																							
	Harmonic																																																																																							
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																																							
ANT	6																																																																																							
Pol.	Horizontal																																																																																							
Peak Avg	Level (dBuV/m) Date: 2025-01-15 <table><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></tr><tr><td>1</td><td>4882.00</td><td>43.99</td><td>74.00</td><td>-30.01</td><td>67.62</td><td>33.85</td><td>7.77</td><td>65.25</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>4882.00</td><td>19.20</td><td>54.00</td><td>-34.80</td><td>42.83</td><td>33.85</td><td>7.77</td><td>65.25</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>3</td><td>7323.00</td><td>43.95</td><td>74.00</td><td>-30.05</td><td>63.32</td><td>36.30</td><td>8.97</td><td>64.64</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>7323.00</td><td>19.16</td><td>54.00</td><td>-34.84</td><td>38.53</td><td>36.30</td><td>8.97</td><td>64.64</td><td>--</td><td>--</td><td>Average</td></tr></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	4882.00	43.99	74.00	-30.01	67.62	33.85	7.77	65.25	--	--	Peak	2	4882.00	19.20	54.00	-34.80	42.83	33.85	7.77	65.25	--	--	Average	3	7323.00	43.95	74.00	-30.05	63.32	36.30	8.97	64.64	--	--	Peak	4	7323.00	19.16	54.00	-34.84	38.53	36.30	8.97	64.64	--	--	Average
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	1	4882.00	43.99	74.00	-30.01	67.62	33.85	7.77	65.25	--	--	Peak																																																																												
2	4882.00	19.20	54.00	-34.80	42.83	33.85	7.77	65.25	--	--	Average																																																																													
3	7323.00	43.95	74.00	-30.05	63.32	36.30	8.97	64.64	--	--	Peak																																																																													
4	7323.00	19.16	54.00	-34.84	38.53	36.30	8.97	64.64	--	--	Average																																																																													
Peak Avg	Level (dBuV/m) Date: 2025-01-15 <table><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></tr><tr><td>1</td><td>4882.00</td><td>42.80</td><td>74.00</td><td>-31.20</td><td>66.43</td><td>33.85</td><td>7.77</td><td>65.25</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>4882.00</td><td>18.01</td><td>54.00</td><td>-35.99</td><td>41.64</td><td>33.85</td><td>7.77</td><td>65.25</td><td>--</td><td>--</td><td>Average</td></tr><tr><td>3</td><td>7323.00</td><td>43.62</td><td>74.00</td><td>-30.38</td><td>62.99</td><td>36.30</td><td>8.97</td><td>64.64</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>7323.00</td><td>18.83</td><td>54.00</td><td>-35.17</td><td>38.20</td><td>36.30</td><td>8.97</td><td>64.64</td><td>--</td><td>--</td><td>Average</td></tr></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	4882.00	42.80	74.00	-31.20	66.43	33.85	7.77	65.25	--	--	Peak	2	4882.00	18.01	54.00	-35.99	41.64	33.85	7.77	65.25	--	--	Average	3	7323.00	43.62	74.00	-30.38	62.99	36.30	8.97	64.64	--	--	Peak	4	7323.00	18.83	54.00	-35.17	38.20	36.30	8.97	64.64	--	--	Average
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3	7323.00	43.62	74.00	-30.38	62.99	36.30	8.97	64.64	--	--	Peak																																																																													
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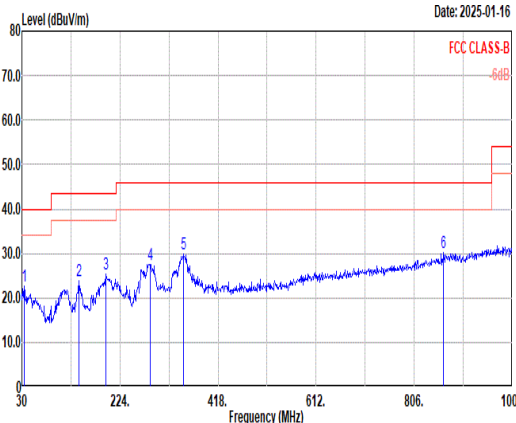
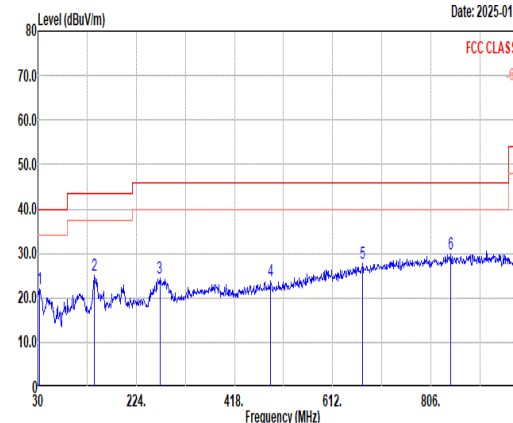


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Peak	Level (dBuV/m) Date: 2025-01-02 PEAK_BE_74 <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><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></th></tr><tr><td>1</td><td>2483.60</td><td>51.18</td><td>74.00</td><td>-22.82</td><td>49.30</td><td>30.49</td><td>4.92</td><td>33.53 100 241 PEAK</td></tr><tr><td>2</td><td>2483.60</td><td>26.39</td><td>74.00</td><td>-47.61</td><td>24.51</td><td>30.49</td><td>4.92</td><td>33.53 100 241 Average</td></tr></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		1	2483.60	51.18	74.00	-22.82	49.30	30.49	4.92	33.53 100 241 PEAK	2	2483.60	26.39	74.00	-47.61	24.51	30.49	4.92	33.53 100 241 Average	Level (dBuV/m) Date: 2025-01-02 PEAK_74 <table><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></th></tr><tr><td>1</td><td>2480.00</td><td>106.29</td><td>-----</td><td>-----</td><td>104.42</td><td>30.49</td><td>4.92</td><td>33.54 100 241 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>81.50</td><td>74.00</td><td>7.50</td><td>79.63</td><td>30.49</td><td>4.92</td><td>33.54 100 241 Average</td></tr></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		1	2480.00	106.29	-----	-----	104.42	30.49	4.92	33.54 100 241 PEAK	2	2480.00	81.50	74.00	7.50	79.63	30.49	4.92	33.54 100 241 Average
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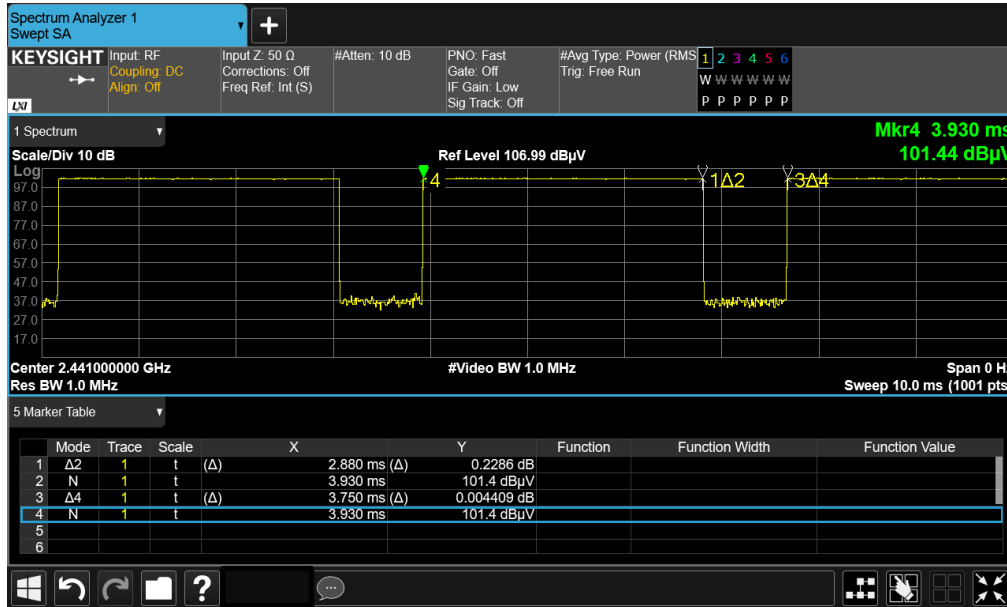
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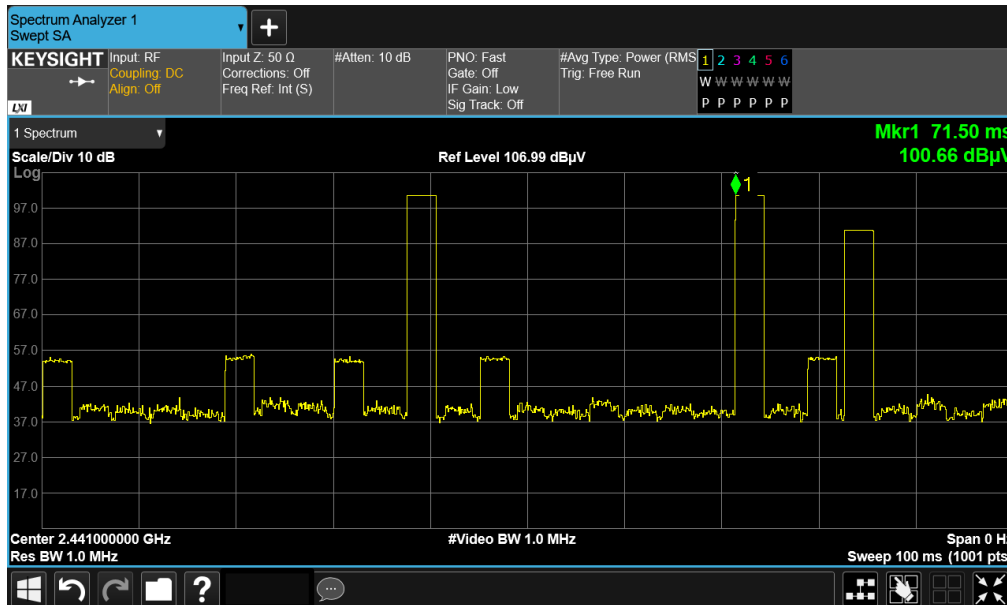
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Appendix D. Duty Cycle Plots

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.