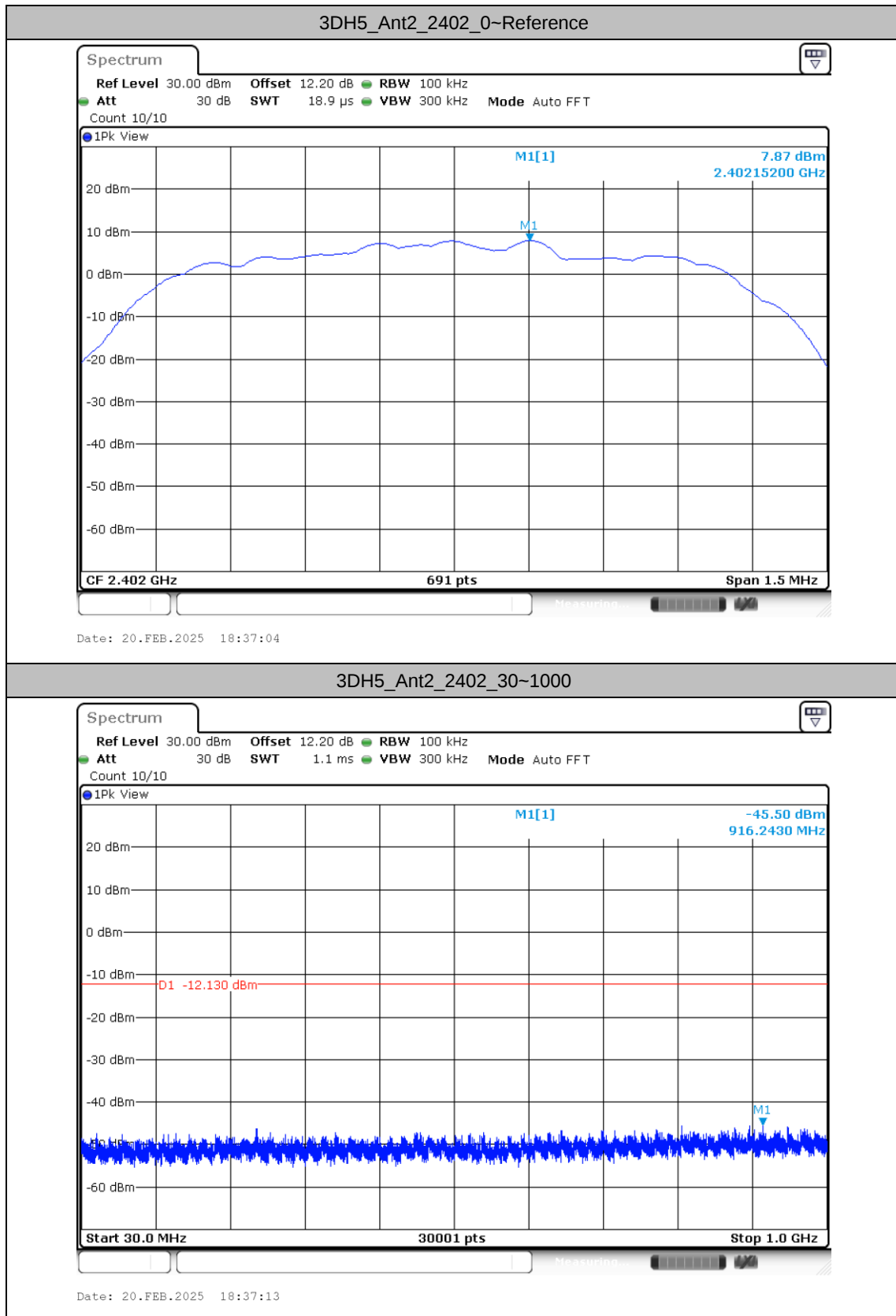
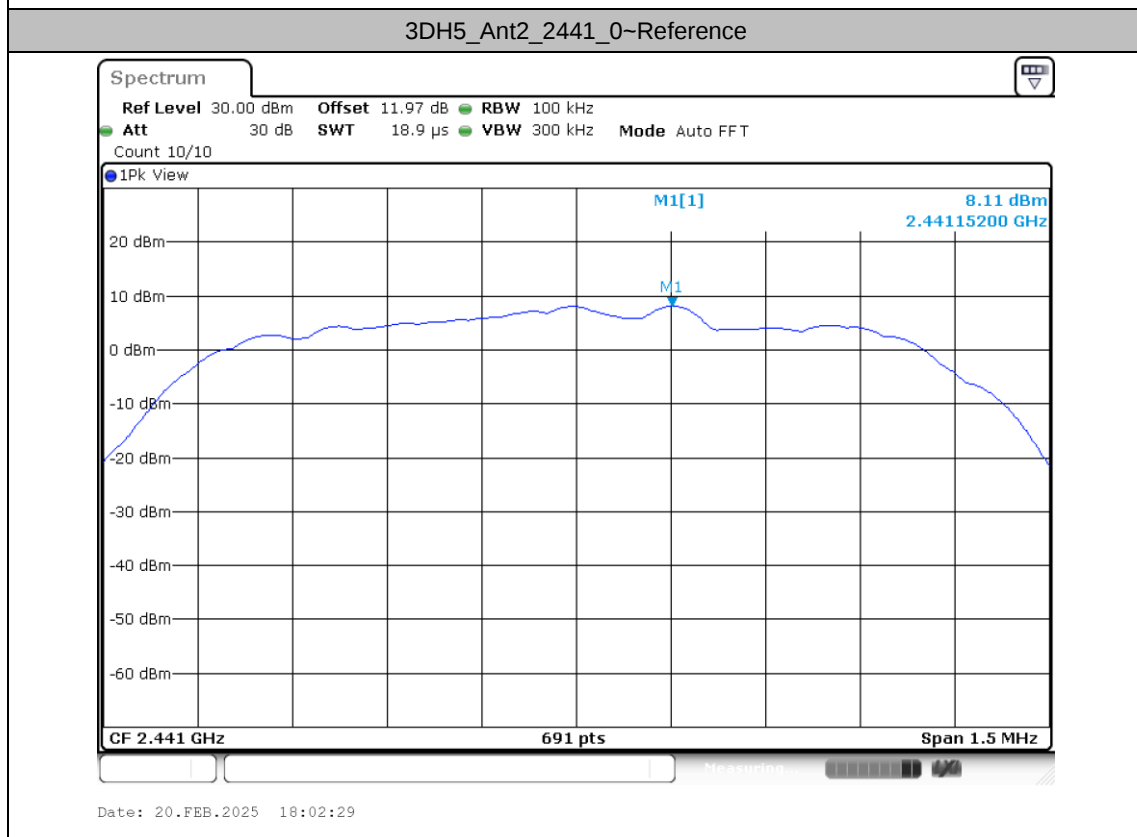
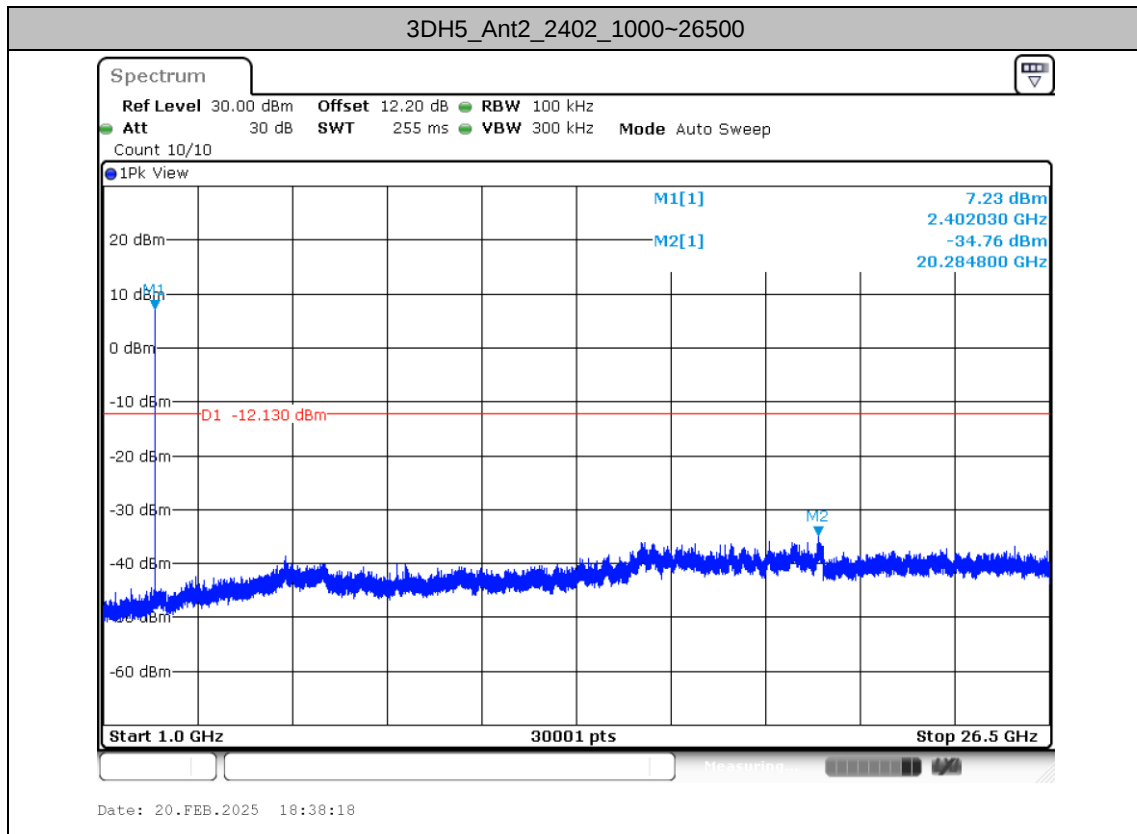
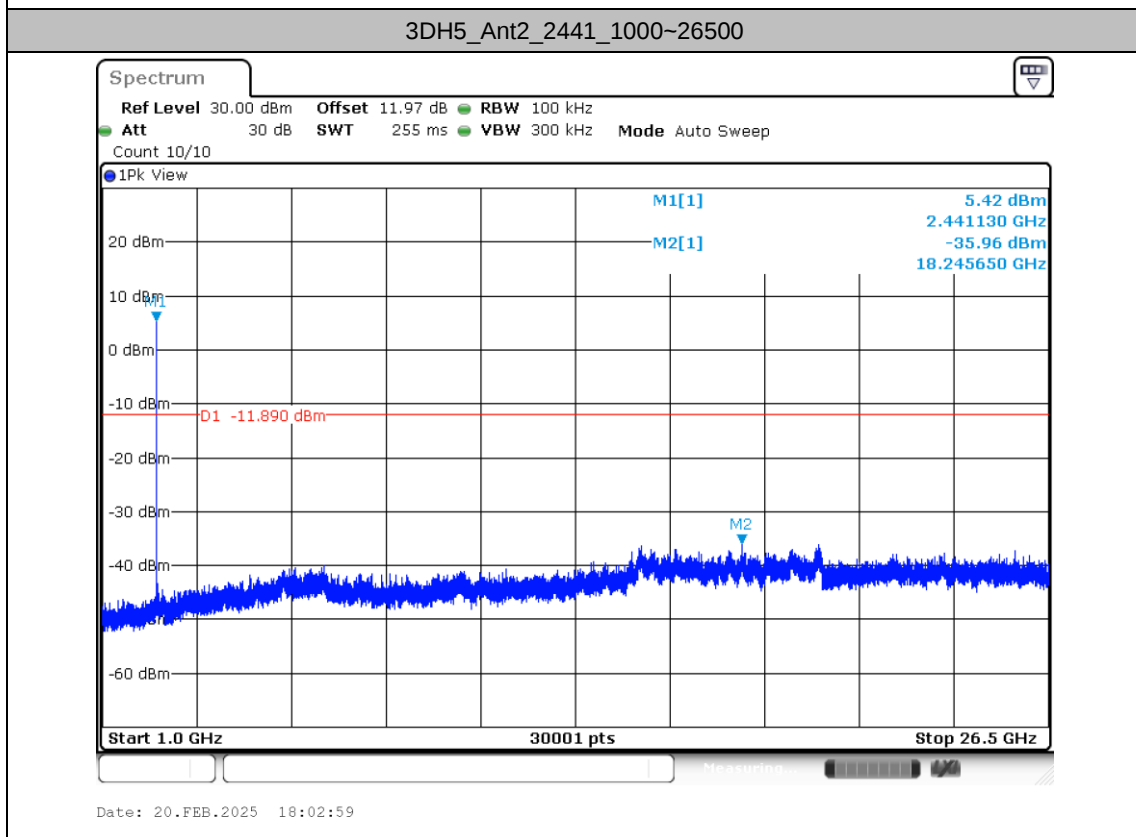
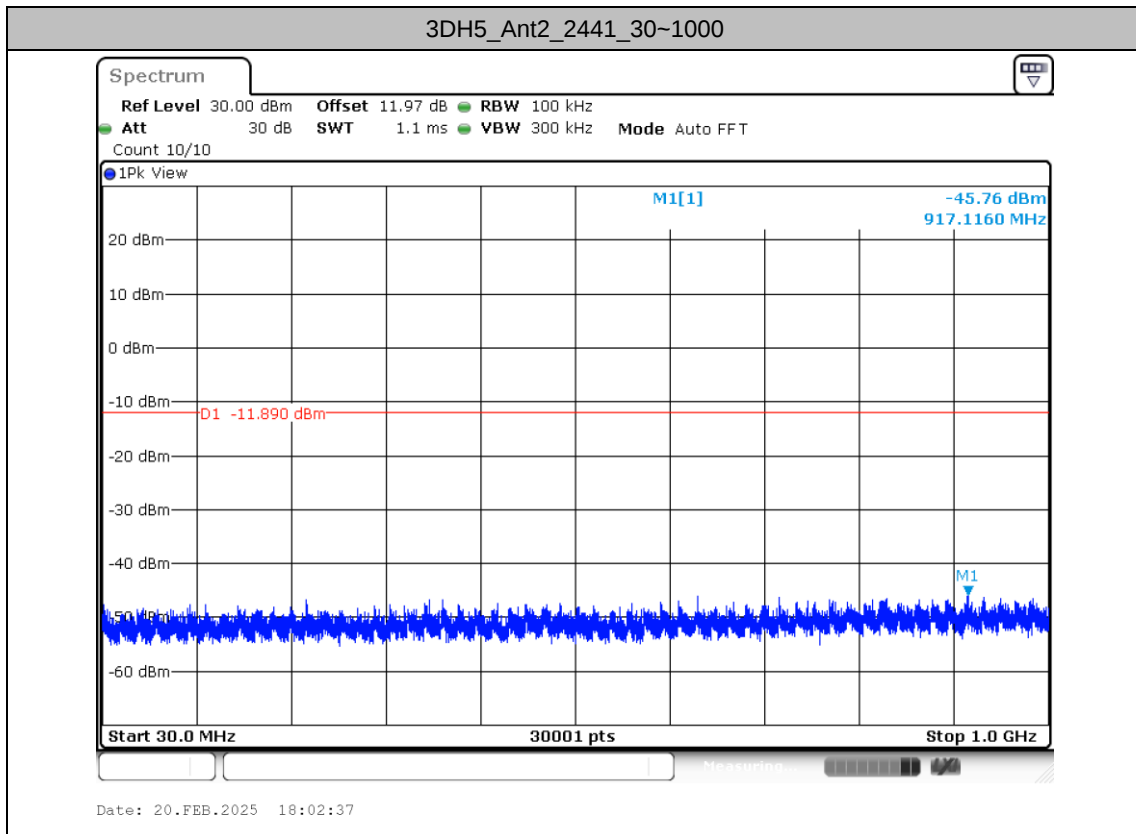
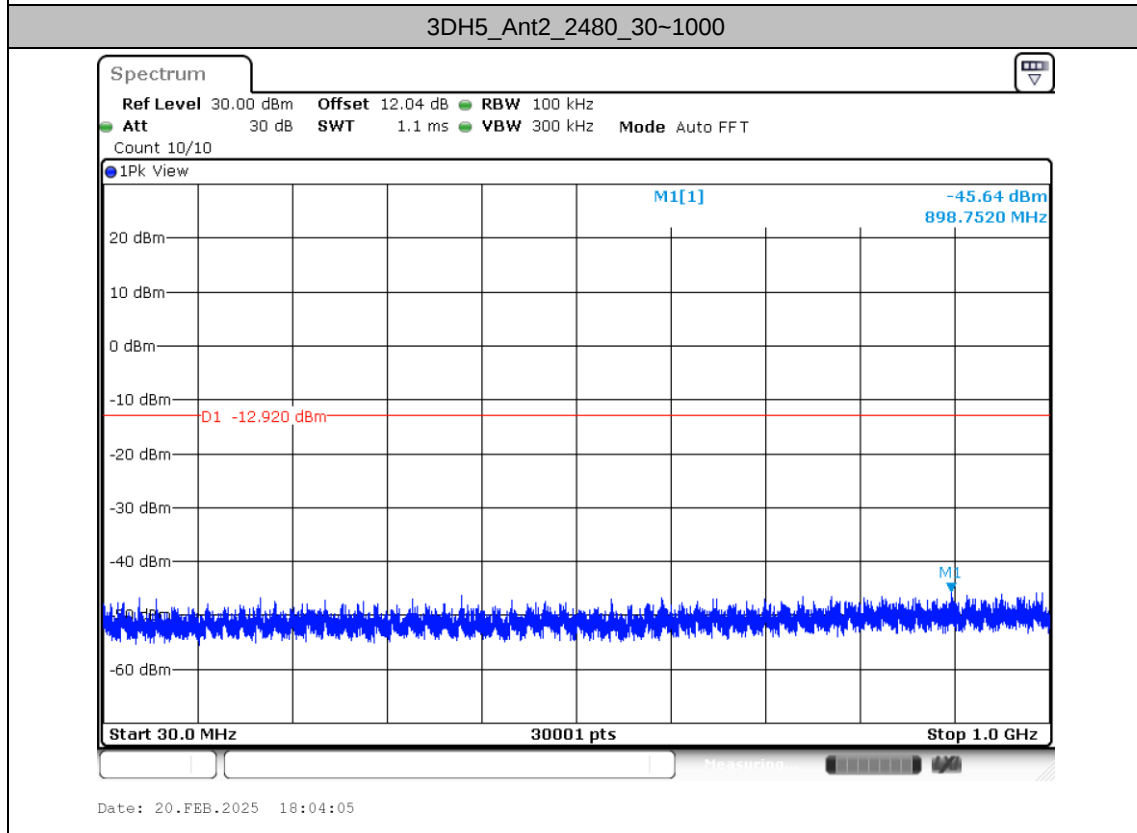
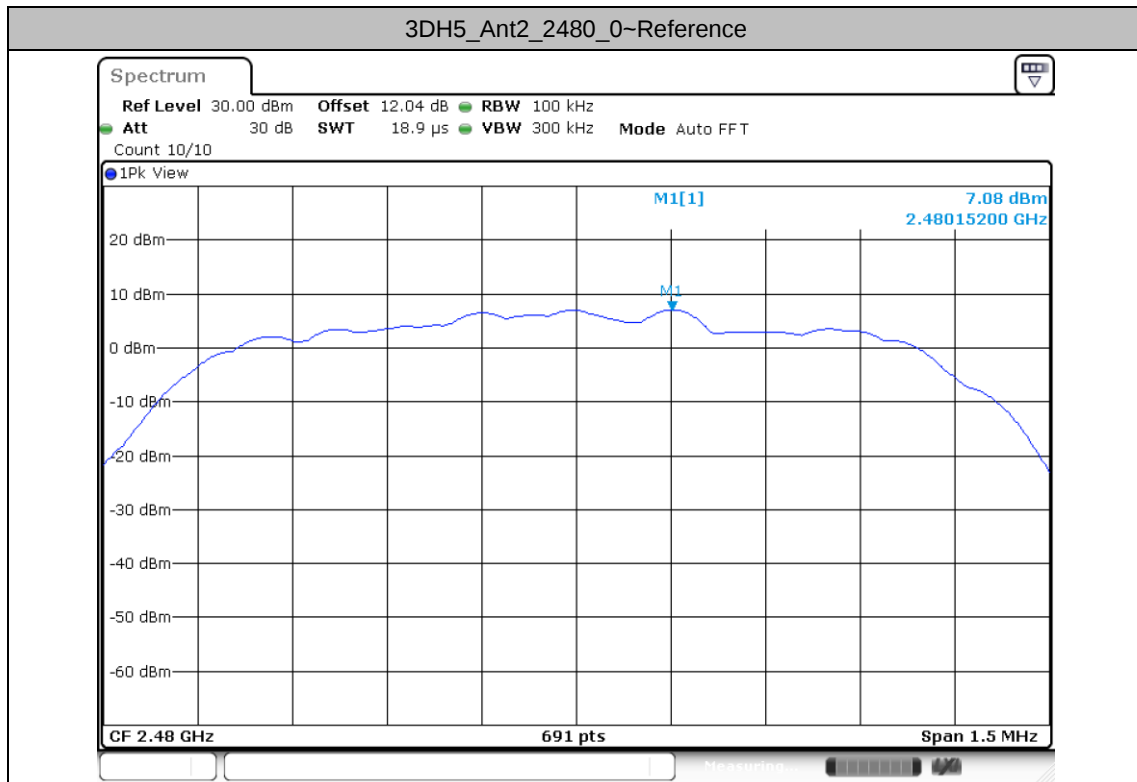
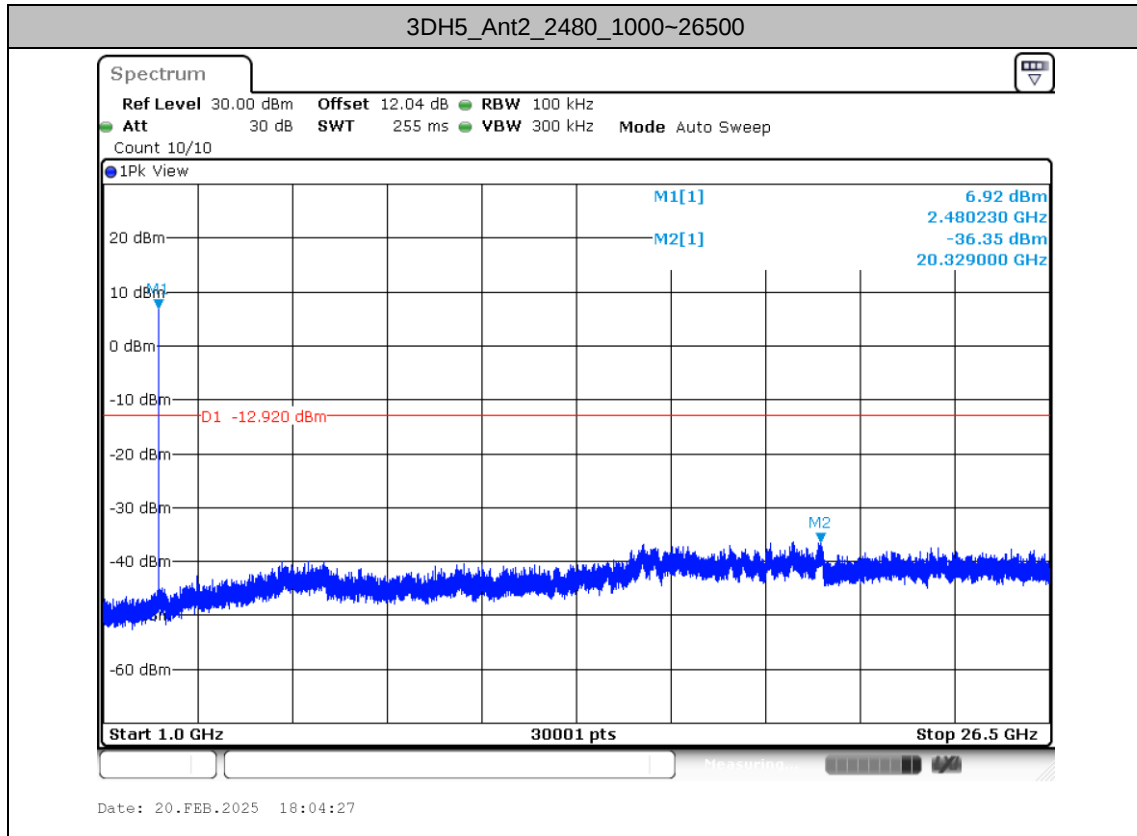








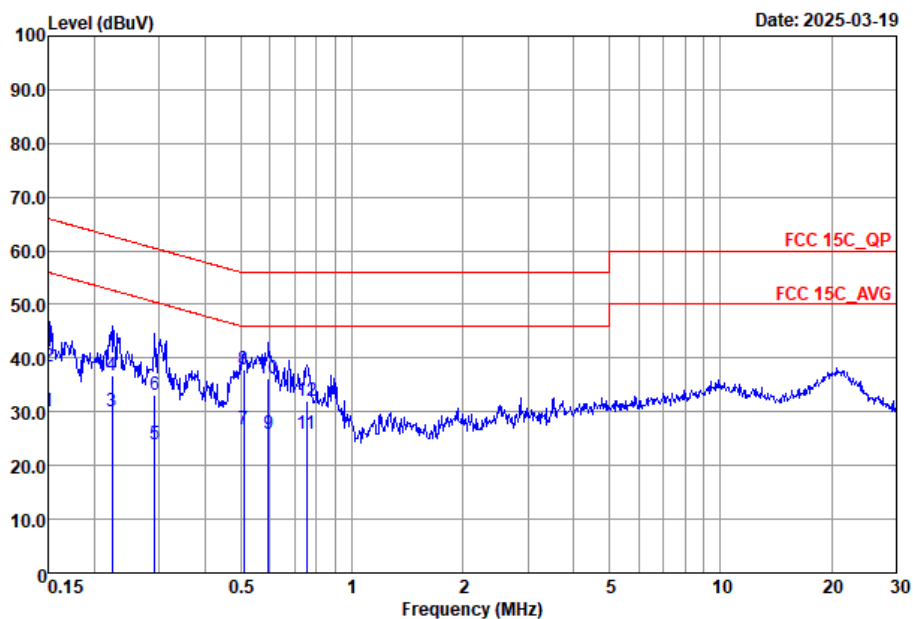






Appendix B. AC Conducted Emission Test Results

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

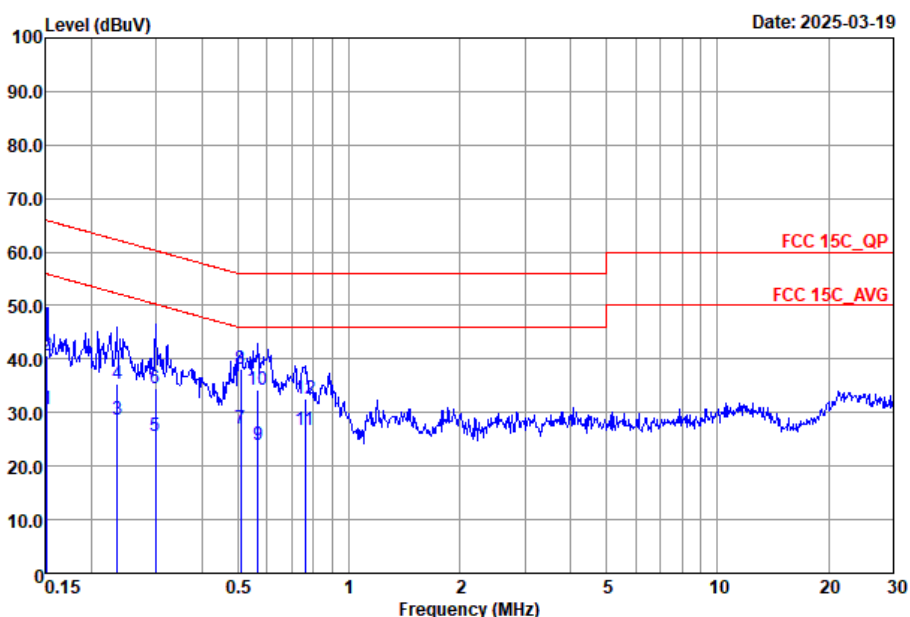


Site : C002-SZ
Condition : FCC 15C_QP LISN_2025-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	30.05	-25.95	56.00	10.20	9.66	10.19	Average
2	0.15	38.55	-27.45	66.00	18.70	9.66	10.19	QP
3	0.22	30.20	-22.50	52.70	10.29	9.72	10.19	Average
4	0.22	36.90	-25.80	62.70	16.99	9.72	10.19	QP
5	0.29	23.96	-26.50	50.46	4.01	9.75	10.20	Average
6	0.29	33.06	-27.40	60.46	13.11	9.75	10.20	QP
7	0.51	26.62	-19.38	46.00	6.70	9.68	10.24	Average
8 *	0.51	37.92	-18.08	56.00	18.00	9.68	10.24	QP
9	0.59	25.80	-20.20	46.00	5.90	9.66	10.24	Average
10	0.59	36.20	-19.80	56.00	16.30	9.66	10.24	QP
11	0.75	26.00	-20.00	46.00	6.10	9.67	10.23	Average
12	0.75	32.00	-24.00	56.00	12.10	9.67	10.23	QP



Test Engineer :	Yuki	Temperature :	22~24℃
		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 : CO02-SZ
Condition : FCC 15C_QP LISN_2025-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15	30.75	-25.16	55.91	11.00	9.56	10.19	Average
2	0.15	40.55	-25.36	65.91	20.80	9.56	10.19	QP
3	0.24	28.71	-23.55	52.26	8.90	9.62	10.19	Average
4	0.24	35.51	-26.75	62.26	15.70	9.62	10.19	QP
5	0.30	25.61	-24.67	50.28	5.50	9.90	10.21	Average
6	0.30	34.51	-25.77	60.28	14.40	9.90	10.21	QP
7	0.51	27.15	-18.85	46.00	7.30	9.61	10.24	Average
8 *	0.51	38.05	-17.95	56.00	18.20	9.61	10.24	QP
9	0.57	23.87	-22.13	46.00	4.00	9.63	10.24	Average
10	0.57	34.17	-21.83	56.00	14.30	9.63	10.24	QP
11	0.76	26.78	-19.22	46.00	6.80	9.75	10.23	Average
12	0.76	32.68	-23.32	56.00	12.70	9.75	10.23	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 :	Winter Zhang	Relative Humidity :	50%
		Temperature :	20℃-22℃

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	00	2402	(1DH5)	-	-
Mode 2	2400-2483.5	2	Bluetooth BR_GFSK	39	2440	(1DH5)	-	-
Mode 3	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	(1DH5)	-	-
Mode 4	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	(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
1	Bluetooth BR_GFSK	00	2337.93	44.08	74.00	-29.92	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	44.35	74.00	-29.65	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	4882.00	45.58	74.00	-28.42	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.66	48.37	74.00	-25.63	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	45.24	74.00	-28.76	H	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	78	49.40	31.79	40.00	-8.21	V	PEAK	Pass	LF



Mode	1																																																																																																											
	Band Edge																																																																																																											
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																											
ANT	2																																																																																																											
Pol.	Horizontal	Fundamental																																																																																																										
Peak	Date: 2025-03-17 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Margin</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>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2359.77</td><td>43.70</td><td>74.00</td><td>-30.30</td><td>41.76</td><td>30.77</td><td>5.33</td><td>34.16</td><td>100</td><td>209</td><td>PEAK</td></tr><tr><td>2</td><td>2359.77</td><td>18.91</td><td>54.00</td><td>-35.09</td><td>16.97</td><td>30.77</td><td>5.33</td><td>34.16</td><td>100</td><td>209</td><td>AVERAGE</td></tr></tbody></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2359.77	43.70	74.00	-30.30	41.76	30.77	5.33	34.16	100	209	PEAK	2	2359.77	18.91	54.00	-35.09	16.97	30.77	5.33	34.16	100	209	AVERAGE	Date: 2025-03-17 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Margin</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>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>100.10</td><td>-----</td><td>98.09</td><td>30.78</td><td>5.37</td><td>34.14</td><td>100</td><td>209</td><td>PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>75.31</td><td>-----</td><td>73.30</td><td>30.78</td><td>5.37</td><td>34.14</td><td>100</td><td>209</td><td>AVERAGE</td></tr></tbody></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	100.10	-----	98.09	30.78	5.37	34.14	100	209	PEAK	2	2402.00	75.31	-----	73.30	30.78	5.37	34.14	100	209	AVERAGE
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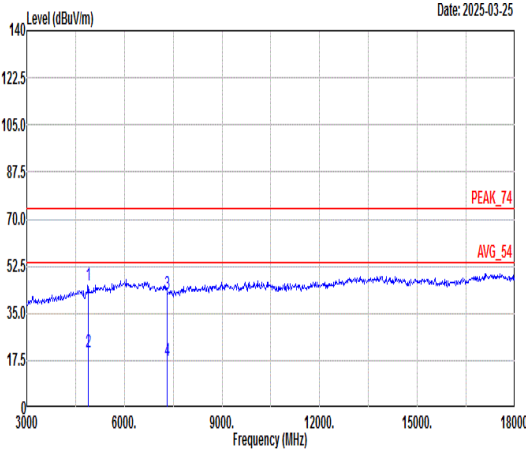
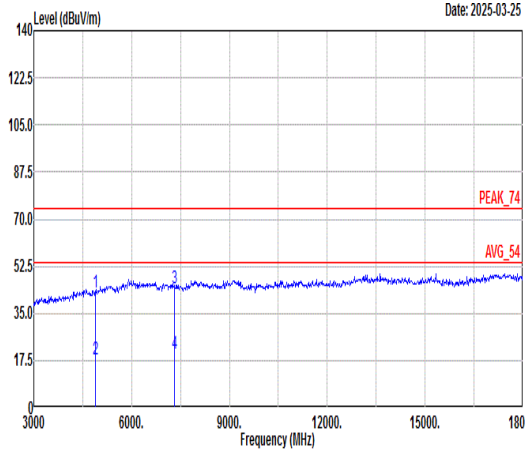


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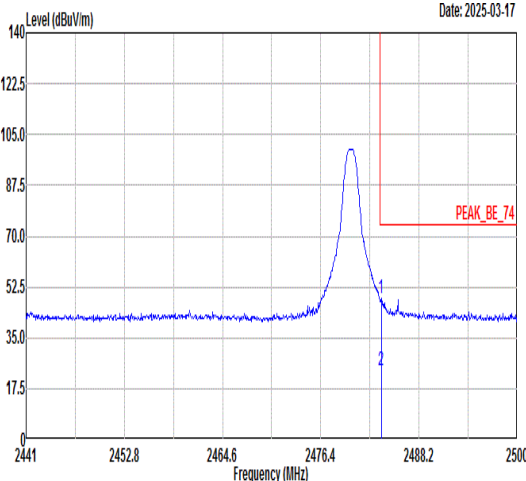
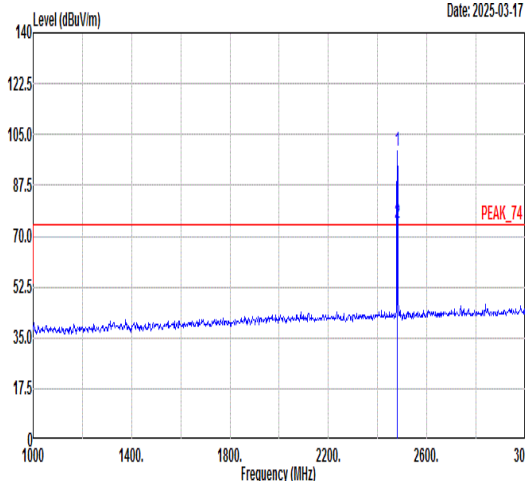


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2	4804.00	19.56	54.00	-34.44	39.07	36.39	8.94	64.84	---	---	Average																																																				

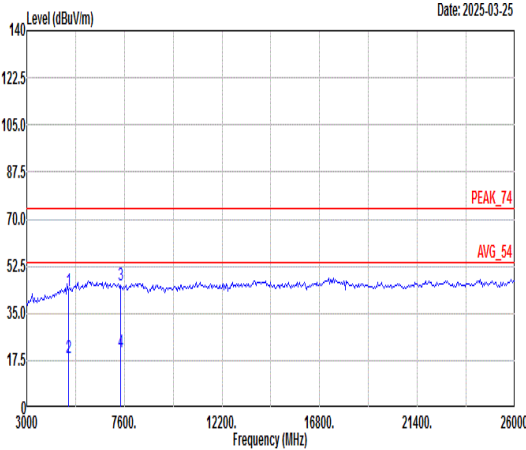
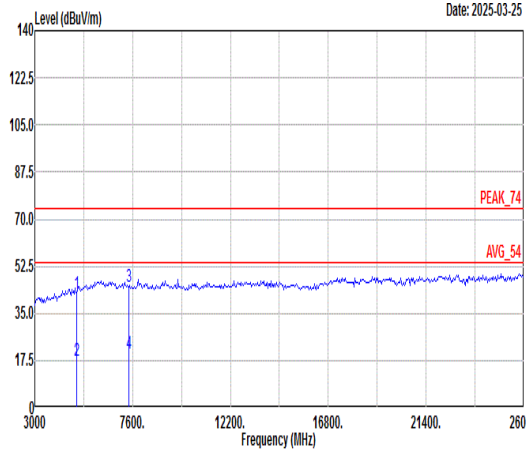


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Pol.	Horizontal						Vertical																																																																																
Peak Avg																																																																																							
<table><tr><th></th><th>Limit</th><th>Read</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>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>45.58</td><td>74.00</td><td>-28.42</td><td>65.19</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4882.00</td><td>20.79</td><td>54.00</td><td>-33.21</td><td>40.40</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3</td><td>7323.00</td><td>42.46</td><td>74.00</td><td>-31.54</td><td>60.40</td><td>36.88</td><td>10.18</td><td>65.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7323.00</td><td>17.67</td><td>54.00</td><td>-36.33</td><td>35.61</td><td>36.88</td><td>10.18</td><td>65.00</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	45.58	74.00	-28.42	65.19	36.51	8.70	64.82	---	---	Peak	2	4882.00	20.79	54.00	-33.21	40.40	36.51	8.70	64.82	---	---	Average	3	7323.00	42.46	74.00	-31.54	60.40	36.88	10.18	65.00	---	---	Peak	4	7323.00	17.67	54.00	-36.33	35.61	36.88	10.18	65.00	---	---	Average
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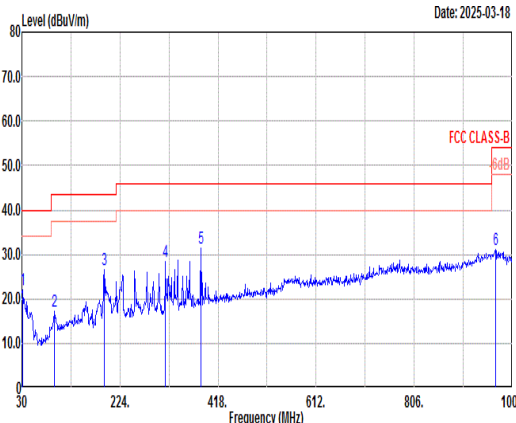
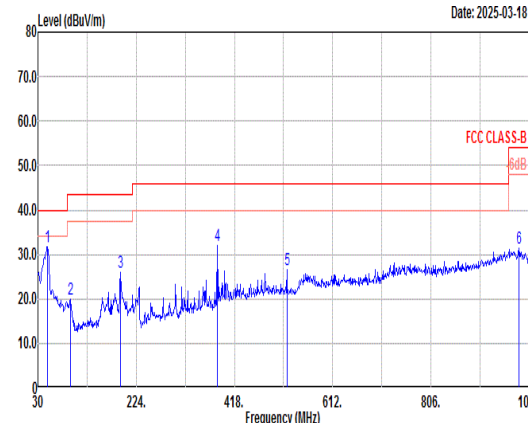


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Peak	Date: 2025-03-17 <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></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>48.37</td><td>74.00</td><td>-25.63</td><td>46.22</td><td>30.80</td><td>5.46</td><td>34.11</td><td>100</td><td>275 PEAK</td></tr><tr><td>2</td><td>2483.66</td><td>23.58</td><td>54.00</td><td>-30.42</td><td>21.43</td><td>30.80</td><td>5.46</td><td>34.11</td><td>100</td><td>275 AVERAGE</td></tr></table> Date: 2025-03-17 <table><tr><th></th><th>Limit</th><th>Margin</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>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></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>99.51</td><td>-----</td><td>-----</td><td>97.36</td><td>30.80</td><td>5.46</td><td>34.11</td><td>100</td><td>275 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>74.72</td><td>-----</td><td>-----</td><td>72.57</td><td>30.80</td><td>5.46</td><td>34.11</td><td>100</td><td>275 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2483.66	48.37	74.00	-25.63	46.22	30.80	5.46	34.11	100	275 PEAK	2	2483.66	23.58	54.00	-30.42	21.43	30.80	5.46	34.11	100	275 AVERAGE		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1	2480.00	99.51	-----	-----	97.36	30.80	5.46	34.11	100	275 PEAK	2	2480.00	74.72	-----	-----	72.57	30.80	5.46	34.11	100	275 AVERAGE
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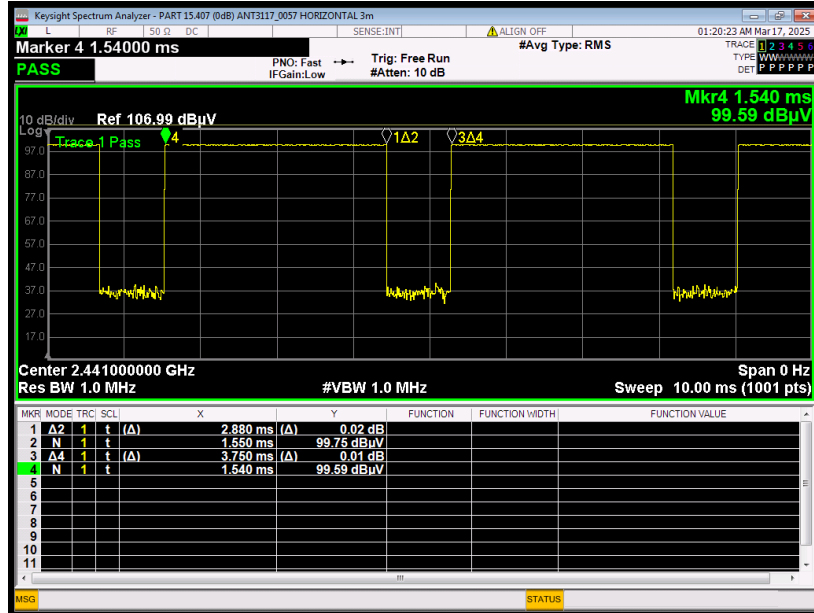
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<table><tr><td>1</td><td>4960.00</td><td>43.36</td><td>74.00</td><td>-30.64</td><td>63.07</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4960.00</td><td>18.57</td><td>54.00</td><td>-35.43</td><td>38.28</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3</td><td>7440.00</td><td>45.24</td><td>74.00</td><td>-28.76</td><td>63.28</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7440.00</td><td>20.45</td><td>54.00</td><td>-33.55</td><td>38.49</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Average</td></tr></table>						1	4960.00	43.36	74.00	-30.64	63.07	36.64	8.46	64.81	---	---	Peak	2	4960.00	18.57	54.00	-35.43	38.28	36.64	8.46	64.81	---	---	Average	3	7440.00	45.24	74.00	-28.76	63.28	36.76	10.17	64.97	---	---	Peak	4	7440.00	20.45	54.00	-33.55	38.49	36.76	10.17	64.97	---	---	Average	<table><tr><td>1</td><td>4960.00</td><td>42.47</td><td>74.00</td><td>-31.53</td><td>62.18</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4960.00</td><td>17.68</td><td>54.00</td><td>-36.32</td><td>37.39</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3</td><td>7440.00</td><td>45.12</td><td>74.00</td><td>-28.88</td><td>63.16</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7440.00</td><td>20.33</td><td>54.00</td><td>-33.67</td><td>38.37</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Average</td></tr></table>						1	4960.00	42.47	74.00	-31.53	62.18	36.64	8.46	64.81	---	---	Peak	2	4960.00	17.68	54.00	-36.32	37.39	36.64	8.46	64.81	---	---	Average	3	7440.00	45.12	74.00	-28.88	63.16	36.76	10.17	64.97	---	---	Peak	4	7440.00	20.33	54.00	-33.67	38.37	36.76	10.17	64.97	---	---	Average
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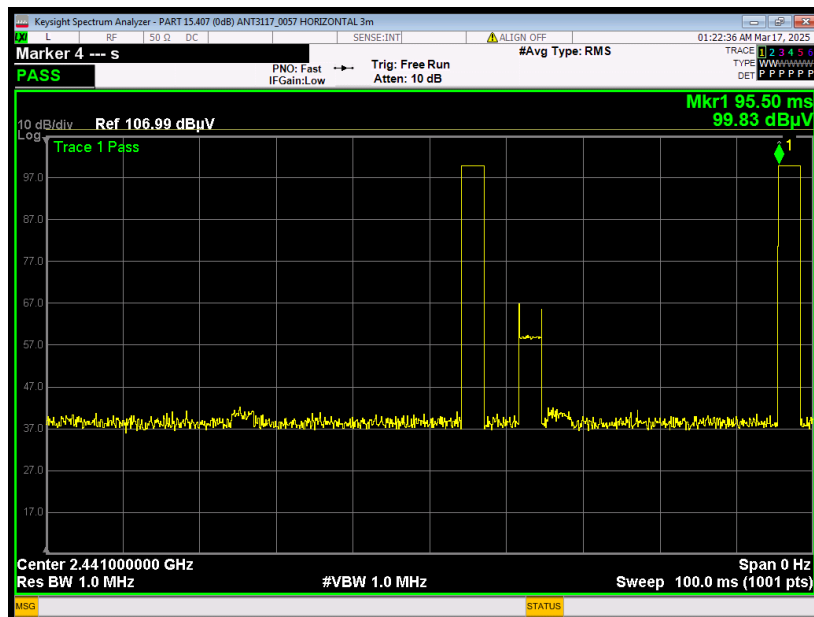
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Appendix D. Duty Cycle Plots

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.