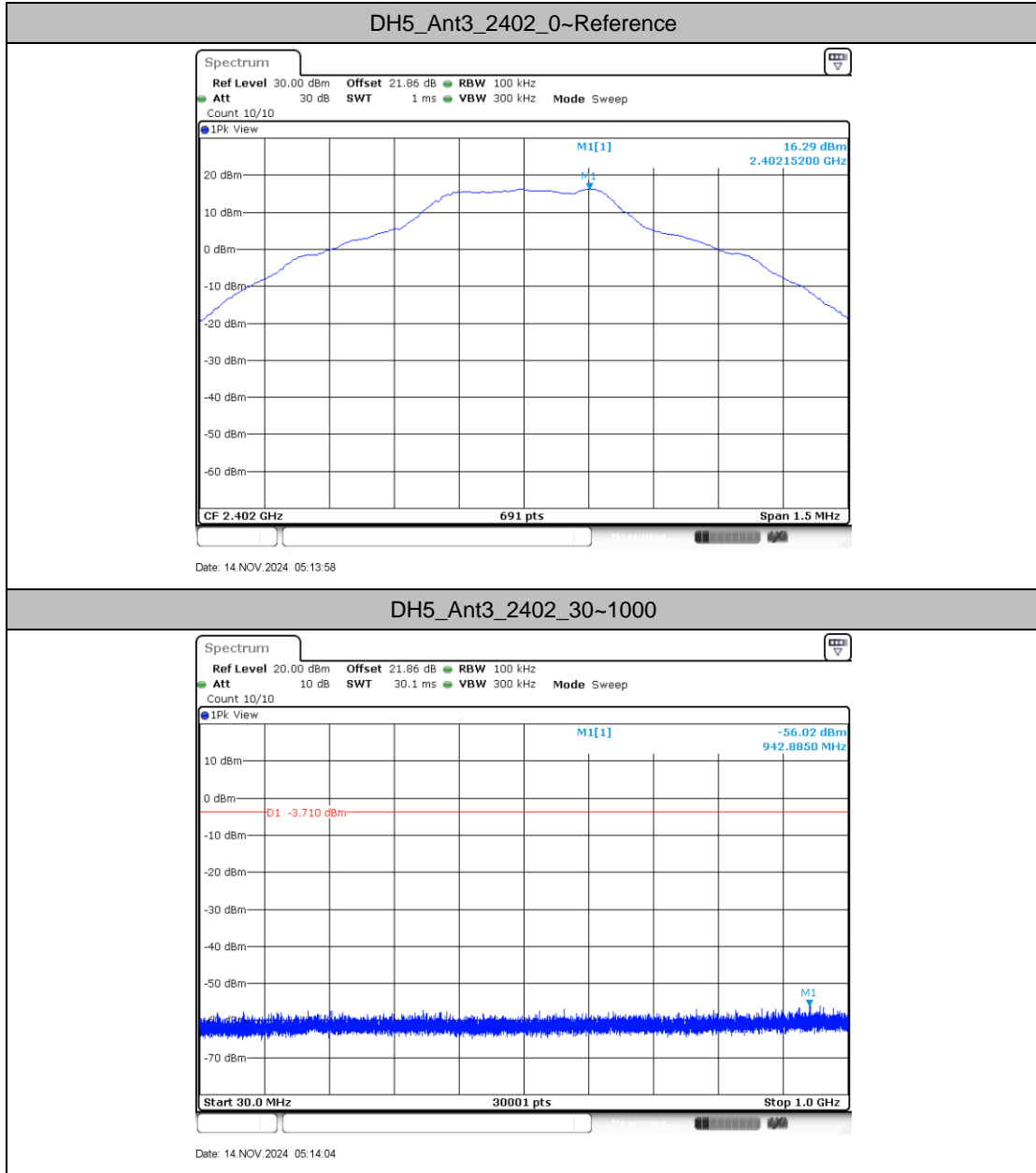
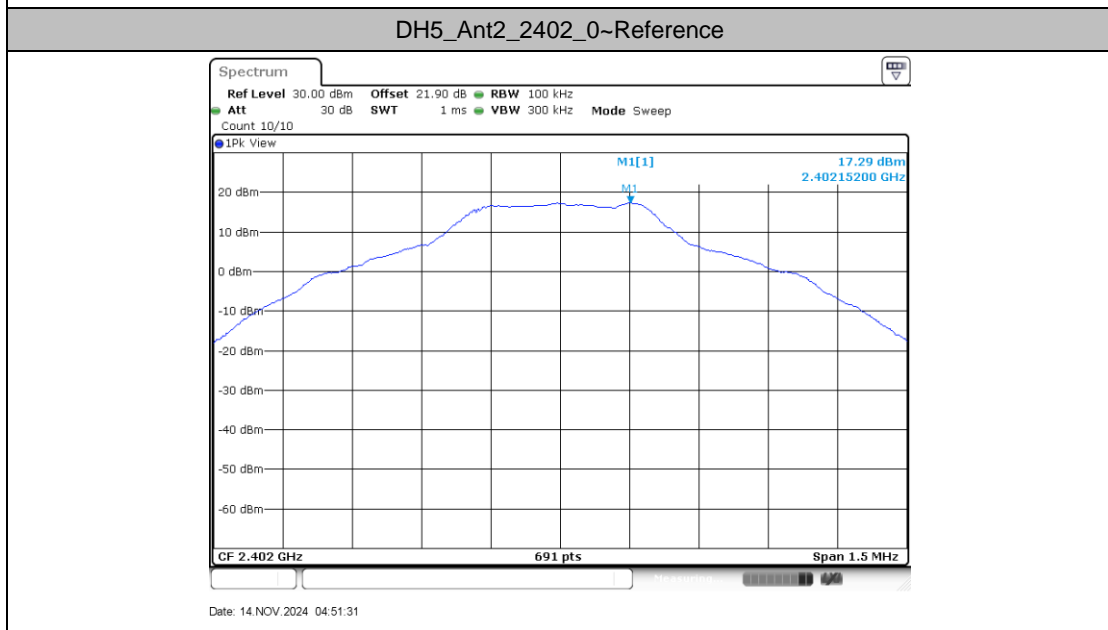
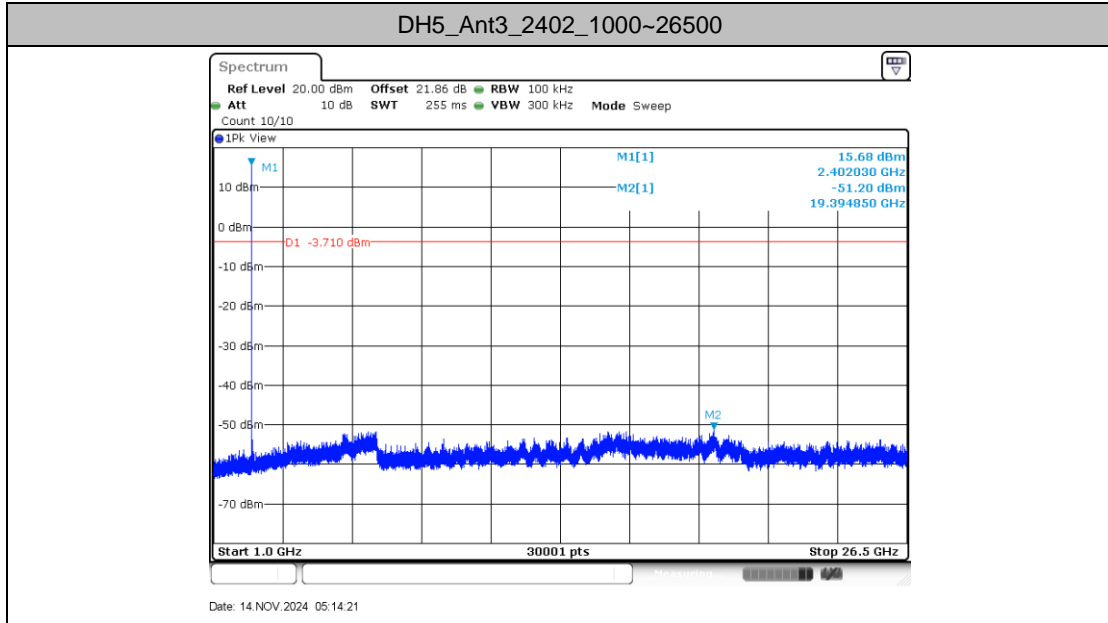
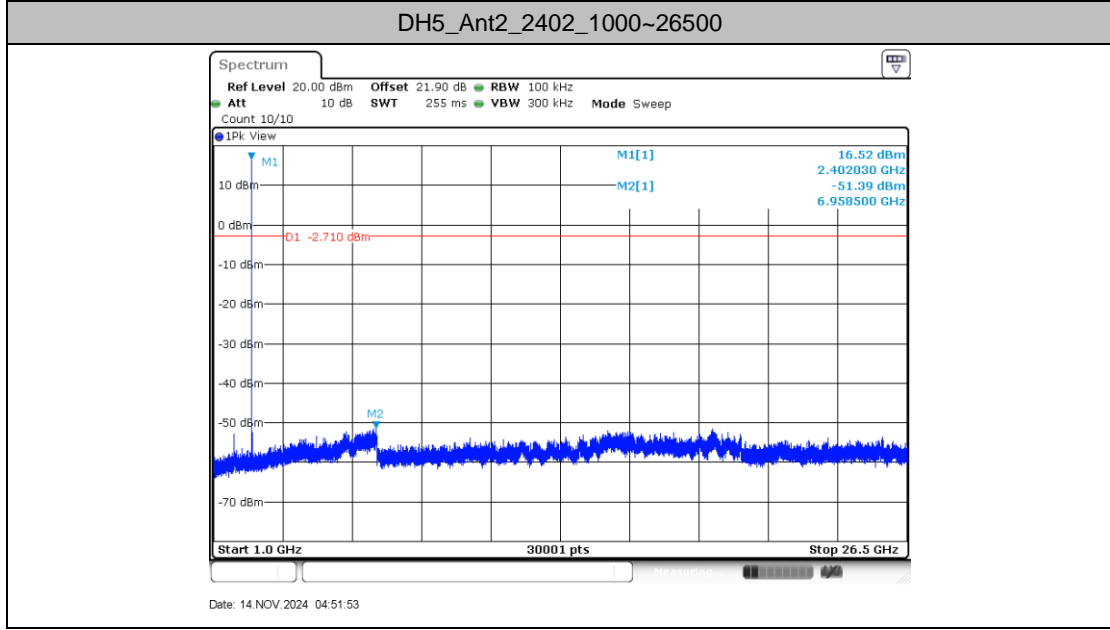
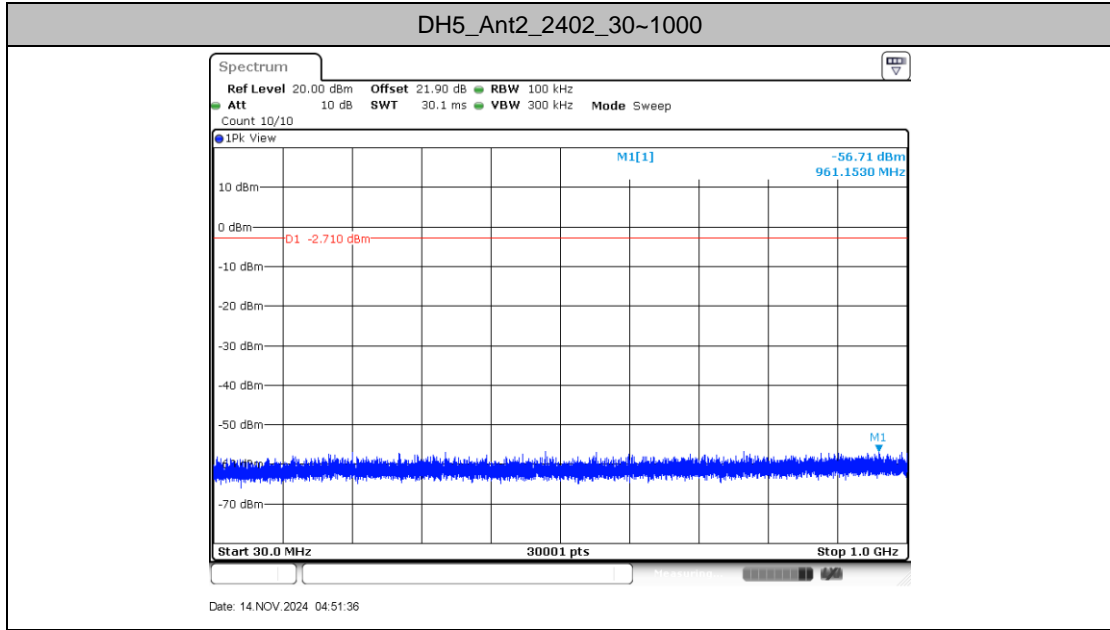


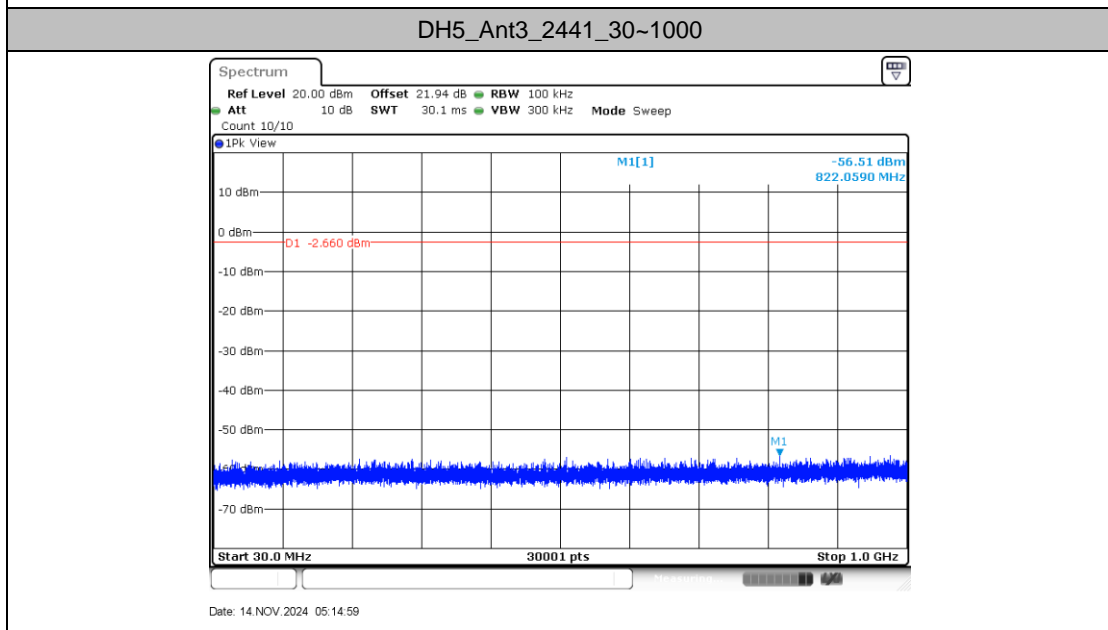
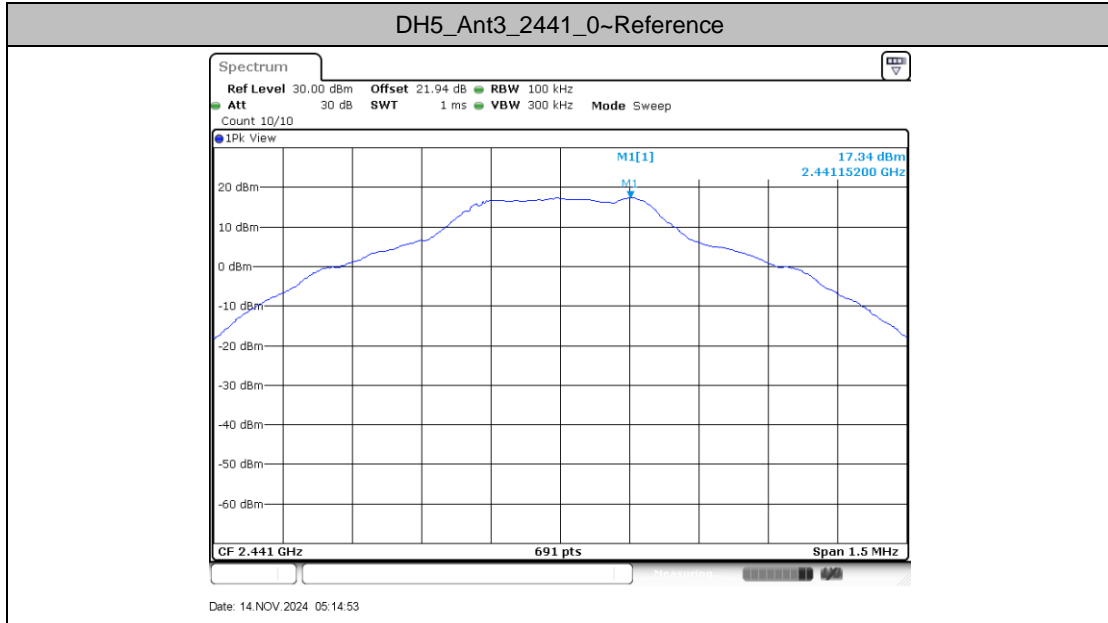


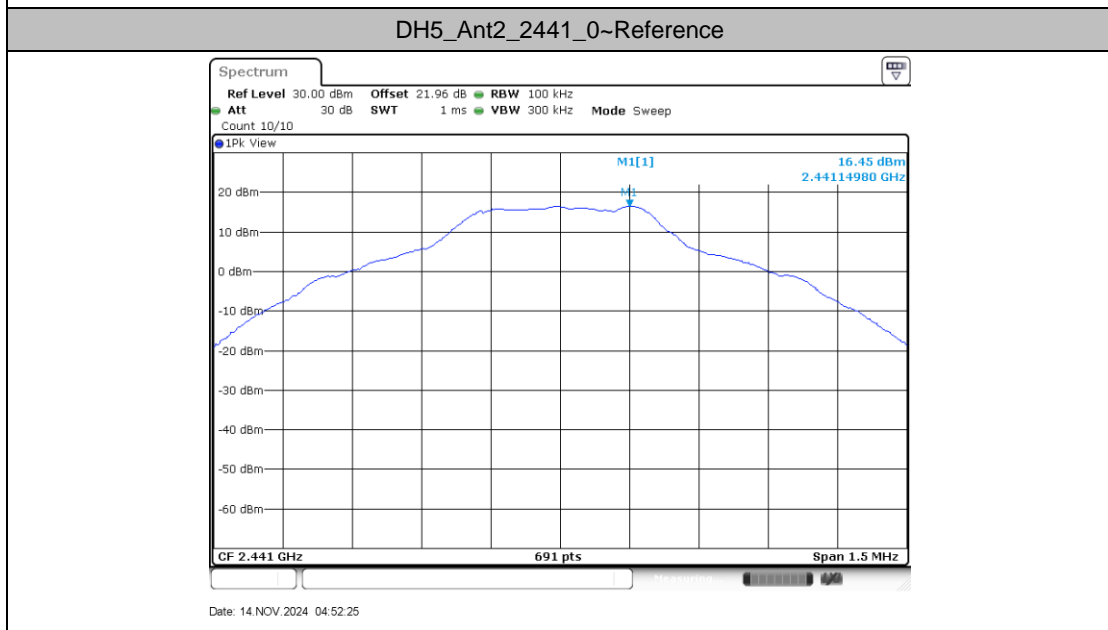
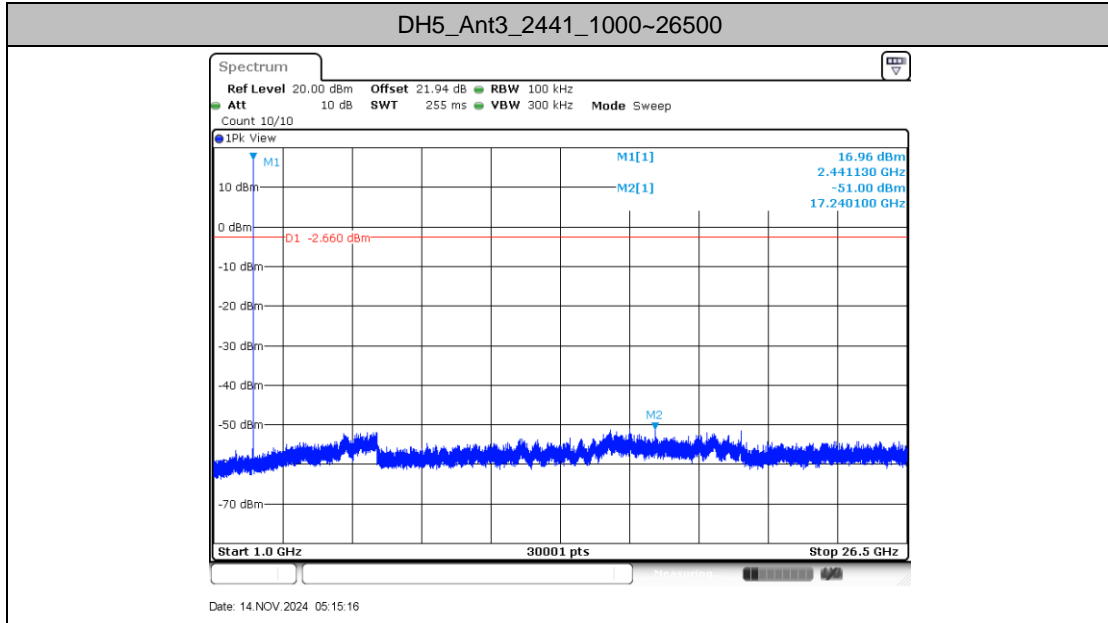
Test Graphs

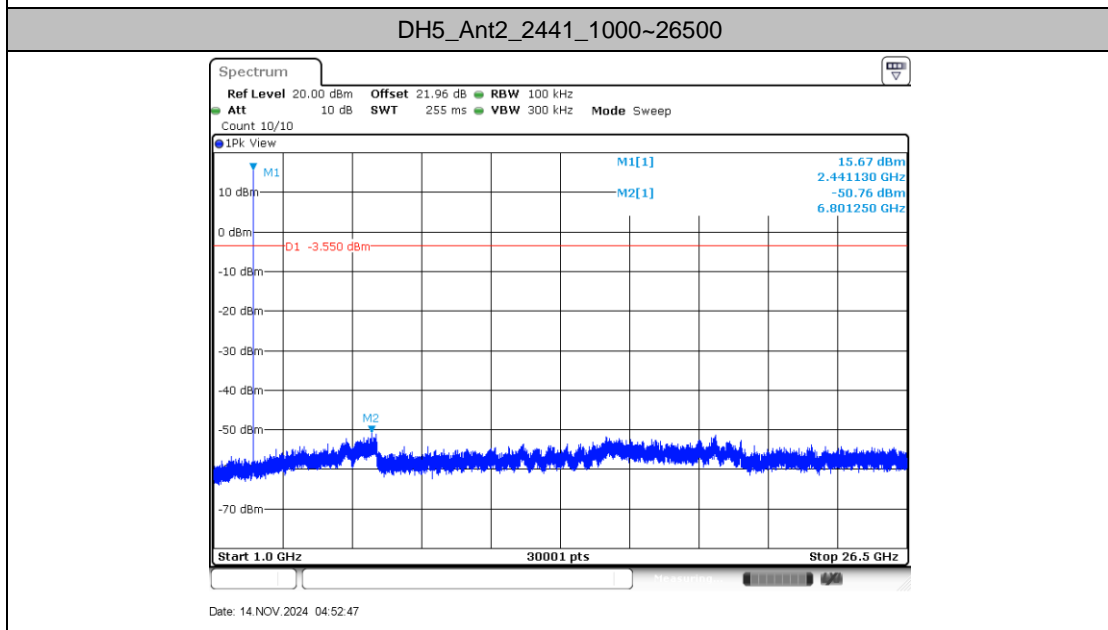
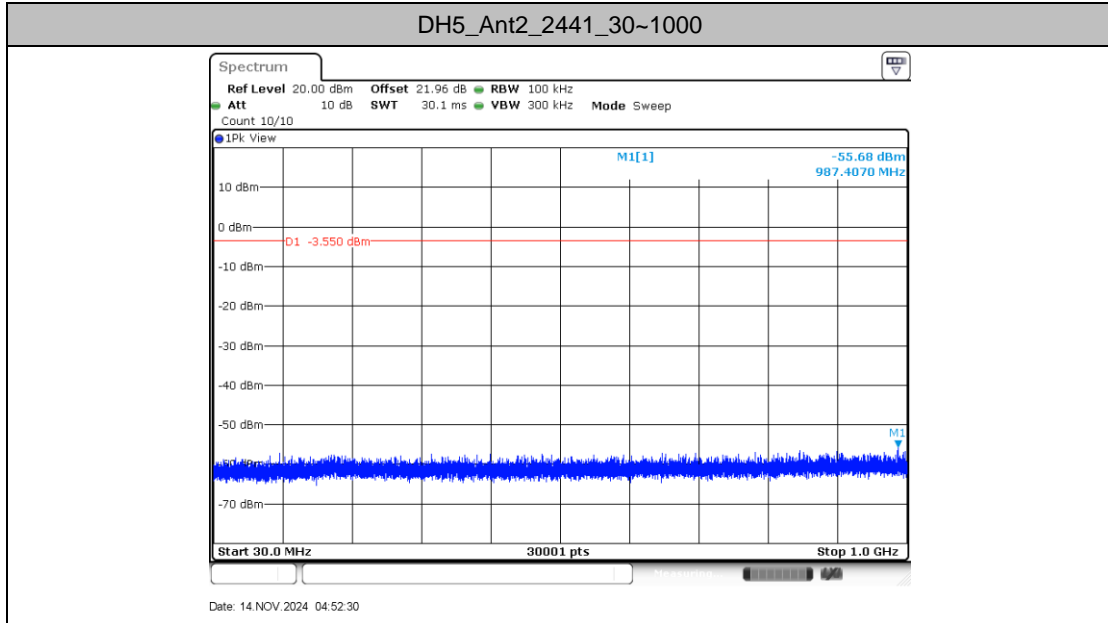


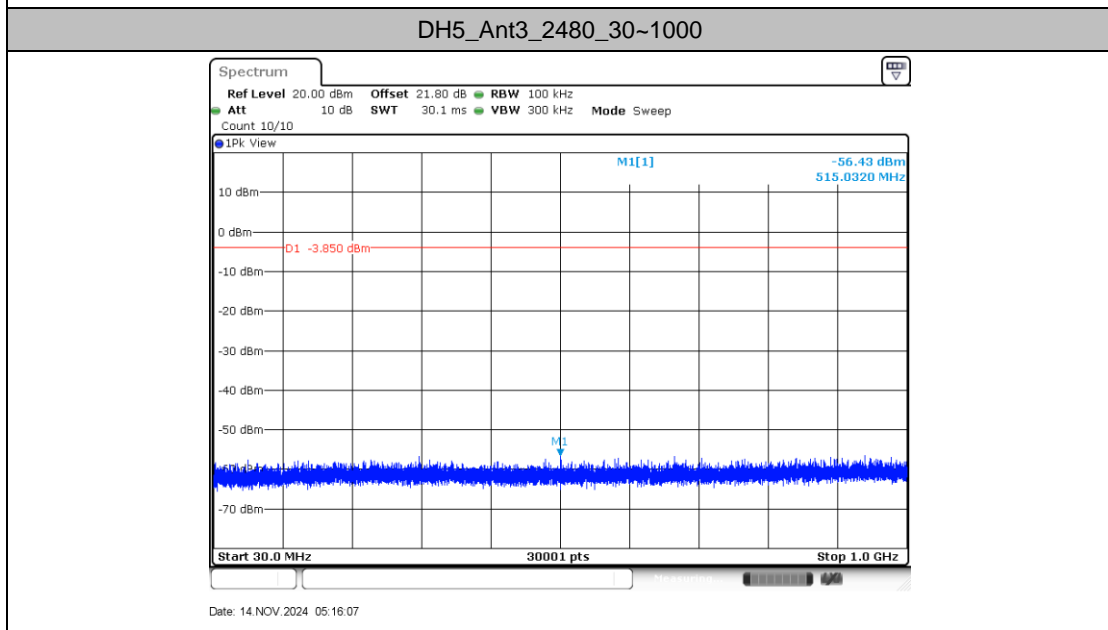
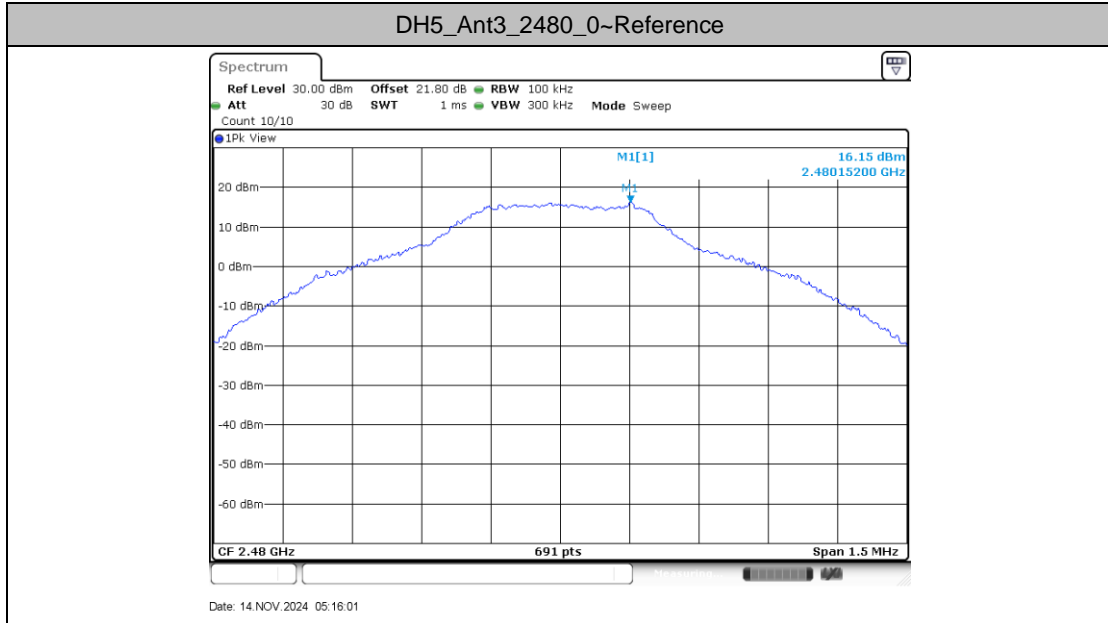


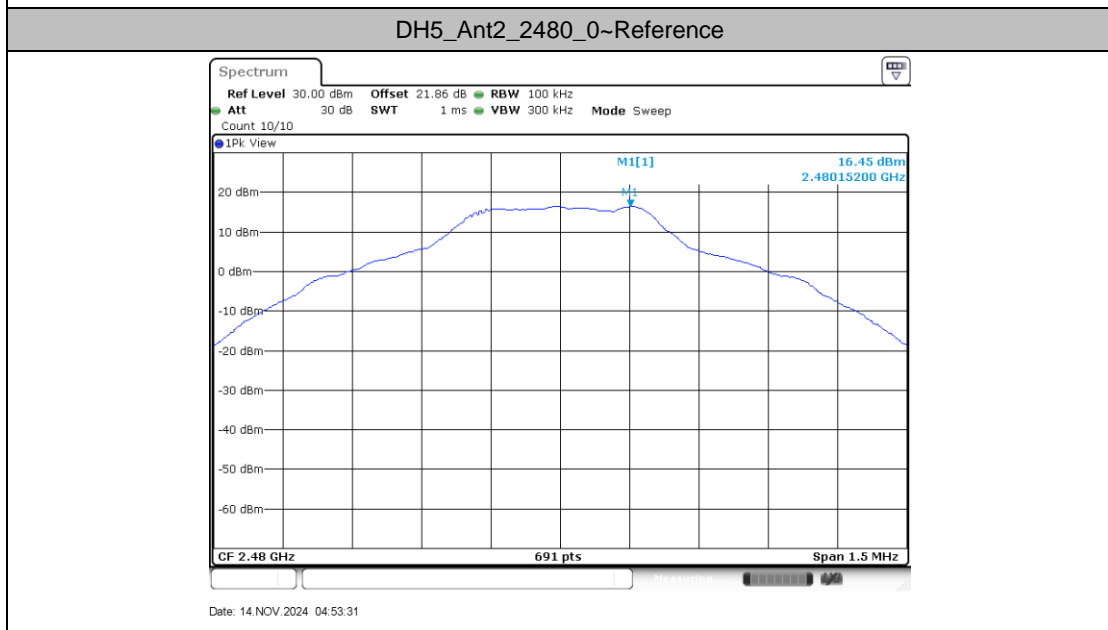
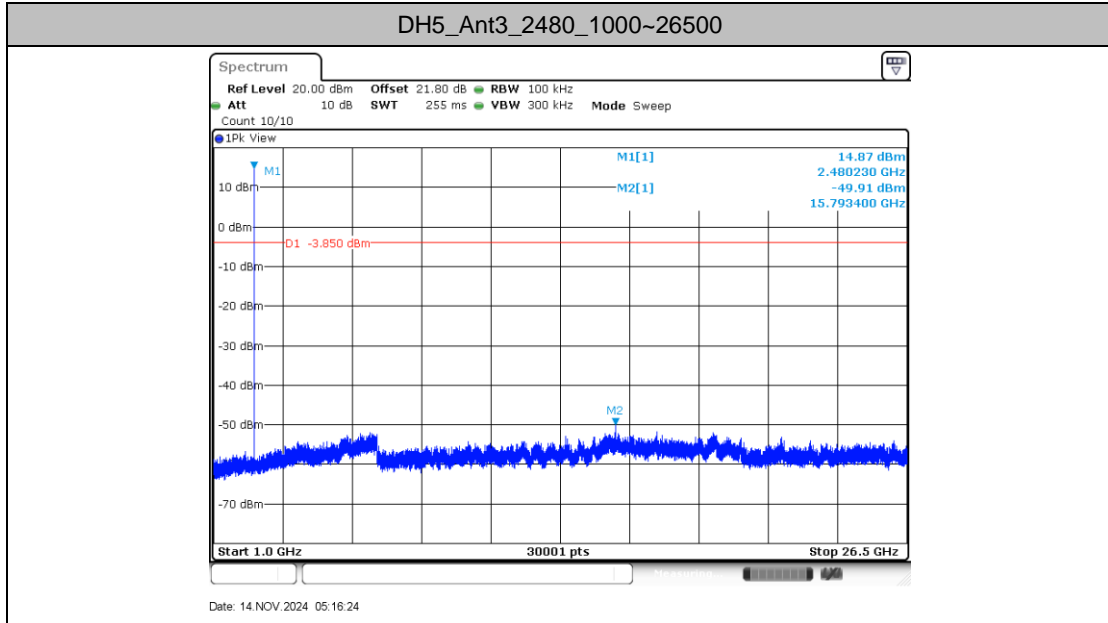


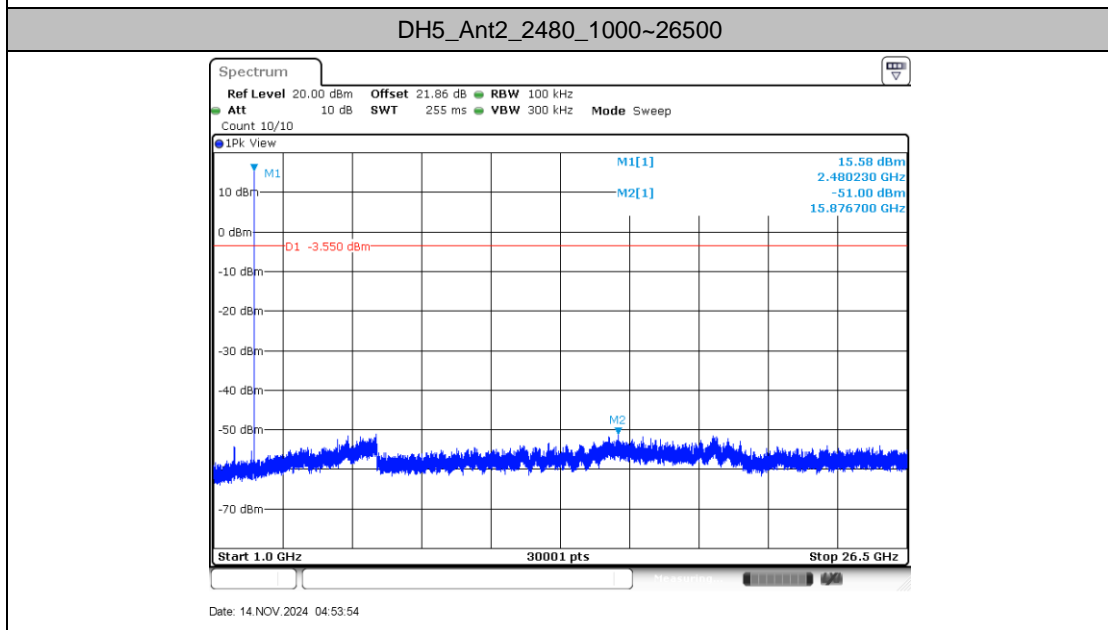
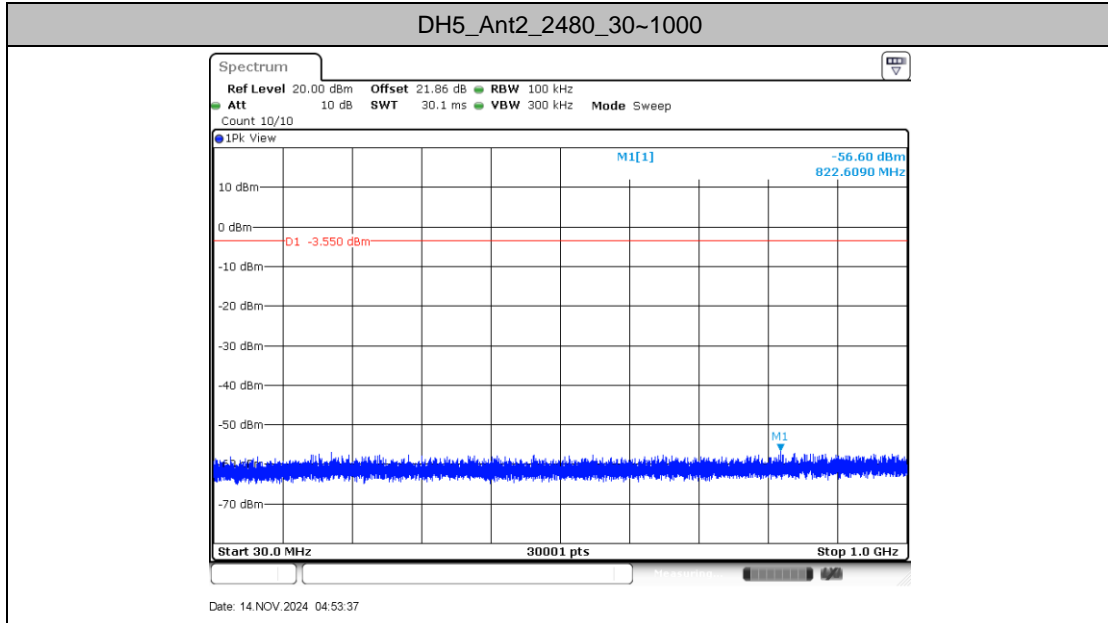


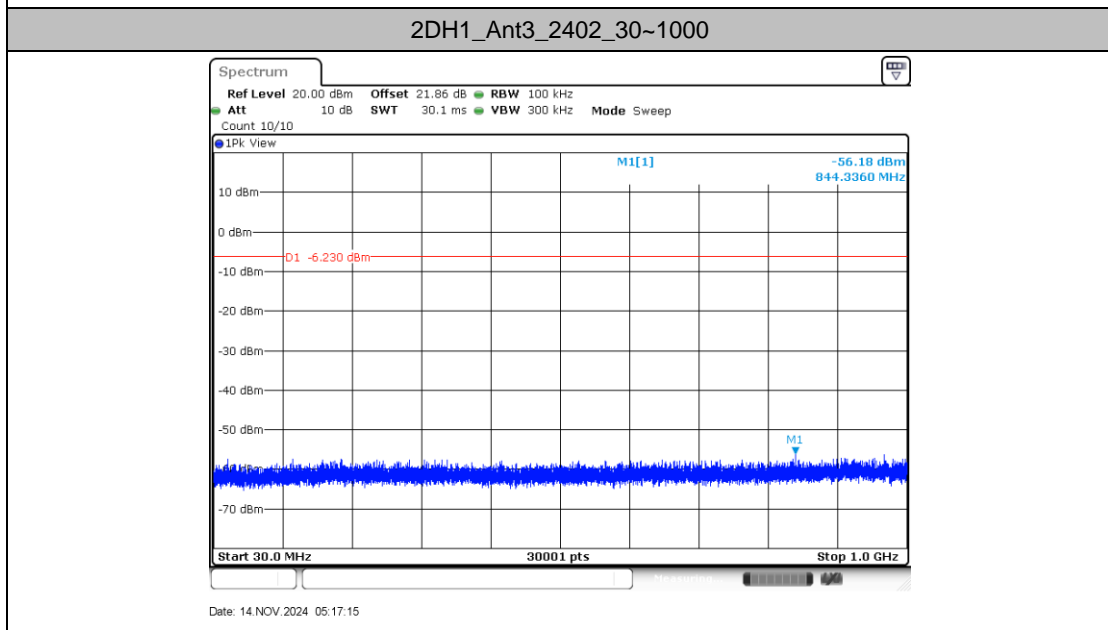
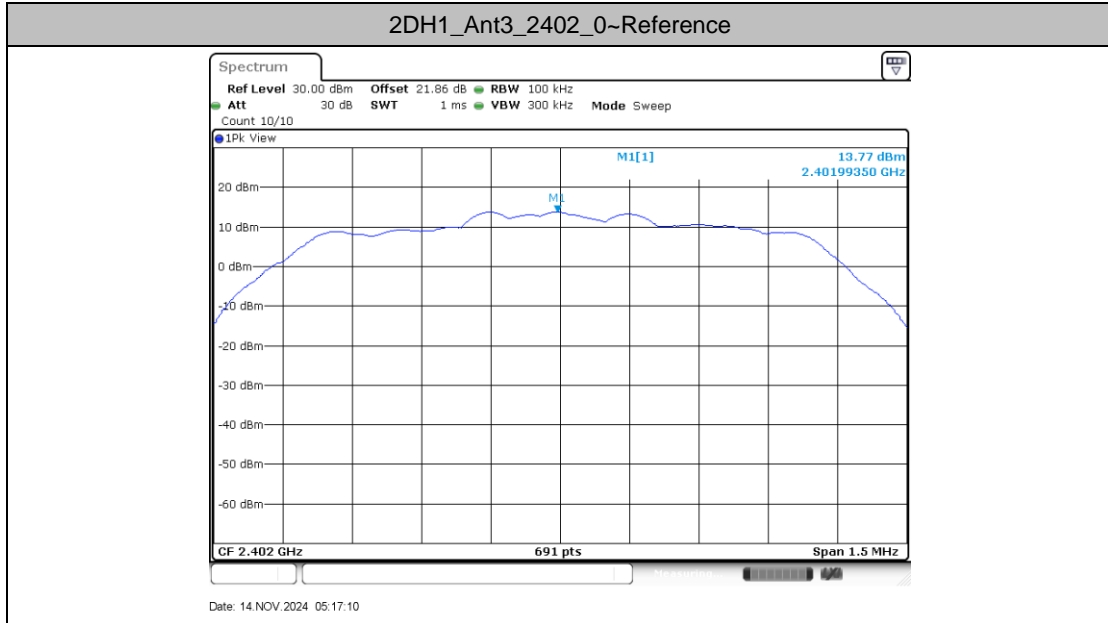


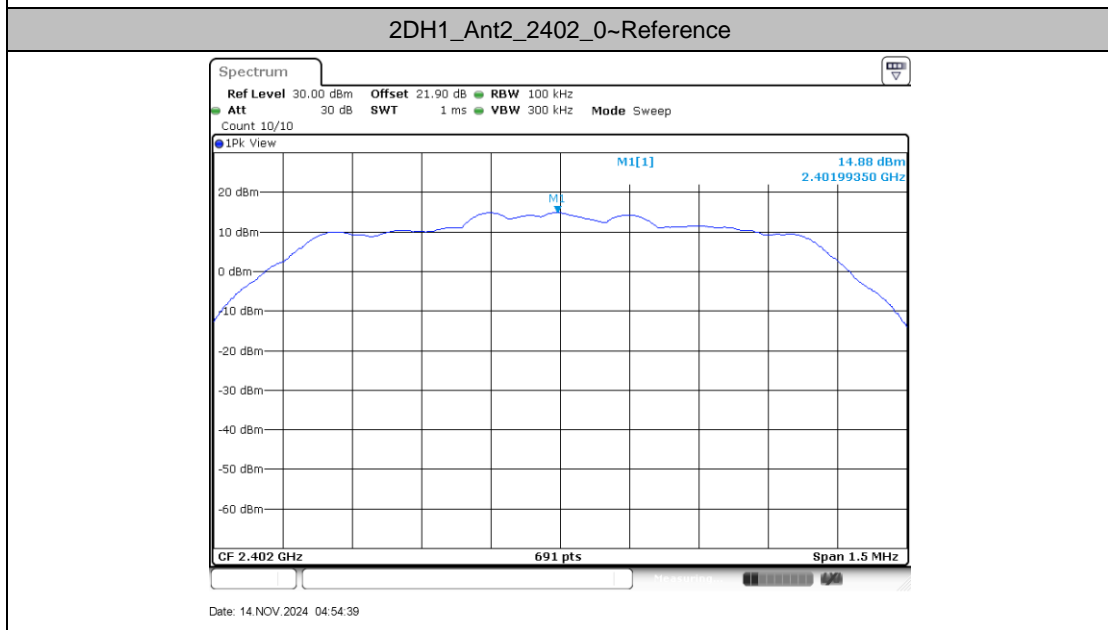
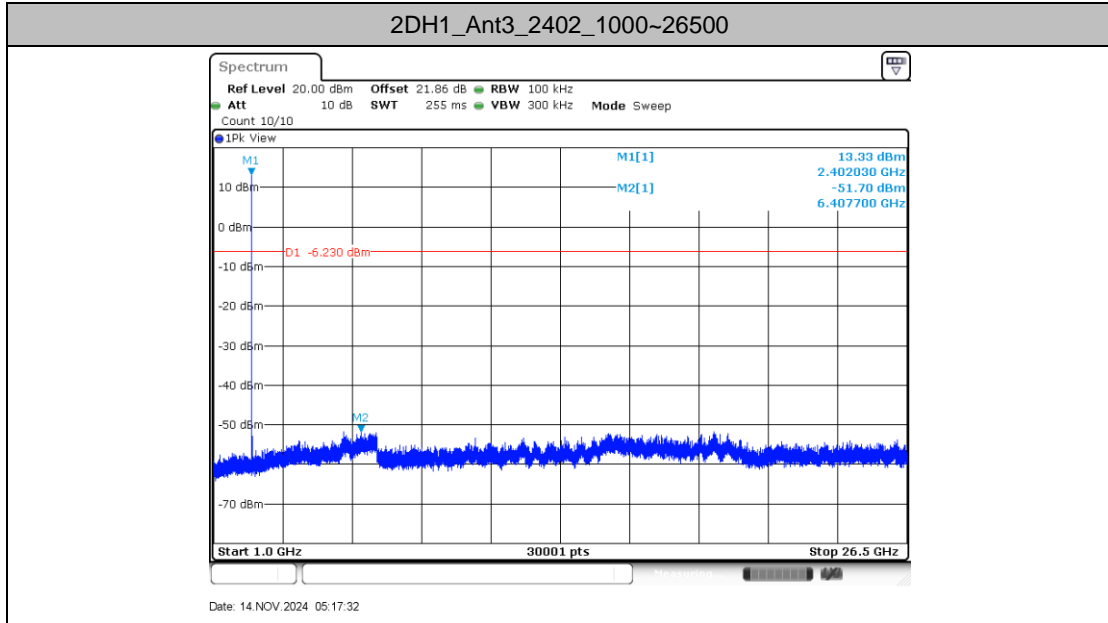


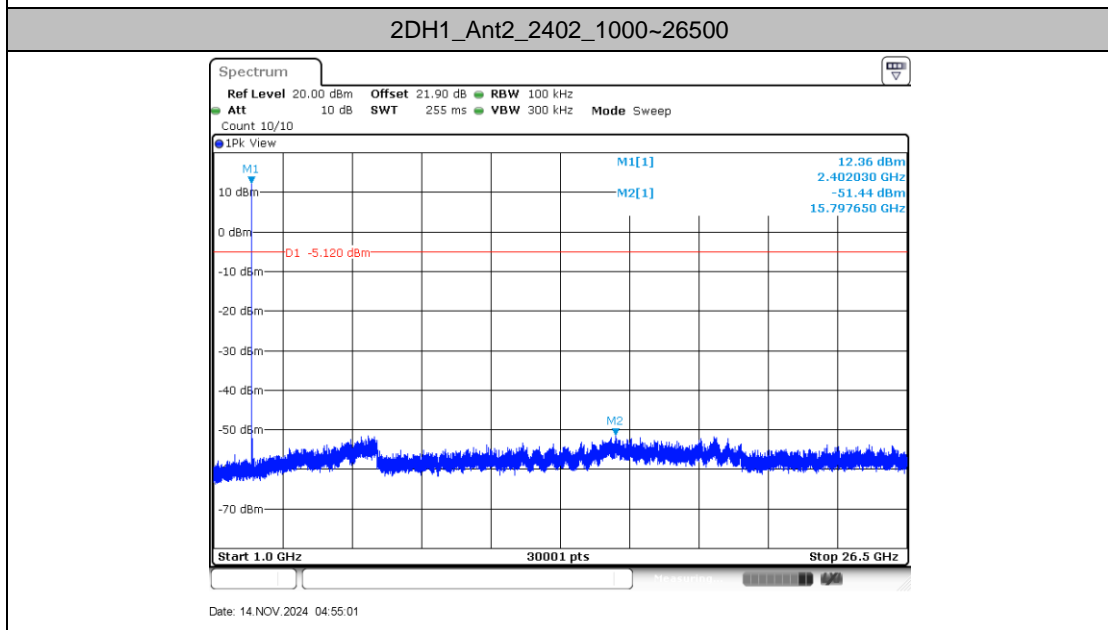
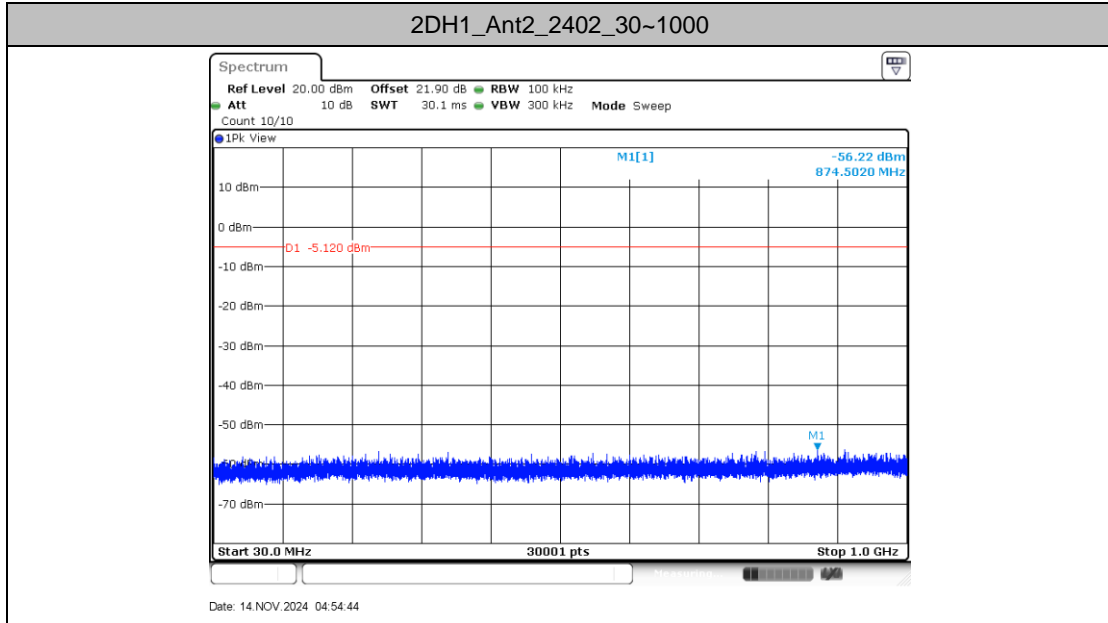


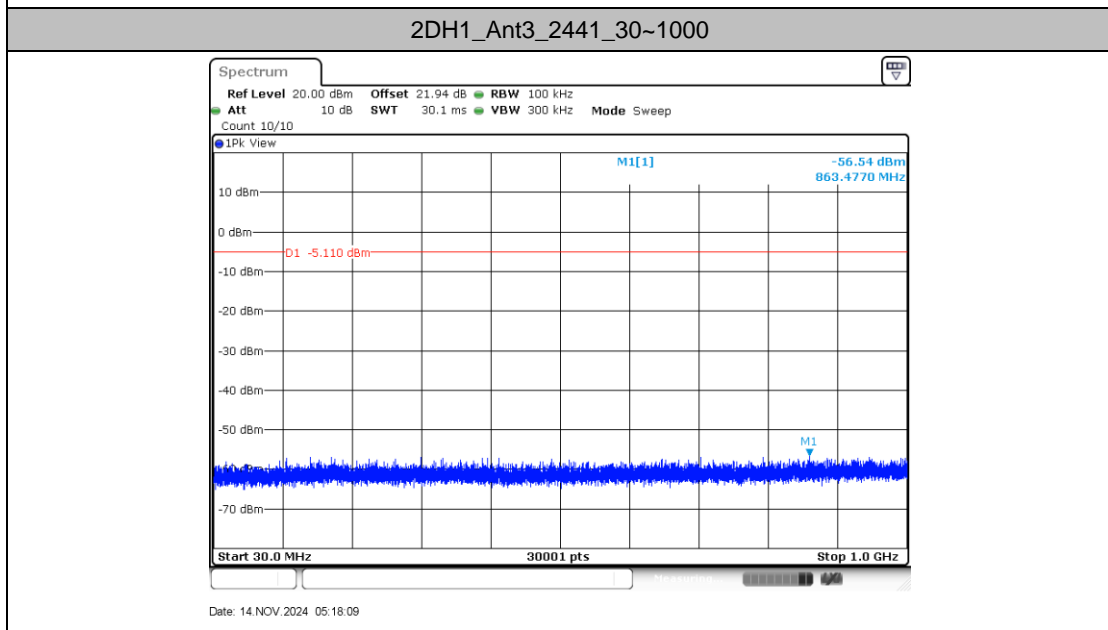
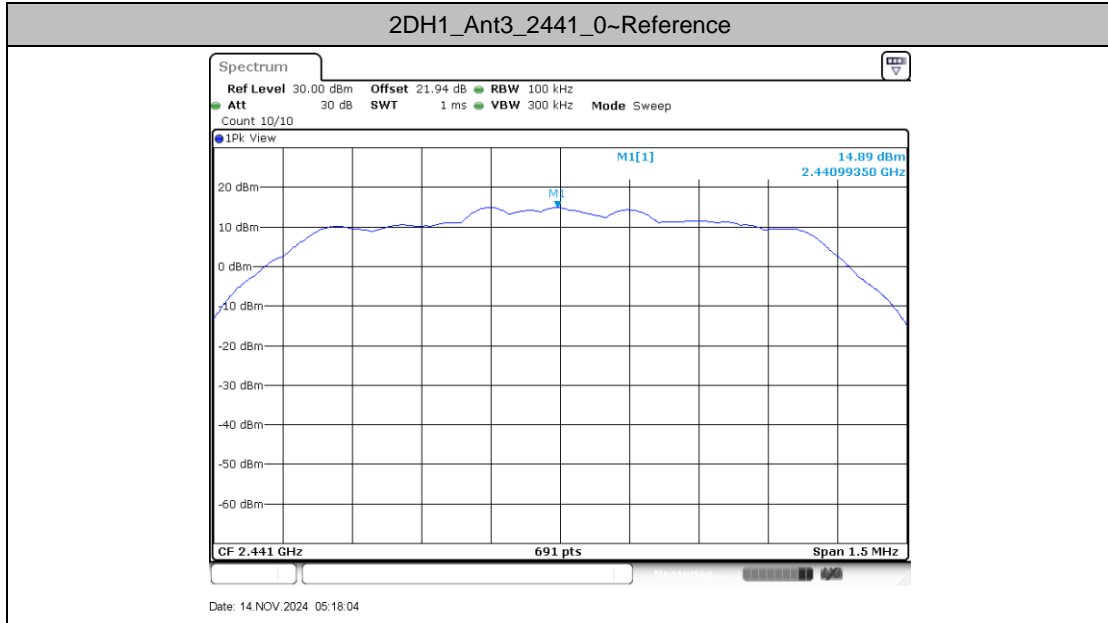


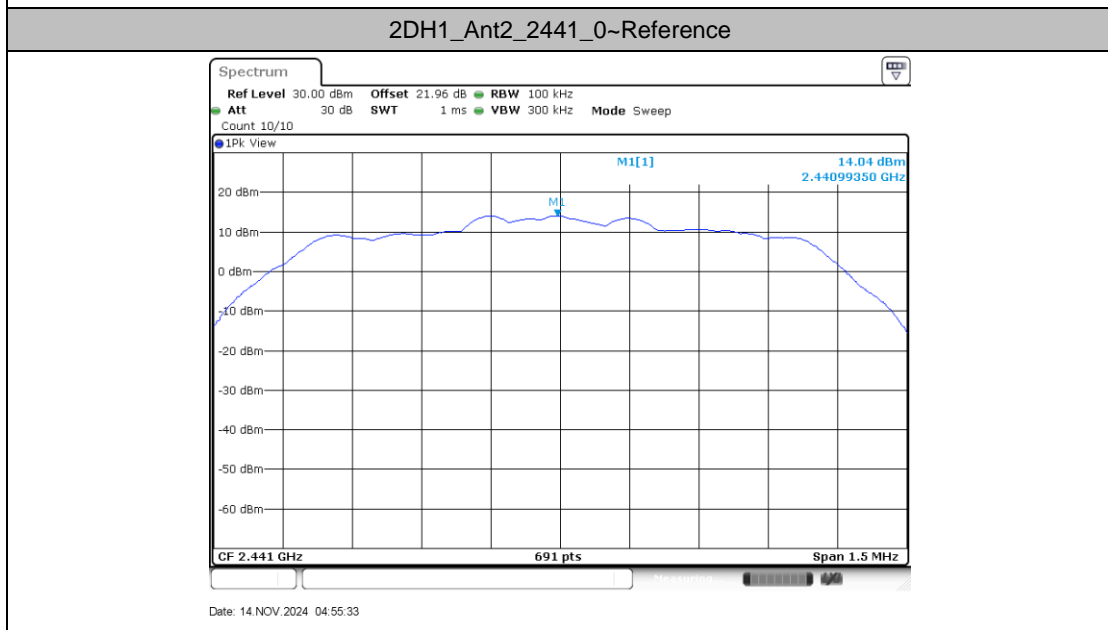
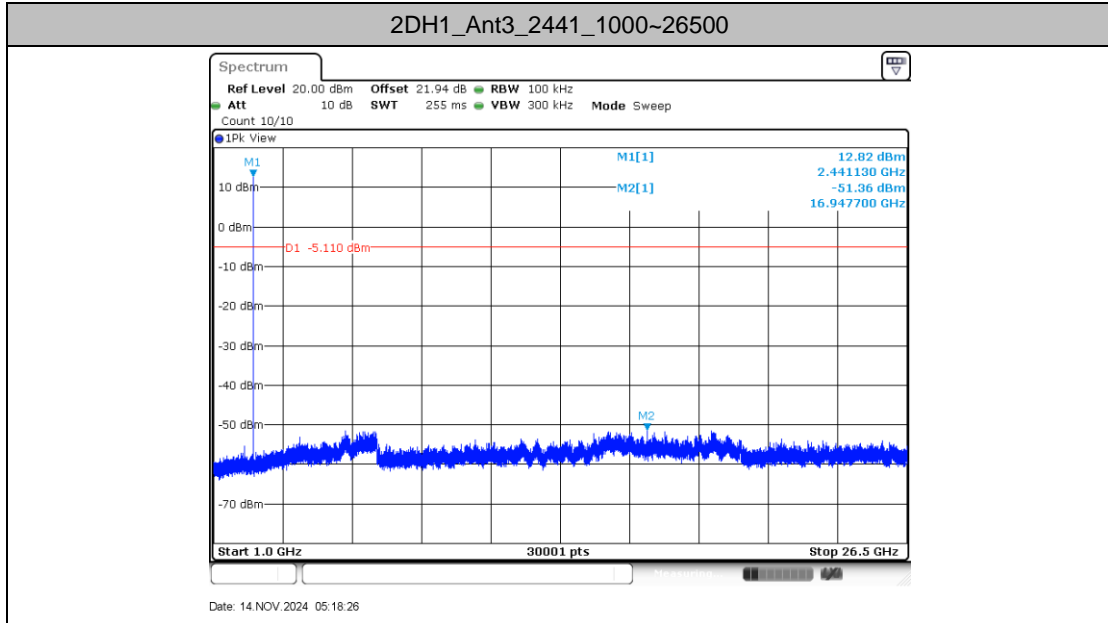


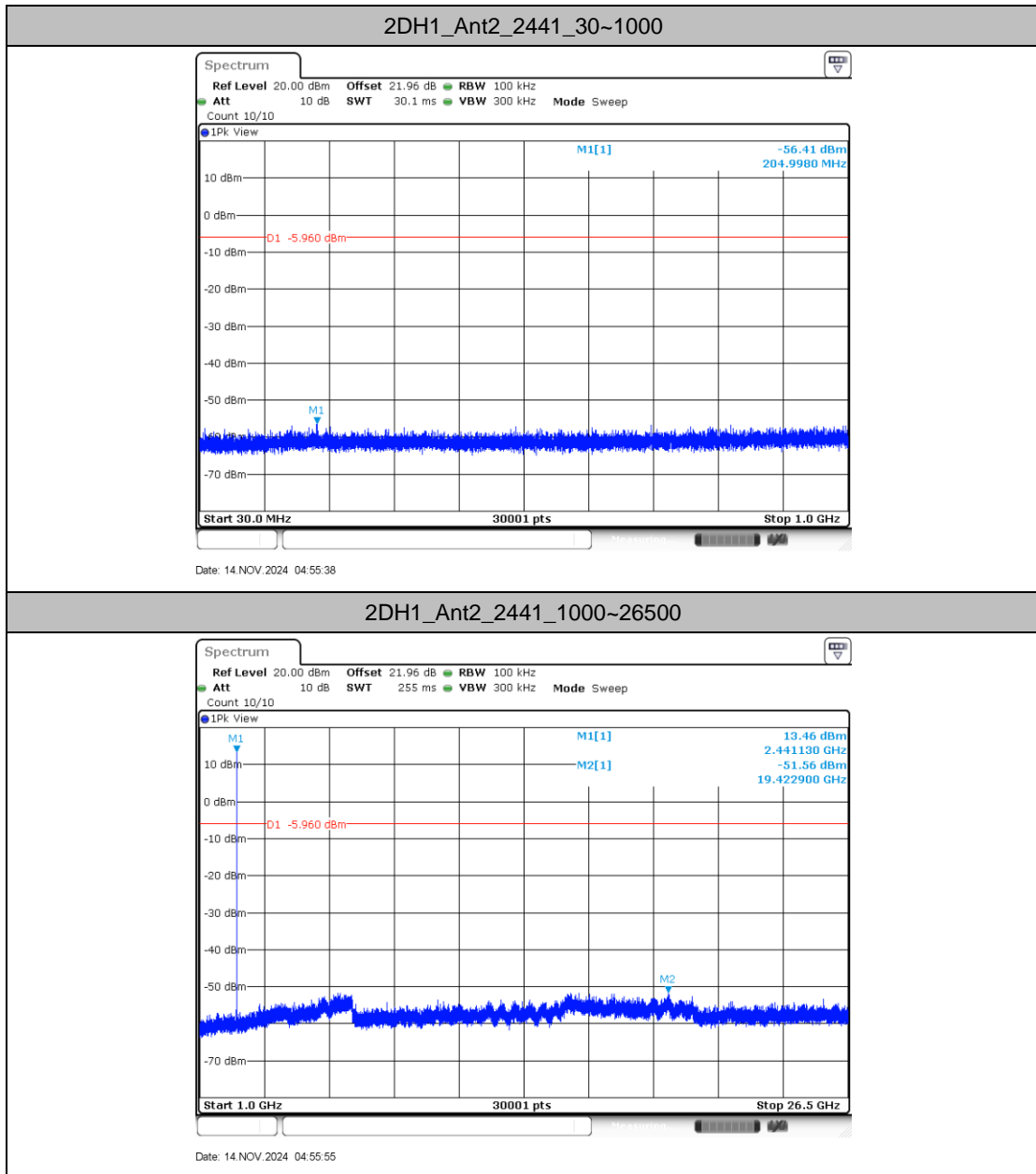


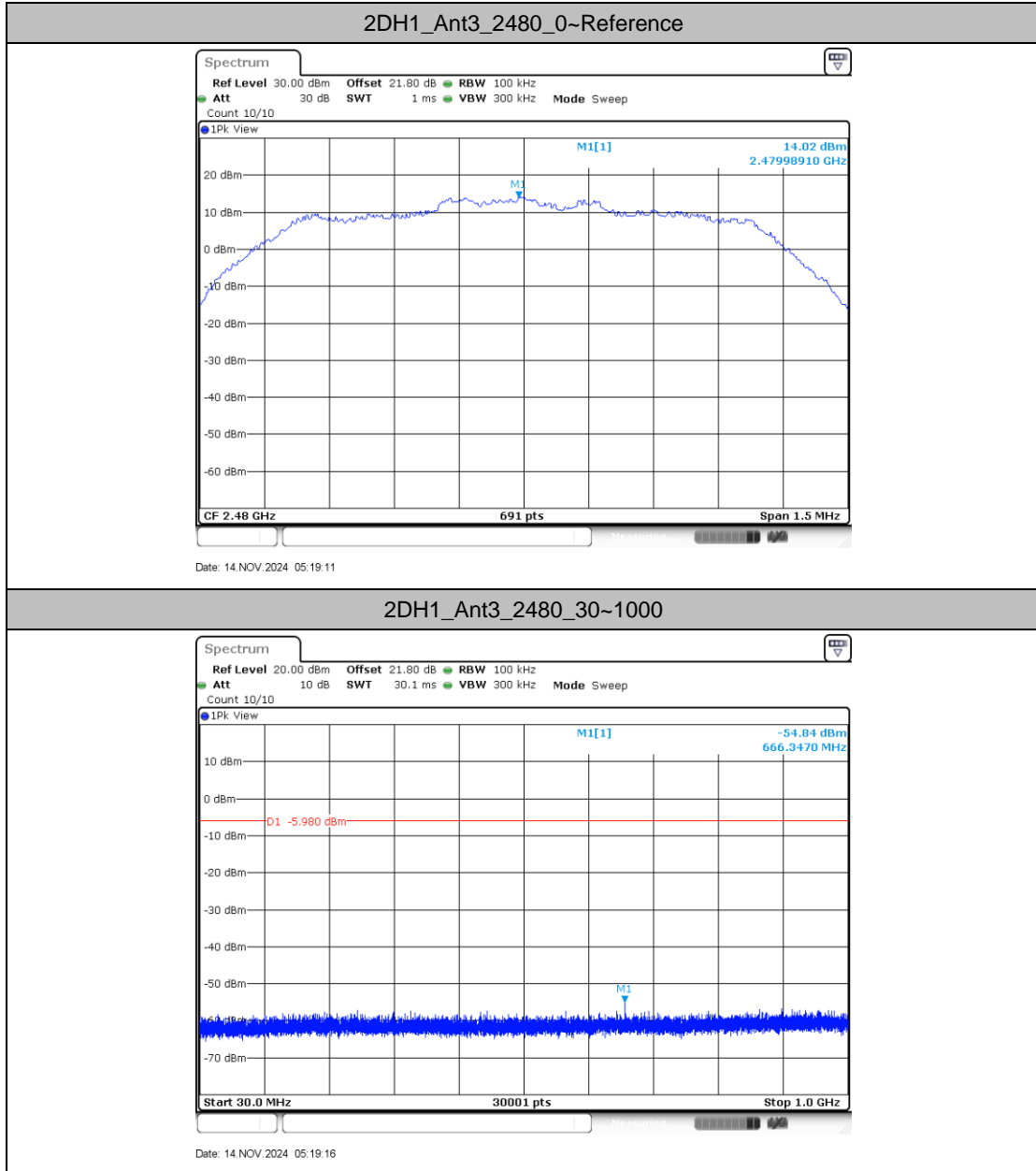


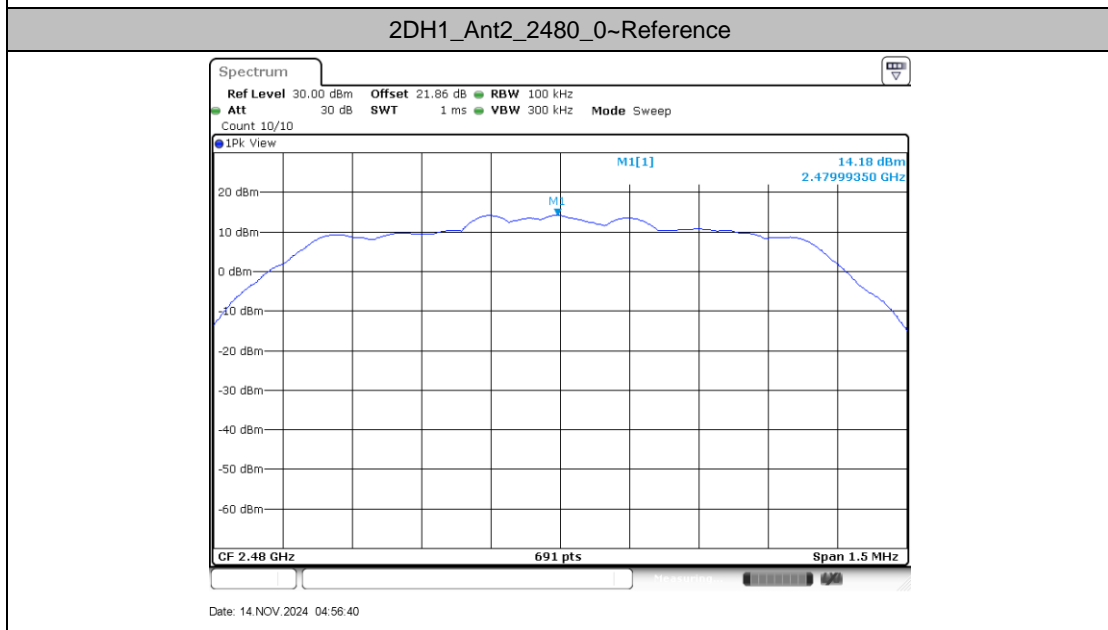
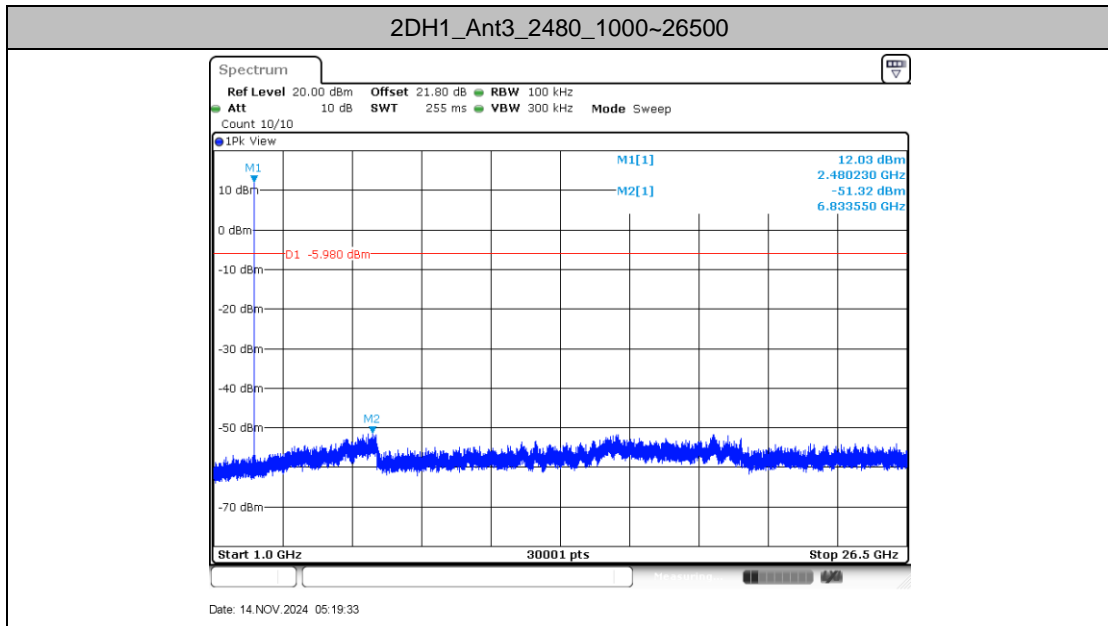


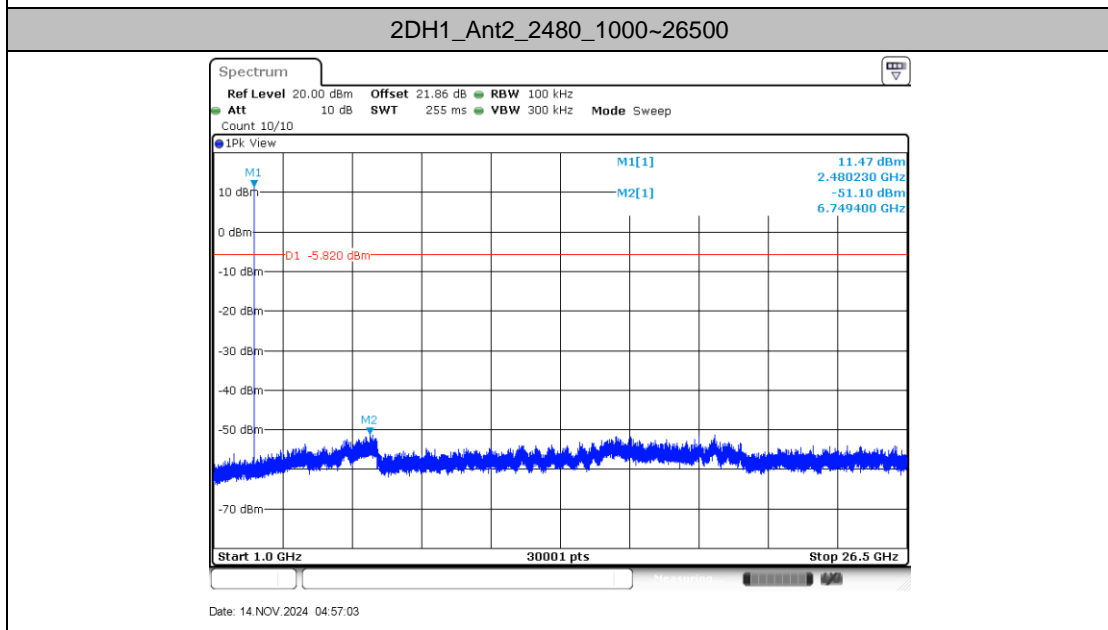
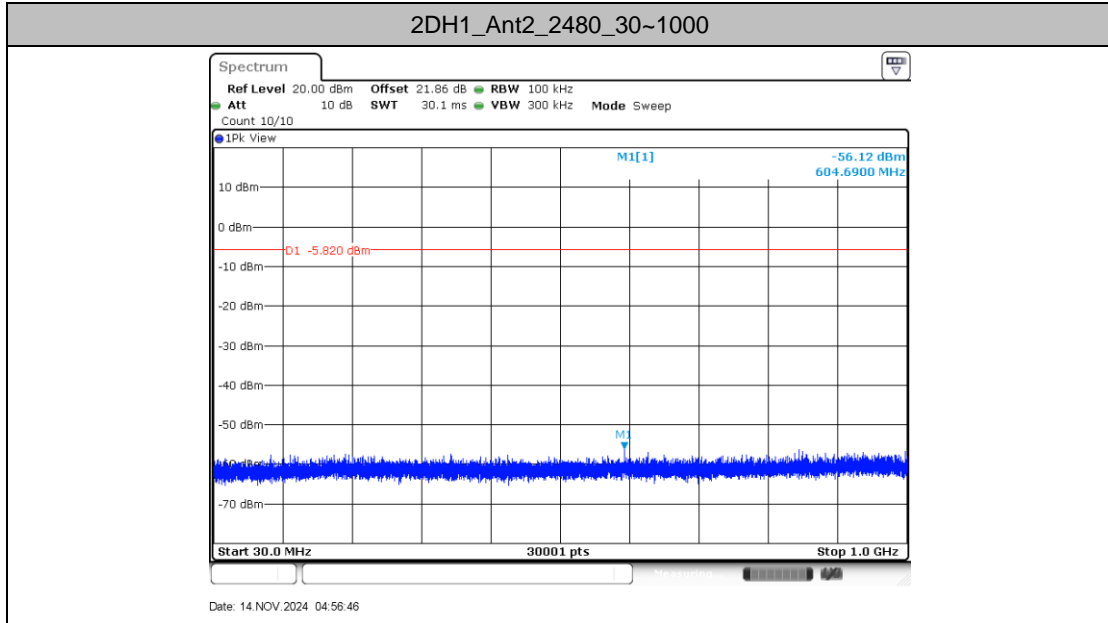


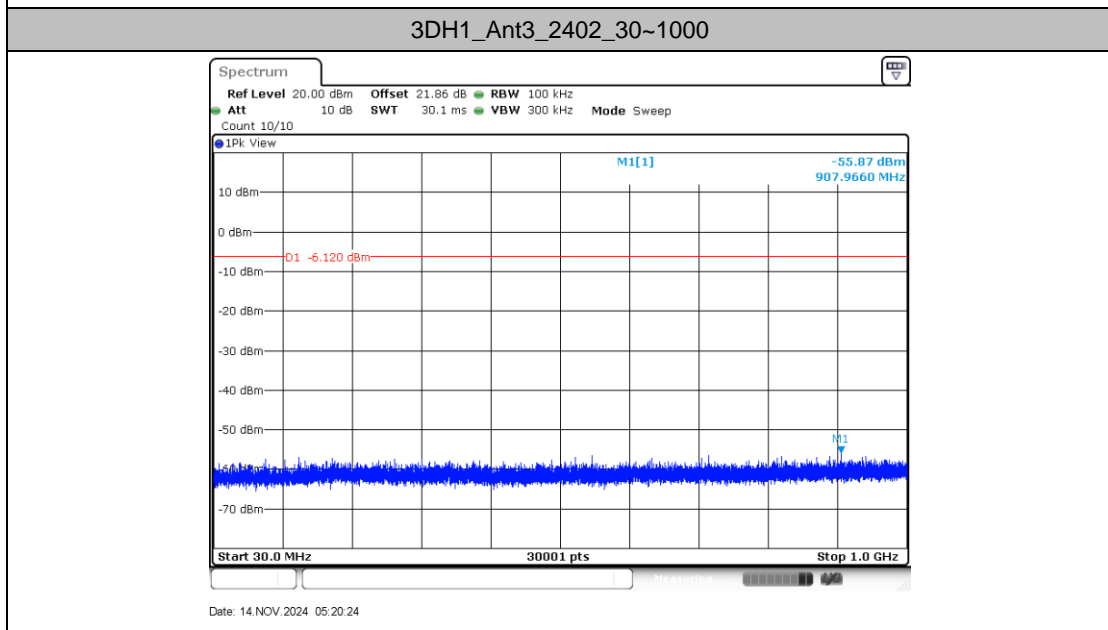
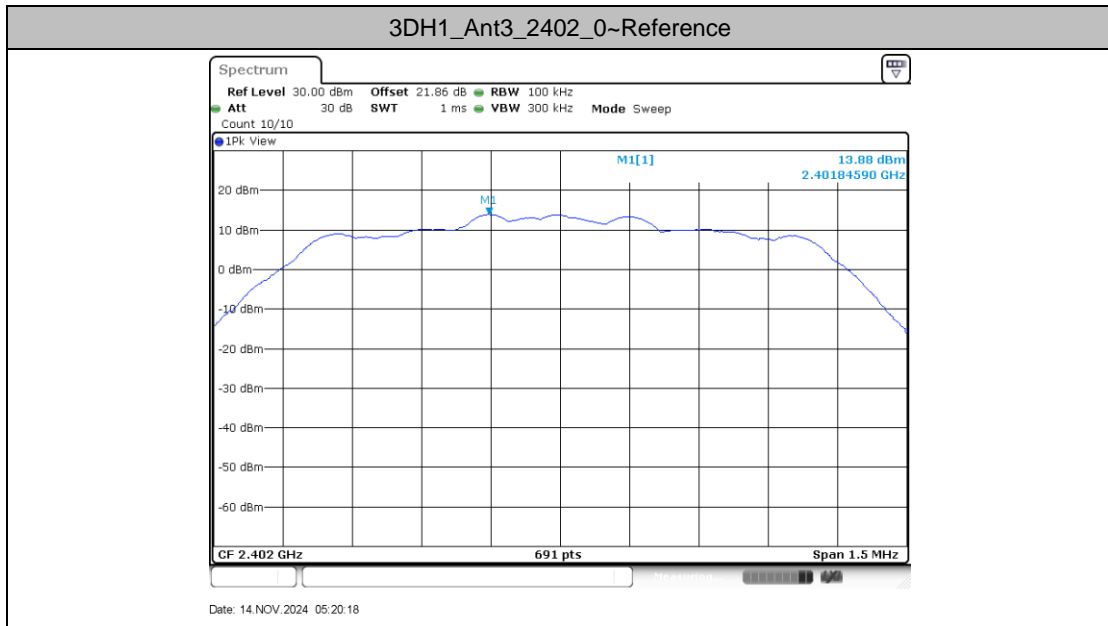


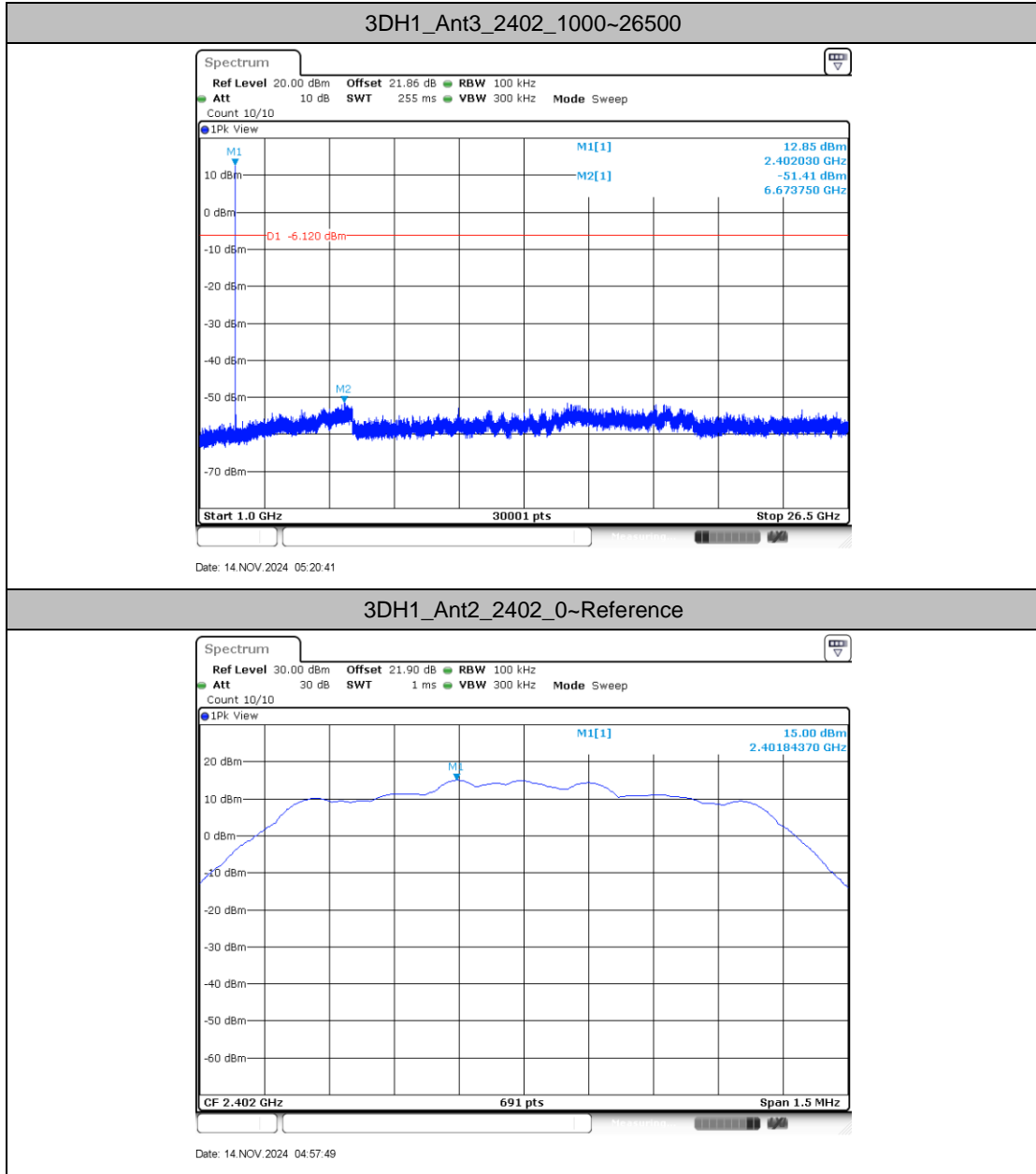


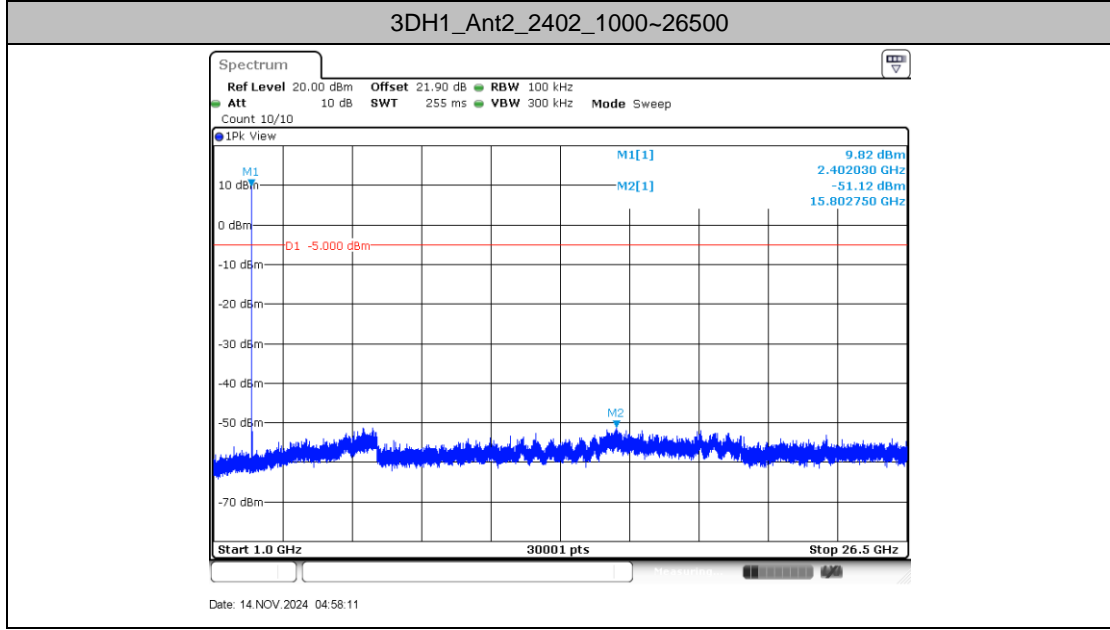
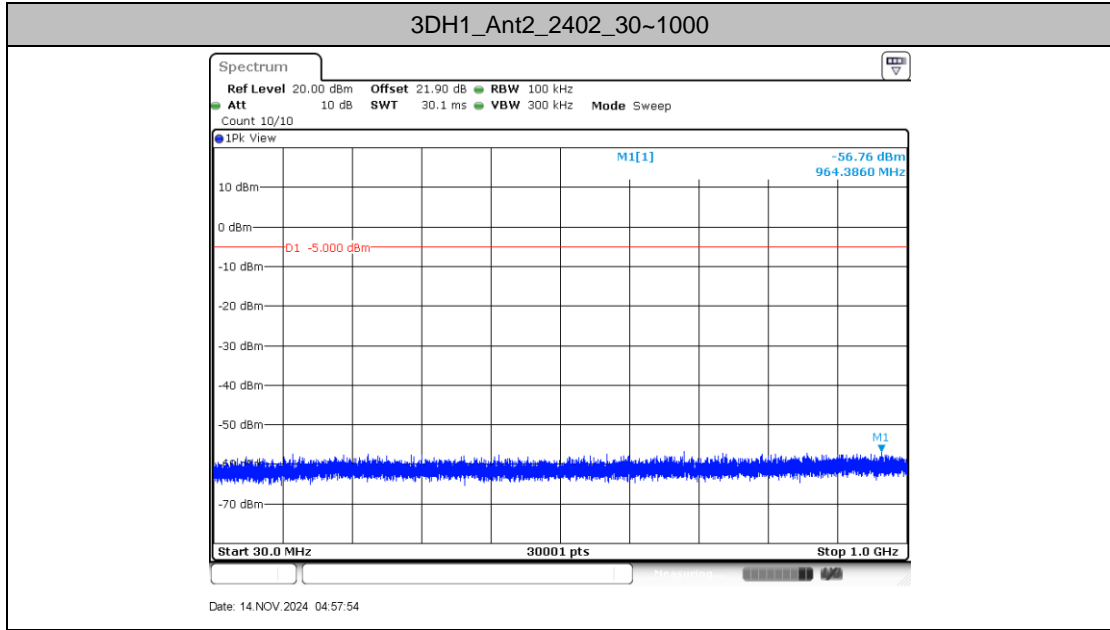


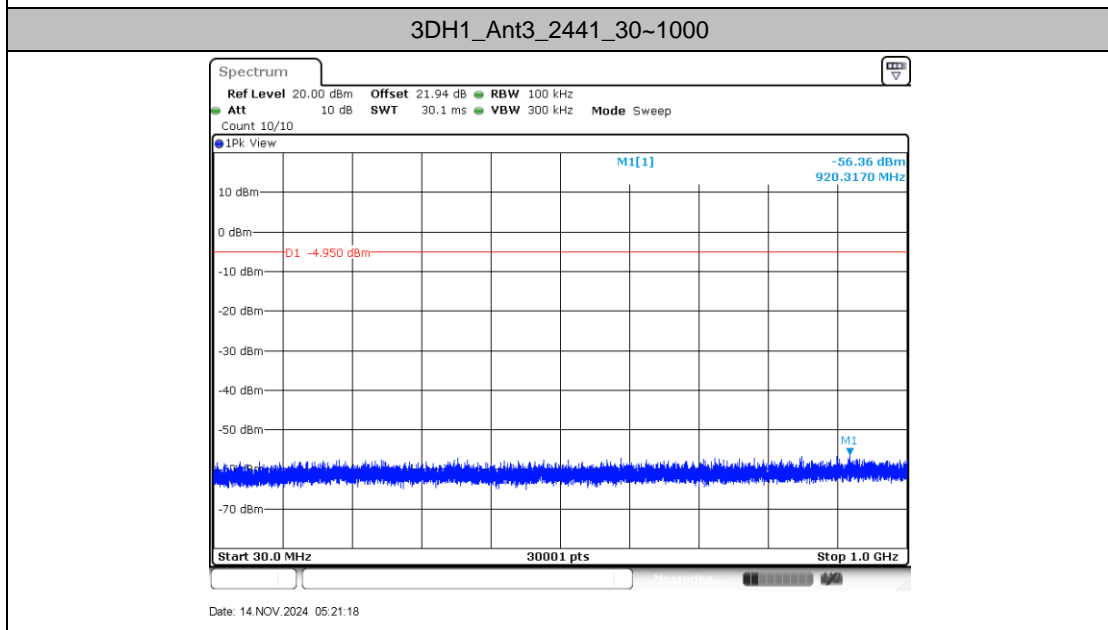
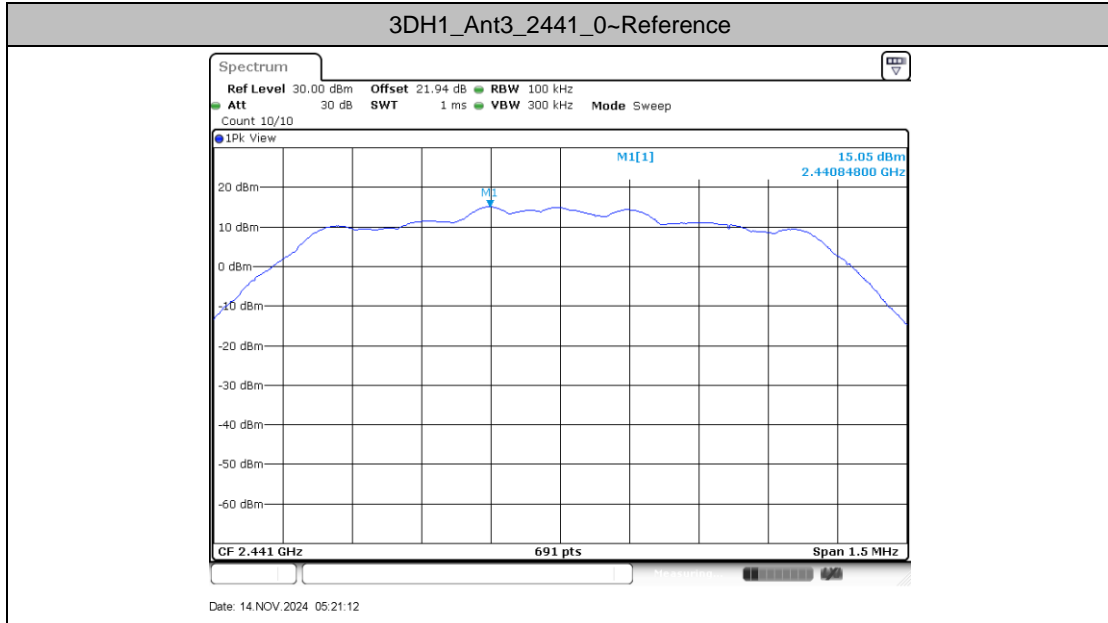


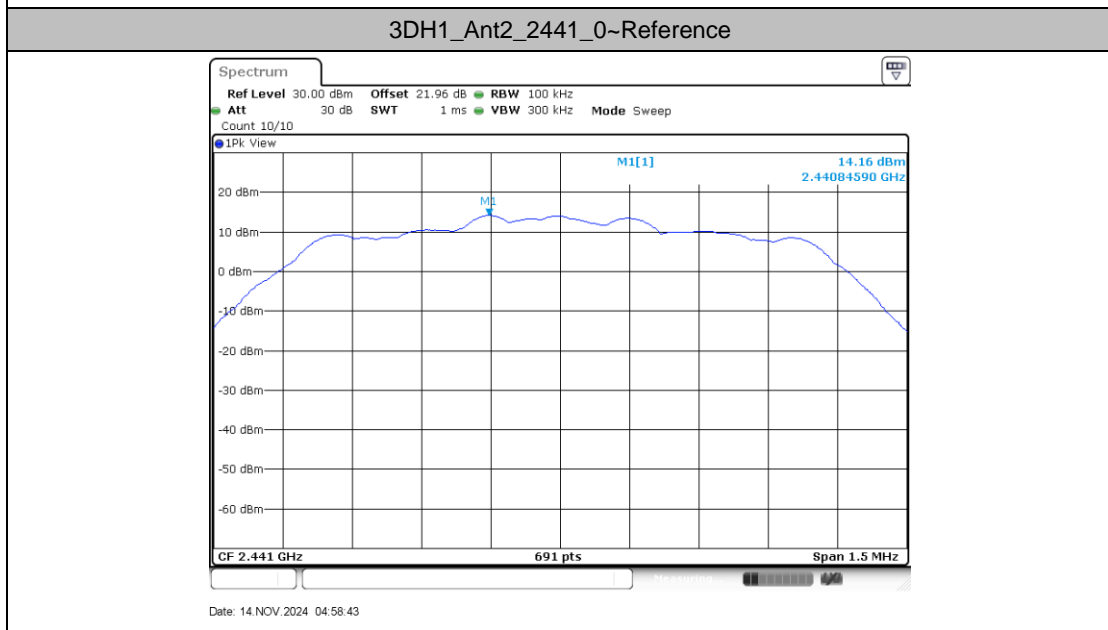
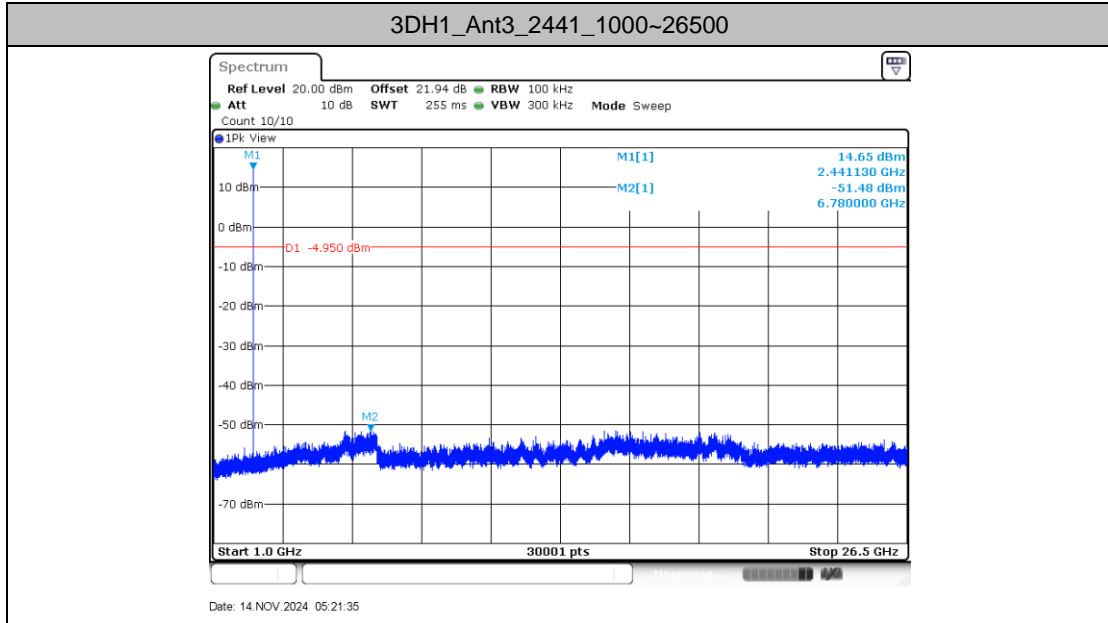


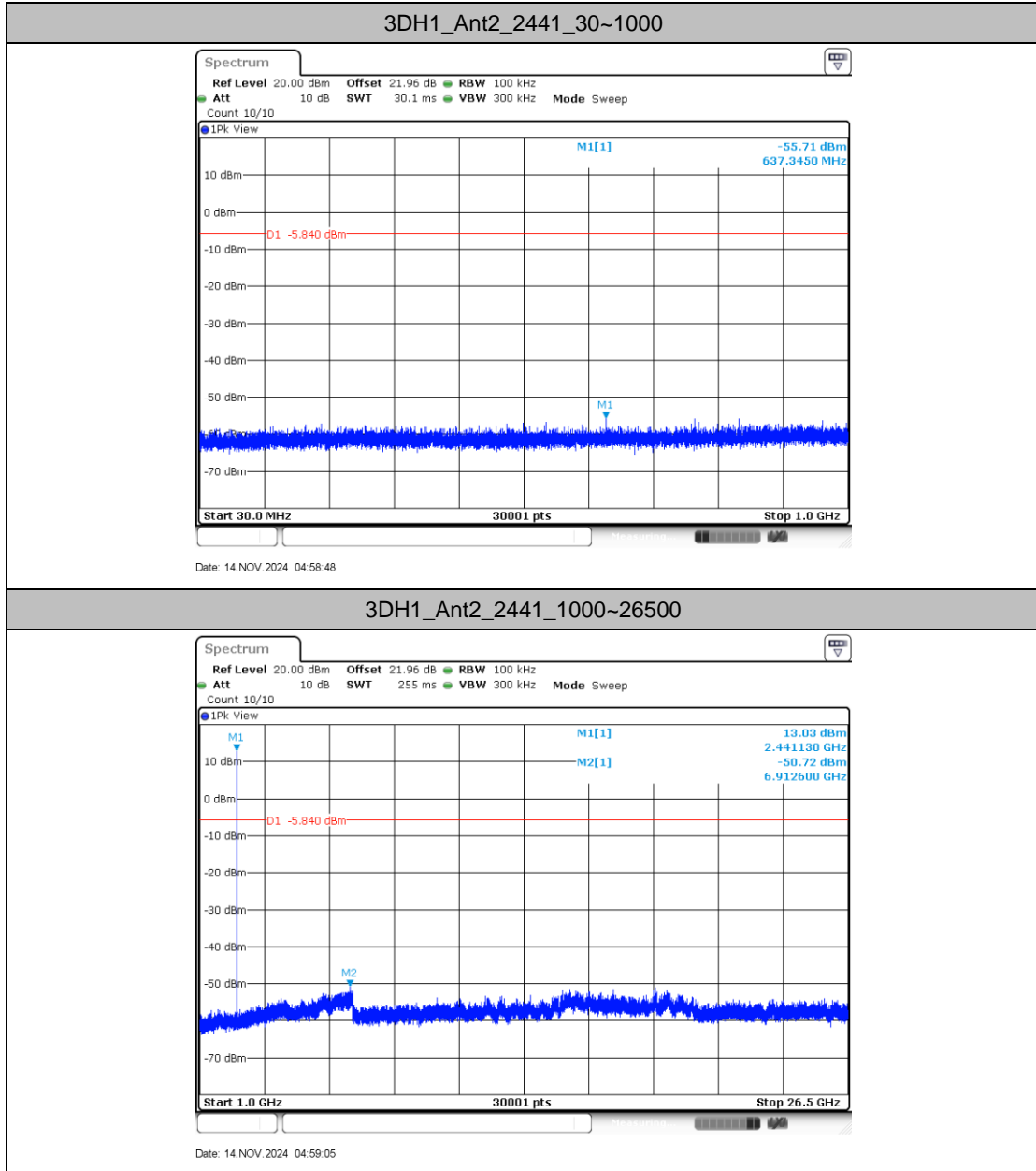


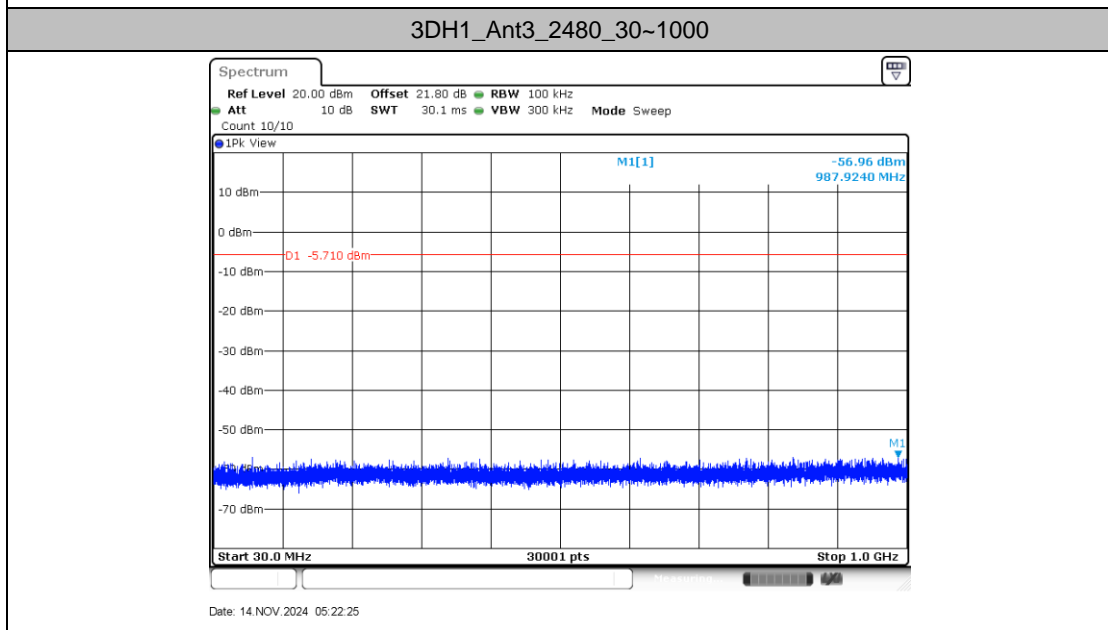
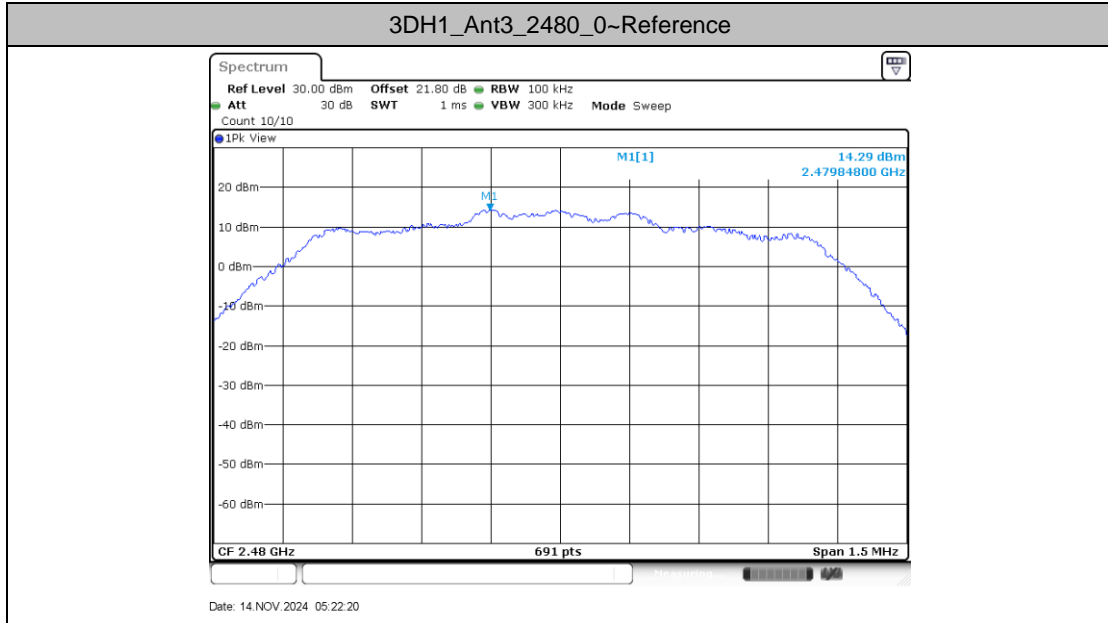


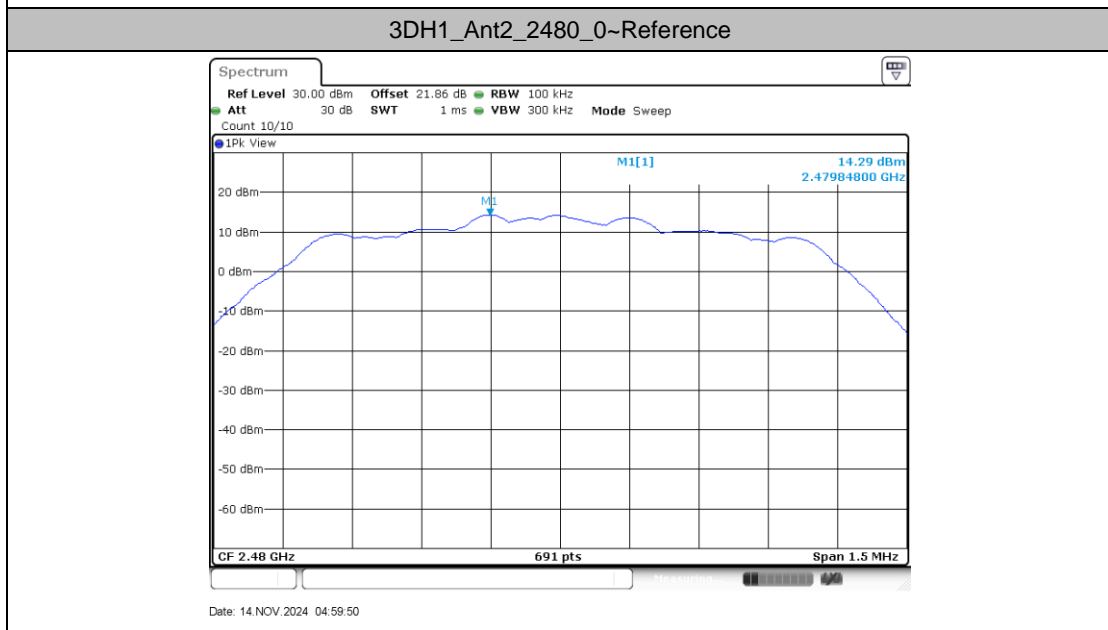
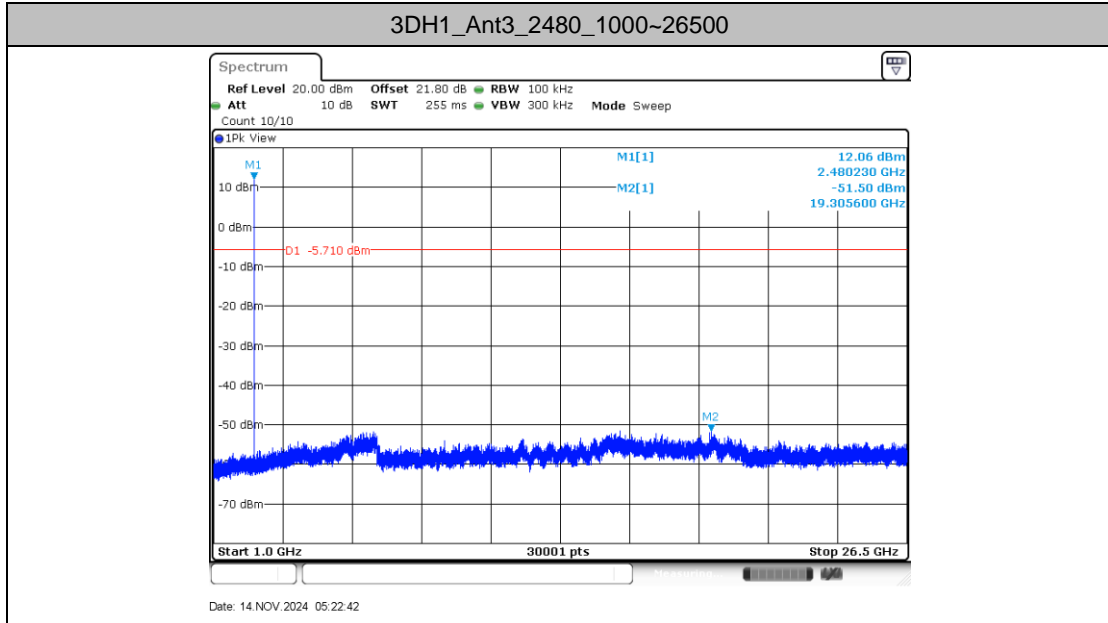


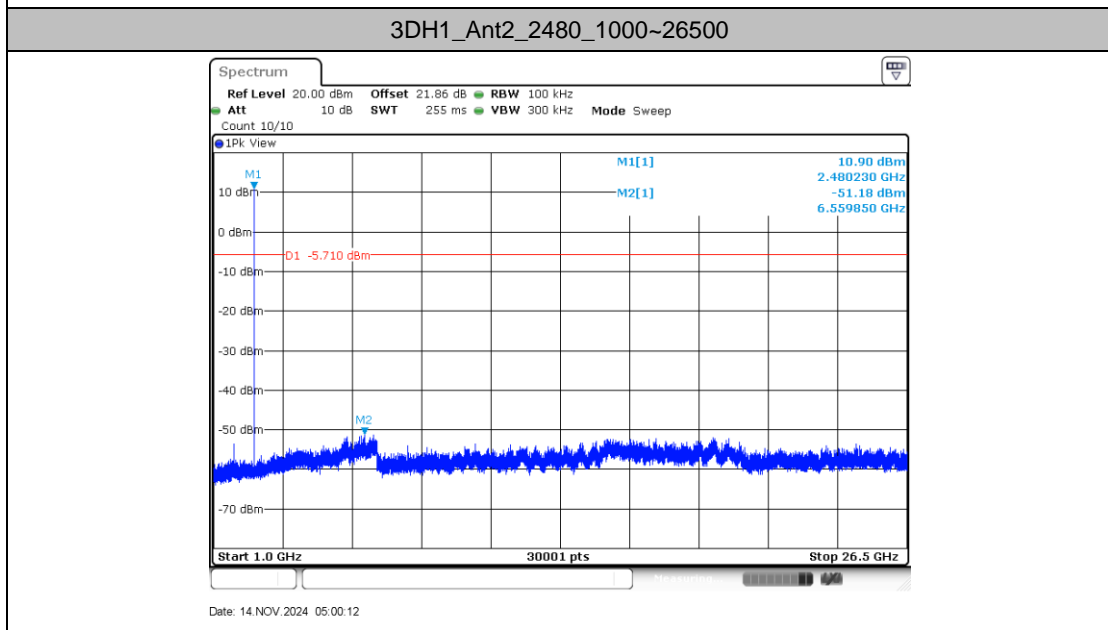
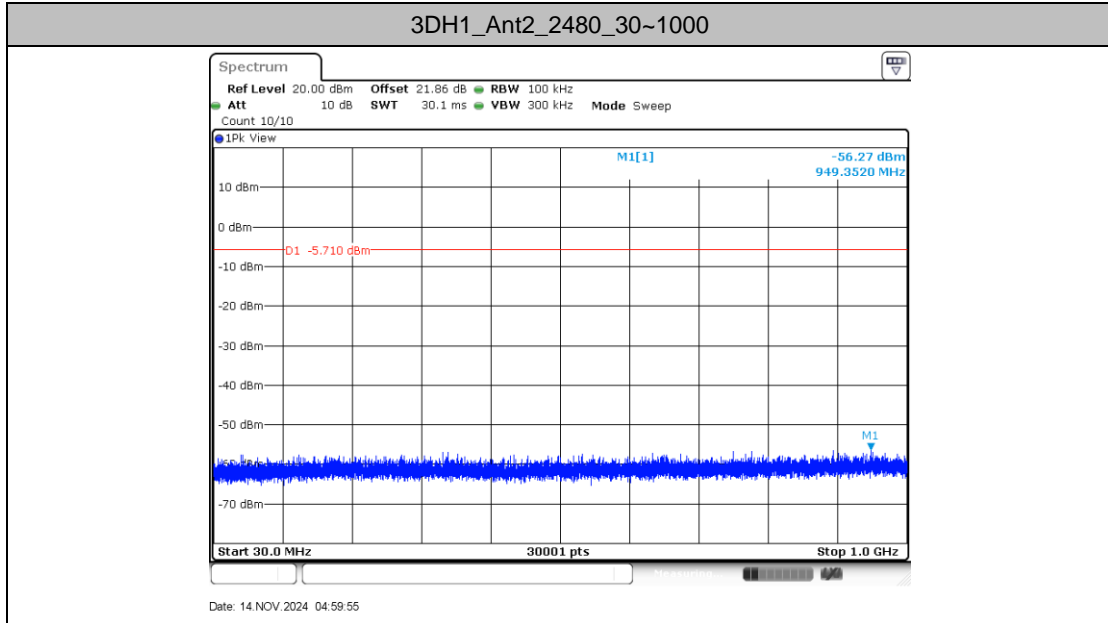








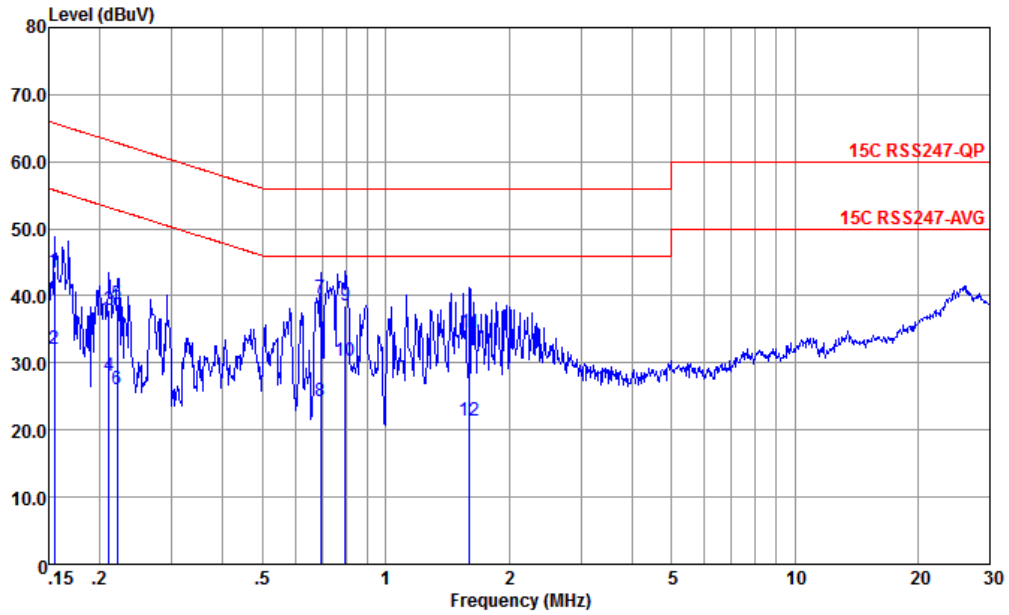






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

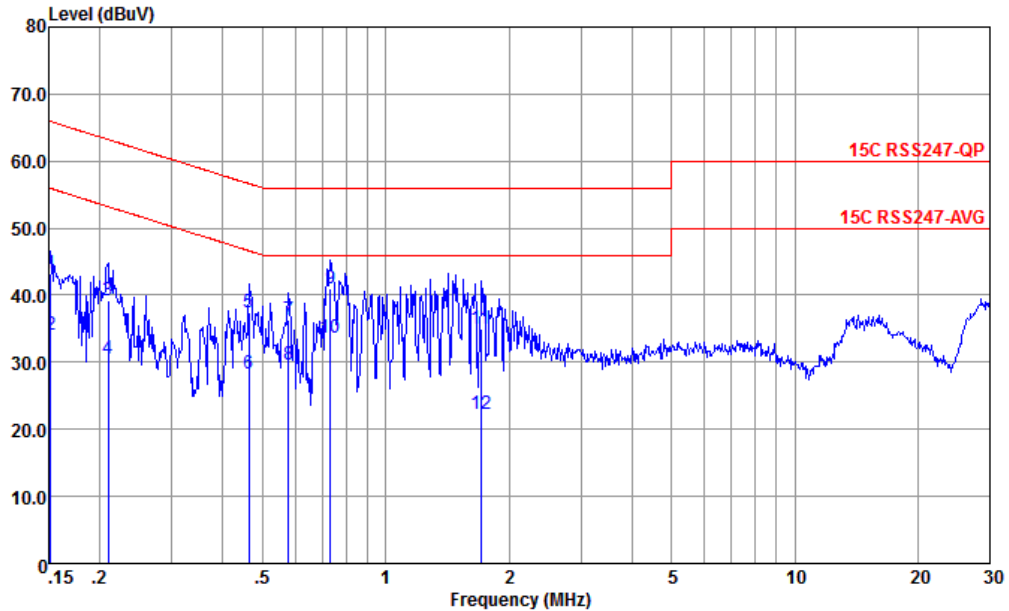


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.155	43.73	-22.01	65.74	33.19	0.12	10.42	QP
2	0.155	32.13	-23.61	55.74	21.59	0.12	10.42	Average
3	0.211	37.78	-25.40	63.18	27.30	0.08	10.40	QP
4	0.211	28.08	-25.10	53.18	17.60	0.08	10.40	Average
5	0.221	38.77	-24.02	62.79	28.30	0.08	10.39	QP
6	0.221	26.17	-26.62	52.79	15.70	0.08	10.39	Average
7	0.694	39.59	-16.41	56.00	29.60	-0.15	10.14	QP
8	0.694	24.29	-21.71	46.00	14.30	-0.15	10.14	Average
9	0.796	38.55	-17.45	56.00	28.60	-0.16	10.11	QP
10 *	0.796	30.25	-15.75	46.00	20.30	-0.16	10.11	Average
11	1.602	34.47	-21.53	56.00	24.60	-0.21	10.08	QP
12	1.602	21.37	-24.63	46.00	11.50	-0.21	10.08	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.152	43.14	-22.77	65.91	32.60	0.12	10.42	QP
2	0.152	34.14	-21.77	55.91	23.60	0.12	10.42	Average
3	0.209	39.30	-23.93	63.23	28.80	0.10	10.40	QP
4	0.209	30.60	-22.63	53.23	20.10	0.10	10.40	Average
5	0.464	37.39	-19.24	56.63	27.30	-0.15	10.24	QP
6	0.464	28.39	-18.24	46.63	18.30	-0.15	10.24	Average
7	0.579	36.43	-19.57	56.00	26.40	-0.16	10.19	QP
8	0.579	29.73	-16.27	46.00	19.70	-0.16	10.19	Average
9	0.731	41.06	-14.94	56.00	31.10	-0.17	10.13	QP
10 *	0.731	33.66	-12.34	46.00	23.70	-0.17	10.13	Average
11	1.707	34.99	-21.01	56.00	25.10	-0.19	10.08	QP
12	1.707	22.19	-23.81	46.00	12.30	-0.19	10.08	Average

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 Data

Test Engineer :	Jerry Xu	Relative Humidity :	51 ~ 53 %
		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	3	Bluetooth BR_GFSK	0	2402	1Mbps	-	-
Mode 2	2400-2483.5	3	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	3	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 10	2400-2483.5	2	Bluetooth BR_GFSK	0	2402	1Mbps	-	-
Mode 11	2400-2483.5	2	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 12	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
1	Bluetooth BR_GFSK	0	2367.20	55.34	74.00	-18.66	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	42.31	74.00	-31.69	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	44.53	74.00	-29.47	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.83	59.05	74.00	-14.95	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	46.38	74.00	-27.62	H	PEAK	Pass	Harmonic
10	Bluetooth BR_GFSK	0	2349.78	56.73	74.00	-17.27	V	PEAK	Pass	Band Edge
10	Bluetooth BR_GFSK	0	4804.00	42.51	74.00	-31.49	V	PEAK	Pass	Harmonic
11	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
11	Bluetooth BR_GFSK	39	7323.00	45.34	74.00	-28.66	V	PEAK	Pass	Harmonic
12	Bluetooth BR_GFSK	78	2483.66	57.61	74.00	-16.39	V	PEAK	Pass	Band Edge
12	Bluetooth BR_GFSK	78	7440.00	44.93	74.00	-29.07	H	PEAK	Pass	Harmonic



Mode	1																																																																																																													
	Band Edge																																																																																																													
	2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz																																																																																																													
ANT	3																																																																																																													
Pol.	Horizontal	Fundamental																																																																																																												
Peak	<table border="1"> <thead> <tr> <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> </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>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>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2367.20</td> <td>55.34</td> <td>74.00</td> <td>-18.66</td> <td>42.75</td> <td>32.21</td> <td>6.57</td> <td>32.19</td> <td>6.00</td> <td>287</td> <td>0 PEAK</td> </tr> <tr> <td>2</td> <td>2367.20</td> <td>30.53</td> <td>54.00</td> <td>-23.47</td> <td>17.94</td> <td>32.21</td> <td>6.57</td> <td>32.19</td> <td>6.00</td> <td>287</td> <td>0 AVERAGE</td> </tr> </tbody> </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	dB	cm	deg	1	2367.20	55.34	74.00	-18.66	42.75	32.21	6.57	32.19	6.00	287	0 PEAK	2	2367.20	30.53	54.00	-23.47	17.94	32.21	6.57	32.19	6.00	287	0 AVERAGE	<table border="1"> <thead> <tr> <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> </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>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>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>106.58</td> <td>-----</td> <td>-----</td> <td>93.55</td> <td>32.59</td> <td>6.62</td> <td>32.18</td> <td>6.00</td> <td>287</td> <td>0 PEAK</td> </tr> <tr> <td>2</td> <td>2402.00</td> <td>81.77</td> <td>-----</td> <td>-----</td> <td>68.74</td> <td>32.59</td> <td>6.62</td> <td>32.18</td> <td>6.00</td> <td>287</td> <td>0 AVERAGE</td> </tr> </tbody> </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	dB	cm	deg	1	2402.00	106.58	-----	-----	93.55	32.59	6.62	32.18	6.00	287	0 PEAK	2	2402.00	81.77	-----	-----	68.74	32.59	6.62	32.18	6.00	287	0 AVERAGE
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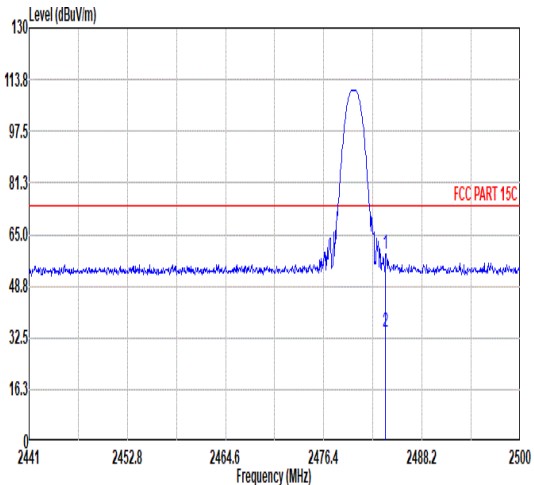
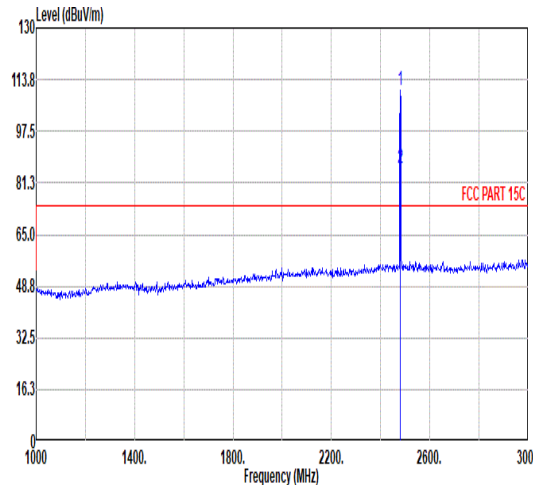


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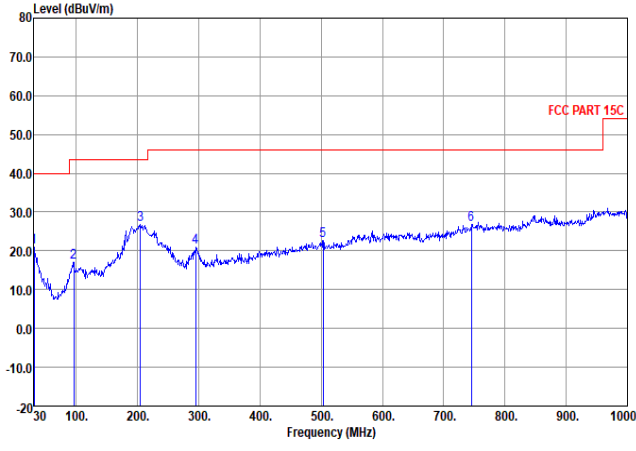
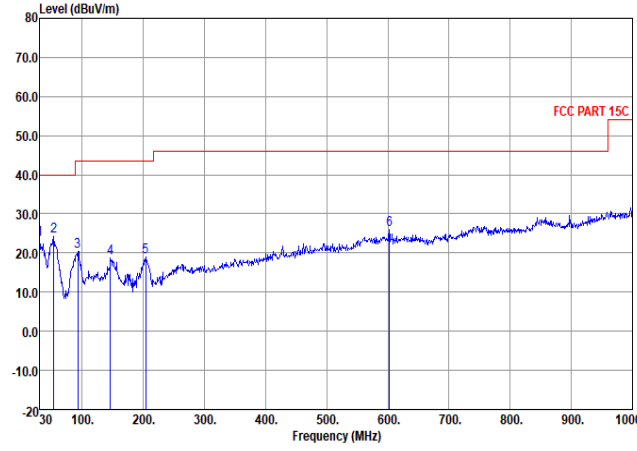


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Mode	3	
	18-25G	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	3	
Pol.	Horizontal	Vertical
Peak Avg	<p>The plot shows the average peak level in dBuV/m across the frequency range 18000 to 25000 MHz. The y-axis ranges from 0 to 130 dBuV/m. Two red horizontal lines indicate FCC Part 15C limits: one at 81.3 dBuV/m and another at 48.8 dBuV/m. The blue signal line fluctuates around 40-45 dBuV/m, well below the 48.8 dBuV/m limit.</p>	<p>The plot shows the average peak level in dBuV/m across the frequency range 18000 to 25000 MHz. The y-axis ranges from 0 to 130 dBuV/m. Two red horizontal lines indicate FCC Part 15C limits: one at 81.3 dBuV/m and another at 48.8 dBuV/m. The blue signal line fluctuates around 40-45 dBuV/m, well below the 48.8 dBuV/m limit.</p>

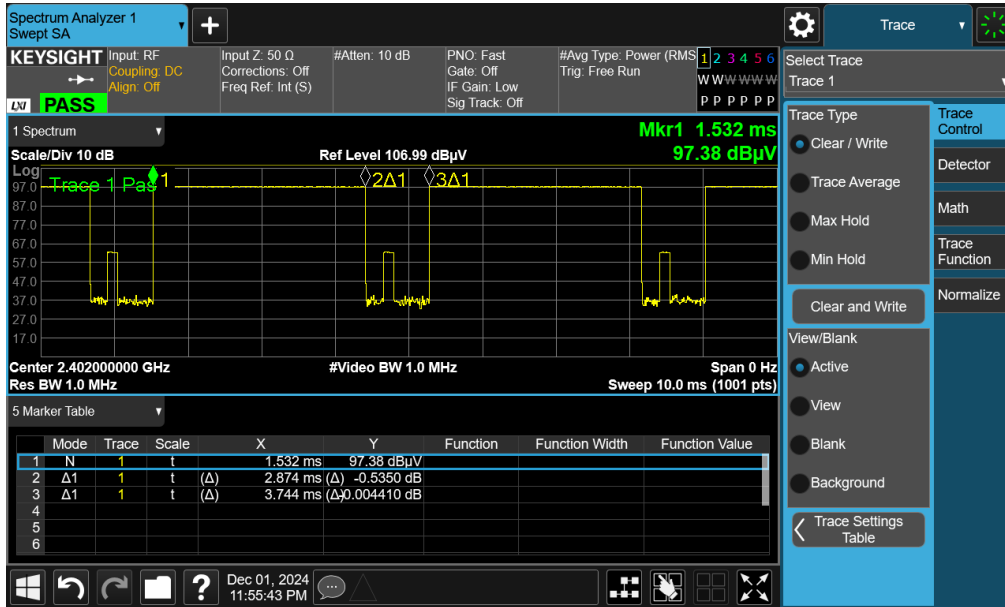


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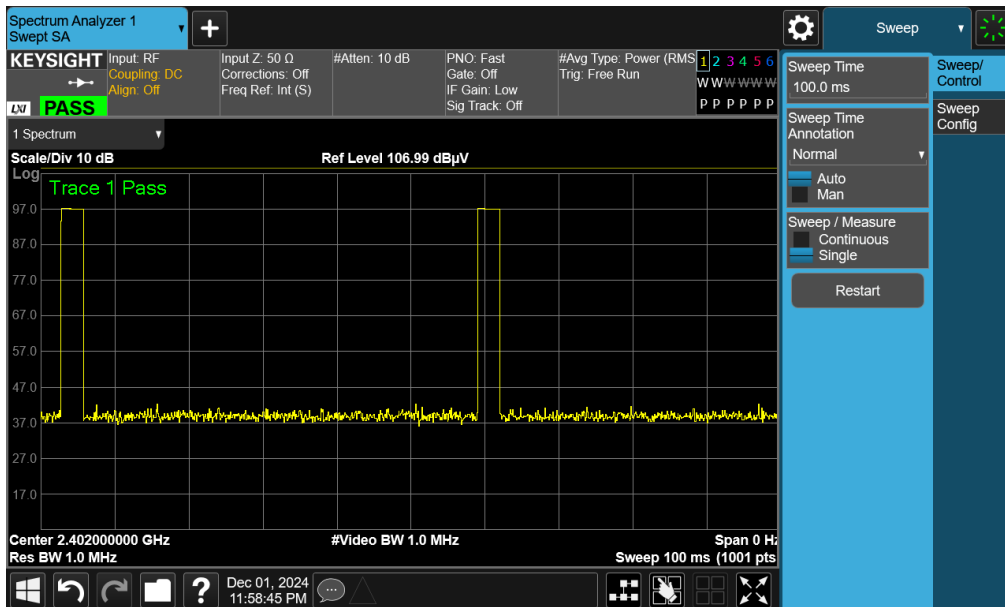
Appendix D. Duty Cycle Plots

Ant.3

DH5 on time (One Pulse) Plot on Channel 00



DH5 on time (Count Pulses) Plot on Channel 00



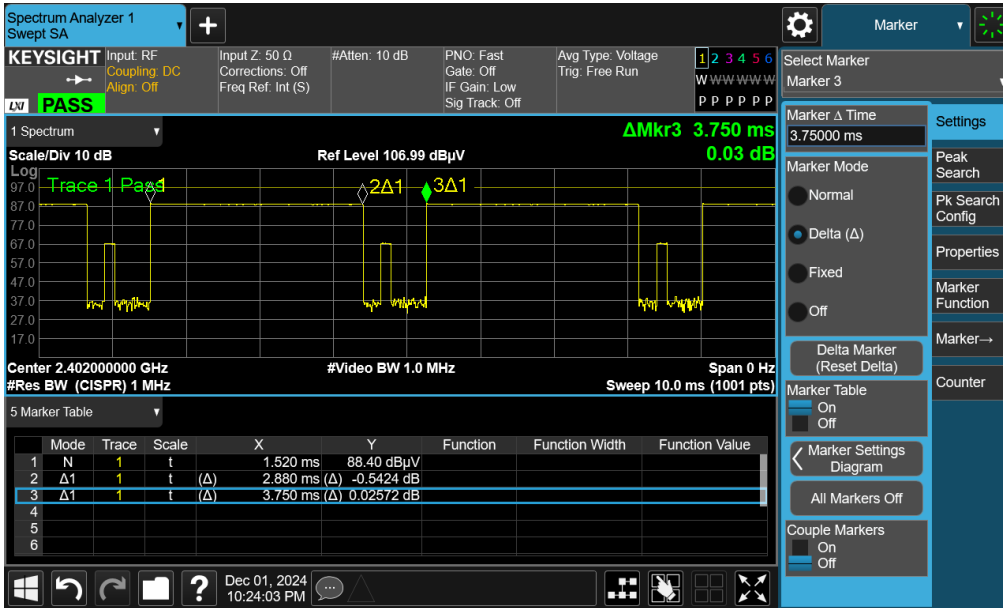
Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.874 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.81 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

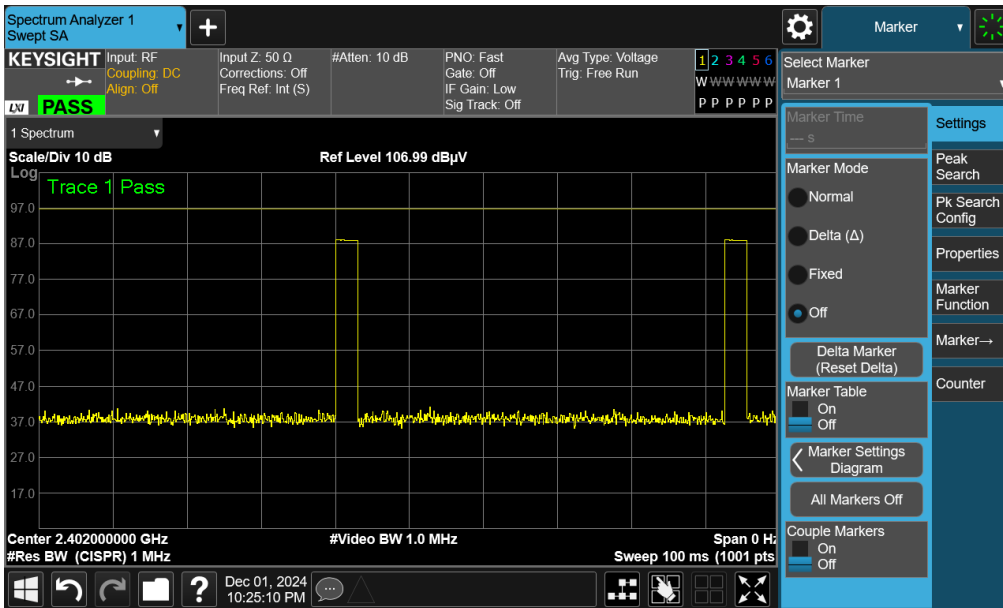


Ant.2

DH5 on time (One Pulse) Plot on Channel 00



DH5 on time (Count Pulses) Plot on Channel 00



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(Duty cycle) = -24.79 dB
3. DH5 has the highest duty cycle worst case and is reported.