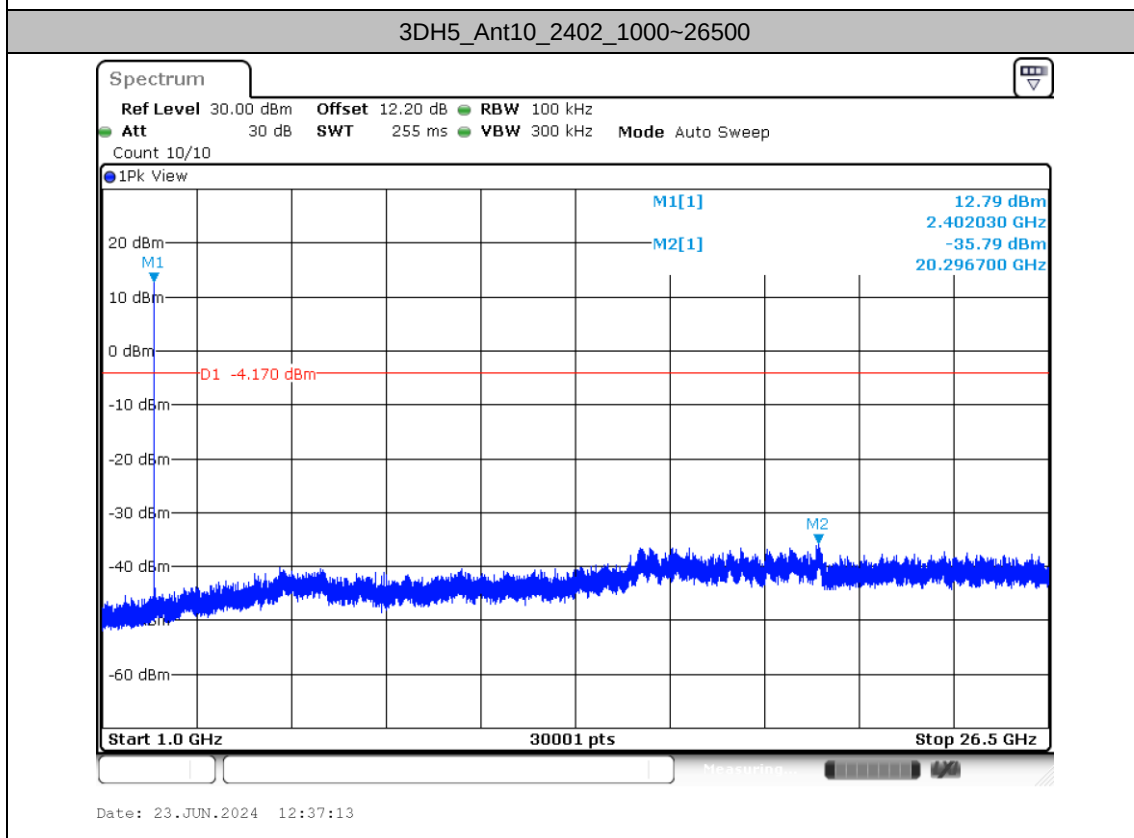
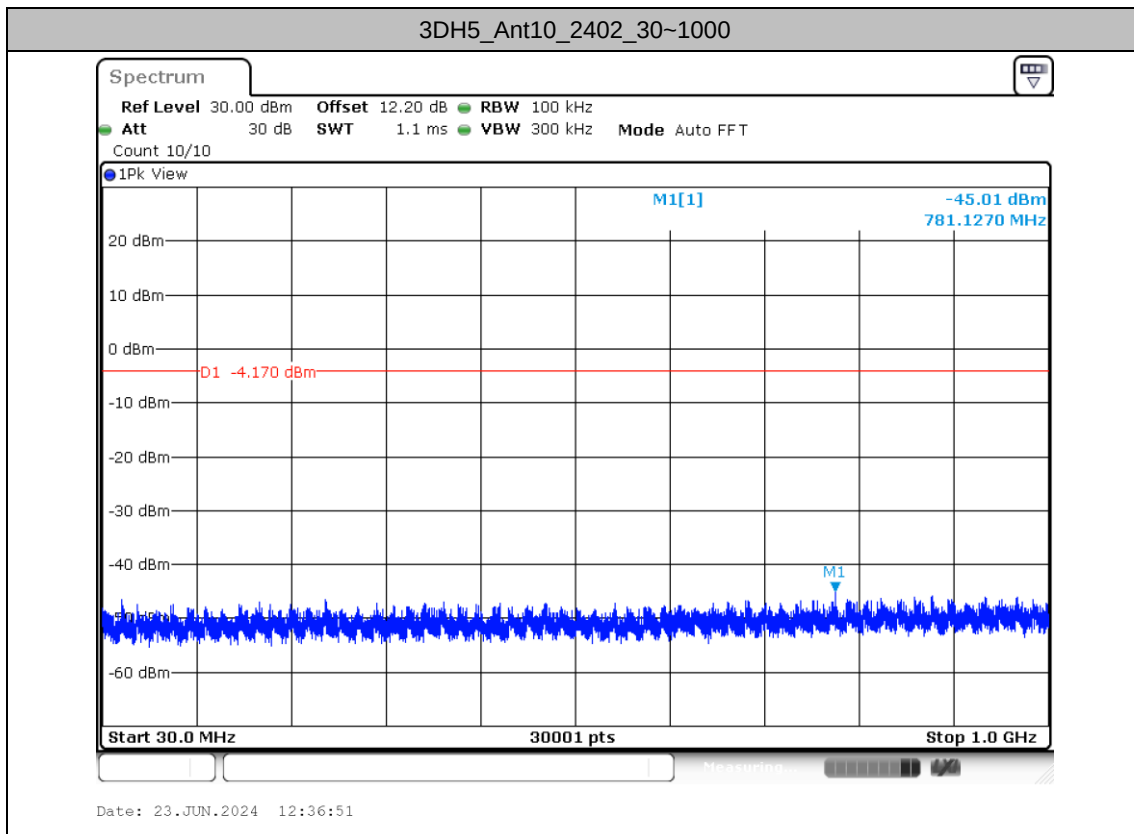
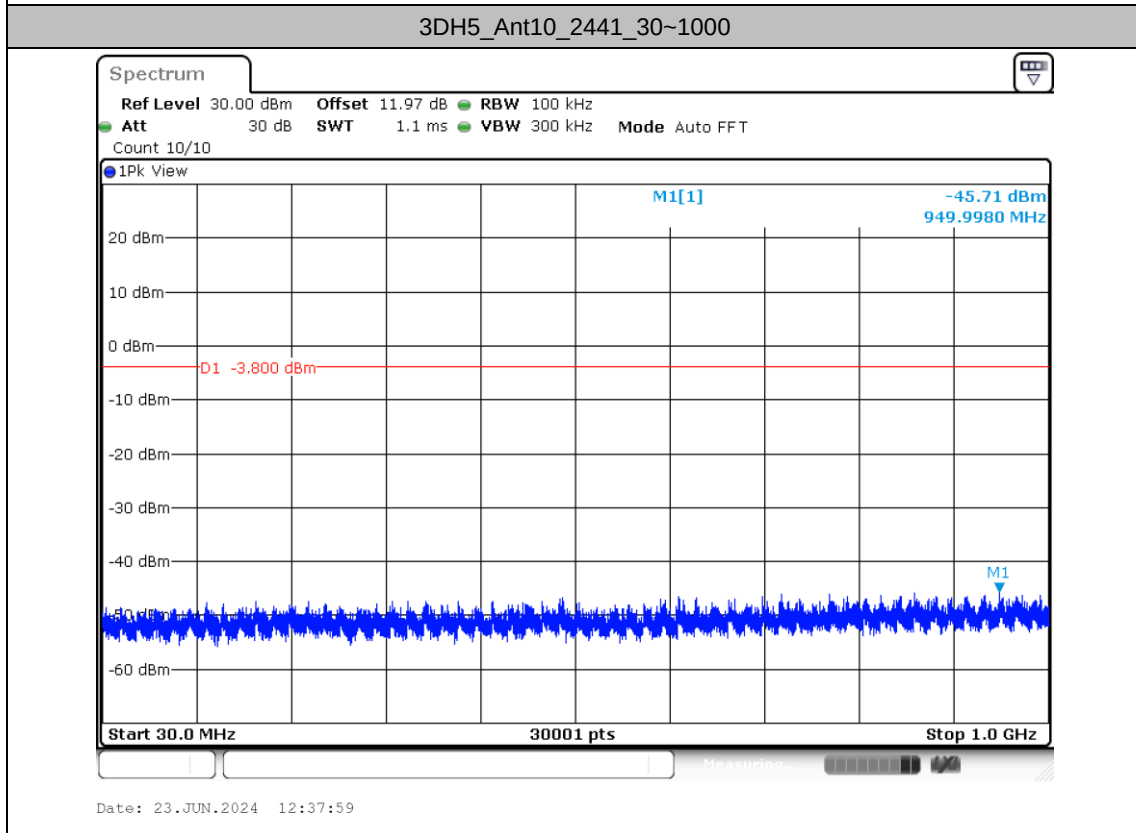
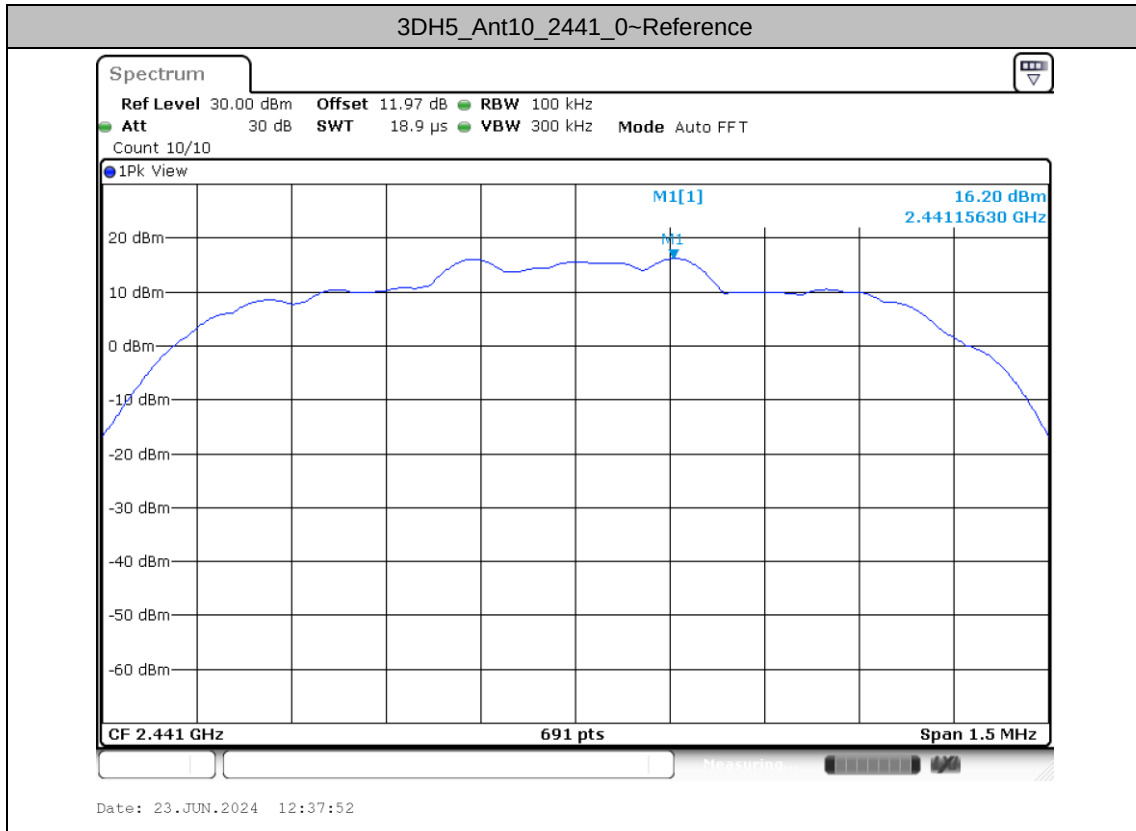
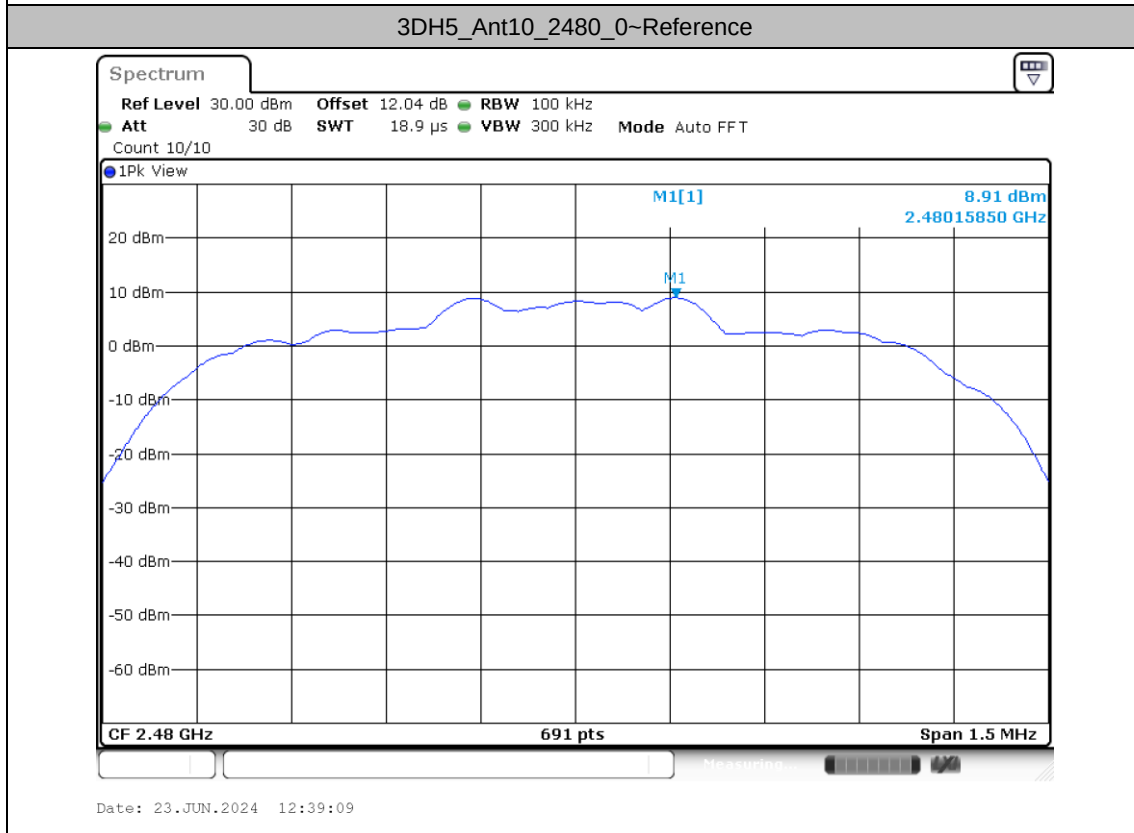
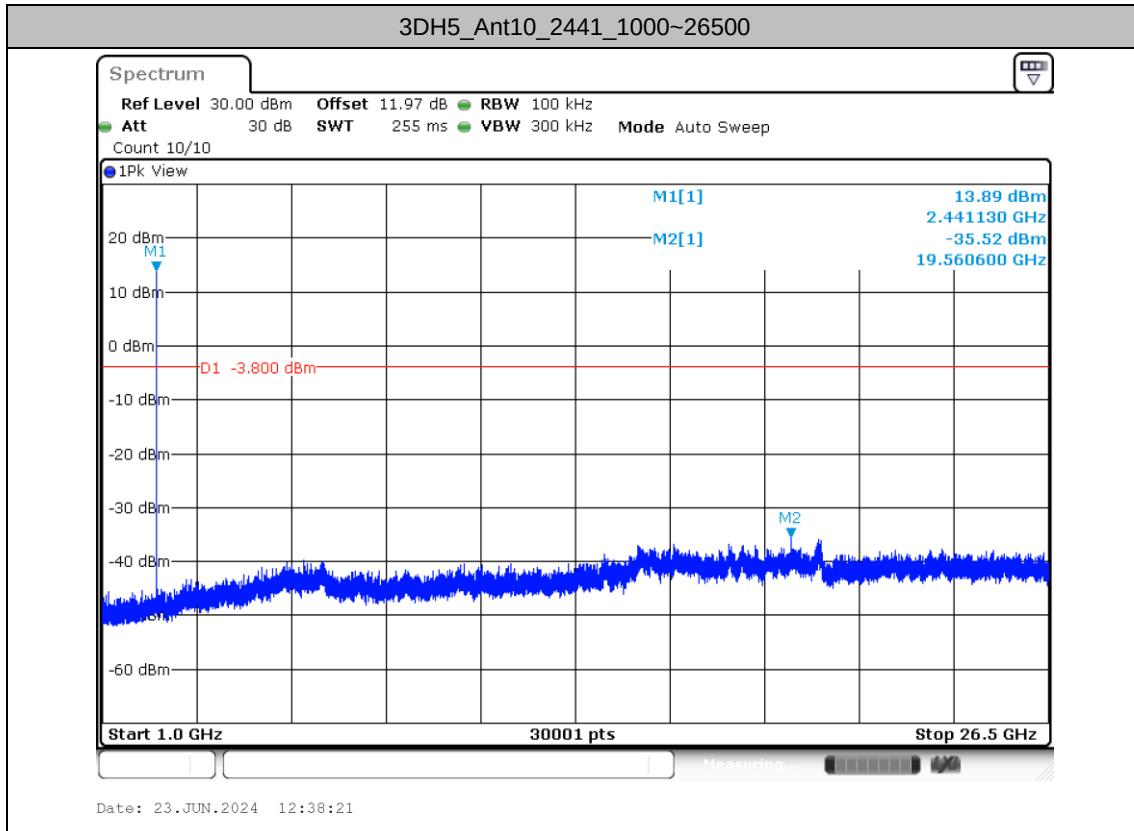
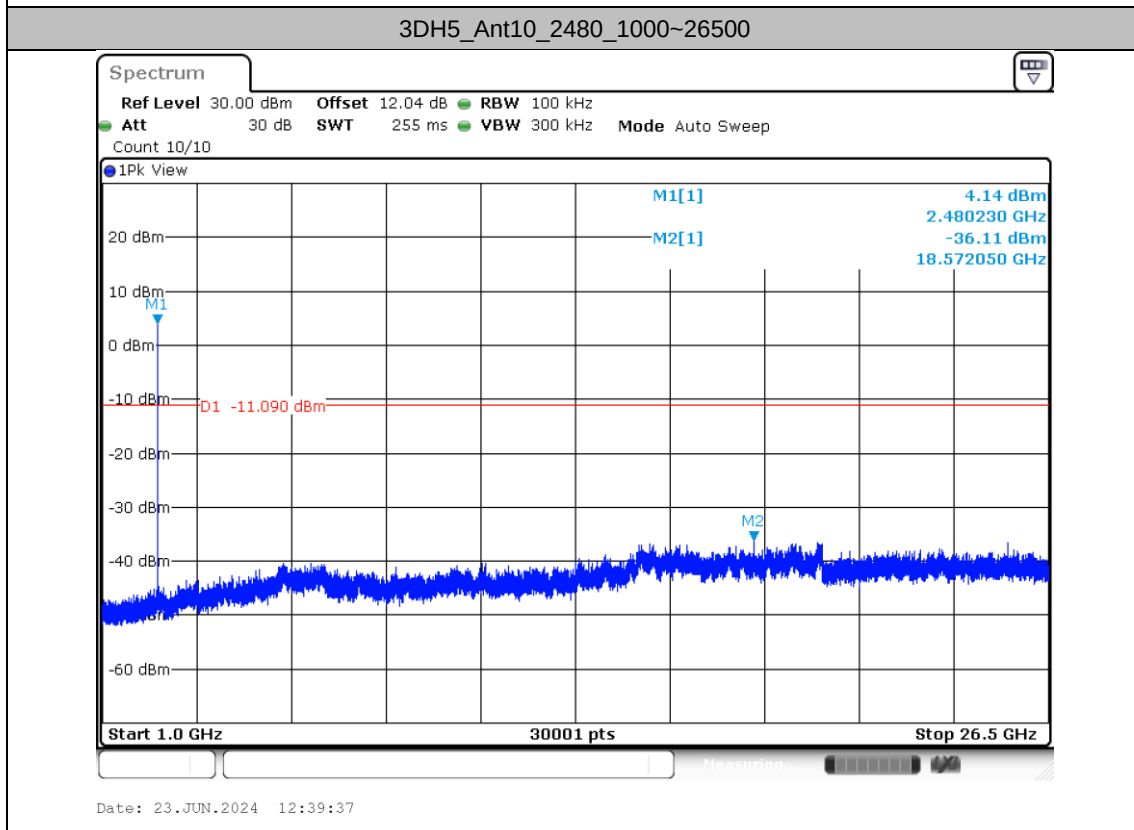
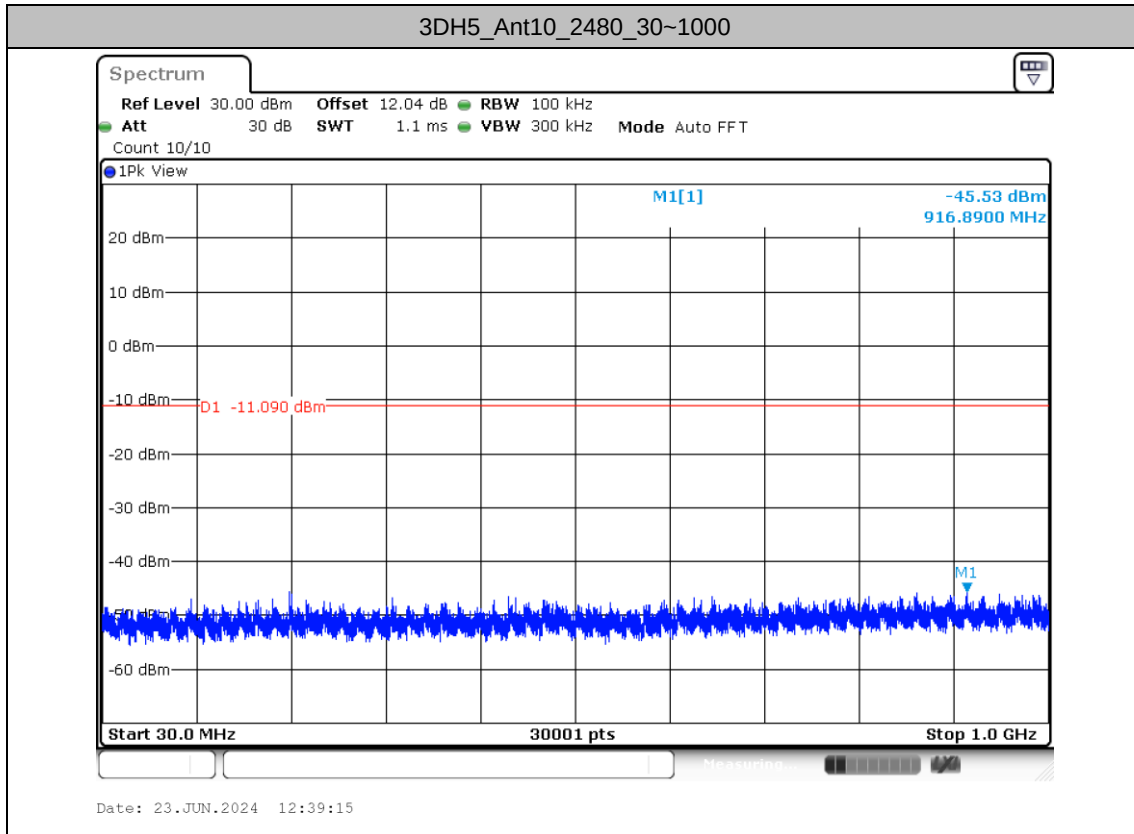






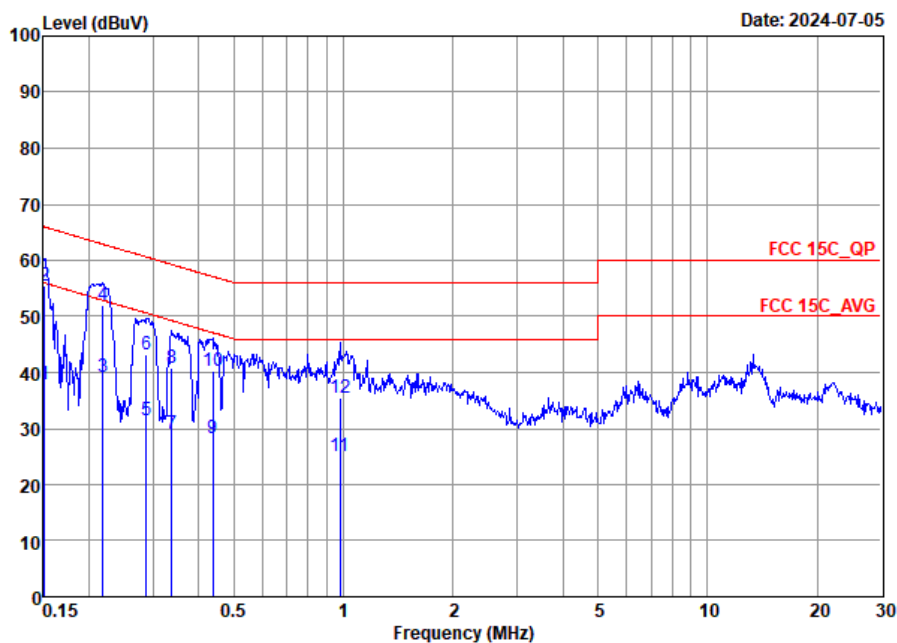






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Yuki Tang	Temperature :	22~24°C
		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.		

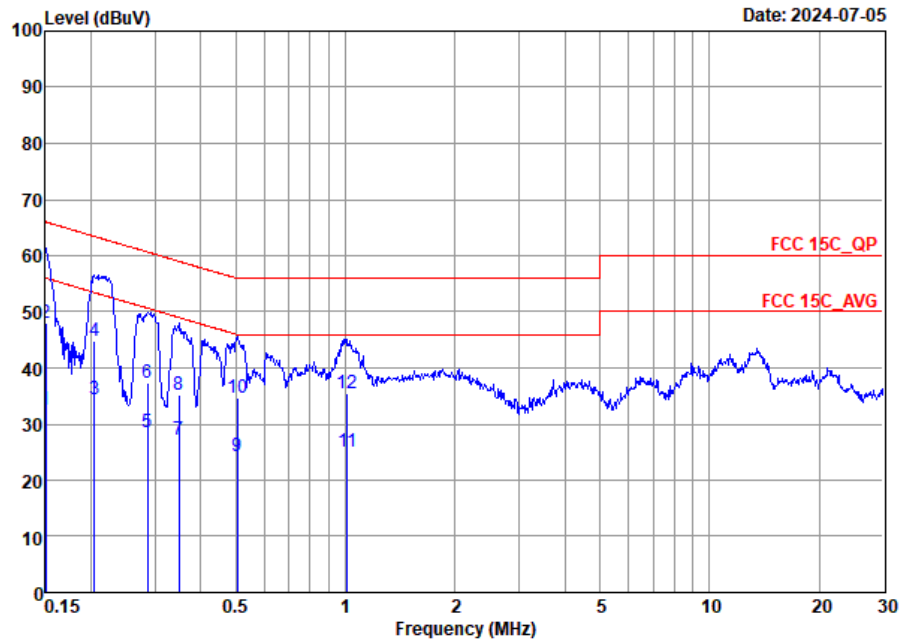


Site : CO01-SZ
Condition: FCC 15C_QP AC LISN 100063_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	37.92	-18.04	55.96	17.41	10.38	10.13	Average
2 *	0.15	55.52	-10.44	65.96	35.01	10.38	10.13	QP
3	0.22	39.10	-13.78	52.88	18.61	10.34	10.15	Average
4	0.22	52.00	-10.88	62.88	31.51	10.34	10.15	QP
5	0.29	31.41	-19.18	50.59	11.20	10.06	10.15	Average
6	0.29	43.11	-17.48	60.59	22.90	10.06	10.15	QP
7	0.34	29.14	-20.13	49.27	8.80	10.18	10.16	Average
8	0.34	40.84	-18.43	59.27	20.50	10.18	10.16	QP
9	0.44	28.33	-18.78	47.11	7.80	10.37	10.16	Average
10	0.44	40.23	-16.88	57.11	19.70	10.37	10.16	QP
11	0.98	25.04	-20.96	46.00	4.60	10.28	10.16	Average
12	0.98	35.44	-20.56	56.00	15.00	10.28	10.16	QP



Test Engineer :	Yuki Tang	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 : CO01-SZ
Condition: FCC 15C_QP AC LISN 100063_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	32.66	-23.34	56.00	12.40	10.13	10.13	Average
2 *	0.15	47.96	-18.04	66.00	27.70	10.13	10.13	QP
3	0.20	34.51	-18.94	53.45	14.10	10.26	10.15	Average
4	0.20	44.71	-18.74	63.45	24.30	10.26	10.15	QP
5	0.29	28.65	-21.98	50.63	8.10	10.40	10.15	Average
6	0.29	37.25	-23.38	60.63	16.70	10.40	10.15	QP
7	0.35	27.19	-21.81	49.00	6.69	10.34	10.16	Average
8	0.35	35.19	-23.81	59.00	14.69	10.34	10.16	QP
9	0.50	24.29	-21.71	46.00	4.00	10.13	10.16	Average
10	0.50	34.79	-21.21	56.00	14.50	10.13	10.16	QP
11	1.01	25.18	-20.82	46.00	4.80	10.22	10.16	Average
12	1.01	35.38	-20.62	56.00	15.00	10.22	10.16	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 Data

Test Engineer :	HuaCong Liang	Relative Humidity :	50%
		Temperature :	20-12℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	10	Bluetooth BR_GFSK	00	2402	DH5	-	-
Mode 2	2400-2483.5	10	Bluetooth BR_GFSK	39	2441	DH5	-	-
Mode 3	2400-2483.5	10	Bluetooth BR_GFSK	78	2480	DH5	-	-
Mode 4	2400-2483.5	10	Bluetooth BR_GFSK	78	2480	DH5	-	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	2353.05	49.13	74.00	-24.87	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	56.55	74.00	-17.45	H	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	4882.00	57.06	74.00	-16.94	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2485.07	53.23	74.00	-20.77	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	4960.00	57.30	74.00	-16.70	H	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	78	288.99	-30.5	46	-15.5	H	Peak	Pass	LF



Mode	1																																																																	
	Band Edge																																																																	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																	
ANT	10																																																																	
Pol.	Horizontal																																																																	
Peak	Level (dBuV/m) Date: 2024-07-01 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></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>2353.05</td><td>49.13</td><td>74.00</td><td>-24.87</td><td>41.36</td><td>32.18</td><td>7.66</td><td>32.07</td><td>357</td><td>24</td><td>PEAK</td></tr><tr><td>2</td><td>2353.05</td><td>24.34</td><td>54.00</td><td>-29.66</td><td>16.57</td><td>32.18</td><td>7.66</td><td>32.07</td><td>357</td><td>24</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	2353.05	49.13	74.00	-24.87	41.36	32.18	7.66	32.07	357	24	PEAK	2	2353.05	24.34	54.00	-29.66	16.57	32.18	7.66	32.07	357	24	AVERAGE
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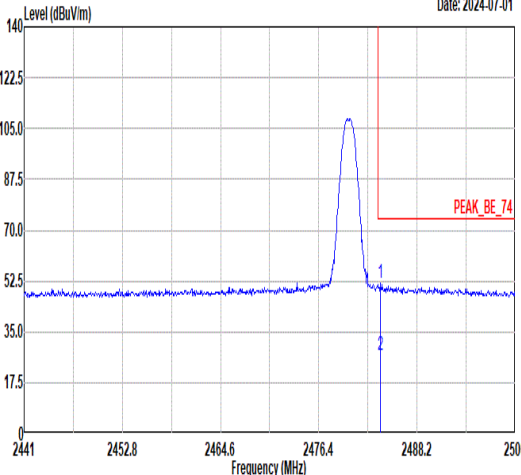
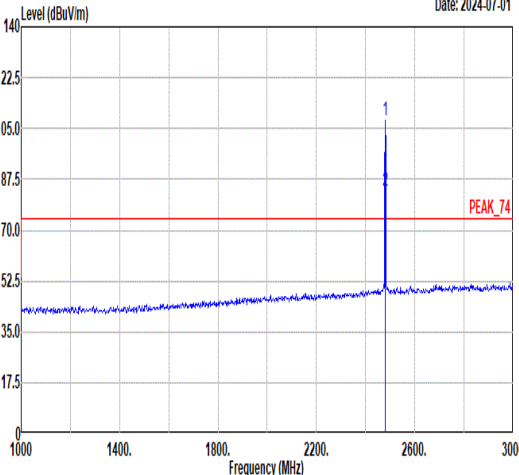


Mode	2																																																																																																																							
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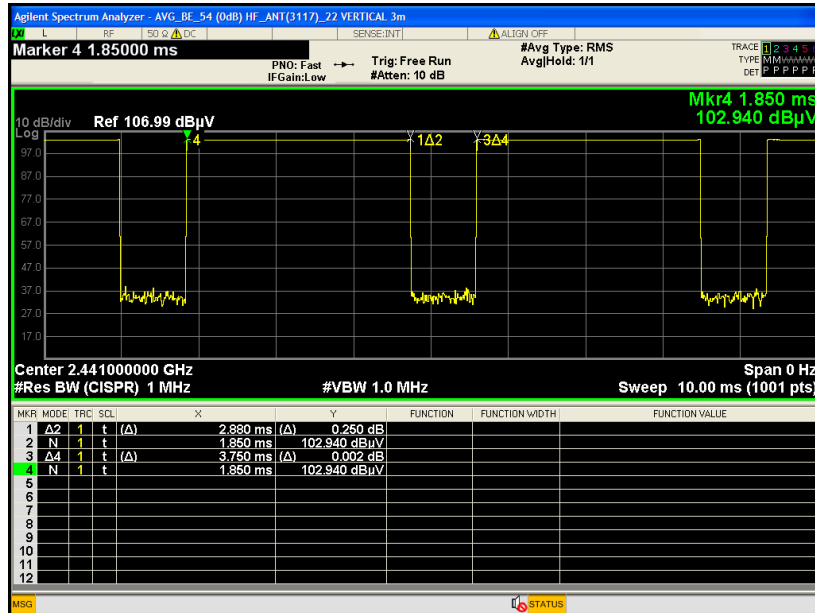
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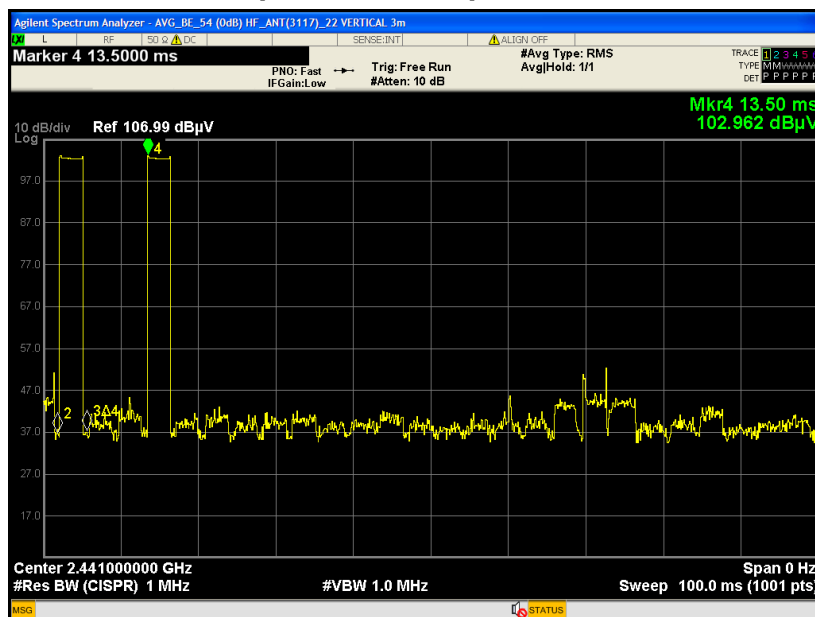
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	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th><th></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><th></th></tr><tr><td>1</td><td>62.01</td><td>17.20</td><td>40.00</td><td>-22.80</td><td>36.44</td><td>19.29</td><td>1.44</td><td>39.97</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>160.95</td><td>22.43</td><td>43.50</td><td>-21.07</td><td>40.82</td><td>19.32</td><td>2.31</td><td>40.02</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>191.99</td><td>25.51</td><td>43.50</td><td>-17.99</td><td>46.26</td><td>16.73</td><td>2.52</td><td>40.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>219.15</td><td>28.10</td><td>46.00</td><td>-17.90</td><td>48.35</td><td>17.05</td><td>2.68</td><td>39.98</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>288.99</td><td>30.50</td><td>46.00</td><td>-15.50</td><td>47.85</td><td>19.54</td><td>3.06</td><td>39.95</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>808.91</td><td>29.53</td><td>46.00</td><td>-16.47</td><td>35.59</td><td>28.29</td><td>5.11</td><td>39.46</td><td>--</td><td>--</td><td>Peak</td></tr></table>								Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	62.01	17.20	40.00	-22.80	36.44	19.29	1.44	39.97	--	--	Peak	2	160.95	22.43	43.50	-21.07	40.82	19.32	2.31	40.02	--	--	Peak	3	191.99	25.51	43.50	-17.99	46.26	16.73	2.52	40.00	--	--	Peak	4	219.15	28.10	46.00	-17.90	48.35	17.05	2.68	39.98	--	--	Peak	5	288.99	30.50	46.00	-15.50	47.85	19.54	3.06	39.95	--	--	Peak	6	808.91	29.53	46.00	-16.47	35.59	28.29	5.11	39.46	--	--	Peak	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</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></th><th></th><th></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><th></th></tr><tr><td>1</td><td>40.67</td><td>24.30</td><td>40.00</td><td>-15.70</td><td>43.23</td><td>19.81</td><td>1.17</td><td>39.91</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>103.72</td><td>20.50</td><td>43.50</td><td>-23.00</td><td>43.22</td><td>15.49</td><td>1.86</td><td>40.07</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>161.92</td><td>23.95</td><td>43.50</td><td>-19.55</td><td>42.34</td><td>19.32</td><td>2.31</td><td>40.02</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>222.06</td><td>23.36</td><td>46.00</td><td>-22.64</td><td>43.45</td><td>17.19</td><td>2.70</td><td>39.98</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>267.65</td><td>23.90</td><td>46.00</td><td>-22.10</td><td>42.12</td><td>18.79</td><td>2.95</td><td>39.96</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>502.39</td><td>23.53</td><td>46.00</td><td>-22.47</td><td>35.31</td><td>23.88</td><td>4.04</td><td>39.70</td><td>--</td><td>--</td><td>Peak</td></tr></table>								Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	40.67	24.30	40.00	-15.70	43.23	19.81	1.17	39.91	--	--	Peak	2	103.72	20.50	43.50	-23.00	43.22	15.49	1.86	40.07	--	--	Peak	3	161.92	23.95	43.50	-19.55	42.34	19.32	2.31	40.02	--	--	Peak	4	222.06	23.36	46.00	-22.64	43.45	17.19	2.70	39.98	--	--	Peak	5	267.65	23.90	46.00	-22.10	42.12	18.79	2.95	39.96	--	--	Peak	6	502.39	23.53	46.00	-22.47	35.31	23.88	4.04	39.70	--	--	Peak
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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.