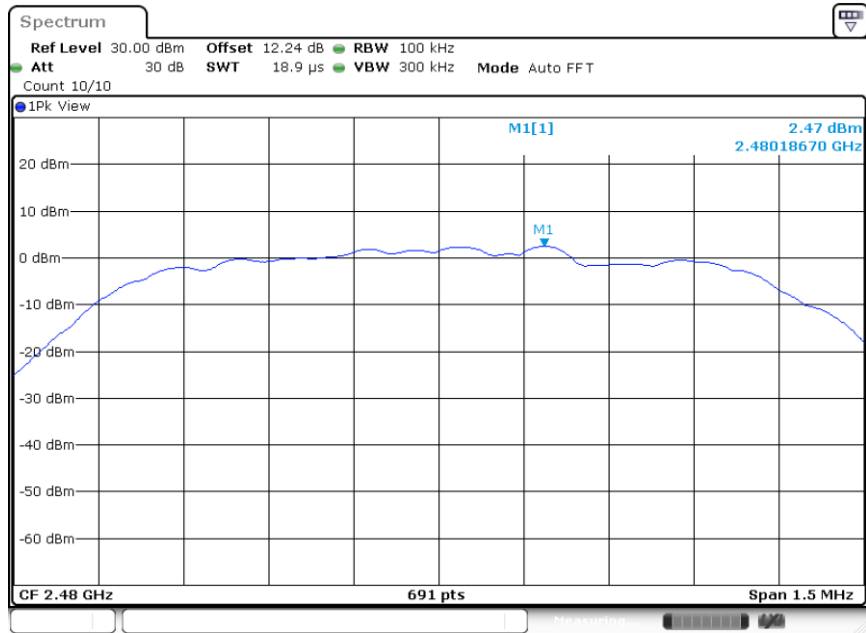


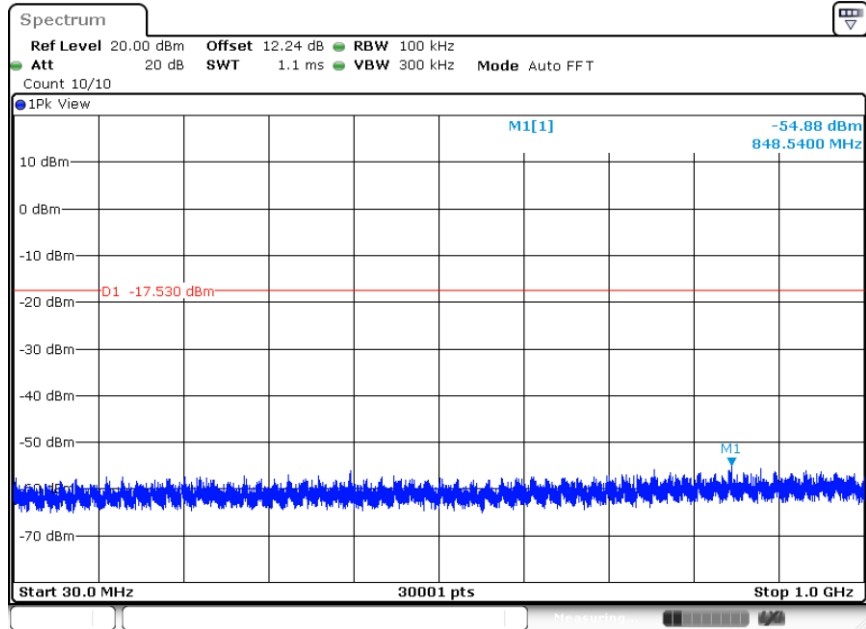


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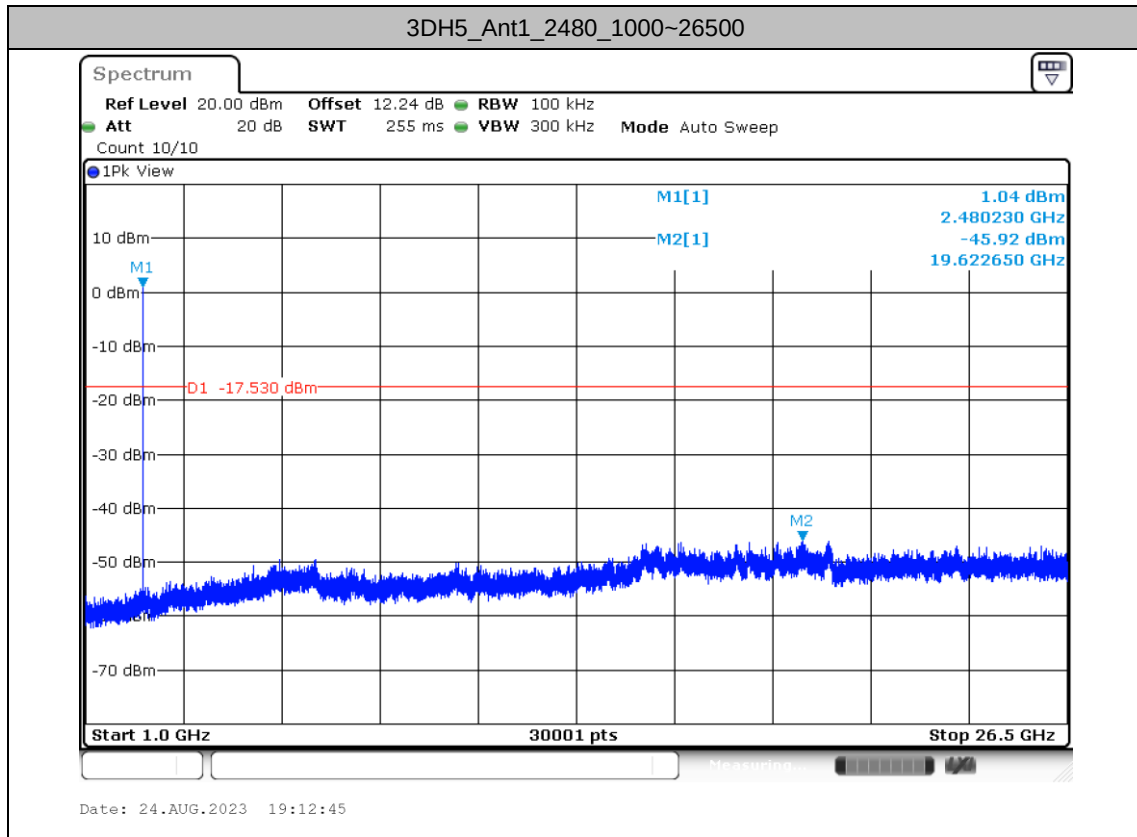


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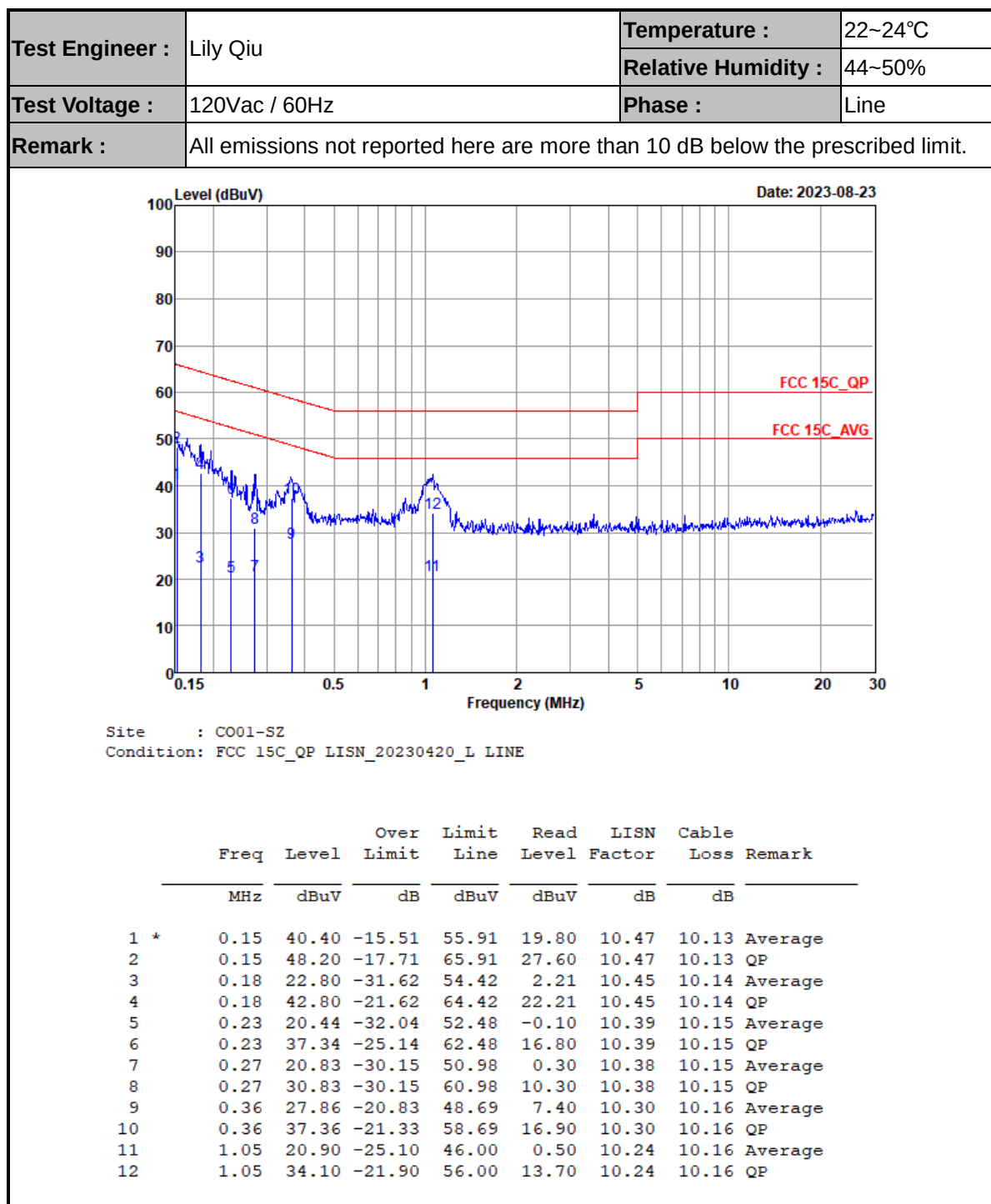


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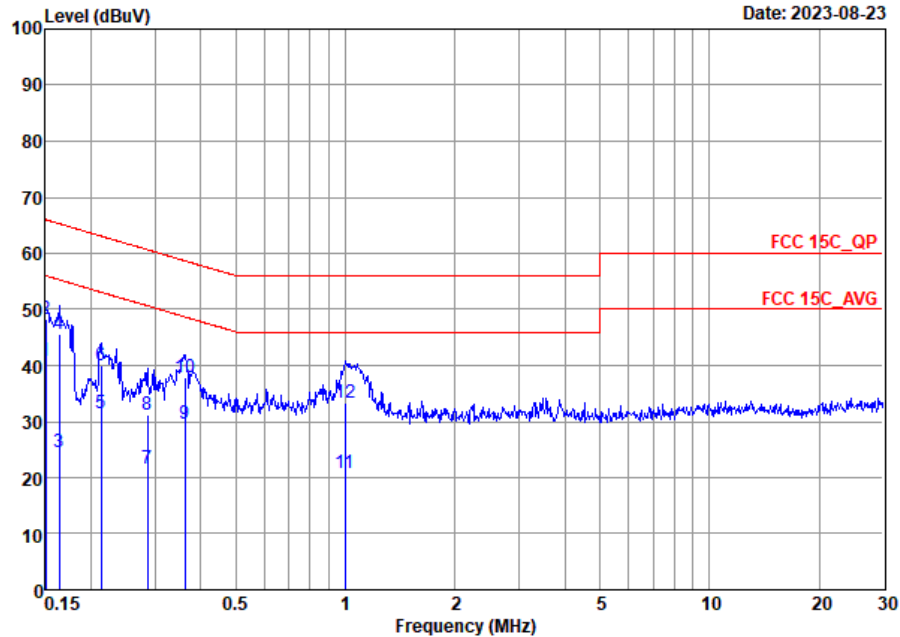


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Lily Qiu	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 LISN_20230420_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.15	40.69	-15.31	56.00	20.10	10.46	10.13	Average
2	0.15	48.19	-17.81	66.00	27.60	10.46	10.13	QP
3	0.16	24.58	-30.72	55.30	4.00	10.44	10.14	Average
4	0.16	45.68	-19.62	65.30	25.10	10.44	10.14	QP
5	0.21	31.59	-21.51	53.10	11.10	10.34	10.15	Average
6	0.21	39.89	-23.21	63.10	19.40	10.34	10.15	QP
7	0.29	21.57	-29.06	50.63	1.11	10.31	10.15	Average
8	0.29	31.27	-29.36	60.63	10.81	10.31	10.15	QP
9	0.36	29.51	-19.18	48.69	9.10	10.25	10.16	Average
10	0.36	37.91	-20.78	58.69	17.50	10.25	10.16	QP
11	1.00	20.70	-25.30	46.00	0.30	10.24	10.16	Average
12	1.00	33.40	-22.60	56.00	13.00	10.24	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 :	Reid Huang	Relative Humidity :	48~49%
		Temperature :	24~25°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	SISO	Bluetooth BR_GFSK	00	2402	1DH5	-
Mode 2	2400-2483.5	SISO	Bluetooth BR_GFSK	39	2441	1DH5	-
Mode 3	2400-2483.5	SISO	Bluetooth BR_GFSK	78	2480	1DH5	-
Mode 4	2400-2483.5	SISO	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	2386.73	45.37	74.00	-28.63	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	41.74	74.00	-32.26	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	49.04	74.00	-24.96	V	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.78	50.28	74.00	-23.72	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	49.38	74.00	-24.62	V	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	78	32.91	32.45	40	-7.55	V	Peak -	Pass -	LF

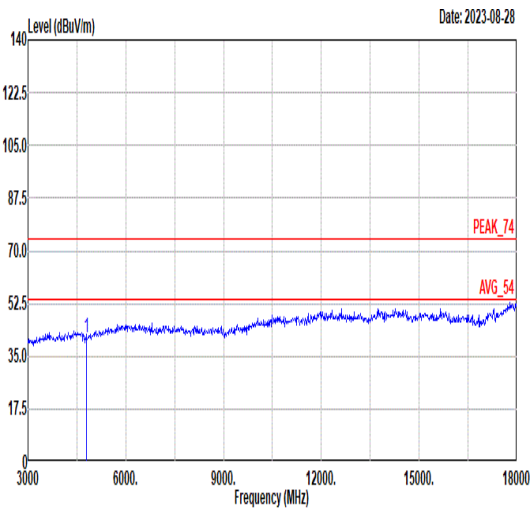
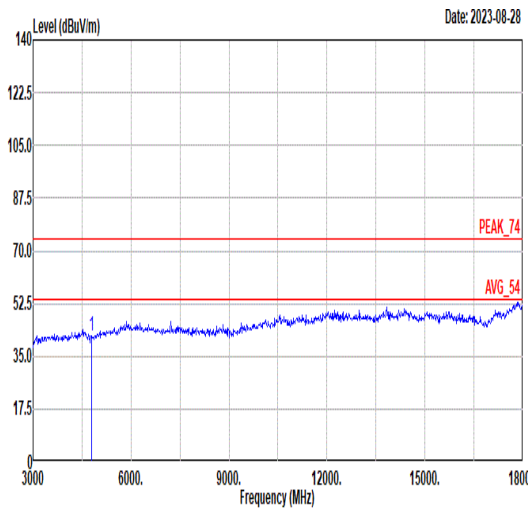


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ANT	SISO																																																																																																													
Pol.	Horizontal	Fundamental																																																																																																												
Peak	Level (dBuV/m) Date: 2023-08-28 Frequency (MHz) <table><tr><th colspan="2"></th><th colspan="2">Limit</th><th>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></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><th></th></tr><tr><td>1</td><td>2386.73</td><td>45.37</td><td>74.00</td><td>-28.63</td><td>42.04</td><td>32.21</td><td>4.79</td><td>33.67</td><td>100</td><td>249 PEAK</td></tr><tr><td>2</td><td>2386.73</td><td>20.58</td><td>54.00</td><td>-33.42</td><td>17.25</td><td>32.21</td><td>4.79</td><td>33.67</td><td>100</td><td>249 AVERAGE</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	cm	deg		1	2386.73	45.37	74.00	-28.63	42.04	32.21	4.79	33.67	100	249 PEAK	2	2386.73	20.58	54.00	-33.42	17.25	32.21	4.79	33.67	100	249 AVERAGE	Level (dBuV/m) Date: 2023-08-28 Frequency (MHz) <table><tr><th colspan="2"></th><th colspan="2">Limit</th><th>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></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><th></th></tr><tr><td>1</td><td>2402.00</td><td>99.75</td><td>-----</td><td>96.35</td><td>32.25</td><td>4.81</td><td>33.66</td><td>100</td><td>249</td><td>Peak</td></tr><tr><td>2</td><td>2402.00</td><td>74.96</td><td>54.00</td><td>20.96</td><td>71.56</td><td>32.25</td><td>4.81</td><td>33.66</td><td>100</td><td>AVERAGE</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	cm	deg		1	2402.00	99.75	-----	96.35	32.25	4.81	33.66	100	249	Peak	2	2402.00	74.96	54.00	20.96	71.56	32.25	4.81	33.66	100	AVERAGE
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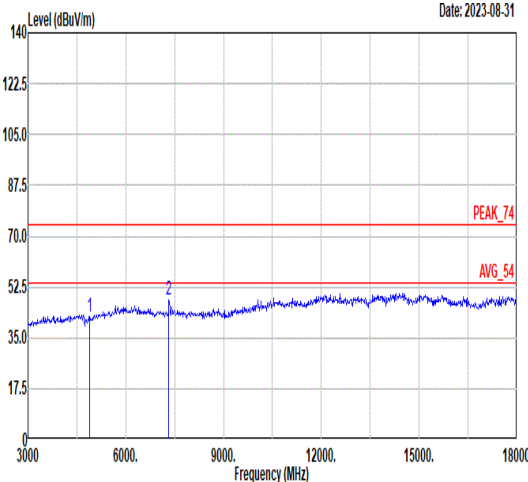
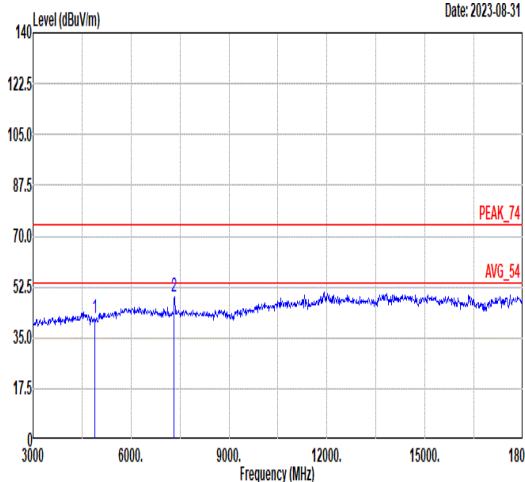


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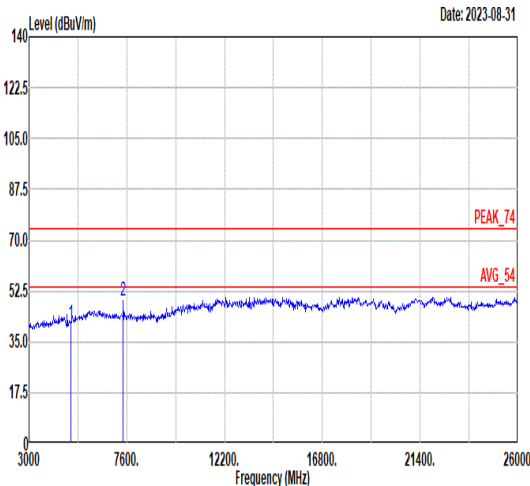
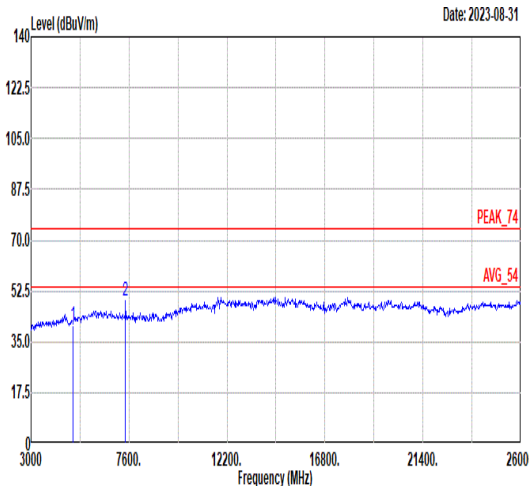


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Pol.	Vertical	Fundamental																																																																																																																
Peak	Level (dBuV/m) Date: 2023-08-28 Frequency (MHz) <table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th rowspan="3">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></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>2483.78</td><td>50.28</td><td>74.00</td><td>-23.72</td><td>46.51</td><td>32.46</td><td>4.92</td><td>33.61</td><td>104</td><td>115</td><td>PEAK</td></tr><tr><td>2</td><td>2483.78</td><td>25.49</td><td>54.00</td><td>-28.51</td><td>21.72</td><td>32.46</td><td>4.92</td><td>33.61</td><td>104</td><td>115</td><td>AVERAGE</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	cm	deg	1	2483.78	50.28	74.00	-23.72	46.51	32.46	4.92	33.61	104	115	PEAK	2	2483.78	25.49	54.00	-28.51	21.72	32.46	4.92	33.61	104	115	AVERAGE	Level (dBuV/m) Date: 2023-08-28 Frequency (MHz) <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="3">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></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>2480.00</td><td>98.50</td><td>-----</td><td>-----</td><td>94.74</td><td>32.45</td><td>4.92</td><td>33.61</td><td>104</td><td>115</td><td>Peak</td></tr><tr><td>2</td><td>2480.00</td><td>73.71</td><td>54.00</td><td>19.71</td><td>69.95</td><td>32.45</td><td>4.92</td><td>33.61</td><td>104</td><td>115</td><td>AVERAGE</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	cm	deg	1	2480.00	98.50	-----	-----	94.74	32.45	4.92	33.61	104	115	Peak	2	2480.00	73.71	54.00	19.71	69.95	32.45	4.92	33.61	104	115	AVERAGE
			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																																						
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1	2483.78	50.28	74.00	-23.72	46.51	32.46	4.92	33.61	104	115	PEAK																																																																																																							
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			Limit		Read		Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																						
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1	4960.00	40.87	74.00	-33.13	56.32	34.32	7.81	57.58	--	--	Peak																																																																																																																							
2	7440.00	49.38	74.00	-24.62	63.23	35.94	9.19	58.98	--	--	Peak																																																																																																																							



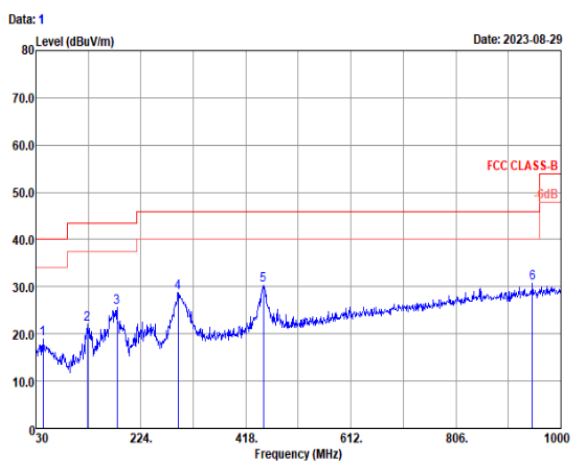
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LF

2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz

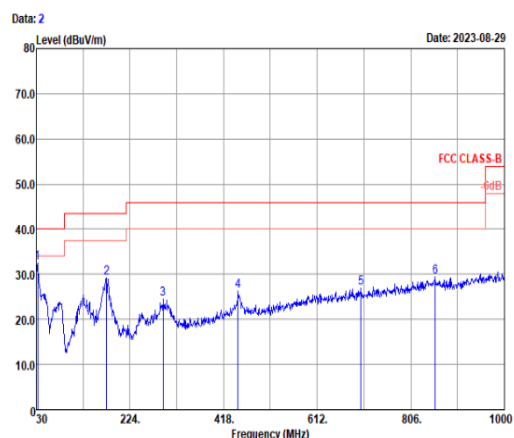
SISO

Horizontal



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	43.58	18.99	-21.01	40.00	32.84	19.54	1.55	34.94	---	Peak
2	125.06	21.99	-21.51	43.50	37.62	16.94	2.18	34.75	---	Peak
3	180.35	25.56	-17.94	43.50	40.00	17.16	2.50	34.70	---	Peak
4	292.87	28.67	-17.33	46.00	41.19	18.91	3.18	34.61	---	Peak
5	450.01	30.27	-15.73	46.00	38.55	22.75	3.47	34.50	---	Peak
6	947.62	30.84	-15.16	46.00	30.91	29.72	4.51	34.30	---	Peak

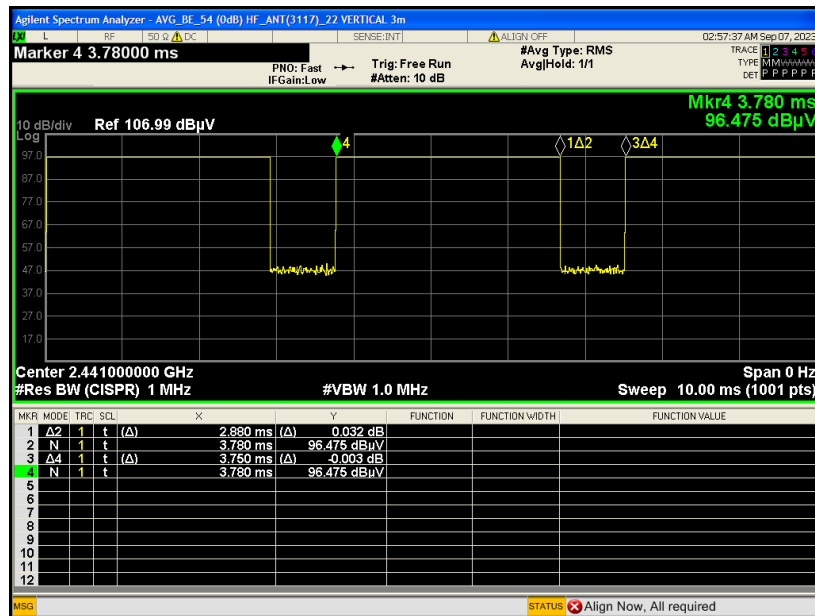
Vertical



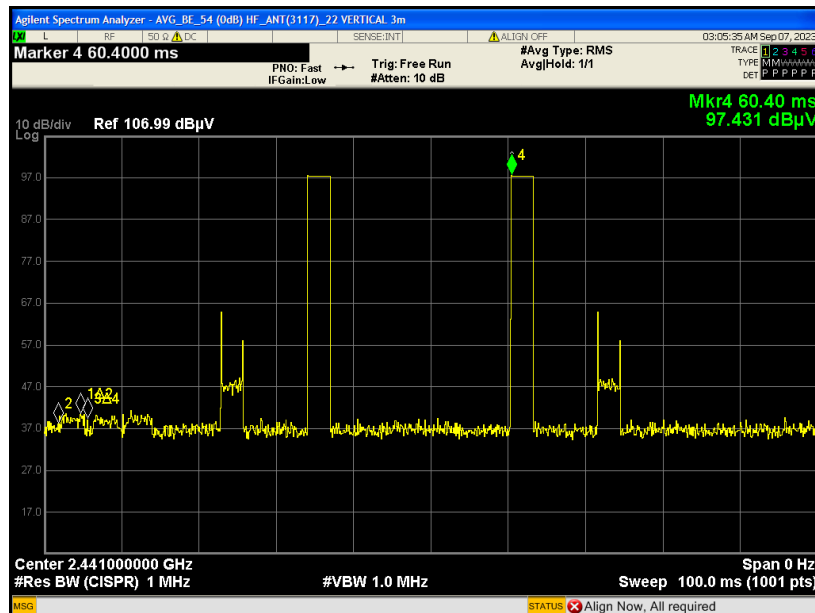
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.91	32.45	-7.55	40.00	47.72	18.23	1.26	34.76	---	Peak
2	175.50	29.26	-14.24	43.50	44.03	17.46	2.47	34.70	---	Peak
3	292.87	24.57	-21.43	46.00	37.09	18.91	3.18	34.61	---	Peak
4	448.07	26.25	-19.75	46.00	34.59	22.70	3.46	34.50	---	Peak
5	703.18	26.99	-19.01	46.00	30.52	27.13	3.74	34.40	---	Peak
6	856.44	29.46	-16.54	46.00	30.59	28.78	4.39	34.30	---	Peak

Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot



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 = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.