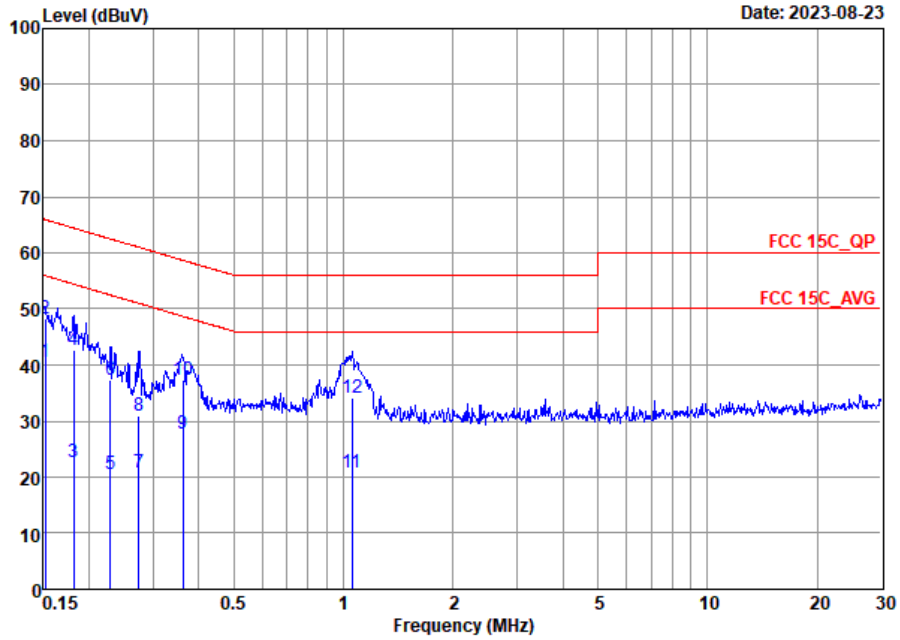




## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Lily Qiu	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.		

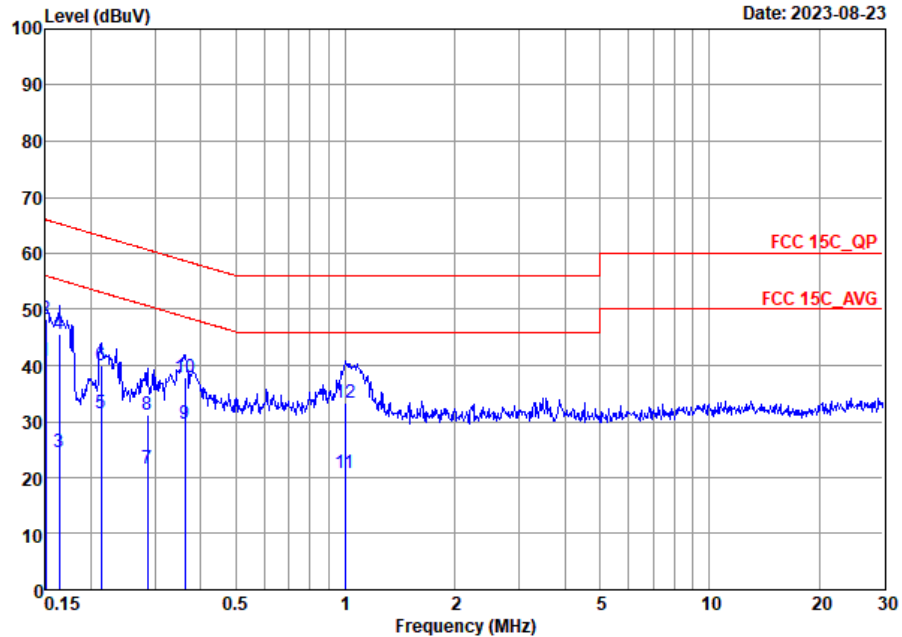


Site : CO01-SZ  
 Condition: FCC 15C\_QP LISN\_20230420\_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.15	40.40	-15.51	55.91	19.80	10.47	10.13	Average
2	0.15	48.20	-17.71	65.91	27.60	10.47	10.13	QP
3	0.18	22.80	-31.62	54.42	2.21	10.45	10.14	Average
4	0.18	42.80	-21.62	64.42	22.21	10.45	10.14	QP
5	0.23	20.44	-32.04	52.48	-0.10	10.39	10.15	Average
6	0.23	37.34	-25.14	62.48	16.80	10.39	10.15	QP
7	0.27	20.83	-30.15	50.98	0.30	10.38	10.15	Average
8	0.27	30.83	-30.15	60.98	10.30	10.38	10.15	QP
9	0.36	27.86	-20.83	48.69	7.40	10.30	10.16	Average
10	0.36	37.36	-21.33	58.69	16.90	10.30	10.16	QP
11	1.05	20.90	-25.10	46.00	0.50	10.24	10.16	Average
12	1.05	34.10	-21.90	56.00	13.70	10.24	10.16	QP



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	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	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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	Band Edge																																																																																																
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																
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2	7323.00	47.98	74.00	-26.02	61.90	36.04	8.97	58.93	--	--	Peak																																																																																							
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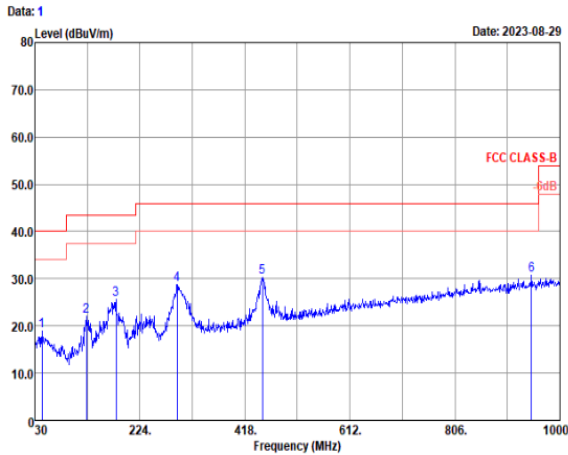
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2400-2483.5\_Bluetooth BR\_GFSK\_CH78\_2480MHz

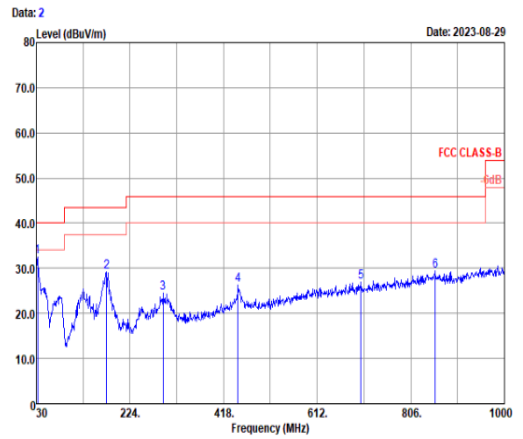
SISO

Horizontal

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	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

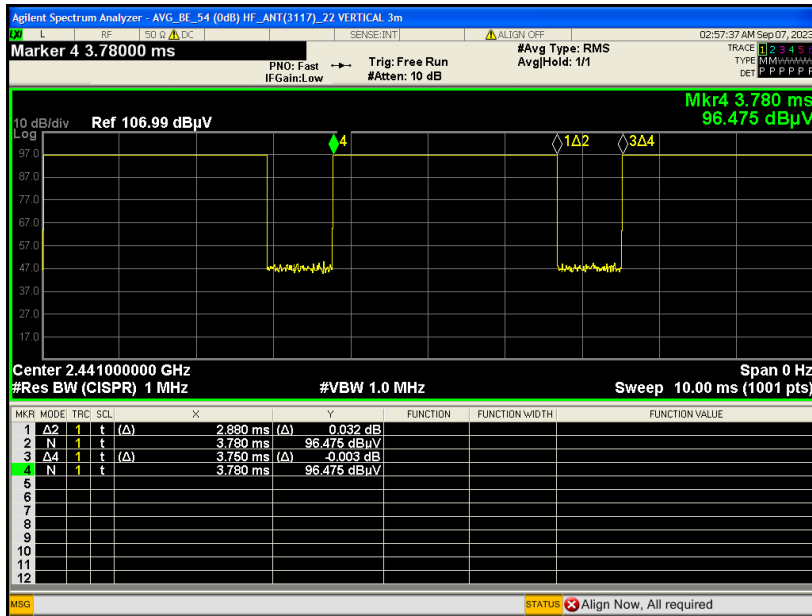


	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.91	32.45	-7.55	40.00	47.72	18.23	1.26	34.76	---	---	Peak
2	175.50	29.26	-14.24	43.50	44.03	17.46	2.47	34.70	---	---	Peak
3	292.87	24.57	-21.43	46.00	37.09	18.91	3.18	34.61	---	---	Peak
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

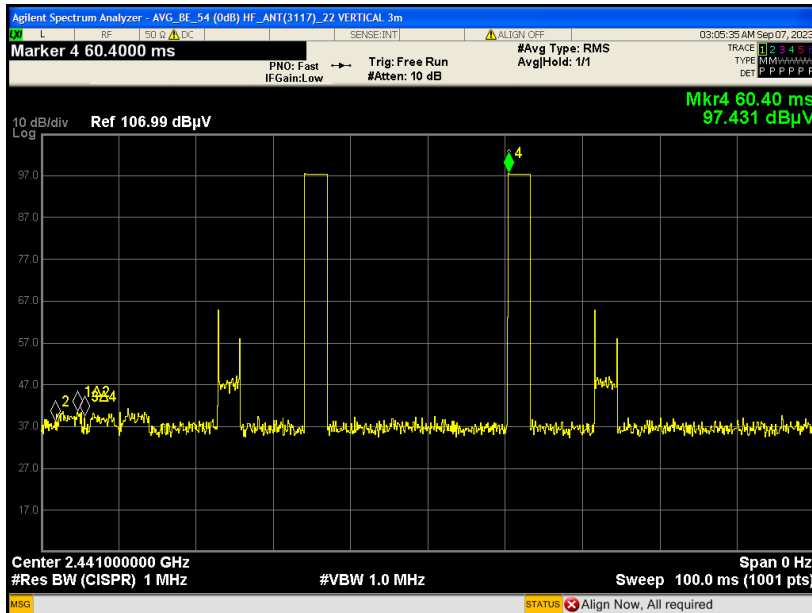


# Appendix D. Duty Cycle Plots

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