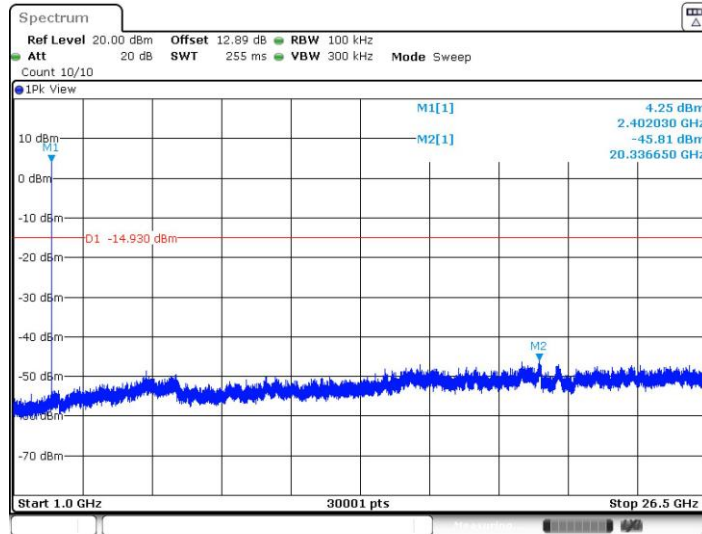


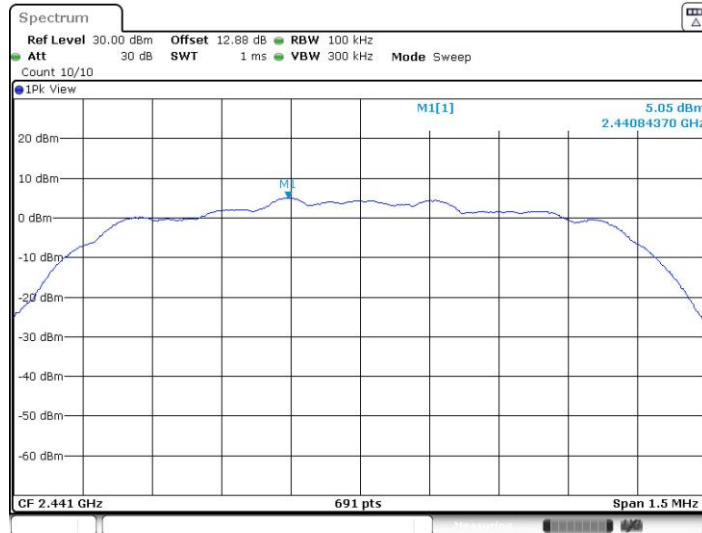


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Date: 16.NOV.2022 14:27:43

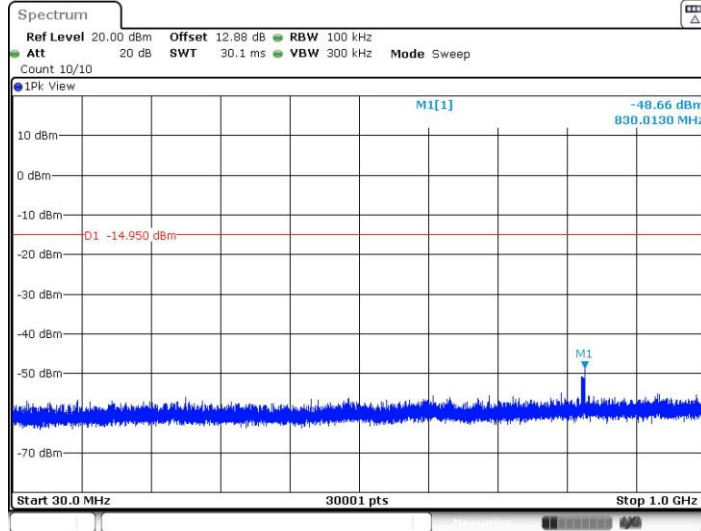
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Date: 16.NOV.2022 14:28:09

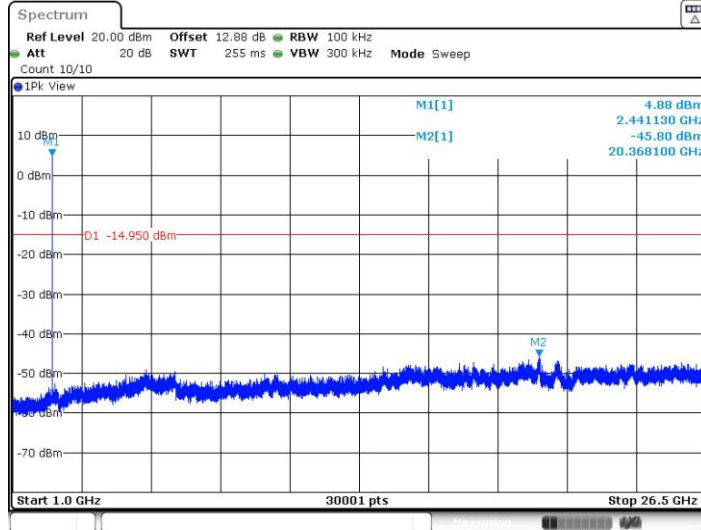


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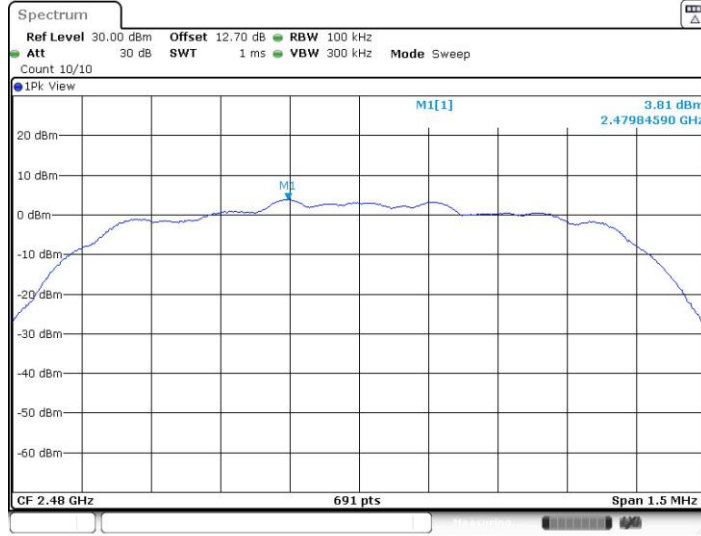
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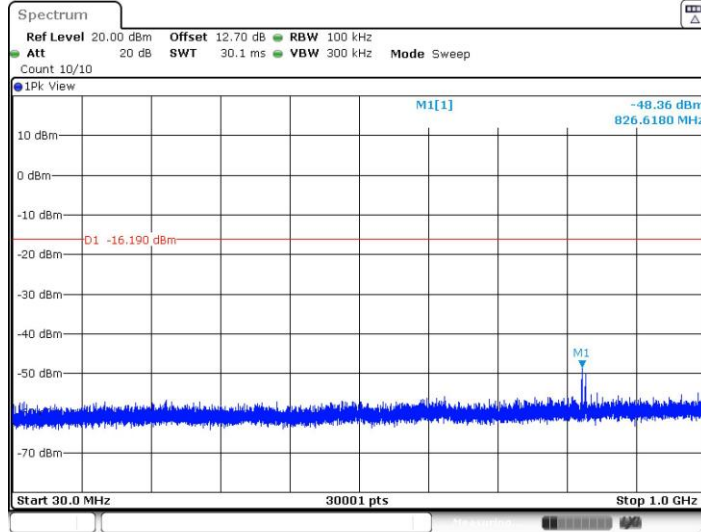
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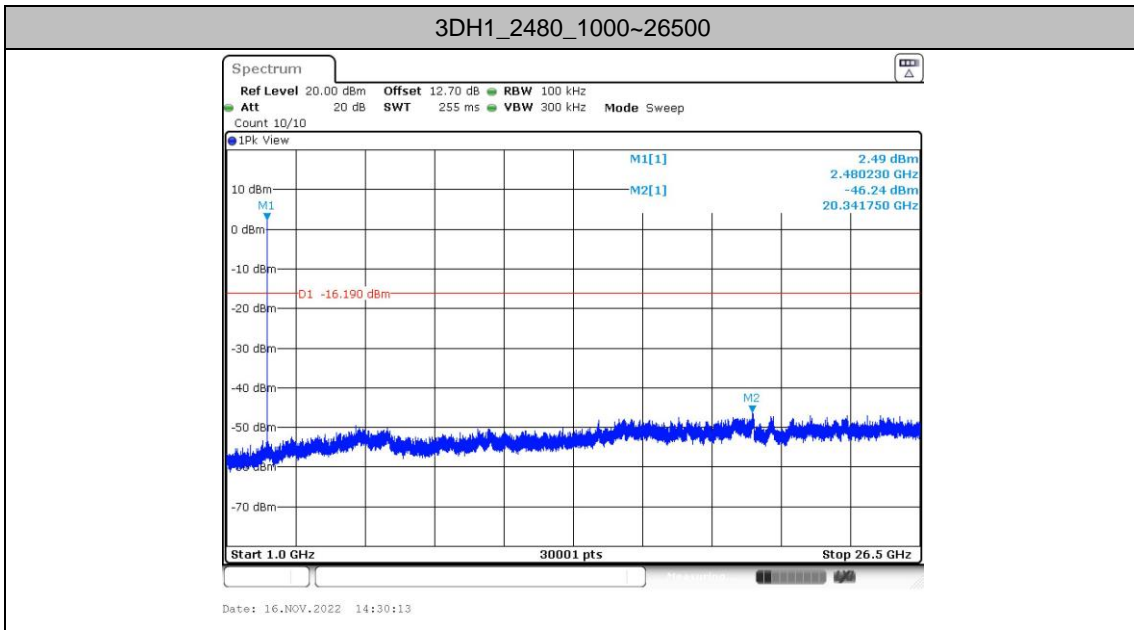


3DH1_2480_0~Reference



3DH1_2480_30~1000

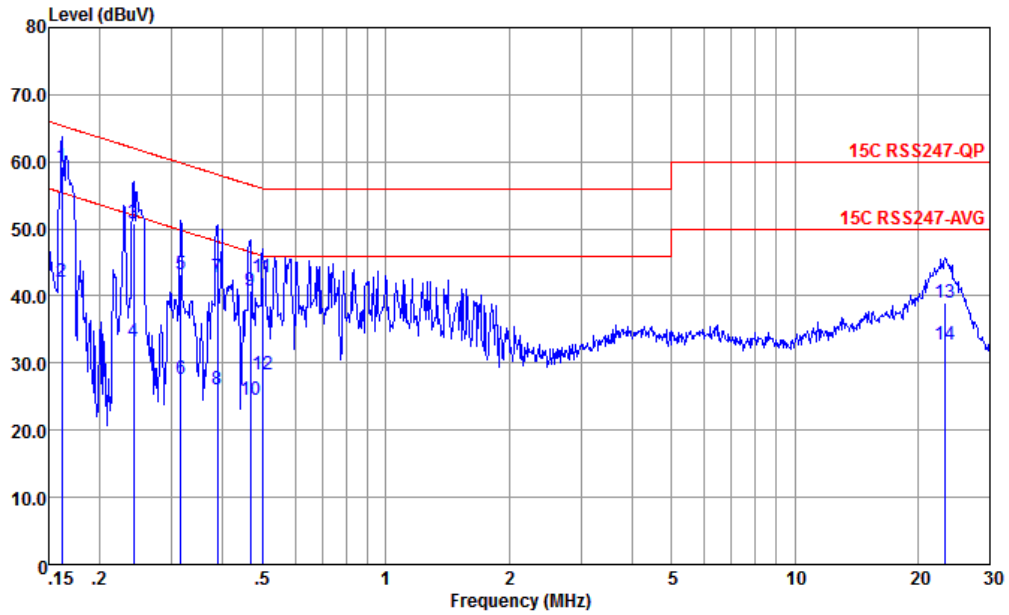






Appendix B. AC Conducted Emission Test Results

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.		

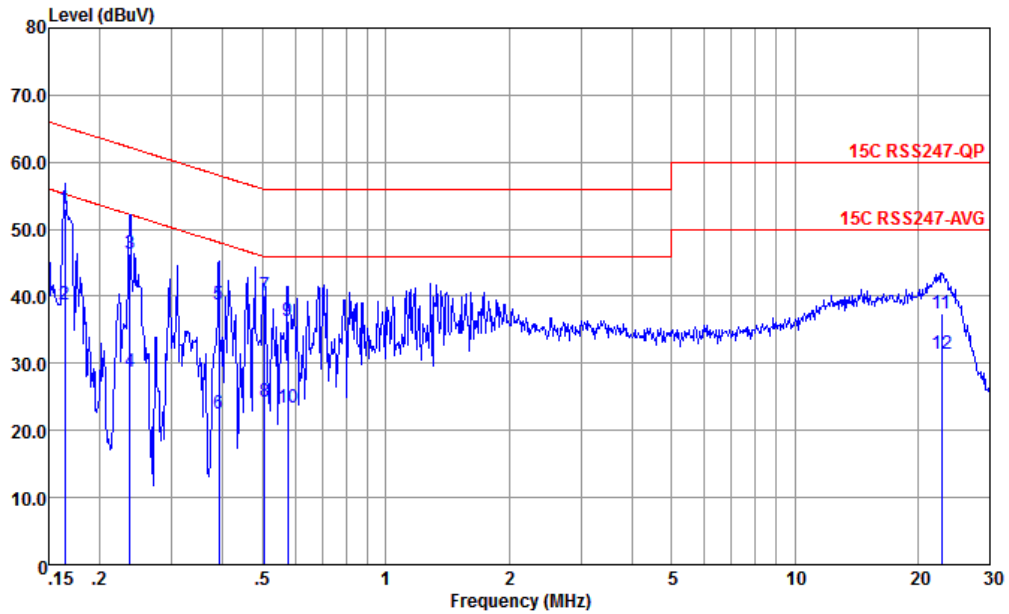


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.162	59.31	-6.07	65.38	48.80	0.06	10.45	QP
2	0.162	42.11	-13.27	55.38	31.60	0.06	10.45	Average
3	0.242	50.88	-11.16	62.04	40.50	0.04	10.34	QP
4	0.242	33.28	-18.76	52.04	22.90	0.04	10.34	Average
5	0.315	43.15	-16.69	59.84	32.80	0.05	10.30	QP
6	0.315	27.55	-22.29	49.84	17.20	0.05	10.30	Average
7	0.387	42.78	-15.34	58.12	32.50	0.01	10.27	QP
8	0.387	26.08	-22.04	48.12	15.80	0.01	10.27	Average
9	0.466	40.73	-15.85	56.58	30.51	-0.02	10.24	QP
10	0.466	24.43	-22.15	46.58	14.21	-0.02	10.24	Average
11	0.499	42.70	-13.31	56.01	32.50	-0.03	10.23	QP
12	0.499	28.40	-17.61	46.01	18.20	-0.03	10.23	Average
13	23.263	39.01	-20.99	60.00	28.79	-0.33	10.55	QP
14	23.263	32.81	-17.19	50.00	22.59	-0.33	10.55	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-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.164	53.08	-12.17	65.25	42.60	0.04	10.44	QP
2	0.164	38.78	-16.47	55.25	28.30	0.04	10.44	Average
3	0.237	46.25	-15.97	62.22	35.90	0.01	10.34	QP
4	0.237	28.85	-23.37	52.22	18.50	0.01	10.34	Average
5	0.391	38.70	-19.33	58.03	28.50	-0.07	10.27	QP
6	0.391	22.40	-25.63	48.03	12.20	-0.07	10.27	Average
7	0.505	40.05	-15.95	56.00	29.89	-0.08	10.24	QP
8	0.505	24.35	-21.65	46.00	14.19	-0.08	10.24	Average
9	0.576	36.35	-19.65	56.00	26.19	-0.08	10.24	QP
10	0.576	23.45	-22.55	46.00	13.29	-0.08	10.24	Average
11	22.896	37.33	-22.67	60.00	27.10	-0.31	10.54	QP
12	22.896	31.43	-18.57	50.00	21.20	-0.31	10.54	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 :	Carry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate
Mode 1	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps
Mode 2	2400-2483.5	Bluetooth BR_GFSK	39	2441	1Mbps
Mode 3	2400-2483.5	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	00	2356.28	56.29	74.00	-17.71	V	PEAK	Pass	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	46.92	74.00	-27.08	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.37	57.30	74.00	-16.70	V	PEAK	Pass	Band Edge



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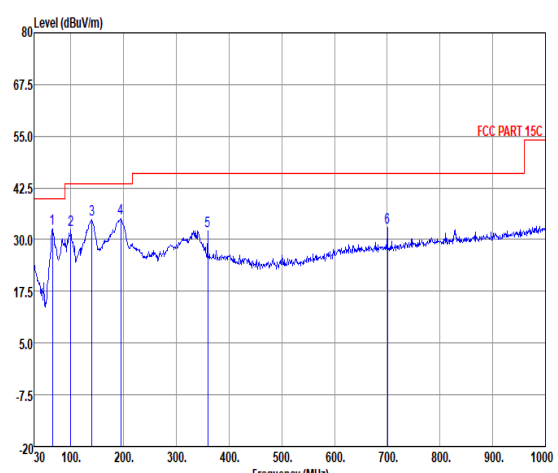
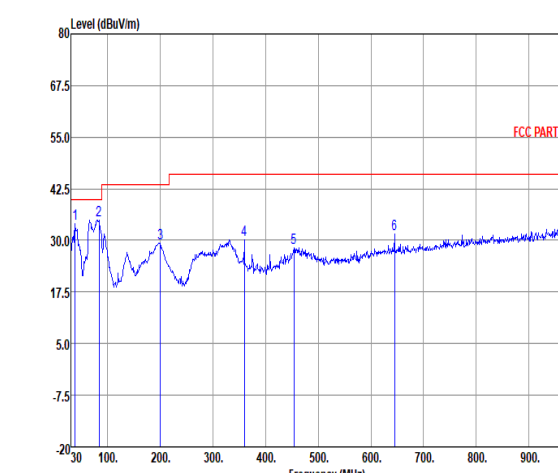


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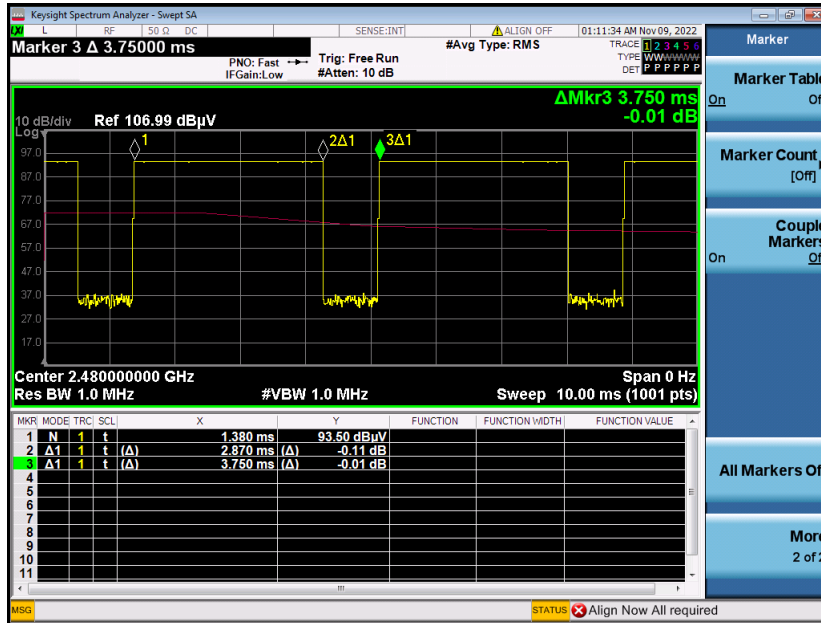


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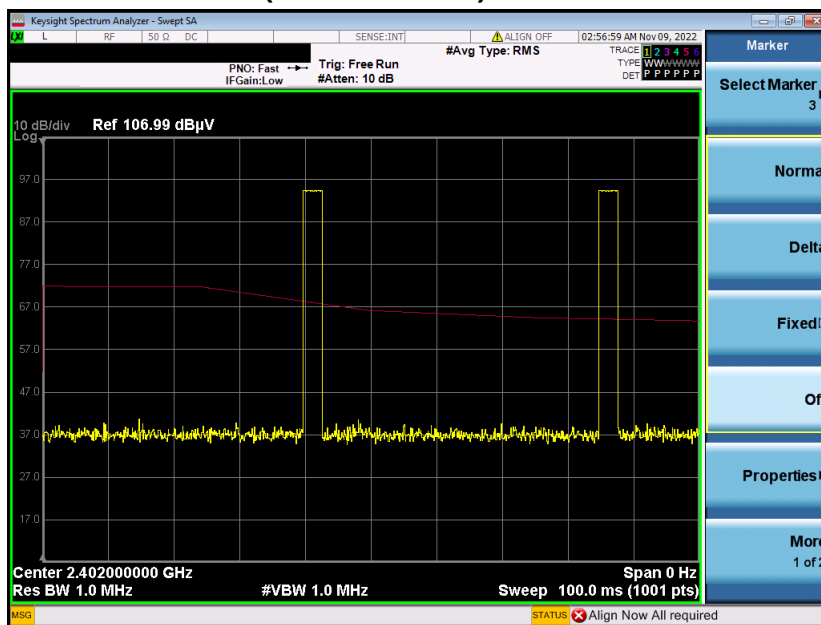


Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.87 / 100 = 5.74 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.82 dB
3. 3DH5 has the highest duty cycle worst case and is reported.