

Appendix RF test data for Zigbee

1. Duty Cycle

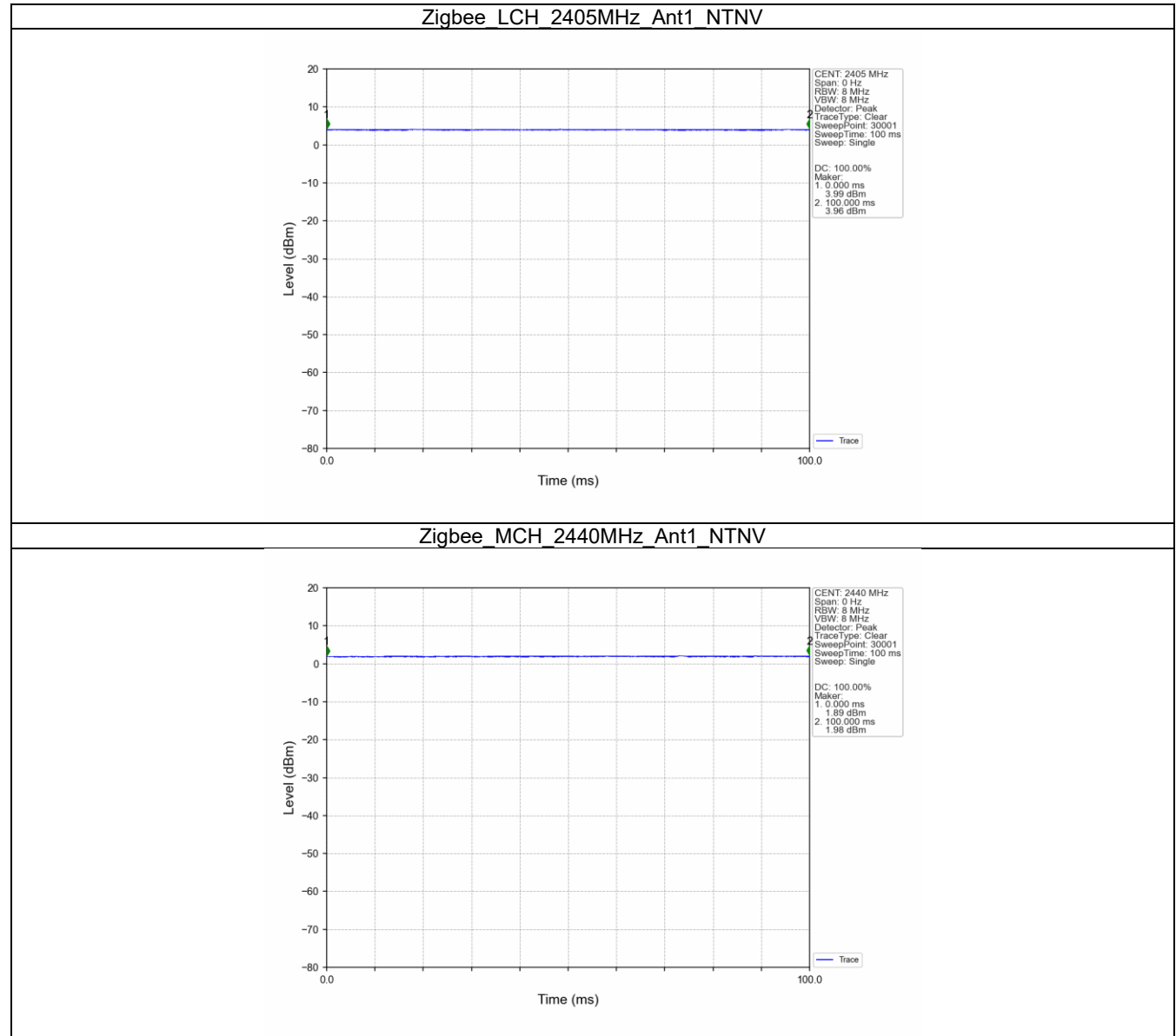
1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
Zigbee	SISO	2405	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

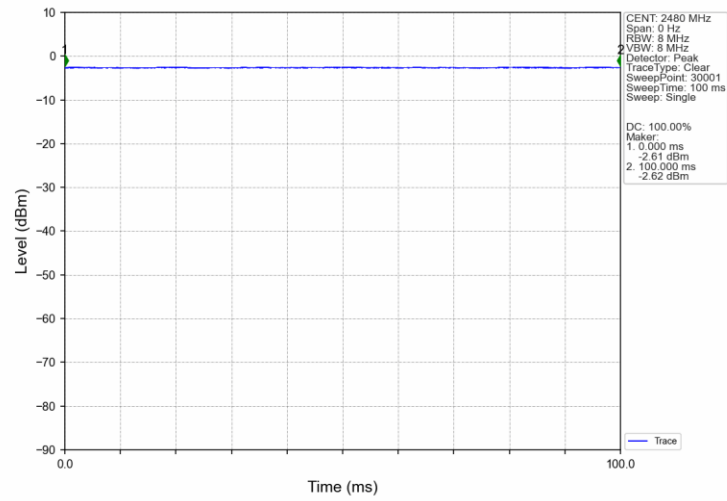
1.2 Test Graph

1.2.1 Ant1





Zigbee HCH 2480MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

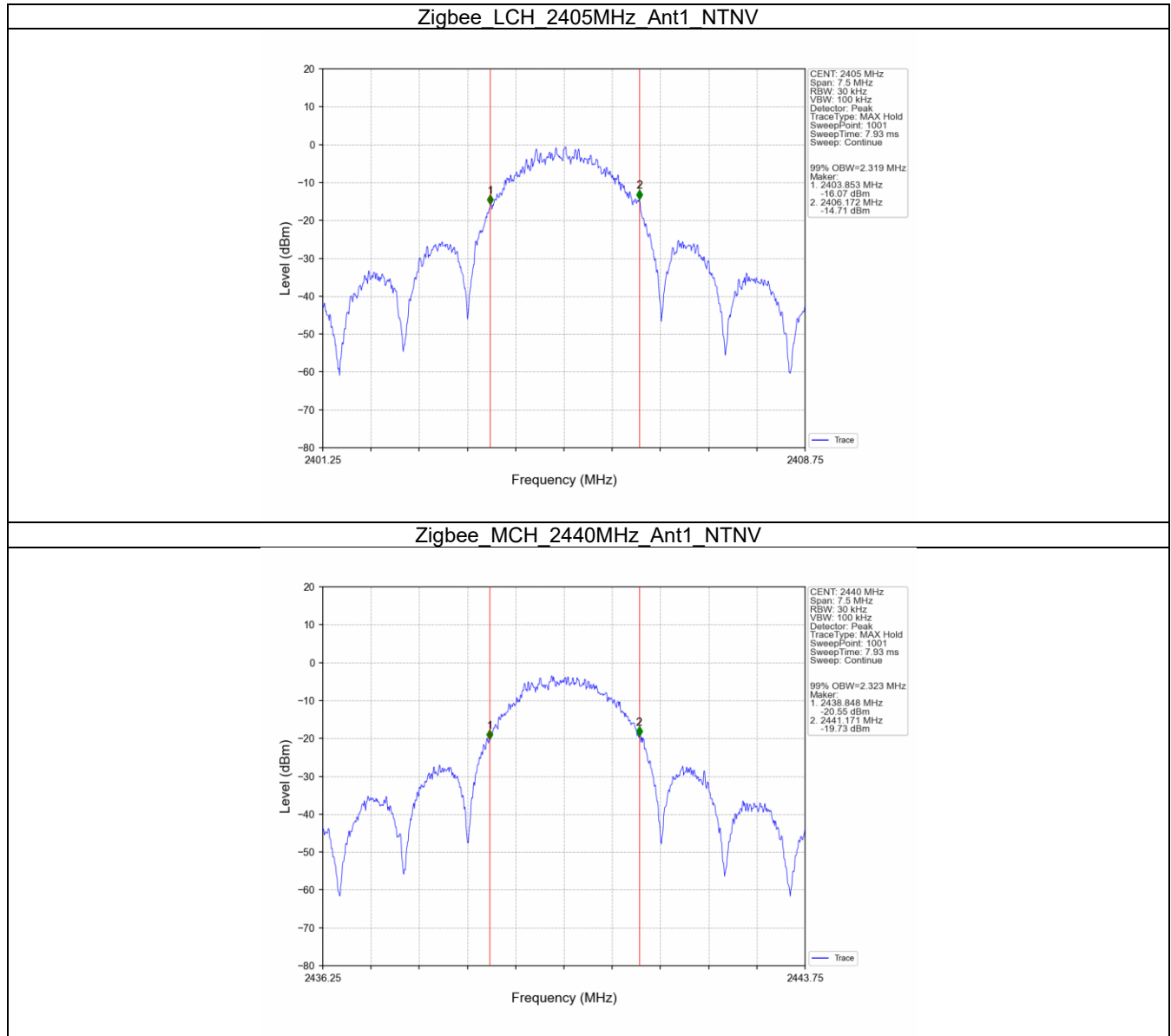
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	2.319	/	Pass
		2440	1	2.323	/	Pass
		2480	1	2.324	/	Pass

2.1.2 6dB BW

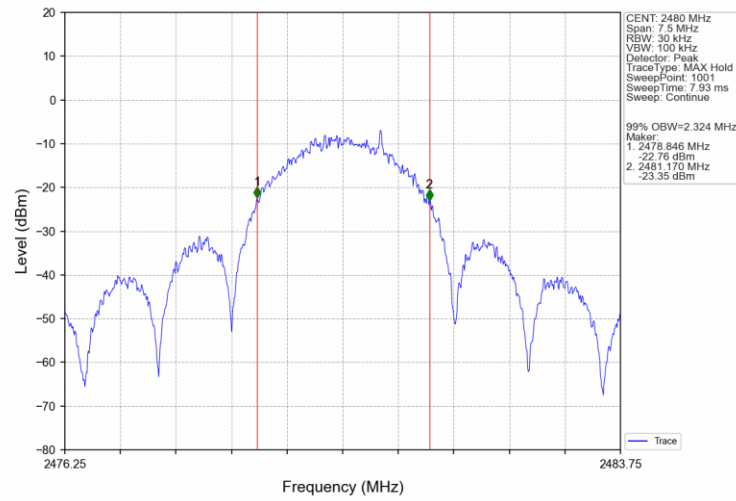
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	1.513	≥ 0.5	Pass
		2440	1	1.541	≥ 0.5	Pass
		2480	1	1.601	≥ 0.5	Pass

2.2 Test Graph

2.2.1 OBW

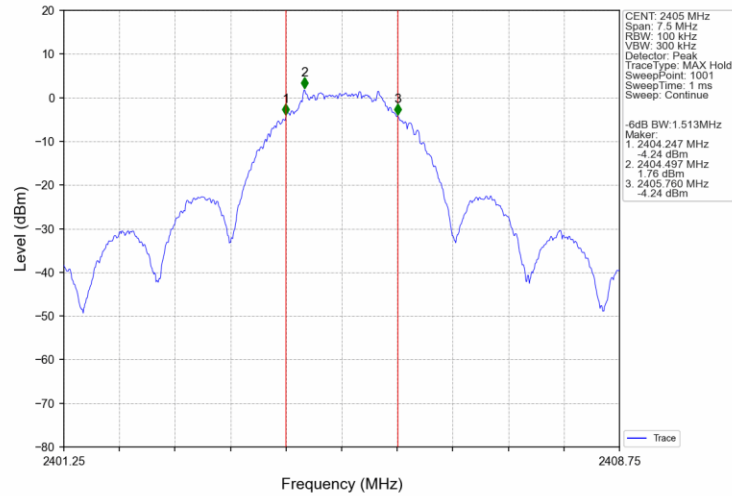


Zigbee HCH 2480MHz Ant1 NTN

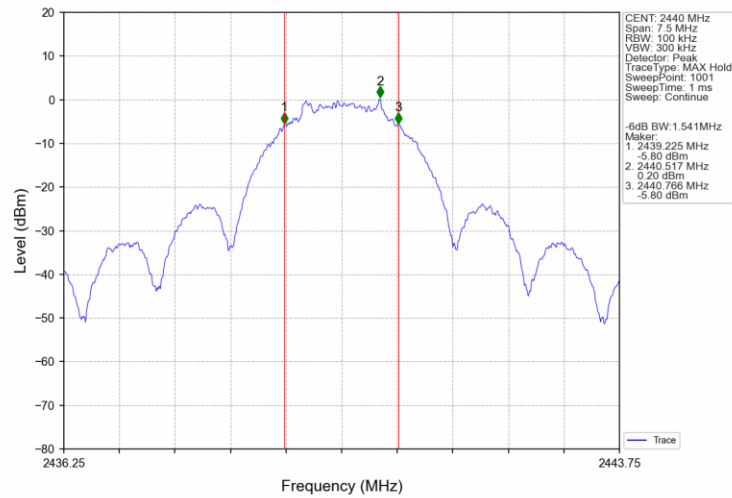


2.2.2 6dB BW

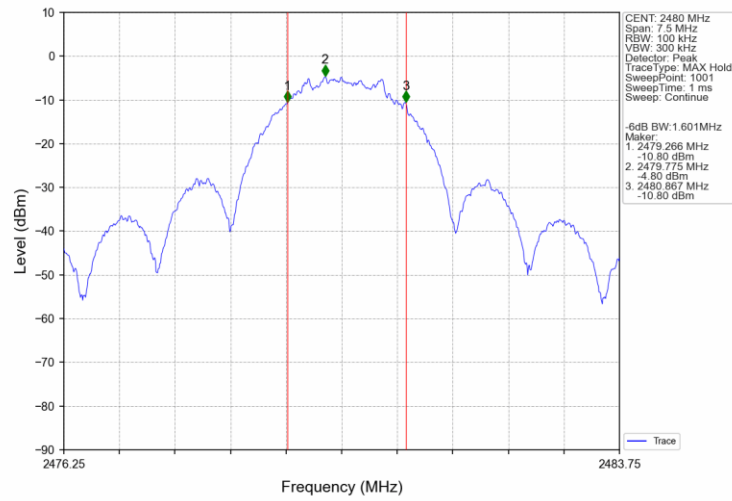
Zigbee_LCH_2405MHz_Ant1_NTNV



Zigbee_MCH_2440MHz_Ant1_NTNV



Zigbee HCH 2480MHz Ant1 NTN



3. Maximum Conducted Output Power

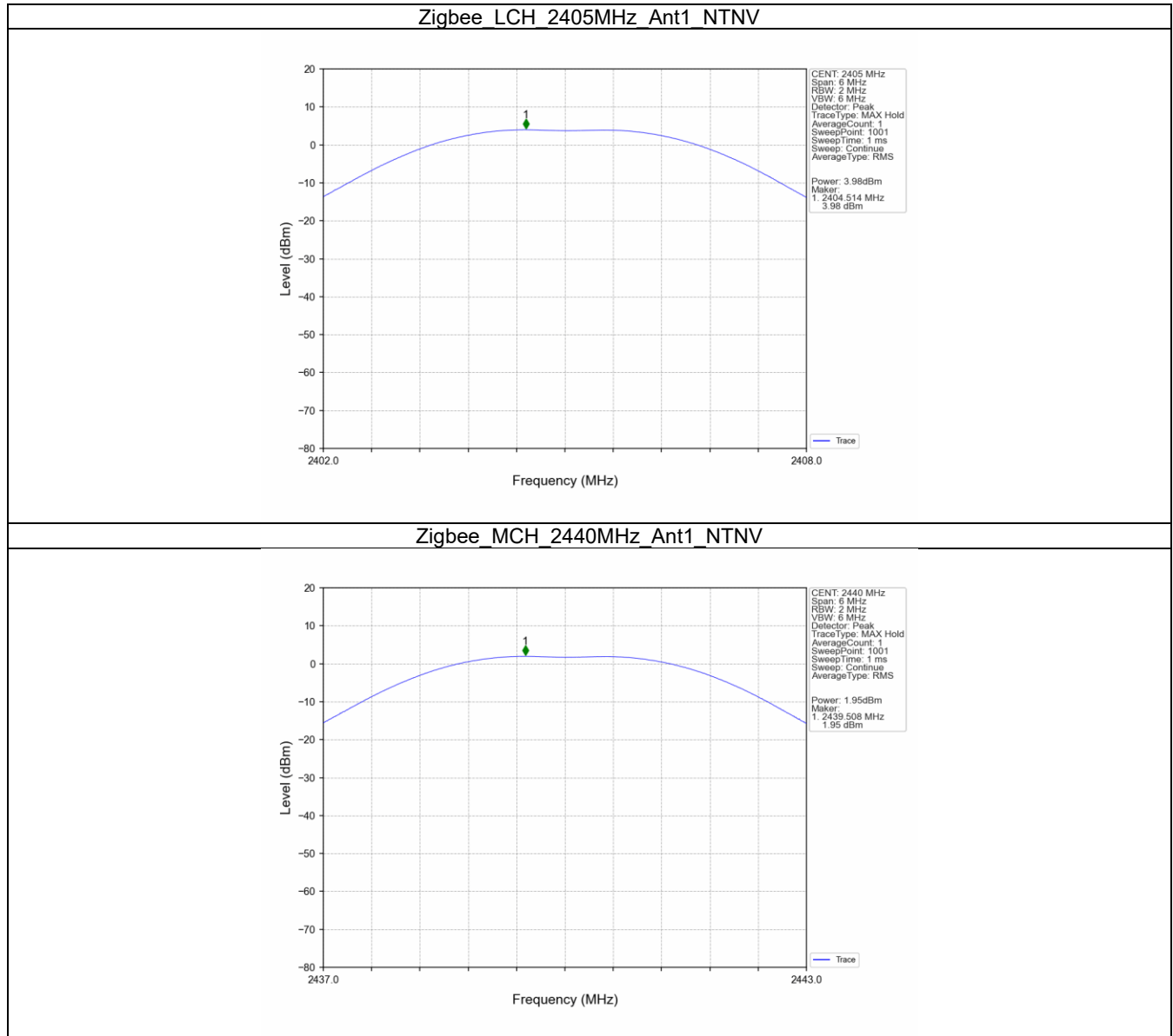
3.1 Test Result

3.1.1 Power

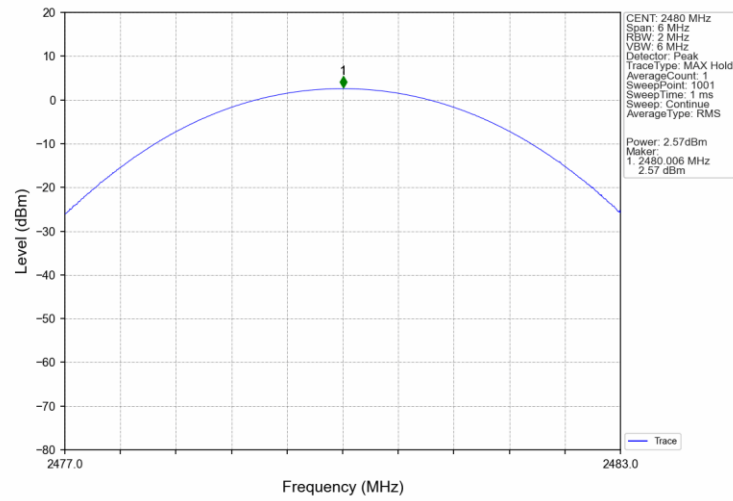
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
Zigbee	SISO	2405	3.98	<=30	Pass
		2440	1.95	<=30	Pass
		2480	2.57	<=30	Pass

3.2 Test Graph

3.2.1 Power



Zigbee HCH 2480MHz Ant1 NTN



4. Maximum Power Spectral Density

4.1 Test Result

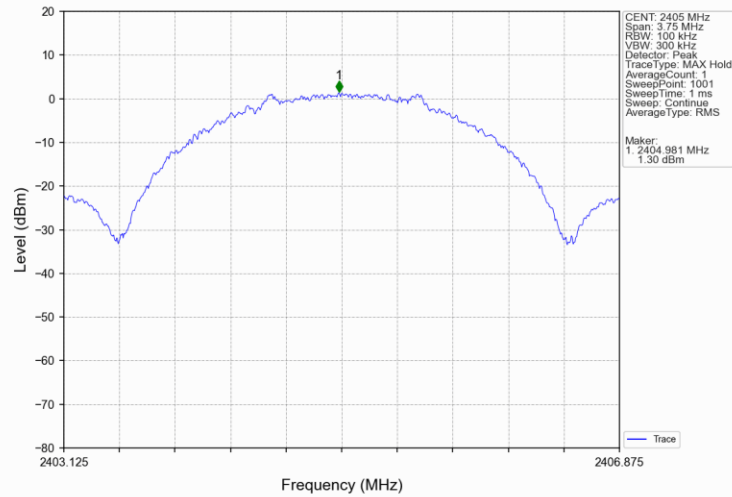
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
Zigbee	SISO	2405	1.30	<=8	Pass
		2440	-0.59	<=8	Pass
		2480	-0.01	<=8	Pass

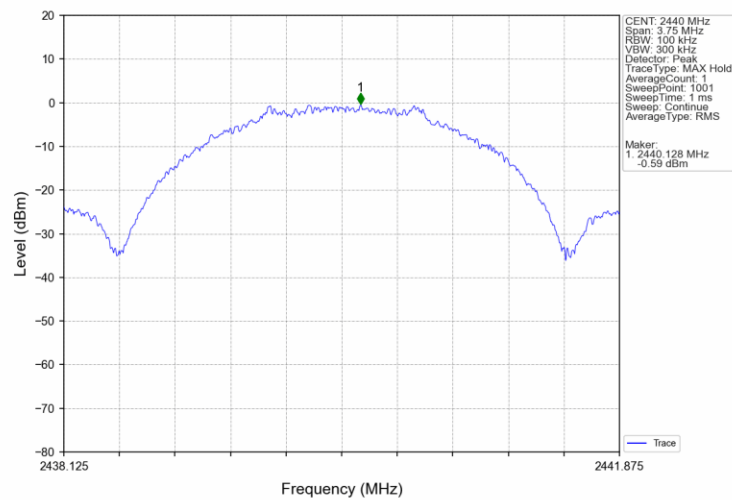
4.2 Test Graph

4.2.1 PSD

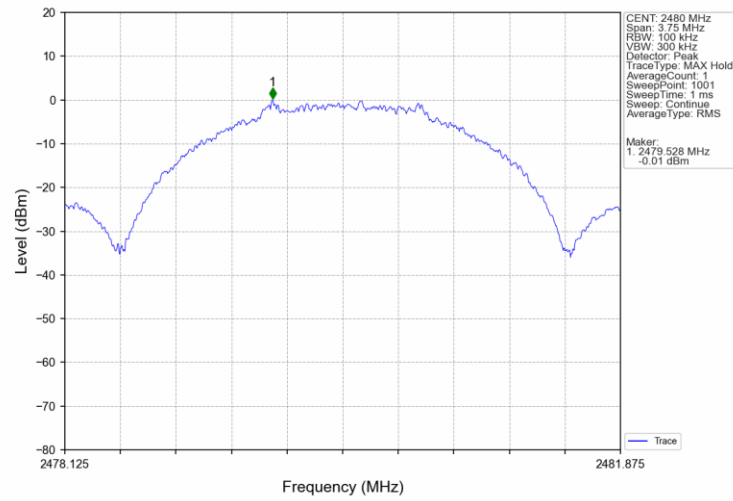
Zigbee LCH 2405MHz Ant1 NTN



Zigbee_MCH_2440MHz_Ant1_NTNV



Zigbee HCH 2480MHz Ant1 NTN



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

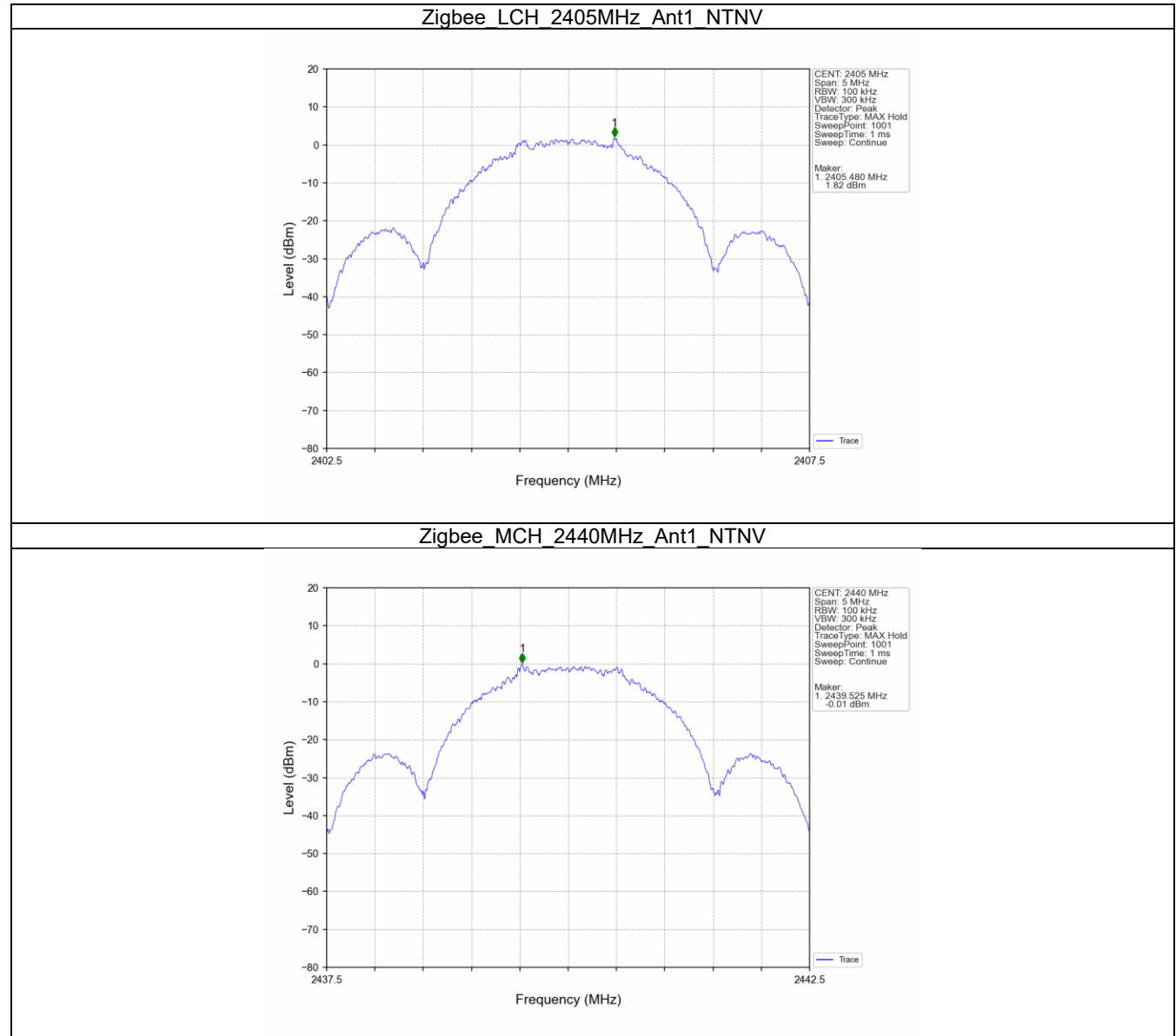
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
Zigbee	SISO	2405	1	1.82
		2440	1	-0.01
		2480	1	-4.82

5.1.2 CSE

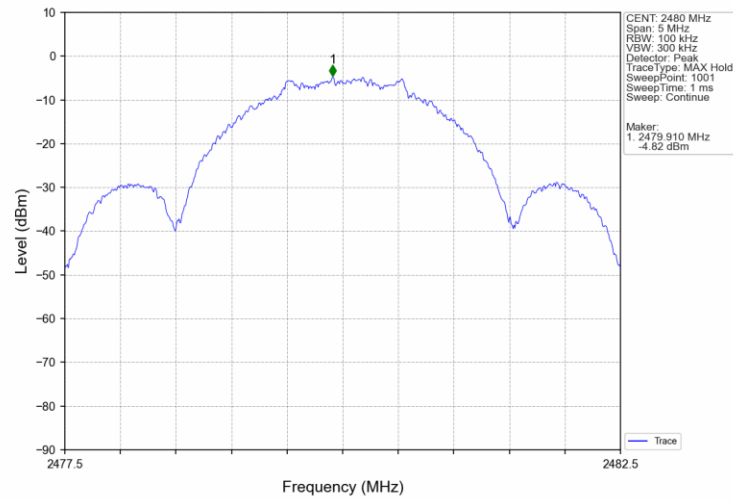
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
Zigbee	SISO	2405	1	1.82	-18.18	Pass
		2440	1	-0.01	-20.01	Pass
		2480	1	-4.82	-24.82	Pass

5.2 Test Graph

5.2.1 Ref

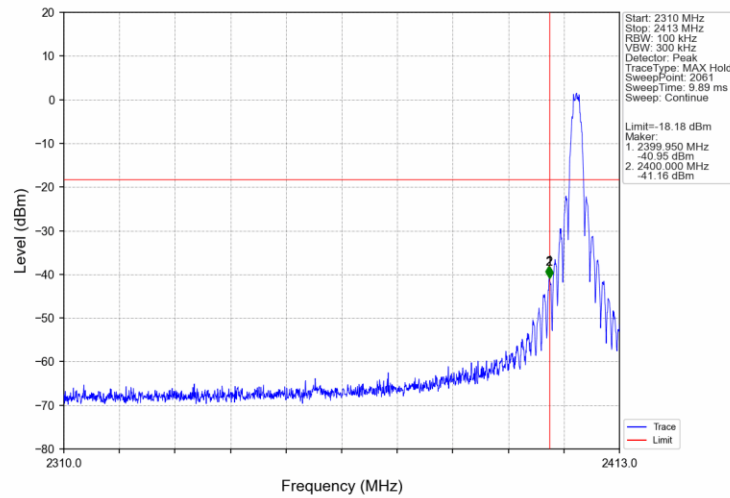


Zigbee HCH 2480MHz Ant1 NTN

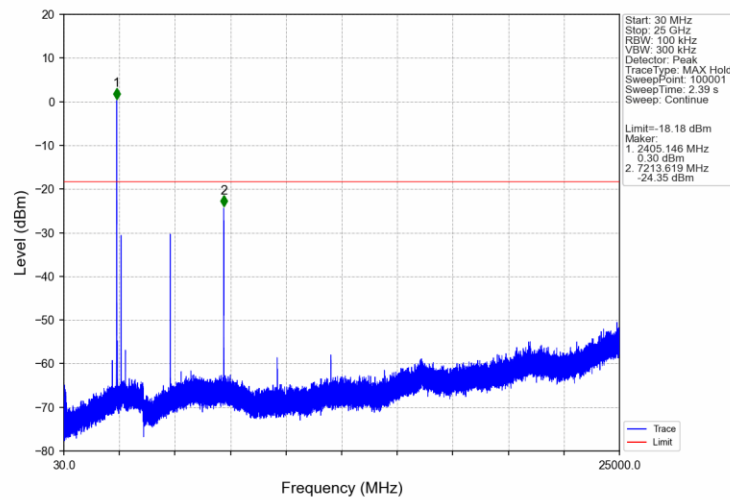


5.2.2 CSE

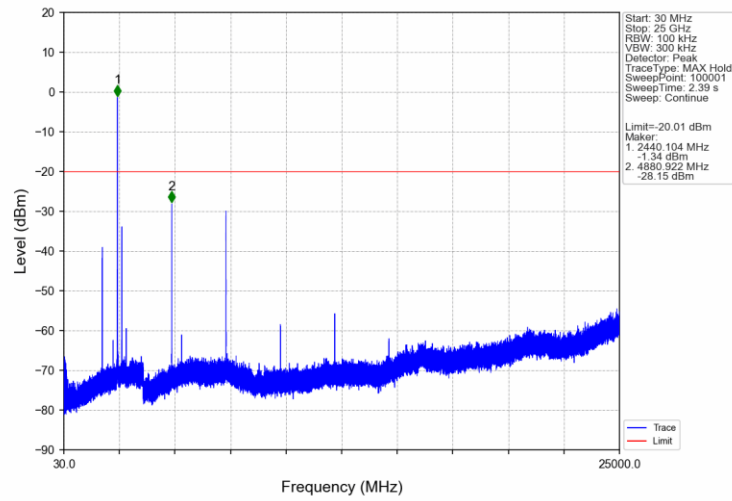
Zigbee_LCH_2405MHz_Ant1_NTNV



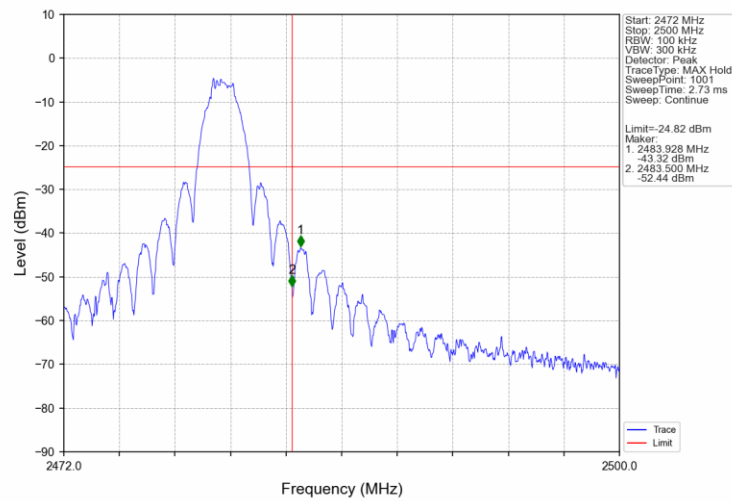
Zigbee_LCH_2405MHz_Ant1_NTNV



Zigbee_MCH_2440MHz_Ant1_NTNV

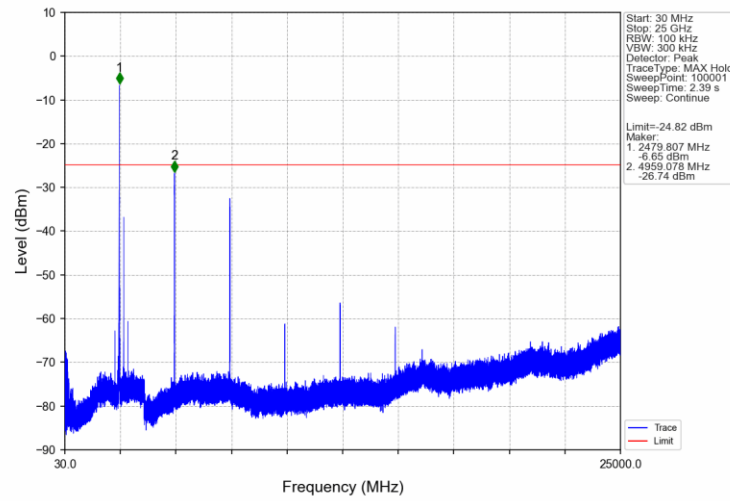


Zigbee_HCH_2480MHz_Ant1_NTNV





Zigbee HCH 2480MHz Ant1 NTNV



***** End of Report *****