

Appendix: 2.4G

Content

Content	2
1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	8
2.1 Test Result	8
2.1.1 OBW	8
2.1.2 6dB BW	8
2.2 Test Graph	9
2.2.1 OBW	9
2.2.2 6dB BW	12
3. Maximum Conducted Output Power	15
3.1 Test Result	15
3.1.1 Power	15
3.2 Test Graph	16
3.2.1 Power	16
4. Maximum Power Spectral Density	19
4.1 Test Result	19
4.1.1 PSD	19
4.2 Test Graph	20
4.2.1 PSD	20

5. Unwanted Emissions In Non-restricted Frequency Bands	23
5.1 Test Result	23
5.1.1 Ref	23
5.1.2 CSE	23
5.2 Test Graph	24
5.2.1 Ref	24
5.2.2 CSE	27

1. Duty Cycle

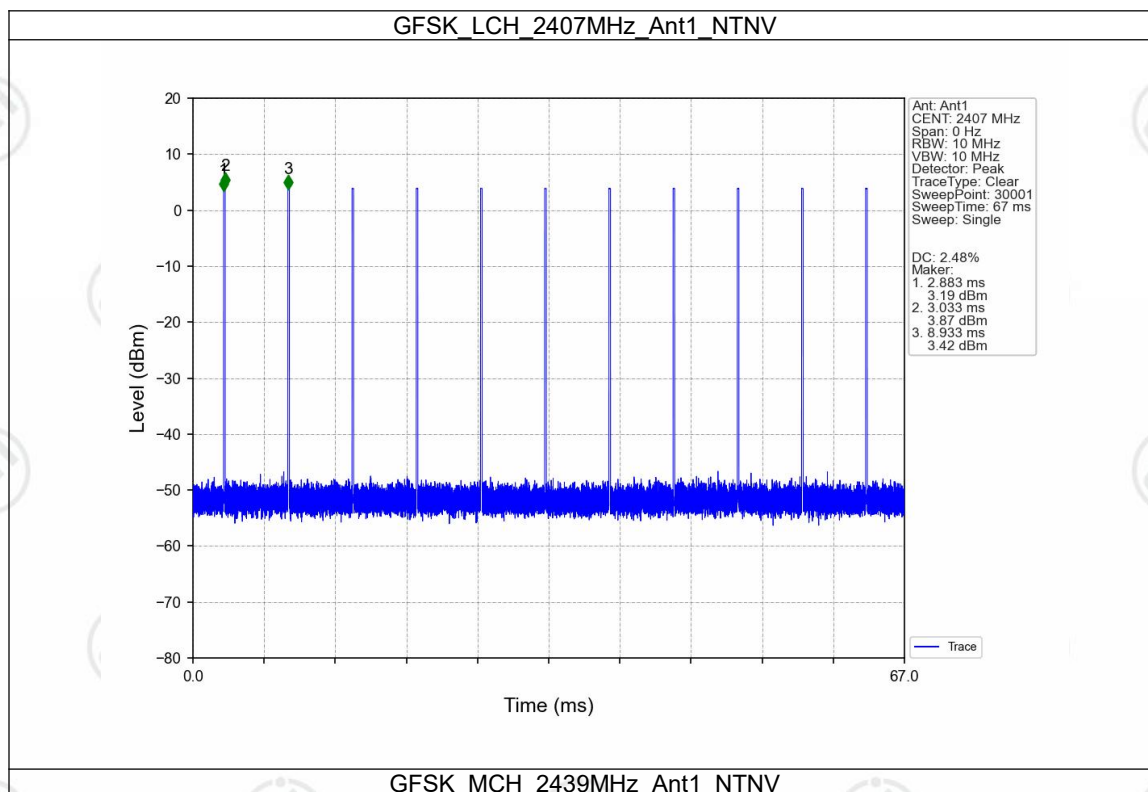
1.1 Test Result

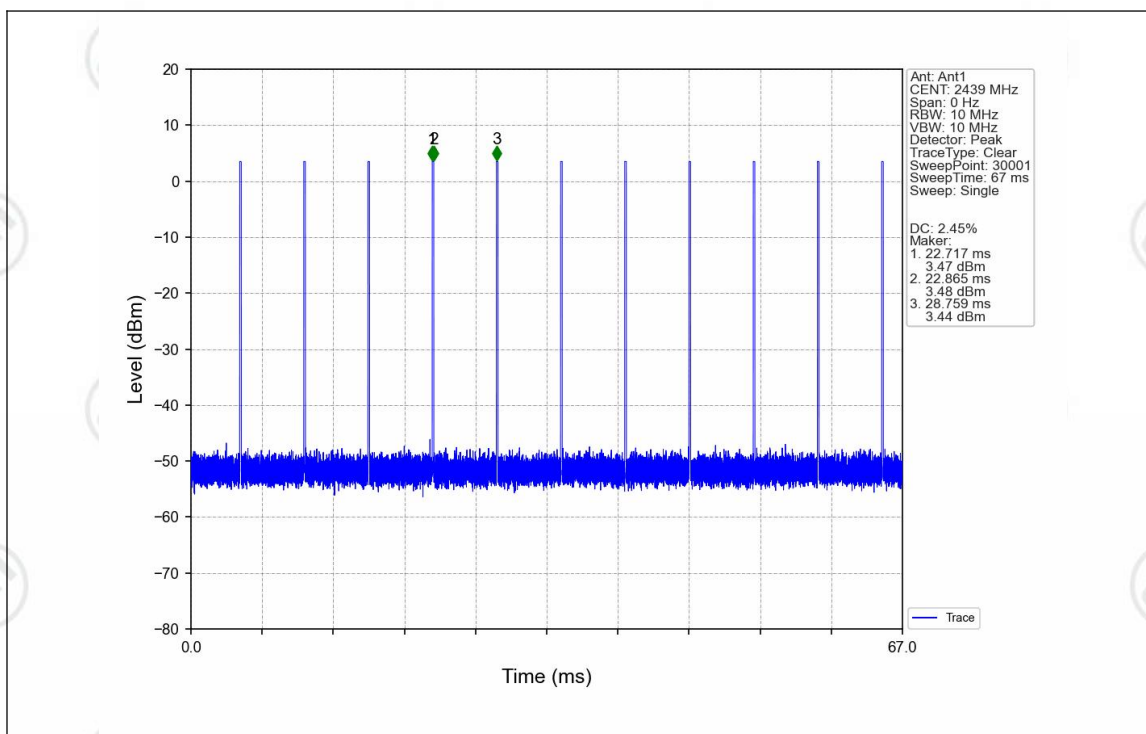
1.1.1 Ant1

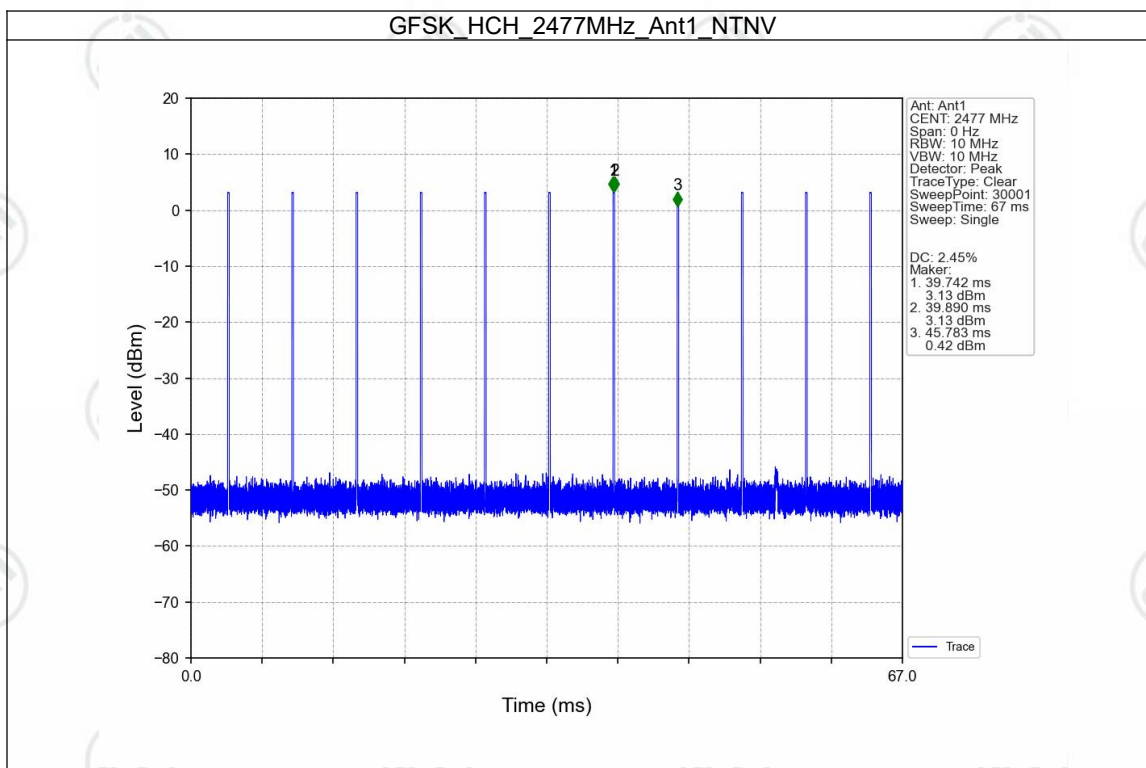
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2407	0.150	6.050	2.48	16.06	0.01
		2439	0.148	6.042	2.45	16.11	0.04
		2477	0.148	6.041	2.45	16.11	0.04

1.2 Test Graph

1.2.1 Ant1







2. Bandwidth

2.1 Test Result

2.1.1 OBW

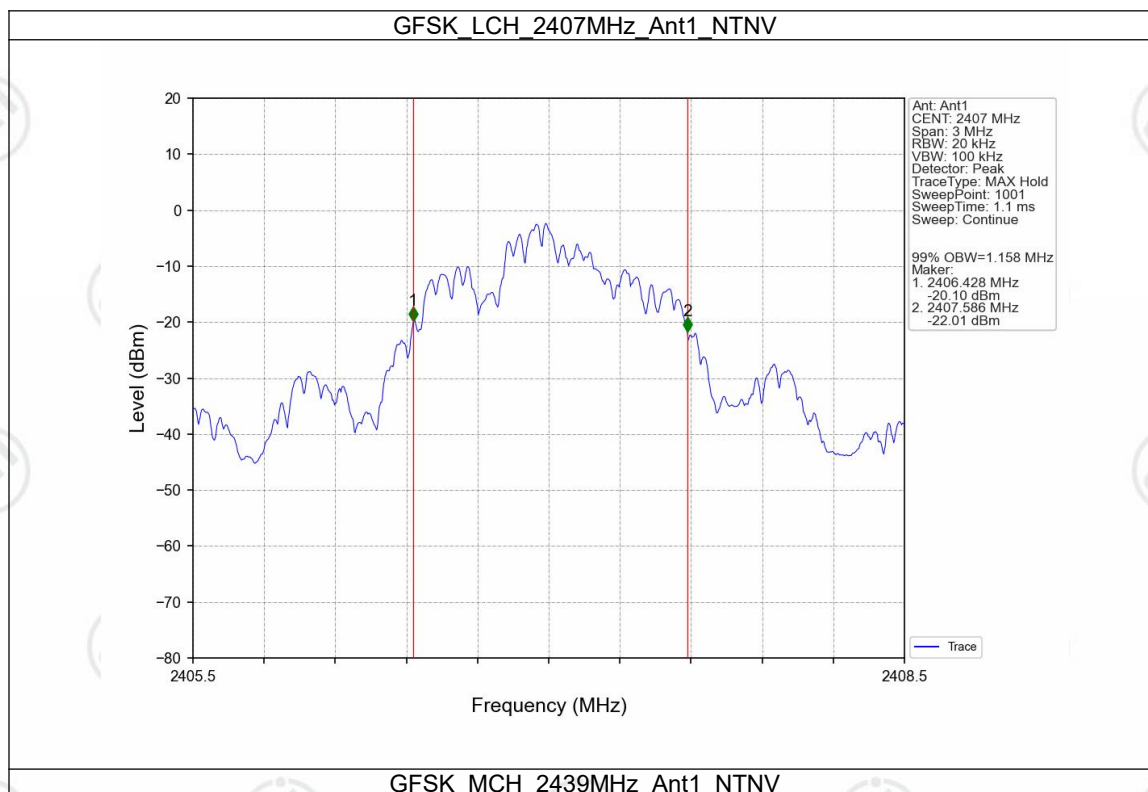
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
GFSK	SISO	2407	1	1.158	/	Pass
		2439	1	1.179	/	Pass
		2477	1	1.181	/	Pass

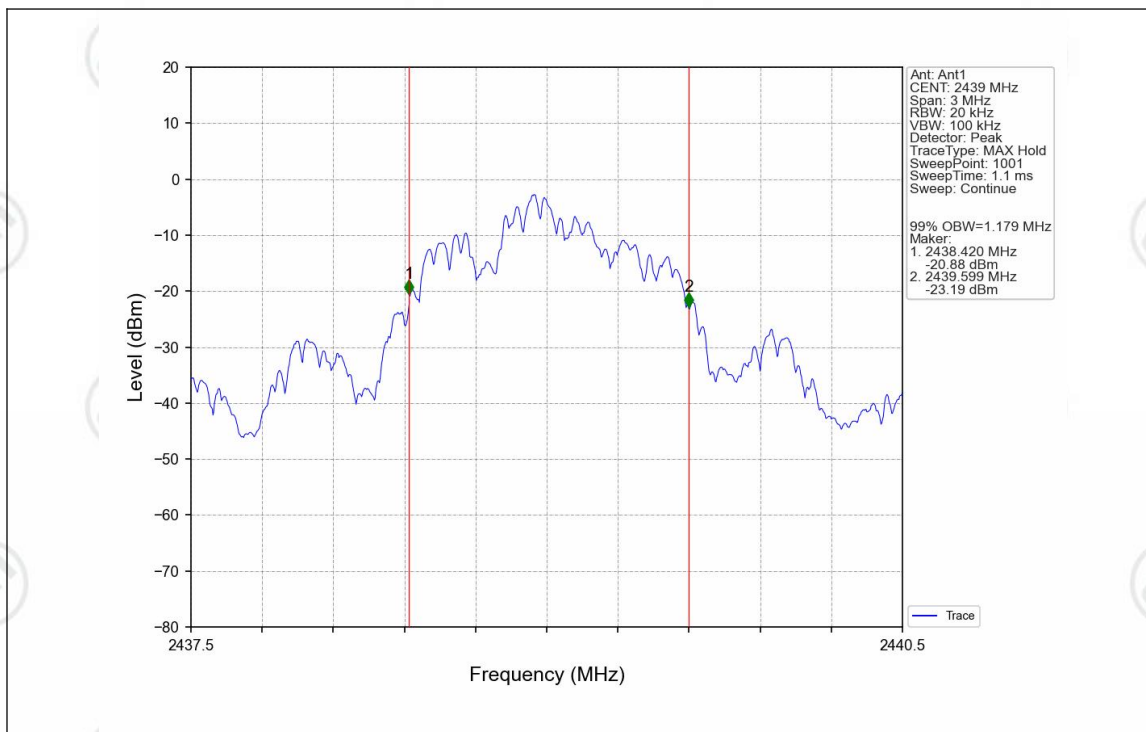
2.1.2 6dB BW

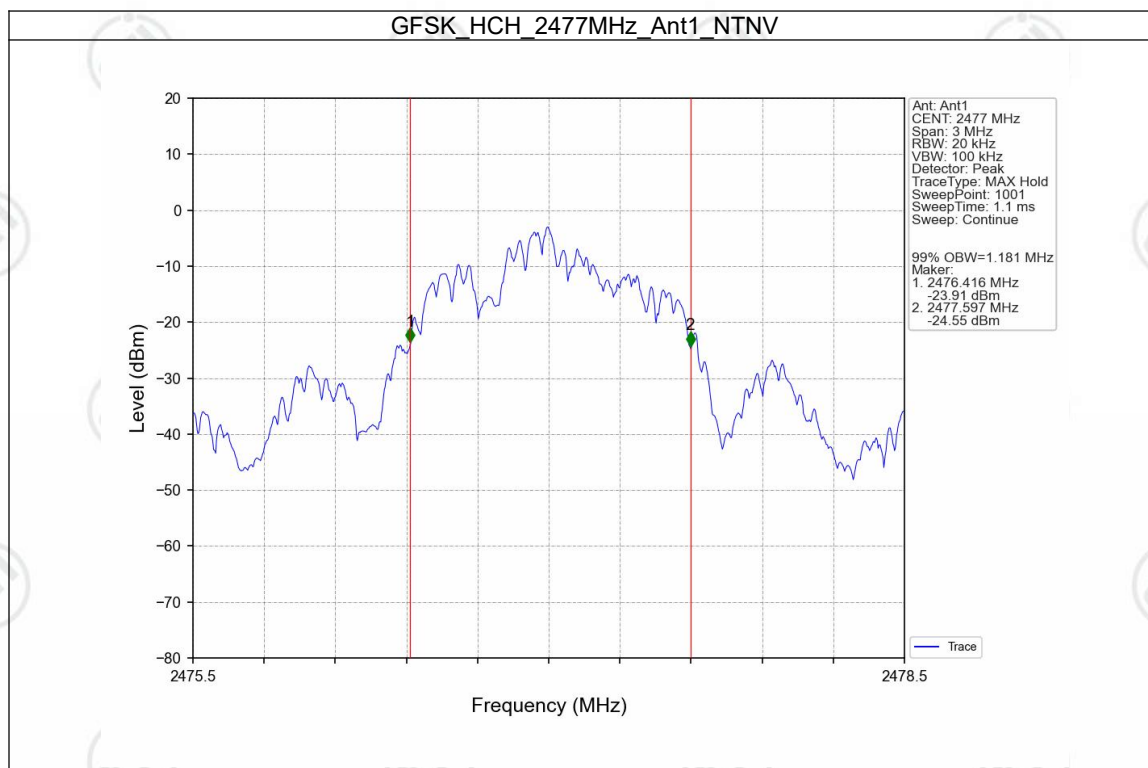
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
GFSK	SISO	2407	1	0.607	≥ 0.5	Pass
		2439	1	0.662	≥ 0.5	Pass
		2477	1	0.690	≥ 0.5	Pass

2.2 Test Graph

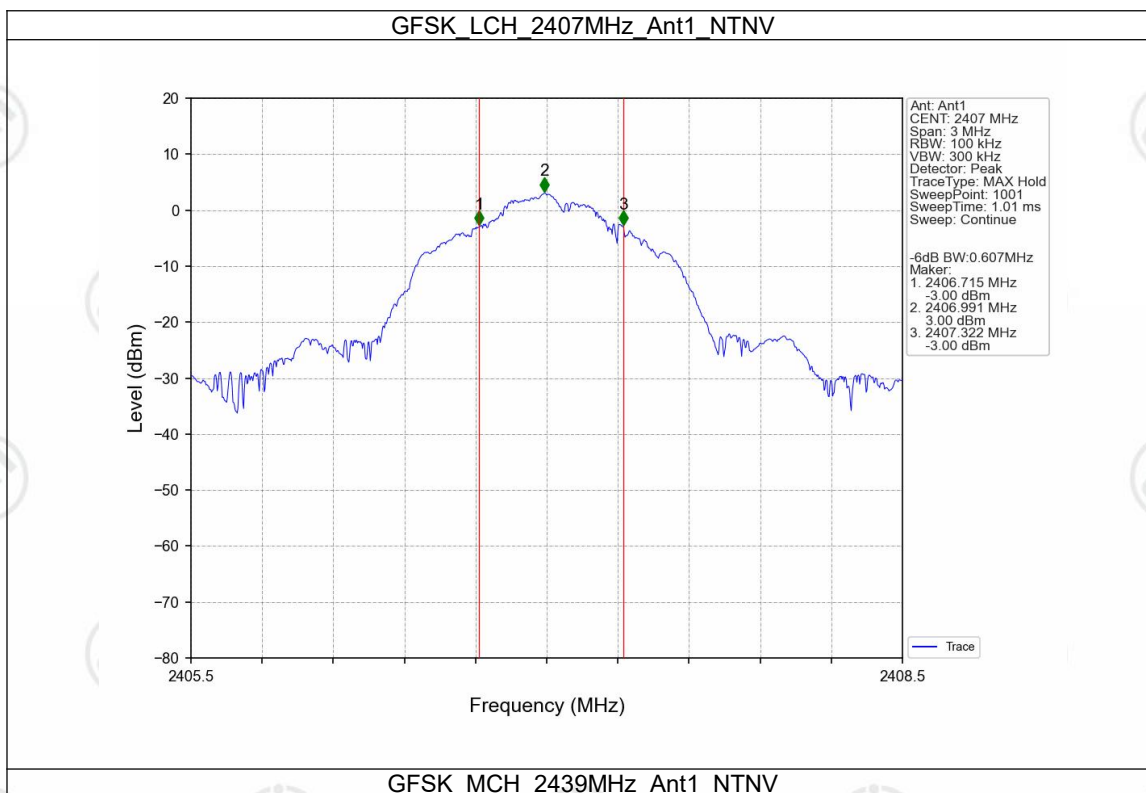
2.2.1 OBW

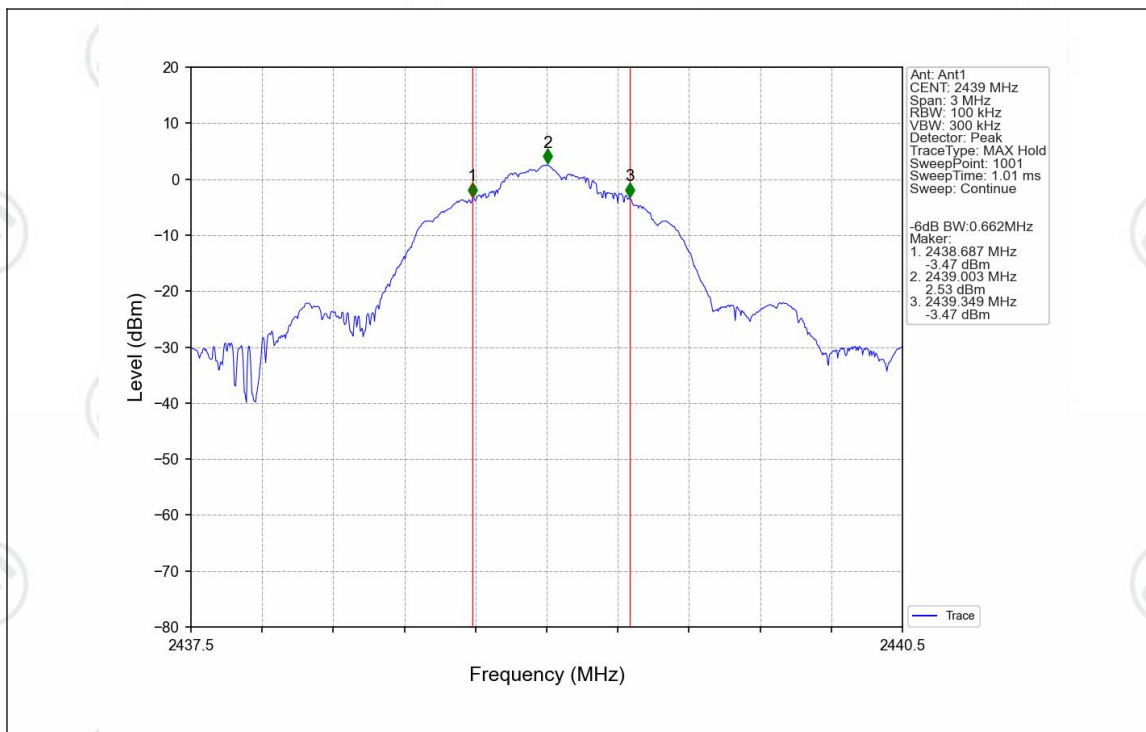


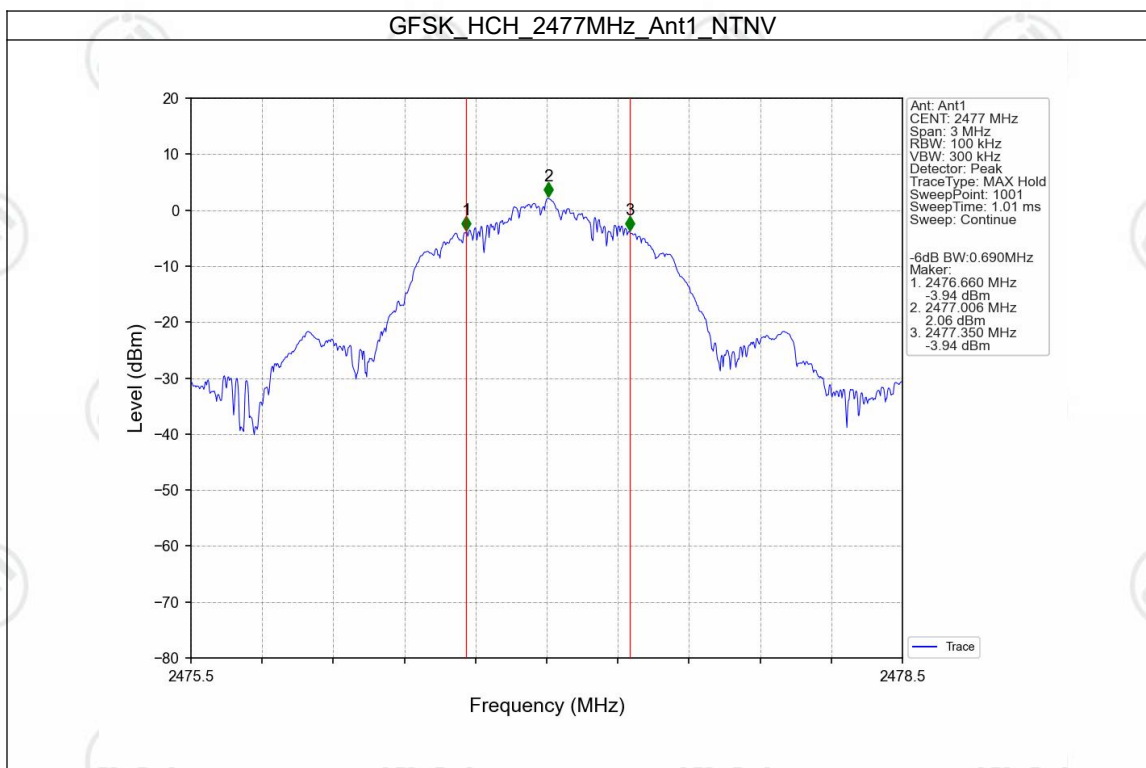




2.2.2 6dB BW







3. Maximum Conducted Output Power

3.1 Test Result

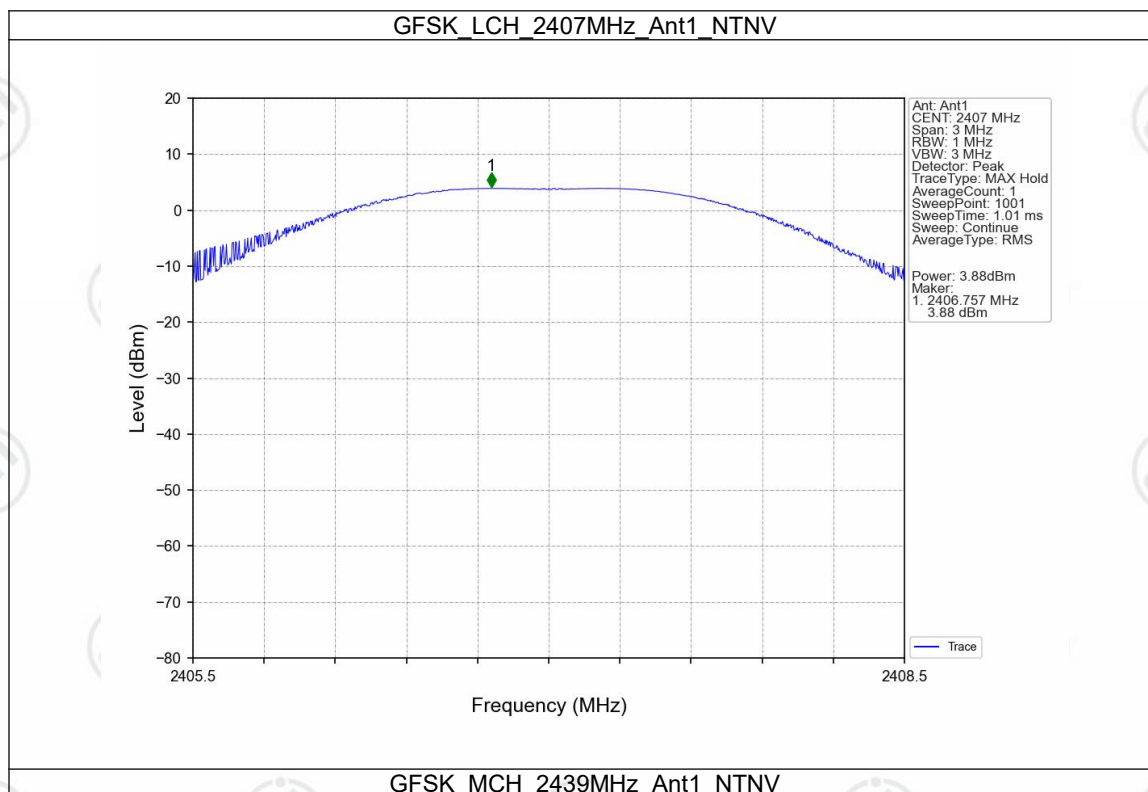
3.1.1 Power

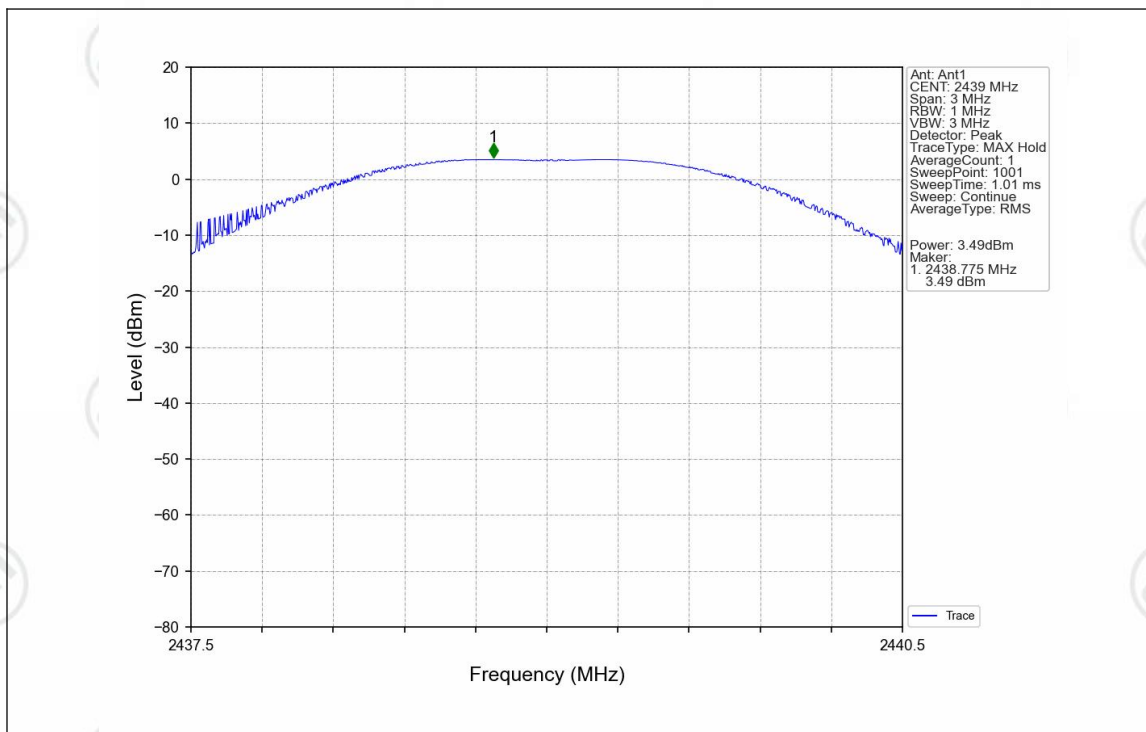
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
GFSK	SISO	2407	3.88	<=30	Pass
		2439	3.49	<=30	Pass
		2477	3.14	<=30	Pass

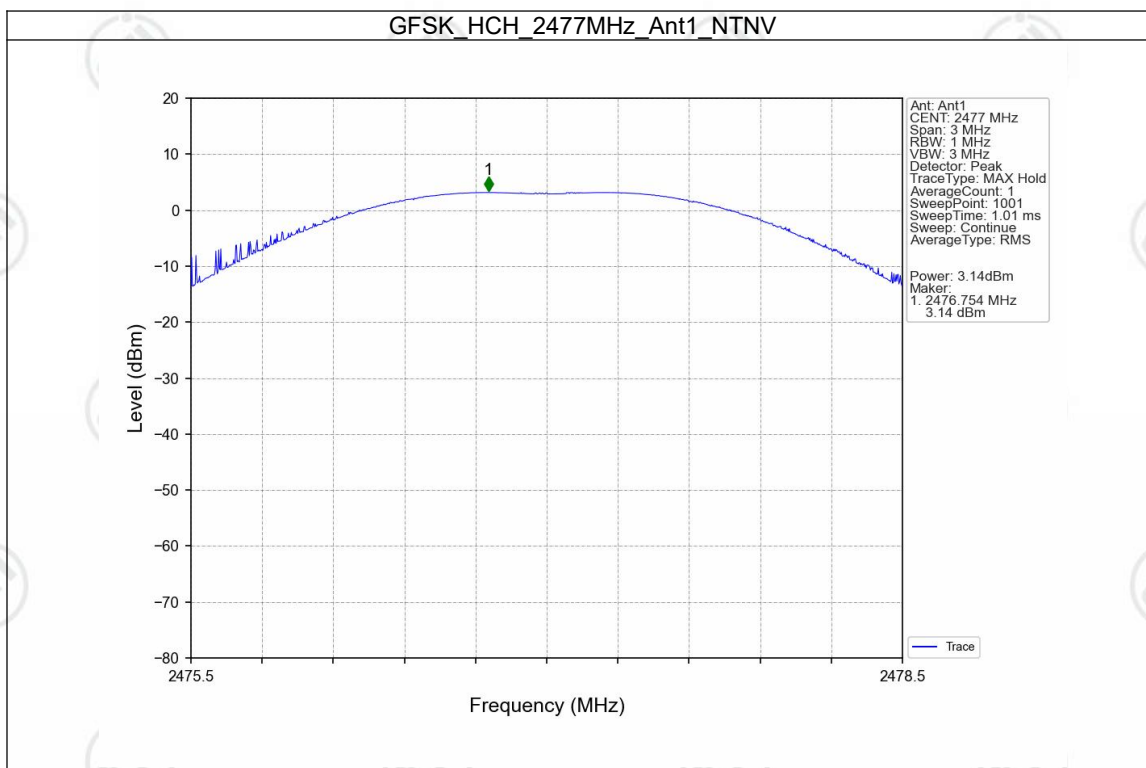
Note1: Antenna Gain: Ant1: -1.02dBi;

3.2 Test Graph

3.2.1 Power







4. Maximum Power Spectral Density

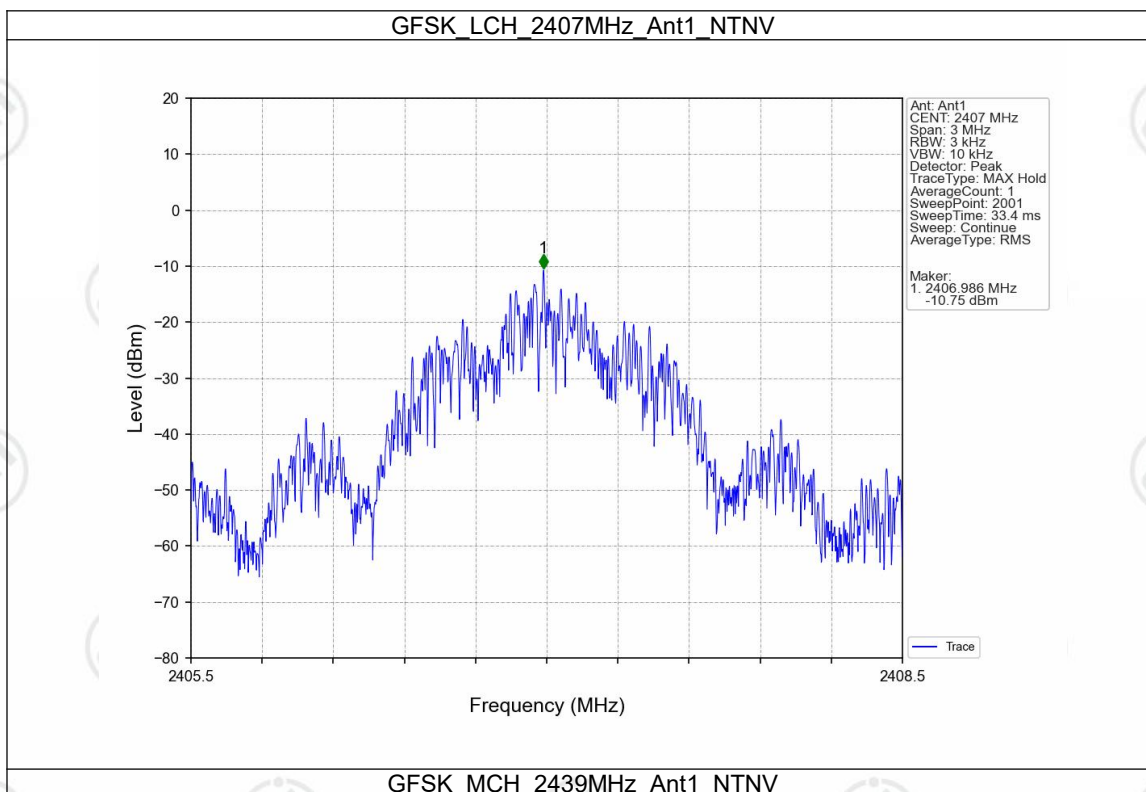
4.1 Test Result

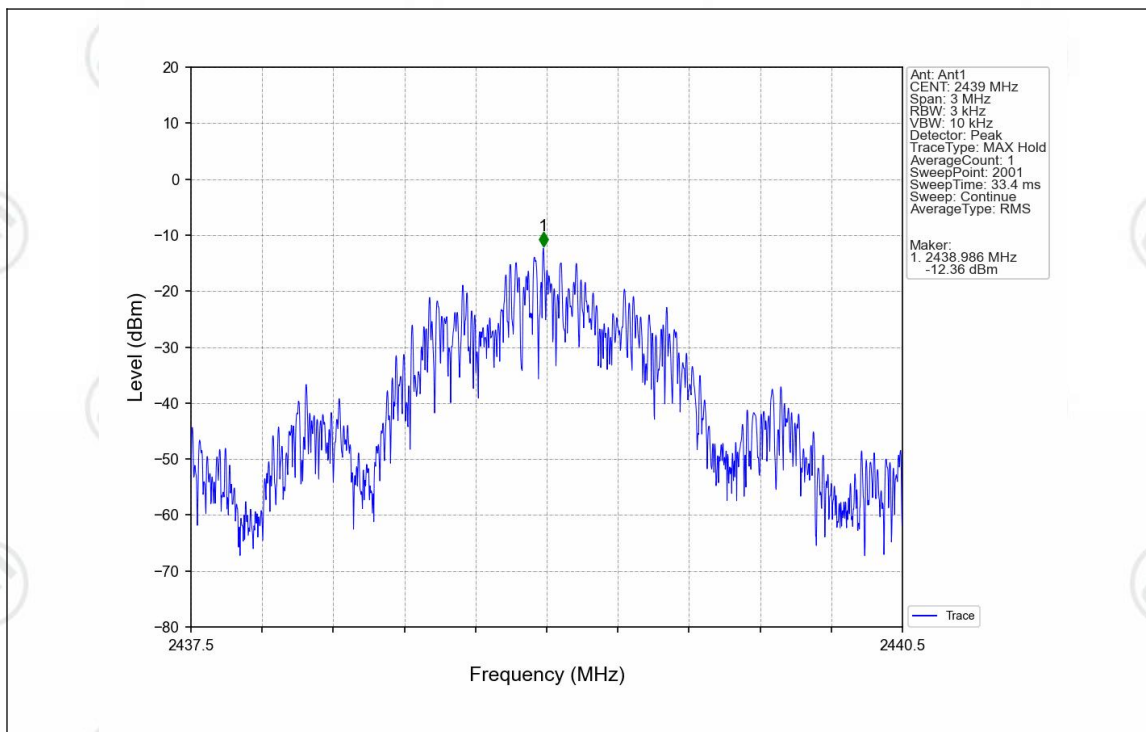
4.1.1 PSD

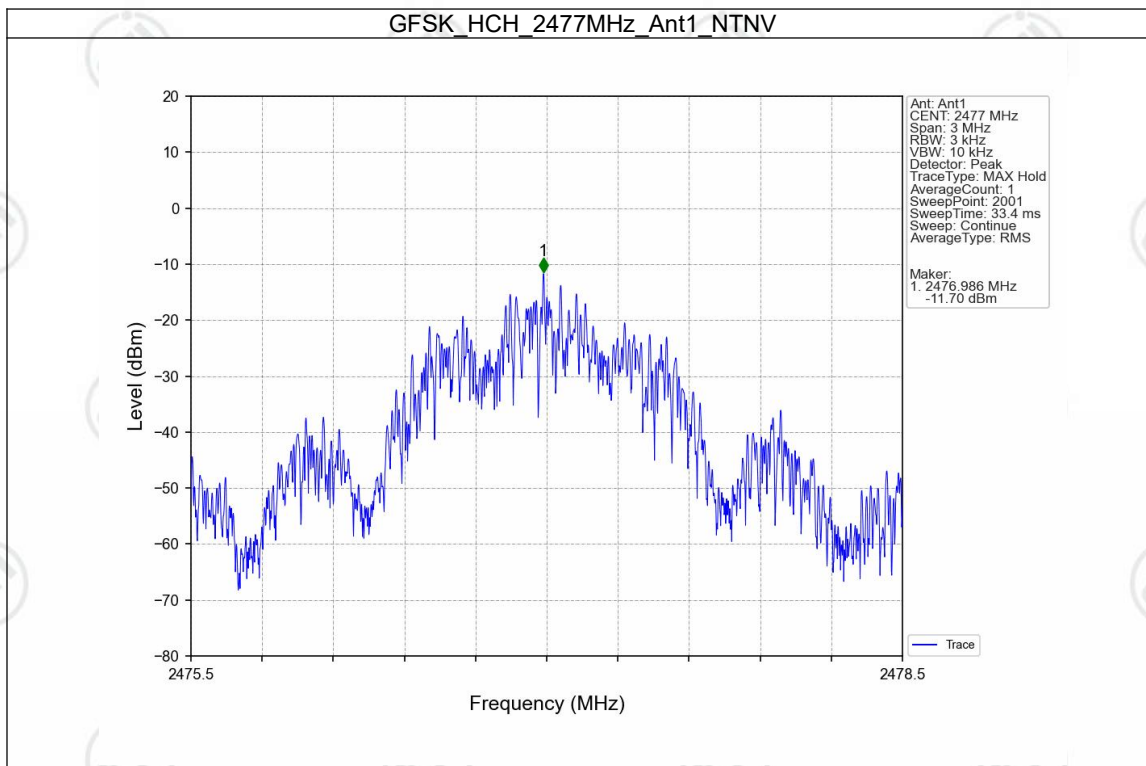
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit(dBm/3kHz)	
GFSK	SISO	2407	- 10.75dBm/3kHz	<=8	Pass
		2439	- 12.36dBm/3kHz	<=8	Pass
		2477	- 11.70dBm/3kHz	<=8	Pass
Note1: Antenna Gain: Ant1: -1.02dBi;					

4.2 Test Graph

4.2.1 PSD







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)
GFSK	SISO	2407	1	3.08
		2439	1	2.58
		2477	1	2.10

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2407	1	2.10	-17.90	Pass
		2439	1	2.10	-17.90	Pass
		2477	1	2.10	-17.90	Pass

5.2 Test Graph

5.2.1 Ref

