Appendix - EDR

Left:

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.754	/	Pass
		2441	DH5	1	0.758	/	Pass
		2480	DH5	1	0.750	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.176	/	Pass
		2441	2DH5	1	1.182	/	Pass
		2480	2DH5	1	1.179	/	Pass
8DPSK	SISO	2402	3DH5	1	1.196	/	Pass
		2441	3DH5	1	1.196	/	Pass
		2480	3DH5	1	1.190	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.864	/	Pass
		2441	DH5	1	0.856	/	Pass
		2480	DH5	1	0.850	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.325	/	Pass
		2441	2DH5	1	1.332	/	Pass
		2480	2DH5	1	1.334	/	Pass
8DPSK	SISO	2402	3DH5	1	1.325	/	Pass
		2441	3DH5	1	1.316	/	Pass
		2480	3DH5	1	1.325	/	Pass

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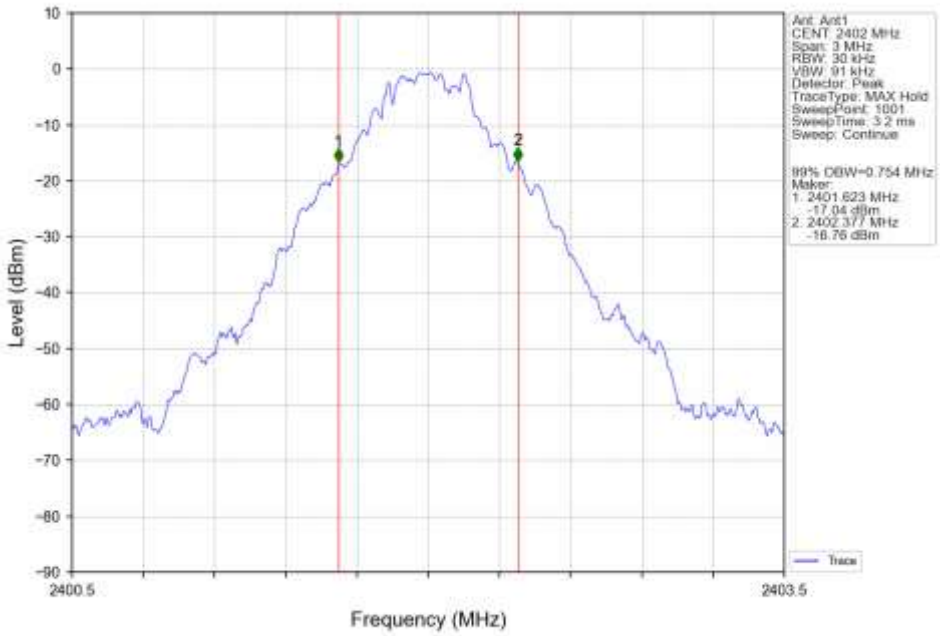
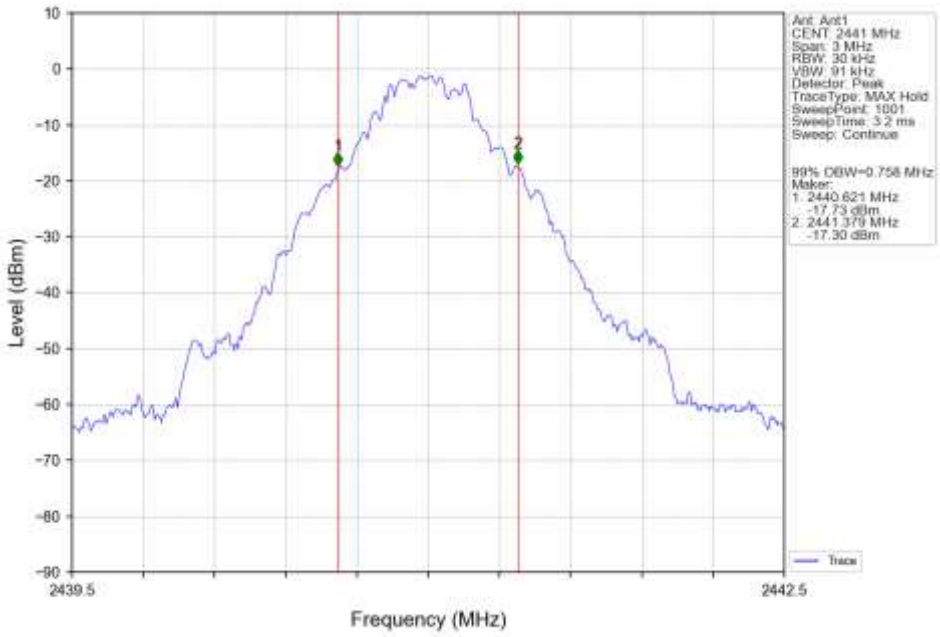
1.2 Test Graph

1.2.1 OBW

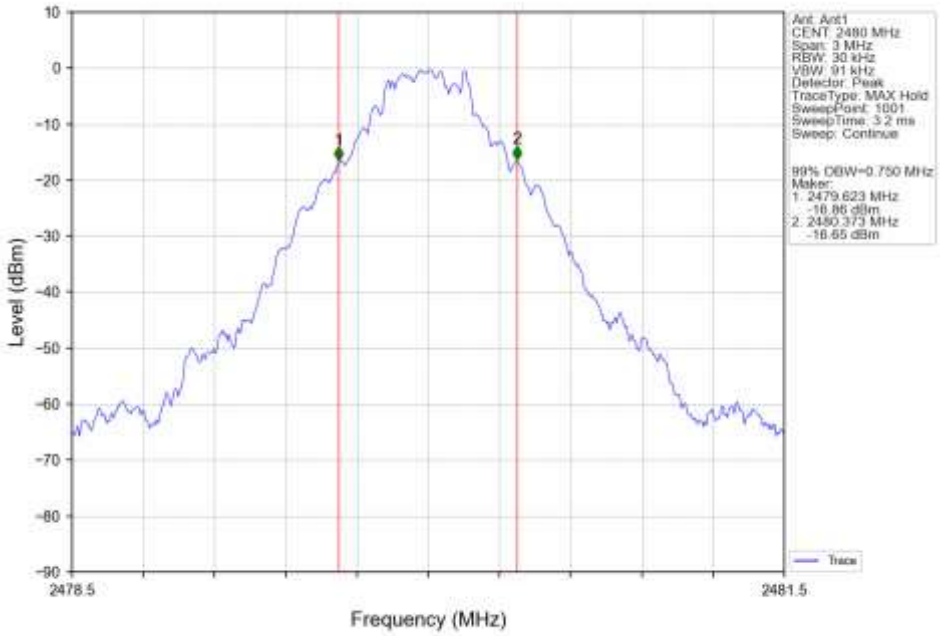
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



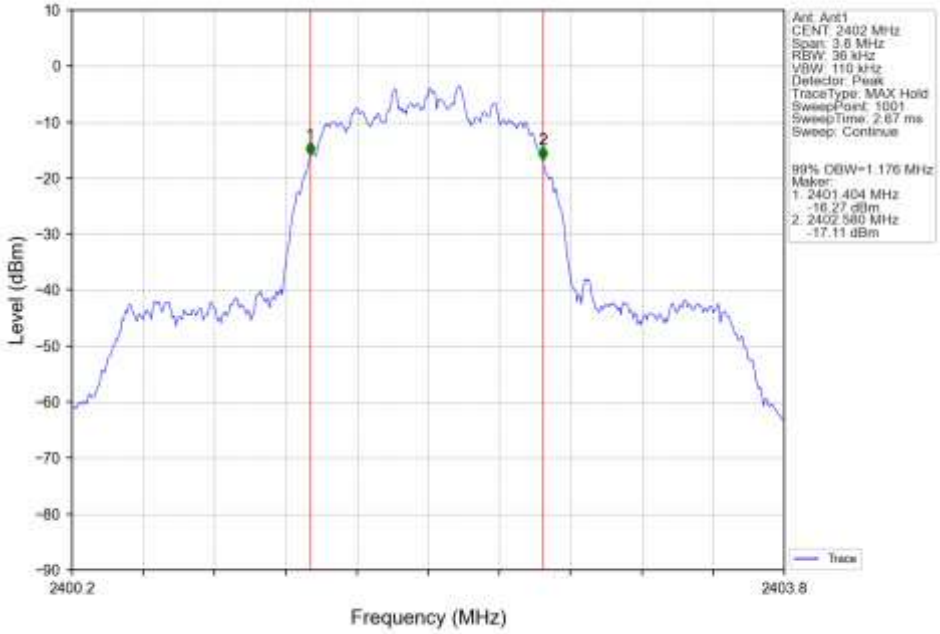
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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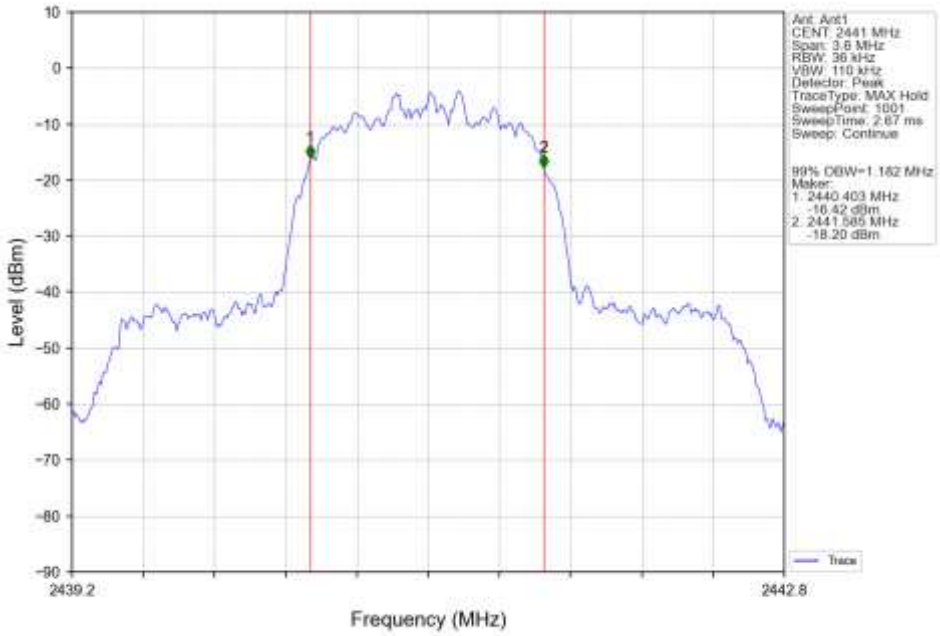

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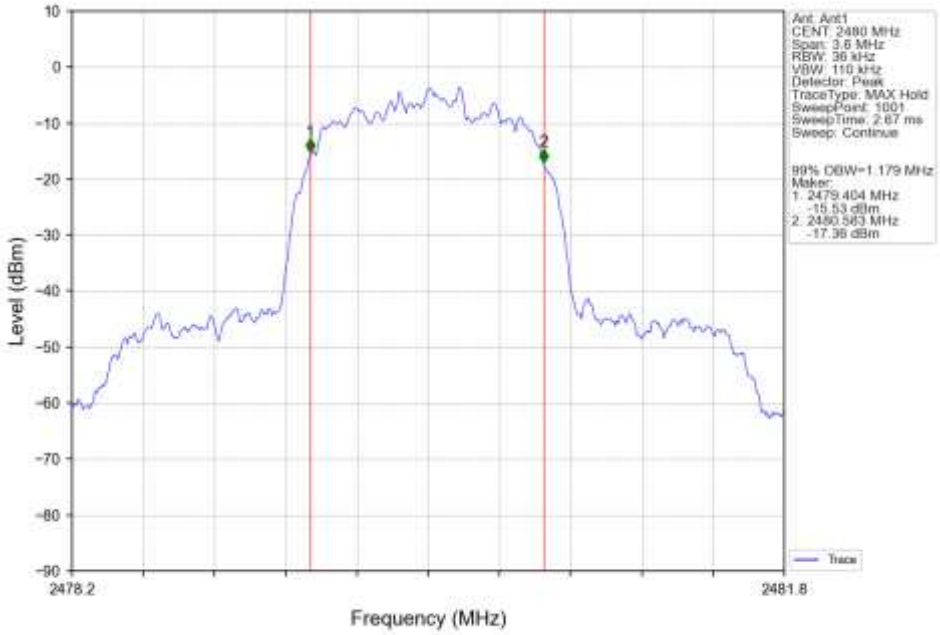
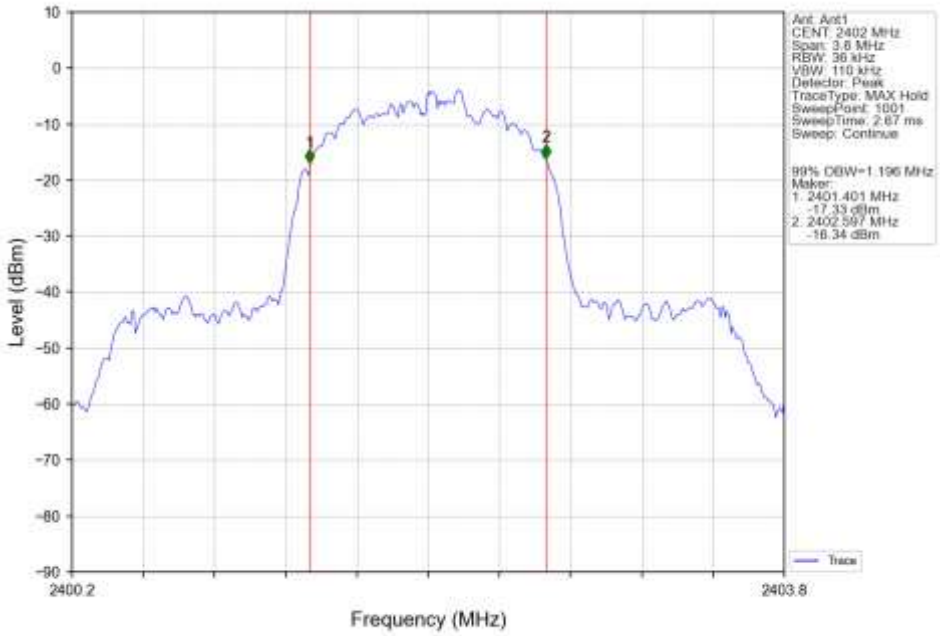


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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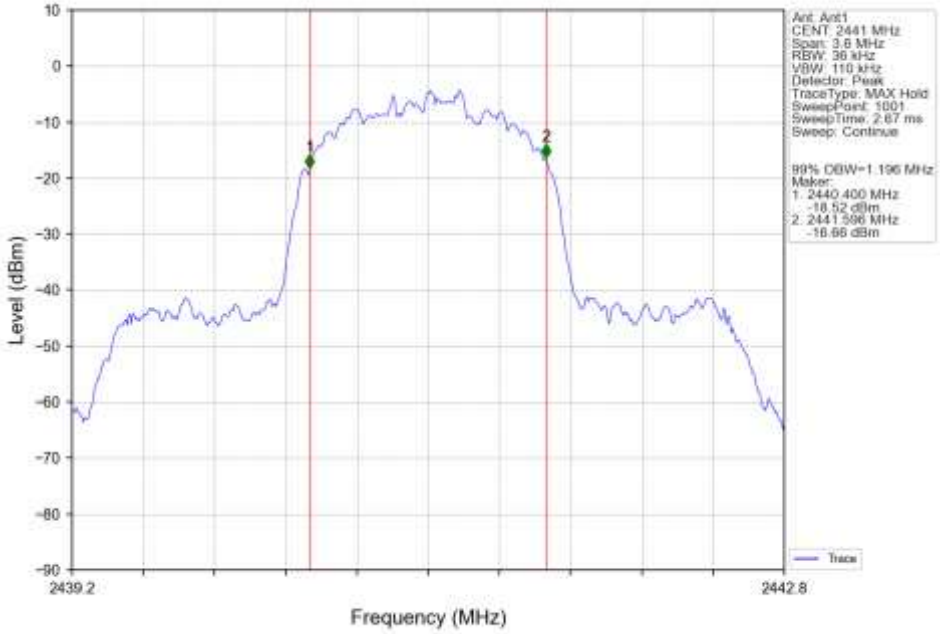

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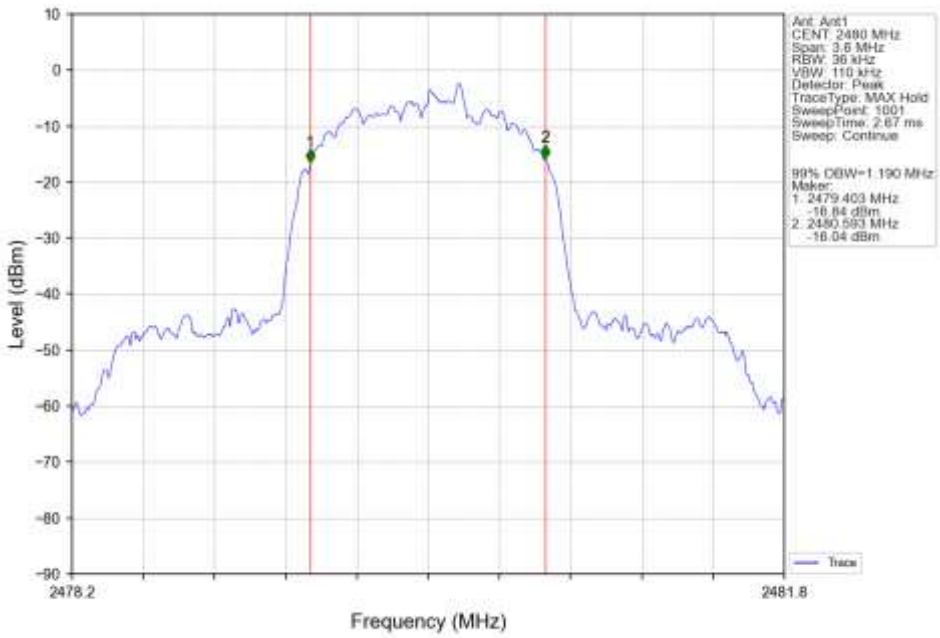
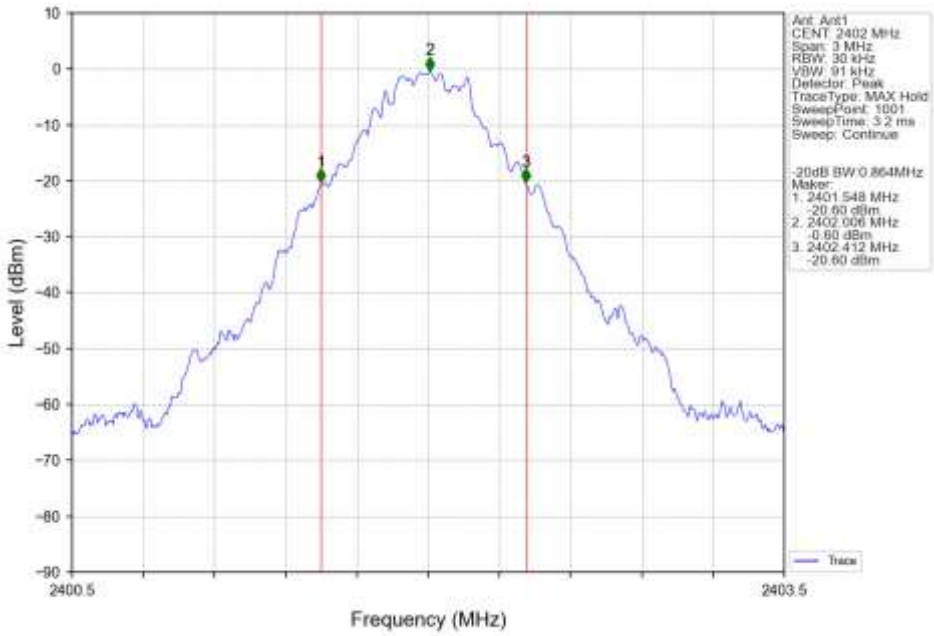
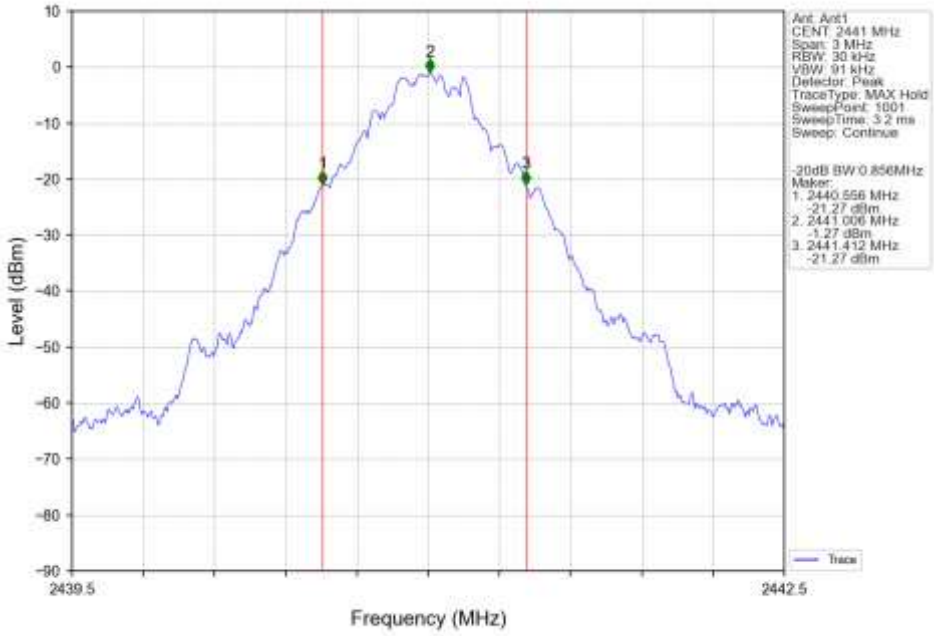


1.2.2 20dB BW

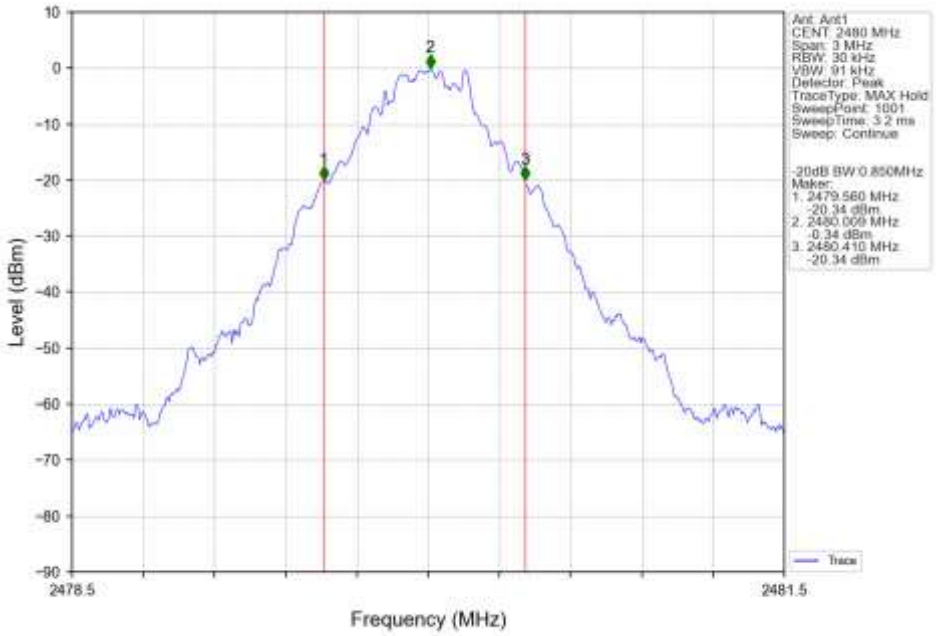
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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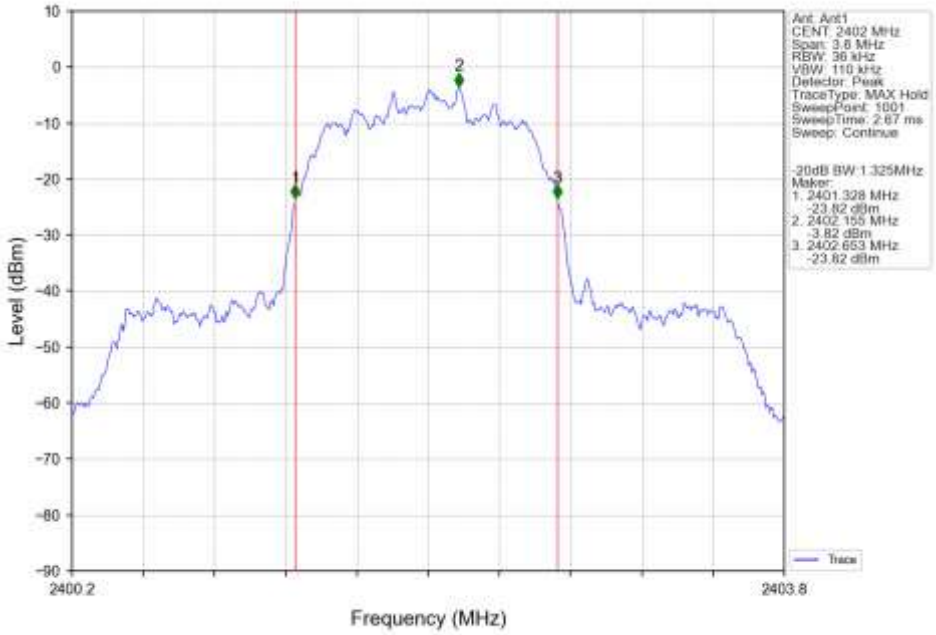
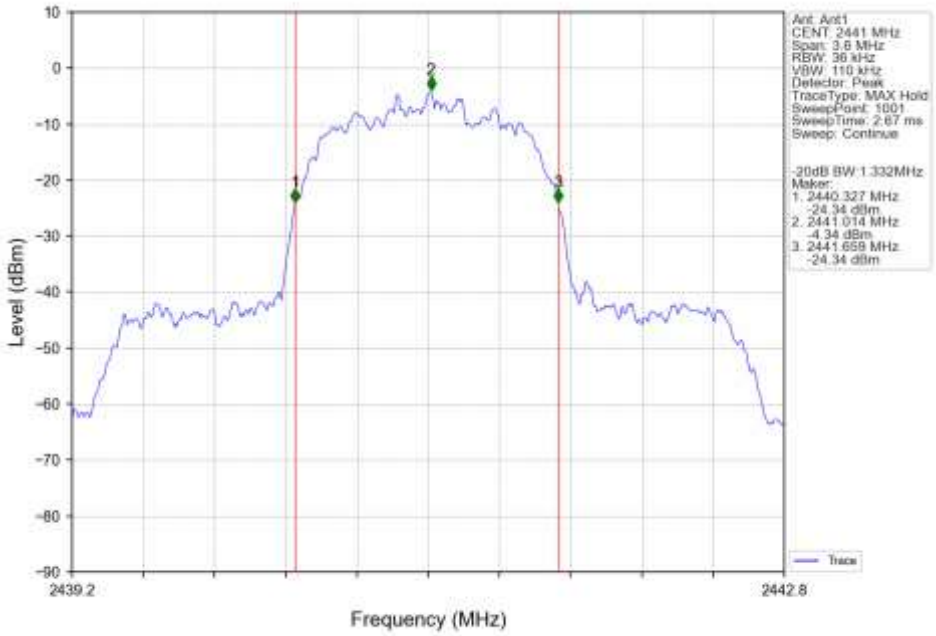
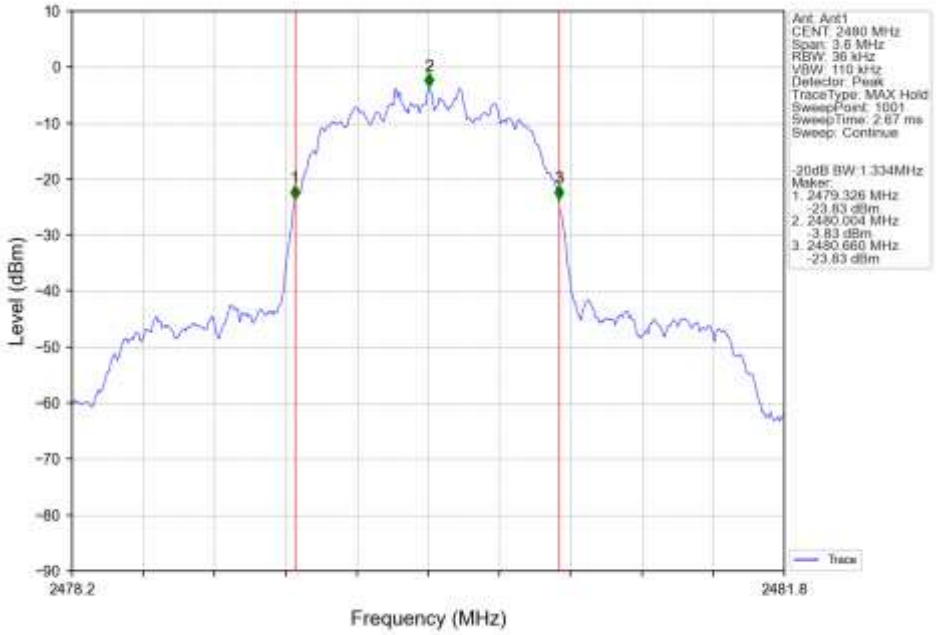


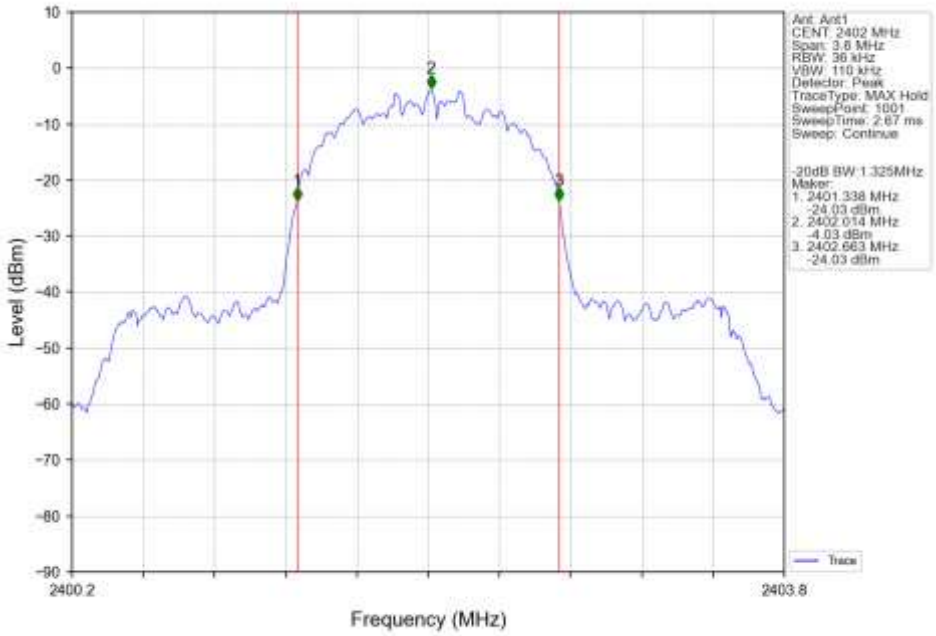
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



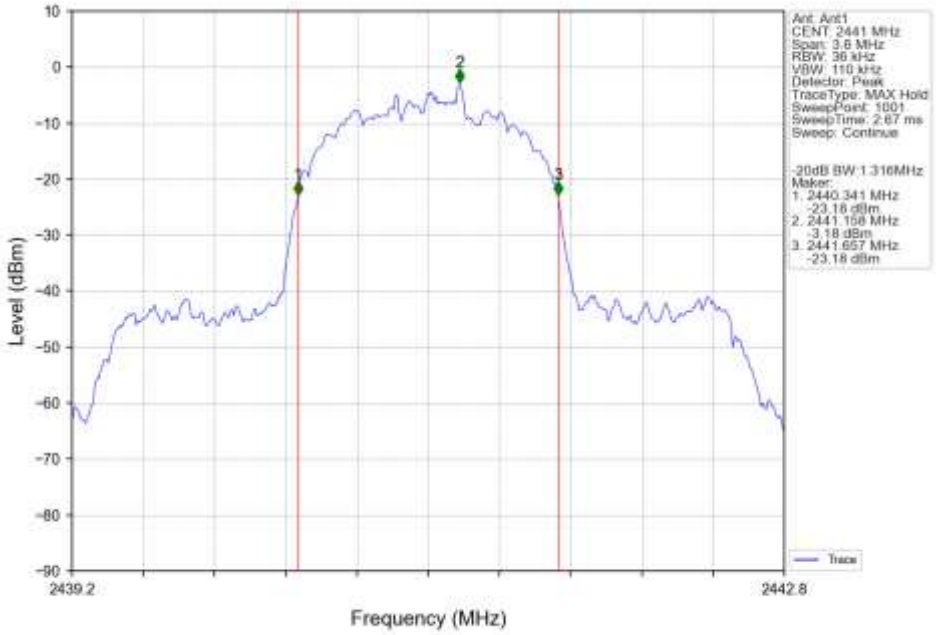
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



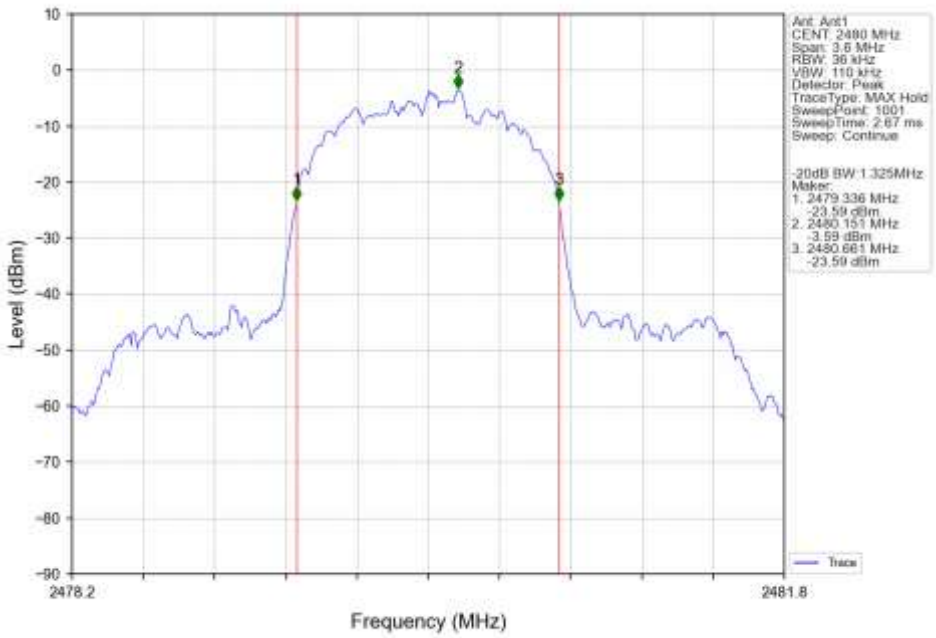
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.77	<=30	Pass
		2441	DH5	1.16	<=30	Pass
		2480	DH5	1.94	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.32	<=20.97	Pass
		2441	2DH5	0.75	<=20.97	Pass
		2480	2DH5	1.62	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.60	<=20.97	Pass
		2441	3DH5	1.10	<=20.97	Pass
		2480	3DH5	2.03	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.70dBi;						

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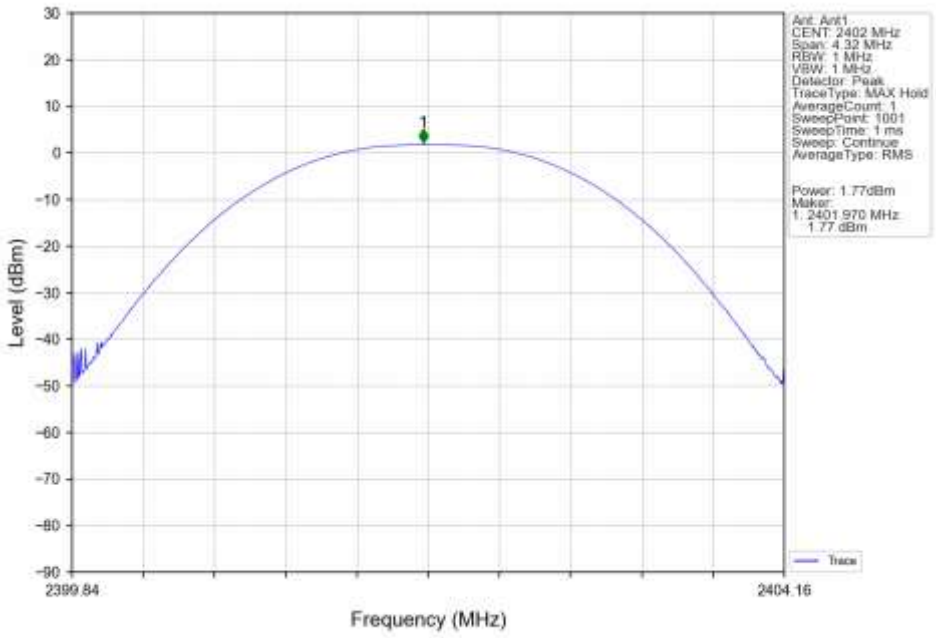
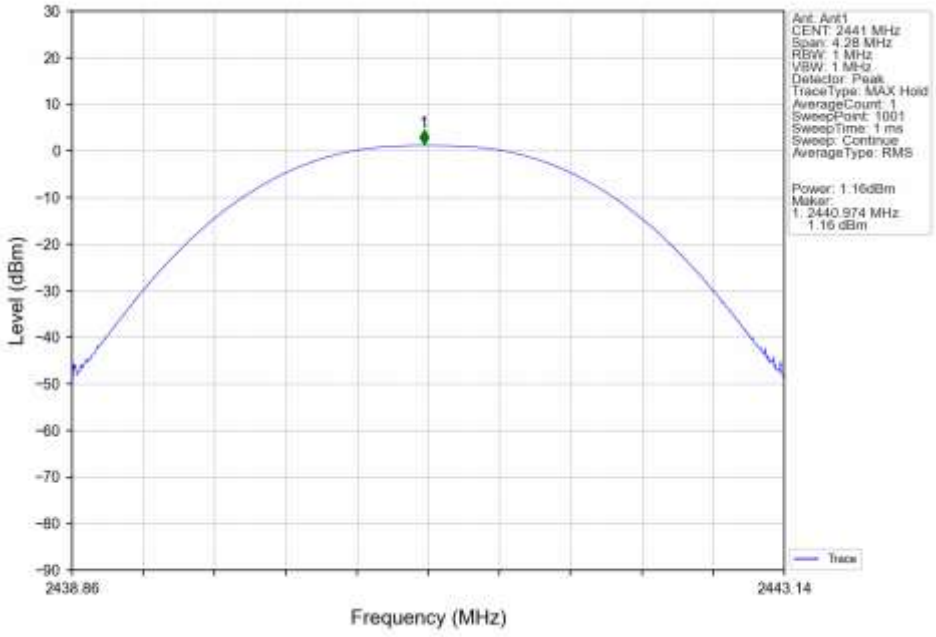
2.2 Test Graph

2.2.1 Power

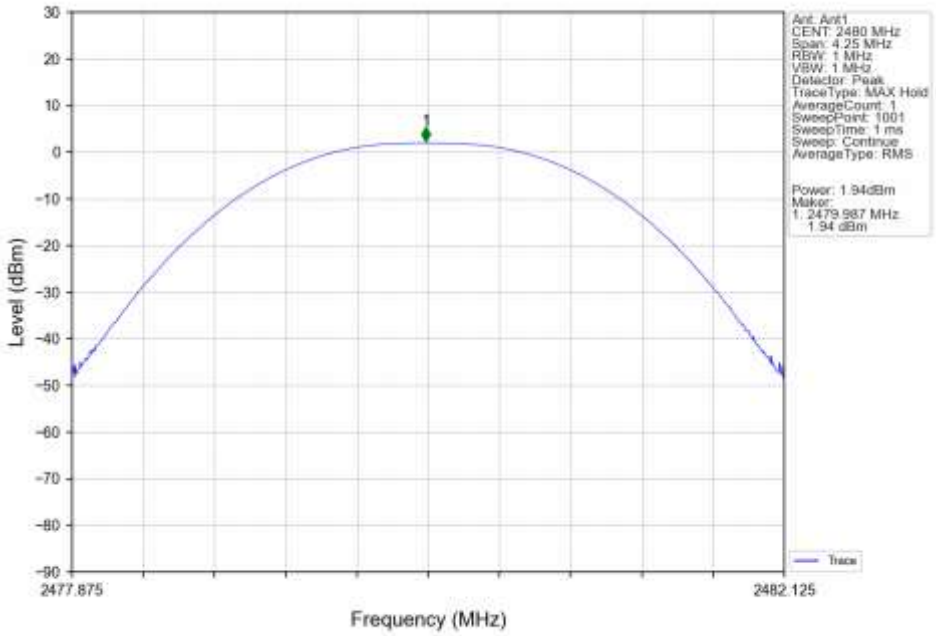
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



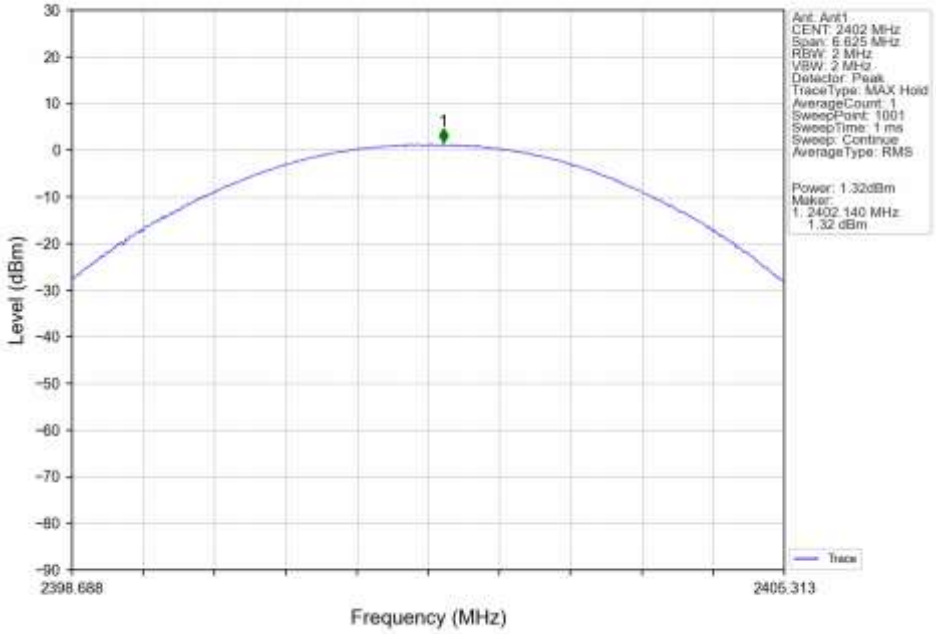
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



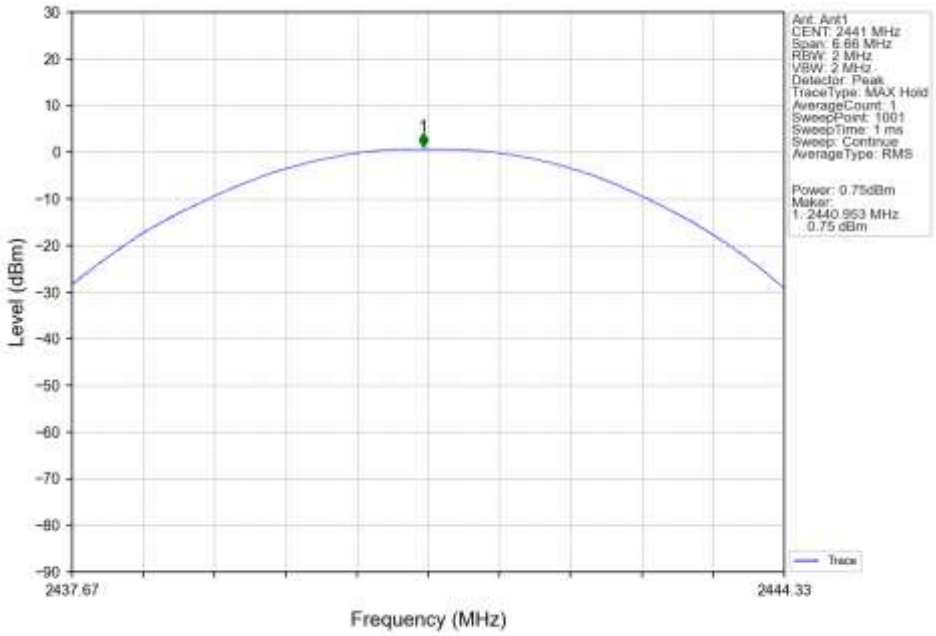
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



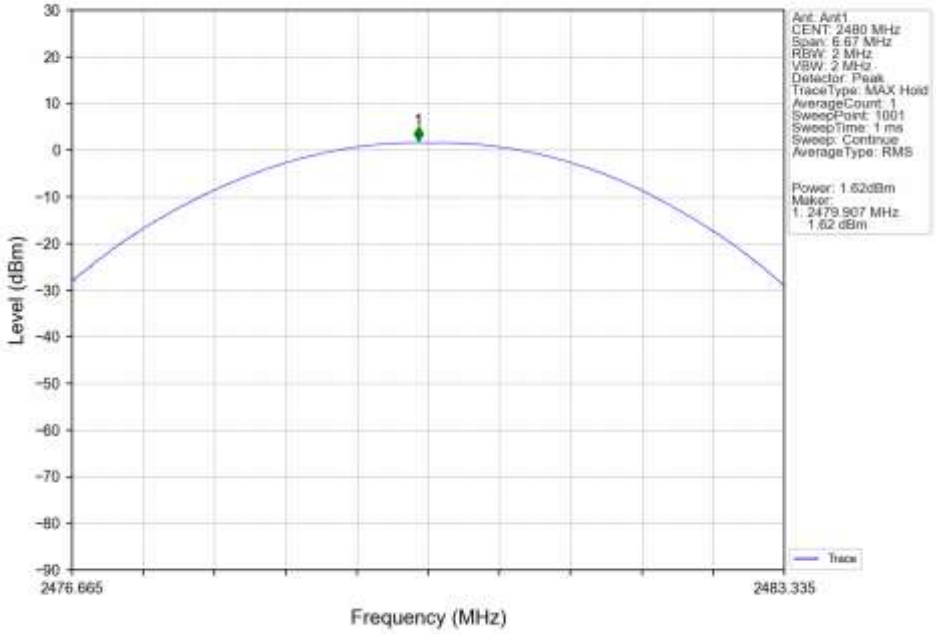
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



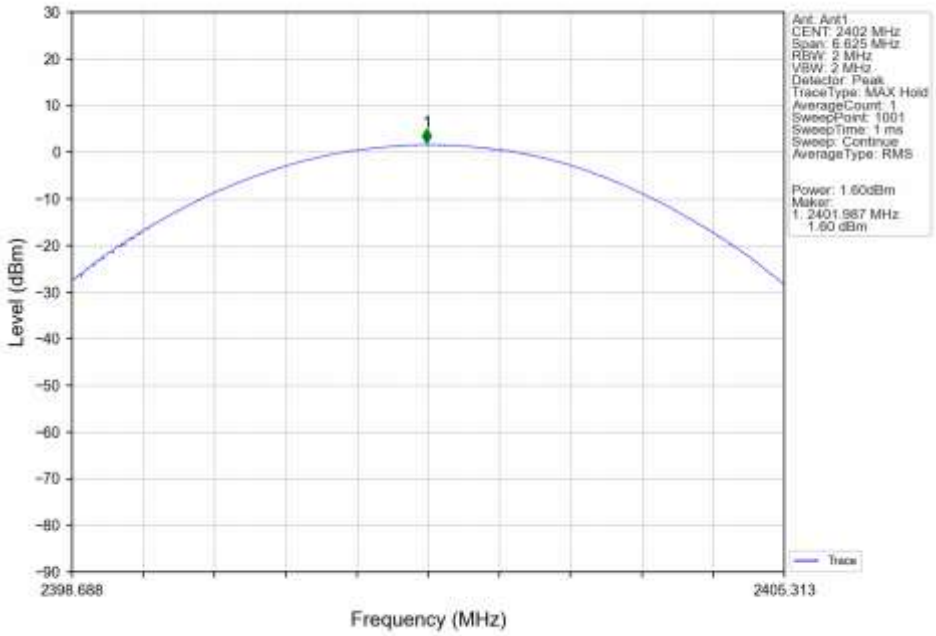
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



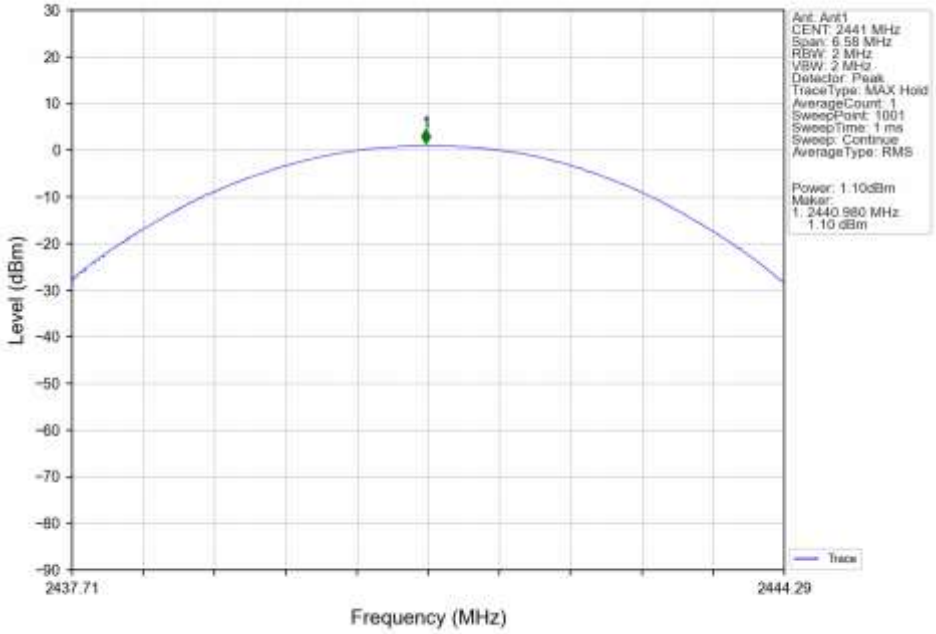
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



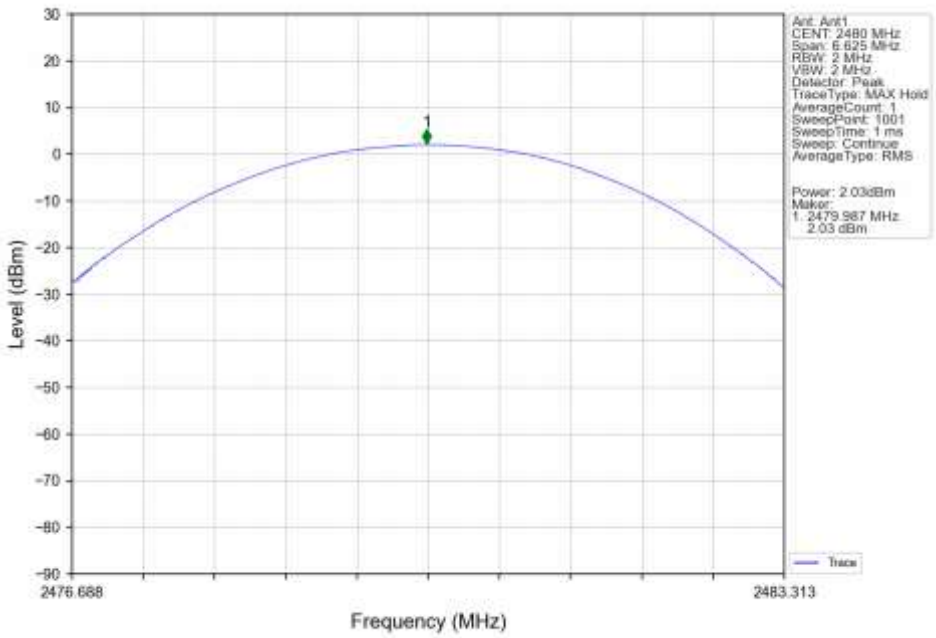
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.986	0.864	>=0.864	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.334	>=0.889	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.325	>=0.883	Pass

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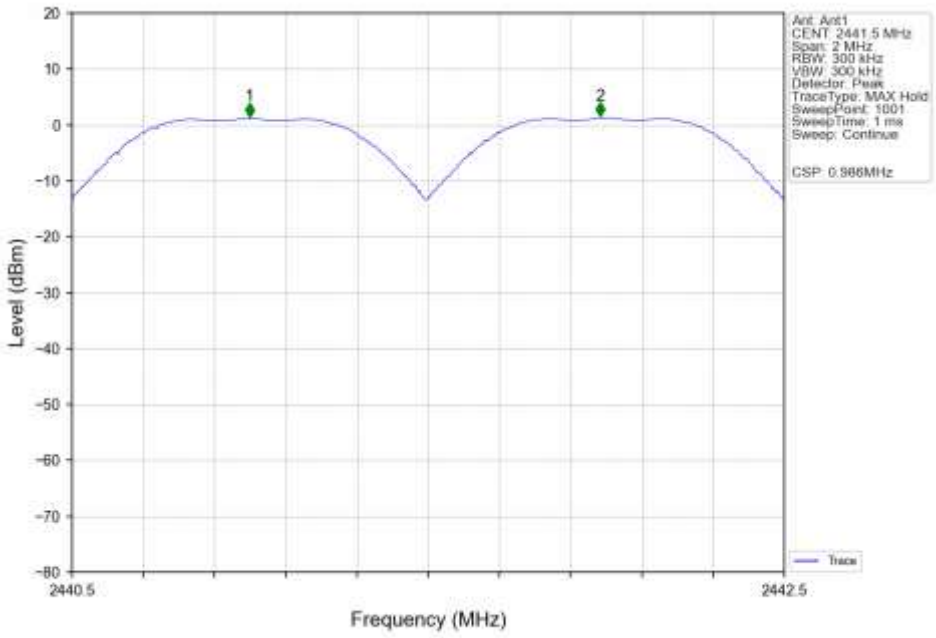
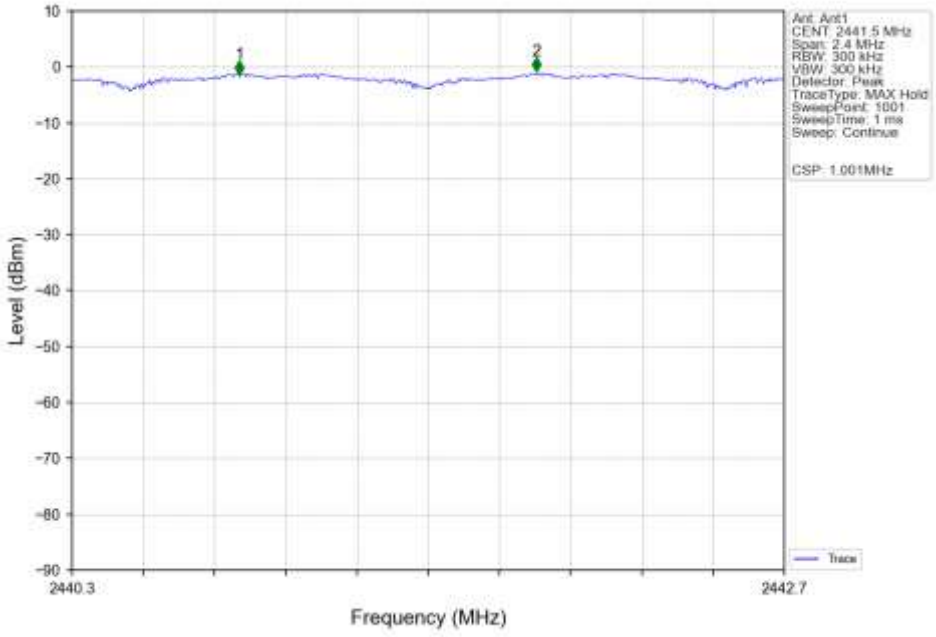
3.2 Test Graph

3.2.1 Ant1

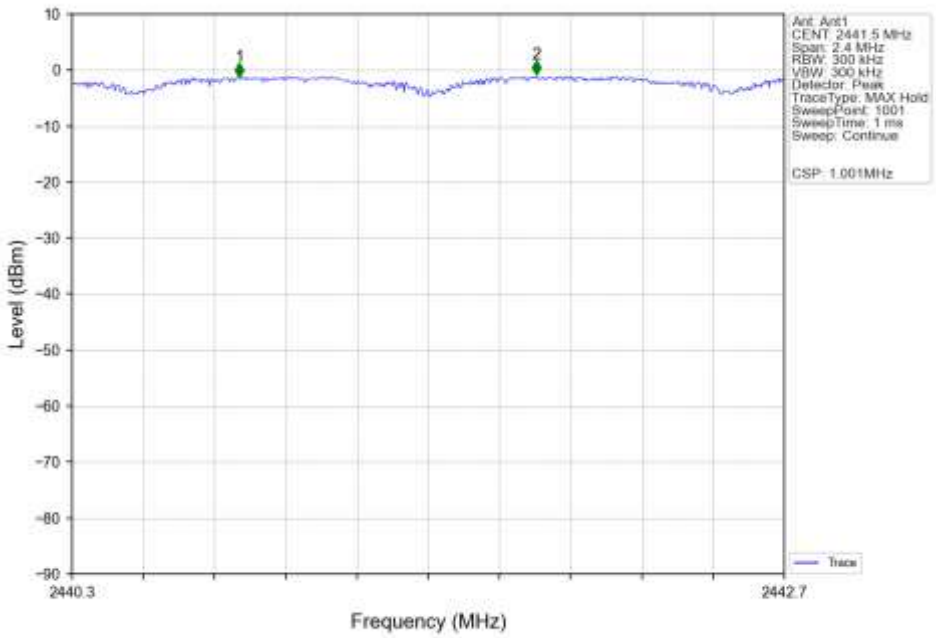
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

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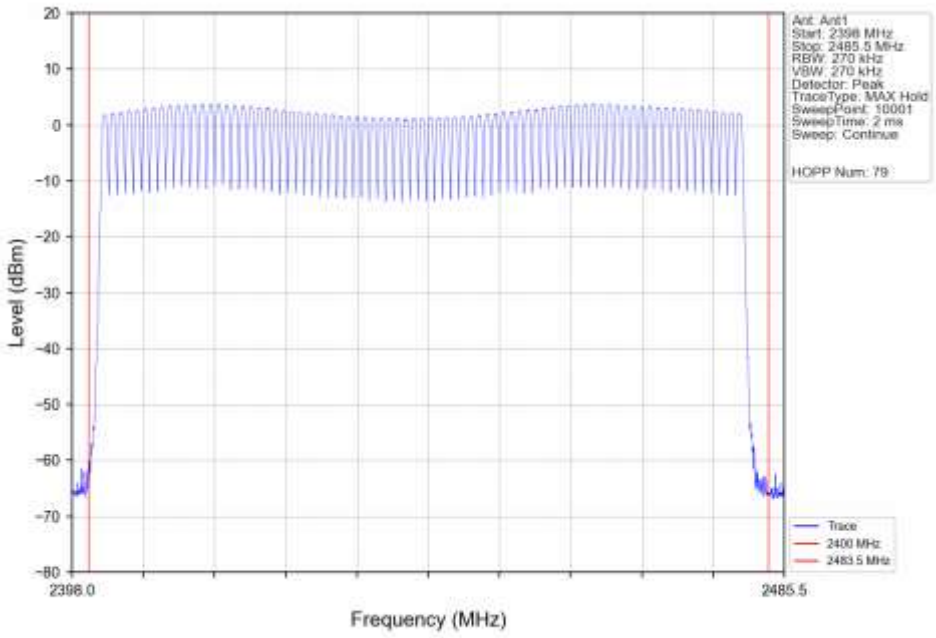
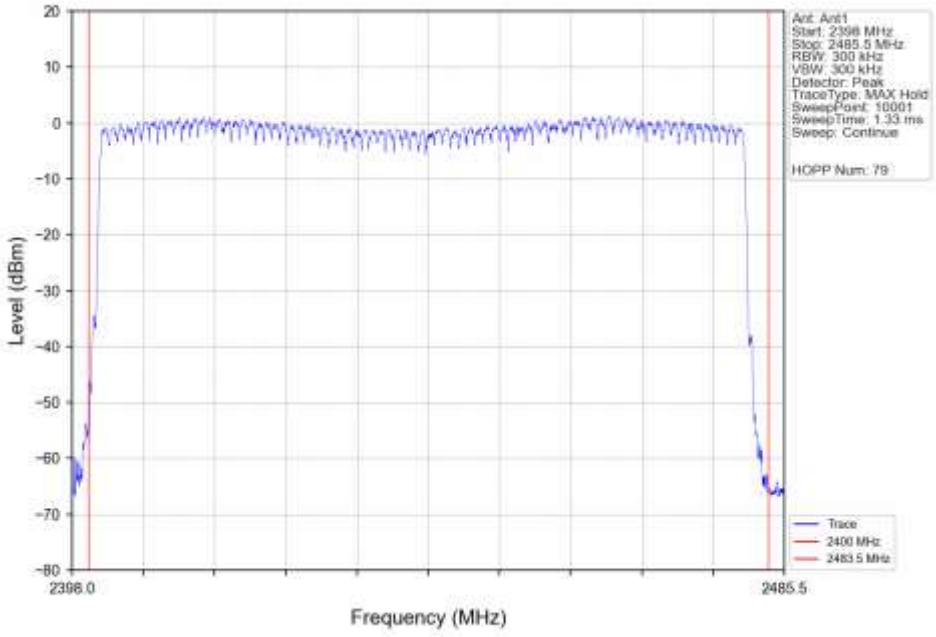
4.2 Test Graph

4.2.1 HoppNum

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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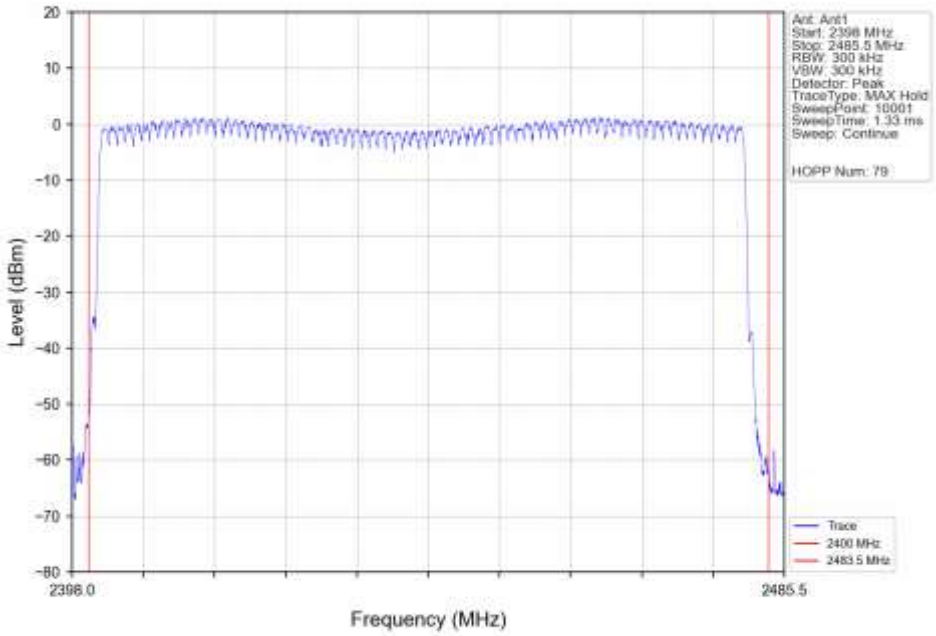

5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.380	31.600	320	121.600	<=400	Pass
			DH3	1.636	31.600	154	251.944	<=400	Pass
			DH5	2.884	31.600	98	282.632	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.386	31.600	320	123.520	<=400	Pass
			2DH3	1.654	31.600	156	258.024	<=400	Pass
			2DH5	2.902	31.600	111	322.122	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	321	124.548	<=400	Pass
			3DH3	1.652	31.600	162	267.624	<=400	Pass
			3DH5	2.902	31.600	112	325.024	<=400	Pass

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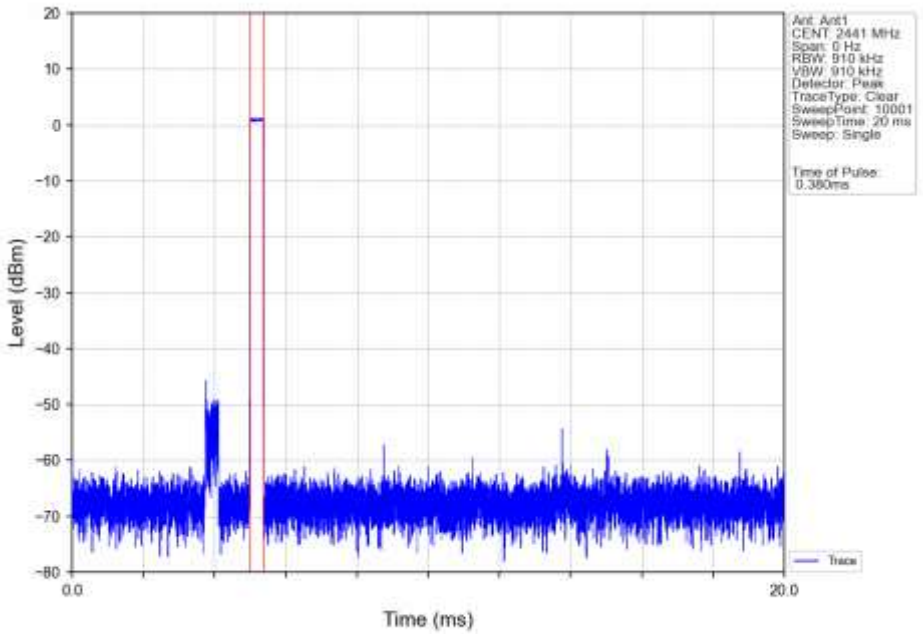
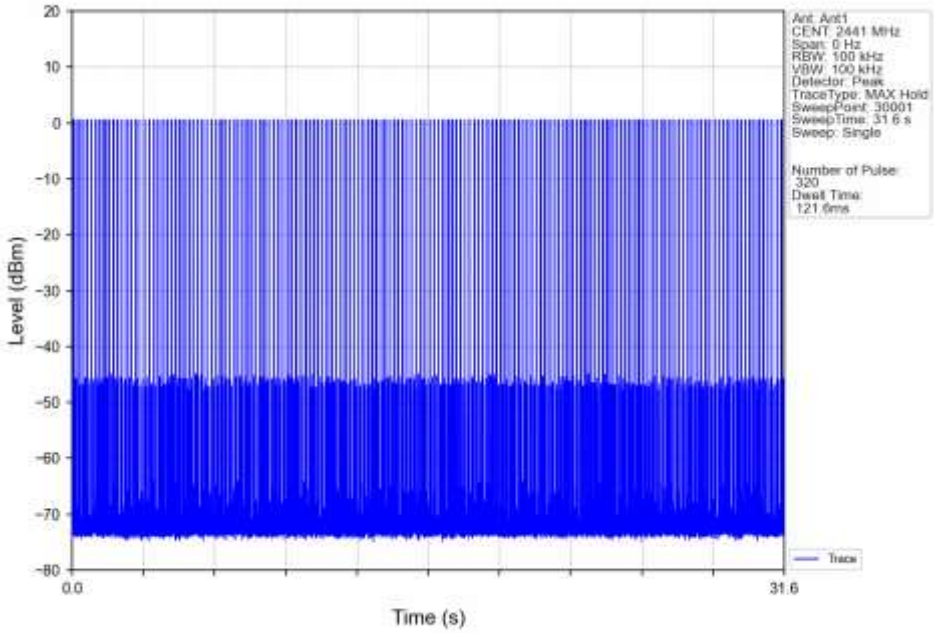
5.2 Test Graph

5.2.1 Ant1

GFSK_DH1_HOPP_Ant1_NTNV



GFSK_DH1_HOPP_Ant1_NTNV



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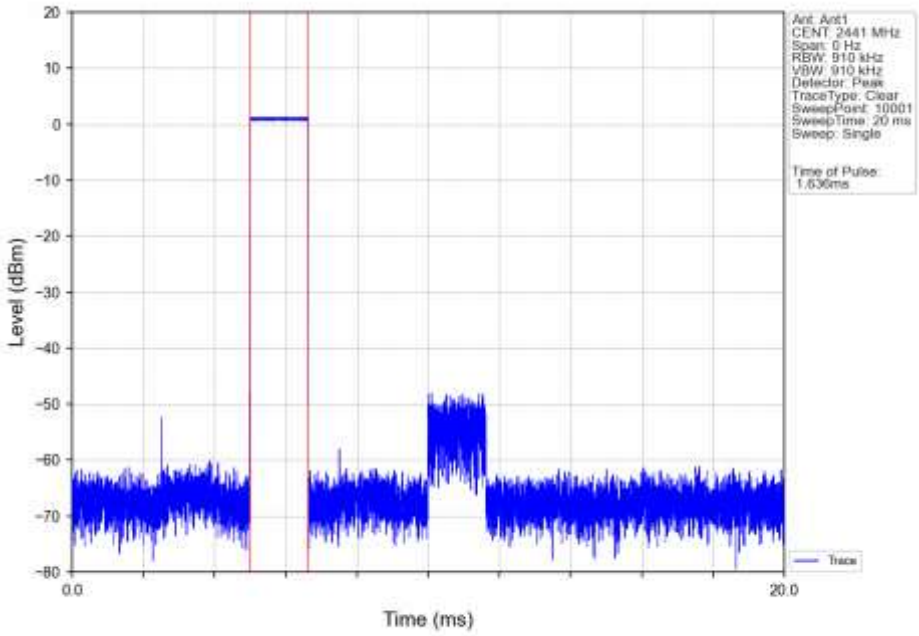

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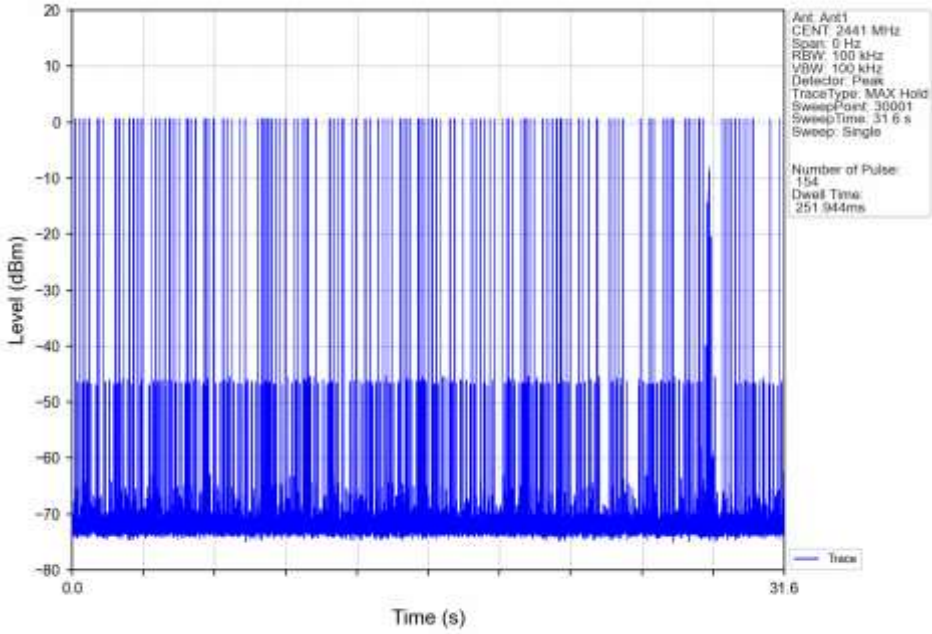
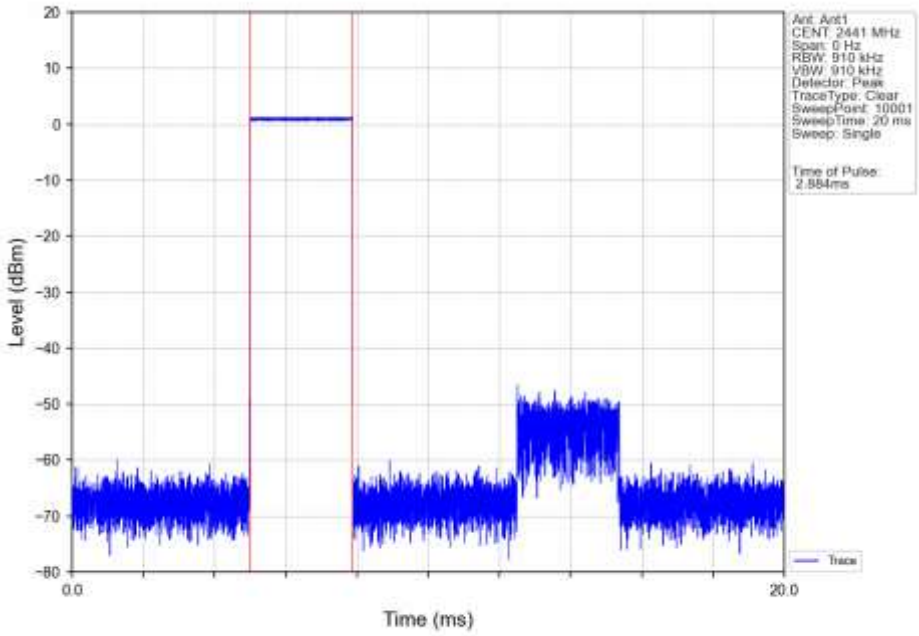


GFSK_DH5_HOPP_Ant1_NTNV



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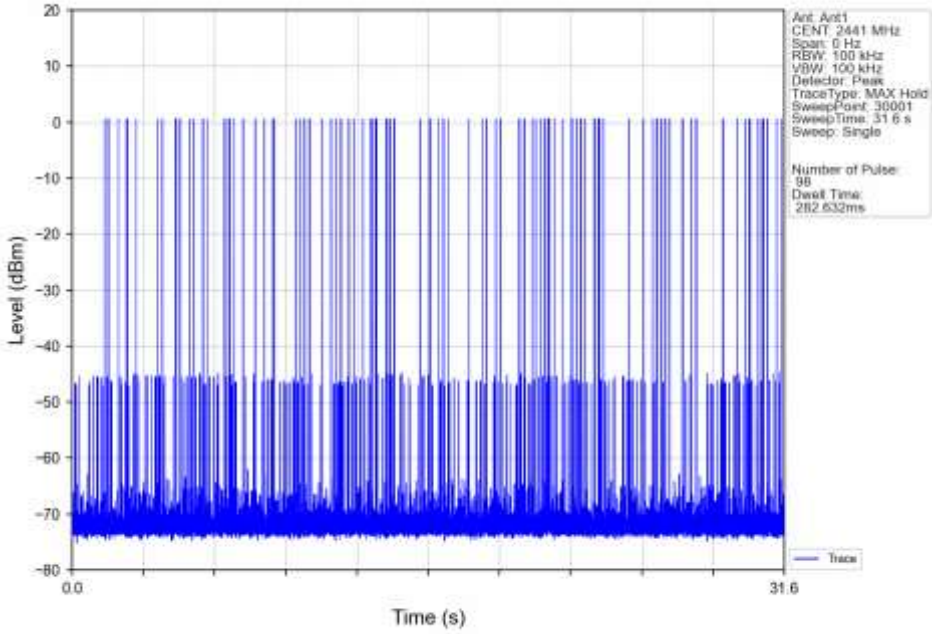

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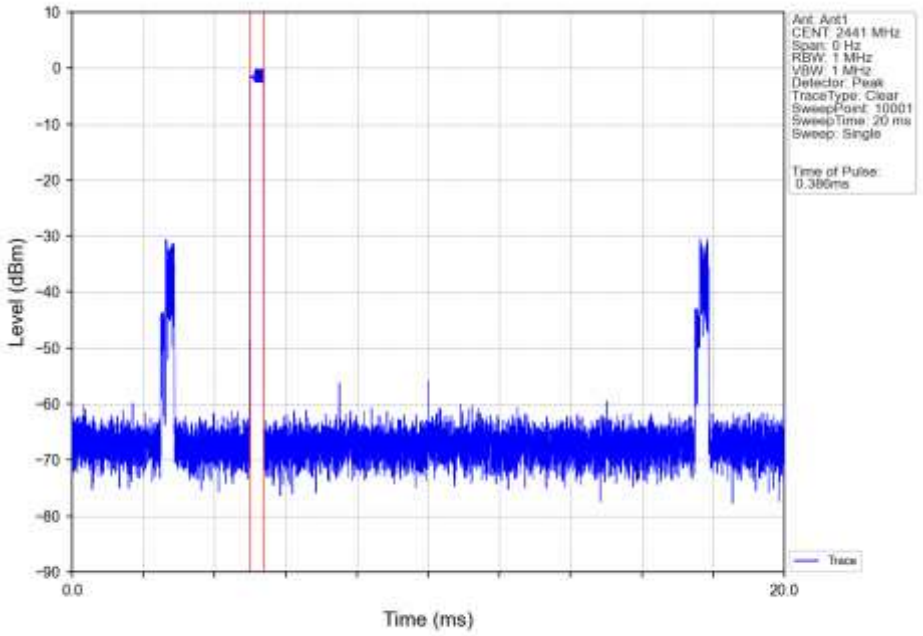

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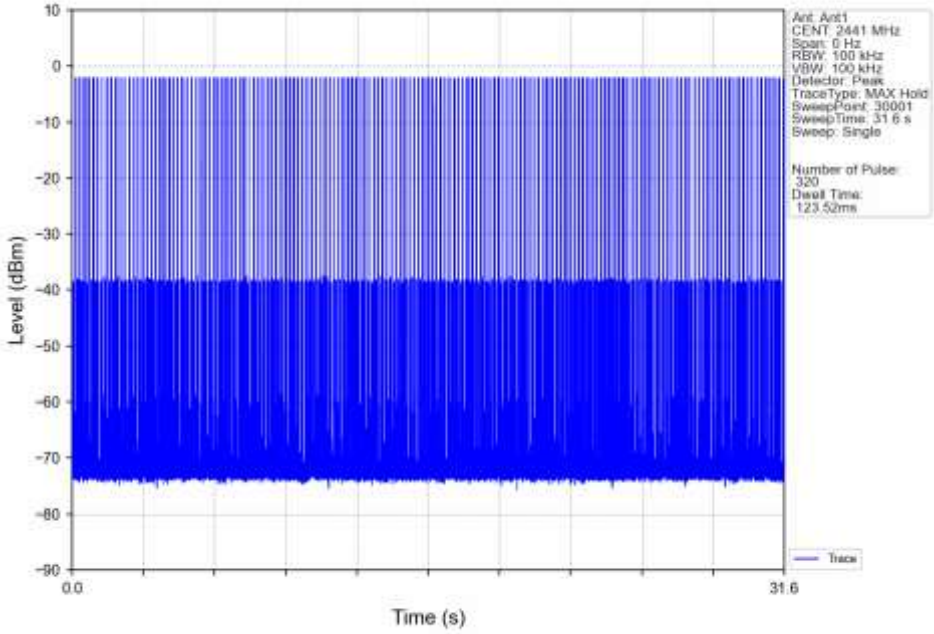

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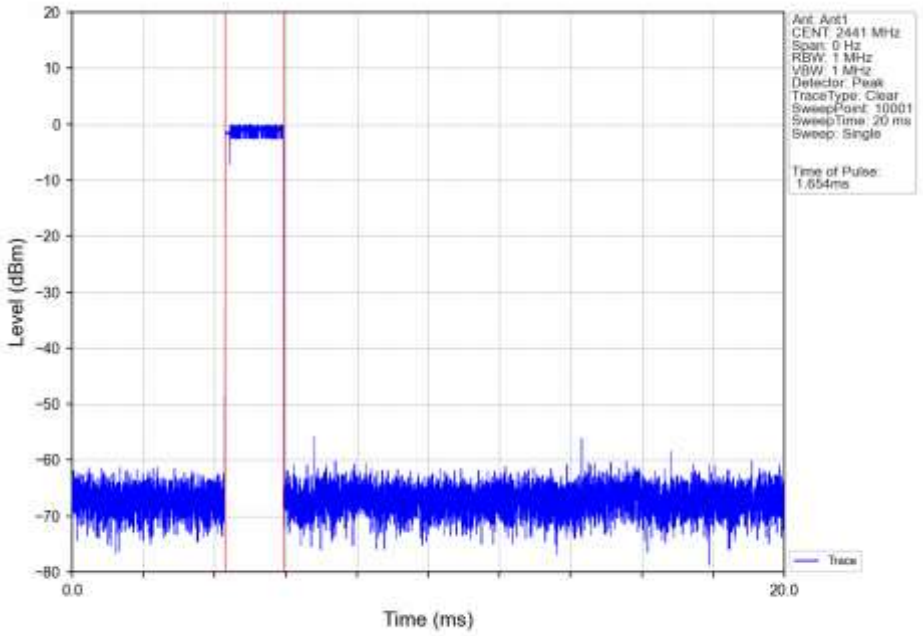

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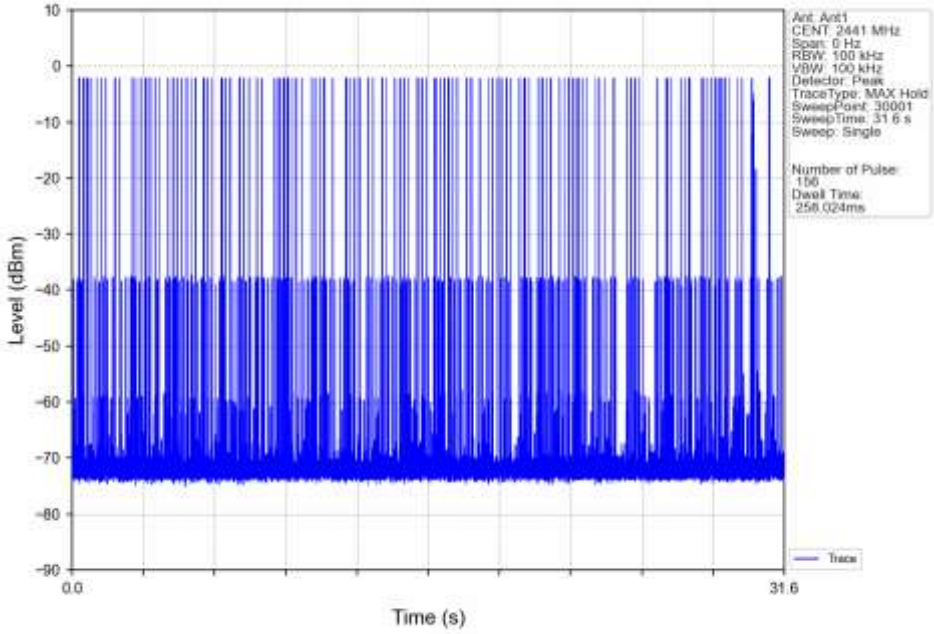

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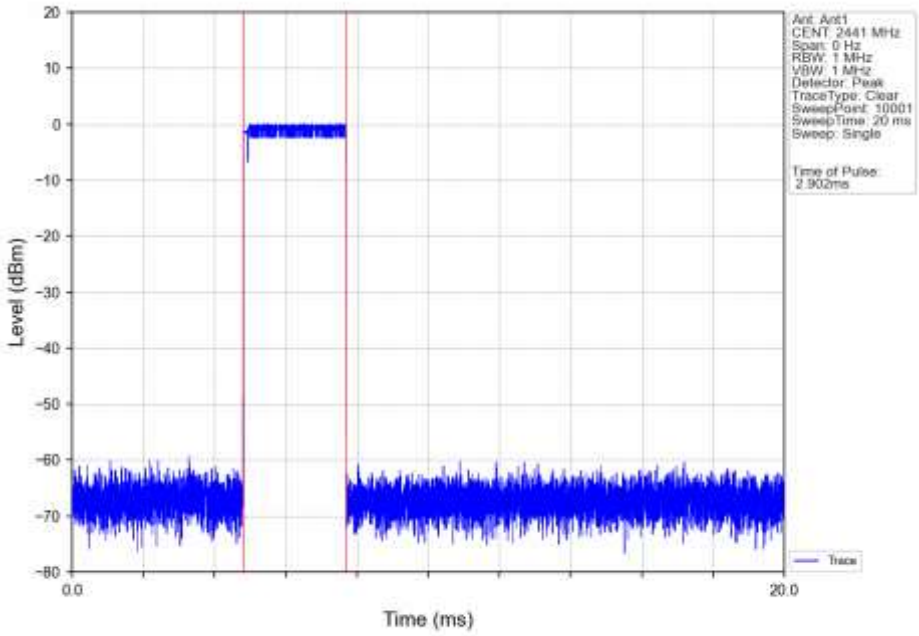

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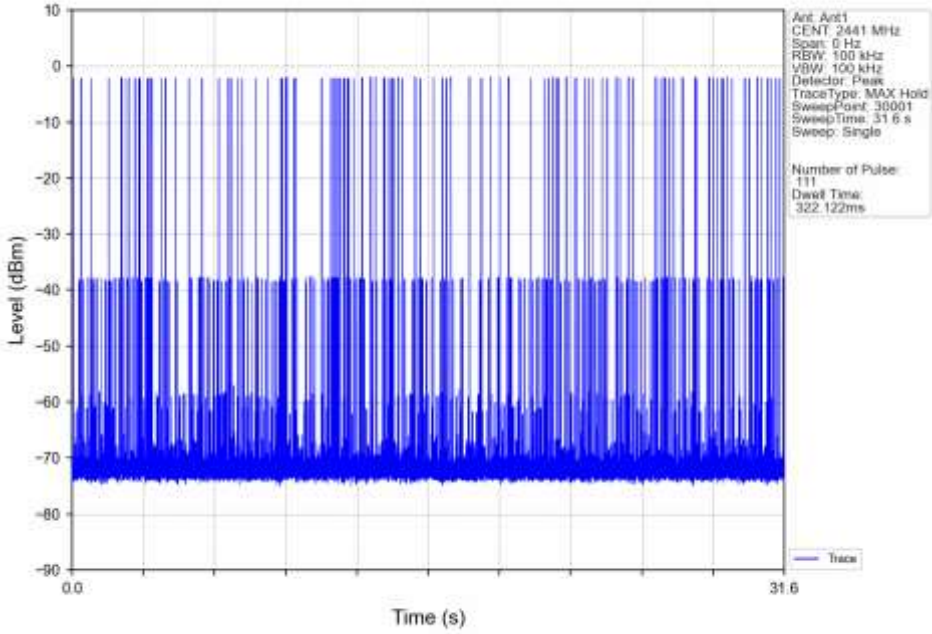

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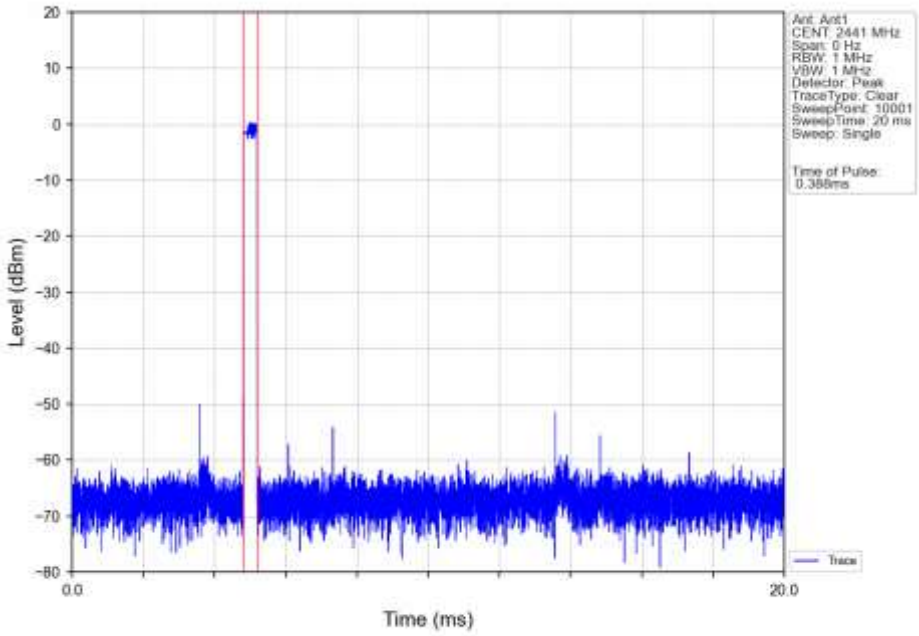

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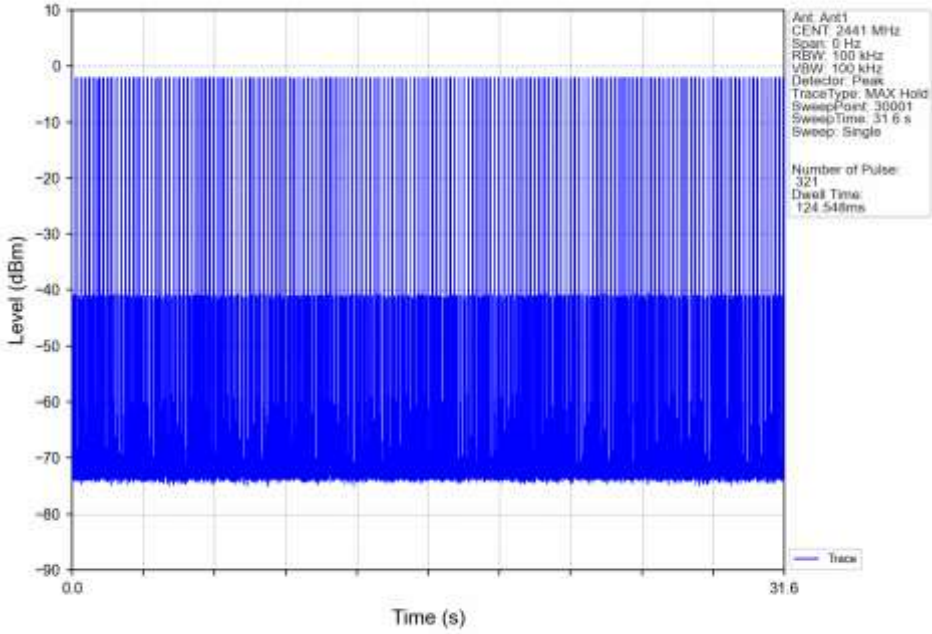

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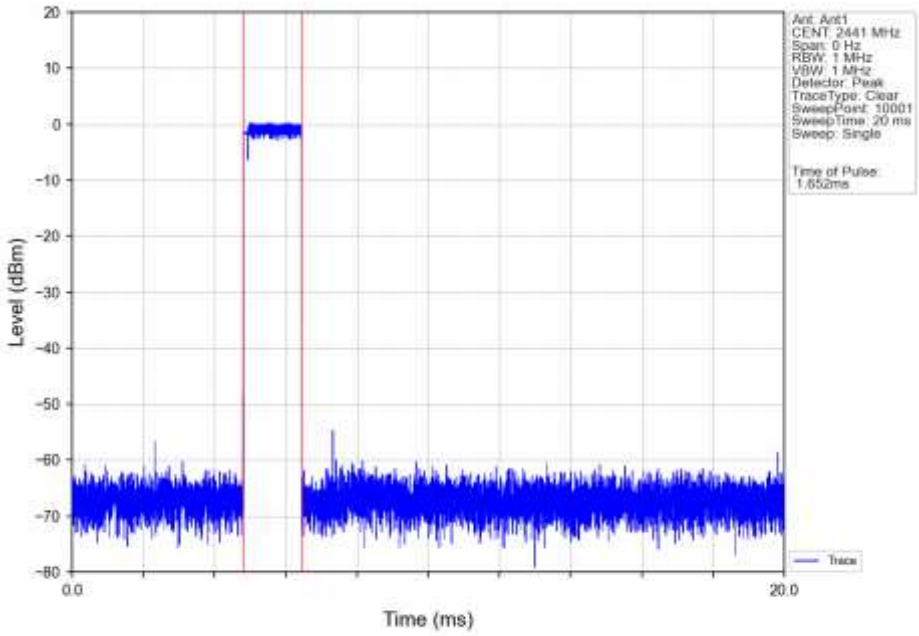

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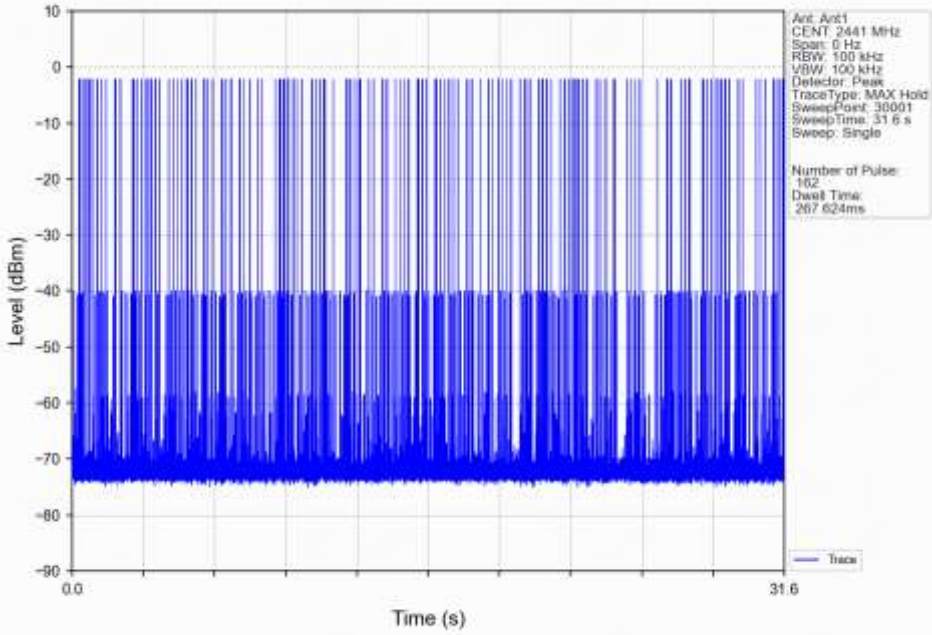

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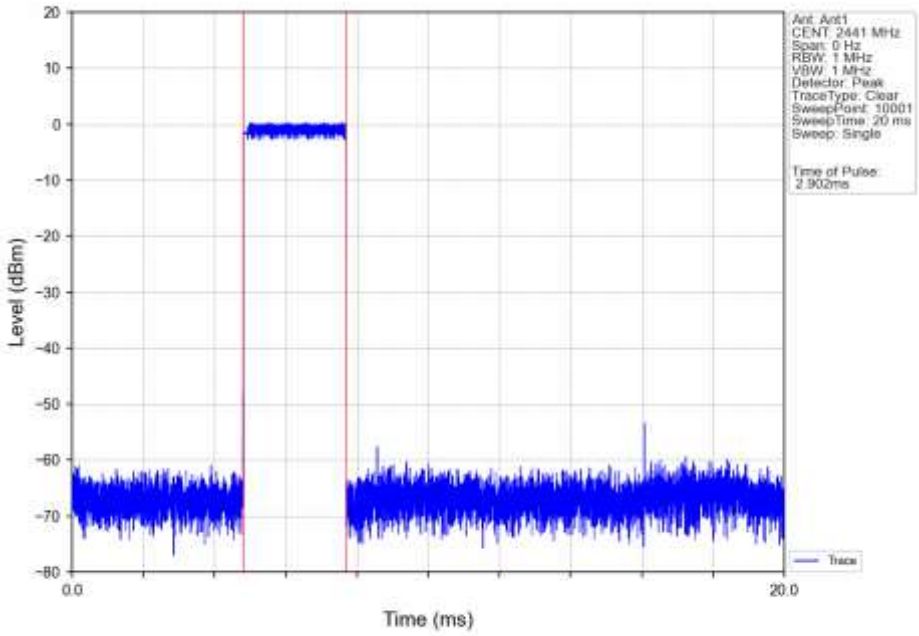

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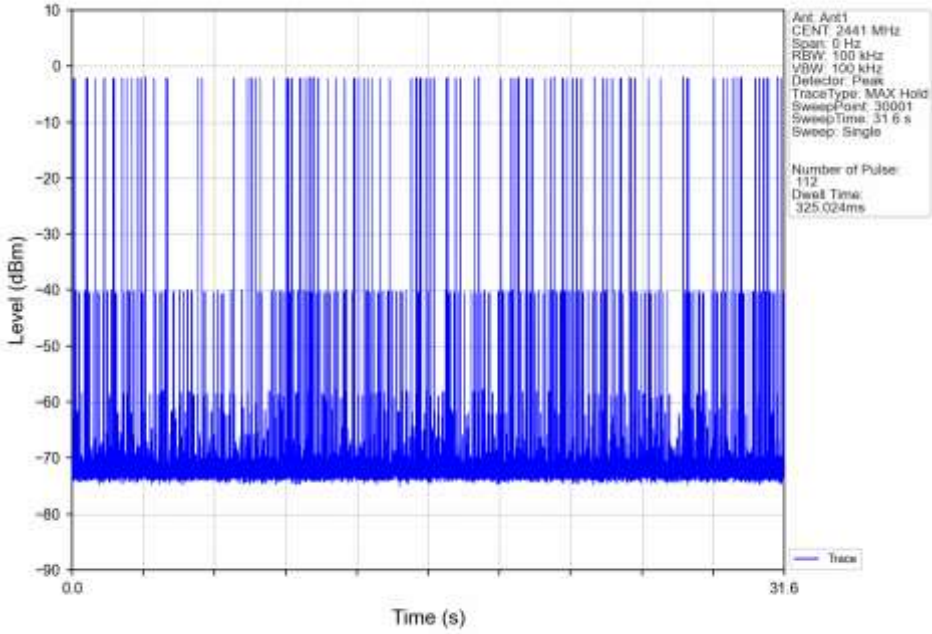

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.38
		2441	DH5	1	1.17
		2480	DH5	1	3.11
Pi/4DQPSK	SISO	2402	2DH5	1	1.96
		2441	2DH5	1	-0.11
		2480	2DH5	1	1.78
8DPSK	SISO	2402	3DH5	1	2.23
		2441	3DH5	1	0.17
		2480	3DH5	1	1.90
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.					

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.38	-16.62	Pass
		2441	DH5	1	1.17	-18.83	Pass
		2480	DH5	1	3.11	-16.89	Pass
		HOPP	DH5	1	3.38	-16.62	Pass
					3.38	-16.62	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.96	-18.04	Pass
		2441	2DH5	1	-0.11	-20.11	Pass
		2480	2DH5	1	1.78	-18.22	Pass
		HOPP	2DH5	1	1.96	-18.04	Pass
					1.96	-18.04	Pass
8DPSK	SISO	2402	3DH5	1	2.23	-17.77	Pass
		2441	3DH5	1	0.17	-19.83	Pass
		2480	3DH5	1	1.9	-18.1	Pass
		HOPP	3DH5	1	2.23	-17.77	Pass
					2.23	-17.77	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.							

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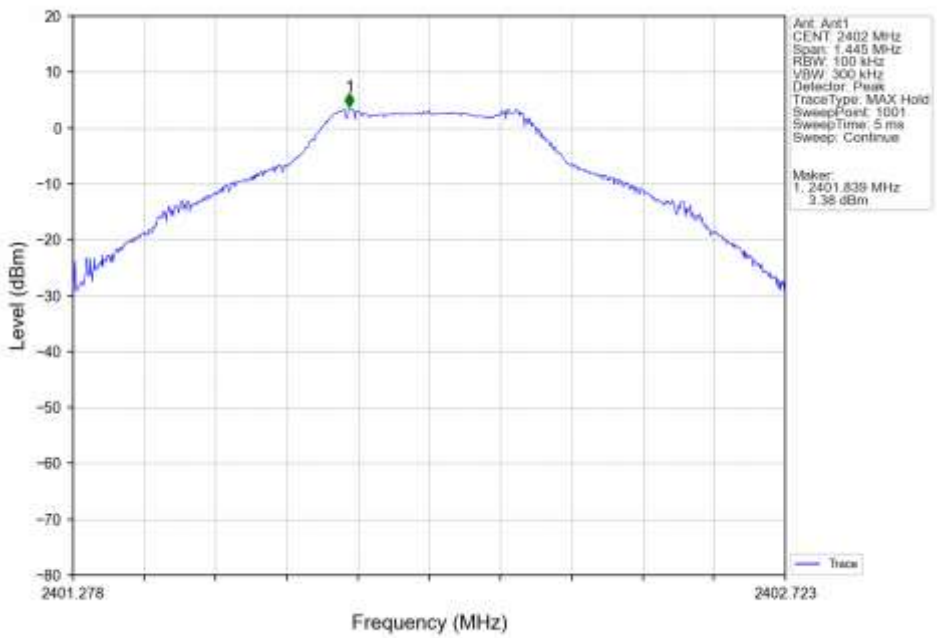
BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

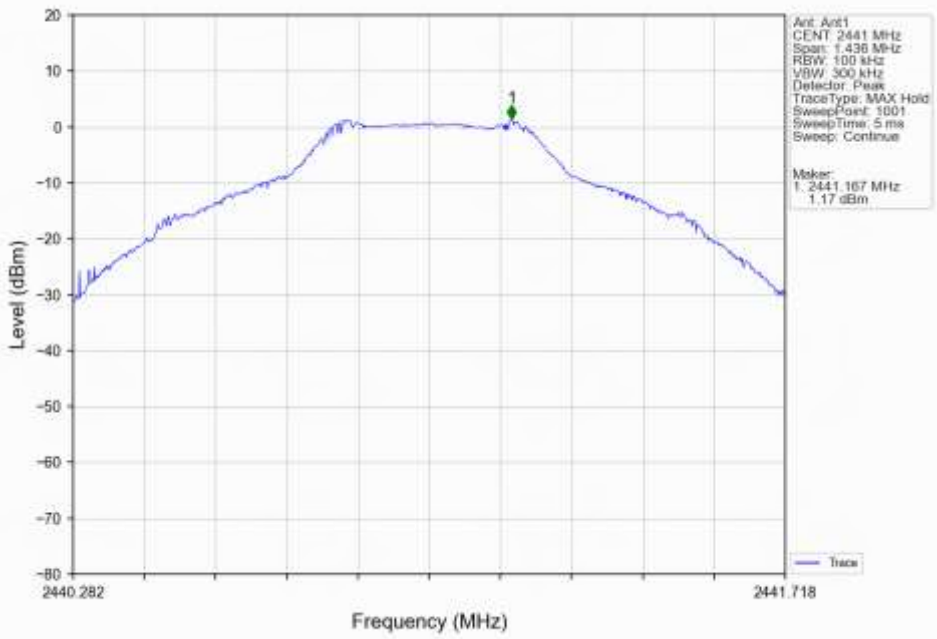
6.2 Test Graph

6.2.1 Ref

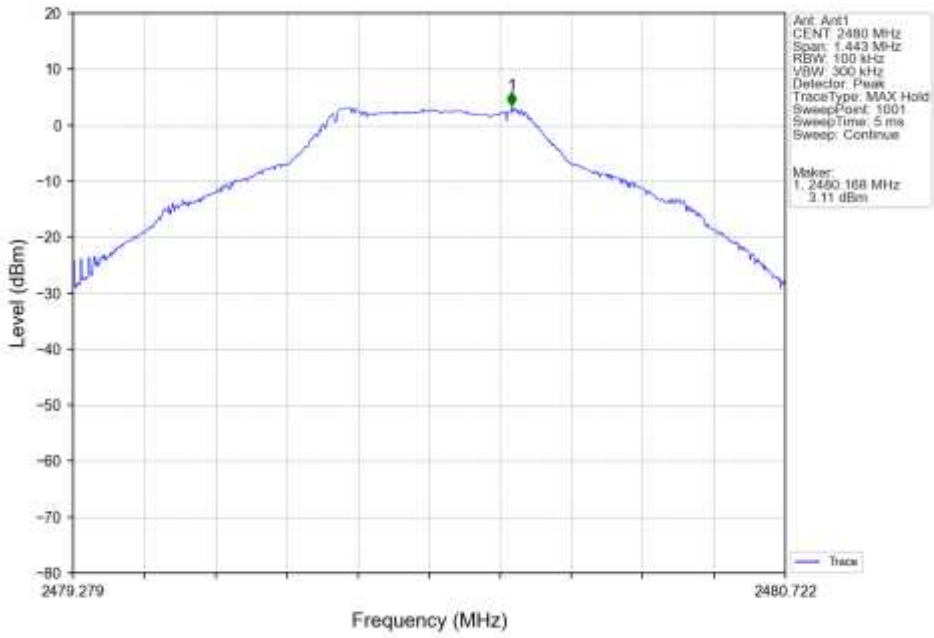
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



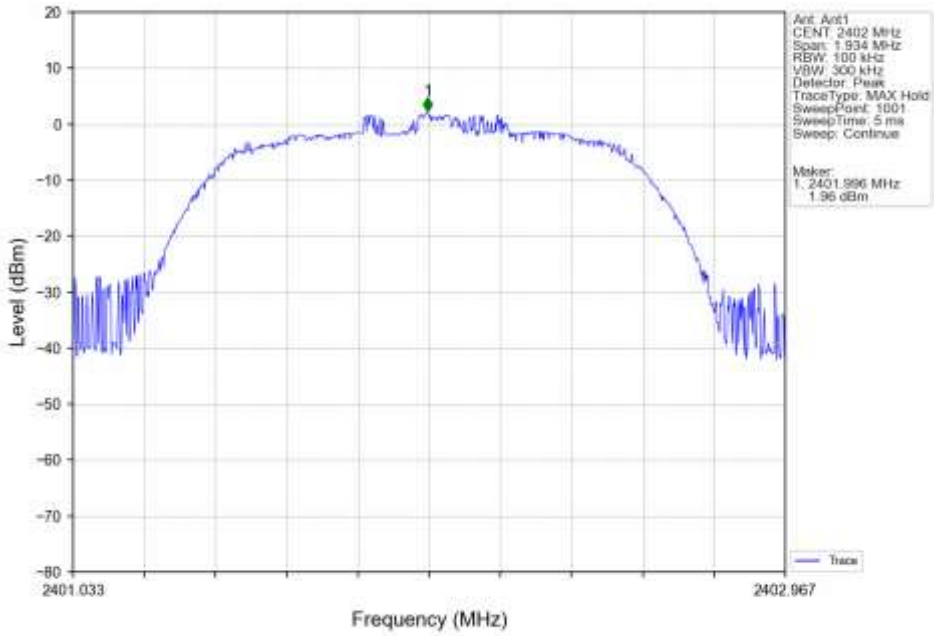
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



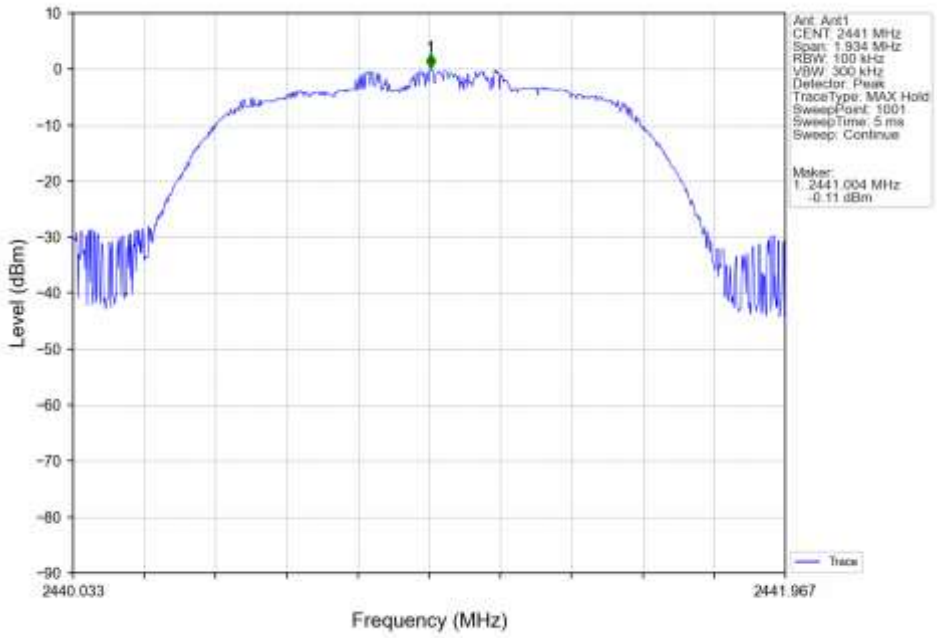
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



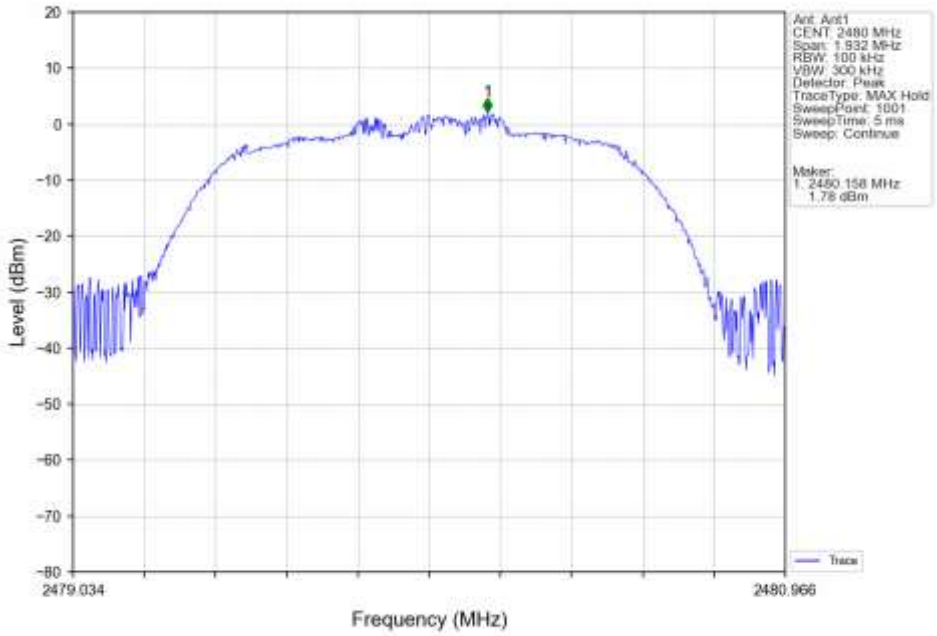
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



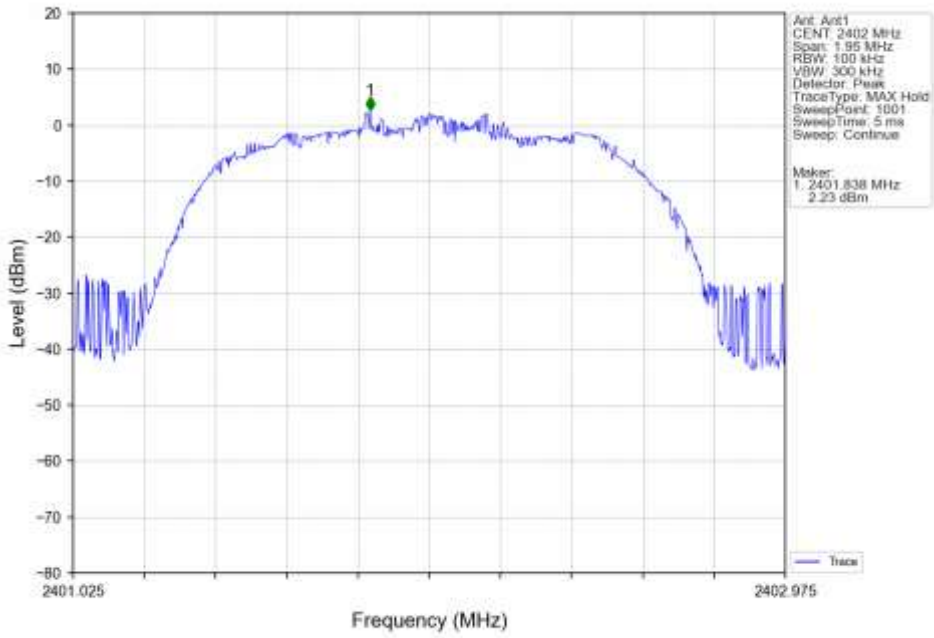
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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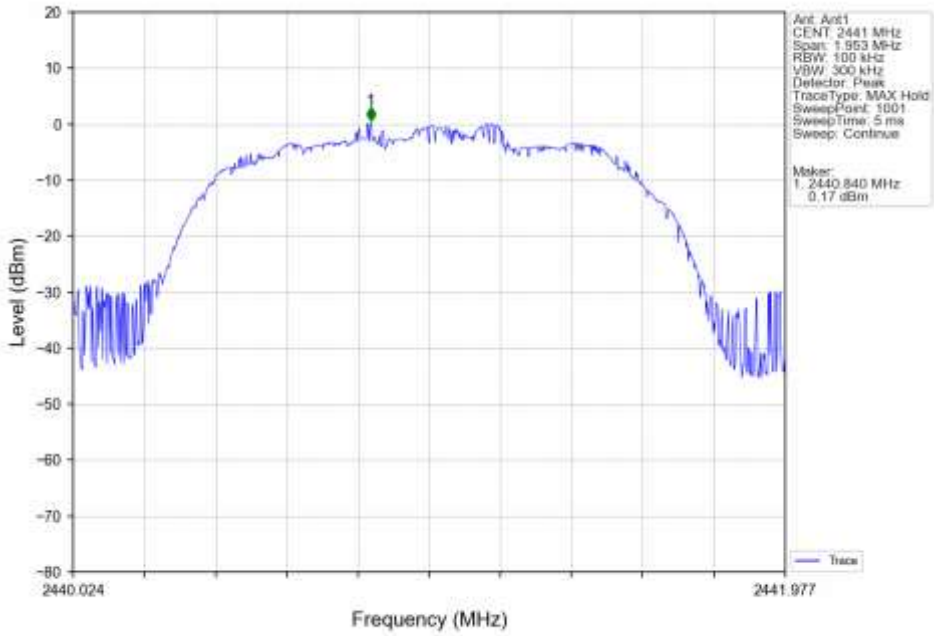

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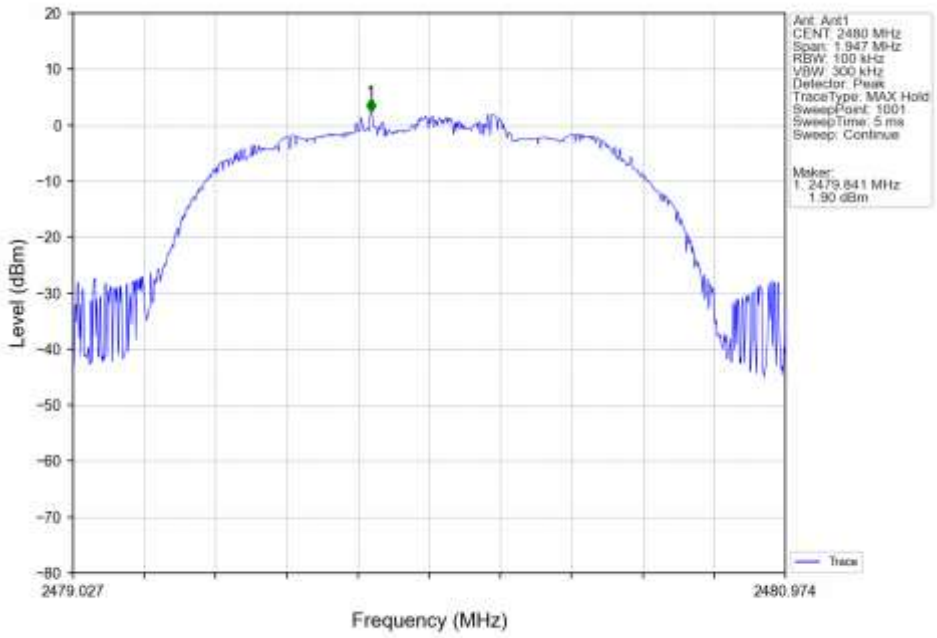
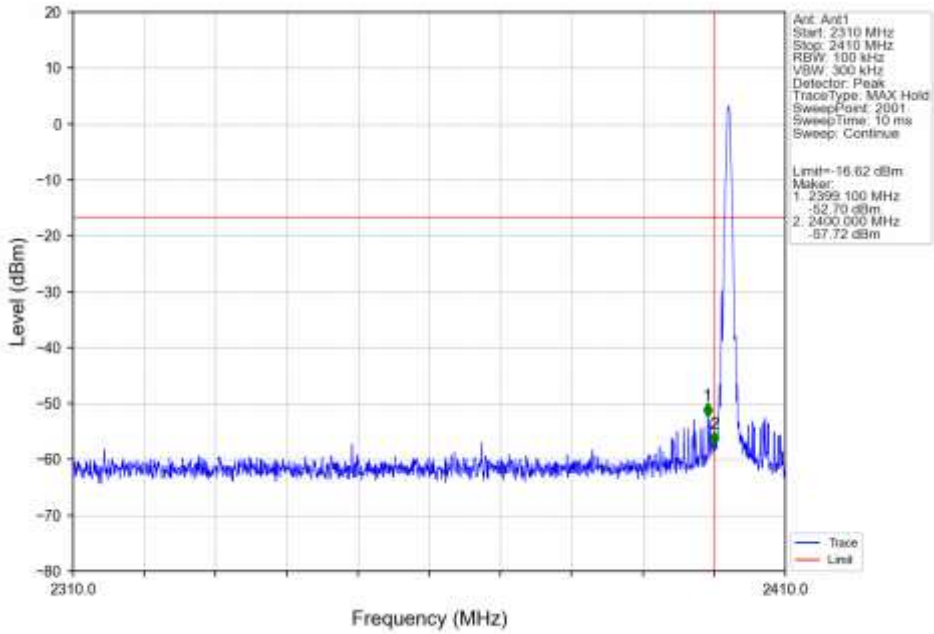
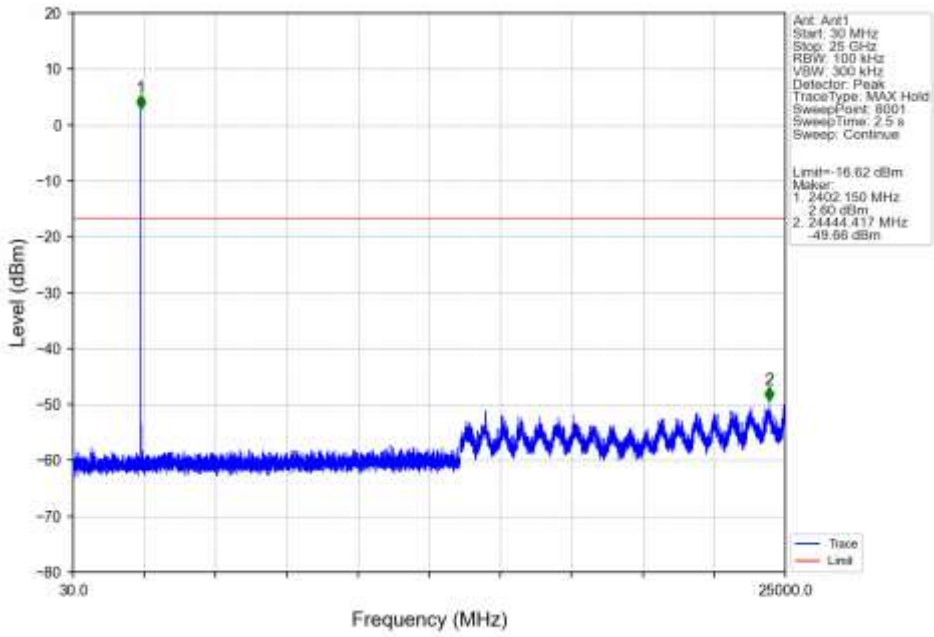


6.2.2 CSE

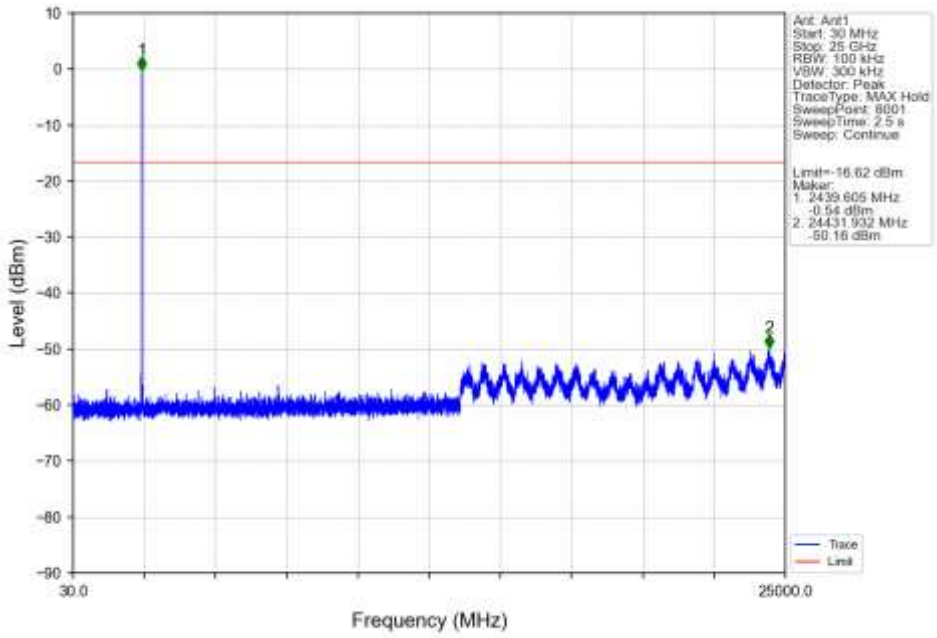
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



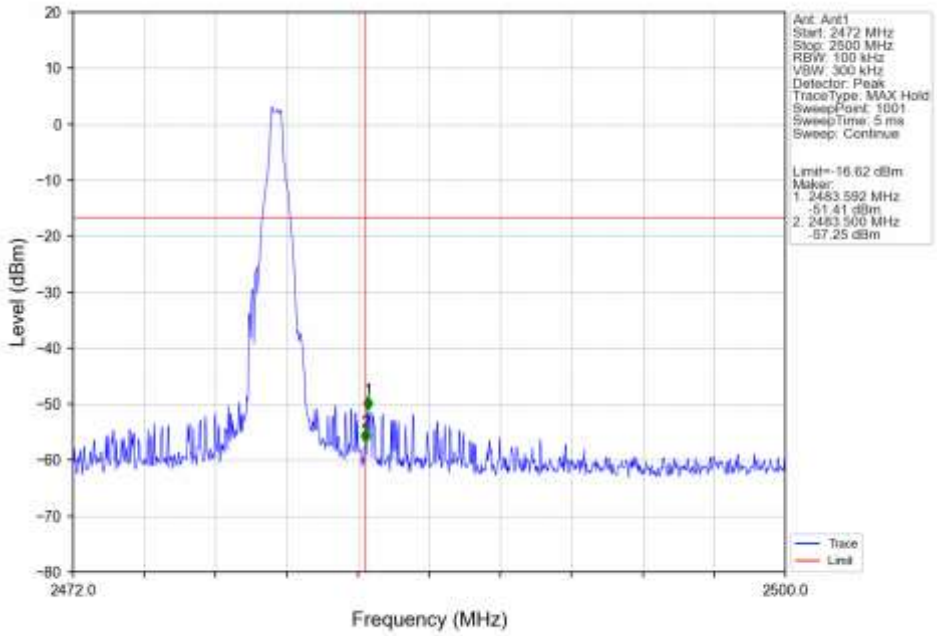
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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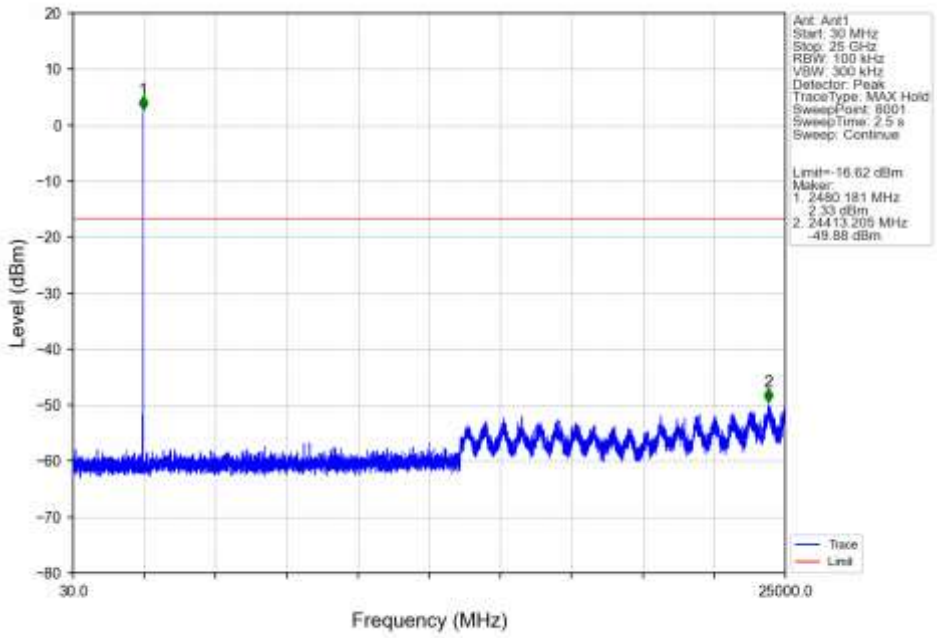
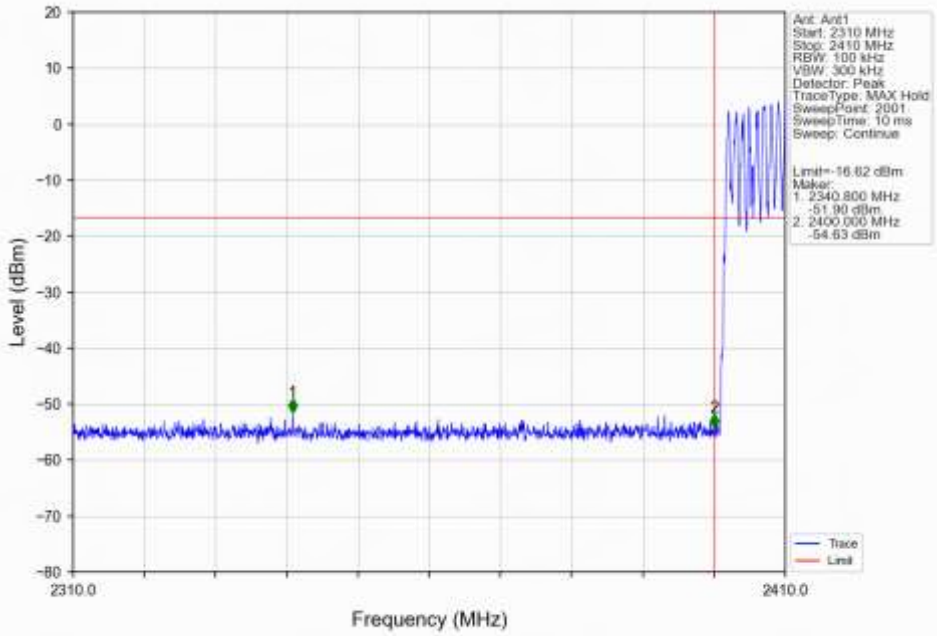
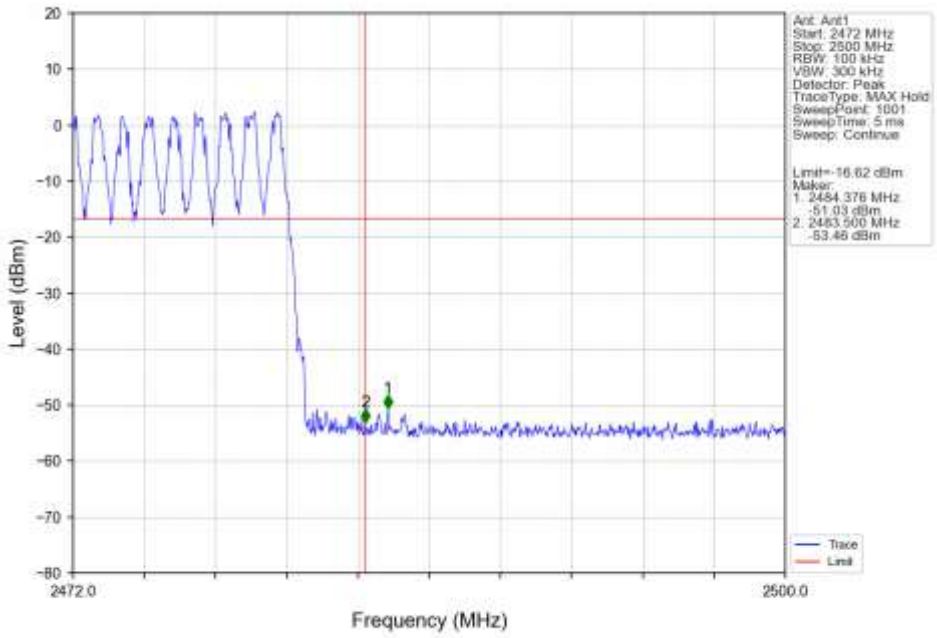


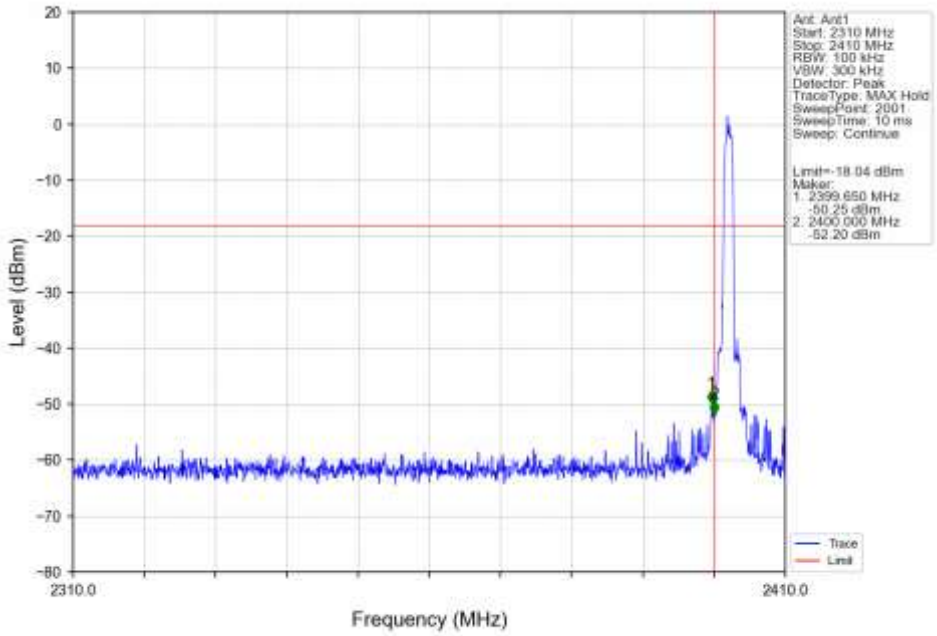
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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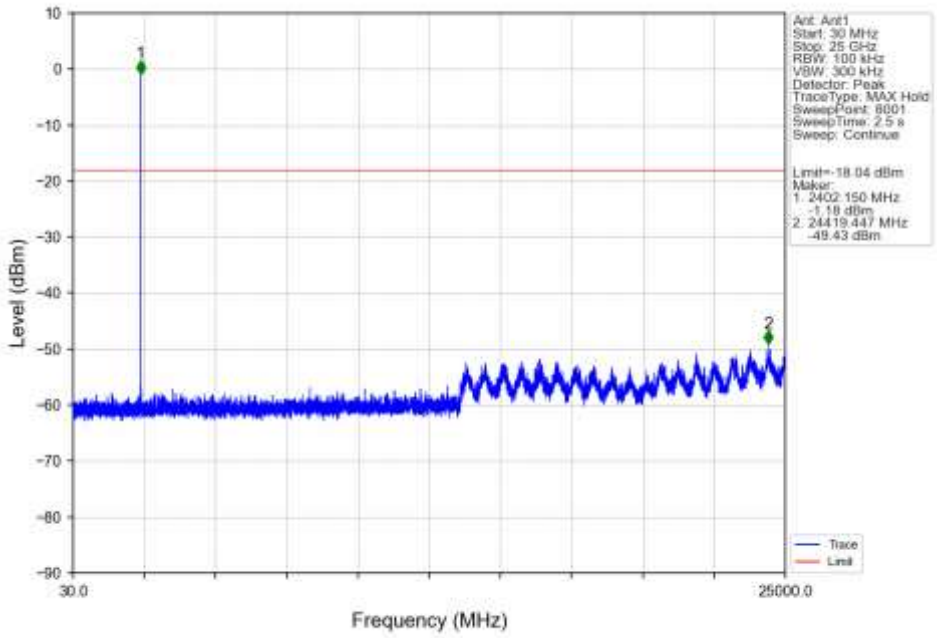

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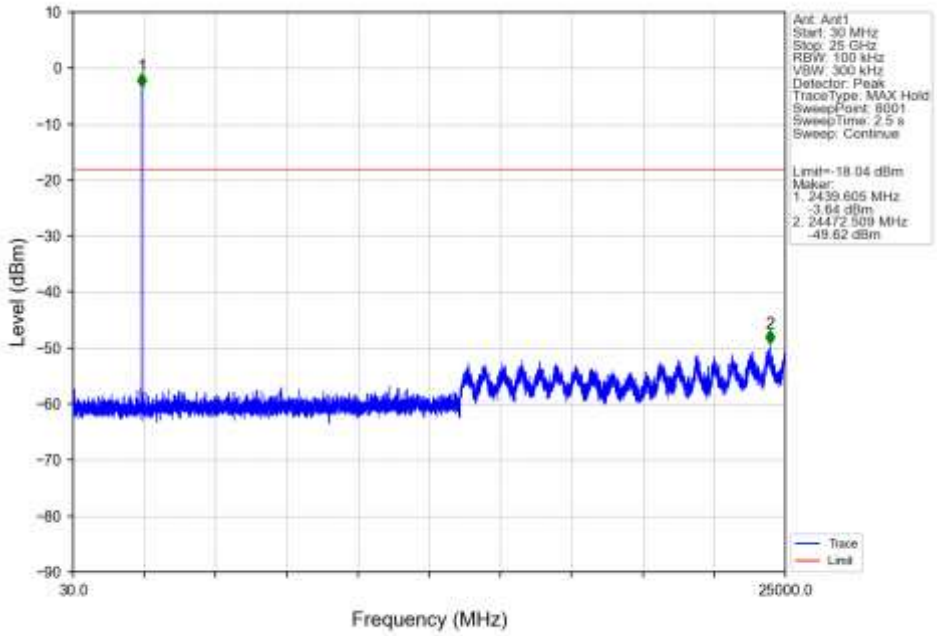
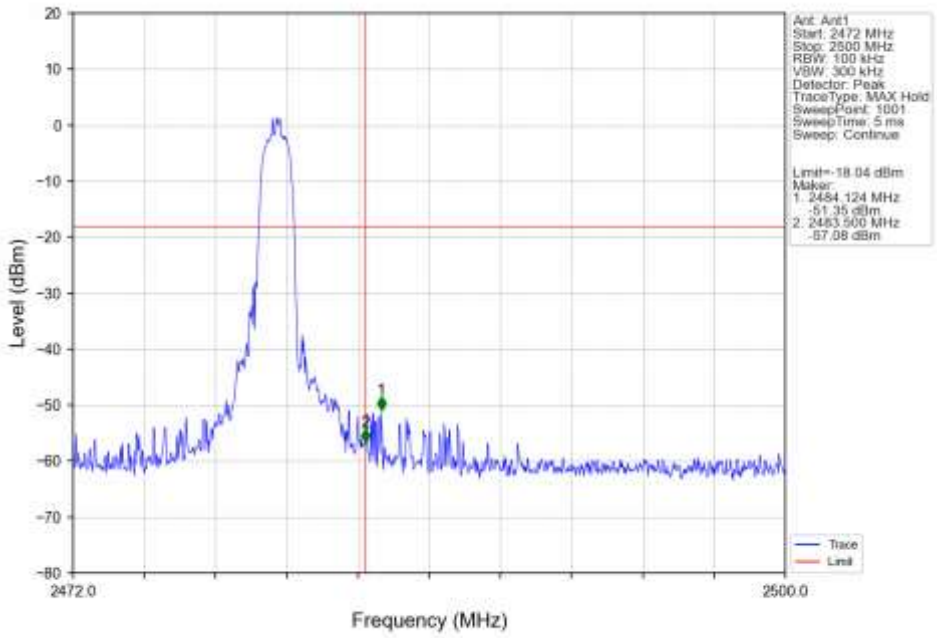


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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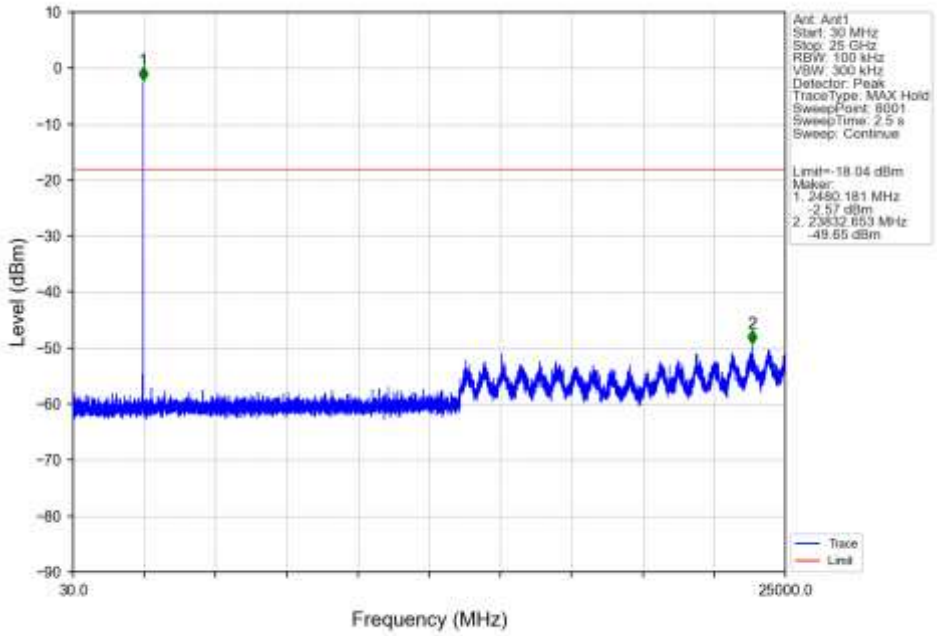

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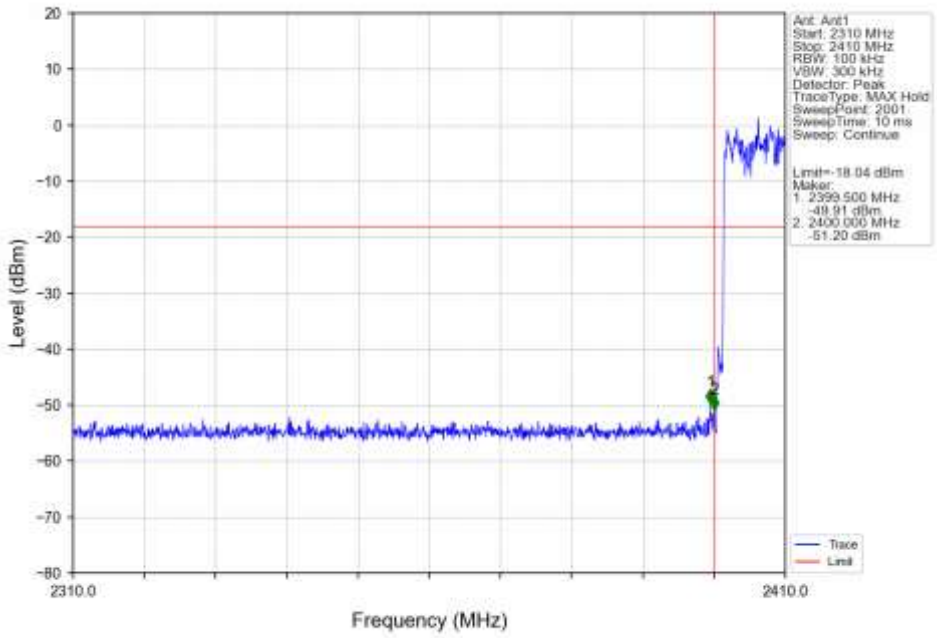

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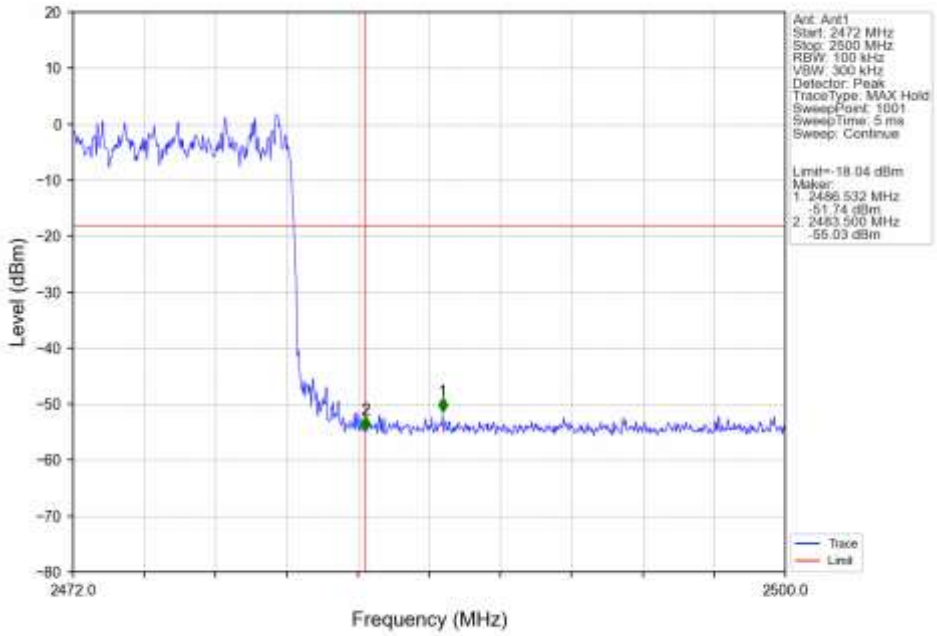
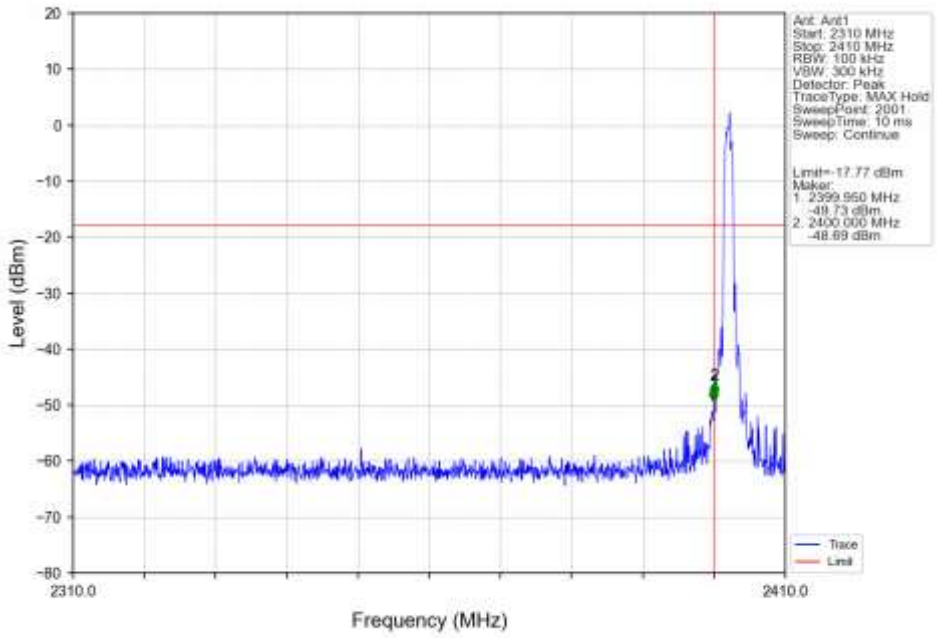


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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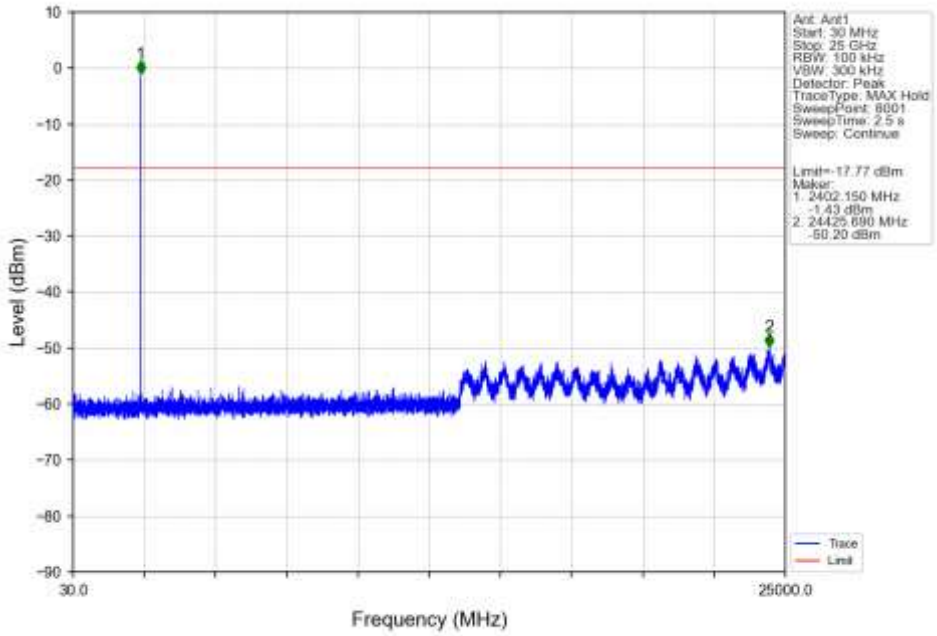

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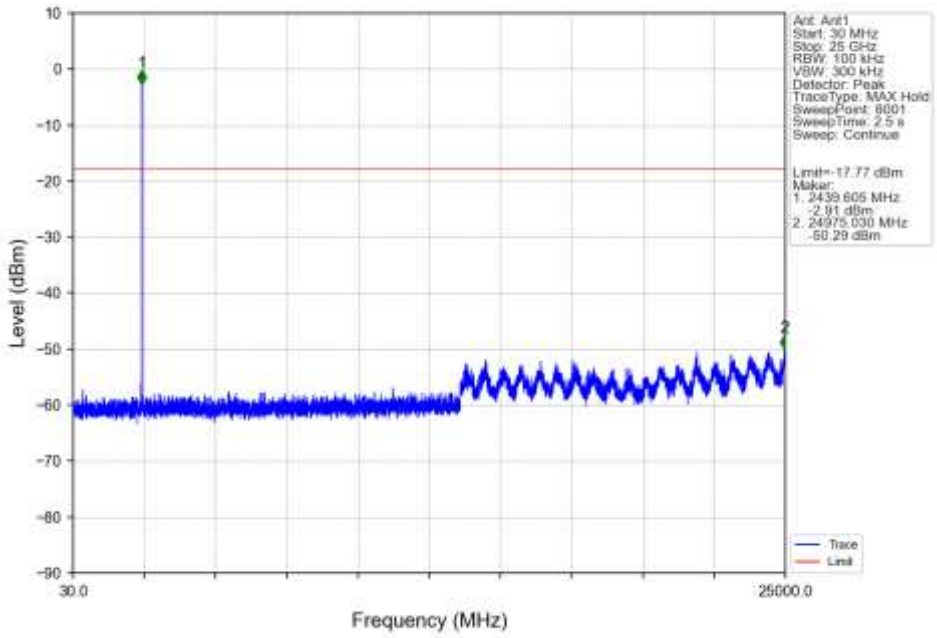
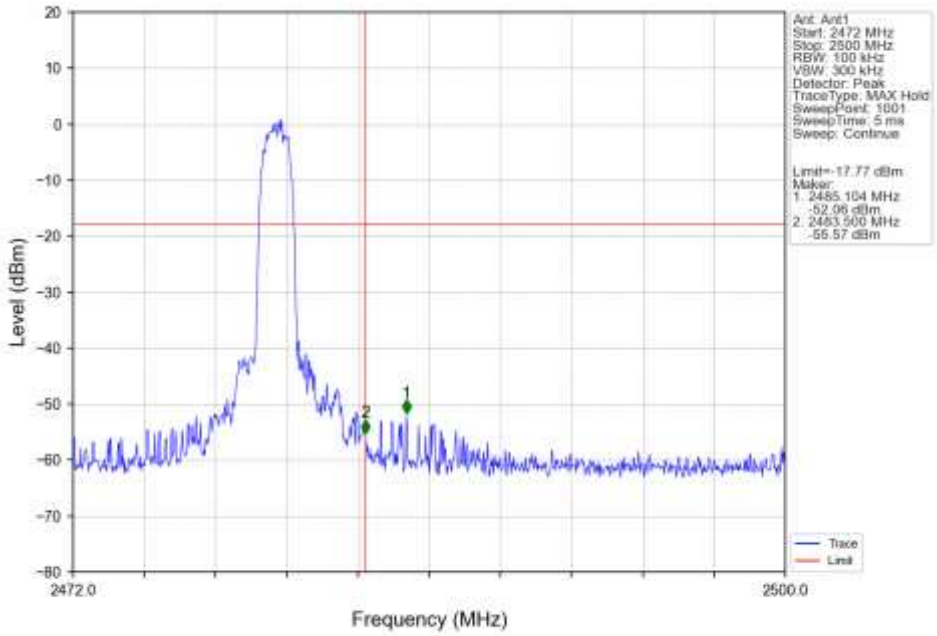
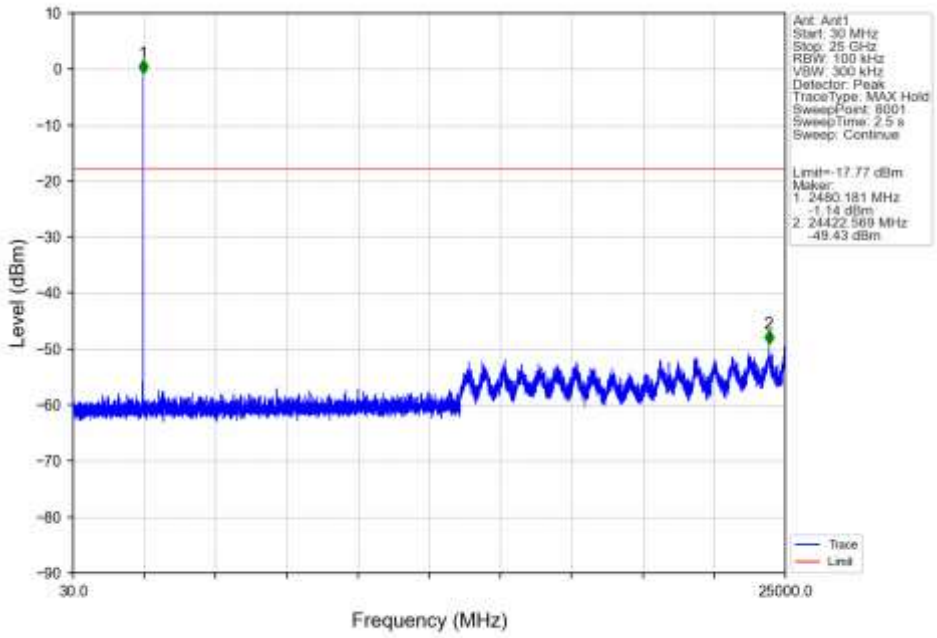


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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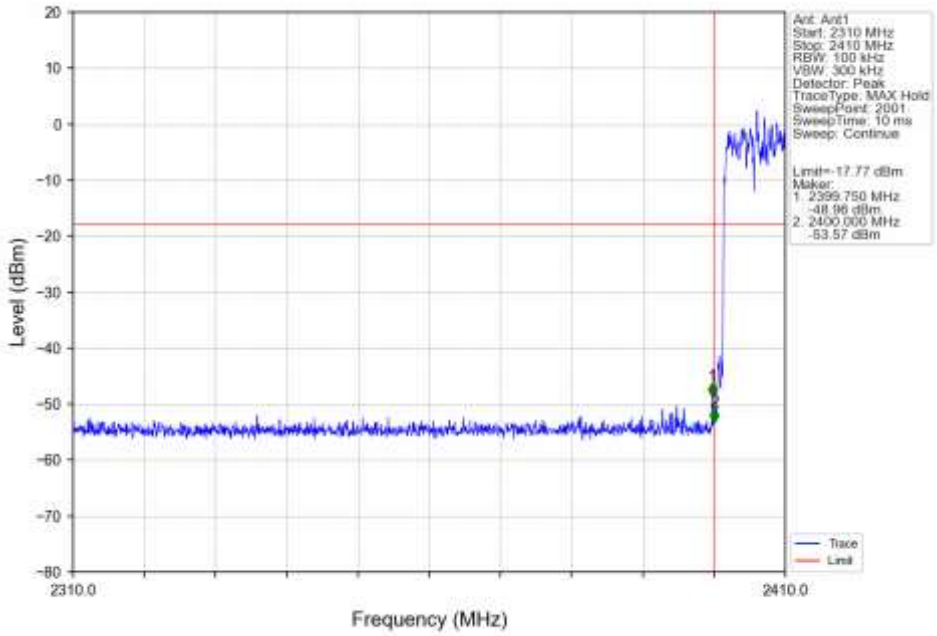
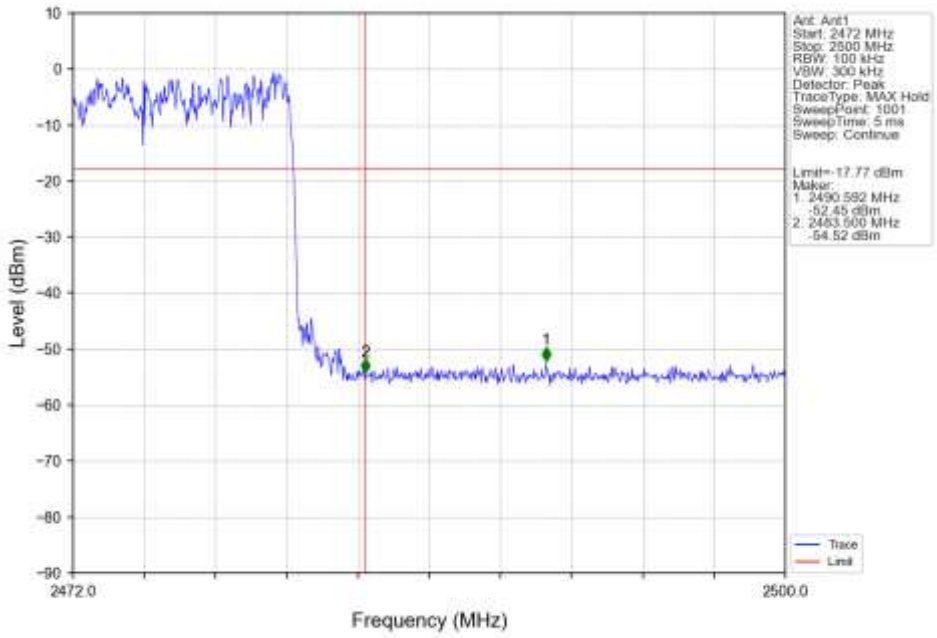


8DPSK_3DH5_HOPP_Ant1_NTNV



7. Form731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0016	2.03

Right:

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.832	/	Pass
		2441	DH5	1	0.834	/	Pass
		2480	DH5	1	0.835	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.188	/	Pass
		2441	2DH5	1	1.176	/	Pass
		2480	2DH5	1	1.177	/	Pass
8DPSK	SISO	2402	3DH5	1	1.184	/	Pass
		2441	3DH5	1	1.185	/	Pass
		2480	3DH5	1	1.190	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.931	/	Pass
		2441	DH5	1	0.936	/	Pass
		2480	DH5	1	0.930	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.290	/	Pass
		2441	2DH5	1	1.293	/	Pass
		2480	2DH5	1	1.291	/	Pass
8DPSK	SISO	2402	3DH5	1	1.304	/	Pass
		2441	3DH5	1	1.304	/	Pass
		2480	3DH5	1	1.305	/	Pass

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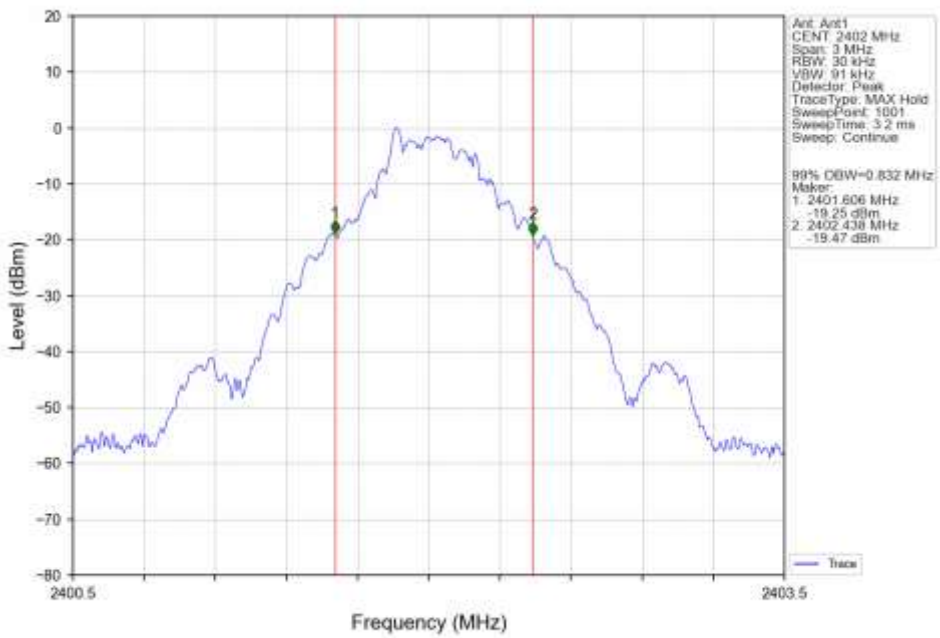
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

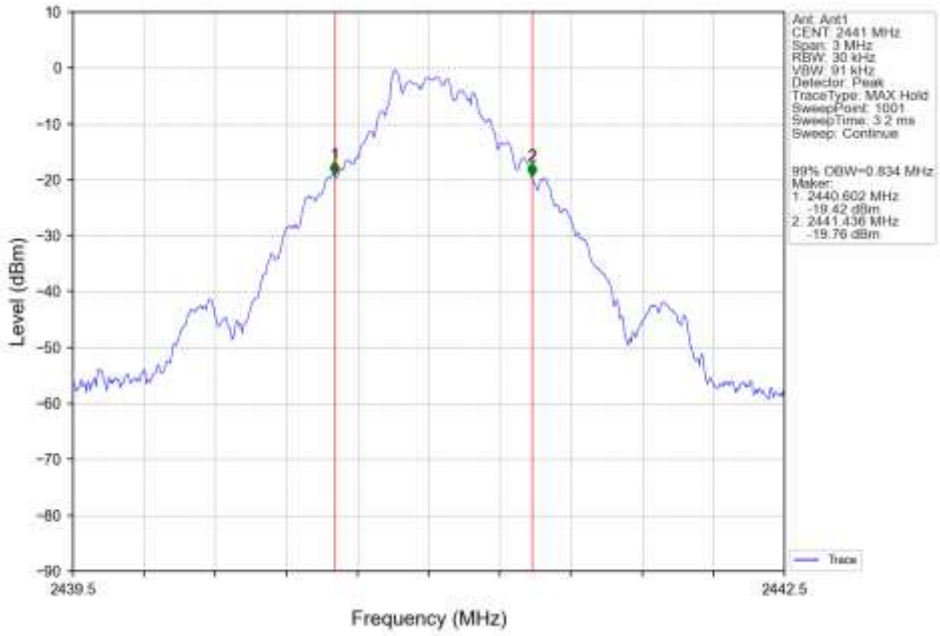
1.2 Test Graph

1.2.1 OBW

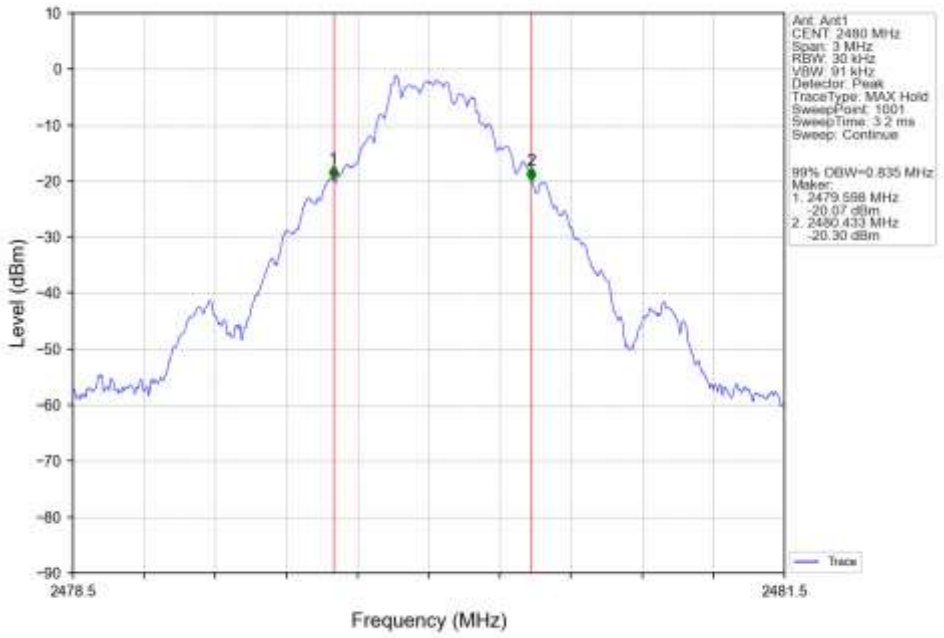
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



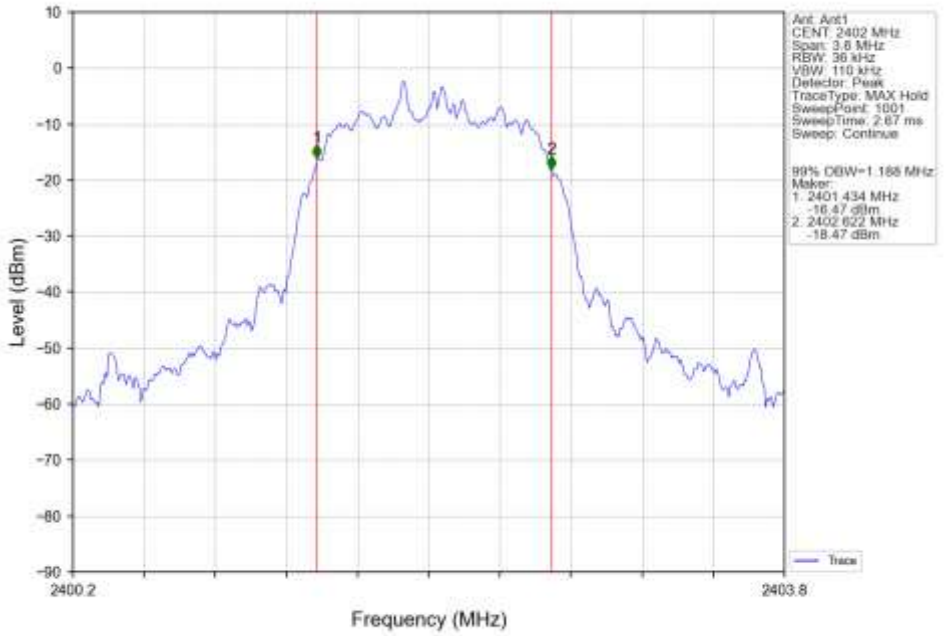
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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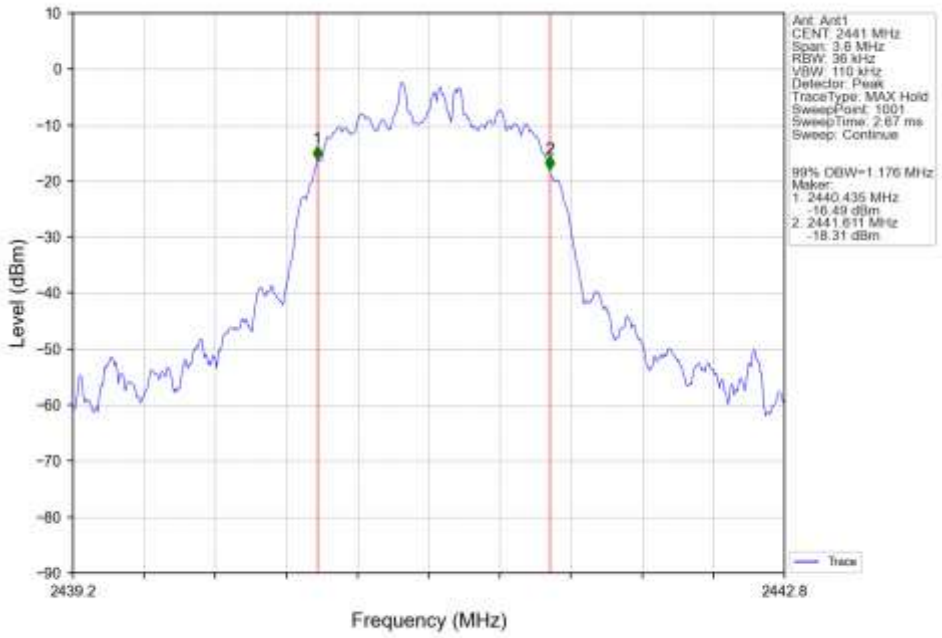
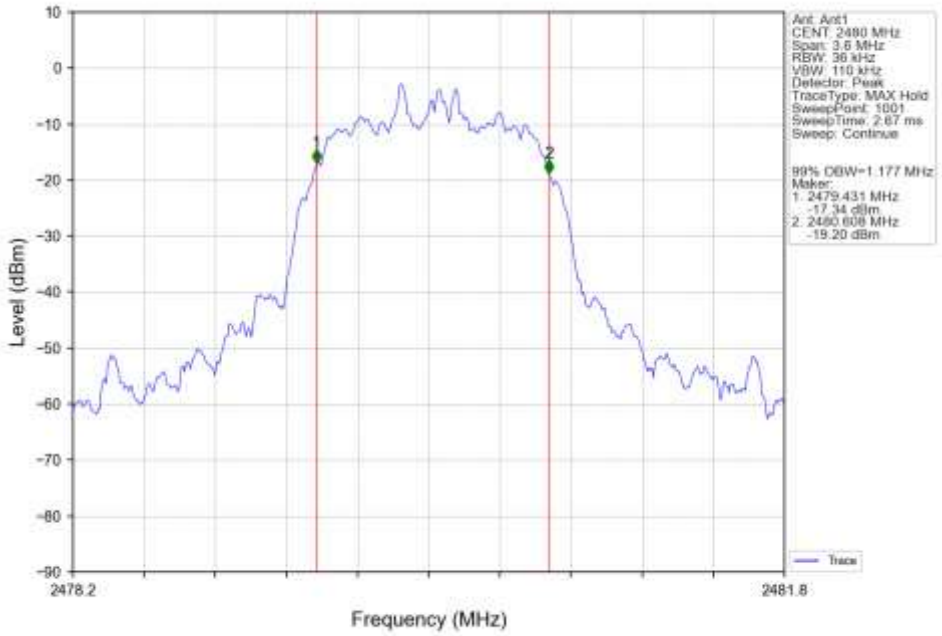
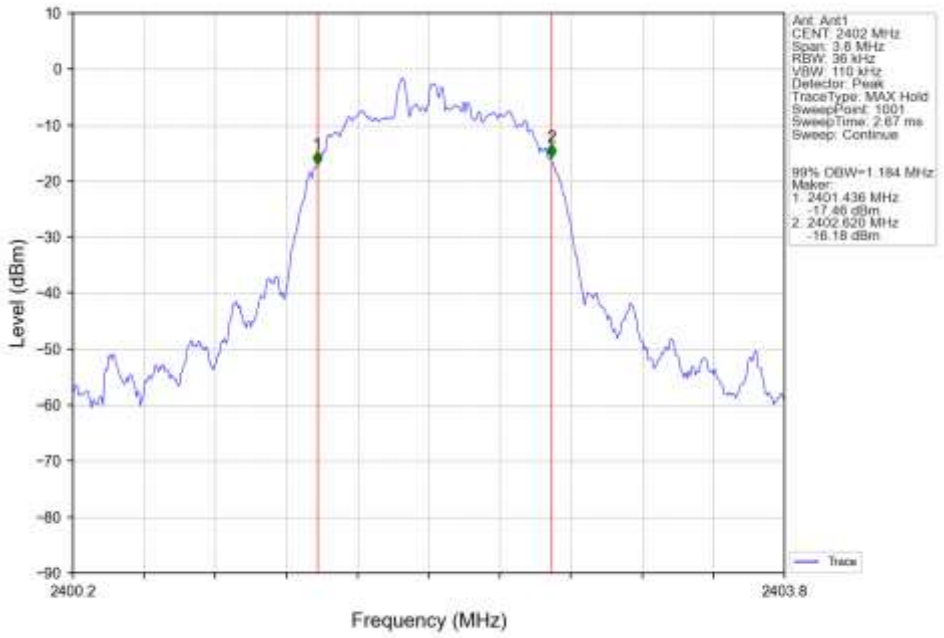


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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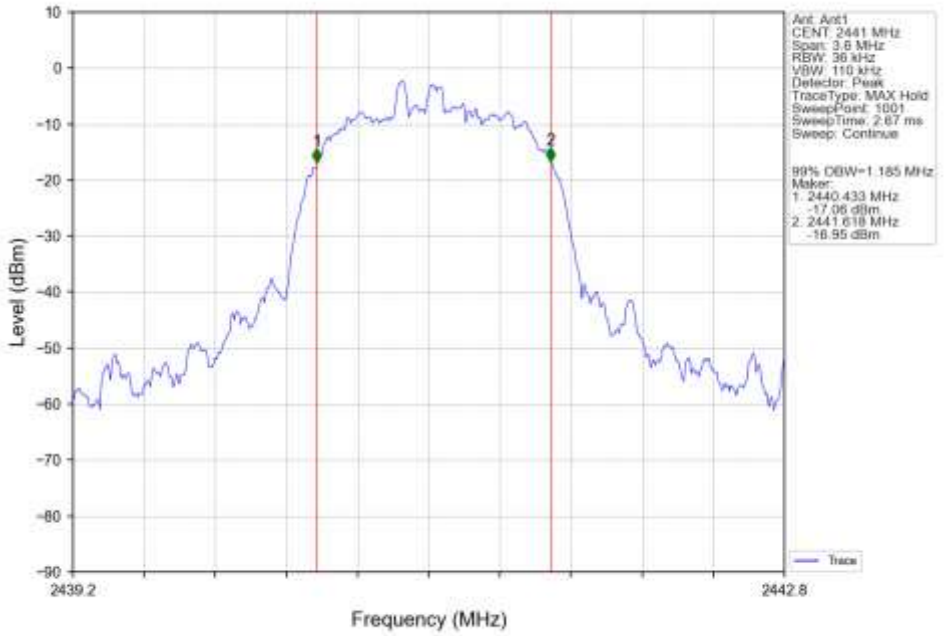

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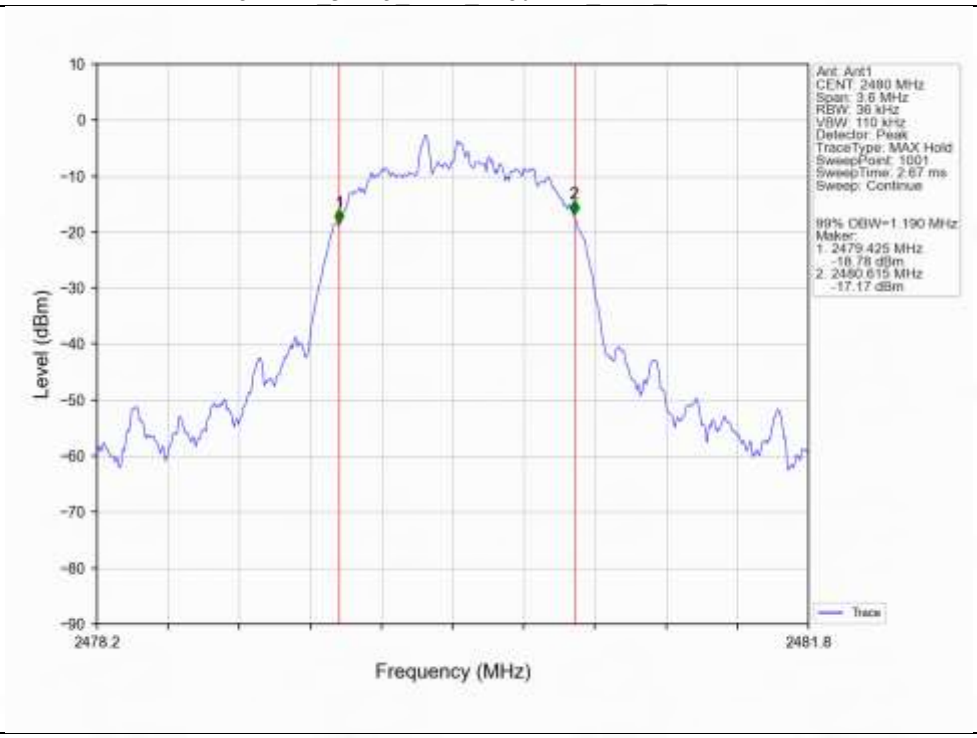
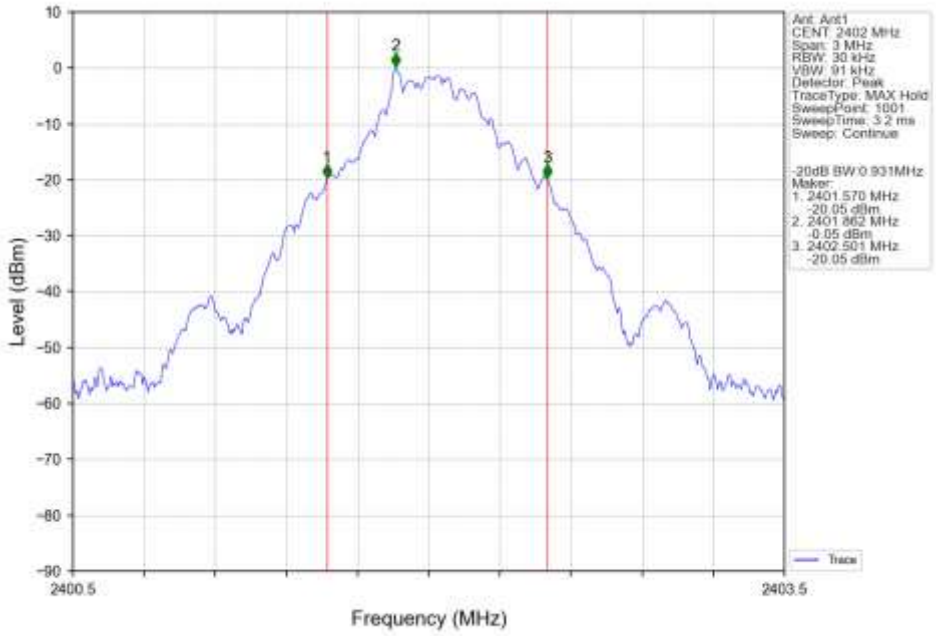
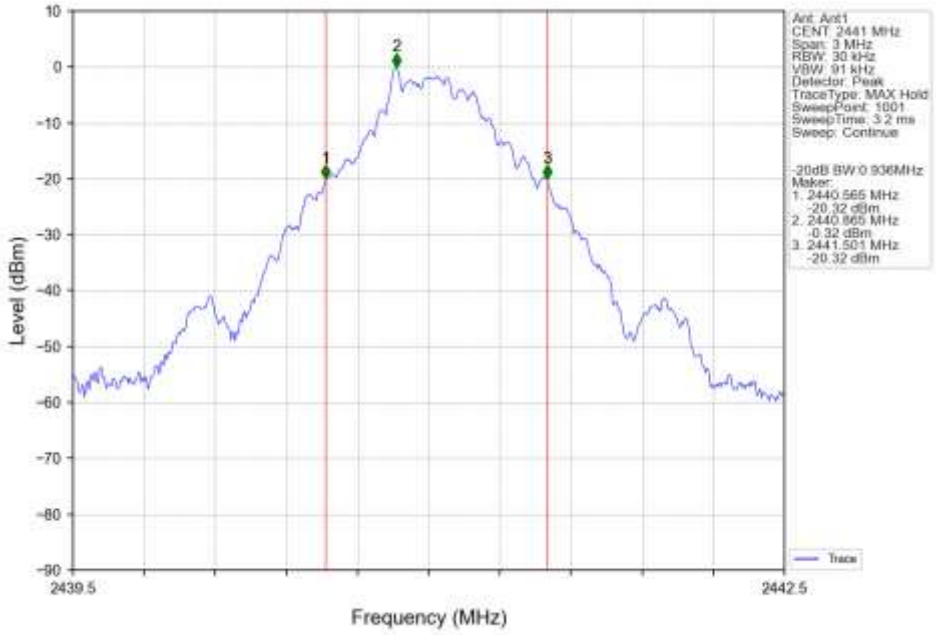


1.2.2 20dB BW

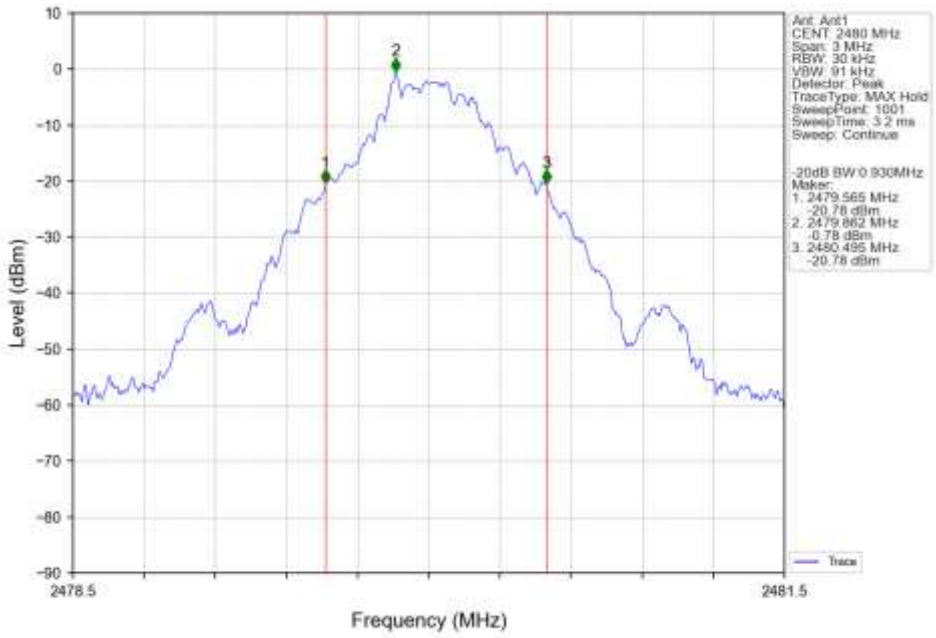
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



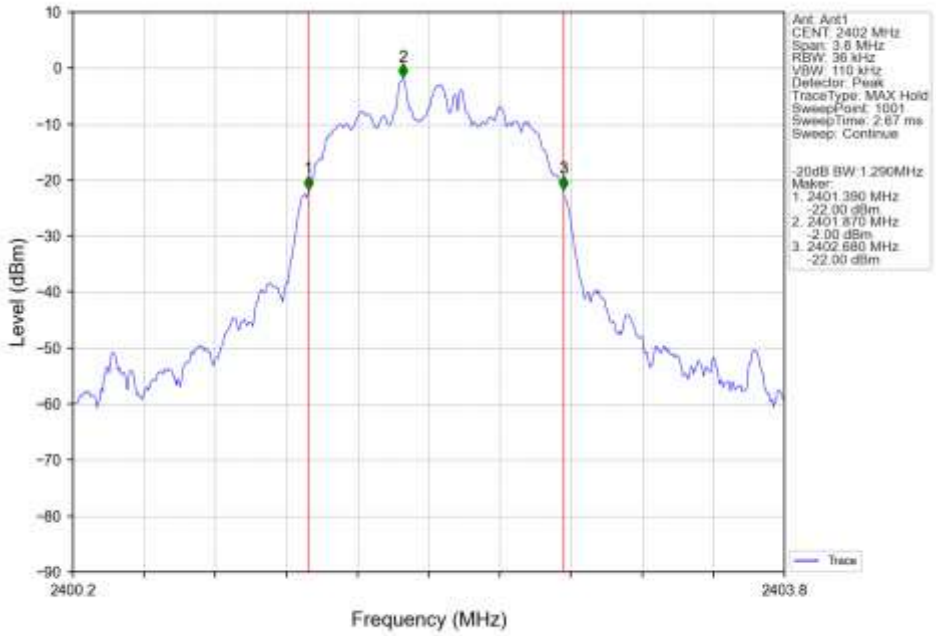
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



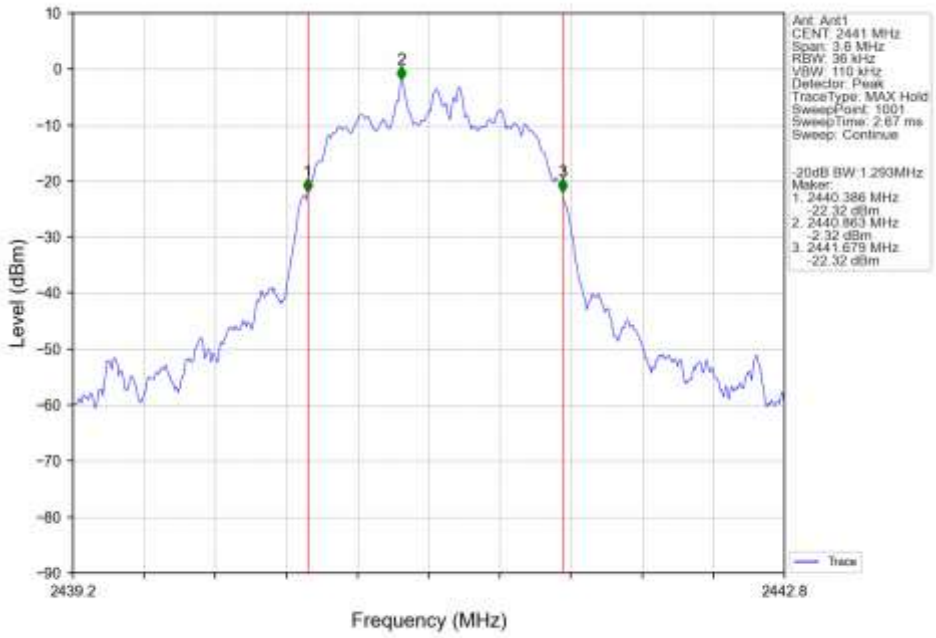
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



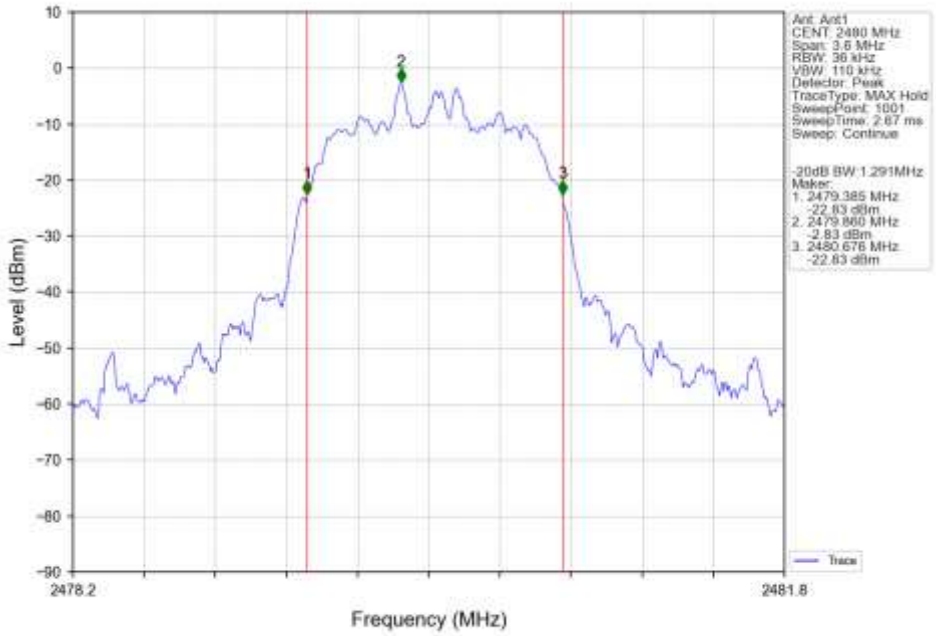
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



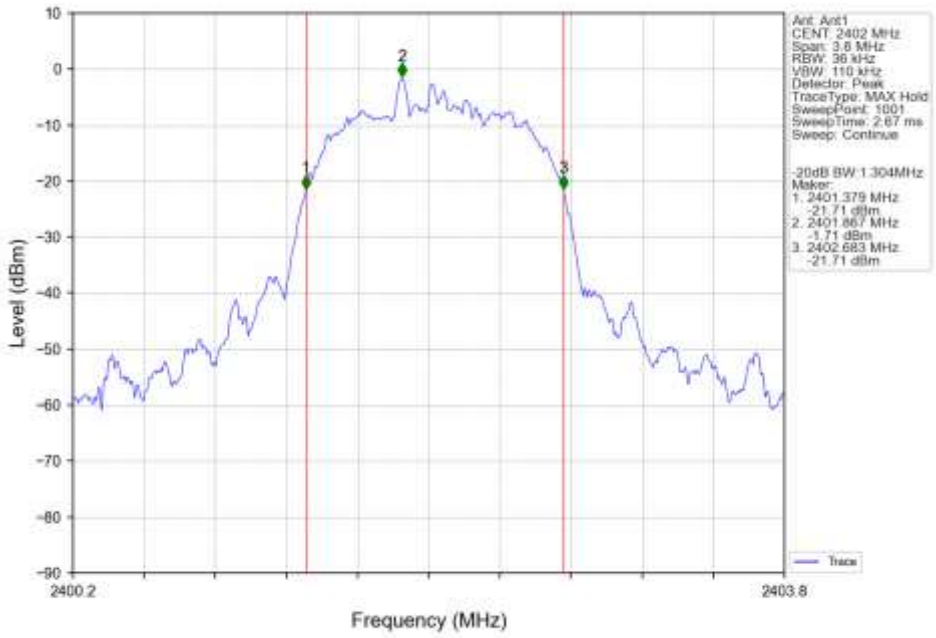
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



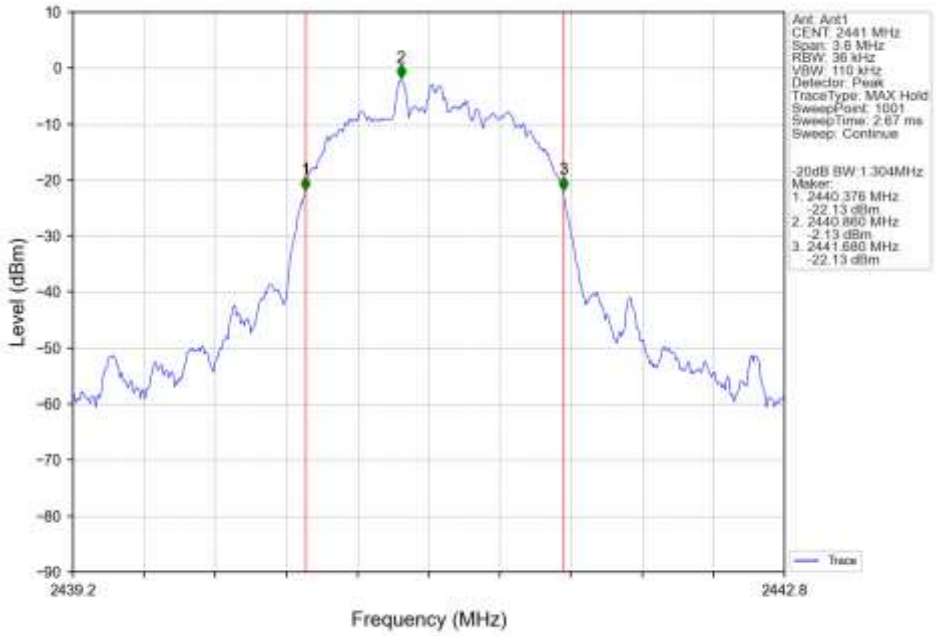
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



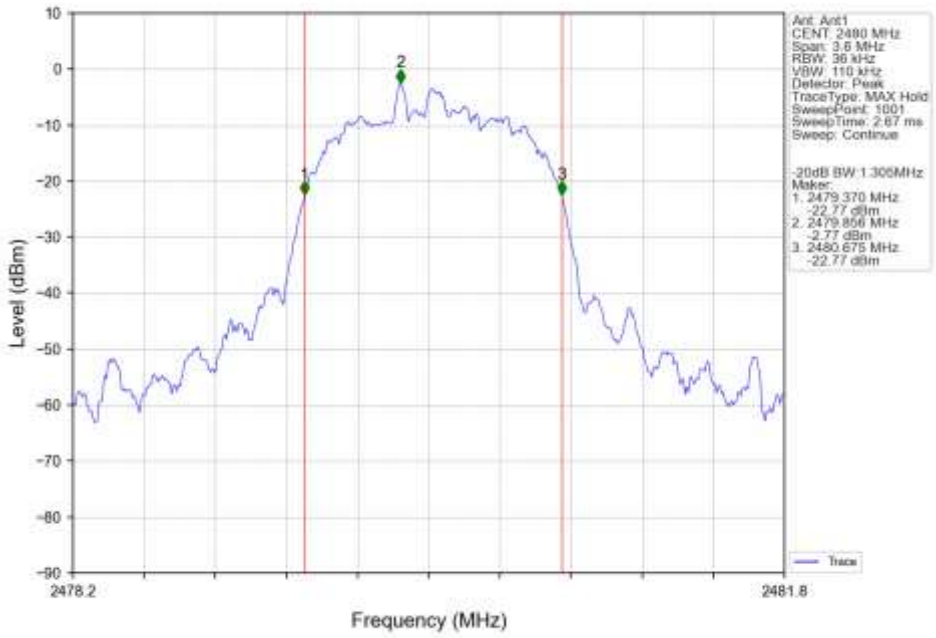
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.95	<=30	Pass
		2441	DH5	0.77	<=30	Pass
		2480	DH5	0.33	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.19	<=20.97	Pass
		2441	2DH5	0.79	<=20.97	Pass
		2480	2DH5	0.22	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.62	<=20.97	Pass
		2441	3DH5	1.27	<=20.97	Pass
		2480	3DH5	0.64	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.70dBi;						

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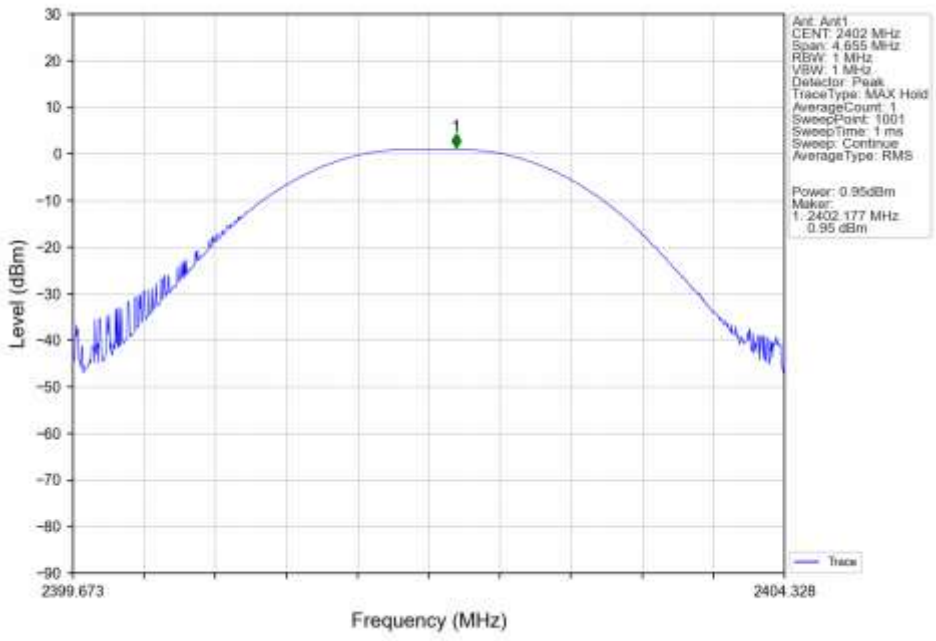
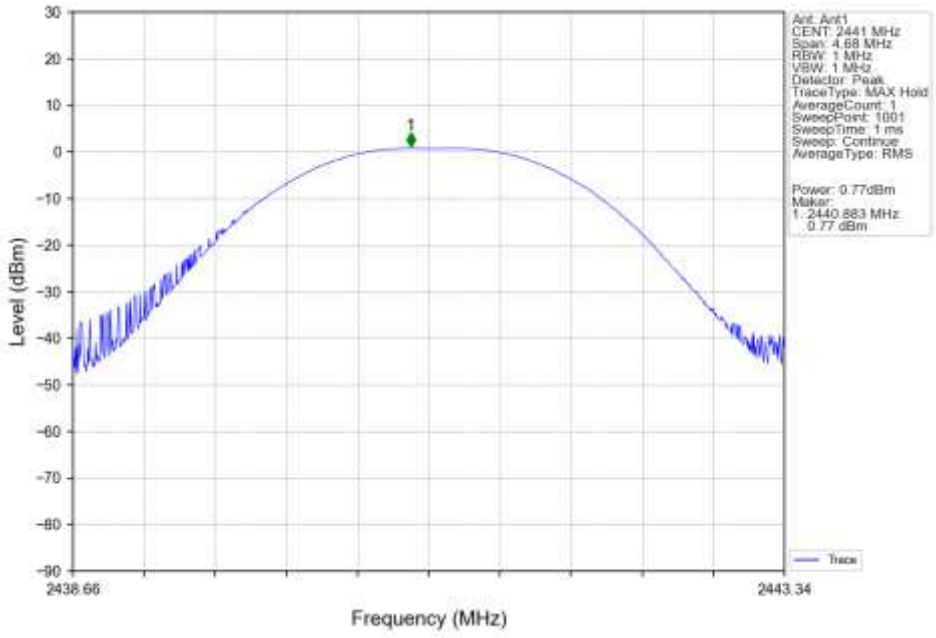
2.2 Test Graph

2.2.1 Power

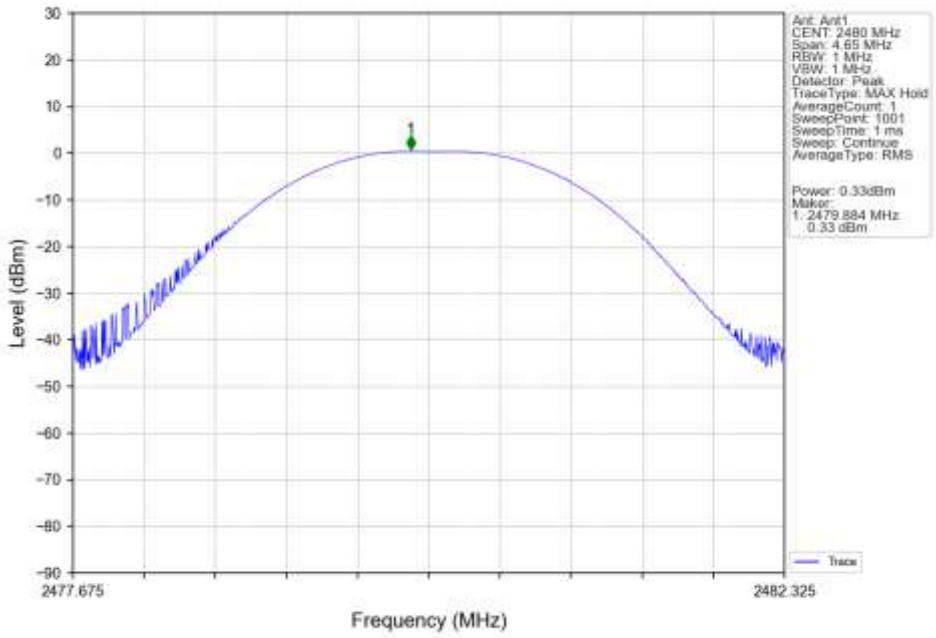
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



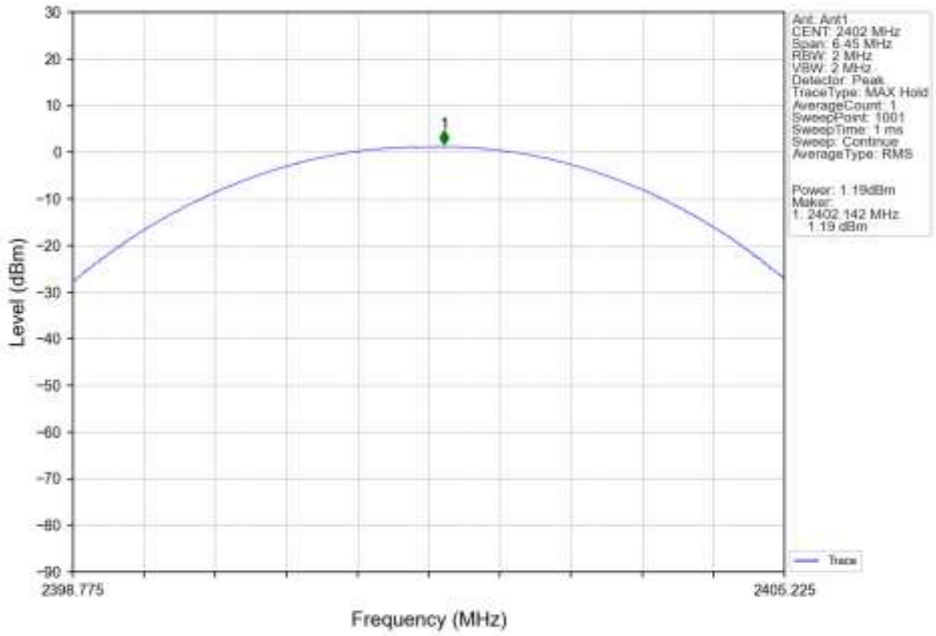
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



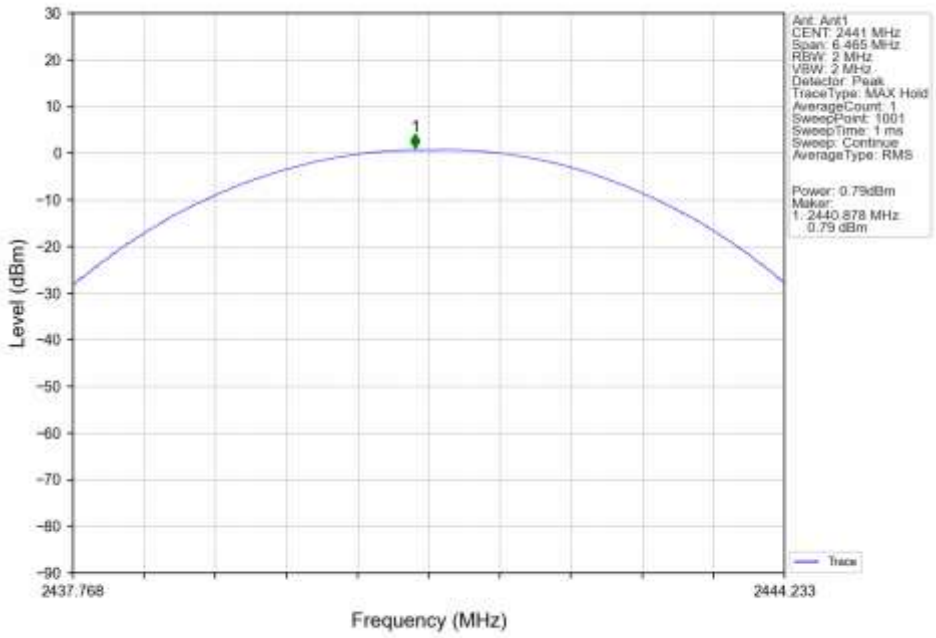
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



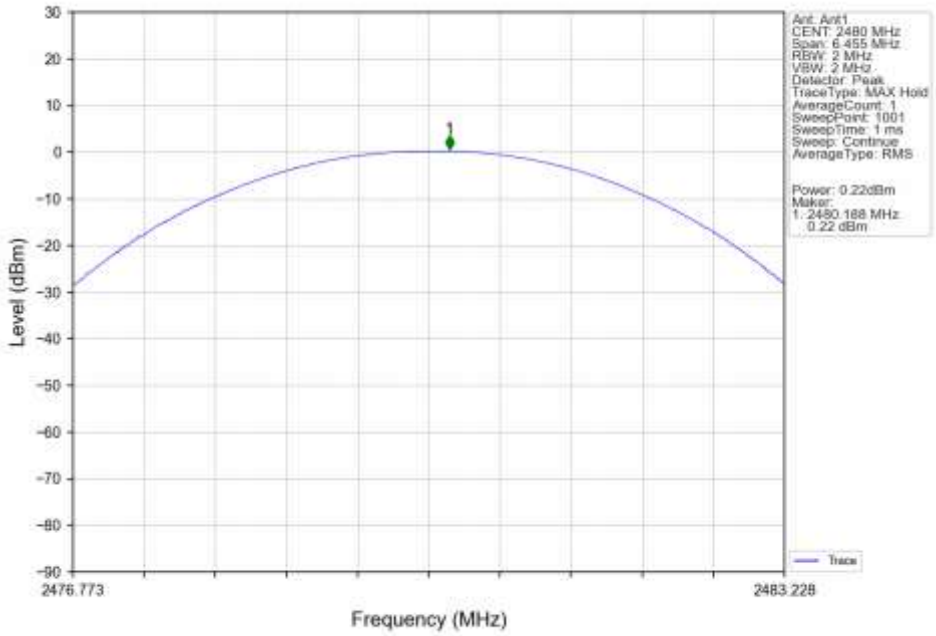
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



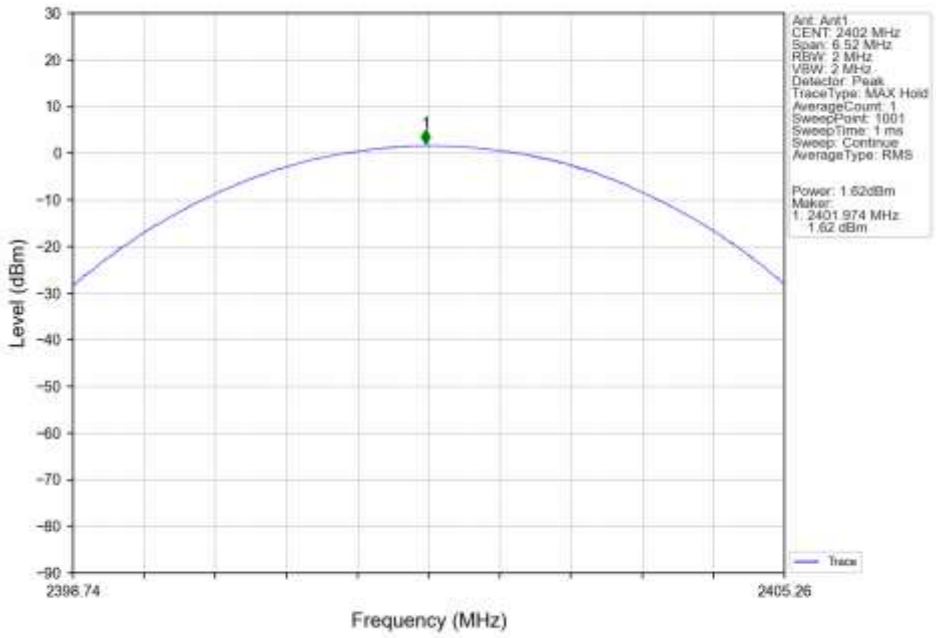
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



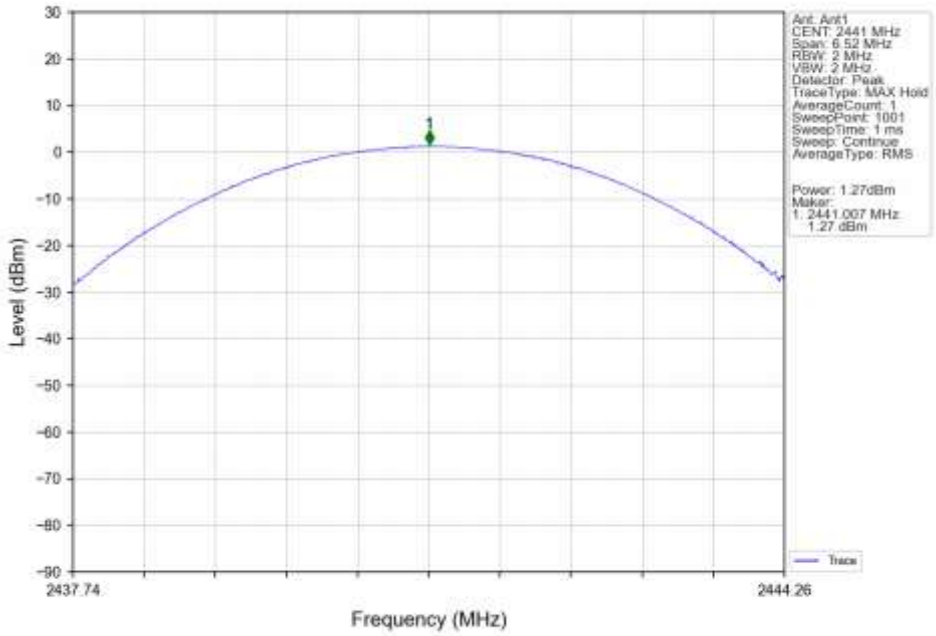
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



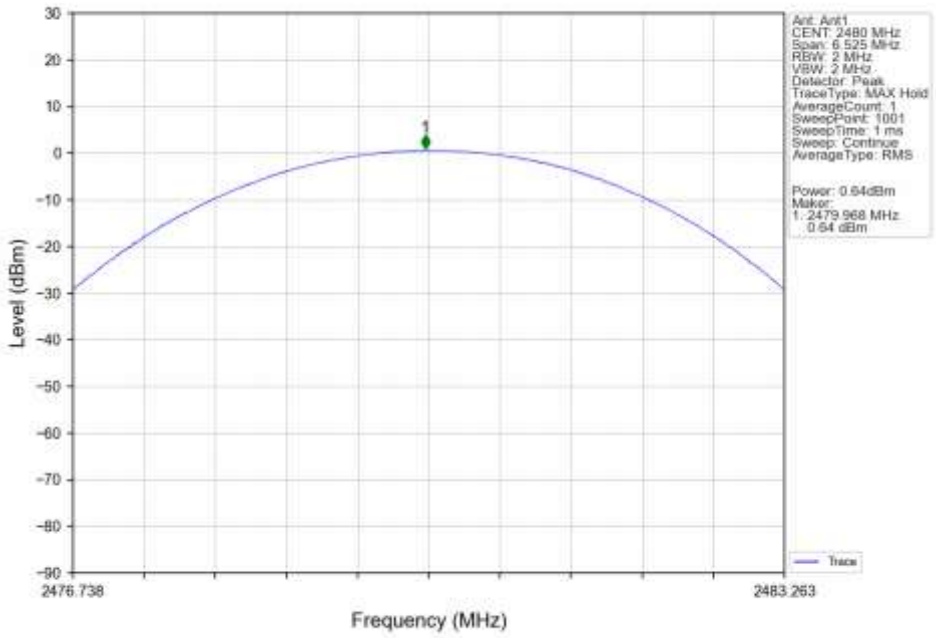
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.998	0.936	>=0.936	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.293	>=0.862	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.305	>=0.87	Pass

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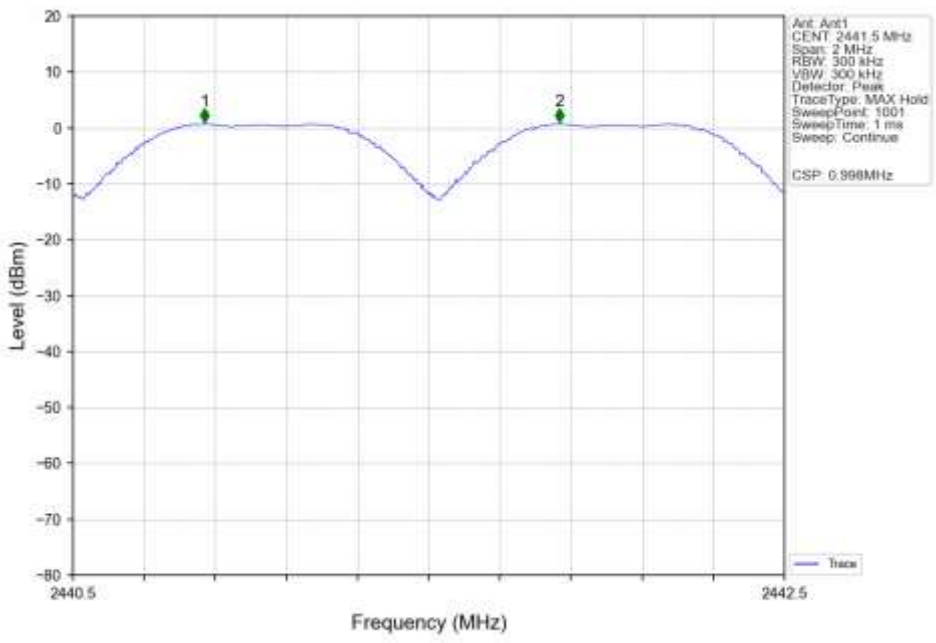
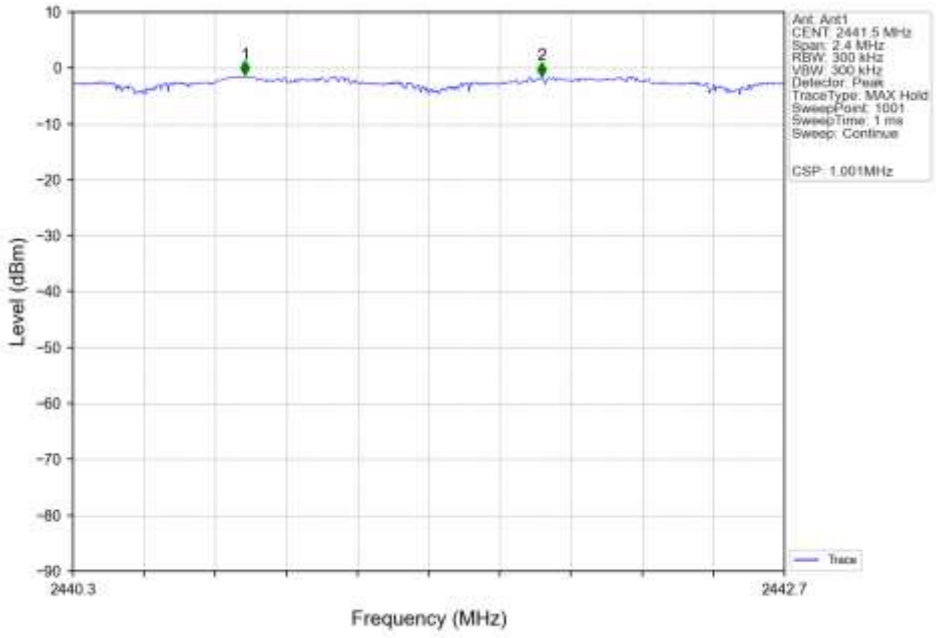
3.2 Test Graph

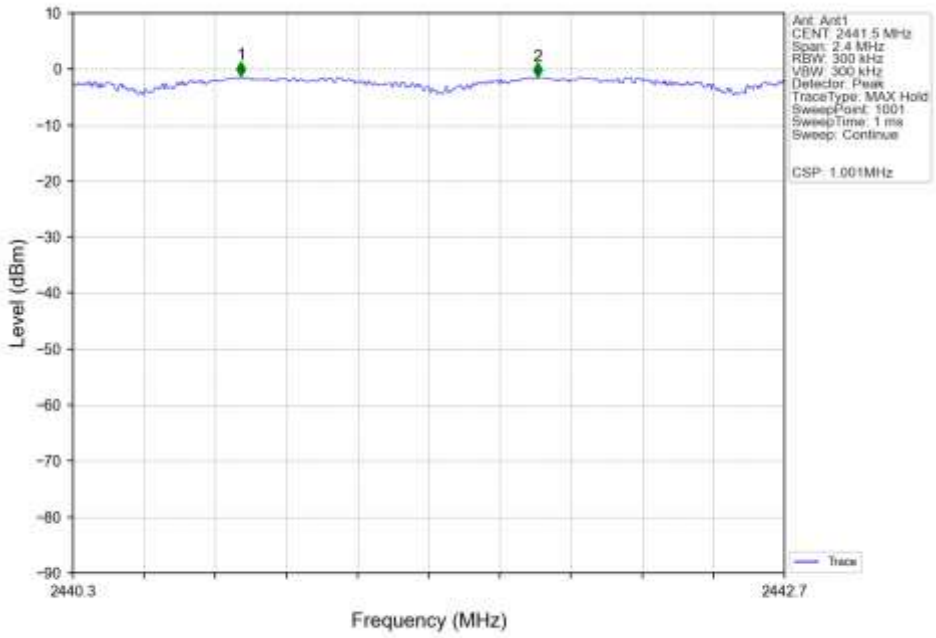
3.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV


4. Number of Hopping Frequencies

4.1 Test Result

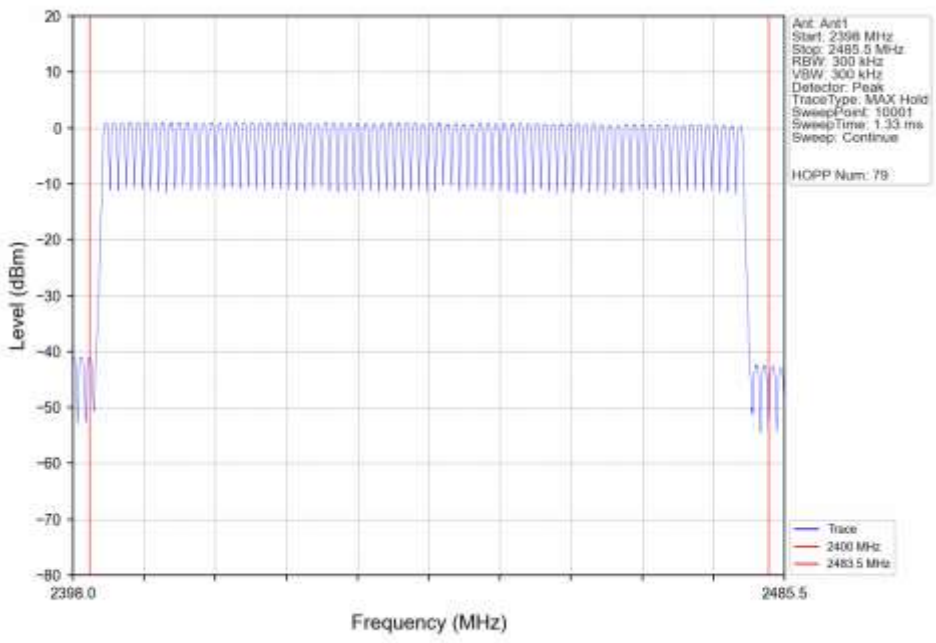
4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

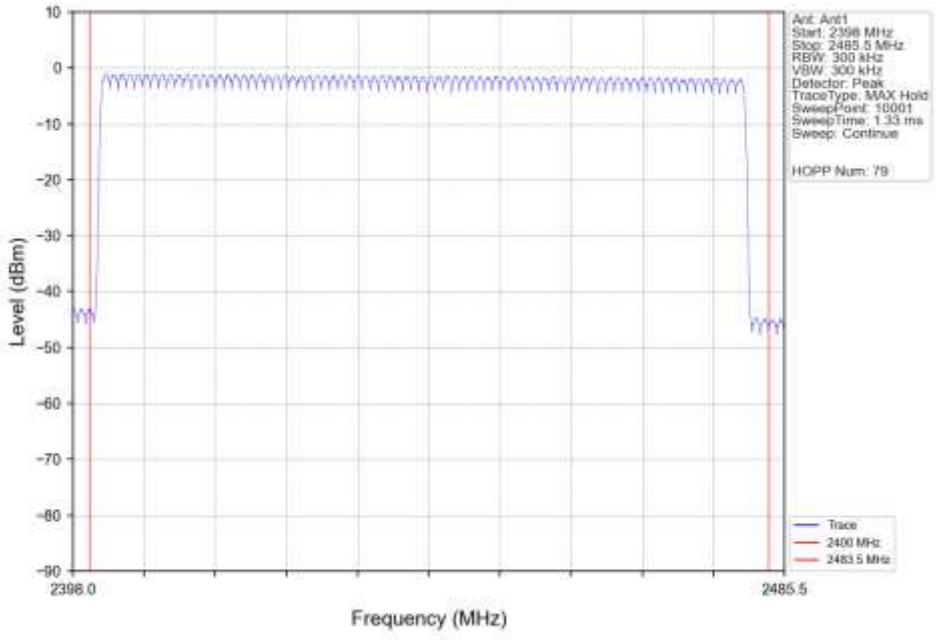
4.2 Test Graph

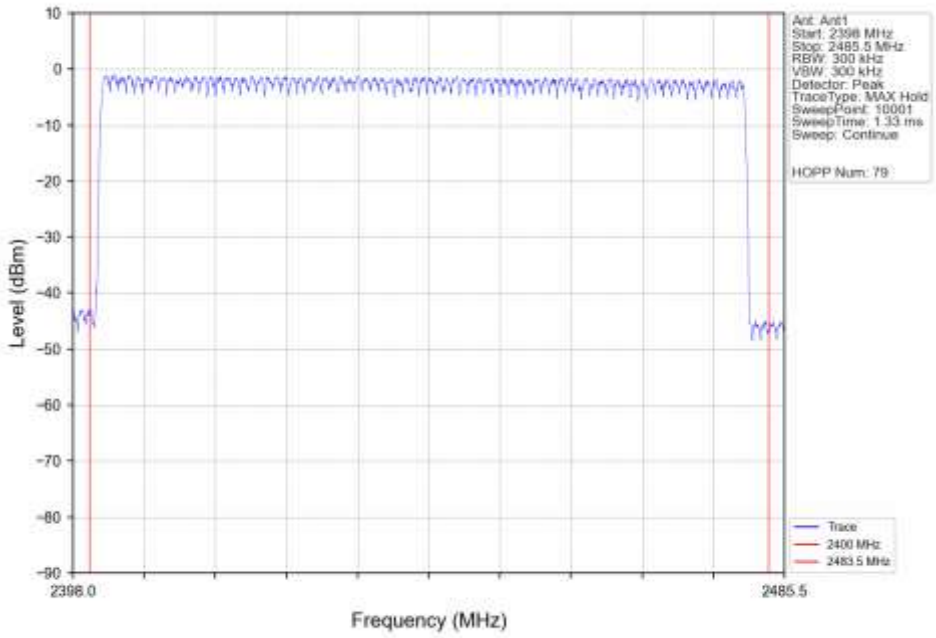
4.2.1 HoppNum

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV


5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.420	31.600	319	133.980	<=400	Pass
			DH3	1.674	31.600	161	269.514	<=400	Pass
			DH5	2.924	31.600	116	339.184	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.430	31.600	320	137.600	<=400	Pass
			2DH3	1.682	31.600	159	267.438	<=400	Pass
			2DH5	2.932	31.600	106	310.792	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.430	31.600	320	137.600	<=400	Pass
			3DH3	1.682	31.600	157	264.074	<=400	Pass
			3DH5	2.932	31.600	100	293.200	<=400	Pass

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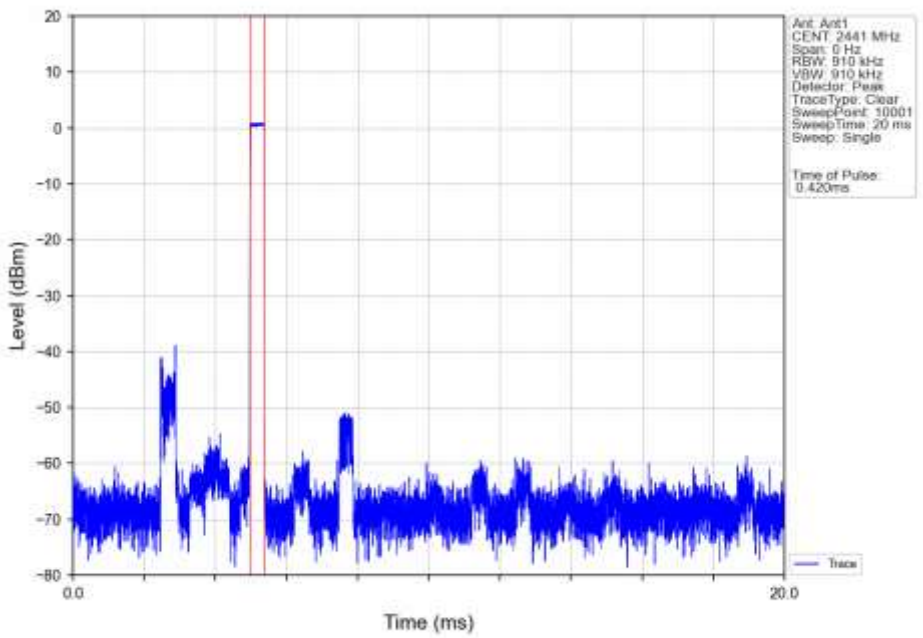
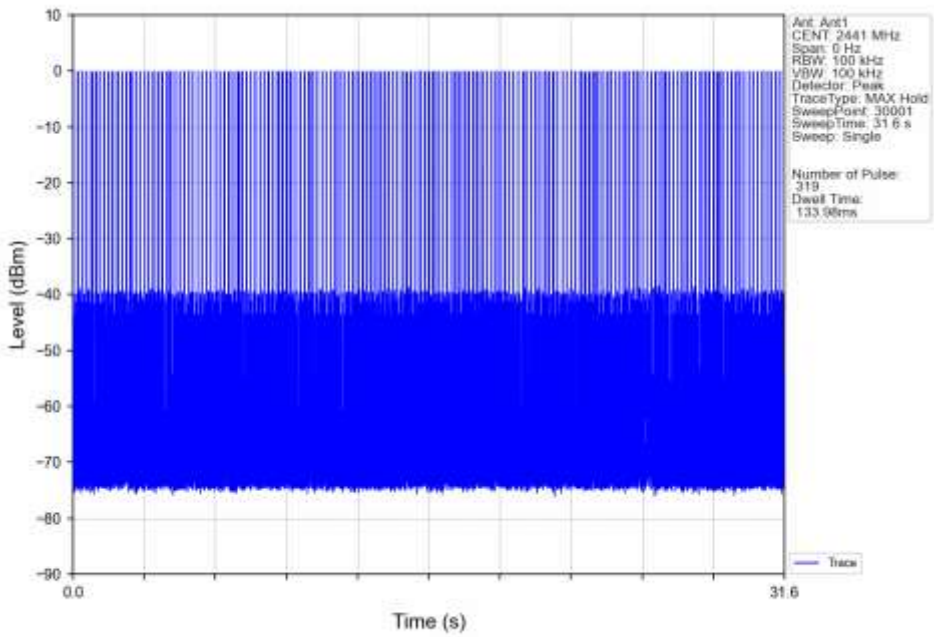
5.2 Test Graph

5.2.1 Ant1

GFSK_DH1_HOPP_Ant1_NTNV



GFSK_DH1_HOPP_Ant1_NTNV



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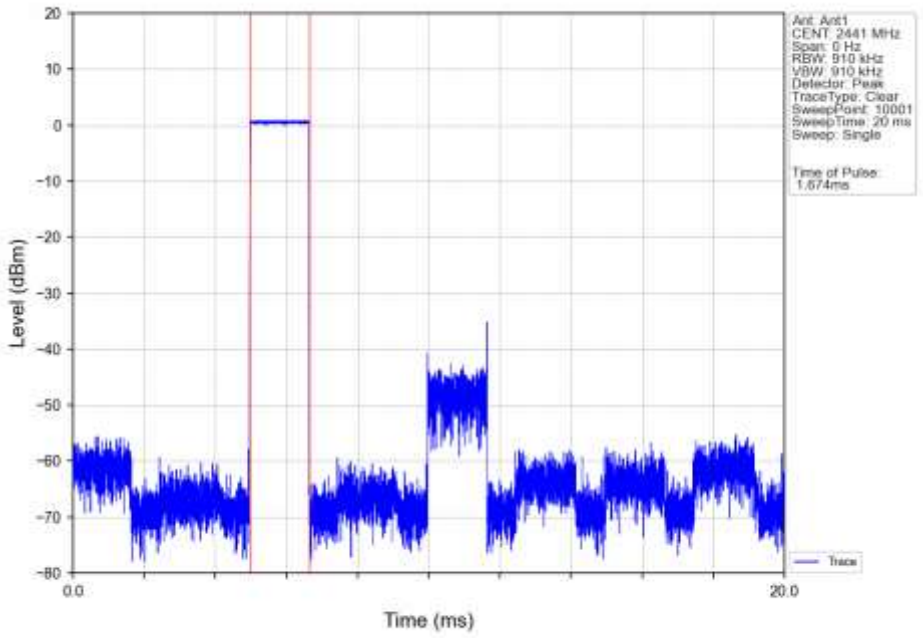

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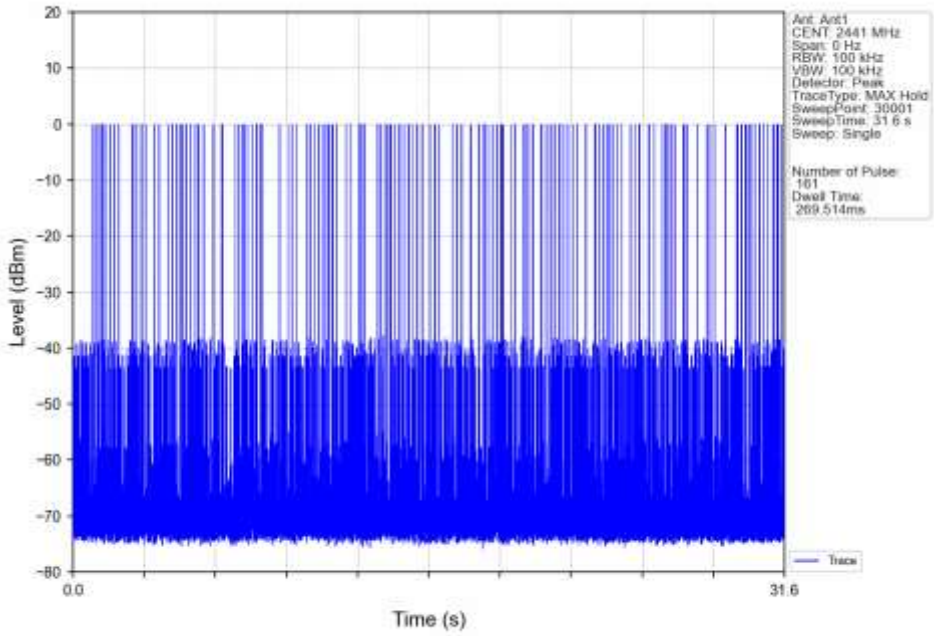
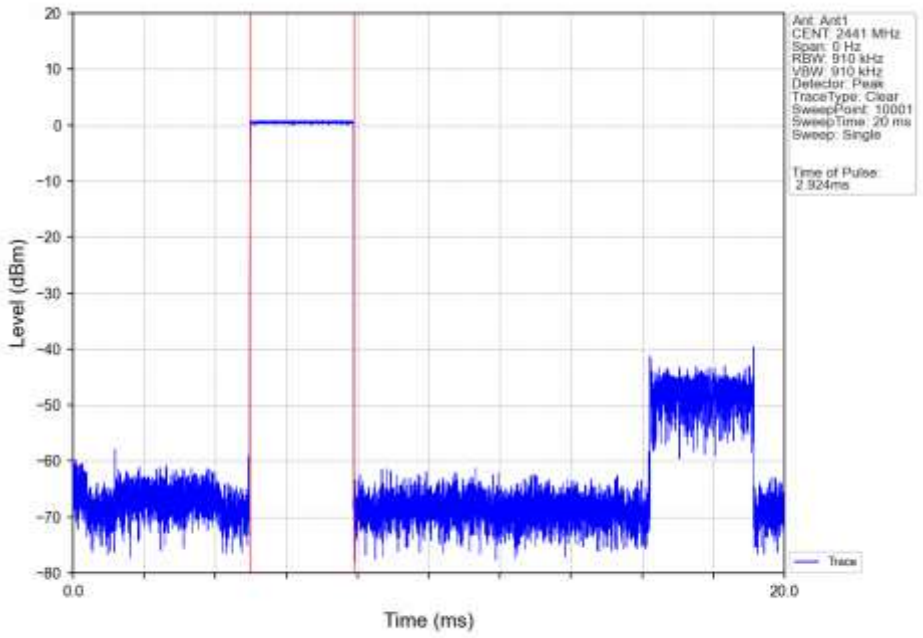
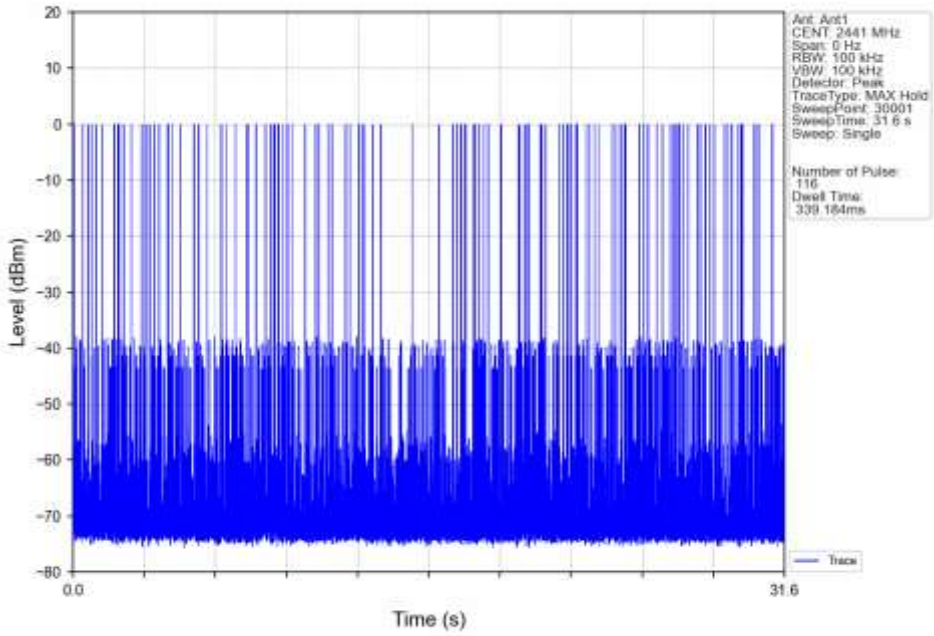


GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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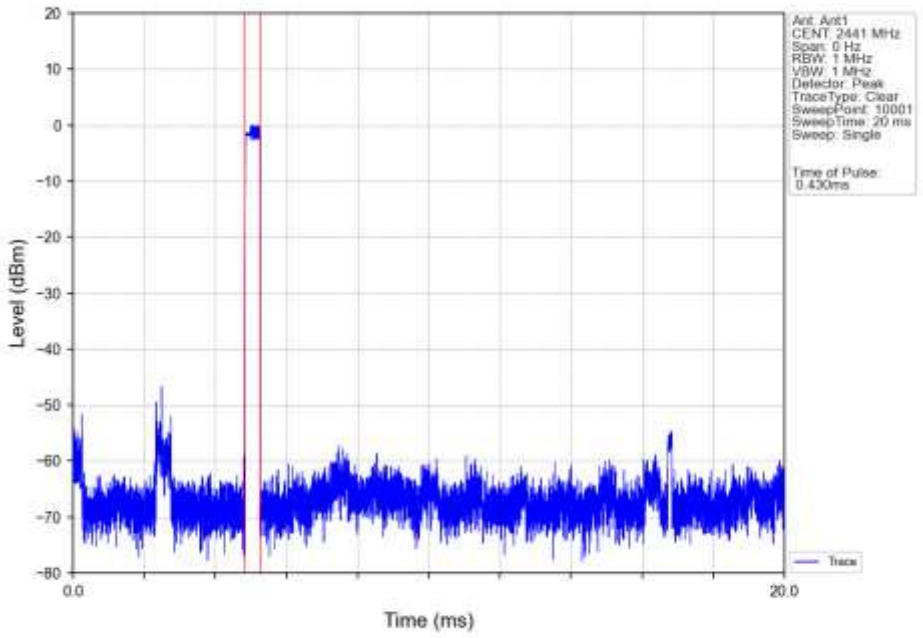

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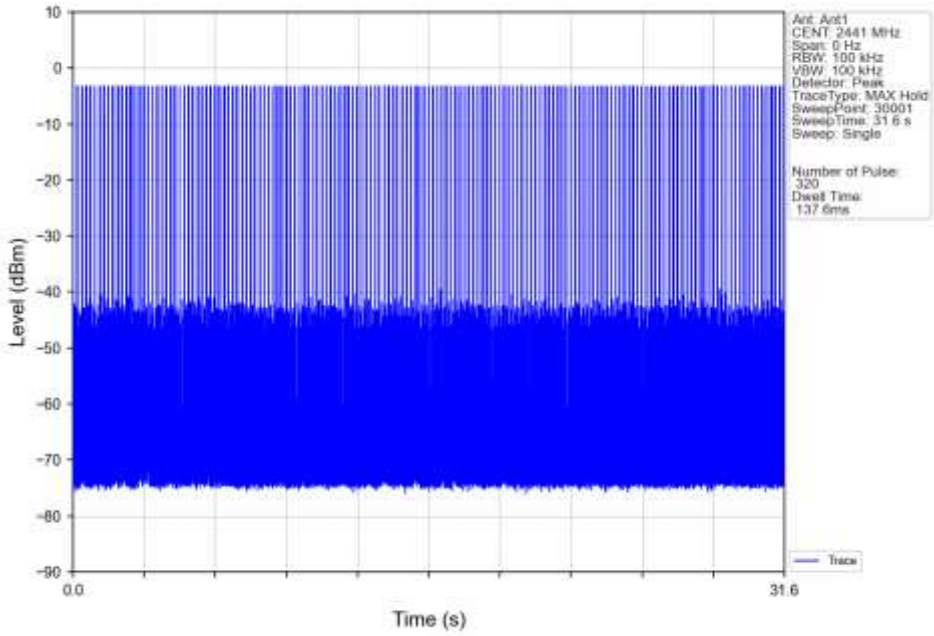

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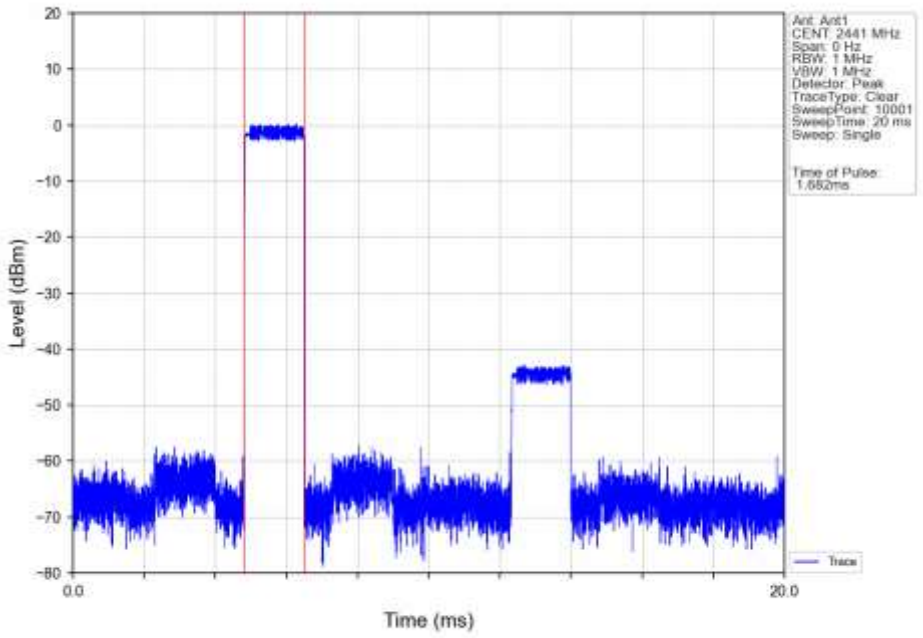

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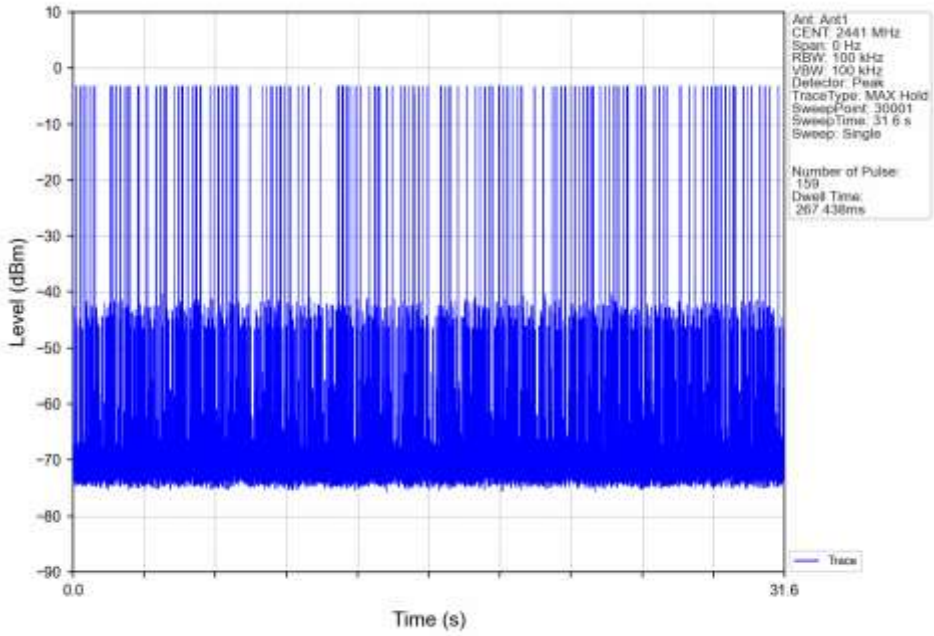

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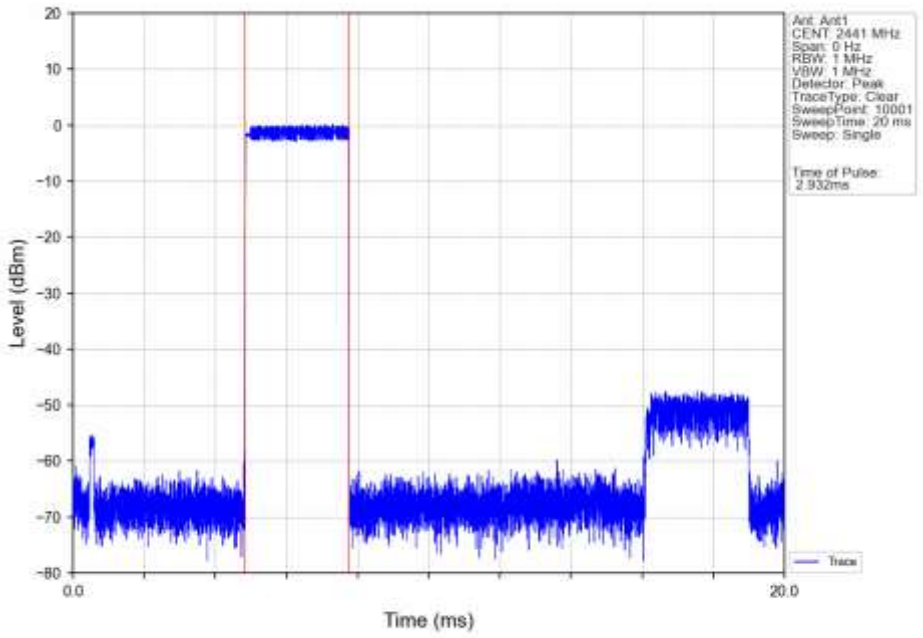

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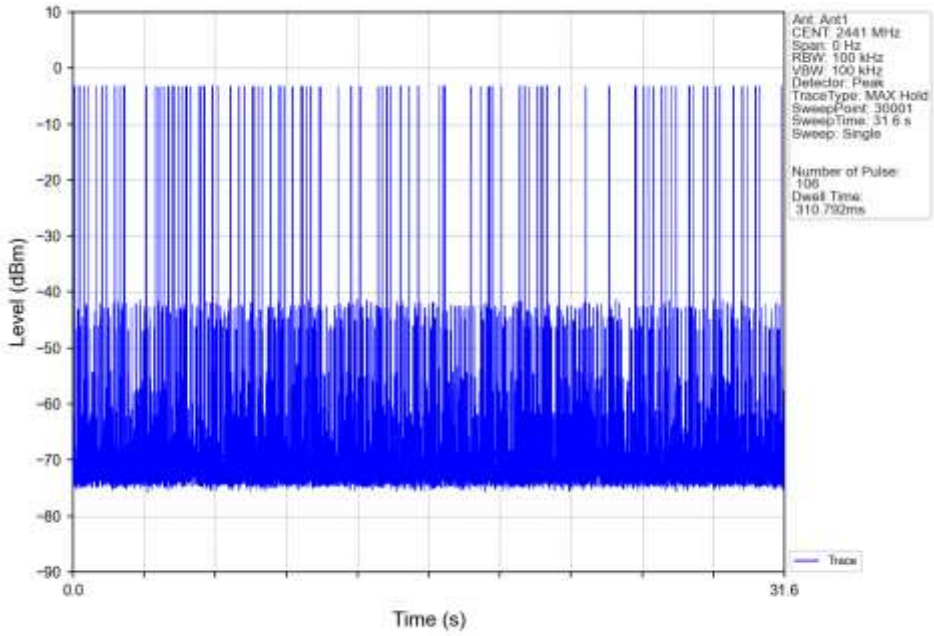

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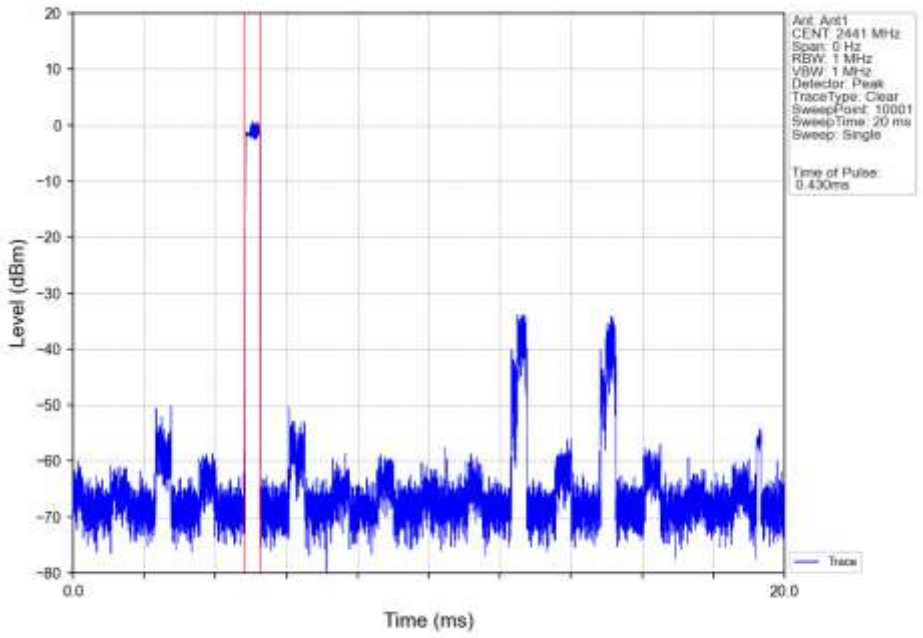

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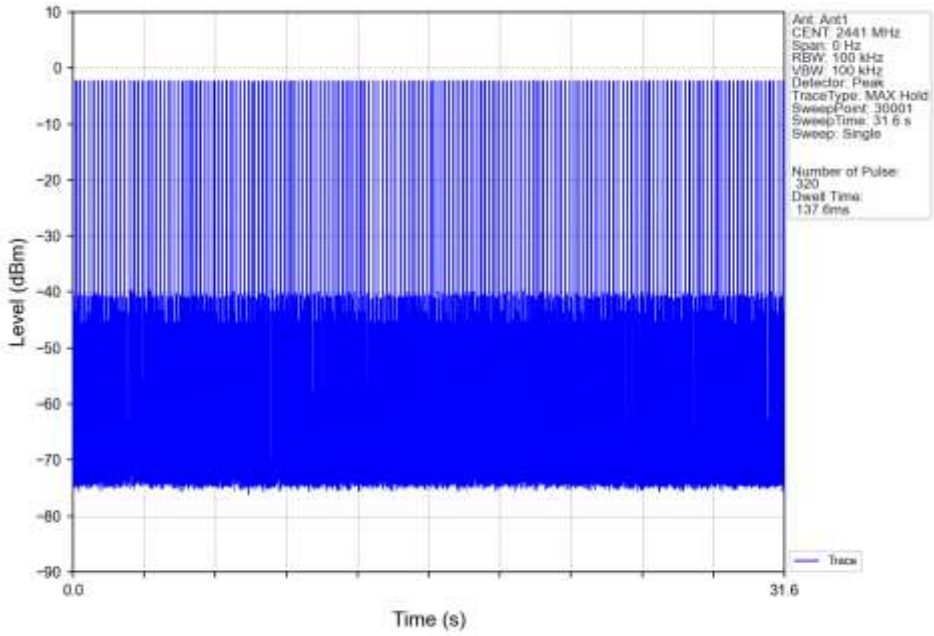

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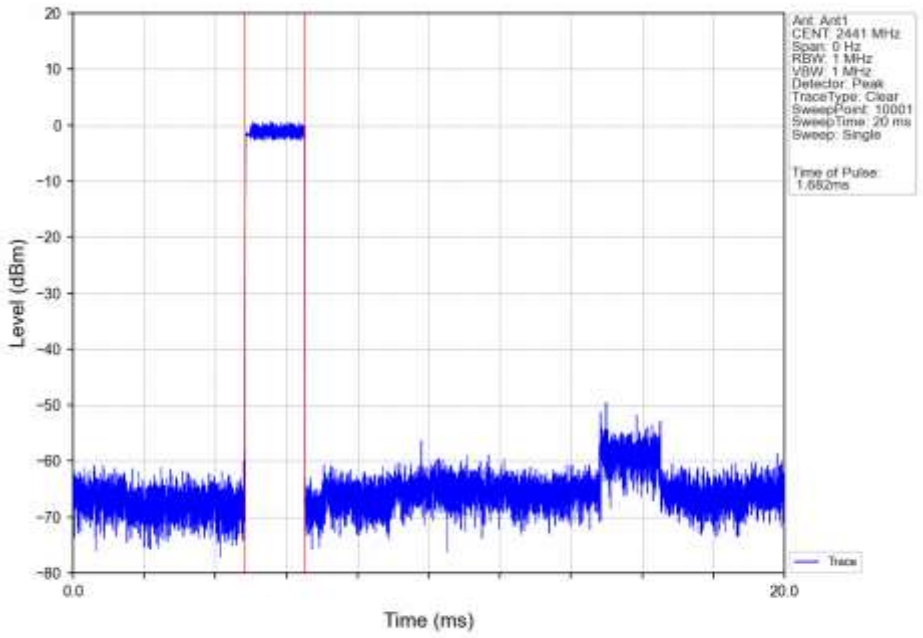

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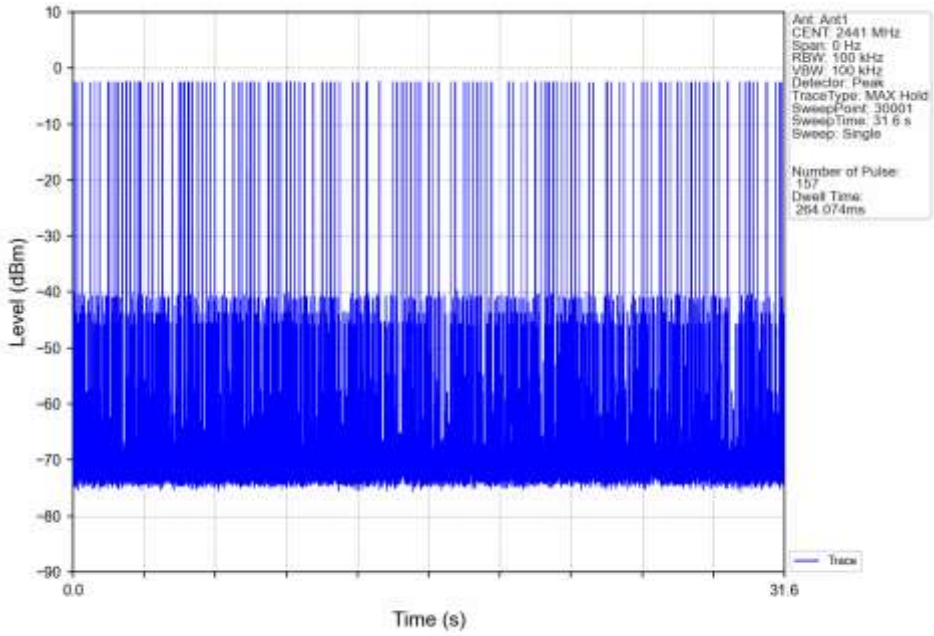

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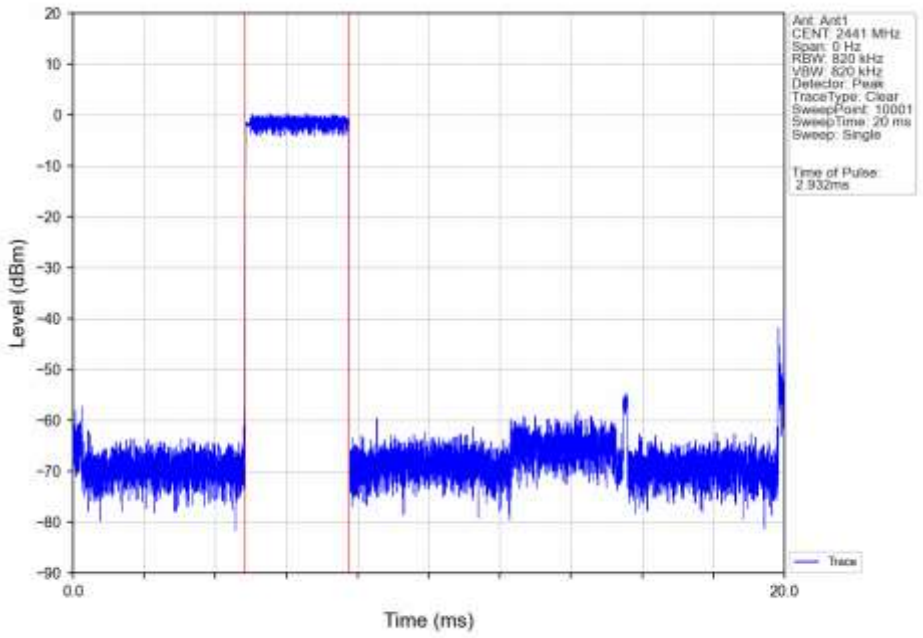

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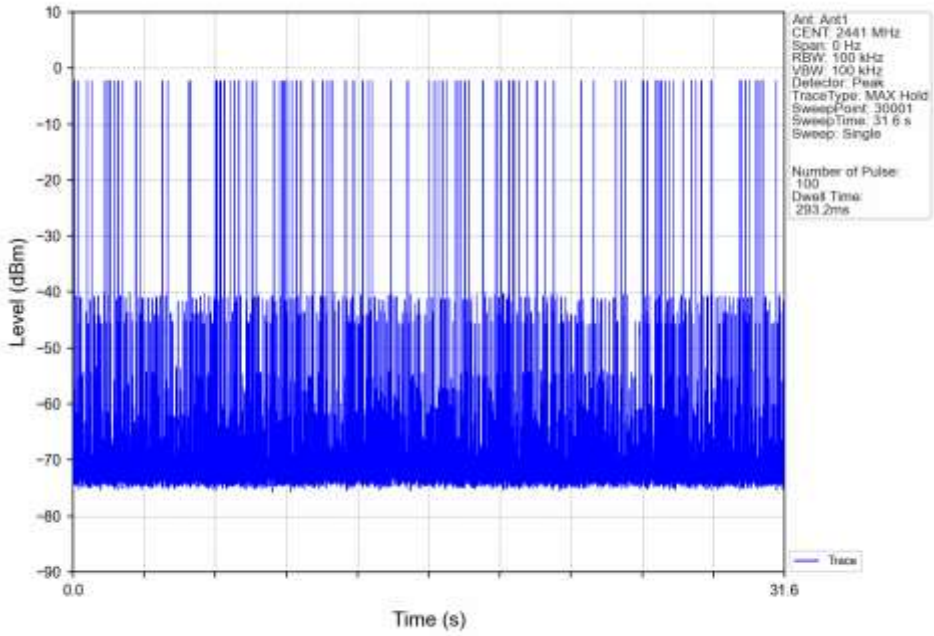

6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.32
		2441	DH5	1	2.02
		2480	DH5	1	2.82
Pi/4DQPSK	SISO	2402	2DH5	1	-0.44
		2441	2DH5	1	1.81
		2480	2DH5	1	2.65
8DPSK	SISO	2402	3DH5	1	-0.32
		2441	3DH5	1	2.07
		2480	3DH5	1	2.90
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.					

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.32	-20.32	Pass
		2441	DH5	1	2.02	-17.98	Pass
		2480	DH5	1	2.82	-17.18	Pass
		HOPP	DH5	1	2.82	-17.18	Pass
					2.82	-17.18	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.44	-20.44	Pass
		2441	2DH5	1	1.81	-18.19	Pass
		2480	2DH5	1	2.65	-17.35	Pass
		HOPP	2DH5	1	2.65	-17.35	Pass
					2.65	-17.35	Pass
8DPSK	SISO	2402	3DH5	1	-0.32	-20.32	Pass
		2441	3DH5	1	2.07	-17.93	Pass
		2480	3DH5	1	2.9	-17.1	Pass
		HOPP	3DH5	1	2.90	-17.10	Pass
					2.90	-17.10	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.							

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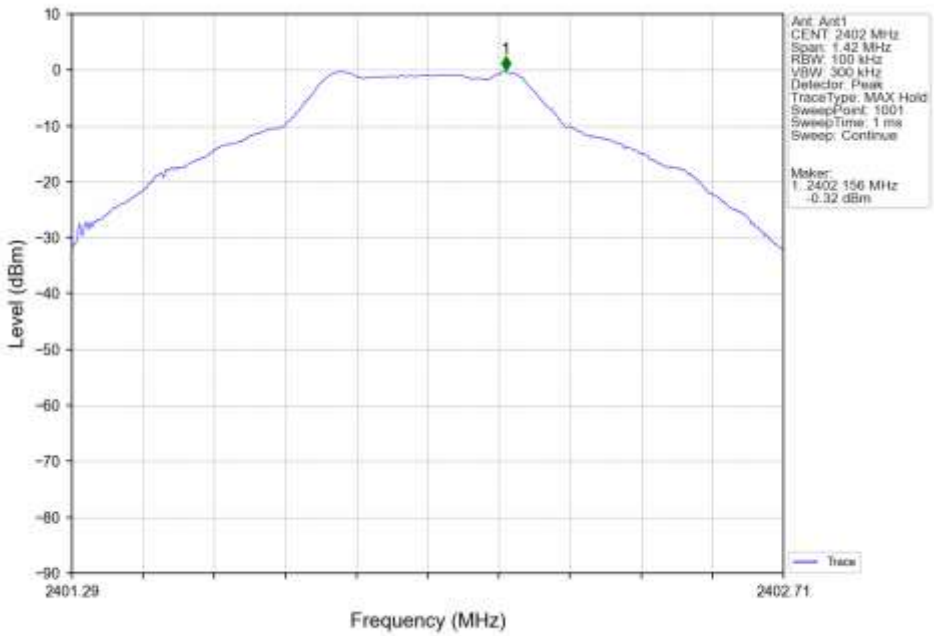
BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

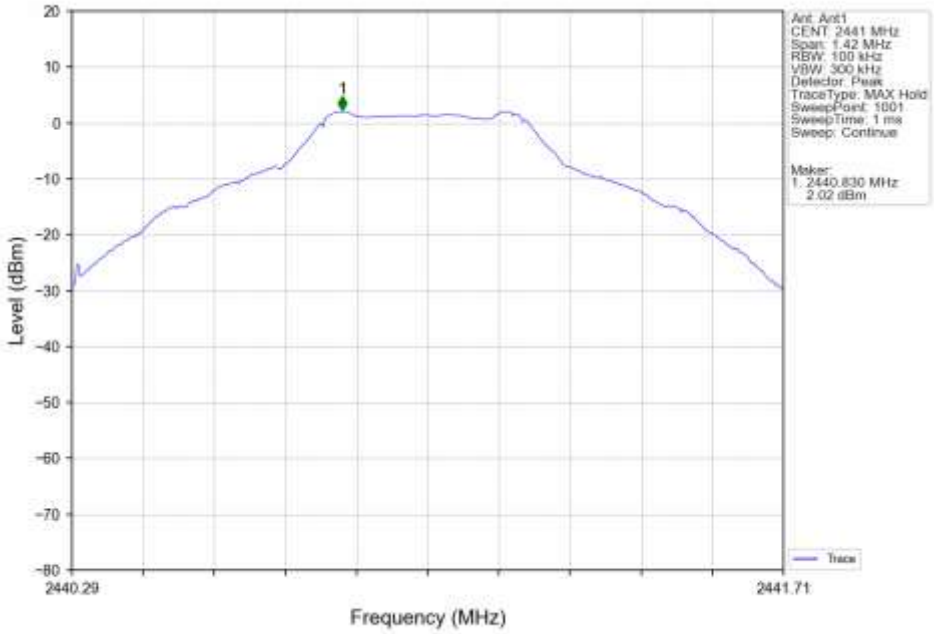
6.2 Test Graph

6.2.1 Ref

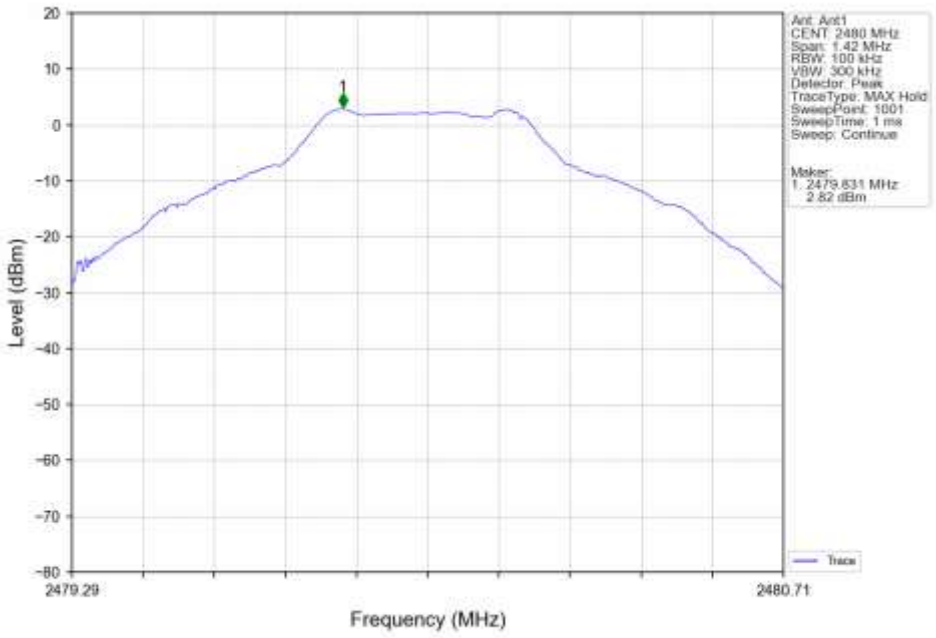
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



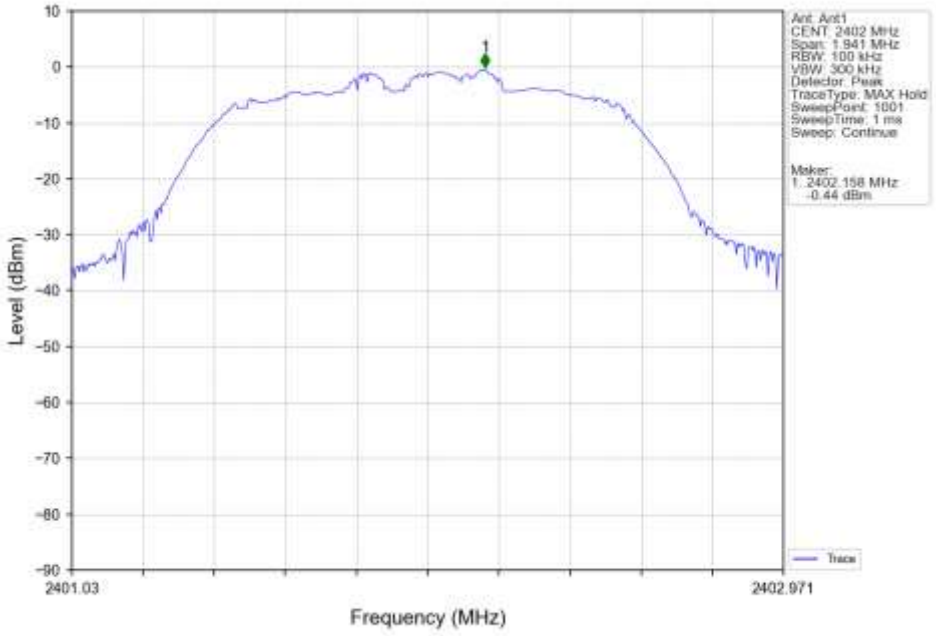
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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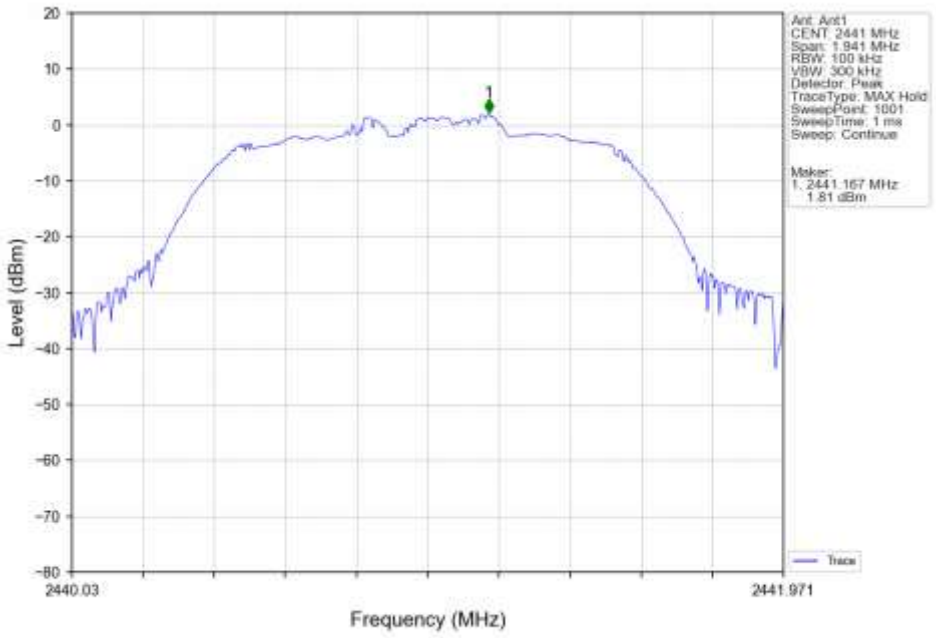
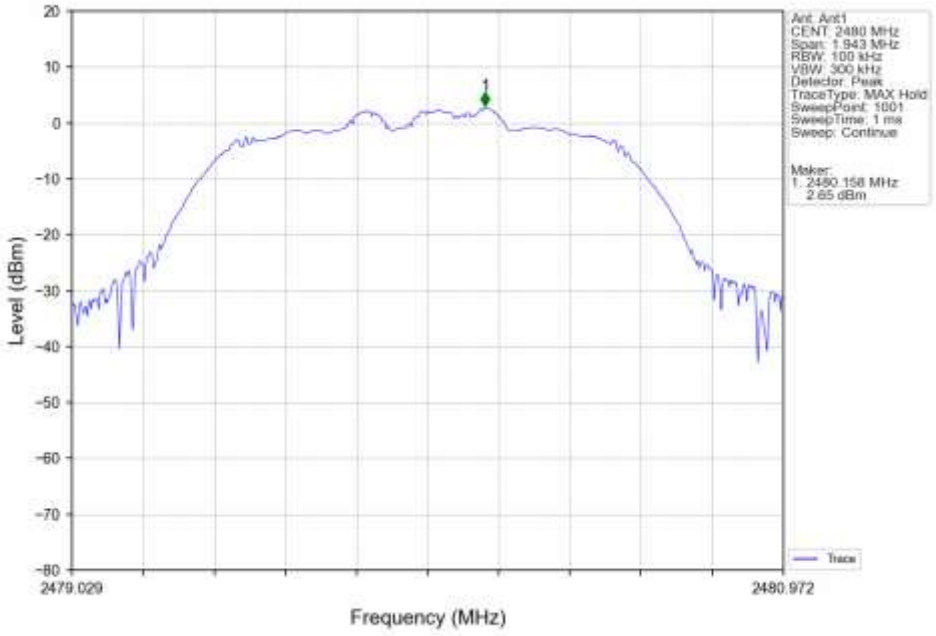
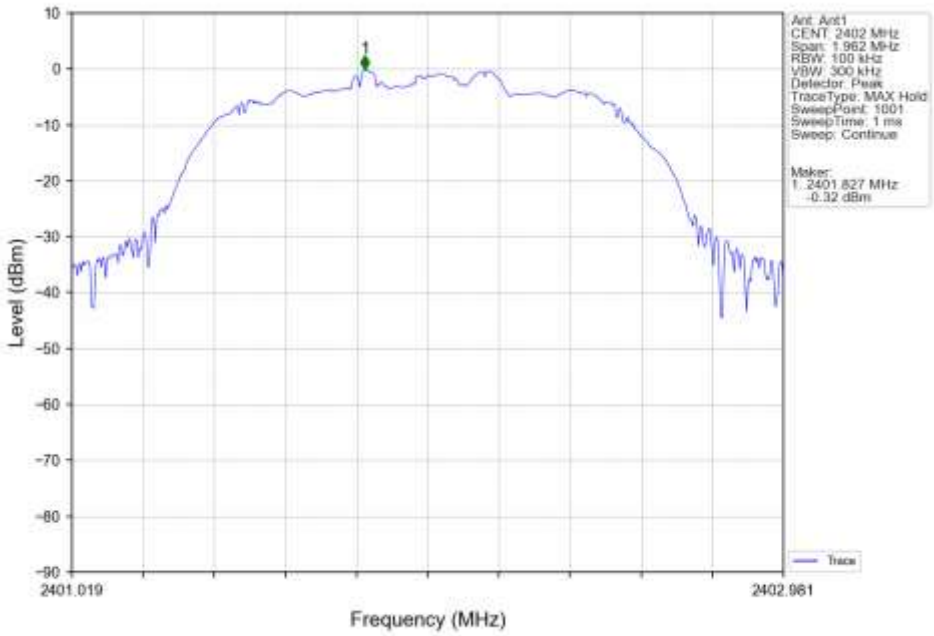


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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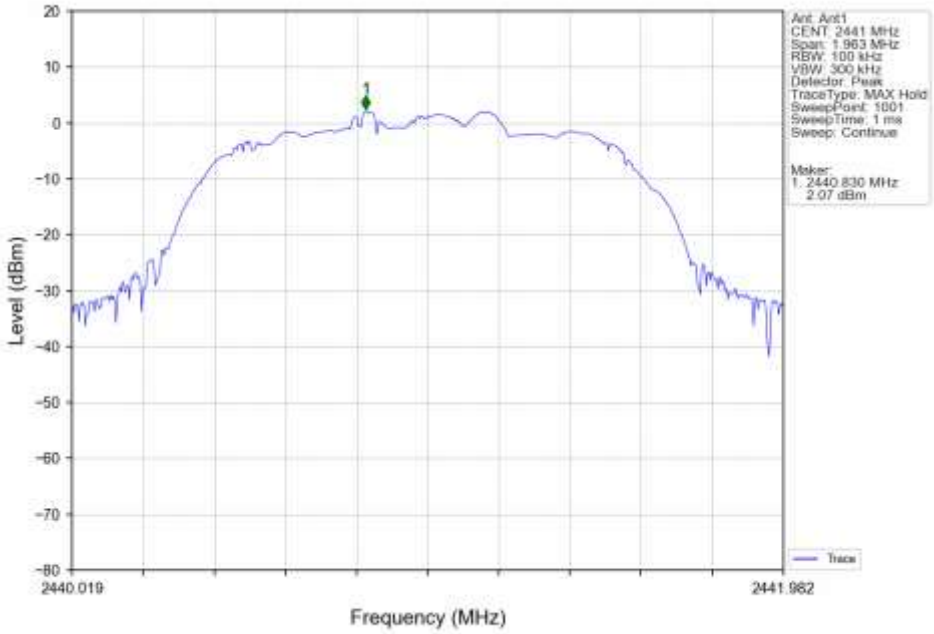

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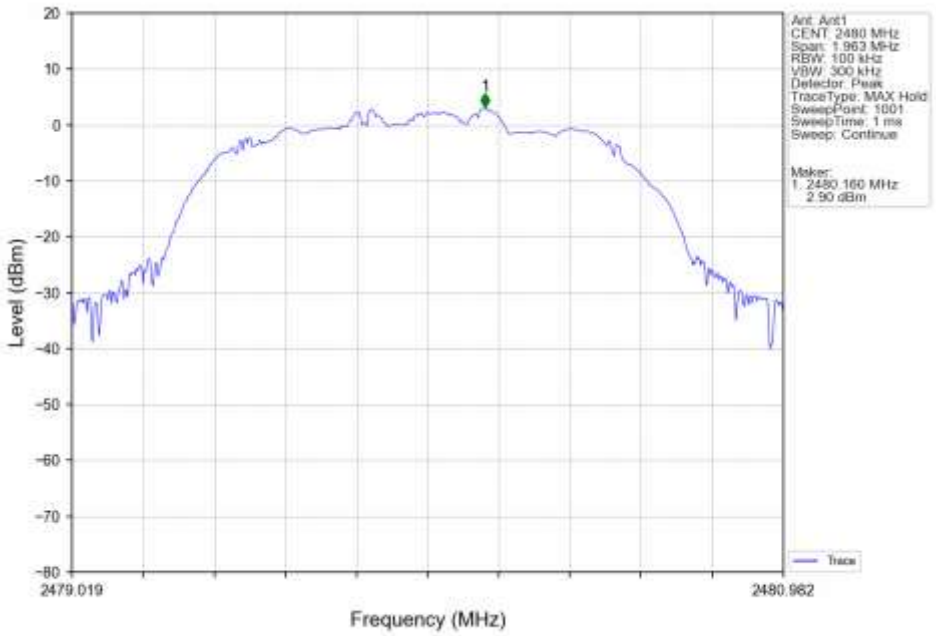
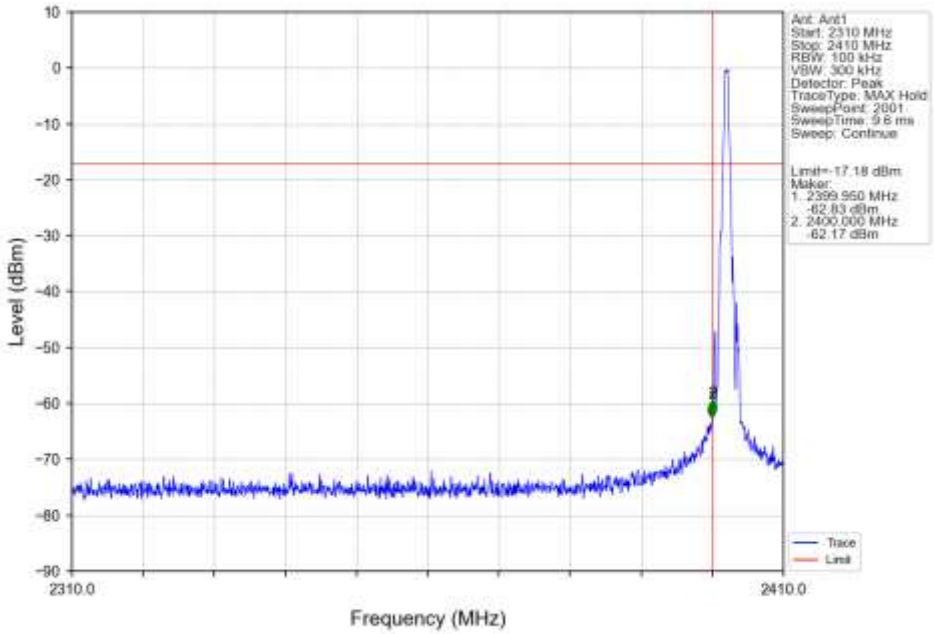
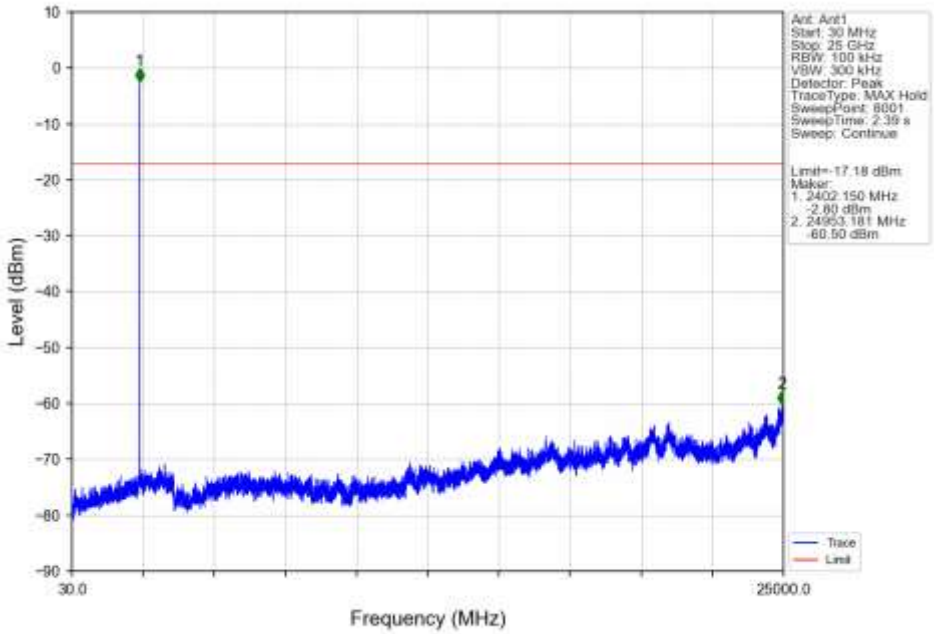


6.2.2 CSE

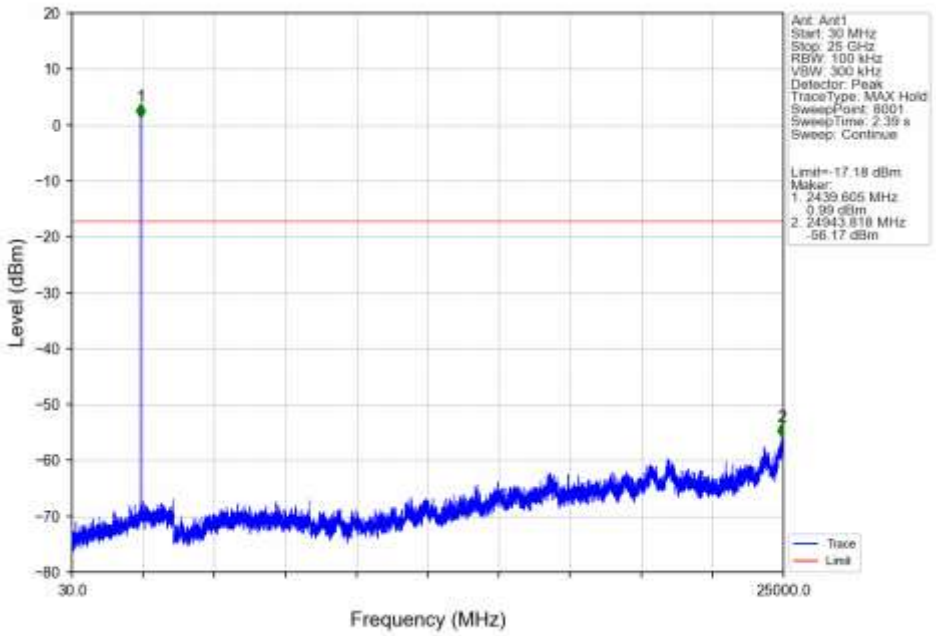
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



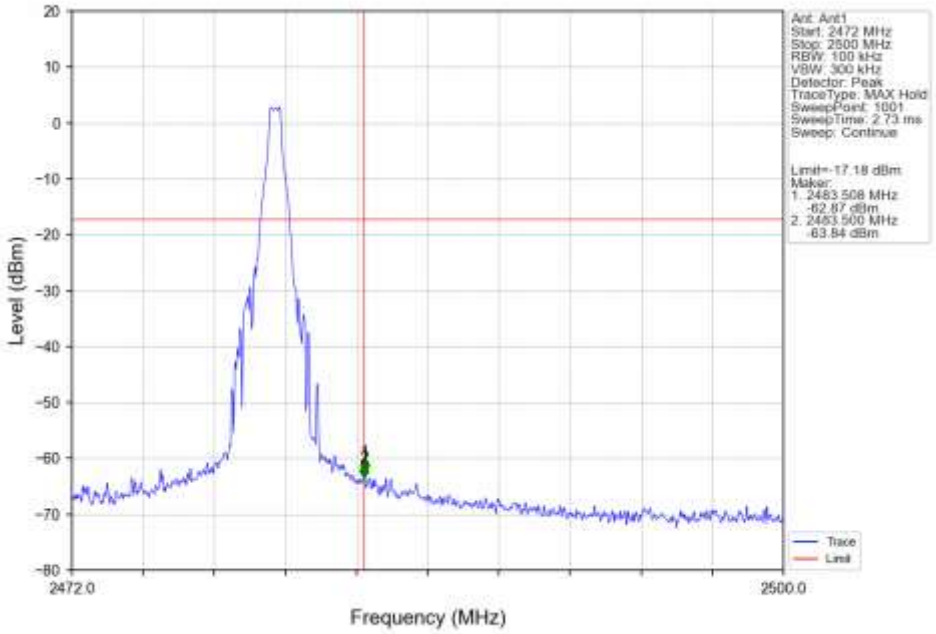
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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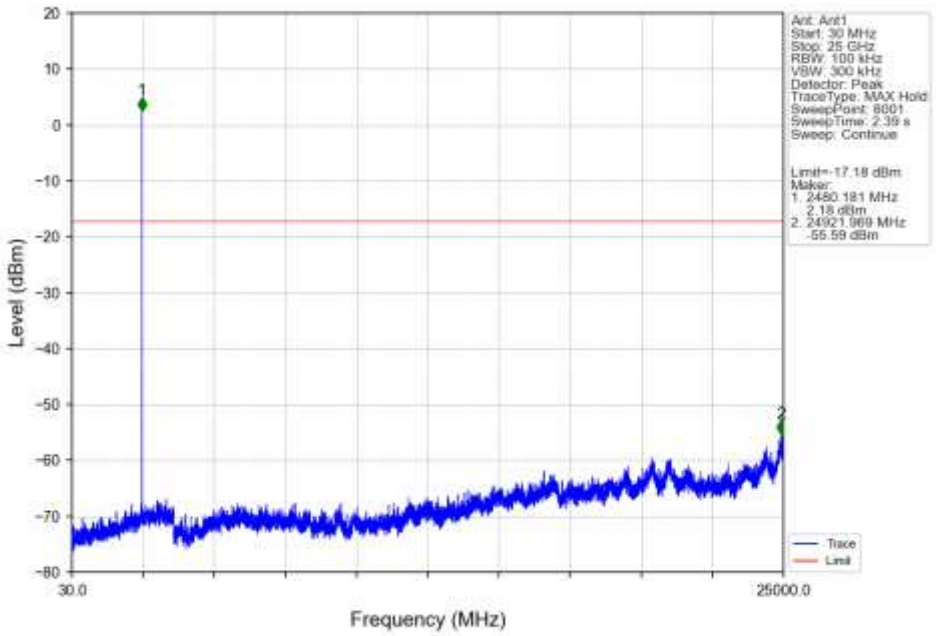
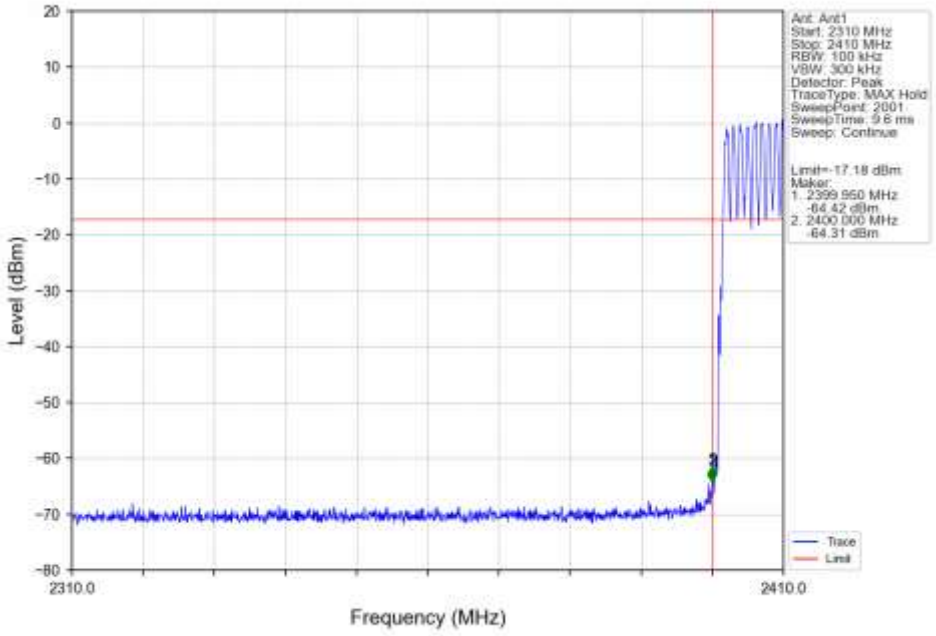


GFSK_DH5_HOPP_Ant1_NTNV



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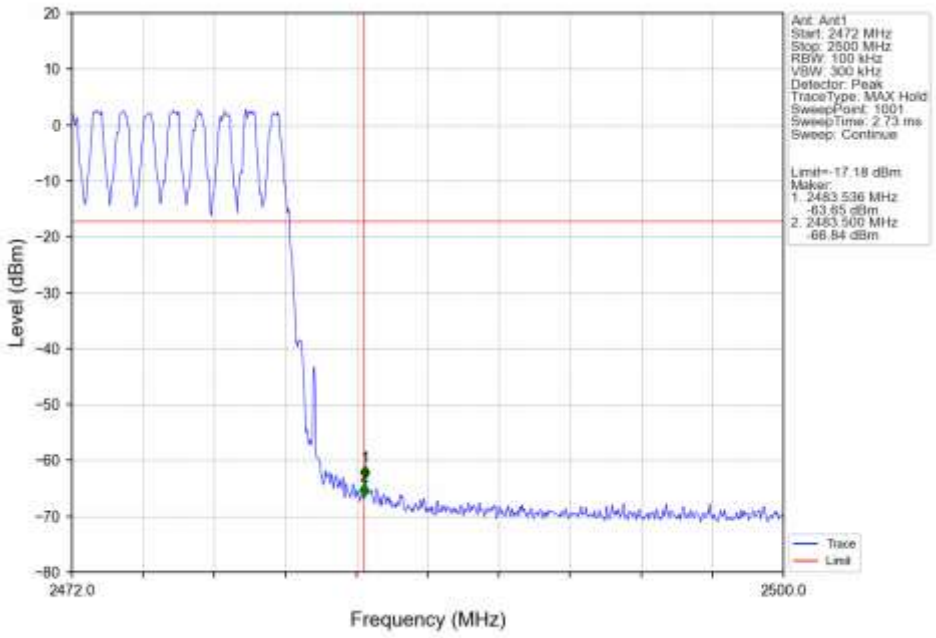
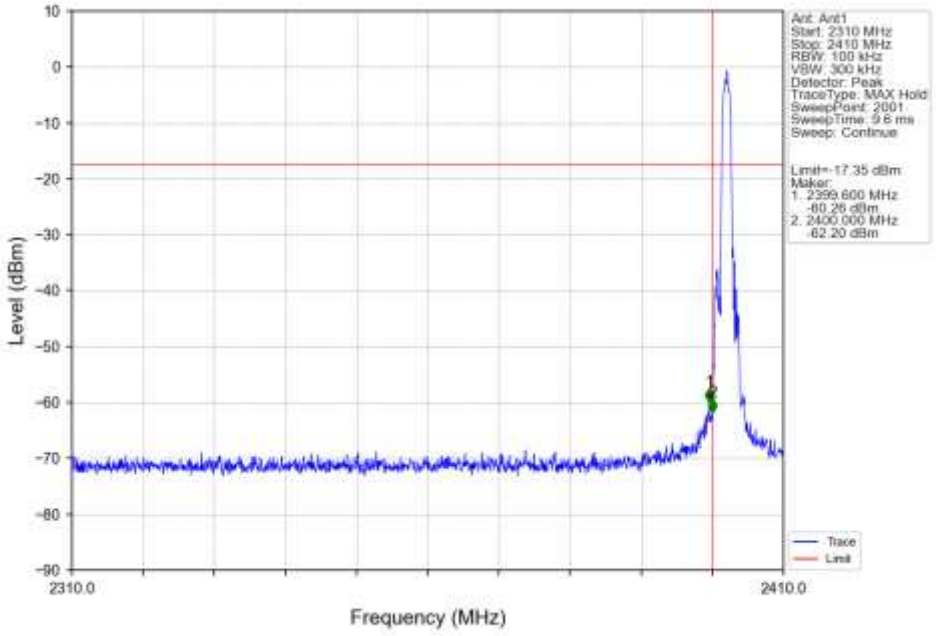


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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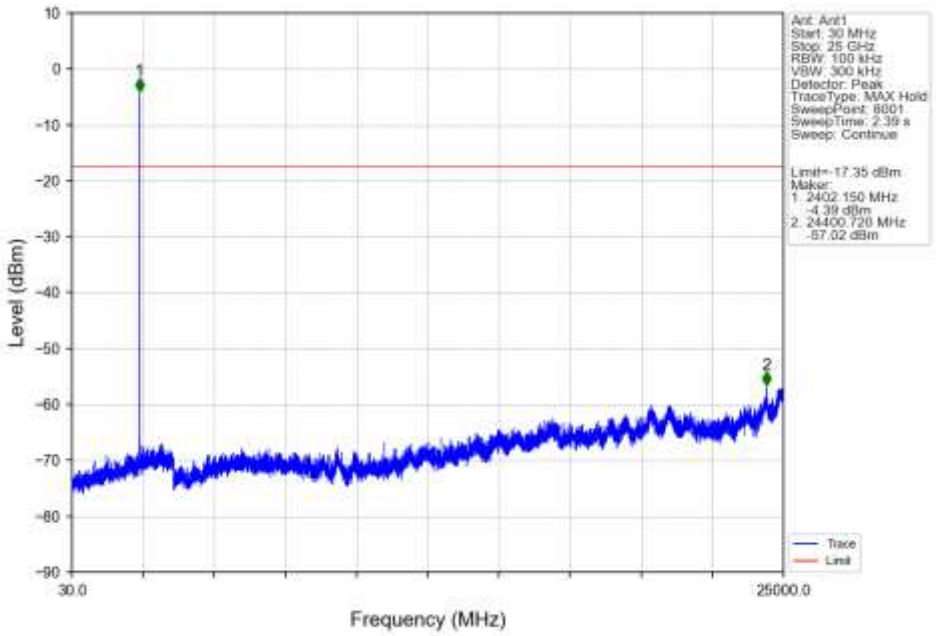

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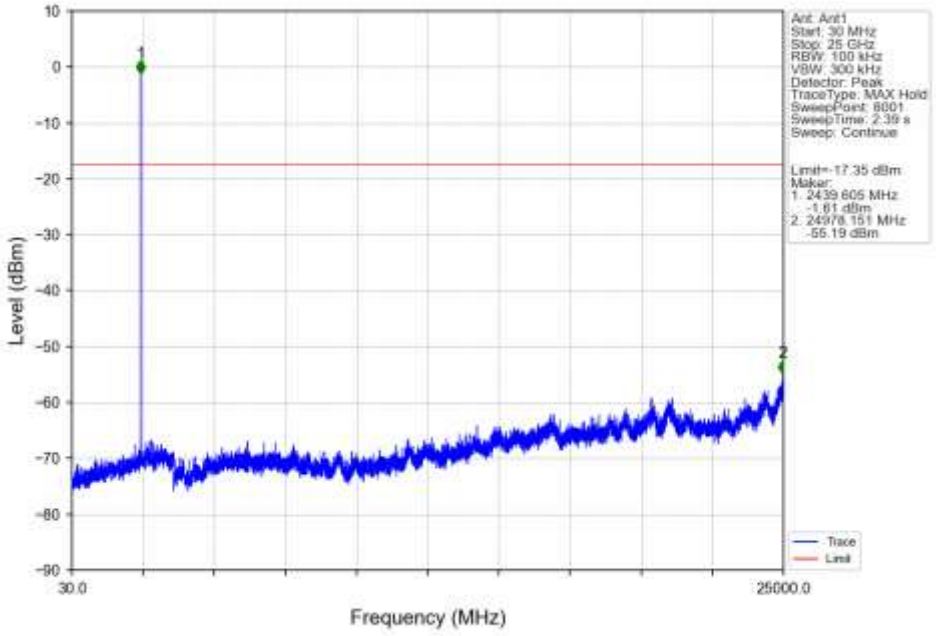

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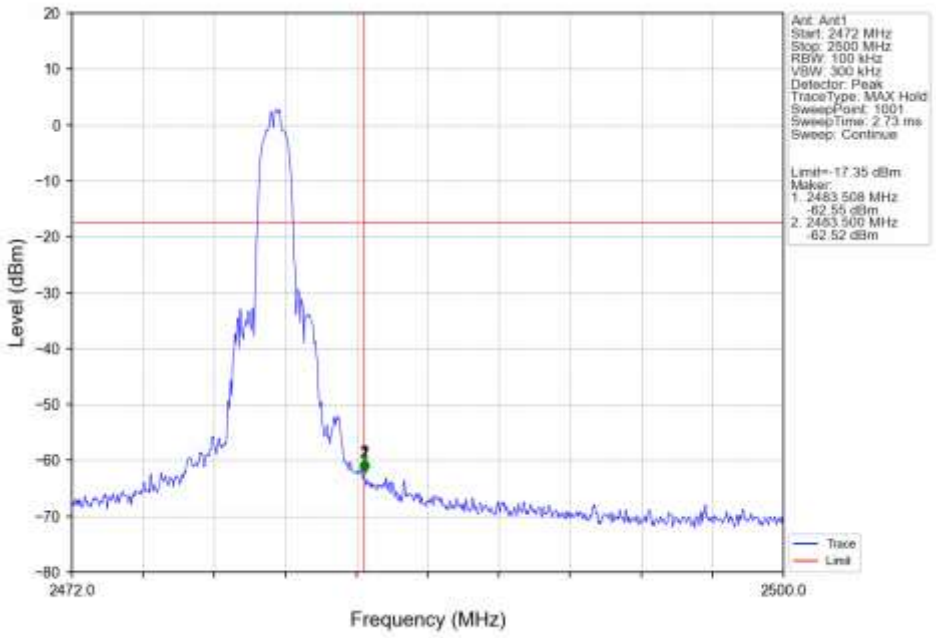

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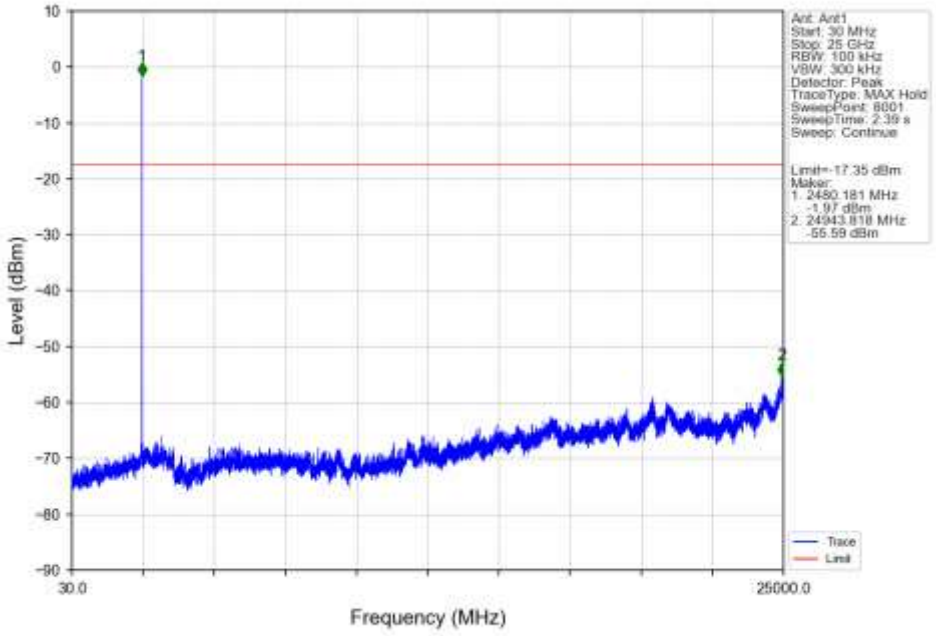

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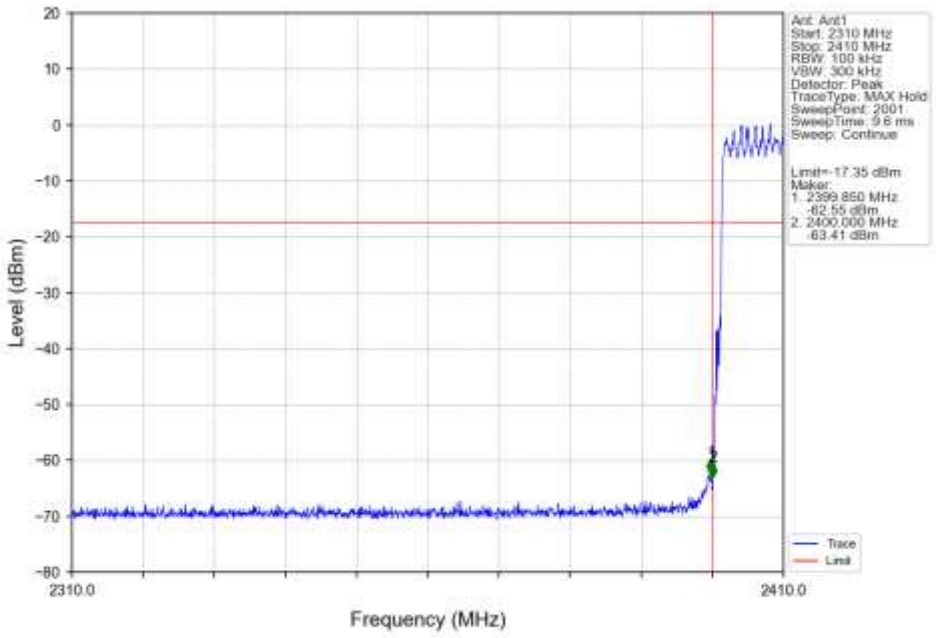

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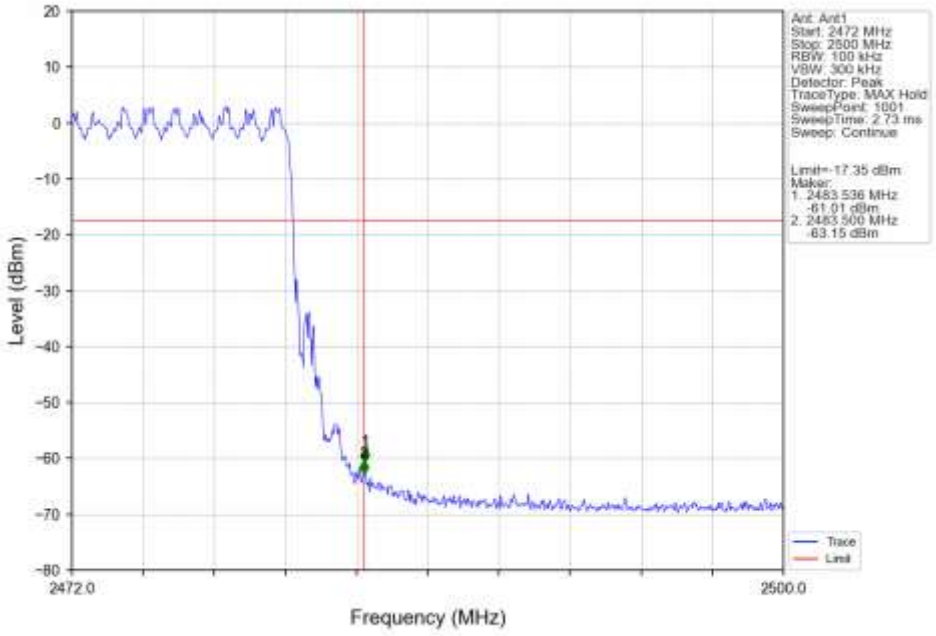
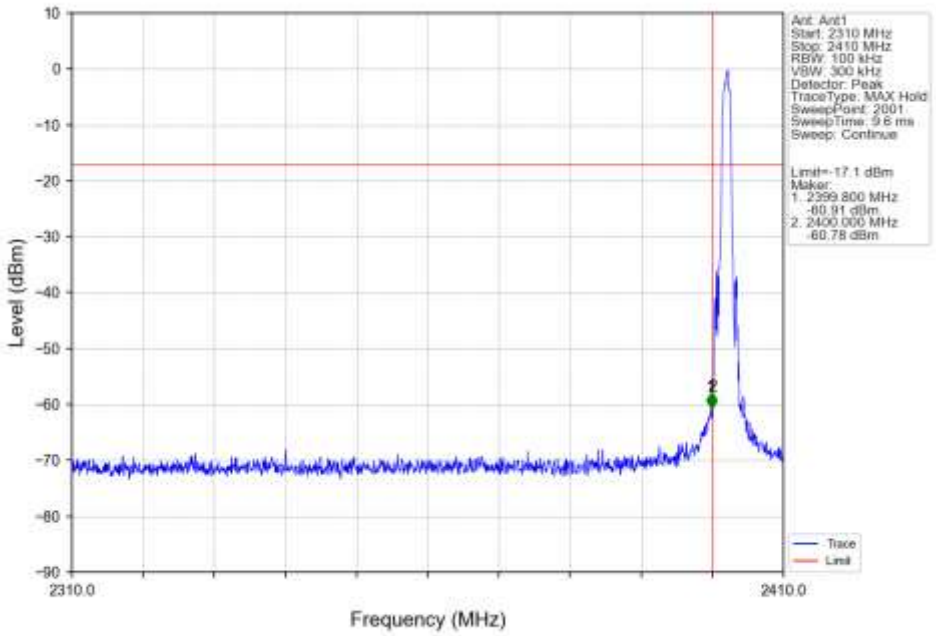


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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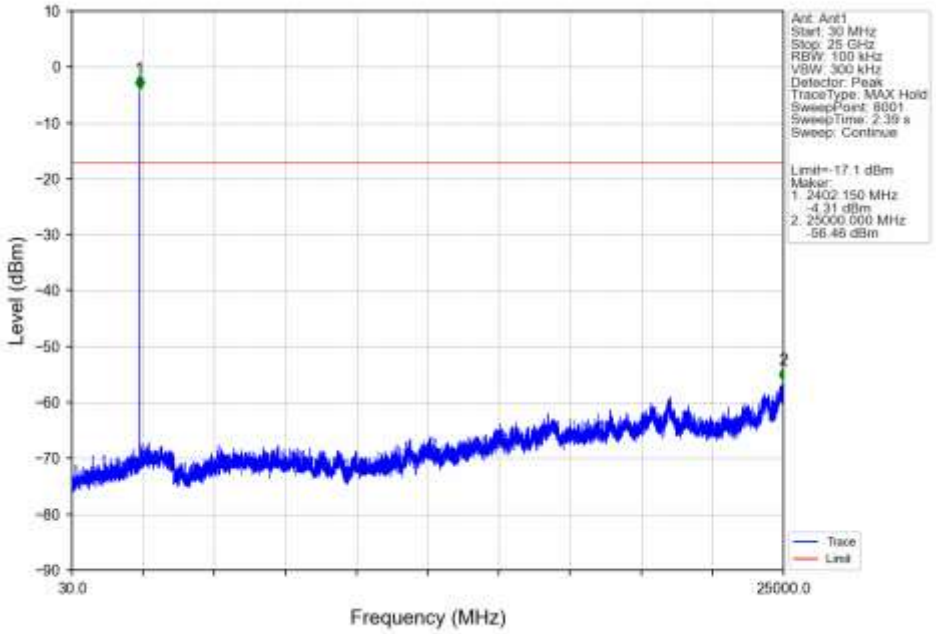
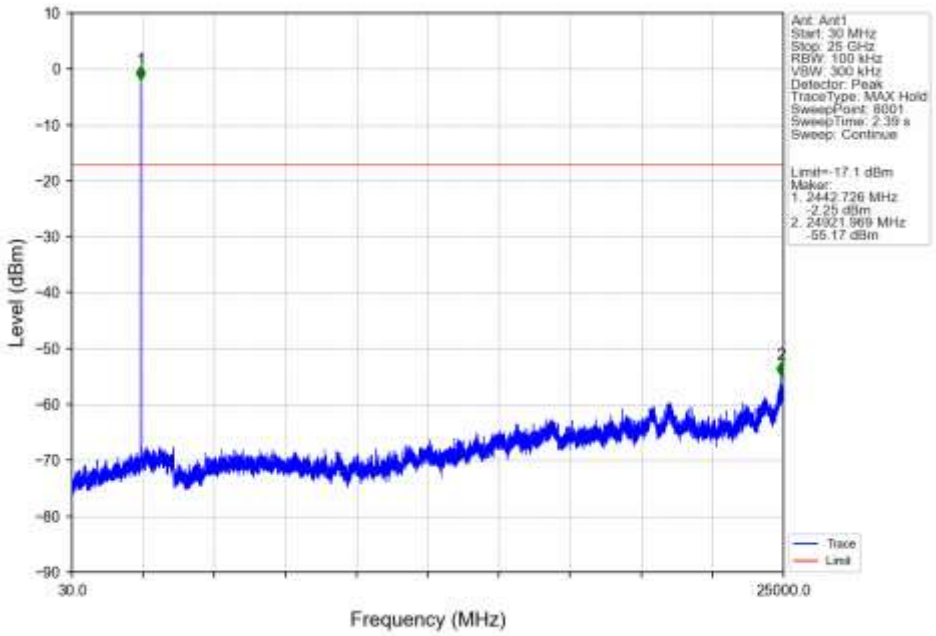
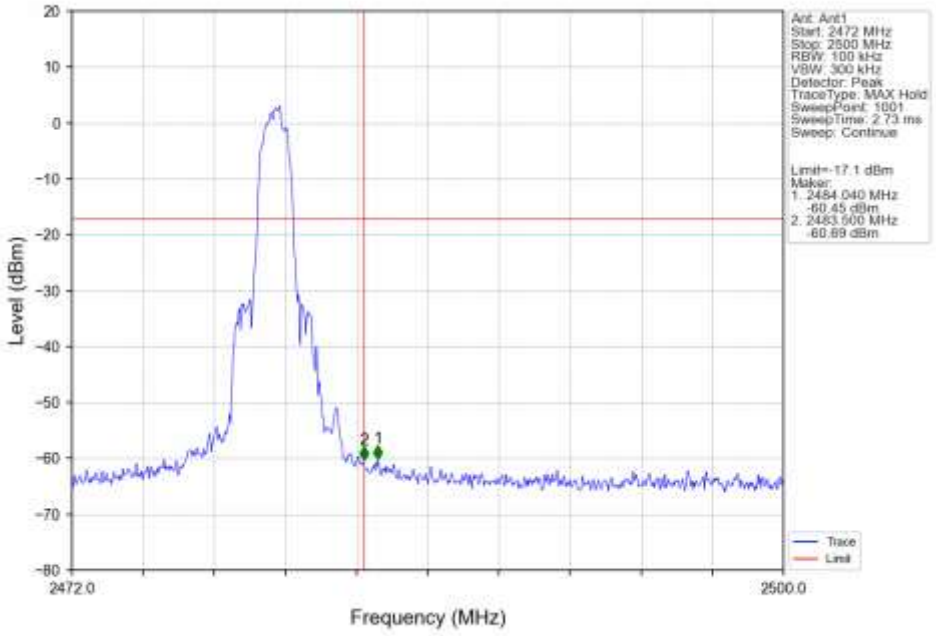


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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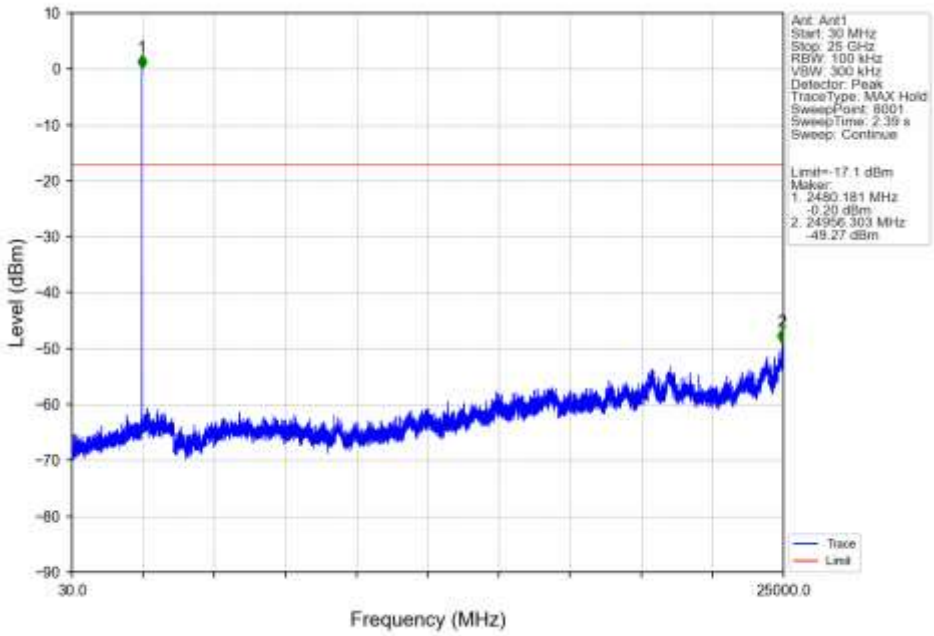

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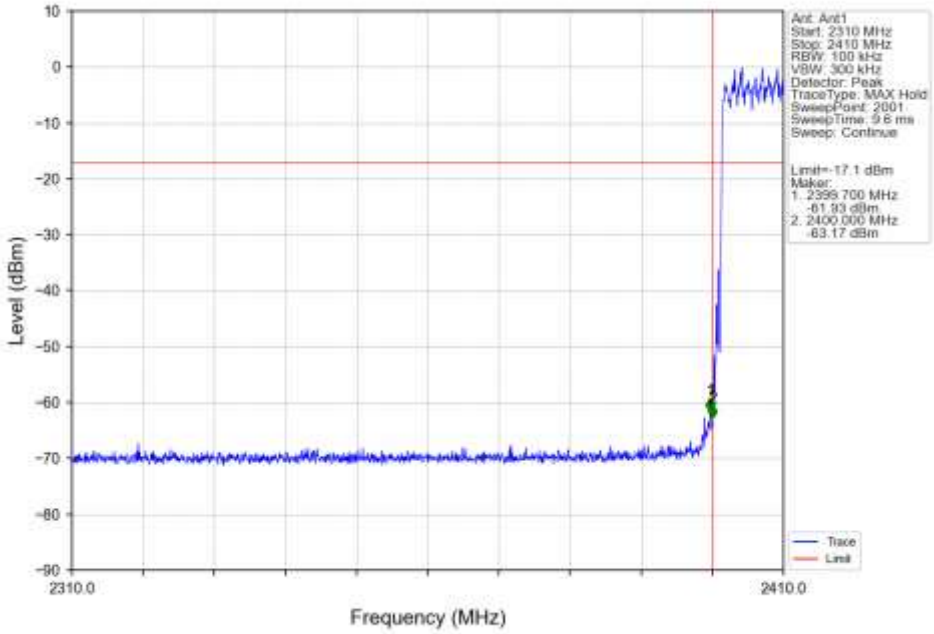

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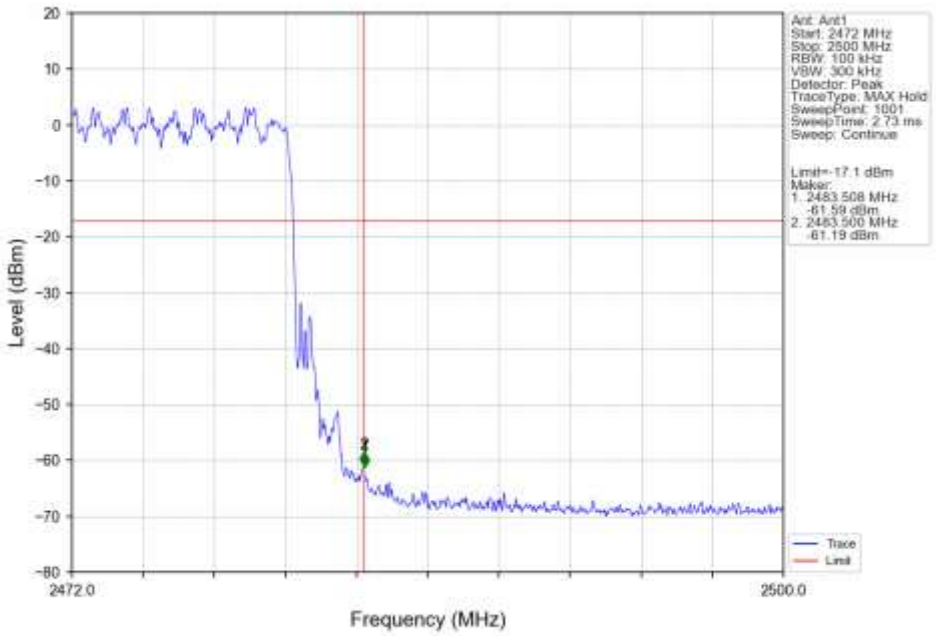

7. Form731

7.1 Test Result

7.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0015	1.62

BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com