

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 110 of 161

Left earbud

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
Mode	Tx Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.903	3.749	77.43	1.11	0.01
		2441	DH5	2.903	3.749	77.43	1.11	0.04
		2480	DH5	2.903	3.751	77.39	1.11	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.902	3.749	77.41	1.11	0.01
		2441	2DH5	2.901	3.749	77.38	1.11	0.01
		2480	2DH5	2.903	3.751	77.39	1.11	0.03
8DPSK	SISO	2402	3DH5	2.904	3.751	77.42	1.11	0.04
		2441	3DH5	2.904	3.750	77.44	1.11	0.03
		2480	3DH5	2.904	3.750	77.44	1.11	0.01



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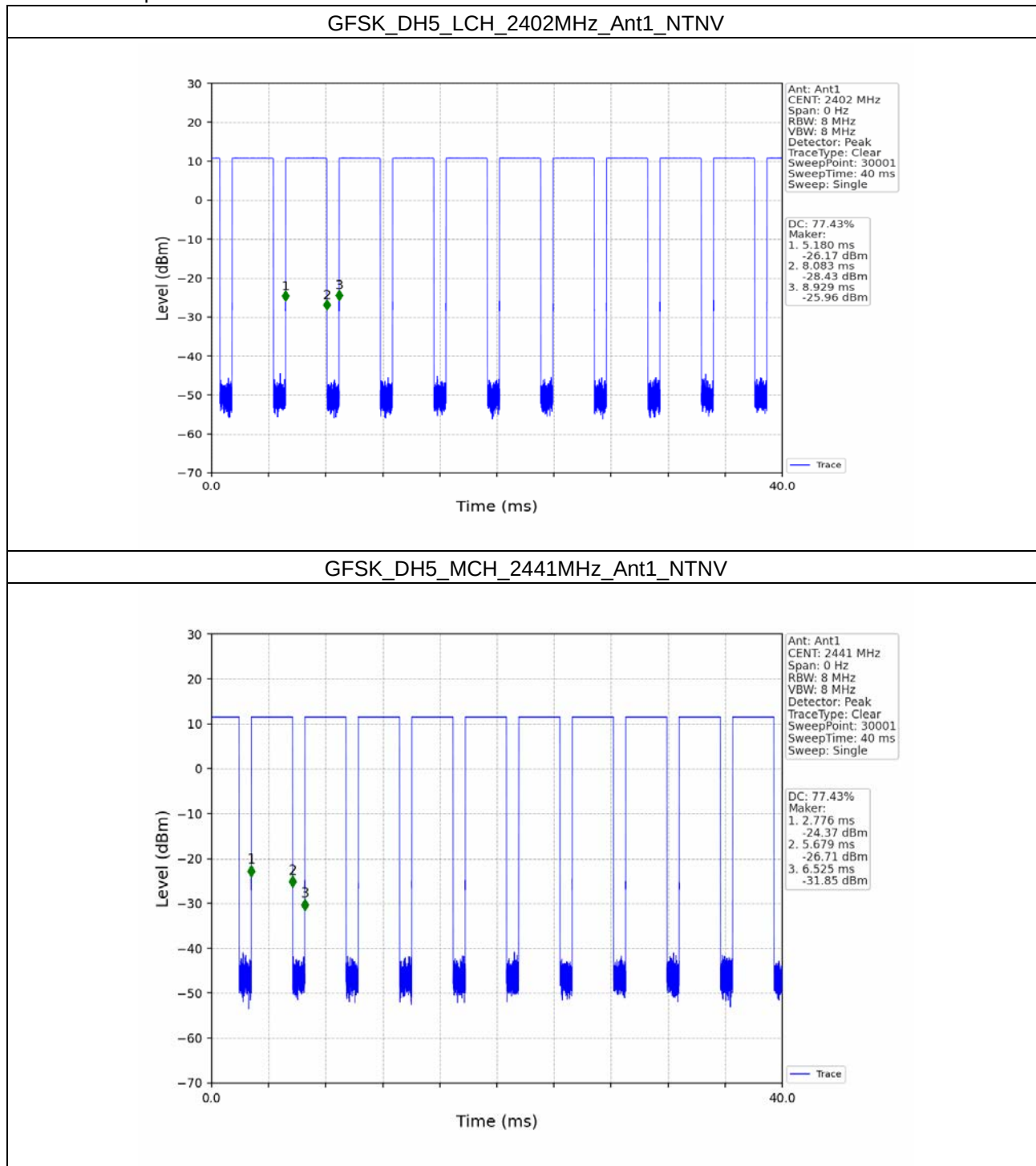
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 111 of 161

1.1.2 Test Graph



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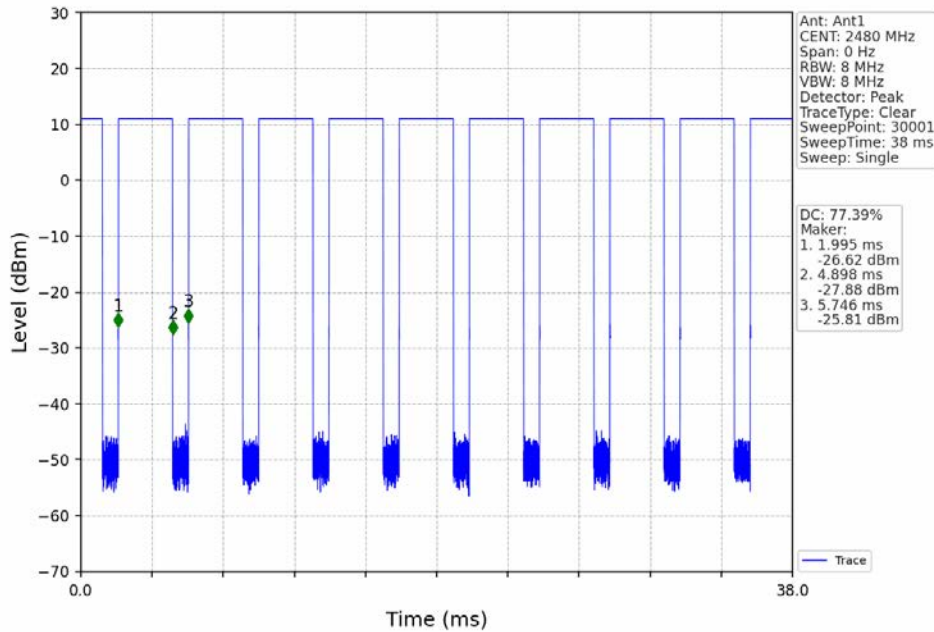
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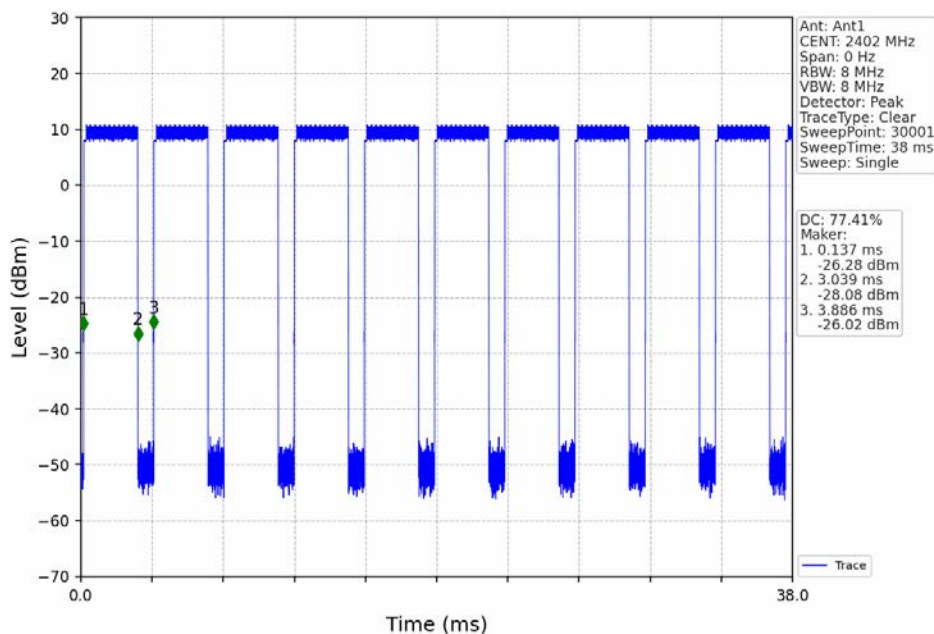
Report No.: FYCR221000041902

Page: 112 of 161

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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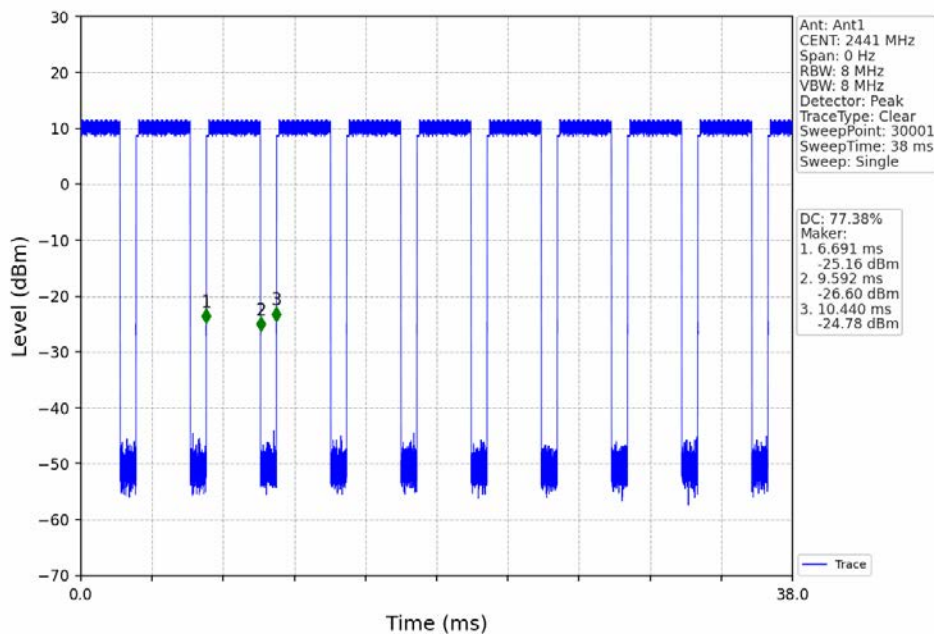
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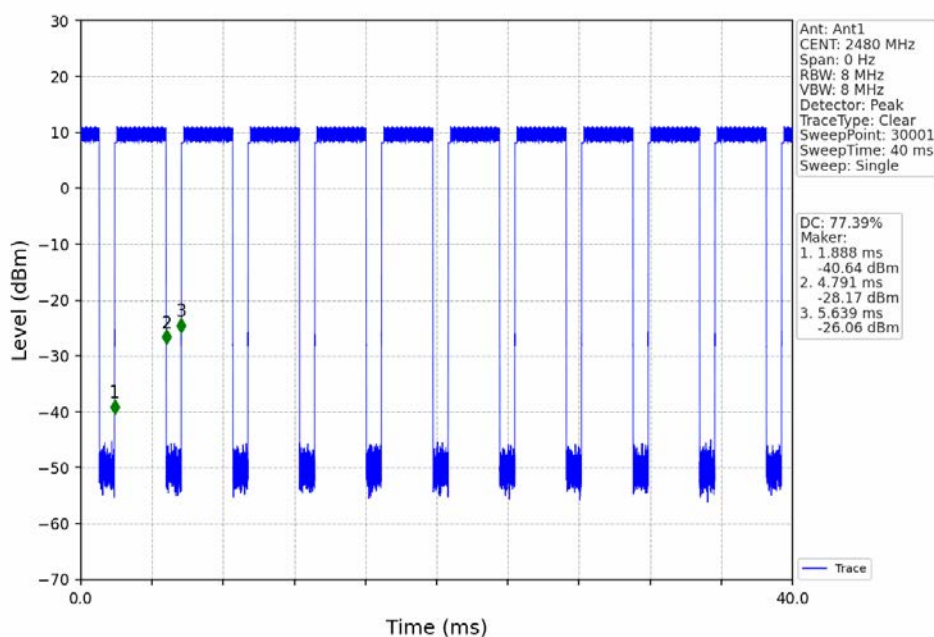
Report No.: FYCR221000041902

Page: 113 of 161

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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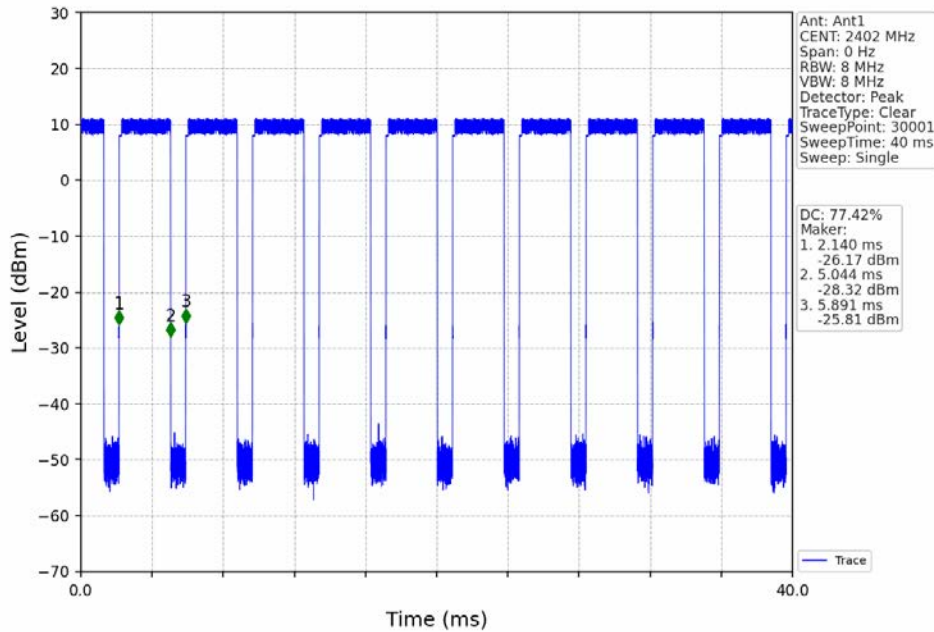
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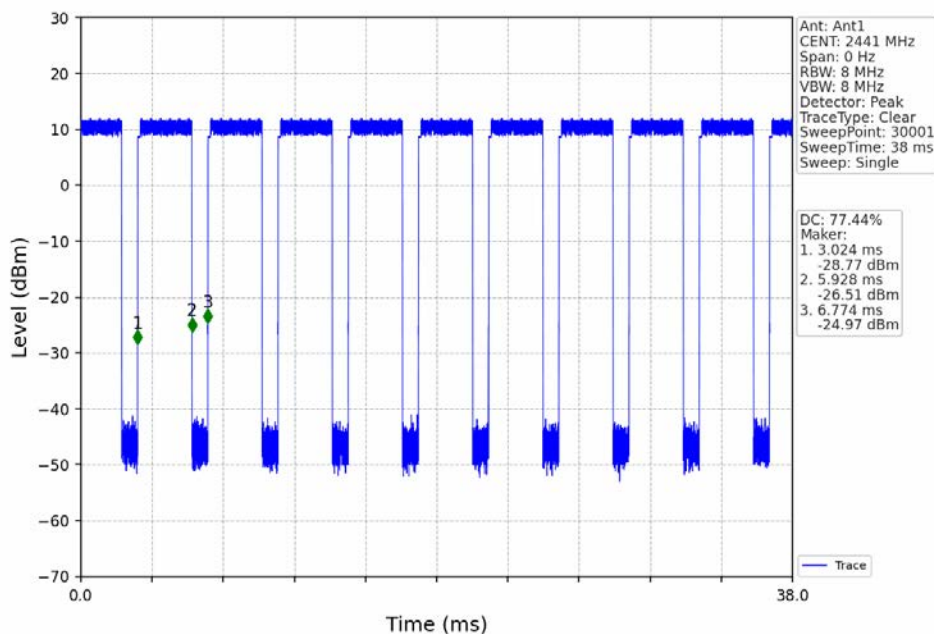
Report No.: FYCR221000041902

Page: 114 of 161

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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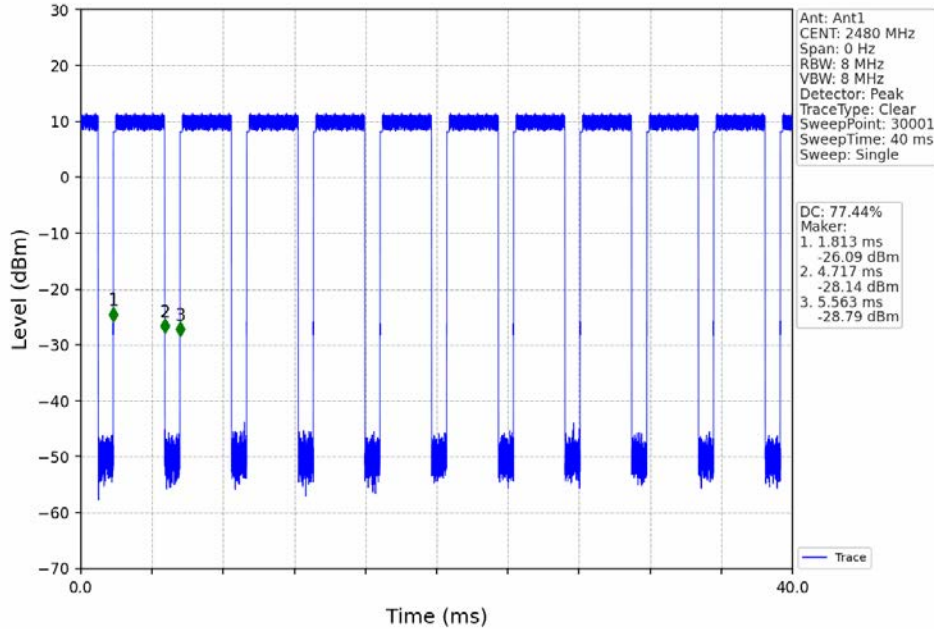
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 115 of 161

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 116 of 161

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.869	Pass
		2441	DH5	1	0.872	Pass
		2480	DH5	1	0.870	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.187	Pass
		2441	2DH5	1	1.191	Pass
		2480	2DH5	1	1.190	Pass
8DPSK	SISO	2402	3DH5	1	1.192	Pass
		2441	3DH5	1	1.193	Pass
		2480	3DH5	1	1.193	Pass



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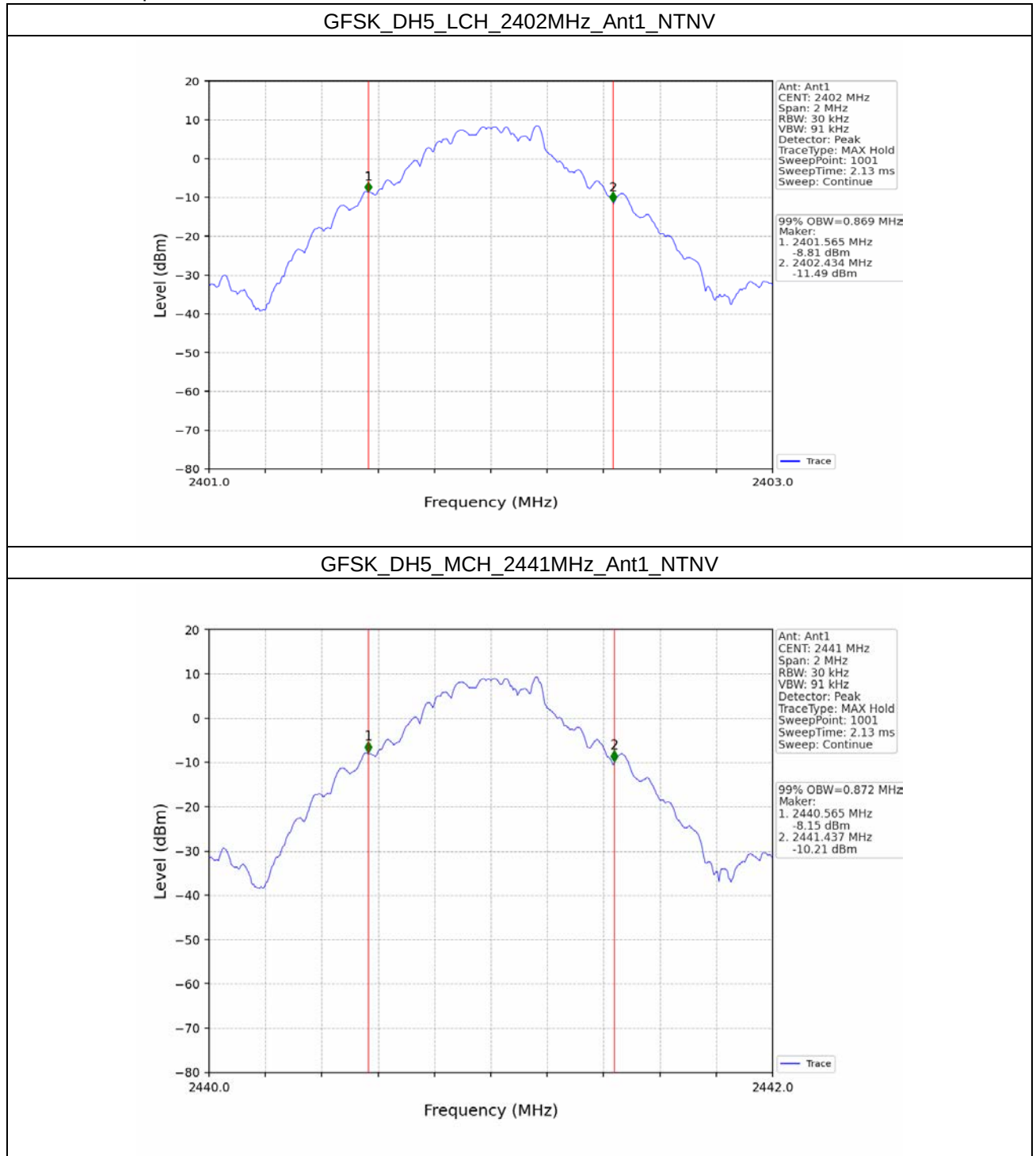
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Page: 117 of 161

2.1.2 Test Graph



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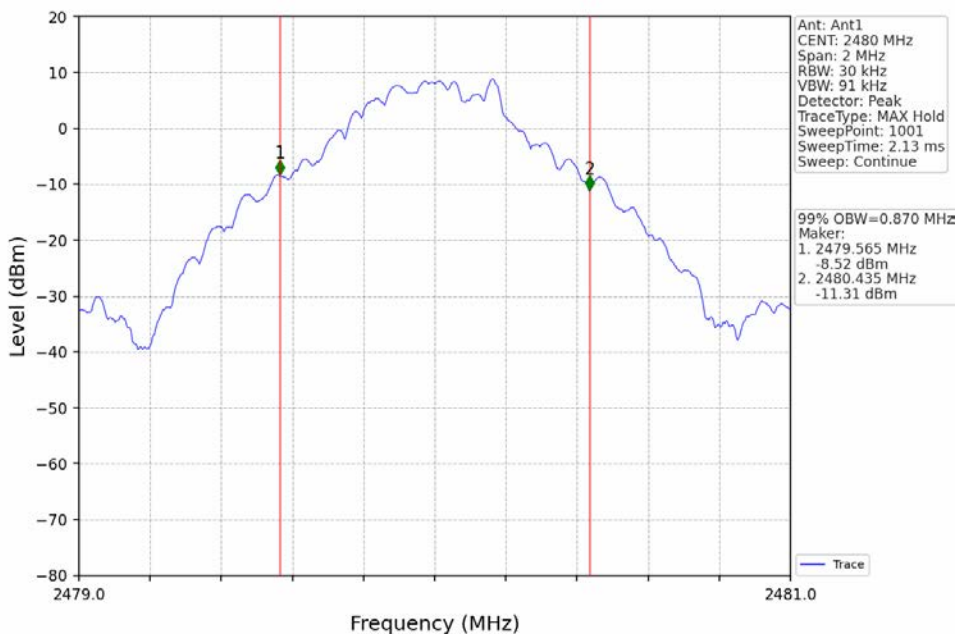
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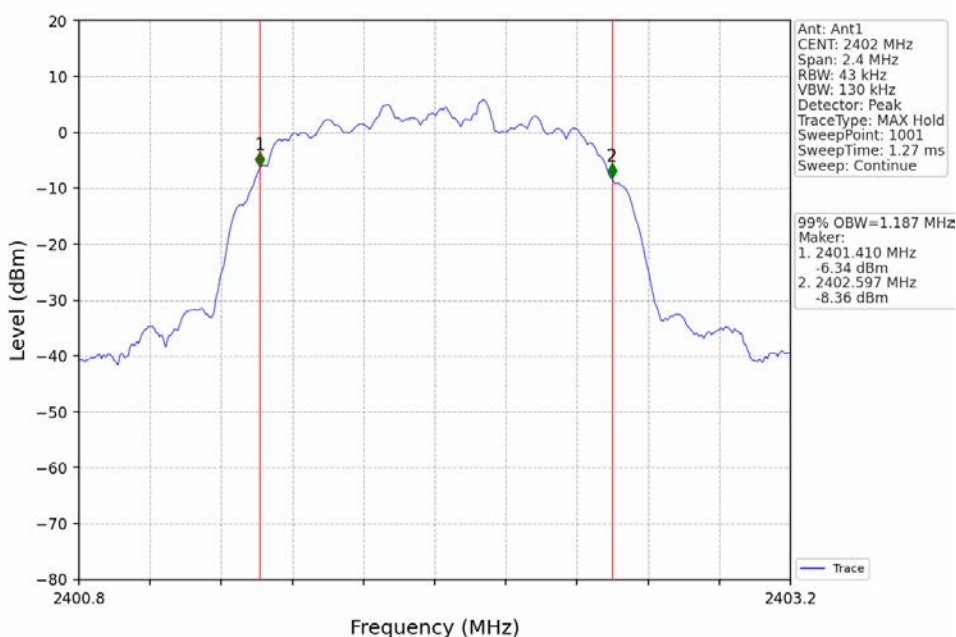
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Page: 118 of 161

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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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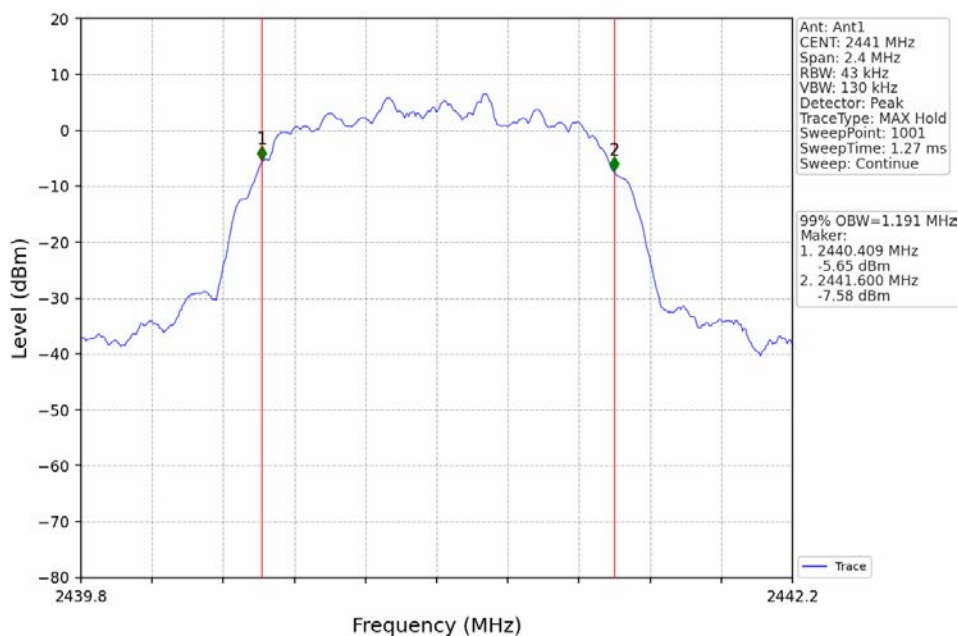
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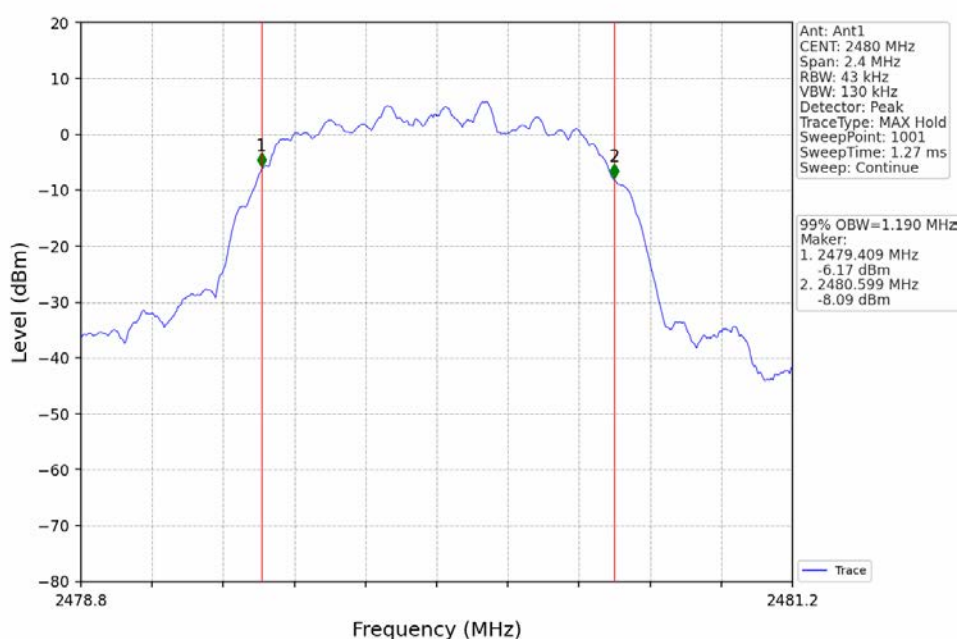
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Page: 119 of 161

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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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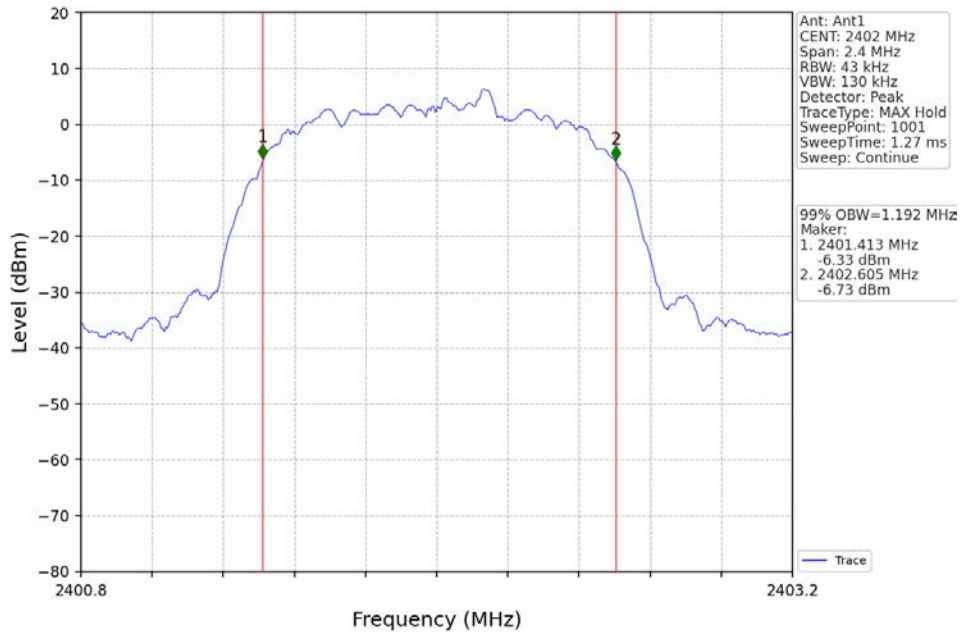
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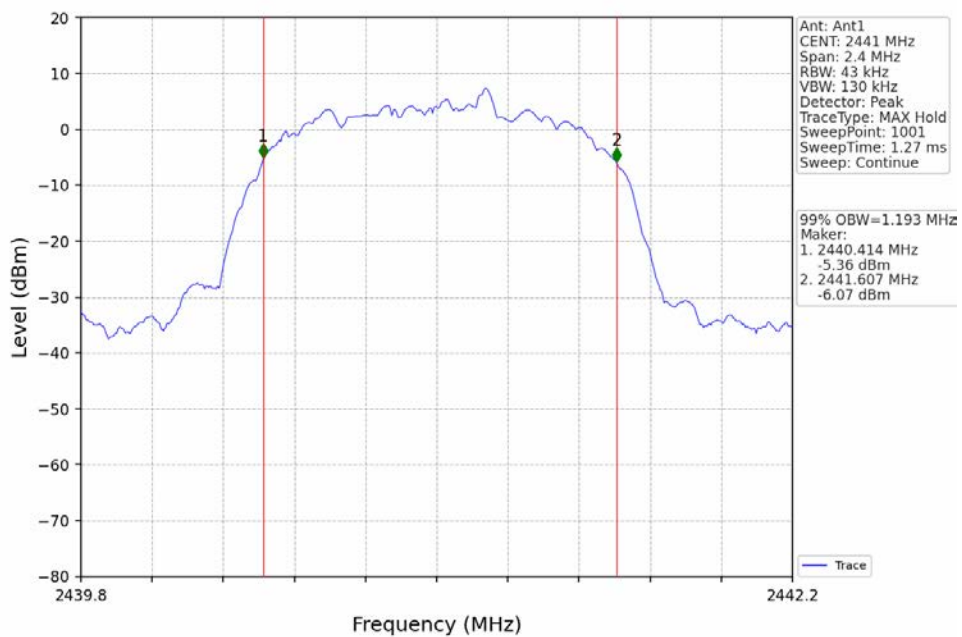
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Page: 120 of 161

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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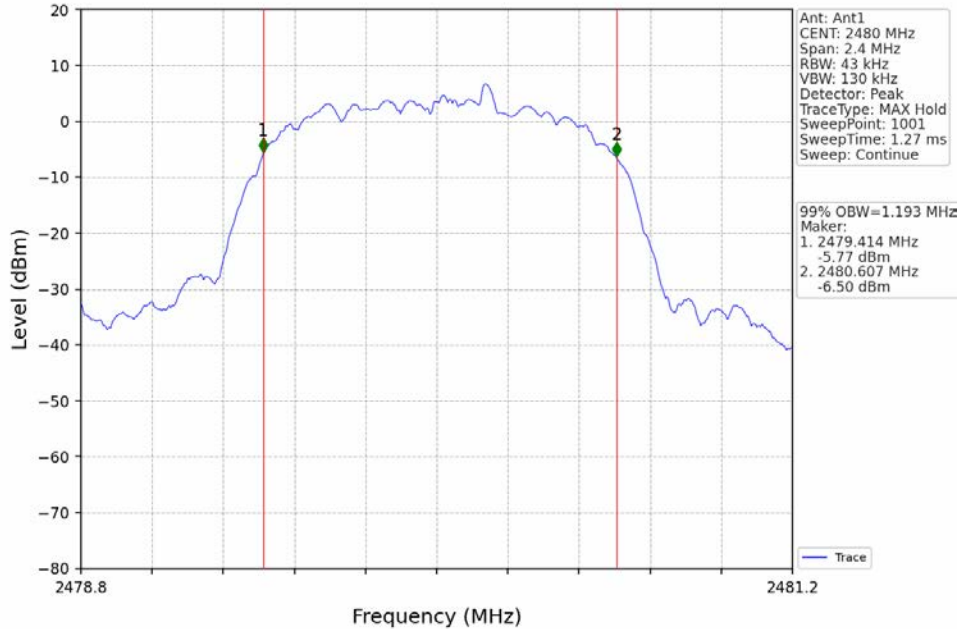
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Report No.: FYCR221000041902

Page: 121 of 161

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 122 of 161

2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.961	Pass
		2441	DH5	1	0.961	Pass
		2480	DH5	1	0.960	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.347	Pass
		2441	2DH5	1	1.351	Pass
		2480	2DH5	1	1.346	Pass
8DPSK	SISO	2402	3DH5	1	1.321	Pass
		2441	3DH5	1	1.322	Pass
		2480	3DH5	1	1.322	Pass



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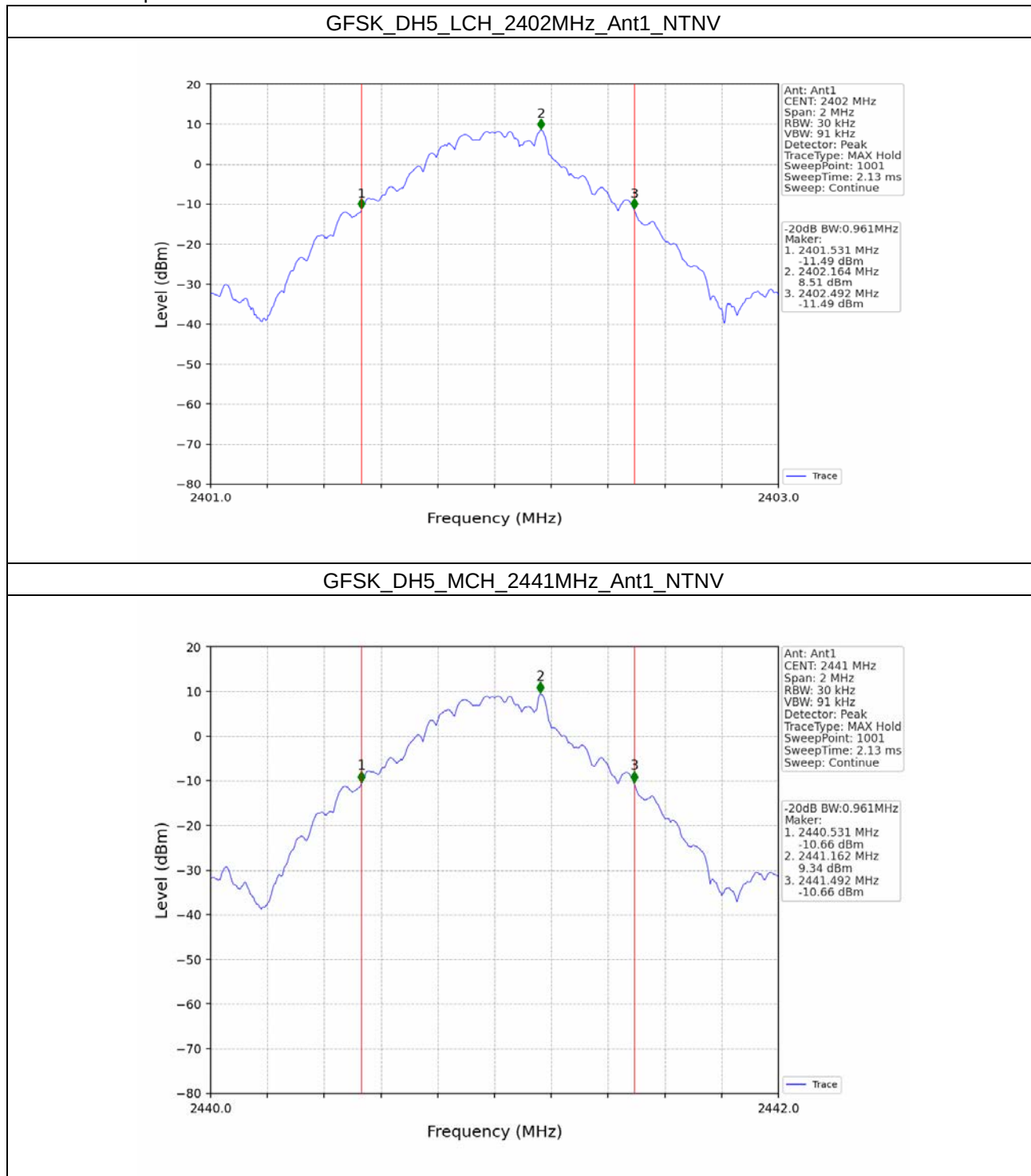
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Report No.: FYCR221000041902

Page: 123 of 161

2.2.2 Test Graph



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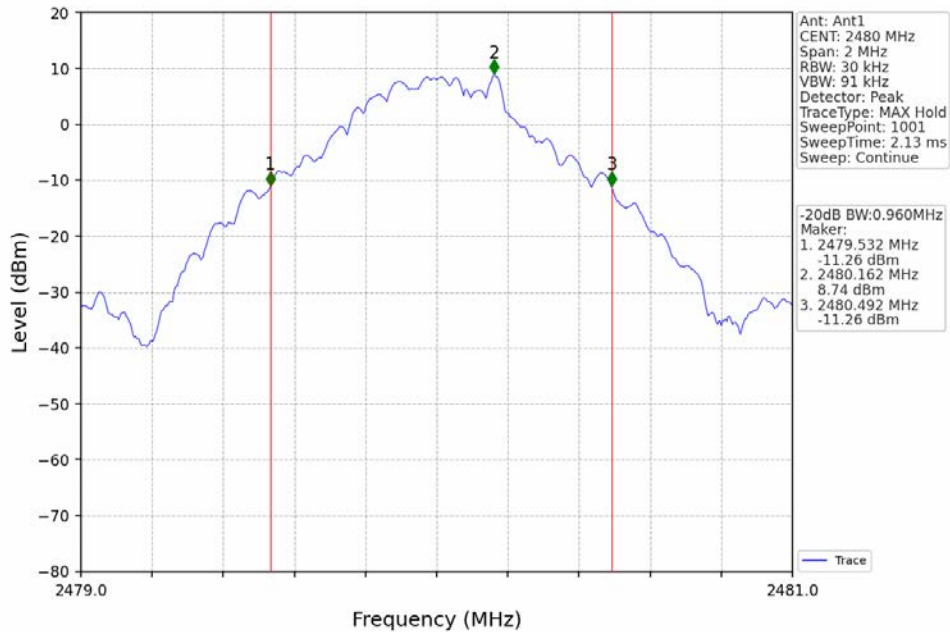
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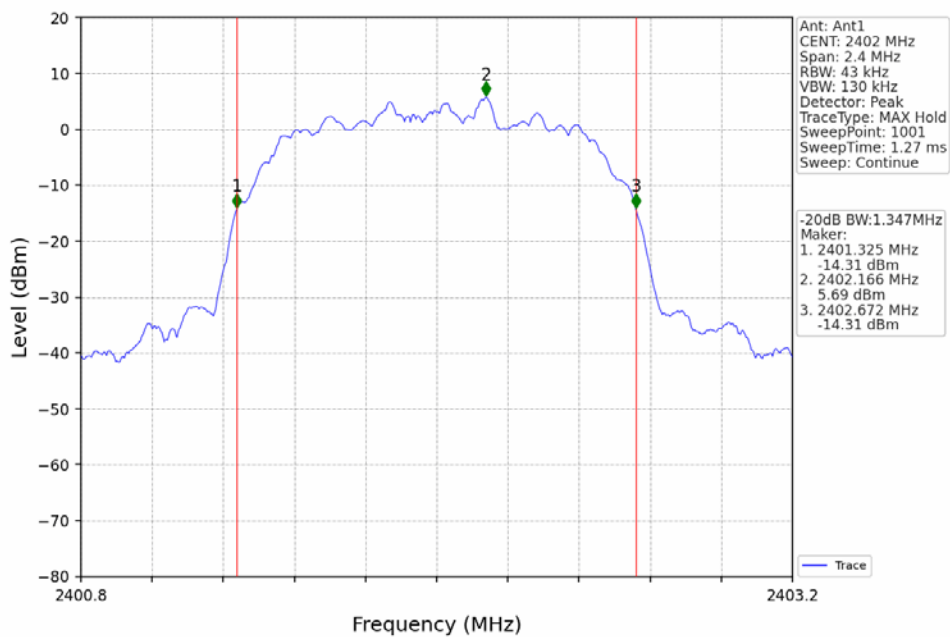
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Page: 124 of 161

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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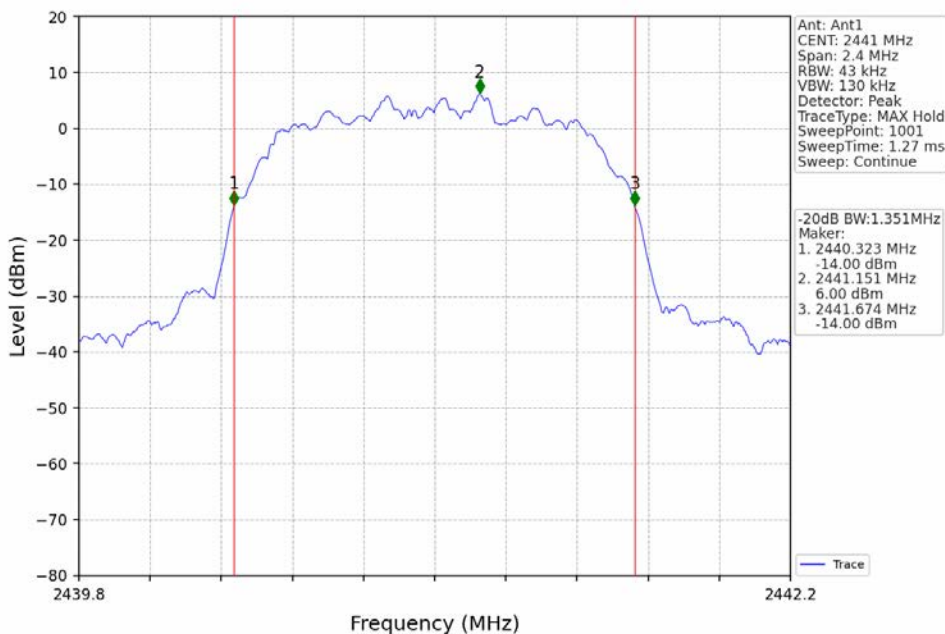
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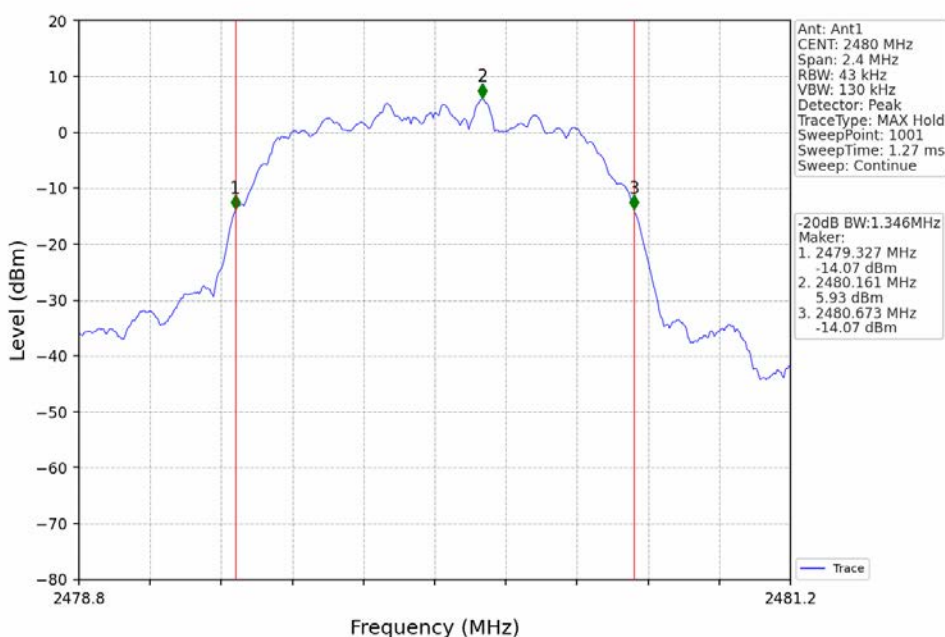
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Page: 125 of 161

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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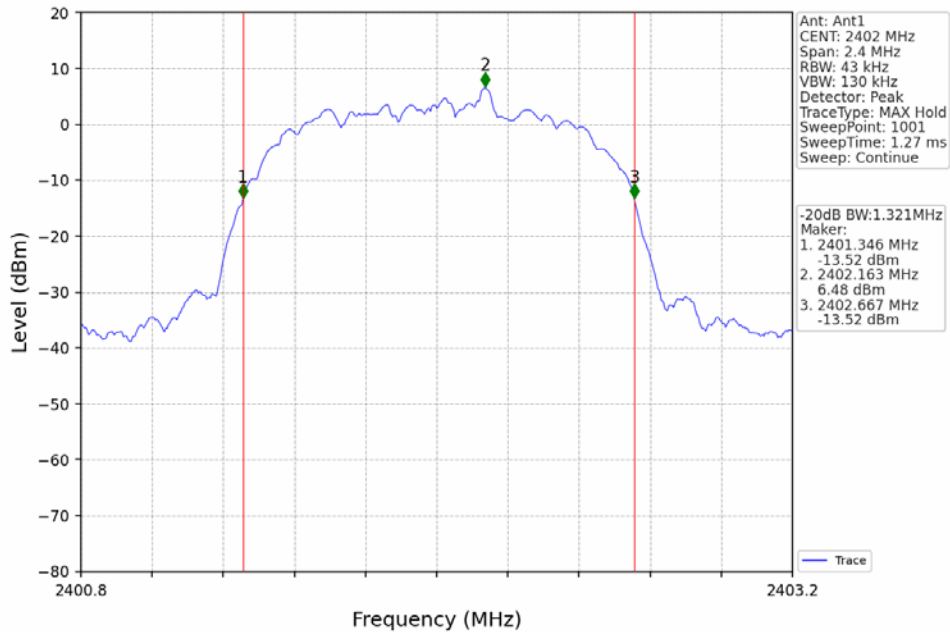
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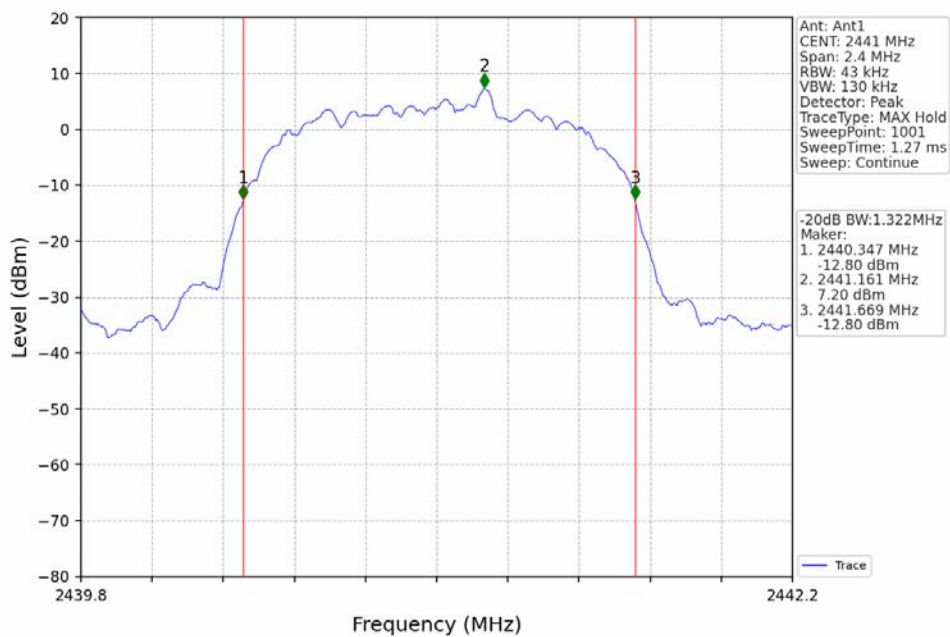
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Page: 126 of 161

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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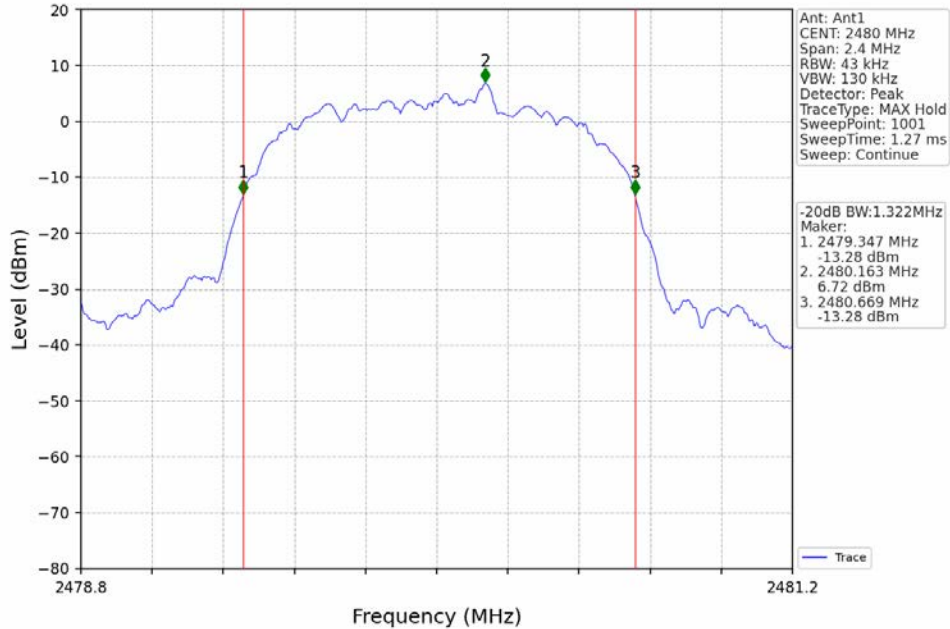
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Page: 127 of 161

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Page: 128 of 161

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	10.76	<=30	Pass
		2441	DH5	11.55	<=30	Pass
		2480	DH5	10.99	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.43	<=20.97	Pass
		2441	2DH5	11.23	<=20.97	Pass
		2480	2DH5	10.67	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.99	<=20.97	Pass
		2441	3DH5	11.80	<=20.97	Pass
		2480	3DH5	11.31	<=20.97	Pass

4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.010	0.961	>=0.961	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.010	1.351	>=0.901	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.322	>=0.881	Pass



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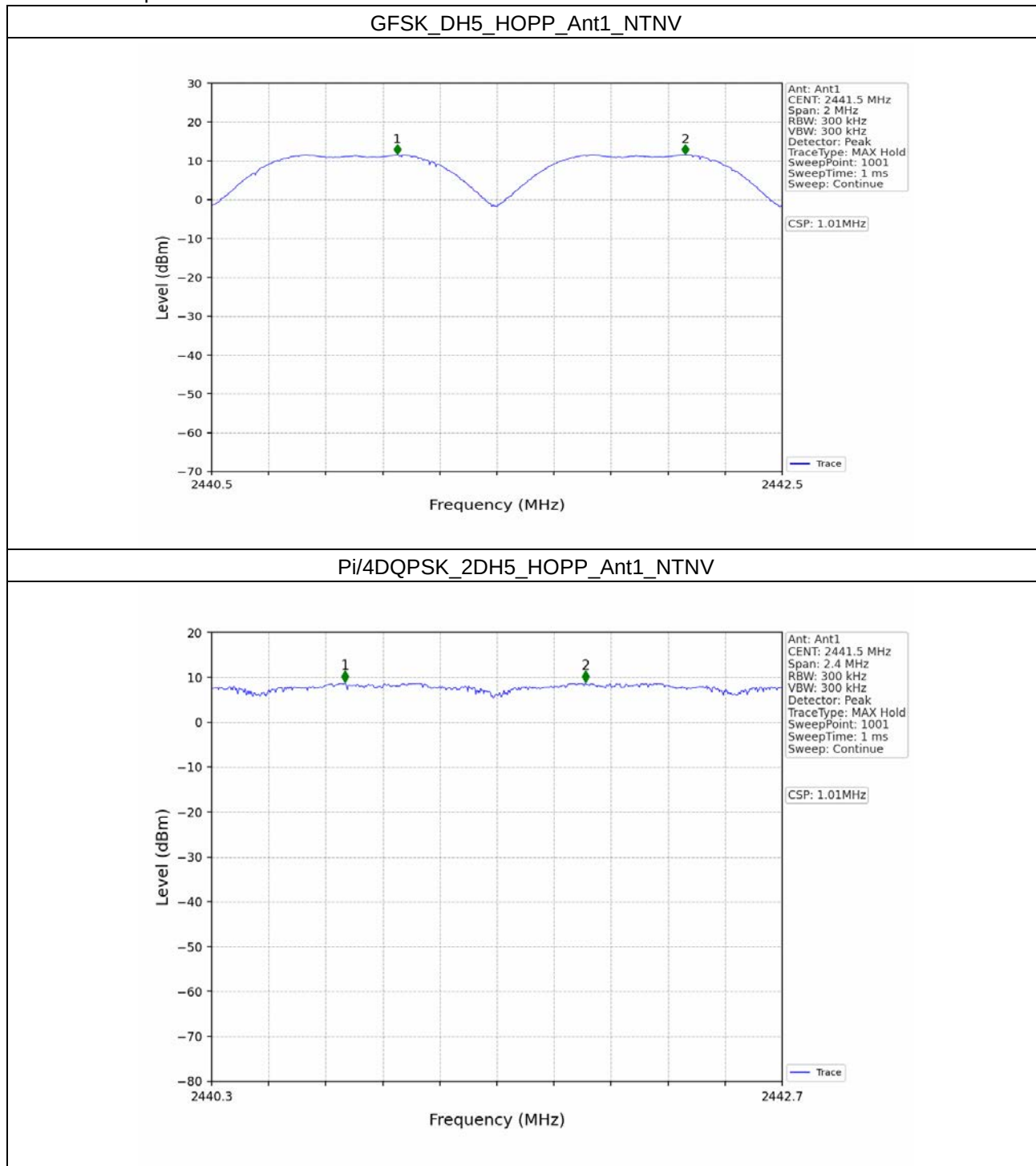
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Page: 129 of 161

4.1.2 Test Graph



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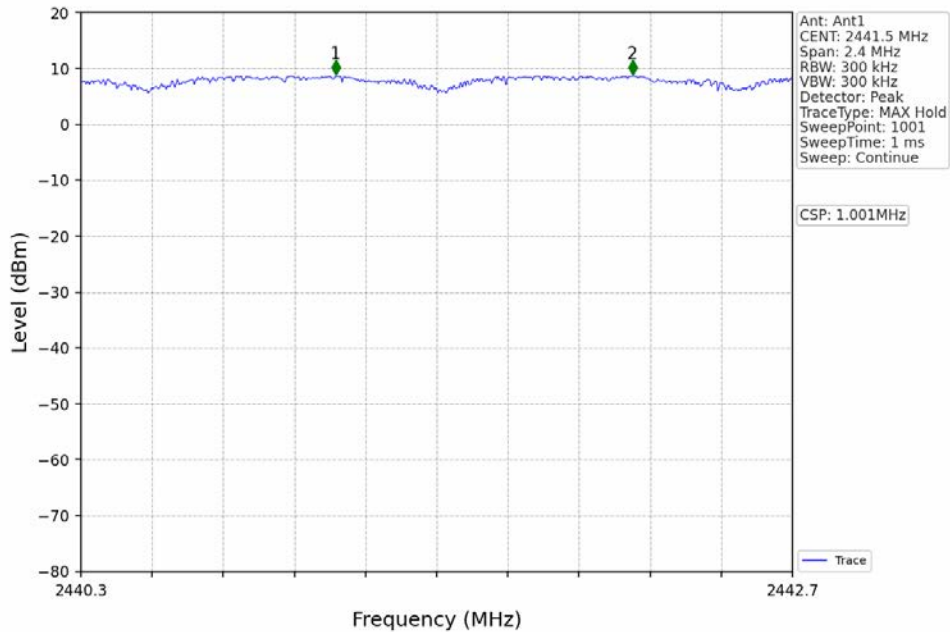
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Report No.: FYCR221000041902

Page: 130 of 161

8DPSK_3DH5_HOPP_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 131 of 161

5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

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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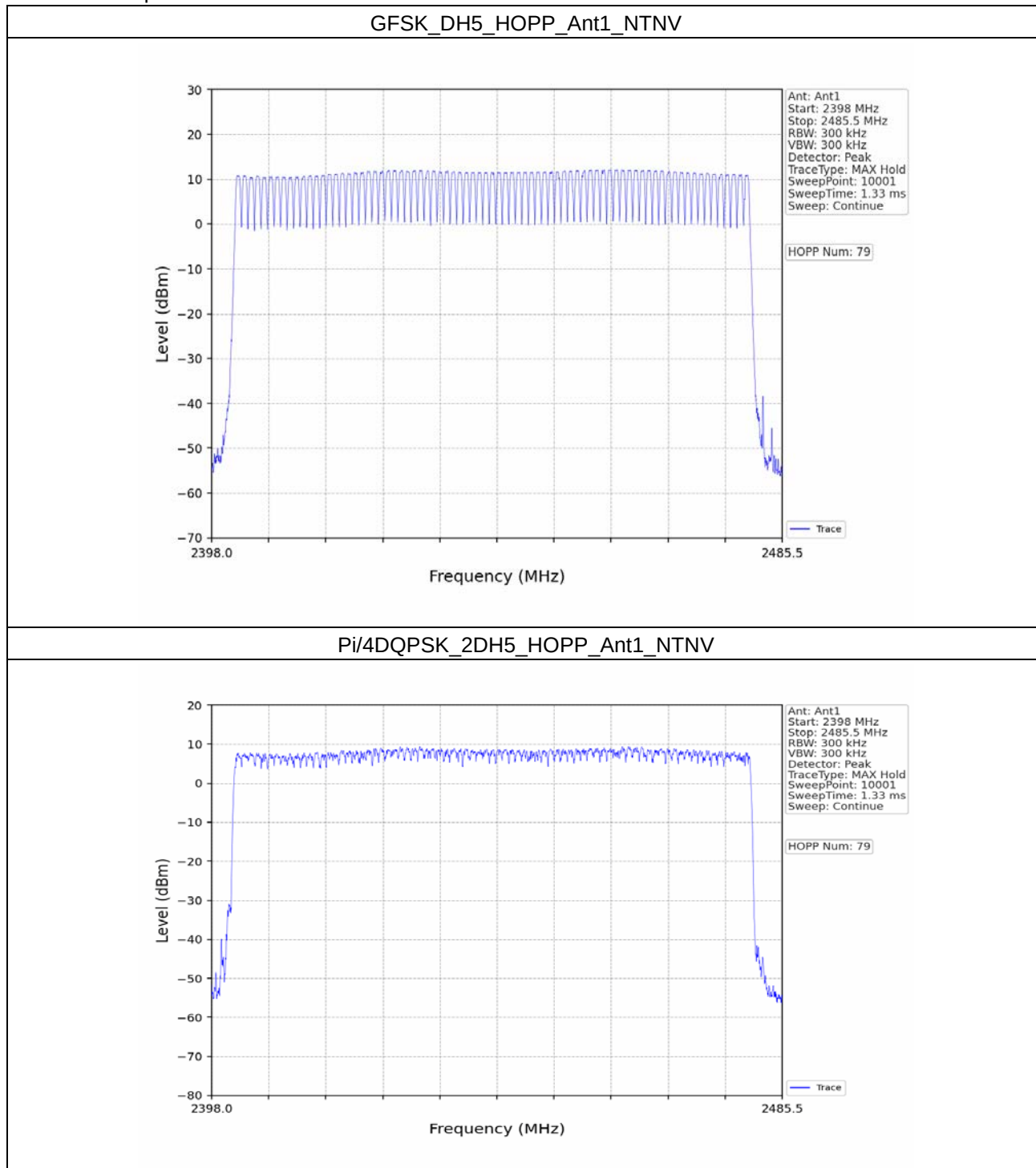
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Report No.: FYCR221000041902

Page: 132 of 161

5.1.2 Test Graph



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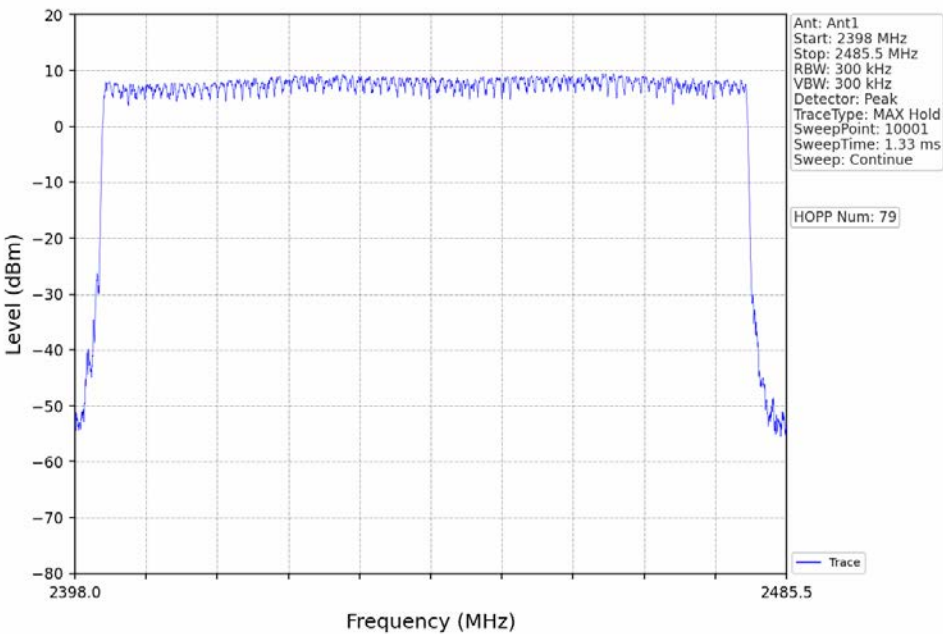
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 133 of 161

8DPSK_3DH5_HOPP_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 134 of 161

6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

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	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.656	31.600	164	271.584	<=400	Pass
			DH5	2.906	31.600	101	293.506	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.644	31.600	164	269.616	<=400	Pass
			2DH5	2.906	31.600	103	299.318	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	319	125.048	<=400	Pass
			3DH3	1.642	31.600	153	251.226	<=400	Pass
			3DH5	2.906	31.600	116	337.096	<=400	Pass



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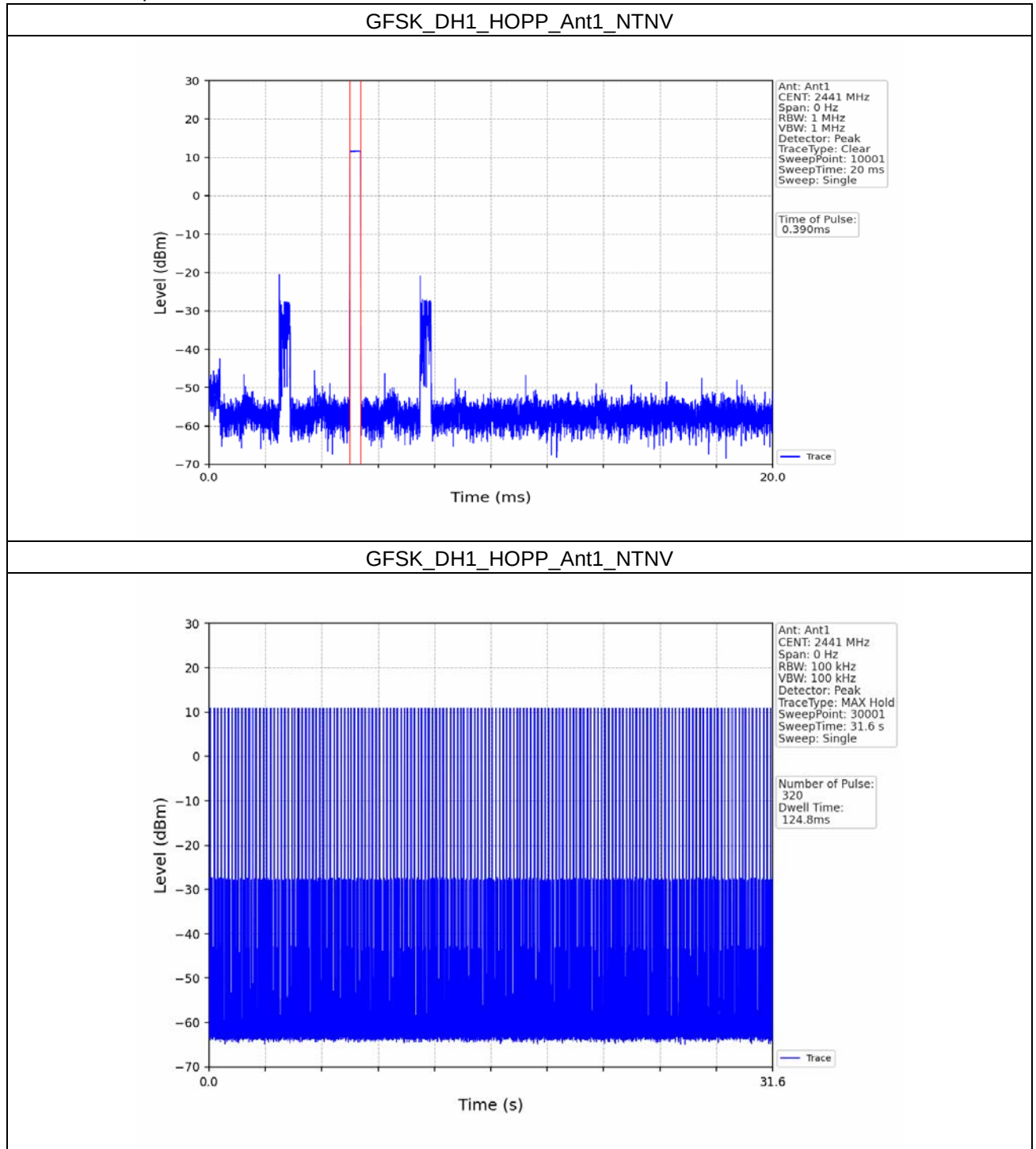
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 135 of 161

6.1.2 Test Graph



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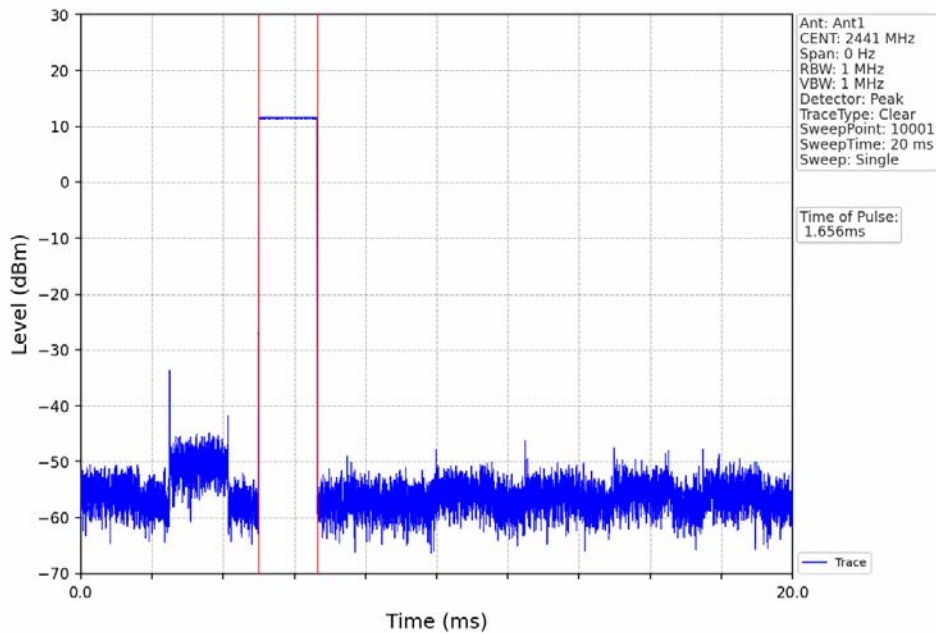
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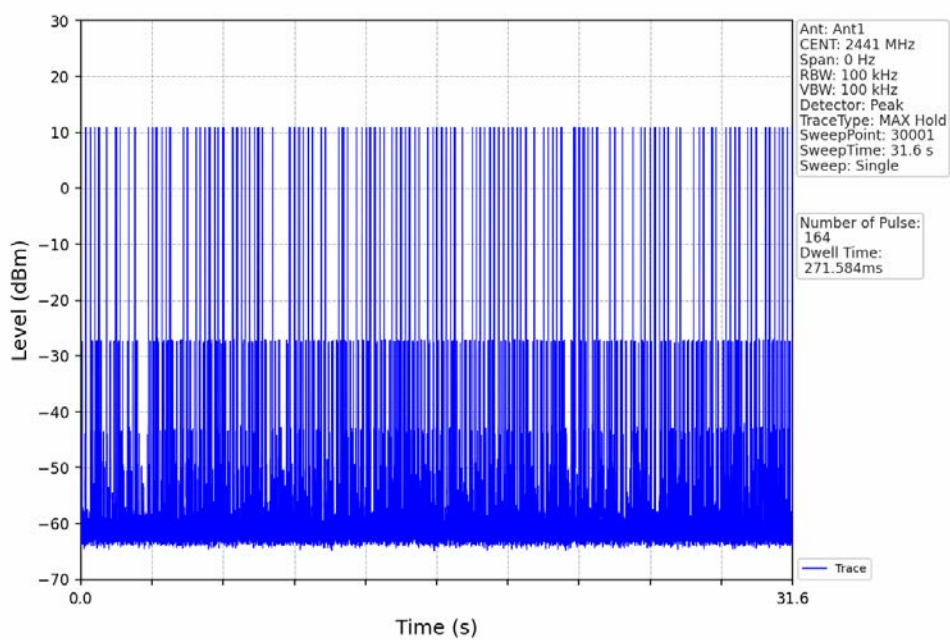
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Page: 136 of 161

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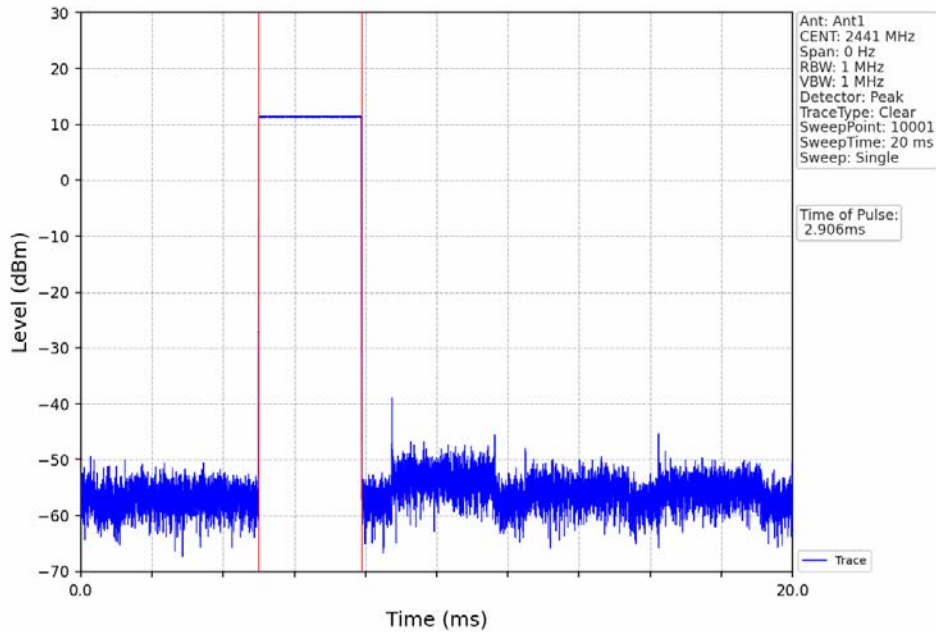
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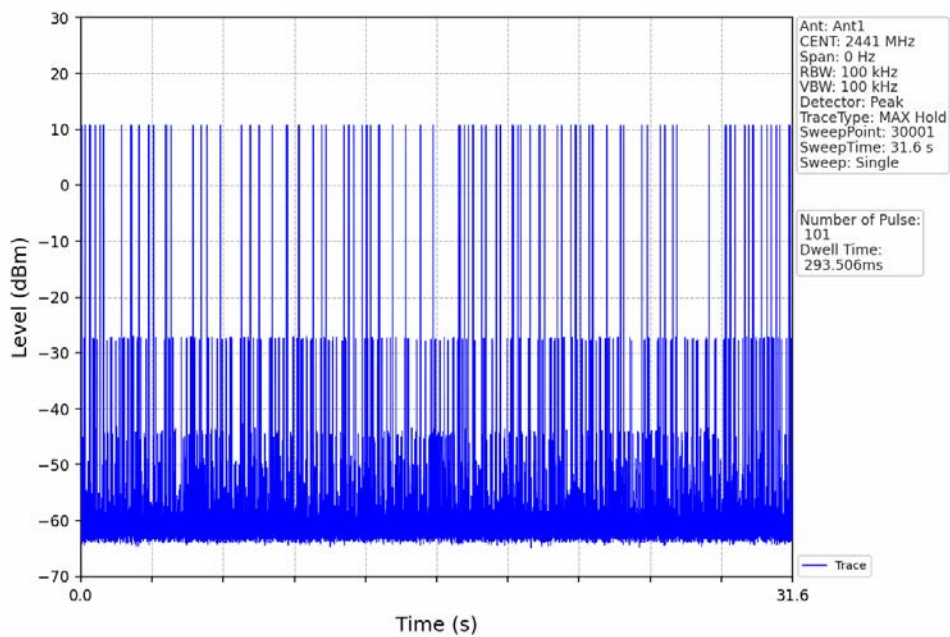
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Page: 137 of 161

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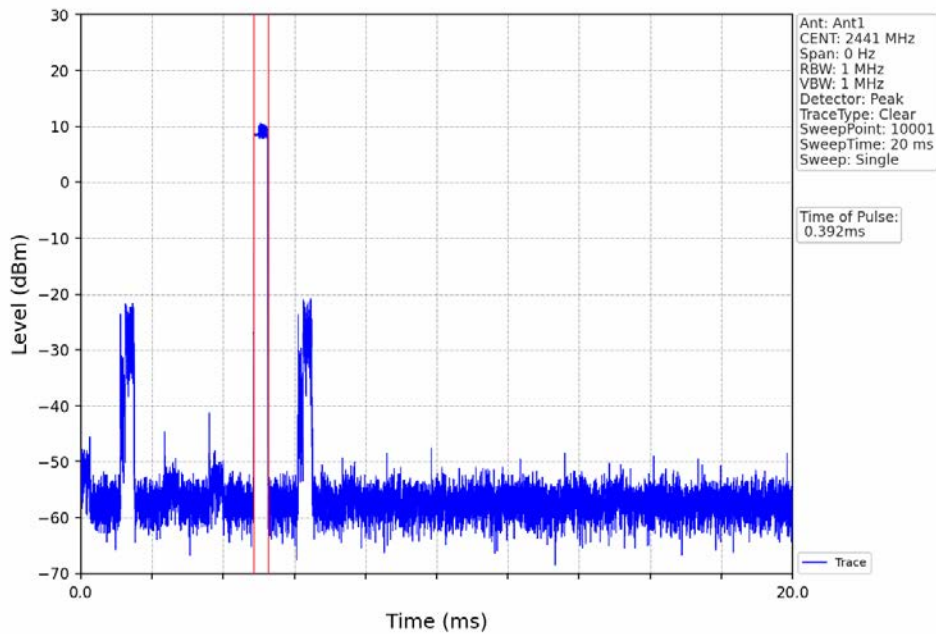
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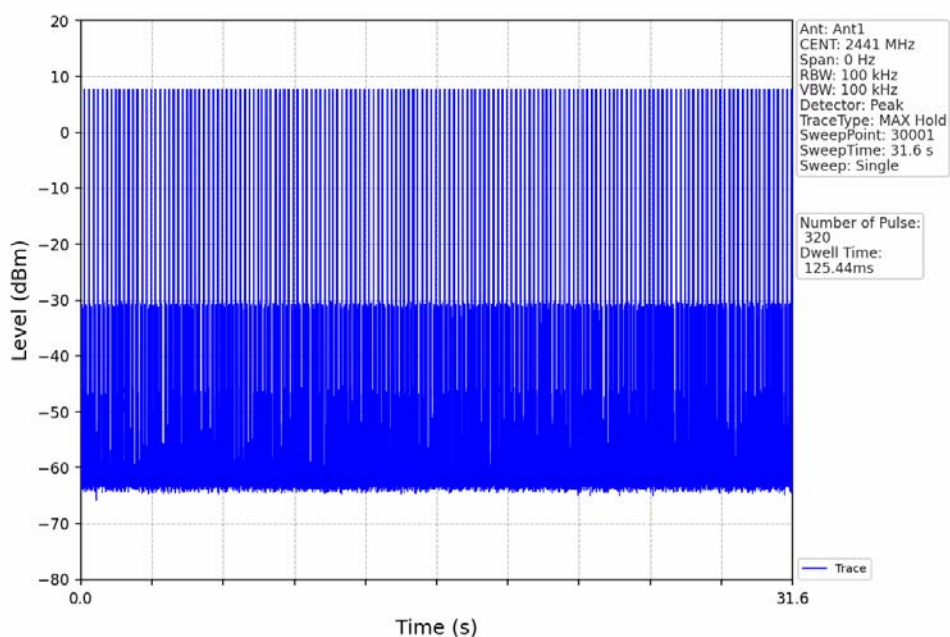
Report No.: FYCR221000041902

Page: 138 of 161

Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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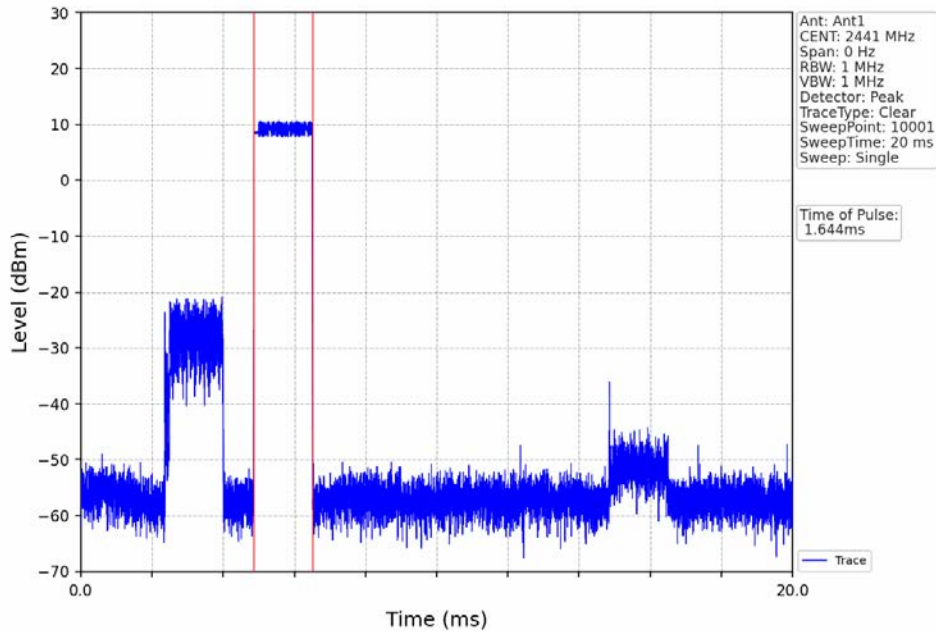
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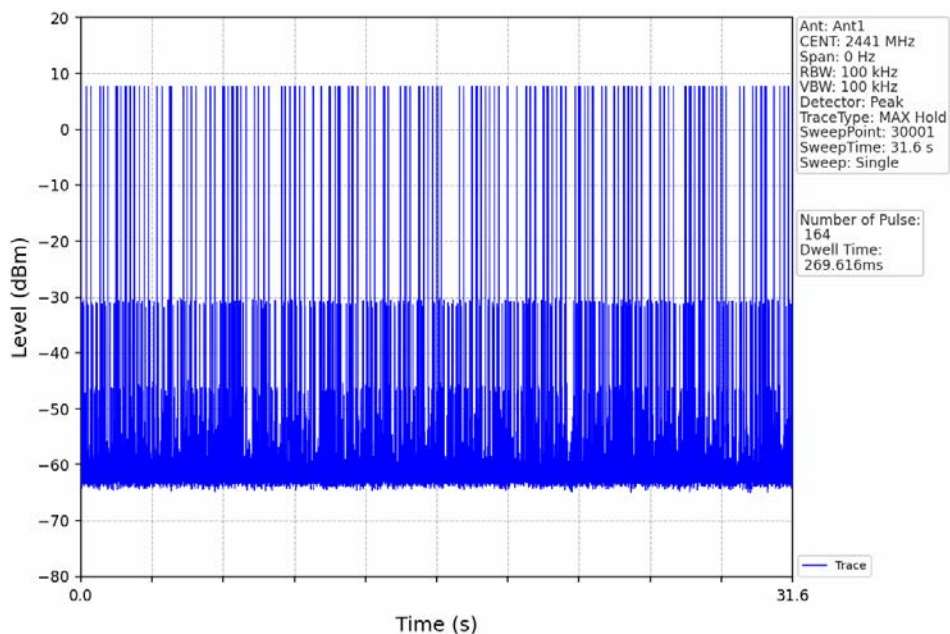
Report No.: FYCR221000041902

Page: 139 of 161

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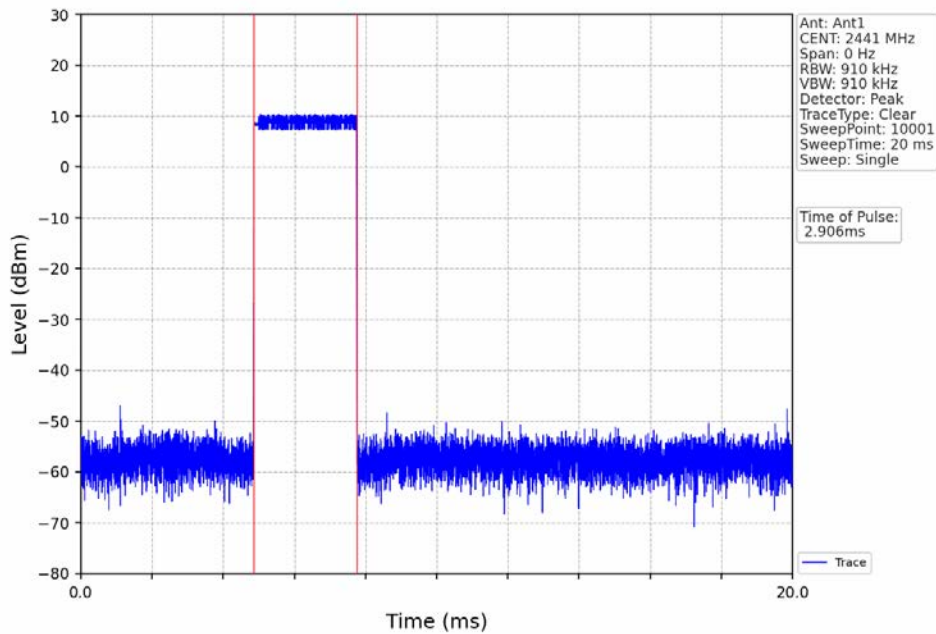
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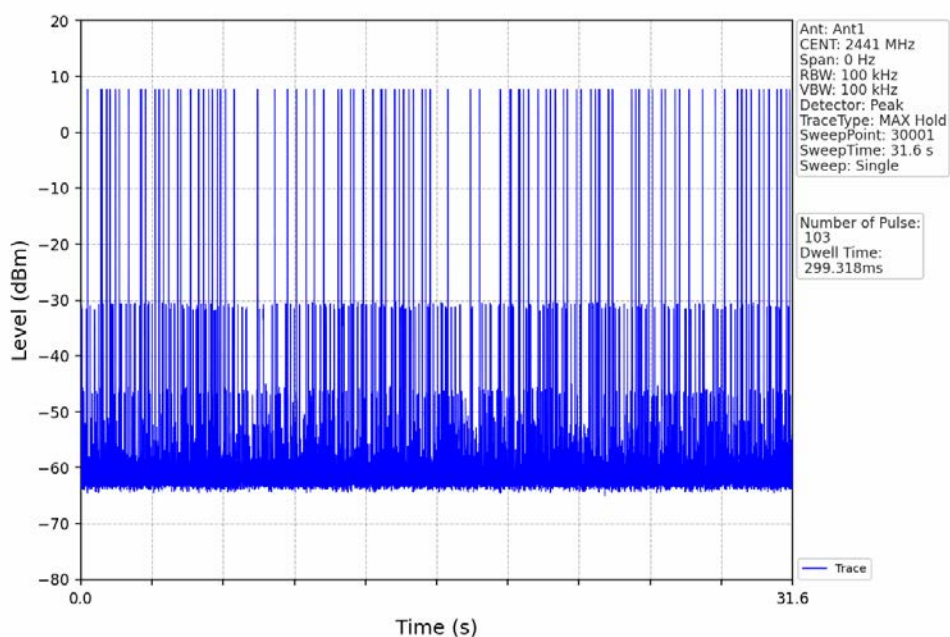
Report No.: FYCR221000041902

Page: 140 of 161

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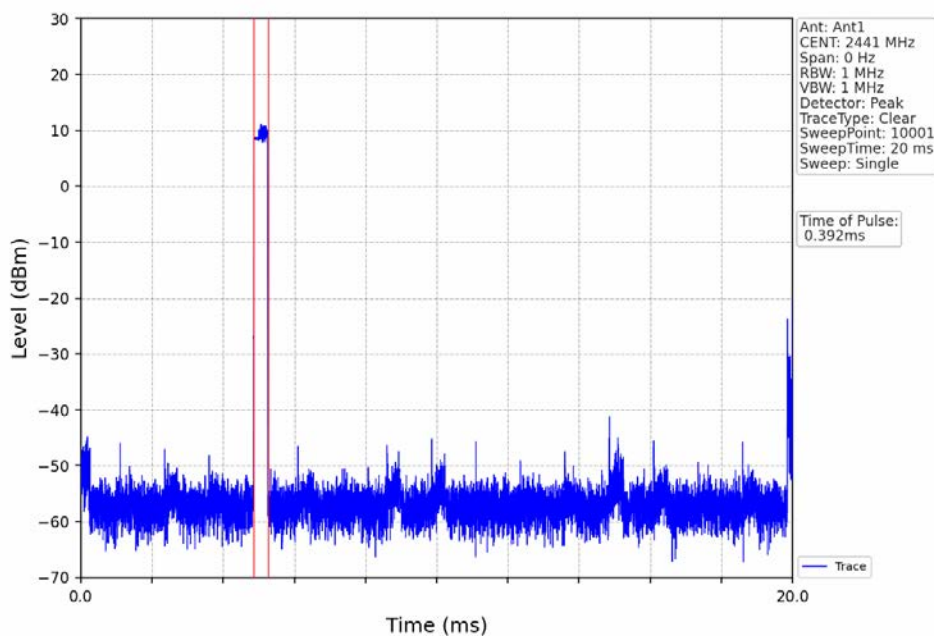
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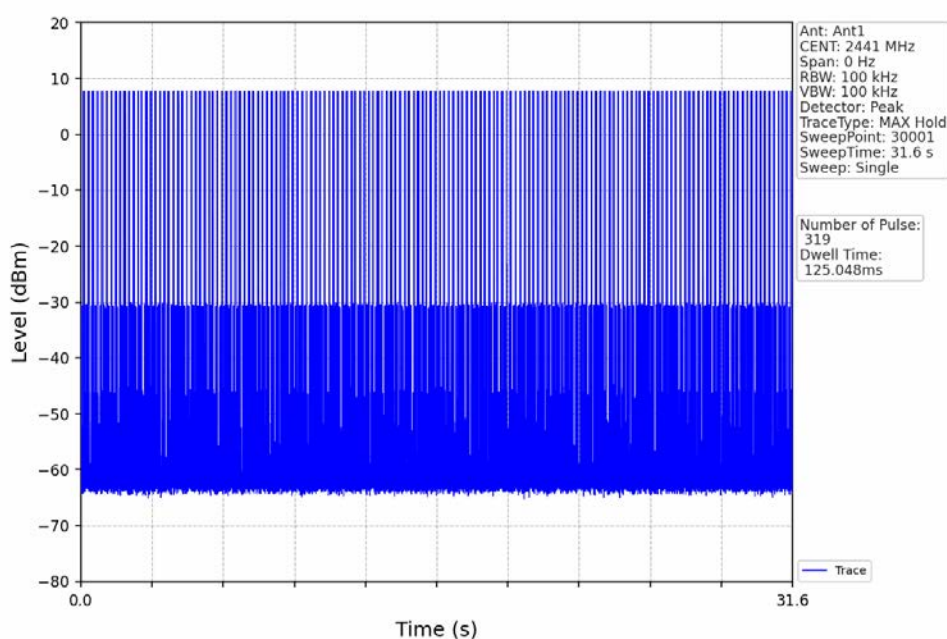
Report No.: FYCR221000041902

Page: 141 of 161

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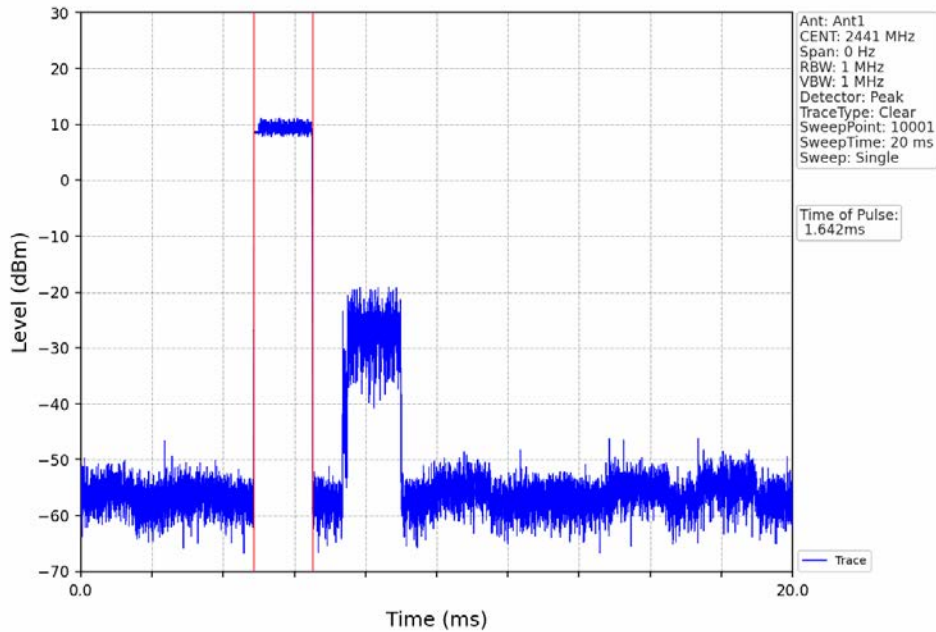
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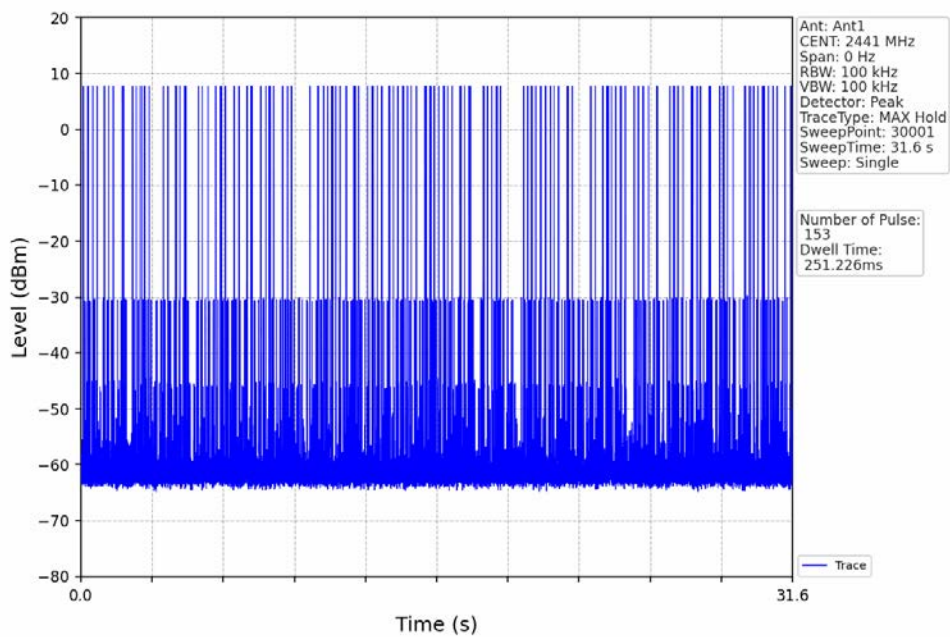
Report No.: FYCR221000041902

Page: 142 of 161

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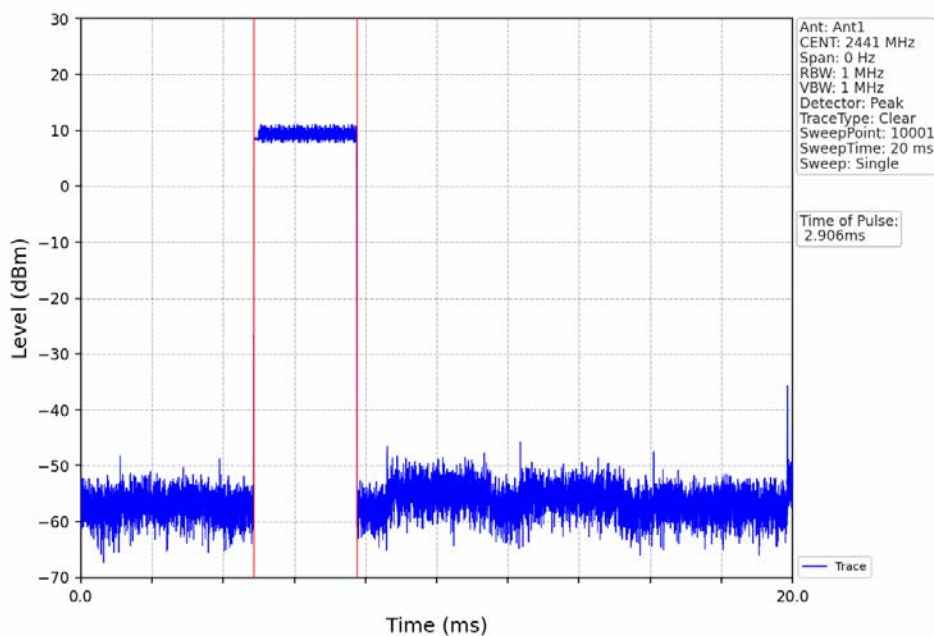
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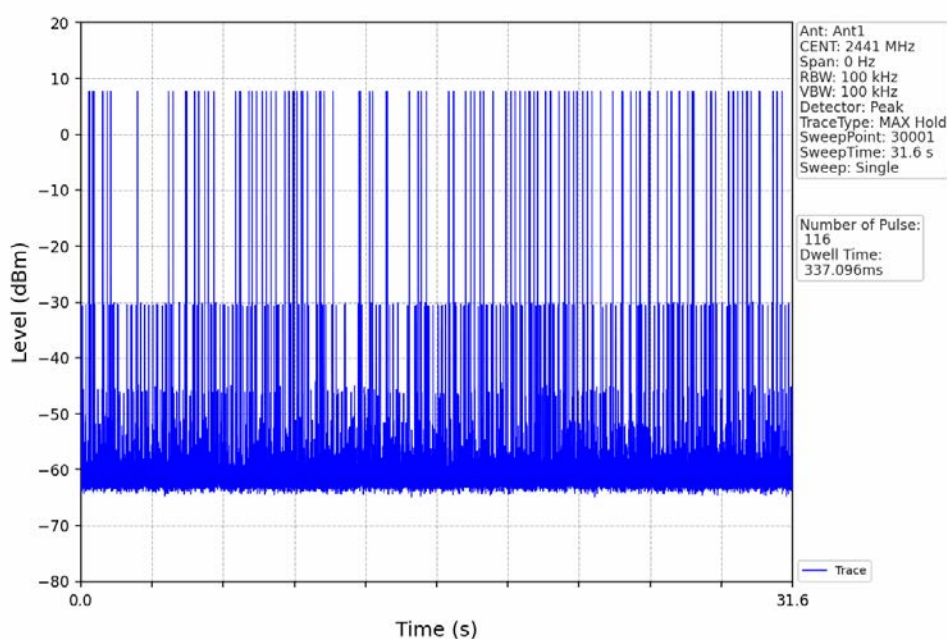
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Page: 143 of 161

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 144 of 161

7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	10.60
		2441	DH5	1	11.49
		2480	DH5	1	10.91
Pi/4DQPSK	SISO	2402	2DH5	1	7.71
		2441	2DH5	1	8.30
		2480	2DH5	1	7.91
8DPSK	SISO	2402	3DH5	1	7.76
		2441	3DH5	1	8.62
		2480	3DH5	1	8.11



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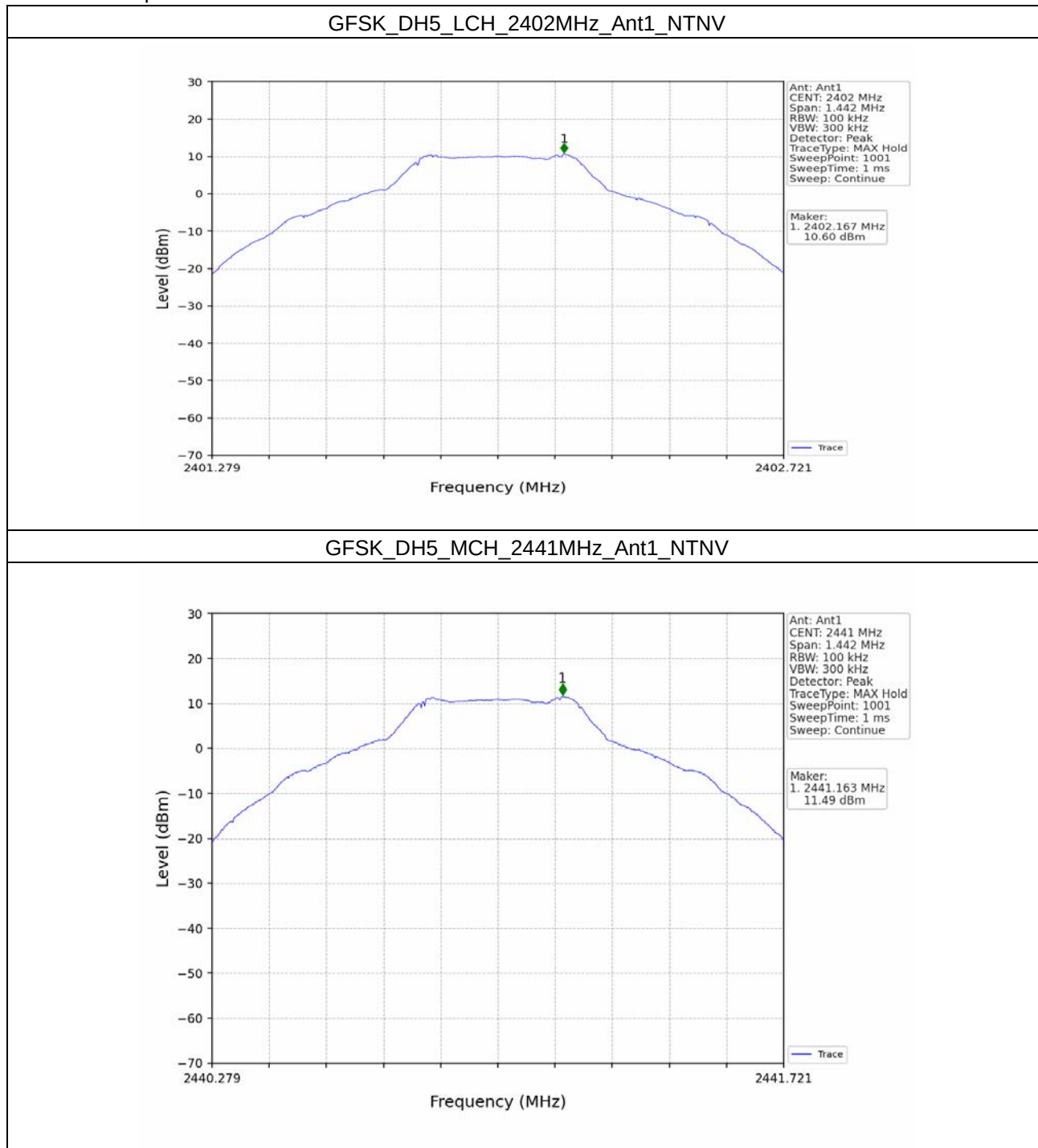
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 145 of 161

7.1.2 Test Graph



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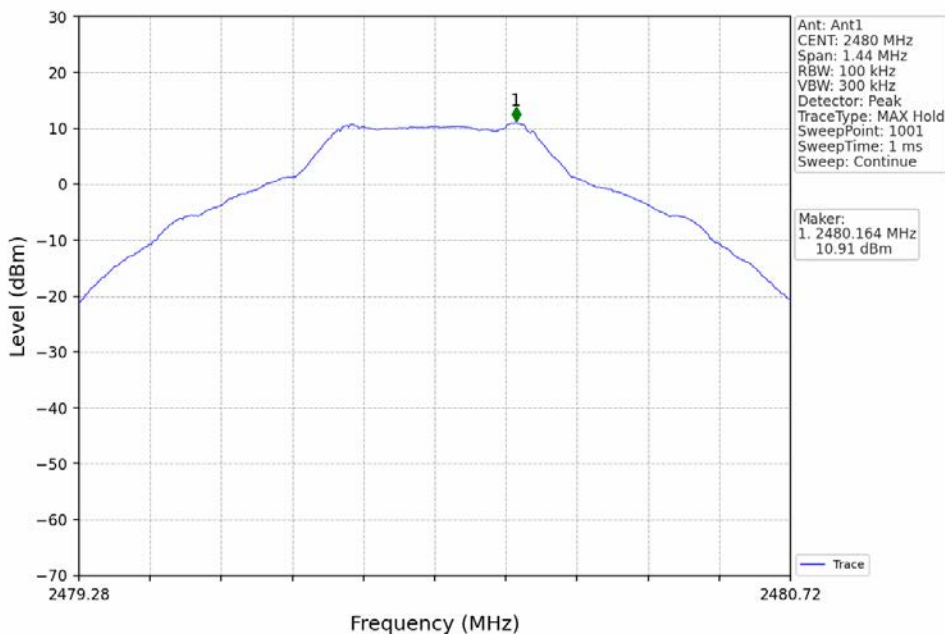
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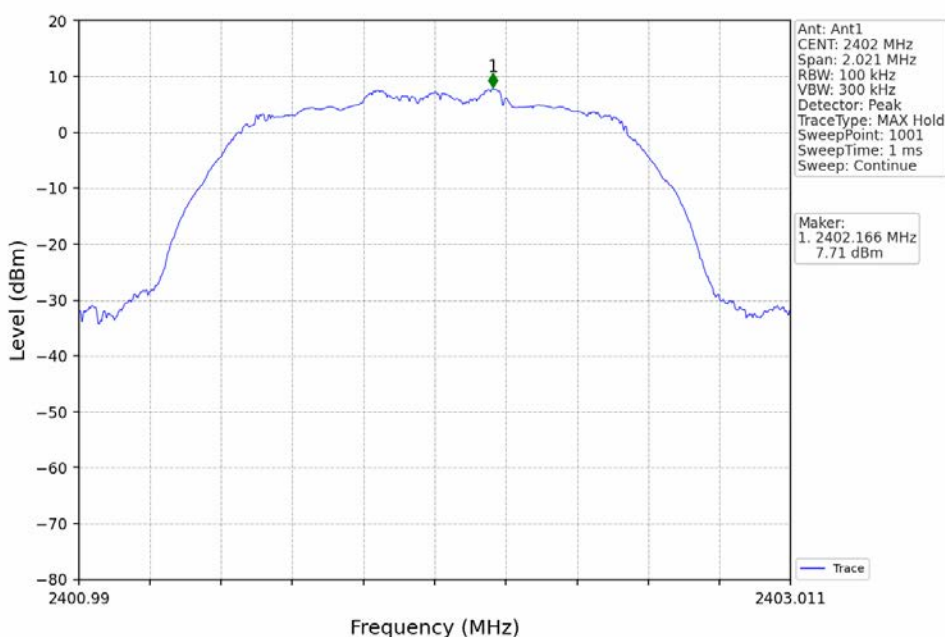
Report No.: FYCR221000041902

Page: 146 of 161

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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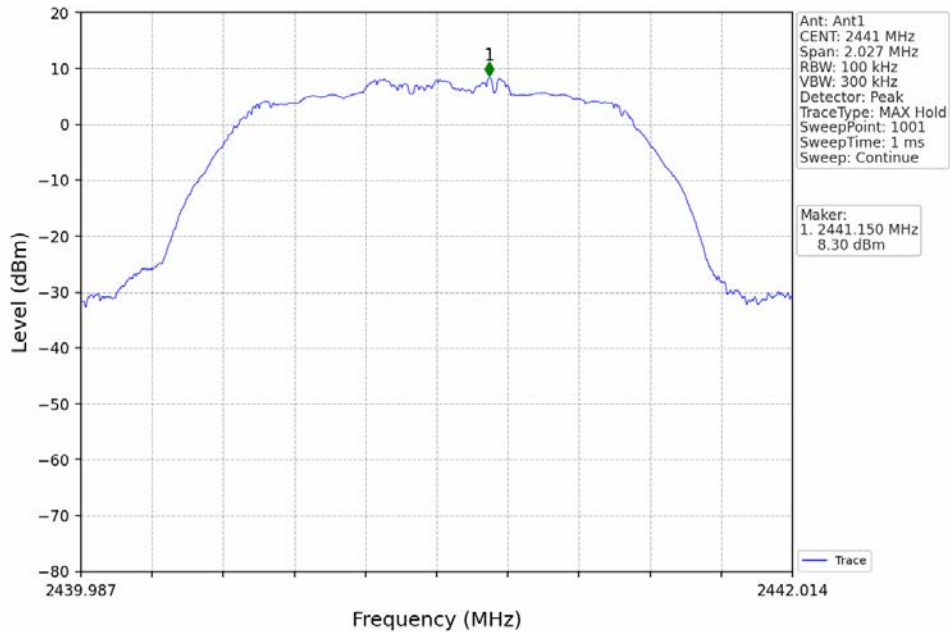
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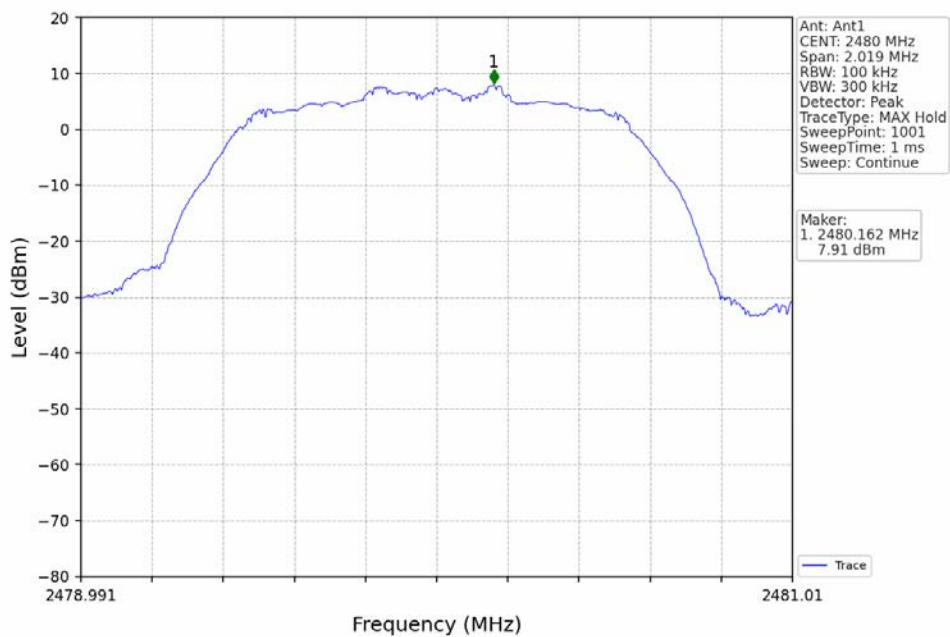
Report No.: FYCR221000041902

Page: 147 of 161

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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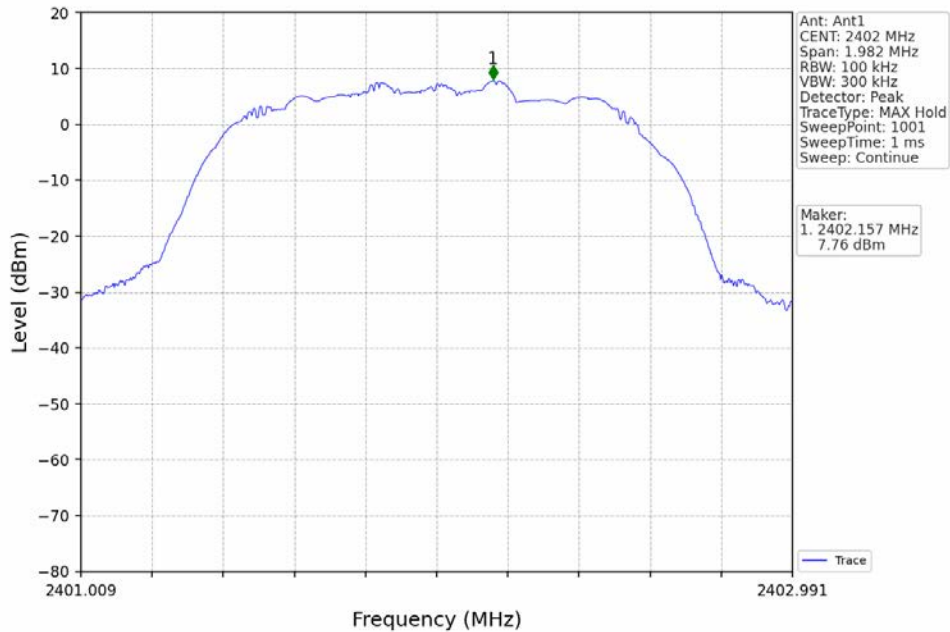
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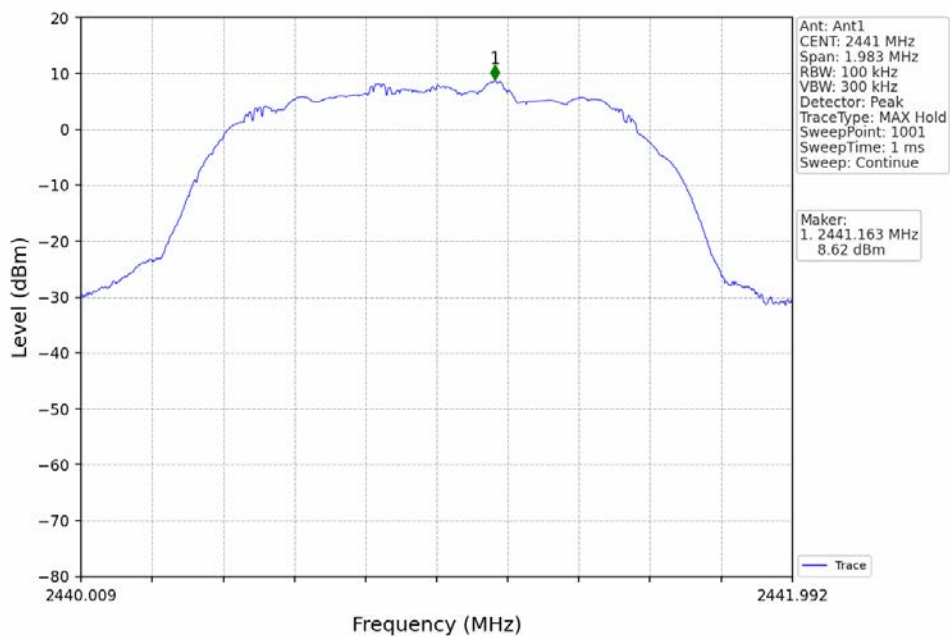
Report No.: FYCR221000041902

Page: 148 of 161

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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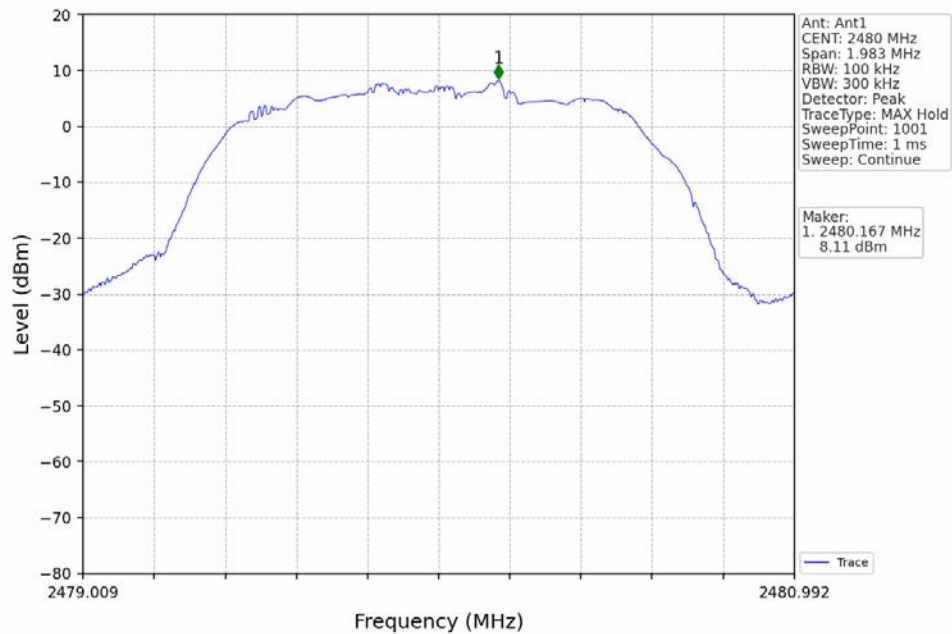
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Page: 149 of 161

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000041902

Page: 150 of 161

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	11.49	-8.51	Pass
		2441	DH5	1	11.49	-8.51	Pass
		2480	DH5	1	11.49	-8.51	Pass
		HOPP	DH5	1	11.49	-8.51	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.30	-11.70	Pass
		2441	2DH5	1	8.30	-11.70	Pass
		2480	2DH5	1	8.30	-11.70	Pass
		HOPP	2DH5	1	8.30	-11.70	Pass
8DPSK	SISO	2402	3DH5	1	8.62	-11.38	Pass
		2441	3DH5	1	8.62	-11.38	Pass
		2480	3DH5	1	8.62	-11.38	Pass
		HOPP	3DH5	1	8.62	-11.38	Pass



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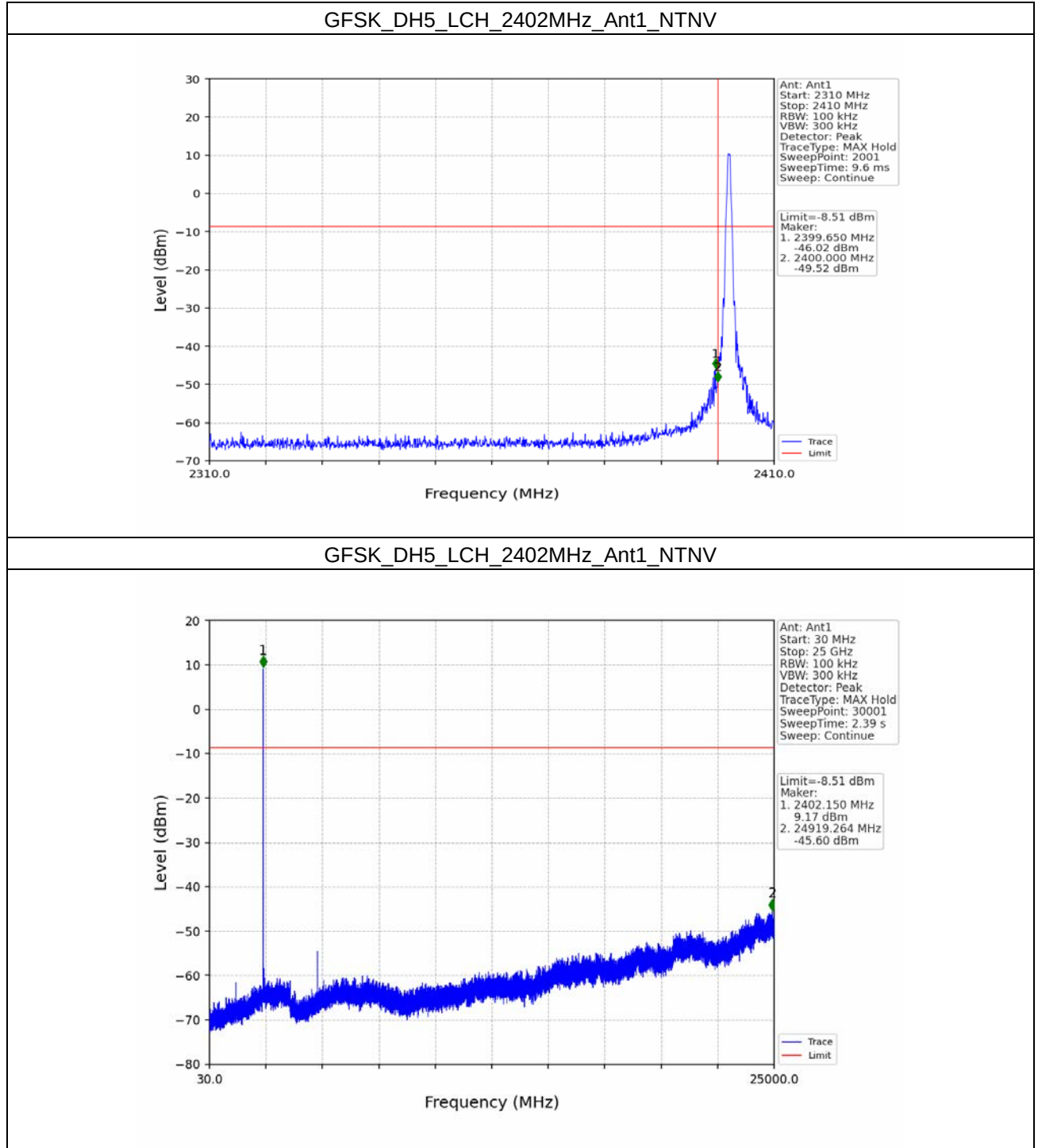
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Page: 151 of 161

7.2.2 Test Graph



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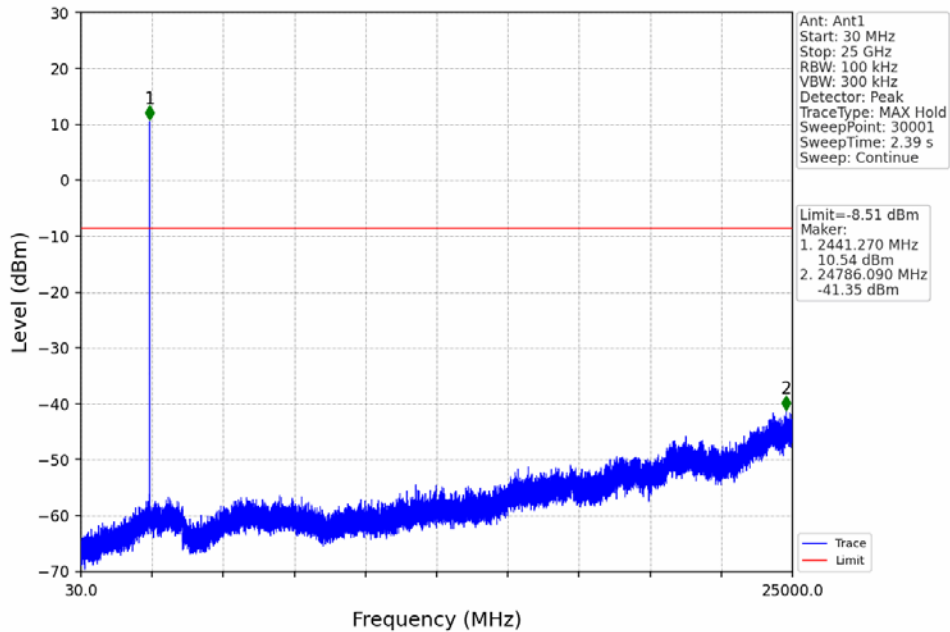
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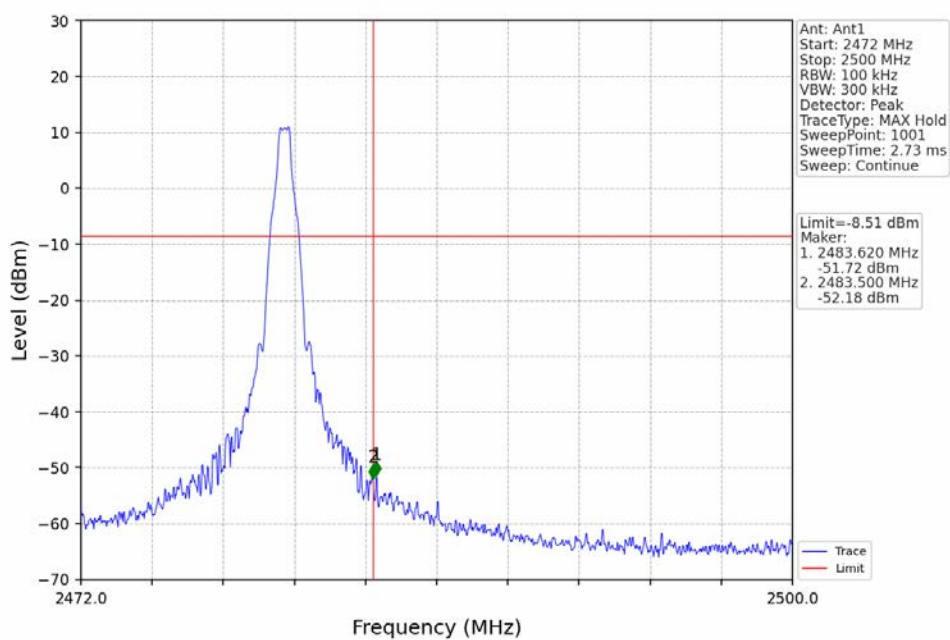
Report No.: FYCR221000041902

Page: 152 of 161

GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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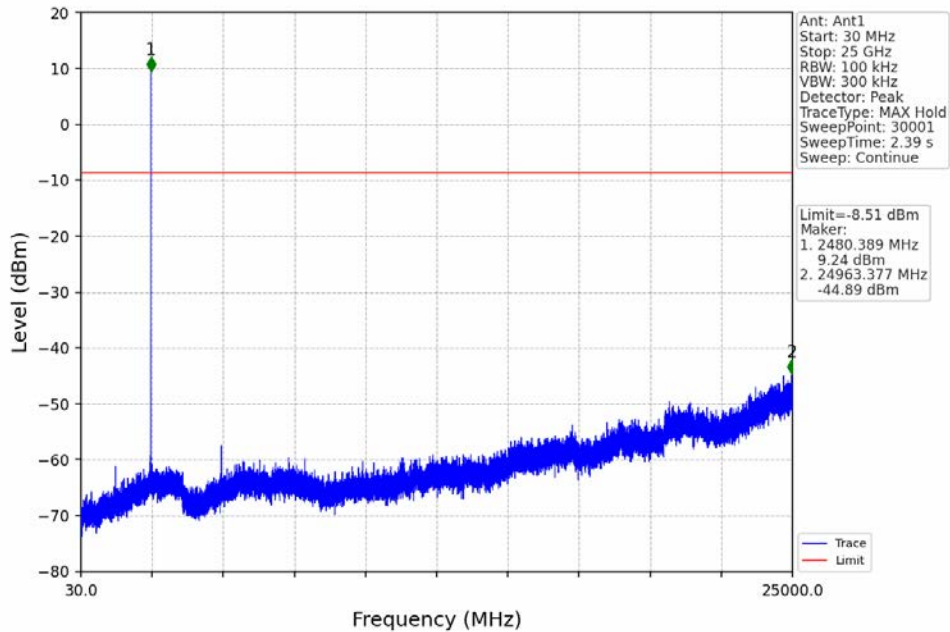
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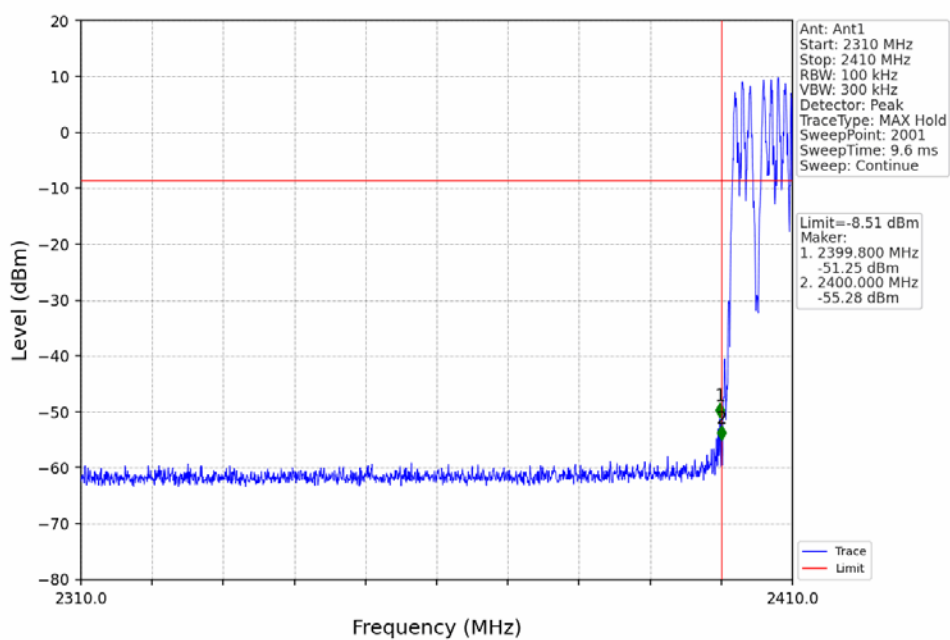
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Page: 153 of 161

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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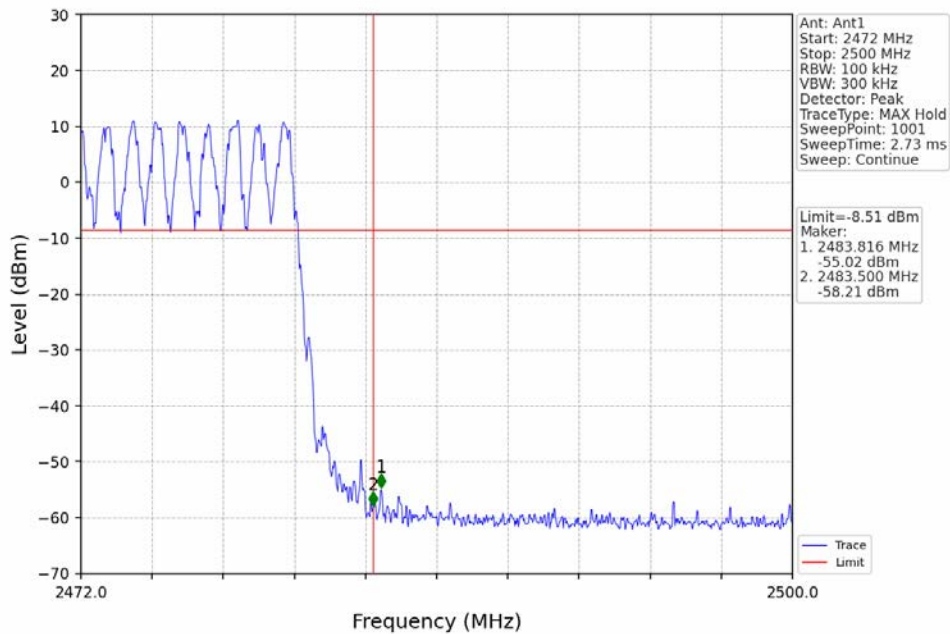
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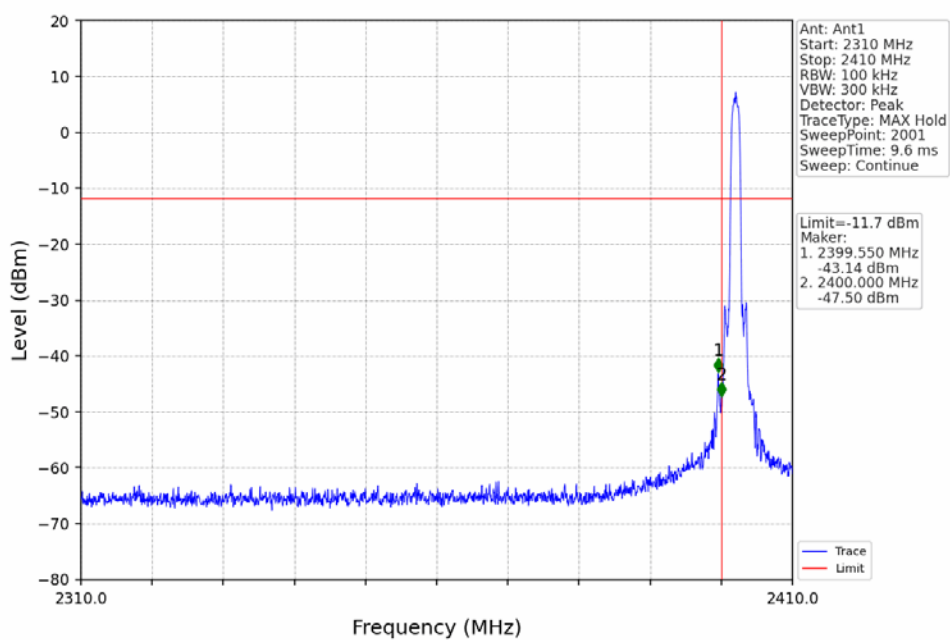
Report No.: FYCR221000041902

Page: 154 of 161

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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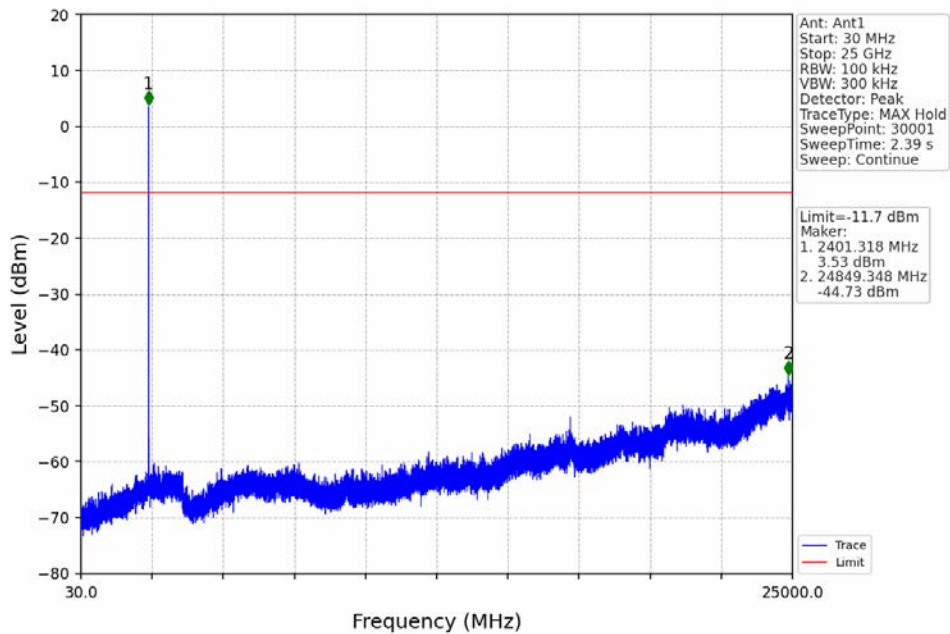
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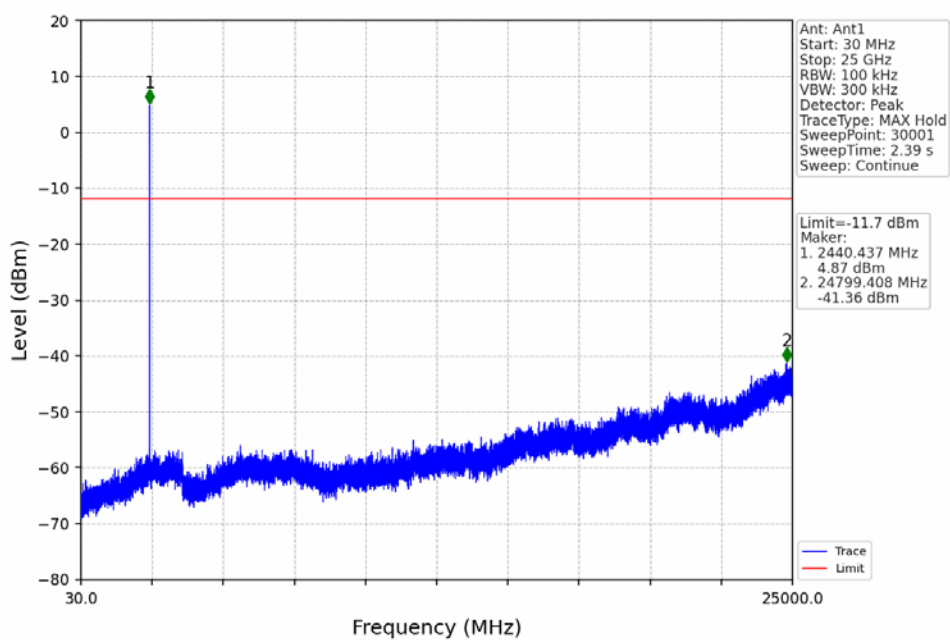
Report No.: FYCR221000041902

Page: 155 of 161

Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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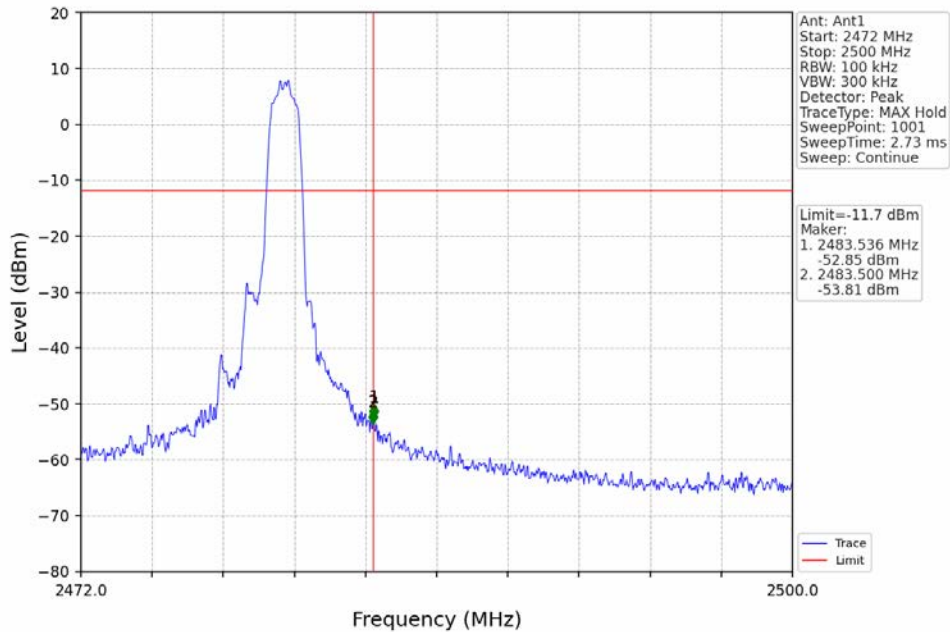
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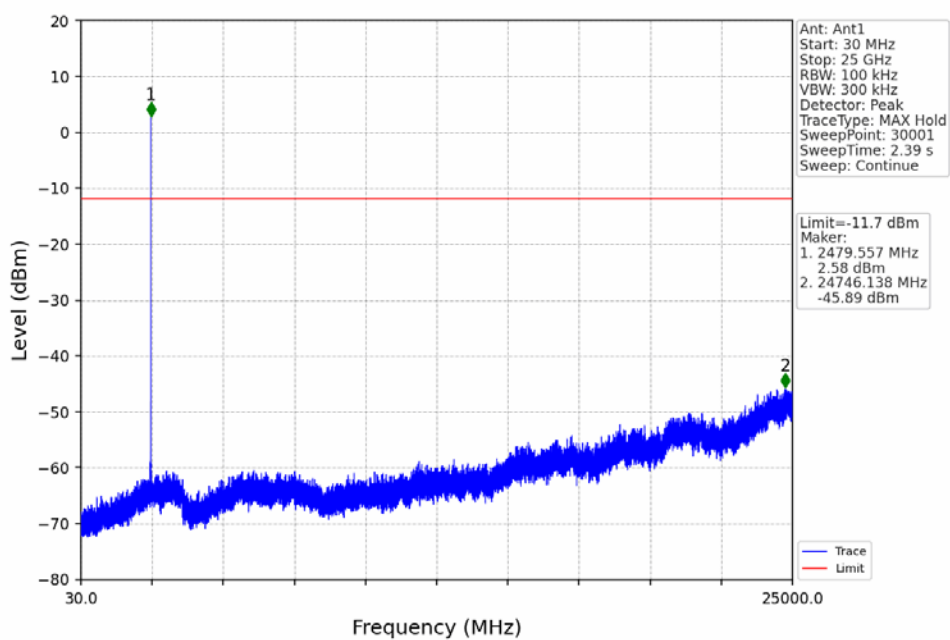
Report No.: FYCR221000041902

Page: 156 of 161

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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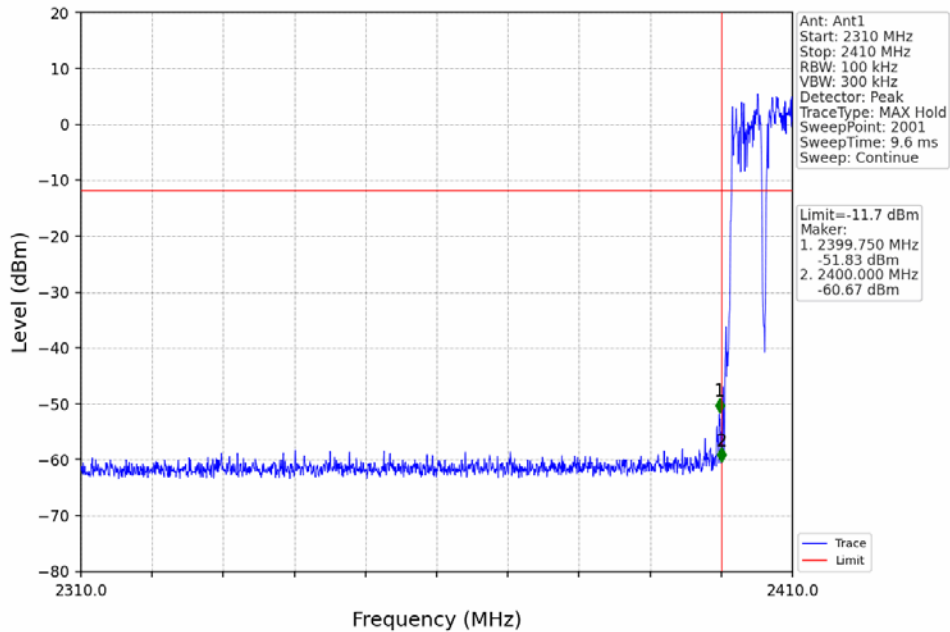
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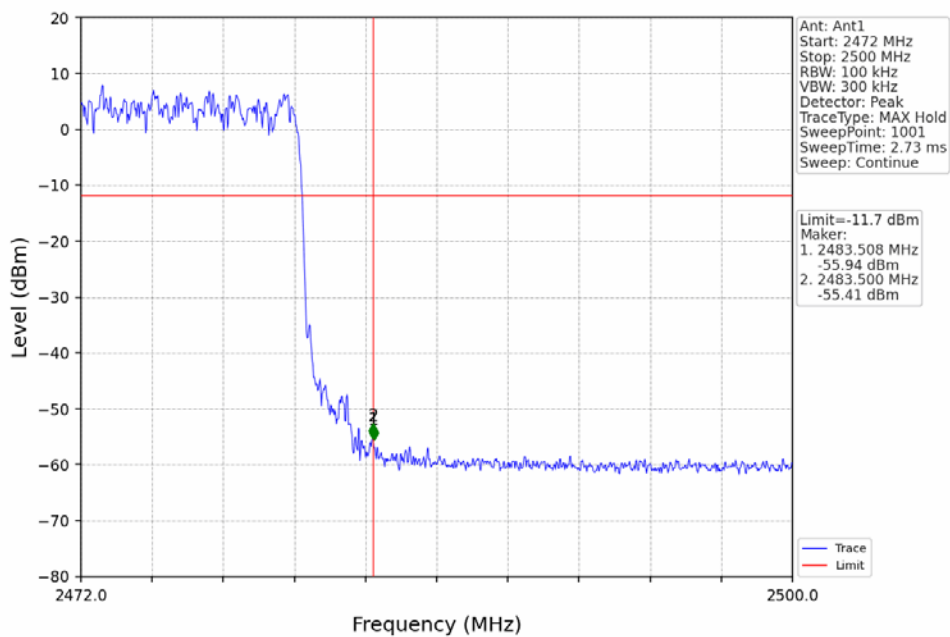
Report No.: FYCR221000041902

Page: 157 of 161

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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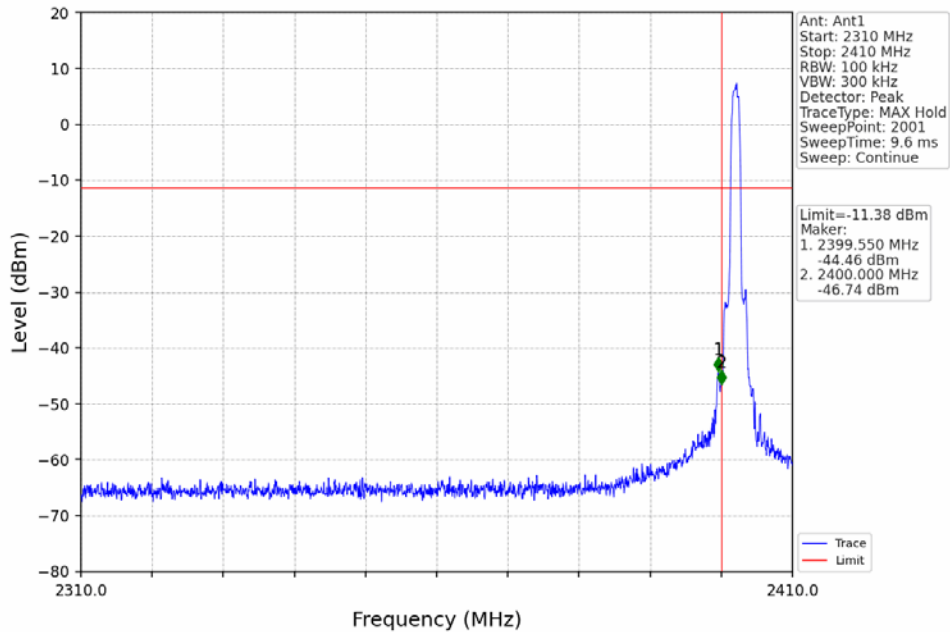
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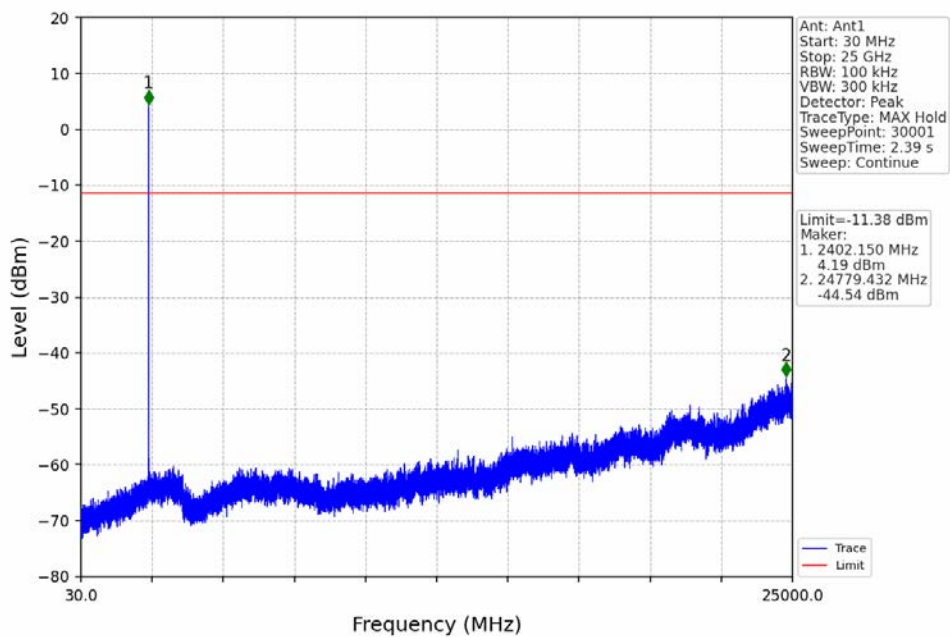
Report No.: FYCR221000041902

Page: 158 of 161

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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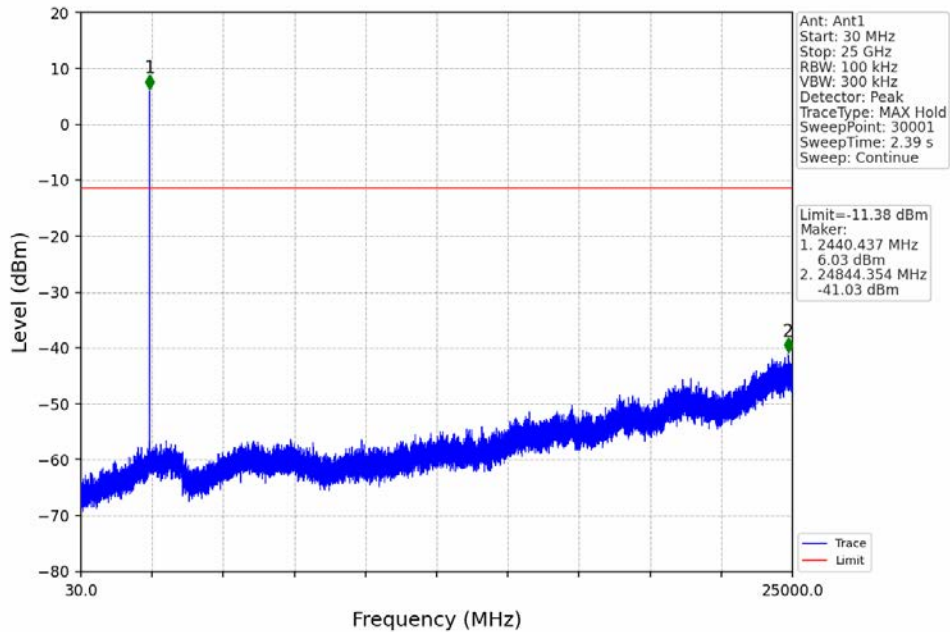
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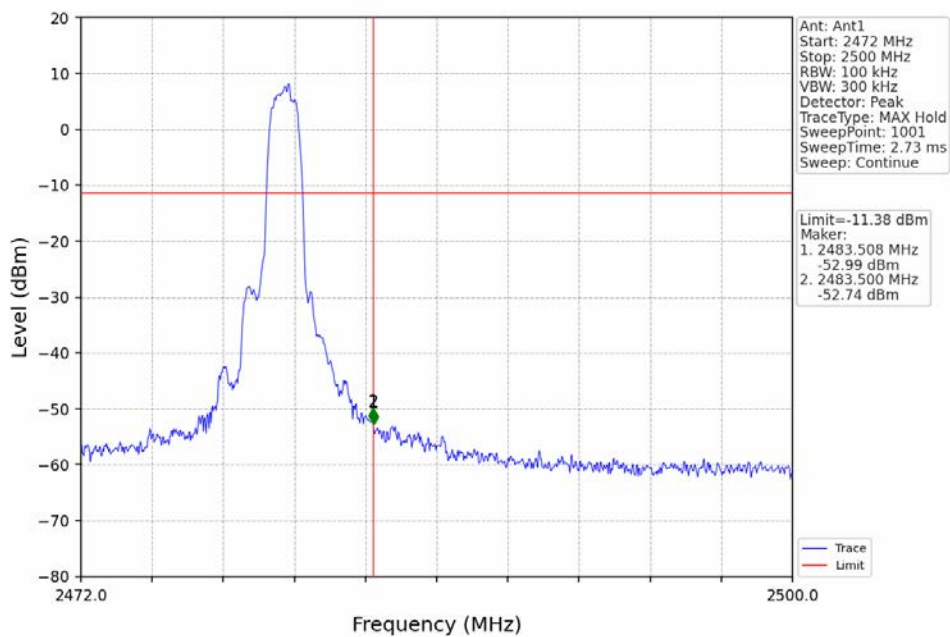
Report No.: FYCR221000041902

Page: 159 of 161

8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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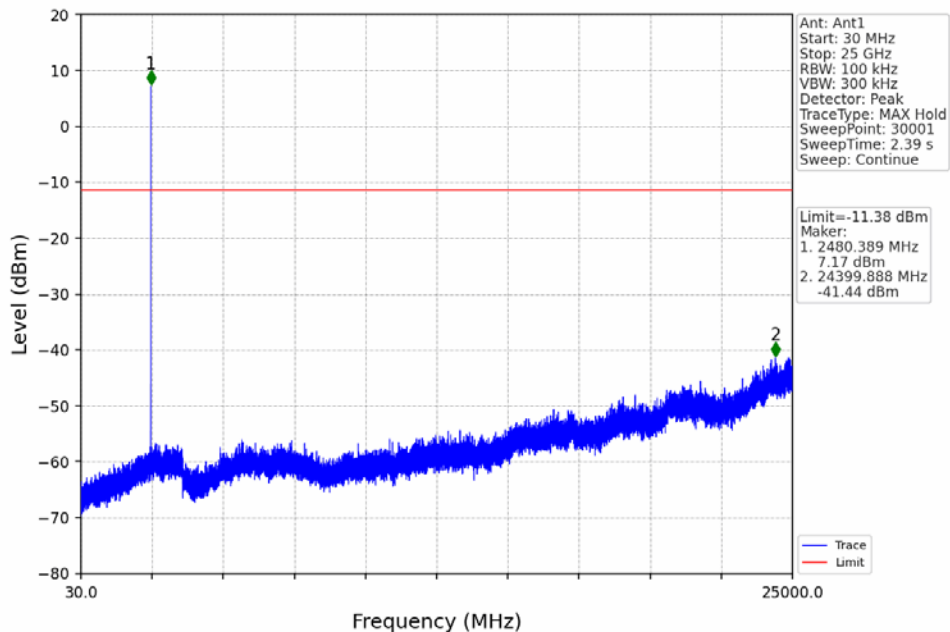
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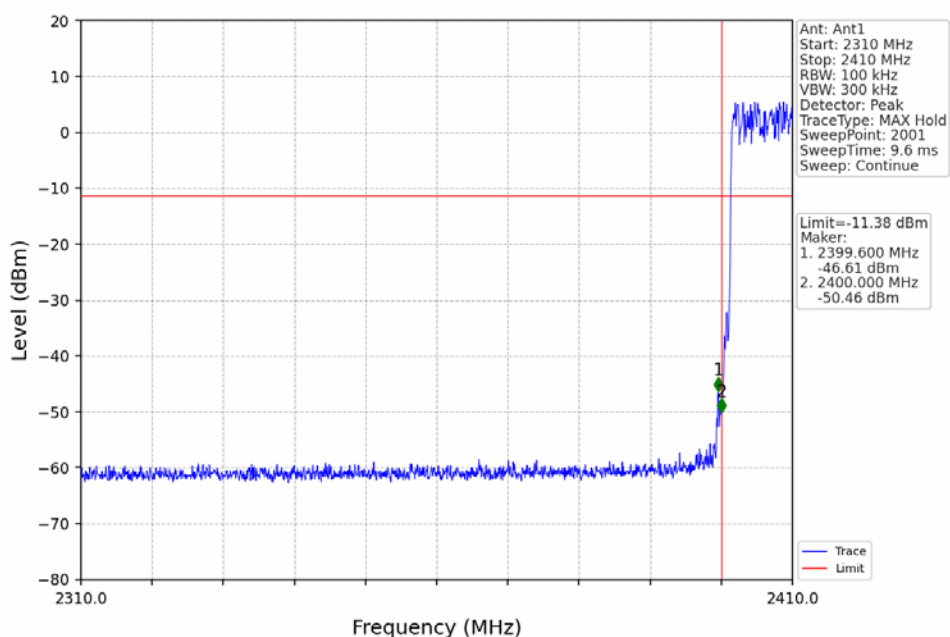
Report No.: FYCR221000041902

Page: 160 of 161

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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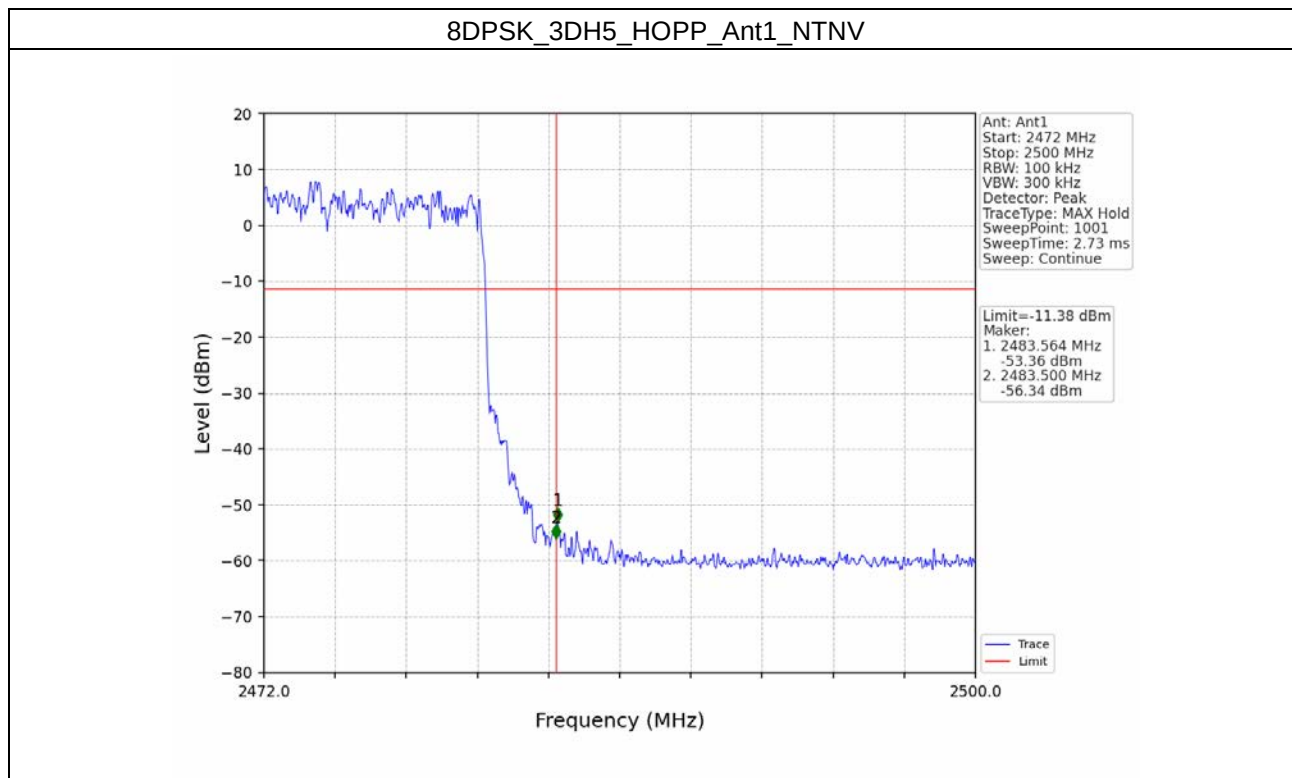
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Page: 161 of 161



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