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Annex for LoRa

Test Report No.: CTL2506258051-WF

TABLE OF CONTENTS

1. Duty Cycle	3
1.1 Test Result	3
1.1.1 Ant1	3
1.2 Test Graph.....	4
1.2.1 Ant1	4
2. Bandwidth.....	7
2.1 Test Result	7
2.1.1 OBW	7
2.1.2 6dB BW	7
2.2 Test Graph.....	8
2.2.1 OBW	8
2.2.2 6dB BW	11
3. Maximum Conducted Output Power	14
3.1 Test Result	14
3.1.1 Power	14
4. Maximum Power Spectral Density	15
4.1 Test Result	15
4.1.1 PSD	15
4.2 Test Graph.....	16

FCCID: 2AYSD-WT5338

4.2.1 PSD	16
5. Unwanted Emissions In Non-restricted Frequency Bands.....	19
5.1 Test Result	19
5.1.1 Ref.....	19
5.1.2 CSE	19
5.2 Test Graph.....	20
5.2.1 Ref.....	20
5.2.2 CSE	23

FCCID: 2AYSD-WT5338

1. Duty Cycle

1.1 Test Result

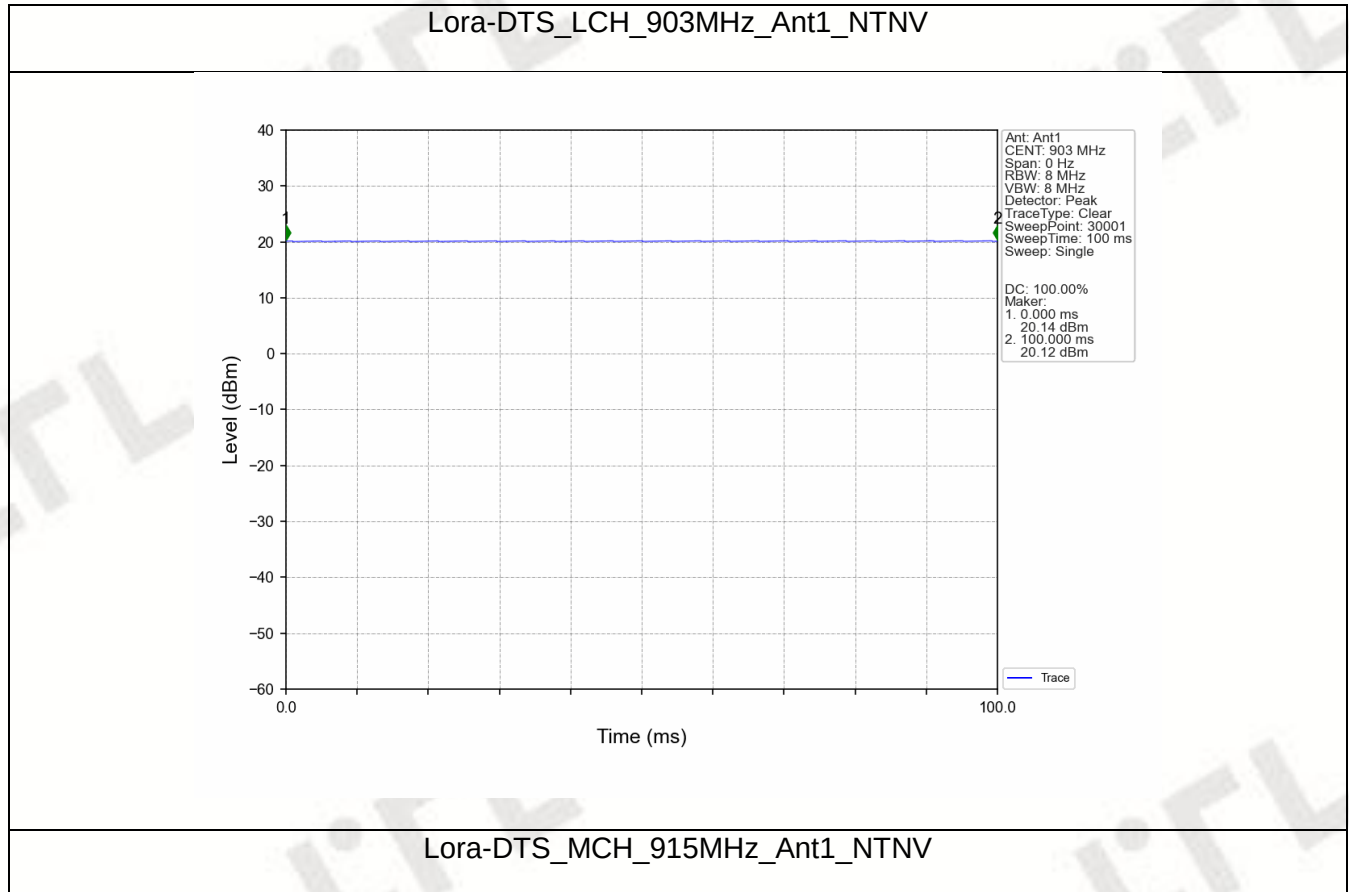
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
Lora-DTS	SISO	903	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		927	100.000	100.000	100.00	0.00	0.00

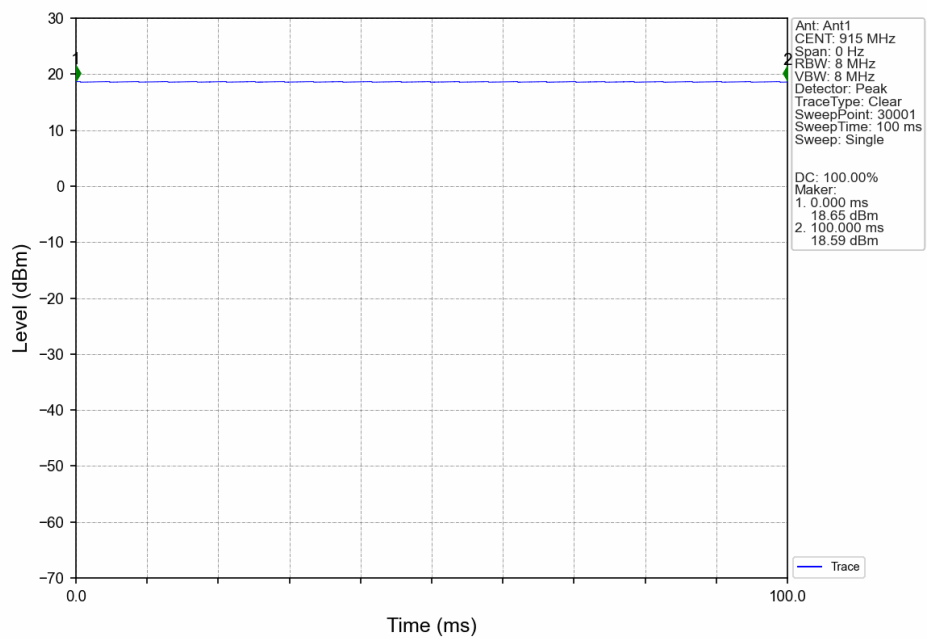
FCCID: 2AYSD-WT5338

1.2 Test Graph

1.2.1 Ant1

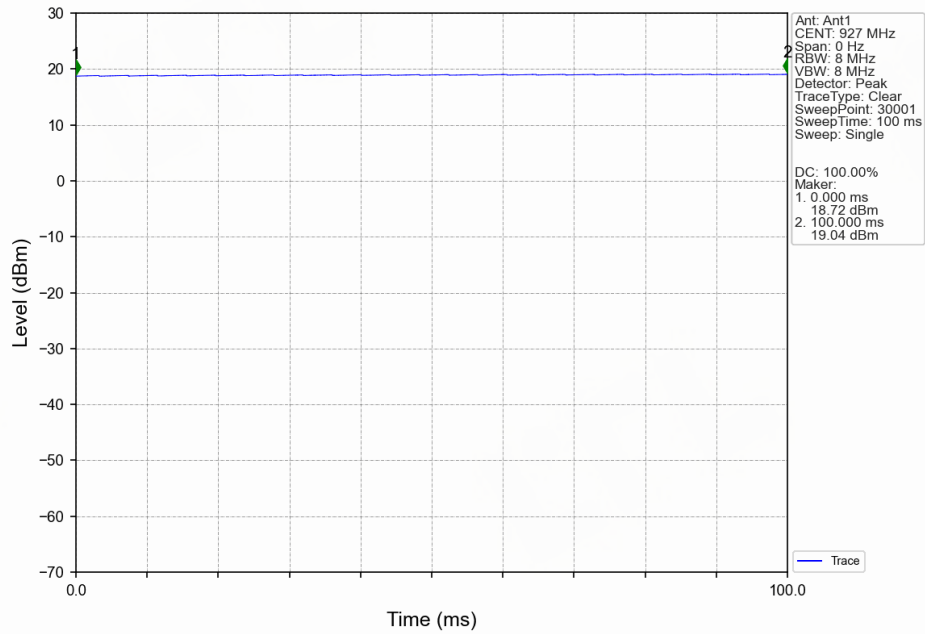


FCCID: 2AYSD-WT5338



FCCID: 2AYS-D-WT5338

Lora-DTS_HCH_927MHz_Ant1_NTNV



FCCID: 2AYSD-WT5338

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
Lora-DTS	SISO	903	1	0.548	/	Pass
		915	1	0.546	/	Pass
		927	1	0.550	/	Pass

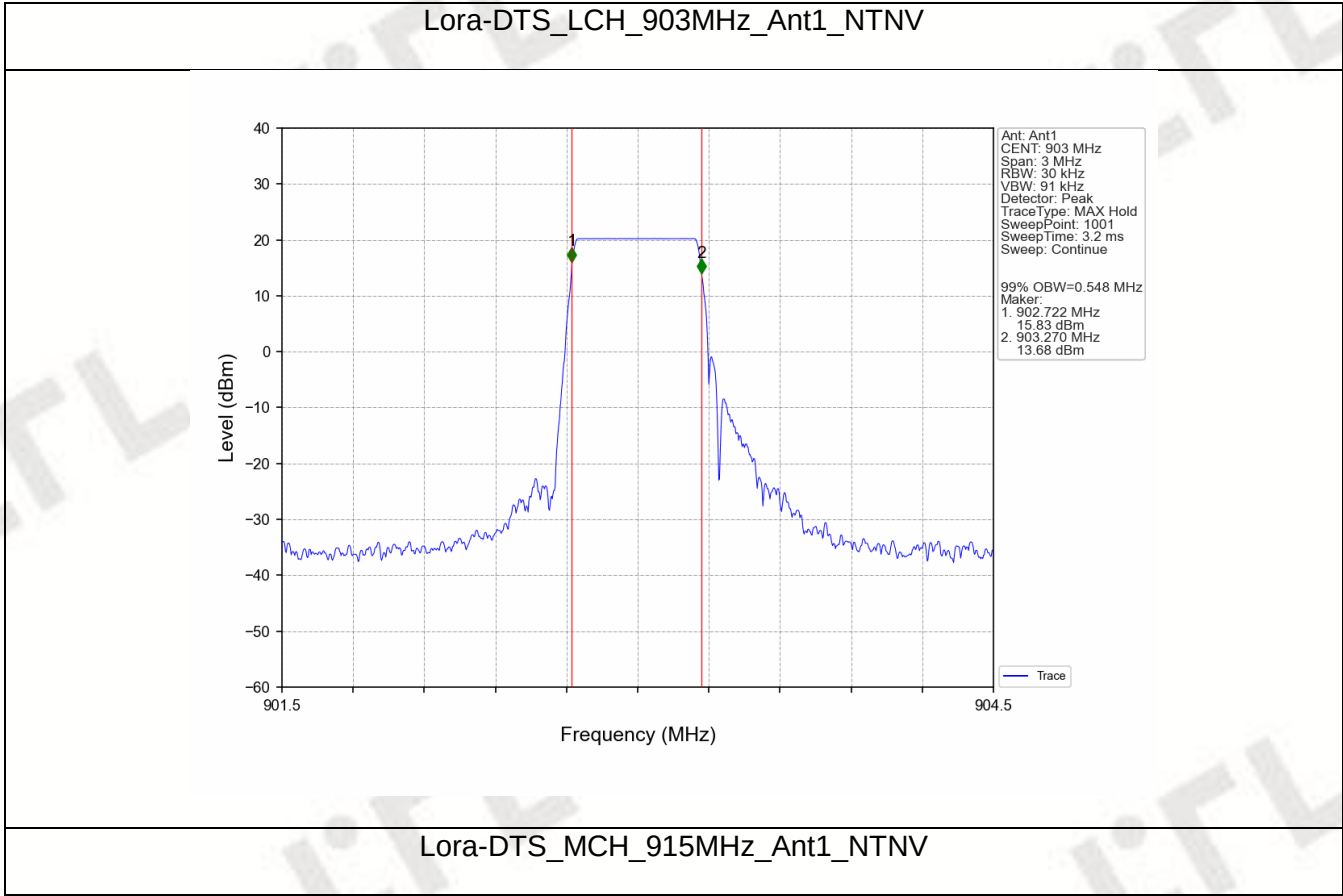
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
Lora-DTS	SISO	903	1	0.642	≥ 0.5	Pass
		915	1	0.642	≥ 0.5	Pass
		927	1	0.640	≥ 0.5	Pass

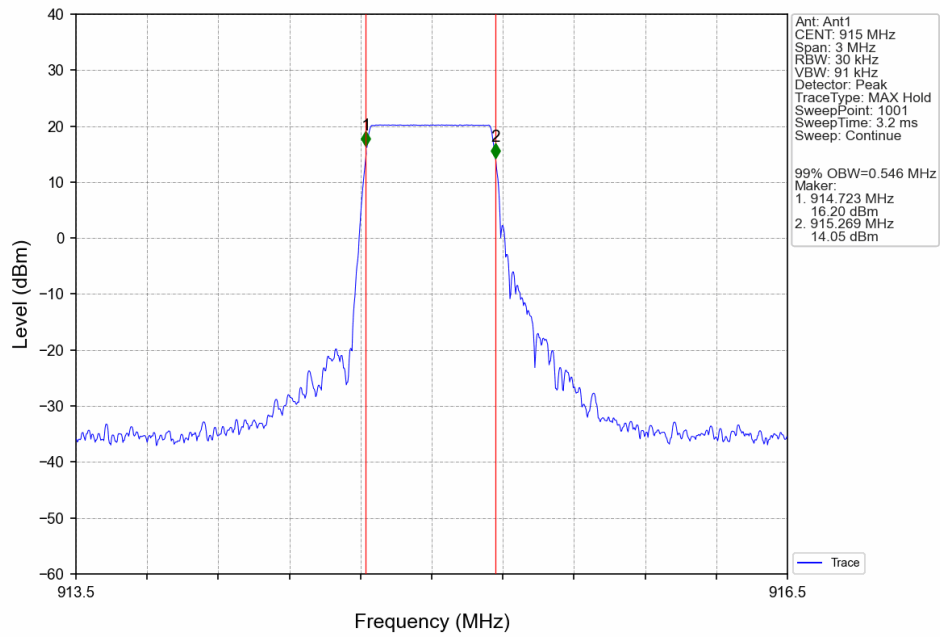
FCCID: 2AYSD-WT5338

2.2 Test Graph

2.2.1 OBW

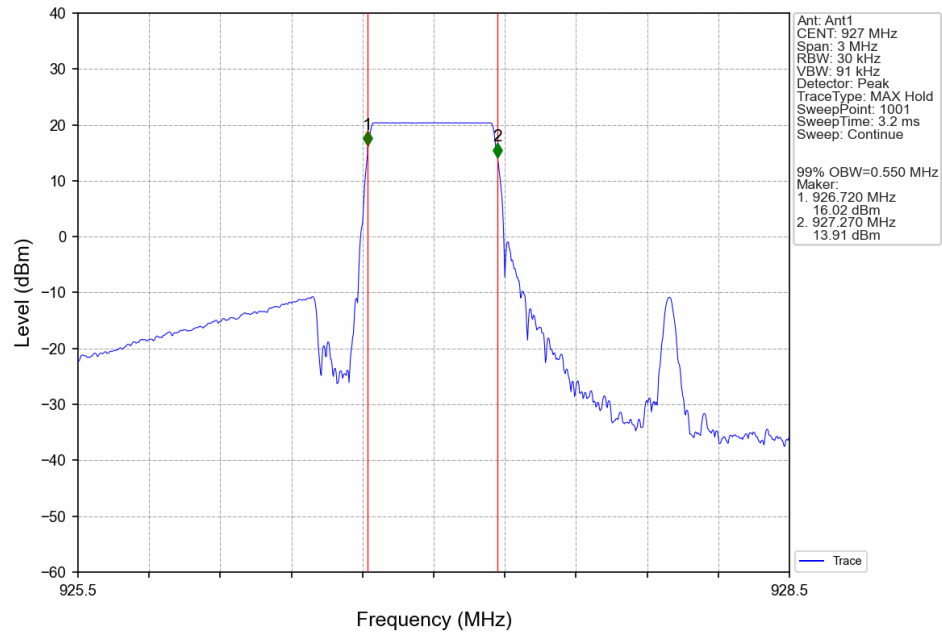


FCCID: 2AYS-D-WT5338



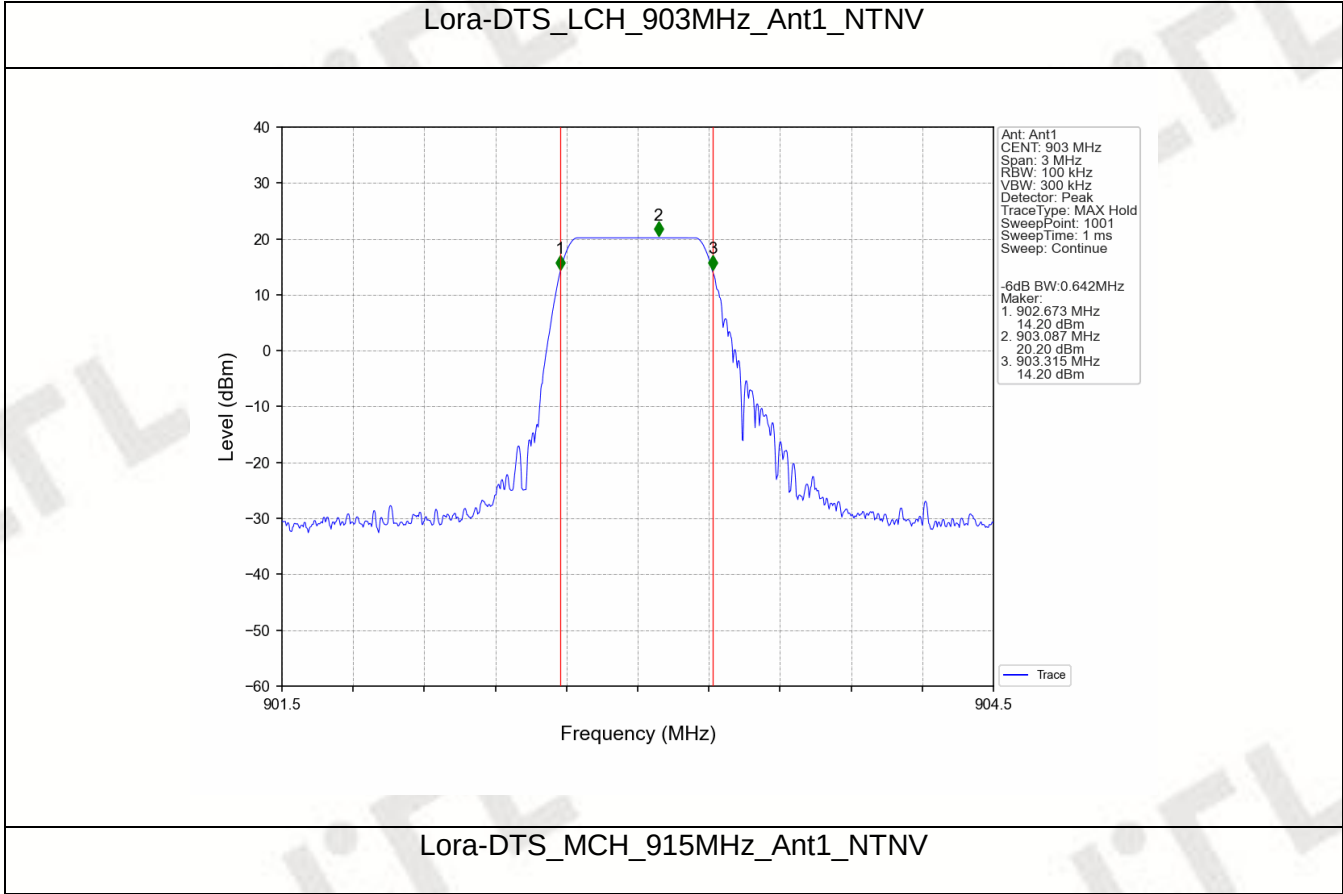
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Lora-DTS_HCH_927MHz_Ant1_NTNV

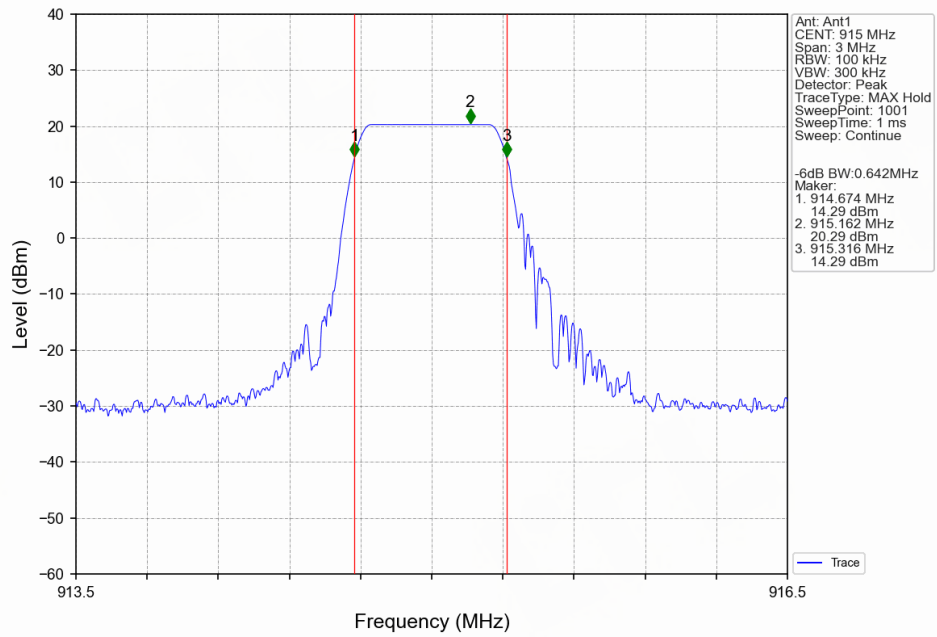


FCCID: 2AYSD-WT5338

2.2.2 6dB BW

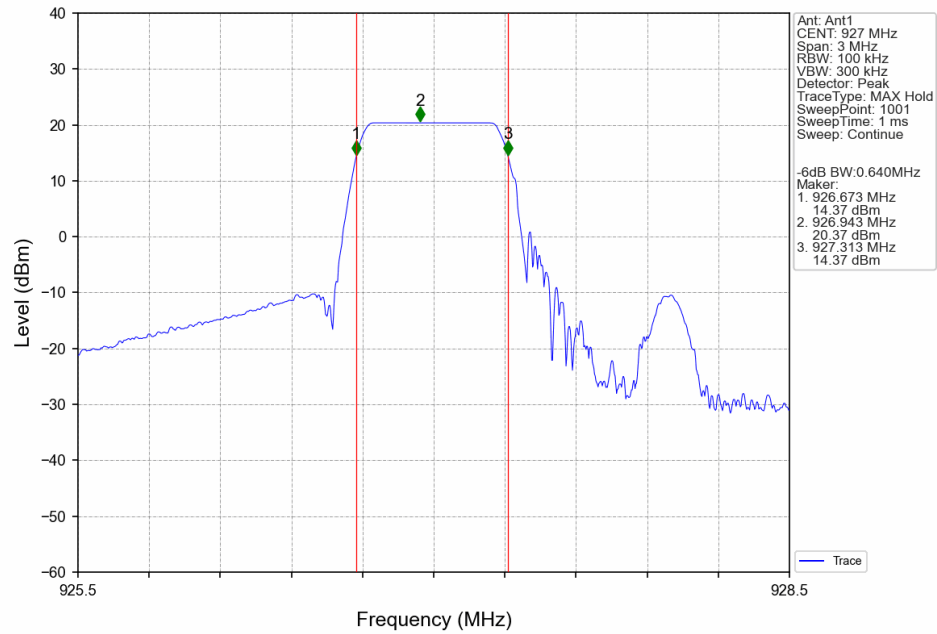


FCCID: 2AYSD-WT5338



FCCID: 2AYSD-WT5338

Lora-DTS_HCH_927MHz_Ant1_NTNV



FCCID: 2AYSD-WT5338

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
Lora-DTS	SISO	903	20.04	<=30	Pass
		915	20.40	<=30	Pass
		927	20.18	<=30	Pass
Note1: Antenna Gain: Ant1: 0.00dBi;					

FCCID: 2AYS-DWT5338

4. Maximum Power Spectral Density

4.1 Test Result

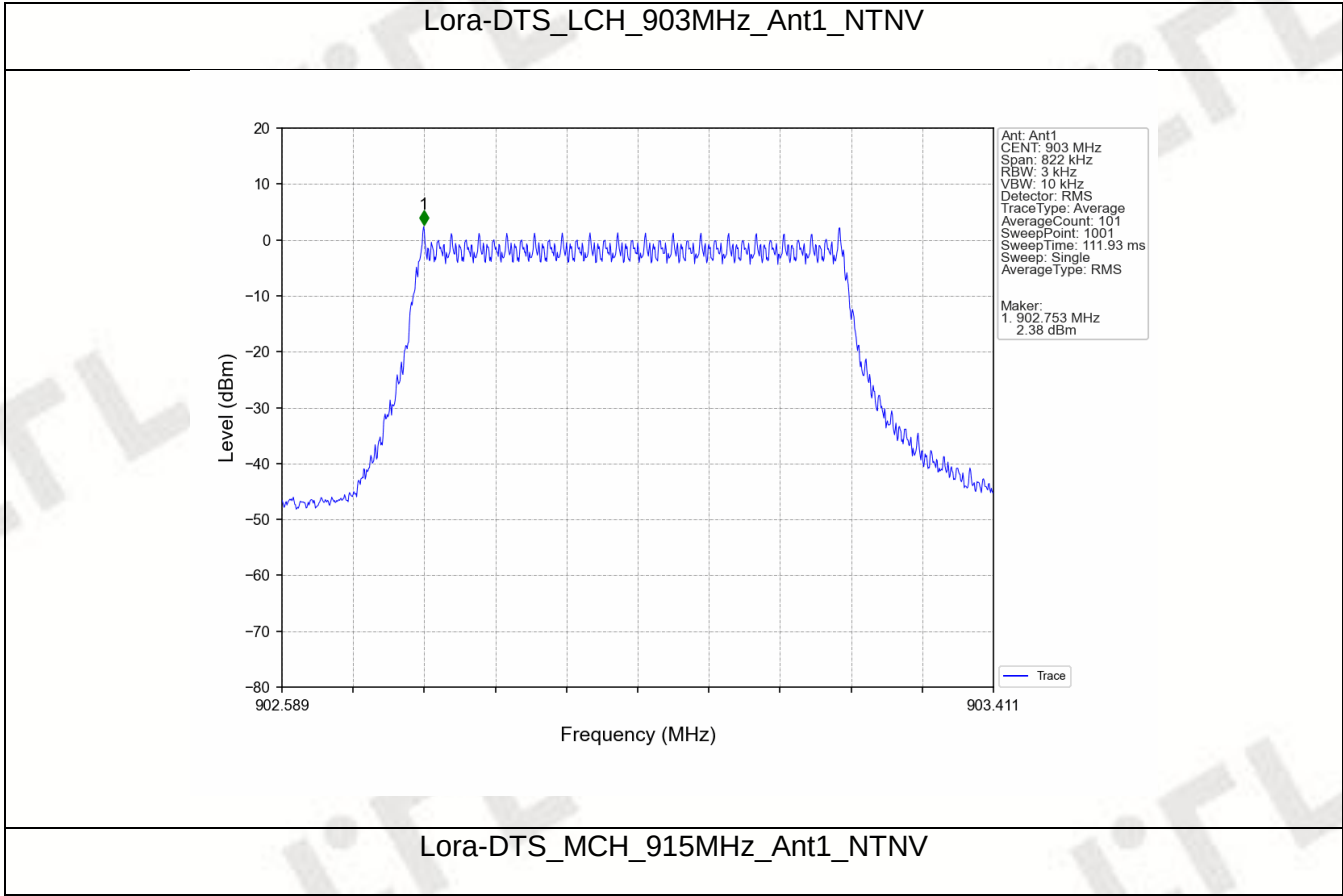
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
Lora-DTS	SISO	903	2.38	<=8	Pass
		915	1.43	<=8	Pass
		927	0.52	<=8	Pass
Note1: Antenna Gain: Ant1: 0.00dBi;					

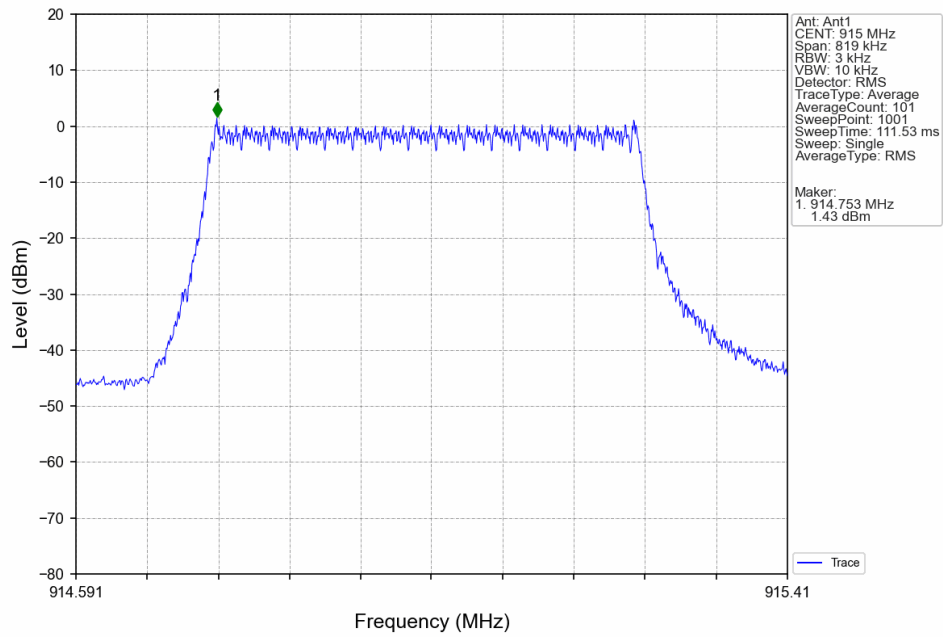
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4.2 Test Graph

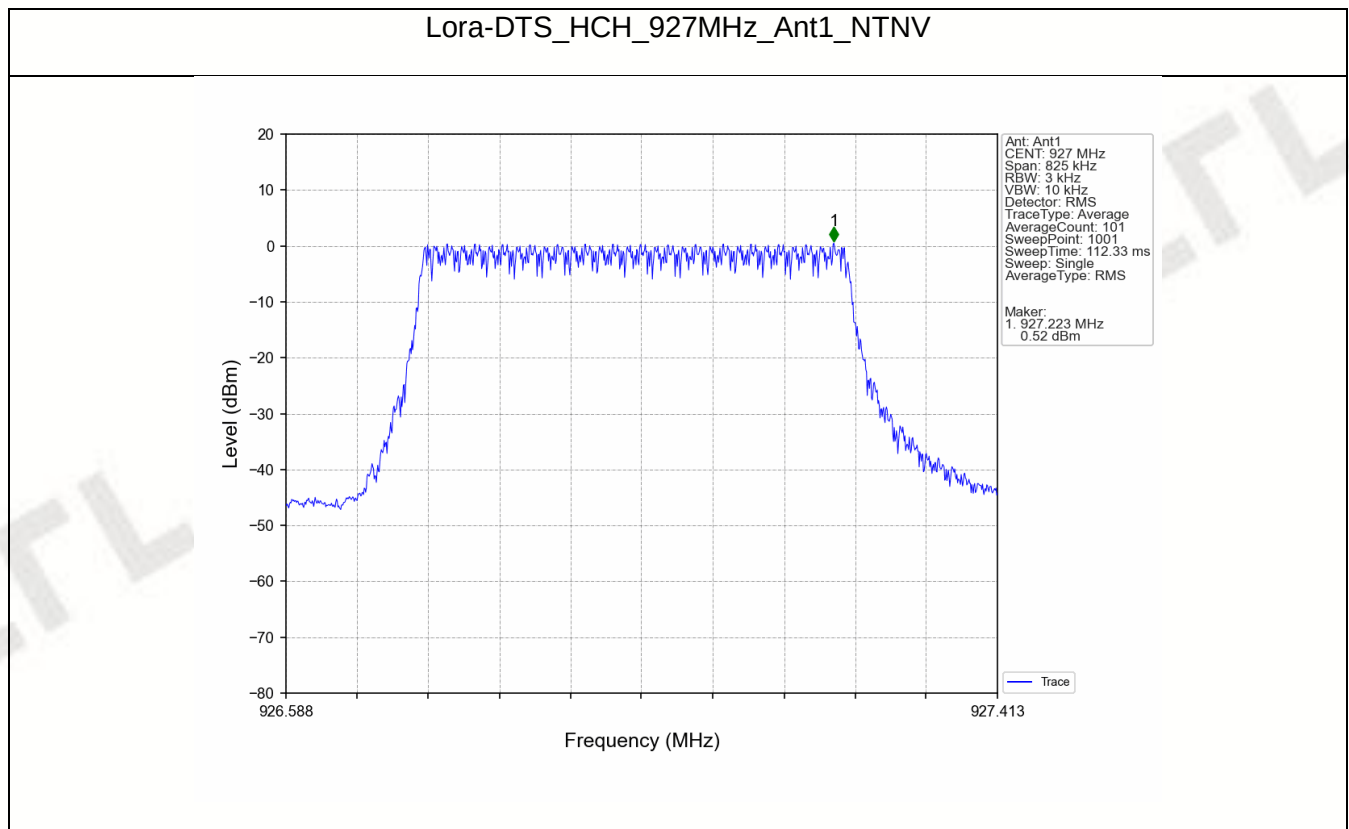
4.2.1 PSD



FCCID: 2AYSD-WT5338



FCCID: 2AYS-D-WT5338



FCCID: 2AYSD-WT5338

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)
Lora-DTS	SISO	903	1	20.21
		915	1	20.37
		927	1	20.43
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

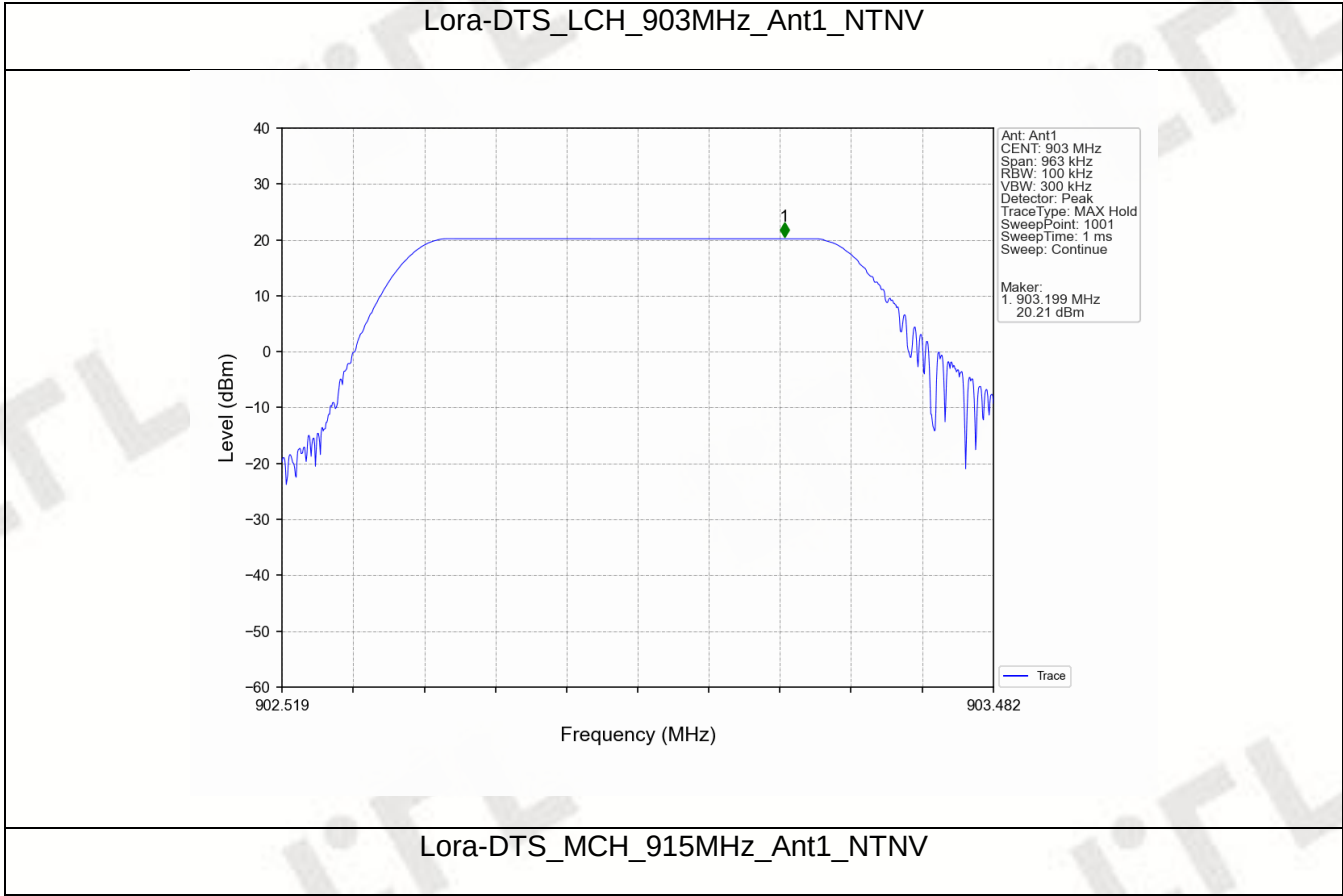
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
Lora-DTS	SISO	903	1	20.43	-9.57	Pass
		915	1	20.43	-9.57	Pass
		927	1	20.43	-9.57	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

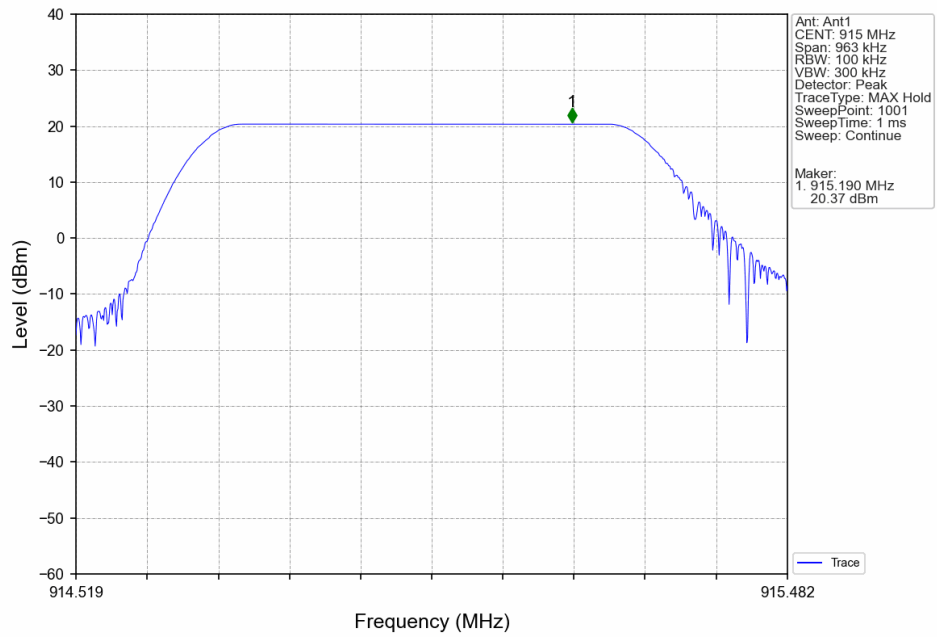
FCCID: 2AYSD-WT5338

5.2 Test Graph

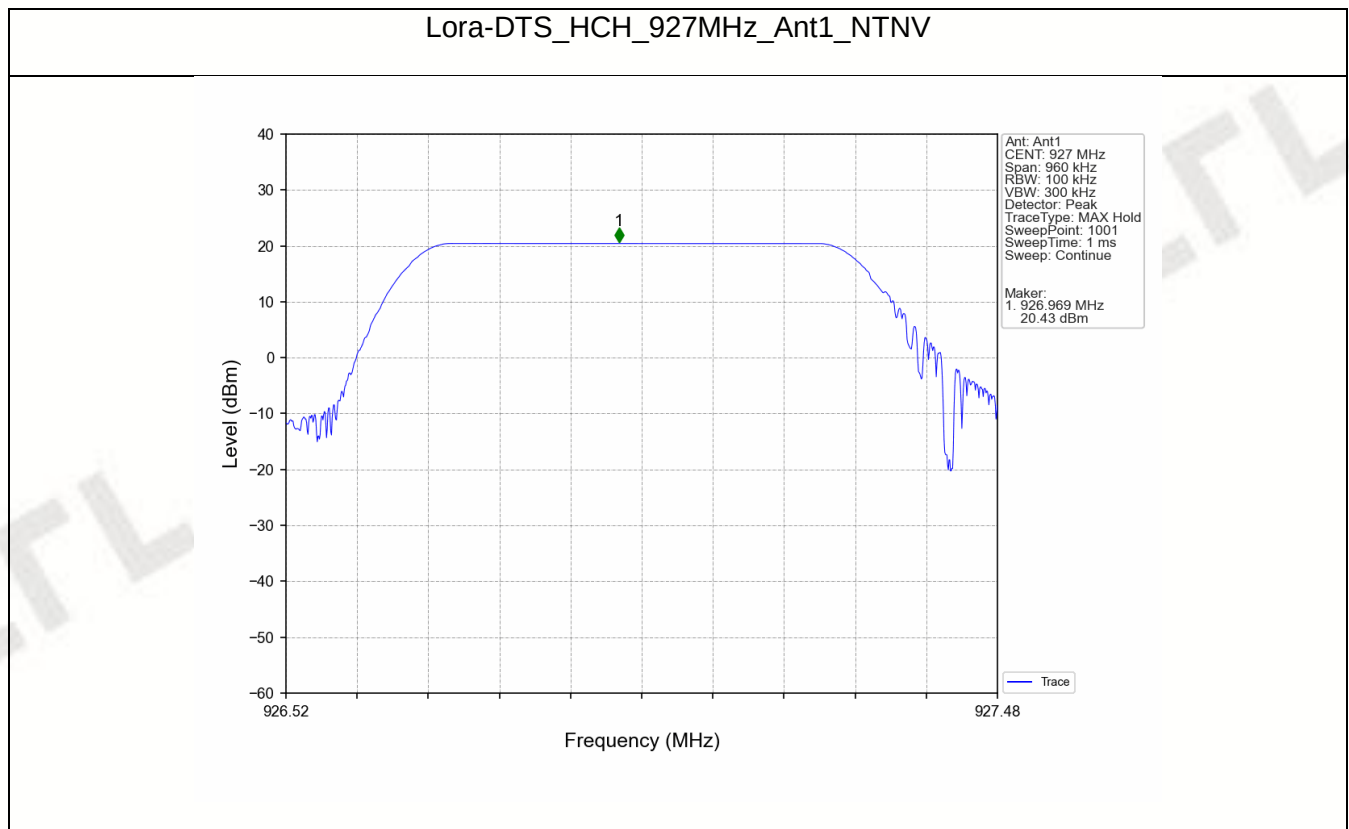
5.2.1 Ref



FCCID: 2AYSD-WT5338

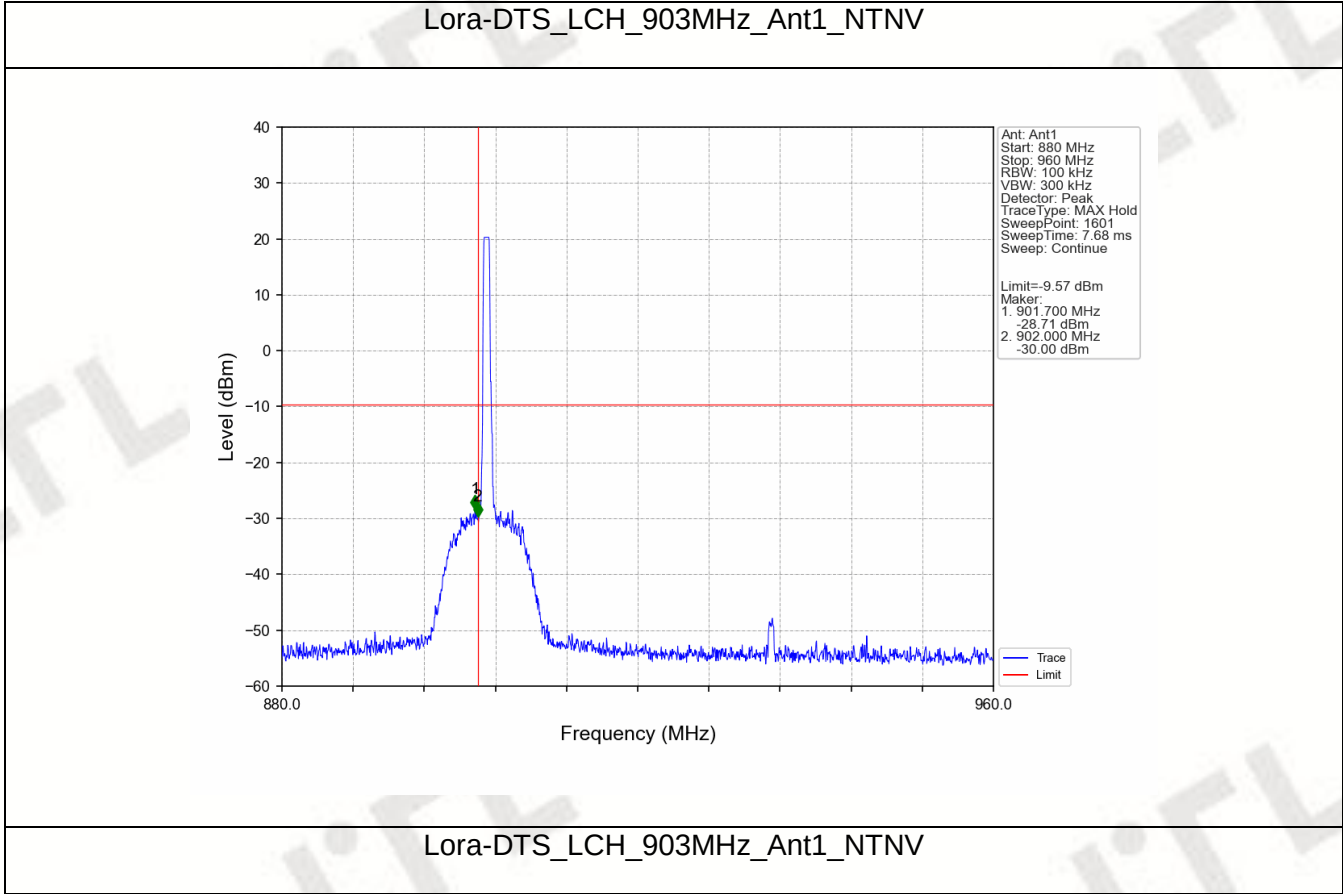


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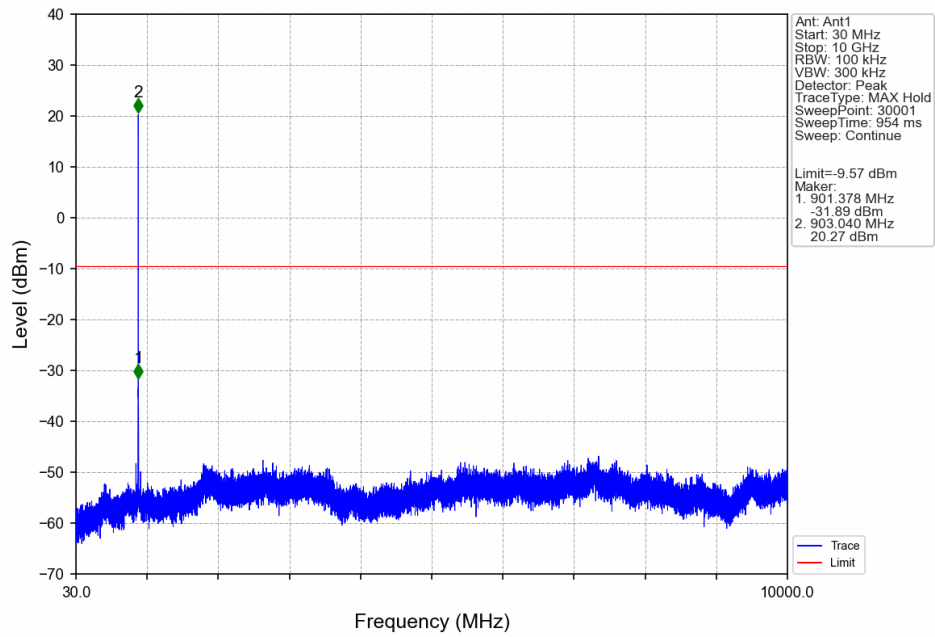


FCCID: 2AYSD-WT5338

5.2.2 CSE

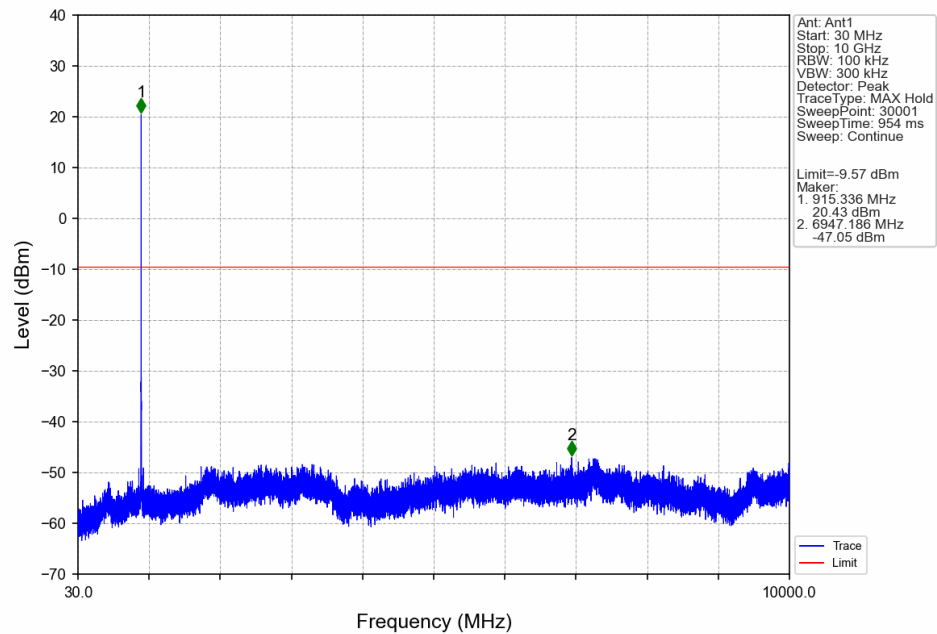


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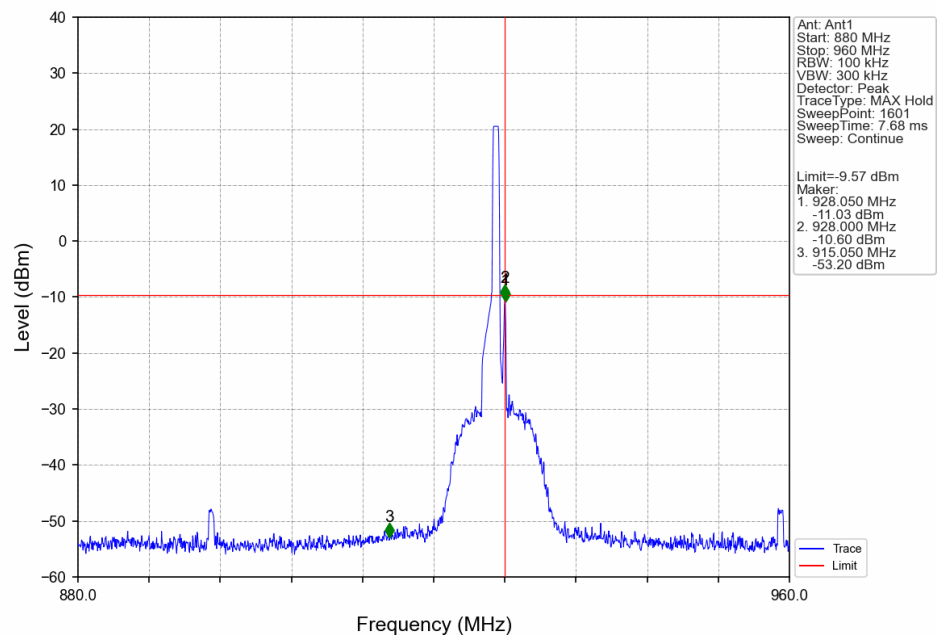


FCCID: 2AYSD-WT5338

Lora-DTS_MCH_915MHz_Ant1_NTNV



Lora-DTS_HCH_927MHz_Ant1_NTNV



FCCID: 2AYSD-WT5338

