

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LORA	Ant1	904.5	0.621	903.879	905.121	0.5	PASS
		915.0	0.604	914.396	915.604	0.5	PASS
		927.0	0.619	926.381	927.619	0.5	PASS

Test Graphs

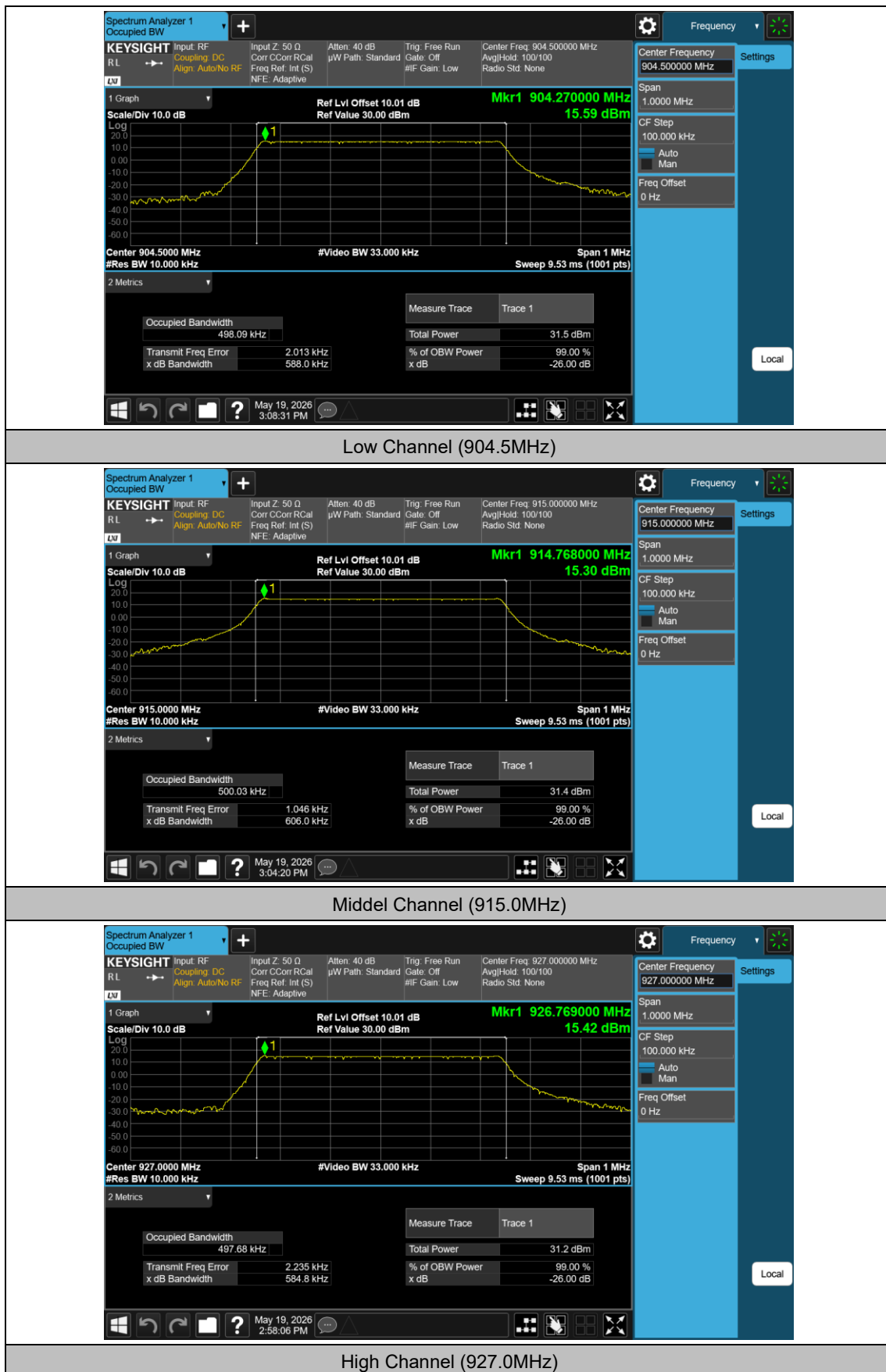


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LORA	Ant1	904.5	0.4981	904.0019	904.9981	---	---
		915.0	0.5000	914.5000	915.5000	---	---
		927.0	0.4977	926.5023	927.4977	---	---

Test Graphs

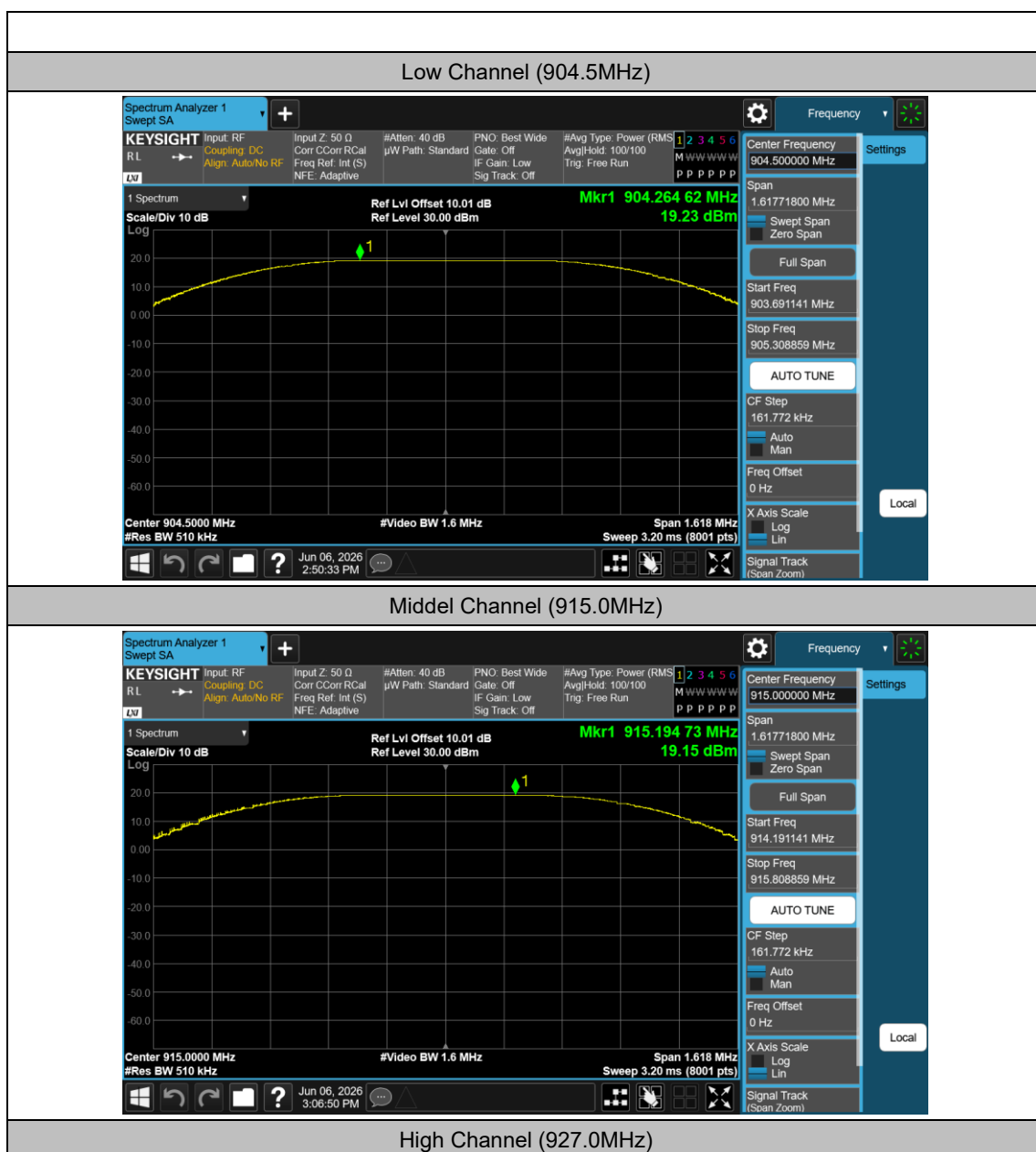


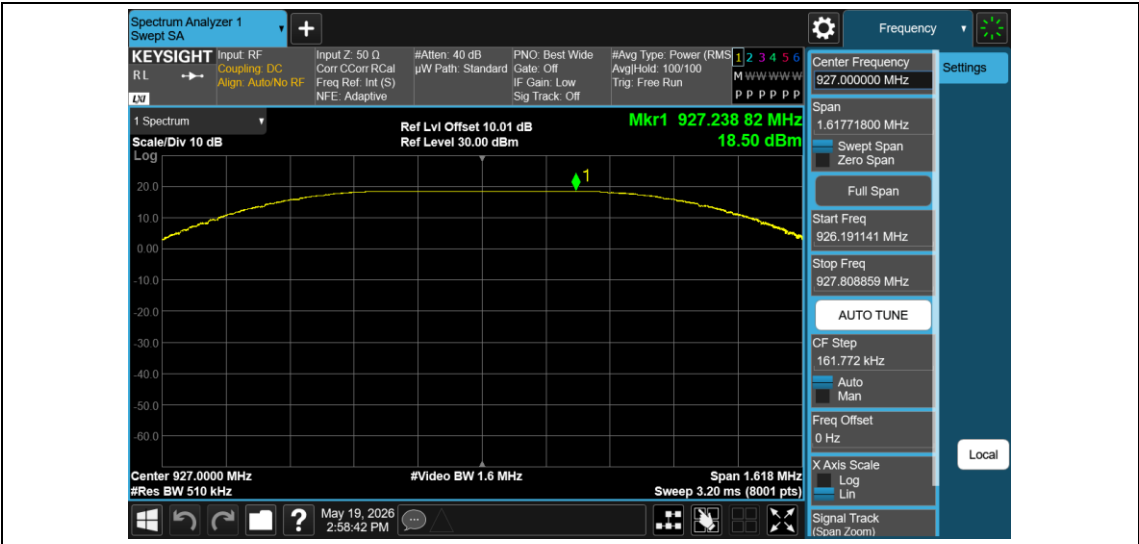
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
LORA	Ant1	904.5	19.23	≤30	20.68	≤36	PASS
		915.0	19.15	≤30	20.60	≤36	PASS
		927.0	18.50	≤30	19.95	≤36	PASS

Test Graphs Peak



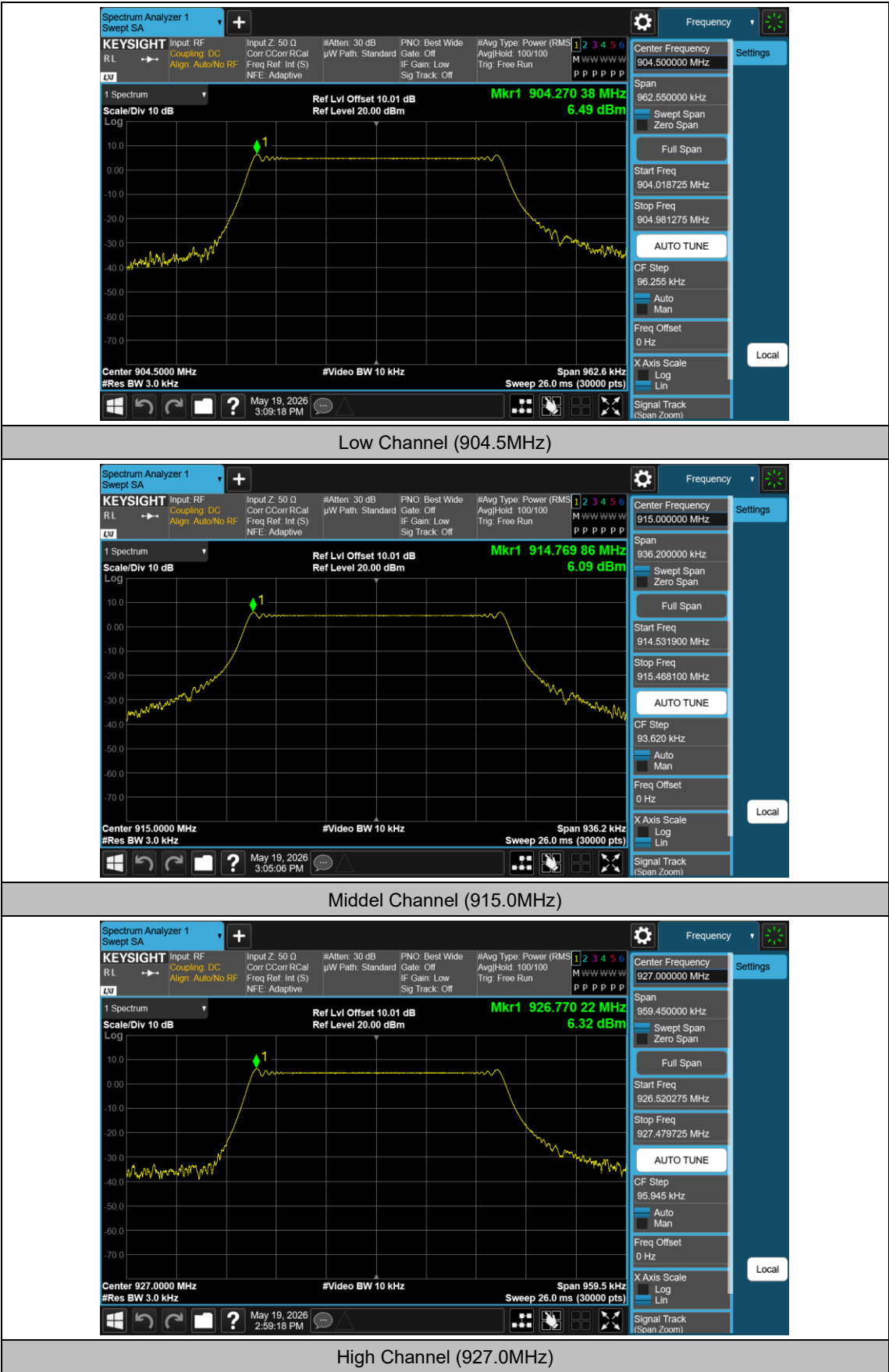


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
LORA	Ant1	904.5	6.49	≤8.00	PASS
		915.0	6.09	≤8.00	PASS
		927.0	6.32	≤8.00	PASS

Test Graphs

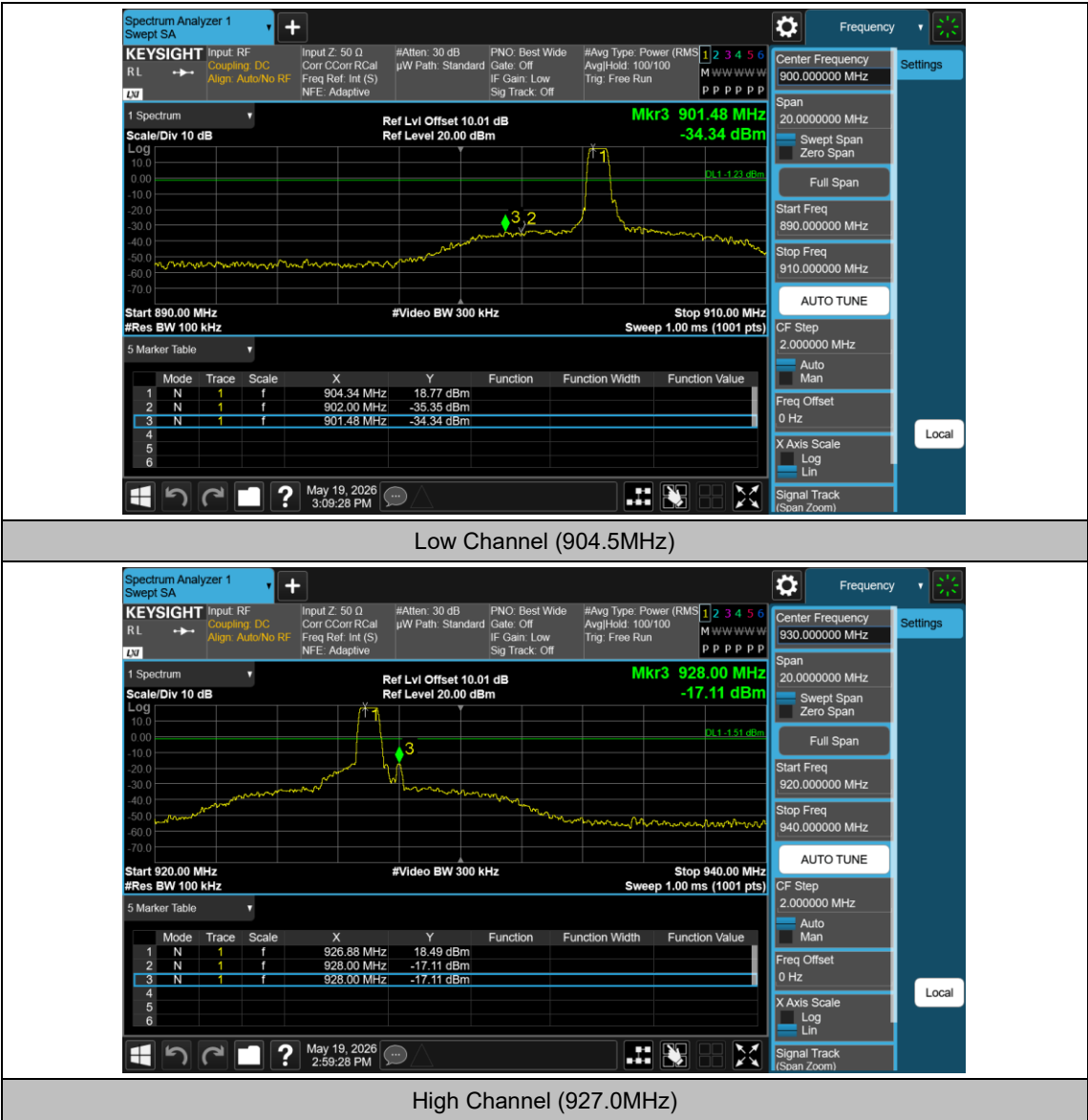


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
LORA	Ant1	Low	904.5	18.77	-34.34	≤-1.23	PASS
		High	927.0	18.49	-17.11	≤-1.51	PASS

Test Graphs



Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Align: Auto/No RF

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

Gate: Off

IF Gain: Low

Sig Track: Off

PNO: Best Wide

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P P P P P P

Center Frequency

930.000000 MHz

Span

20.000000 MHz

Swept Span

Zero Span

Full Span

Start Freq

920.000000 MHz

Stop Freq

940.000000 MHz

AUTO TUNE

CF Step

2.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 10.01 dB

Ref Level 20.00 dBm

Mkr3 928.00 MHz

-17.11 dBm

20.1 -15.1 dBm

Start 920.00 MHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 940.00 MHz

Sweep 1.00 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	926.88 MHz	18.49 dBm			
2	N	1	f	928.00 MHz	-17.11 dBm			
3	N	1	f	928.00 MHz	-17.11 dBm			
4								
5								
6								

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High Channel (927.0MHz)

Appendix F: Conducted Spurious Emission

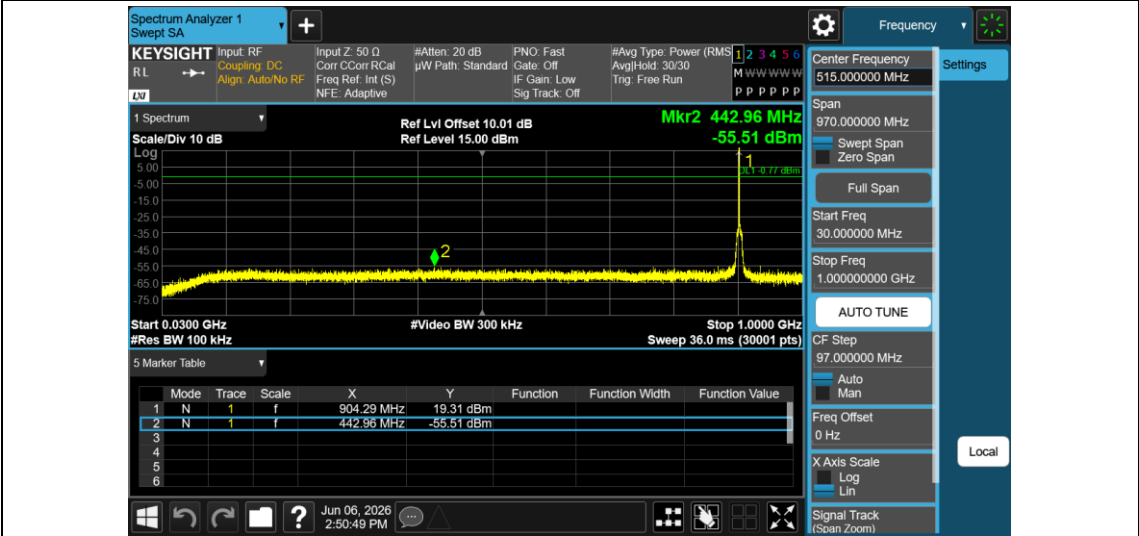
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
LORA	Ant1	904.5	Reference	19.23	19.23	---	PASS
			30~1000	19.23	-55.51	≤ -0.77	PASS
			1000~26500	19.23	-29.58	≤ -0.77	PASS
		915.0	Reference	19.05	19.05	---	PASS
			30~1000	19.05	-56.11	≤ -0.95	PASS
			1000~26500	19.05	-27.35	≤ -0.95	PASS
		927.0	Reference	18.50	18.50	---	PASS
			30~1000	18.50	-56.04	≤ -1.50	PASS
			1000~26500	18.50	-23.42	≤ -1.50	PASS

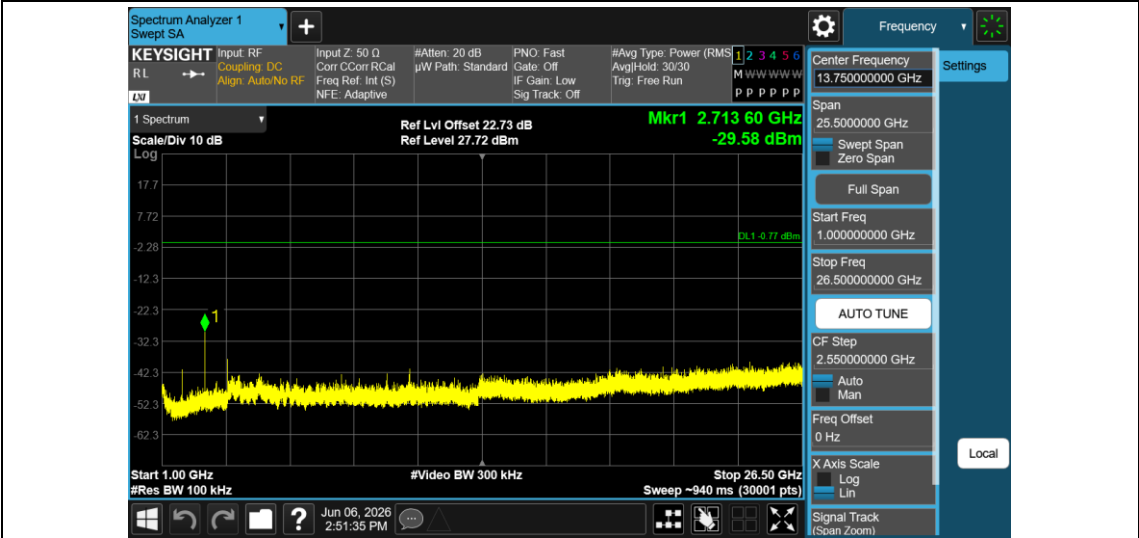
Test Graphs



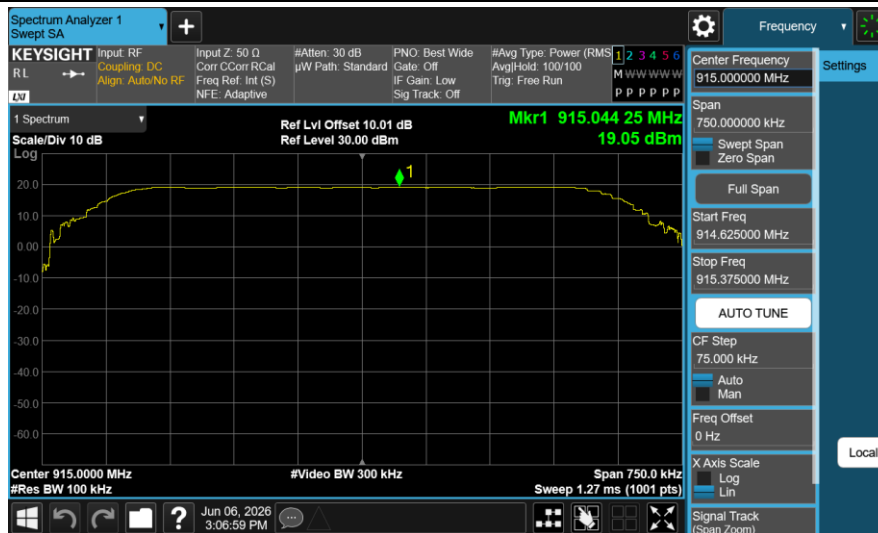
Low Channel (904.5MHz)_0~Reference



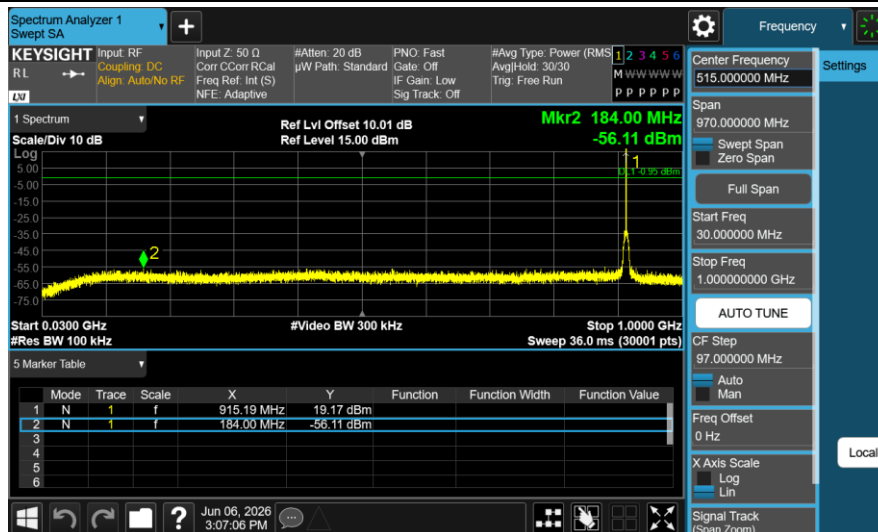
Low Channel (904.5MHz)_30~1000



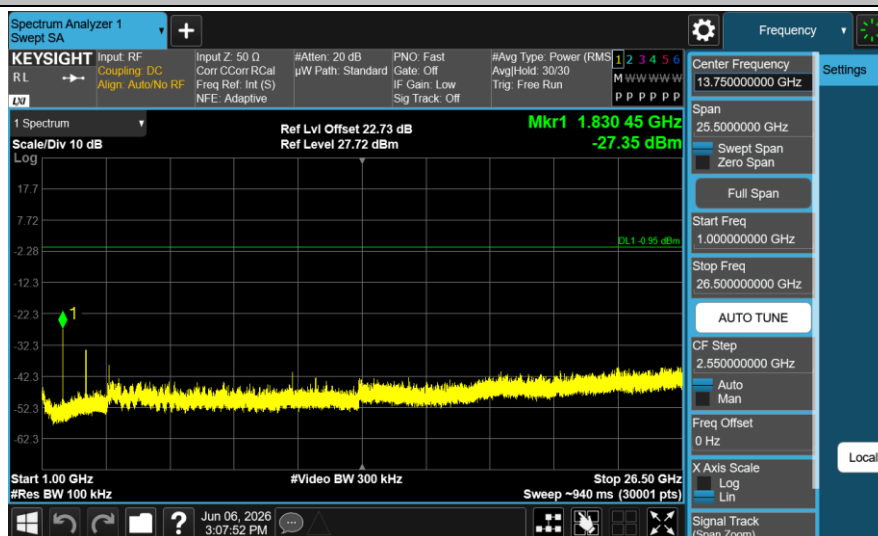
Low Channel (904.5MHz)_1000~26500



Middel Channel (915.0MHz)_0~Reference



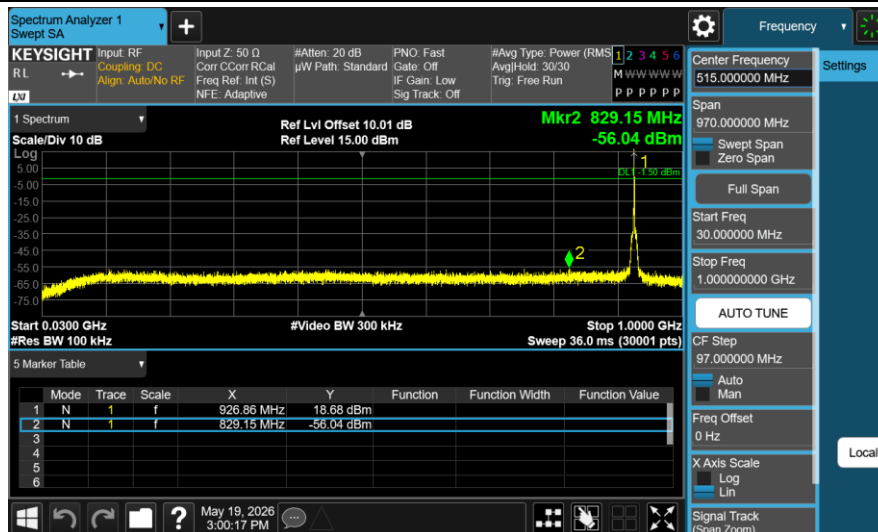
Middel Channel (915.0MHz)_30~1000



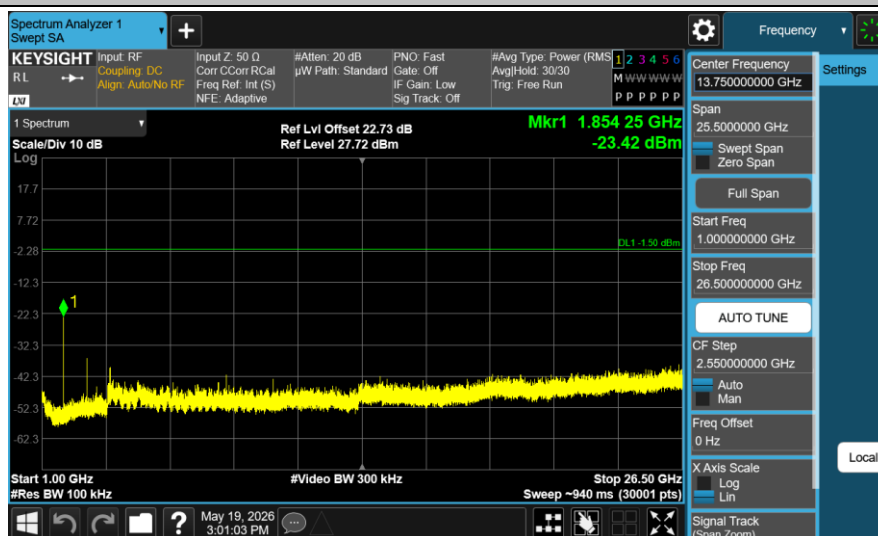
Middel Channel (915.0MHz)_1000~26500



High Channel (927.0MHz)_0~Reference



High Channel (927.0MHz)_30~1000



High Channel (927.0MHz)_1000~26500