

Appendix Test Data for LoRa-DTS (Conducted Measurement)

Product Name: Smart Linux Gateway

Trade Mark: Dusun

Test Model: DSGW-091

FCC ID: 2AUXBDSGW-091

Environmental Conditions

Temperature:	22.7℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

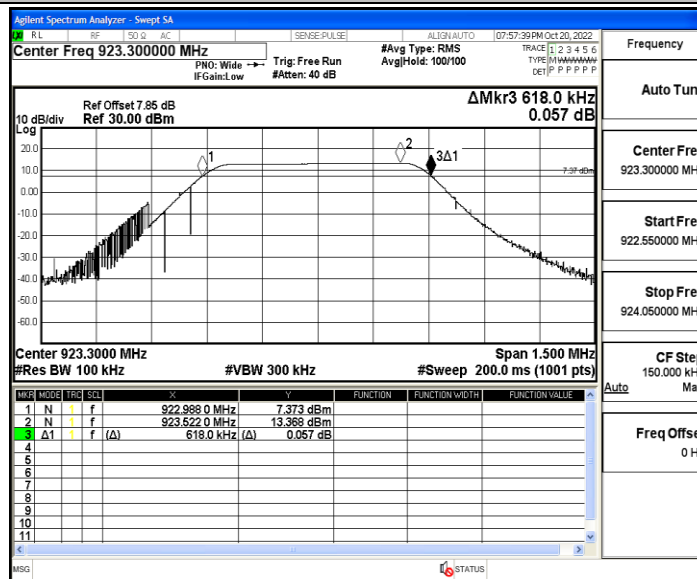
Appendix A: DTS Bandwidth

Test Result

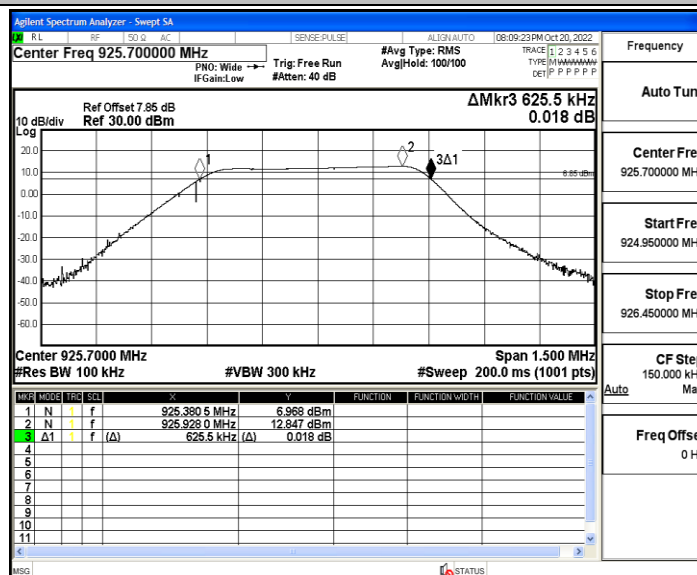
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LoRa-DTS	Ant1	923.3	0.618	922.988	923.606	0.5	PASS
		925.7	0.625	925.381	926.006	0.5	PASS
		927.5	0.636	927.167	927.803	0.5	PASS

Test Graphs

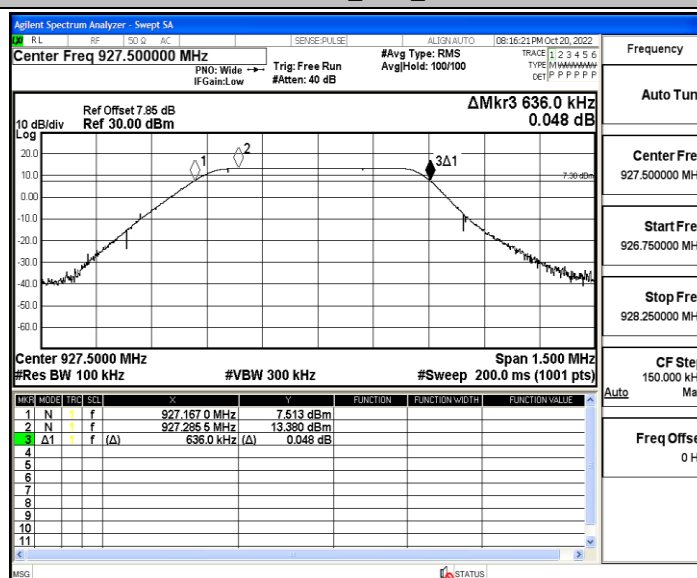
LoRa-DTS_Ant1_923.3



LoRa-DTS_Ant1_925.7



LoRa-DTS_Ant1_927.5



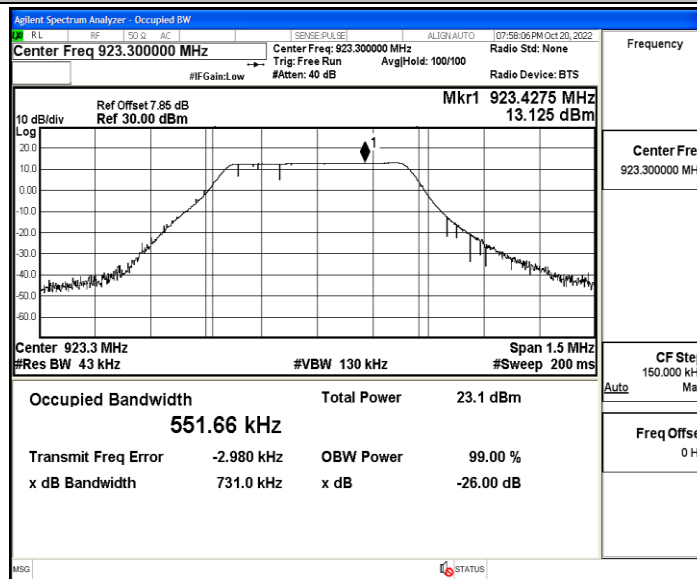
Appendix B: Occupied Channel Bandwidth

Test Result

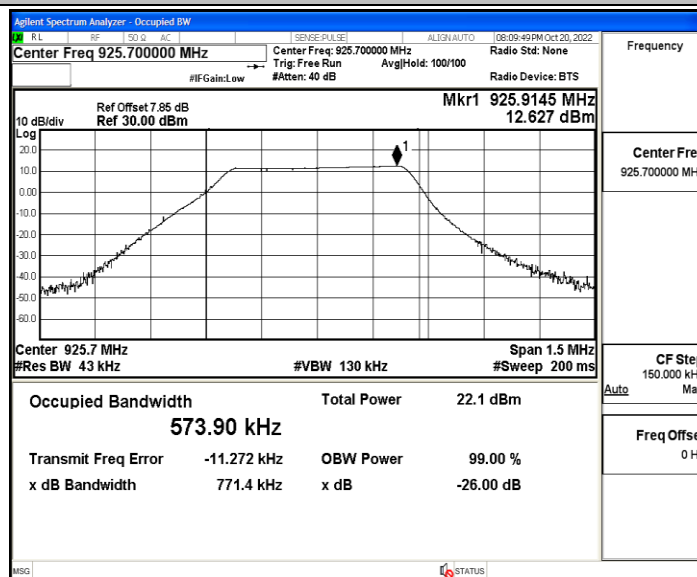
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
LoRa-DTS	Ant1	923.3	0.55166	923.0212	923.5729	---	---
		925.7	0.57390	925.4018	925.9757	---	---
		927.5	0.57647	927.1949	927.7714	---	---

Test Graphs

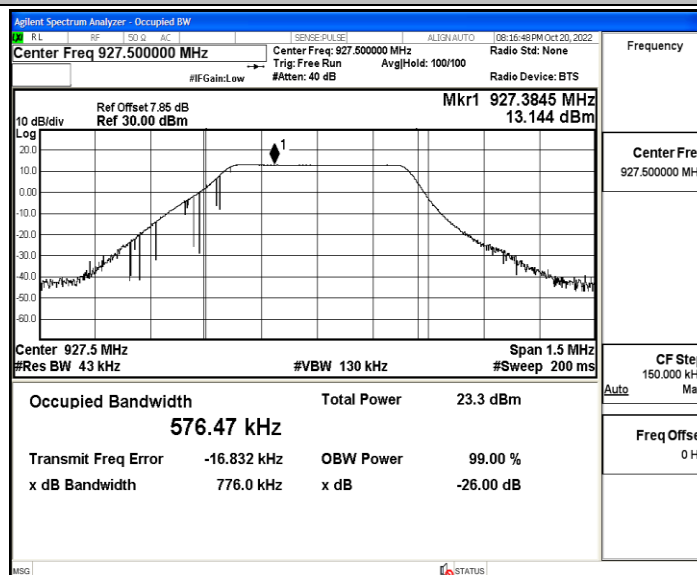
LoRa-DTS_Ant1_923.3



LoRa-DTS_Ant1_925.7



LoRa-DTS_Ant1_927.5



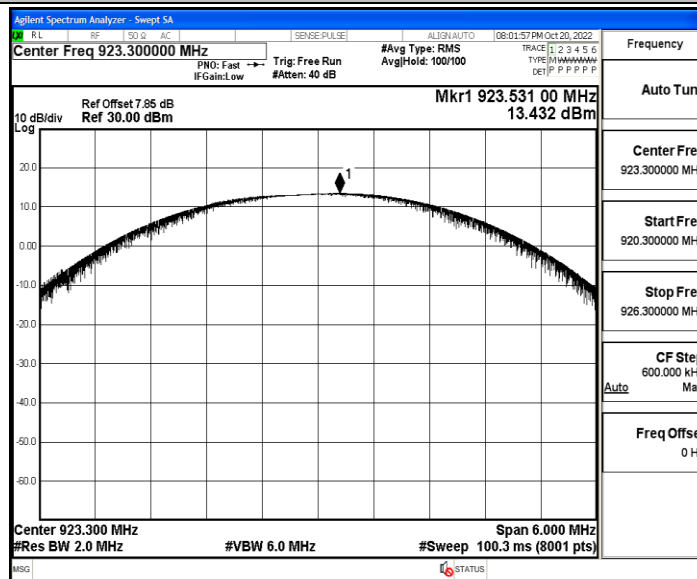
Appendix C: Maximum Peak conducted output power

Test Result

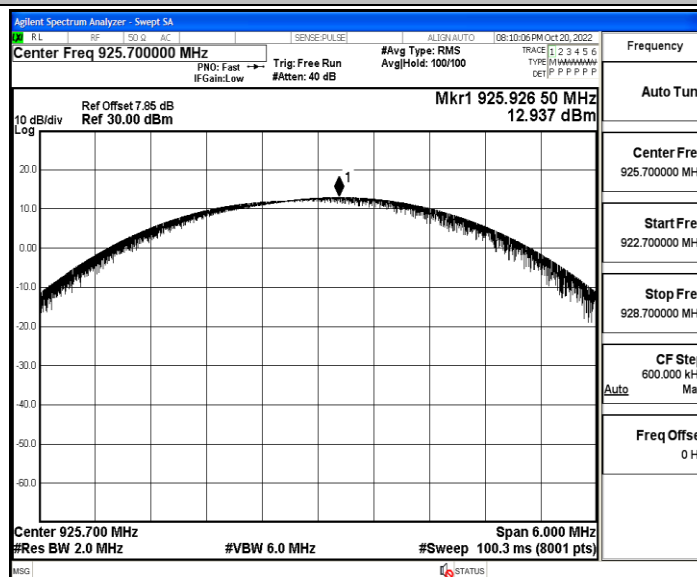
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
LoRa-DTS	Ant1	923.3	13.43	≤30	PASS
		925.7	12.94	≤30	PASS
		927.5	13.58	≤30	PASS

Test Graphs

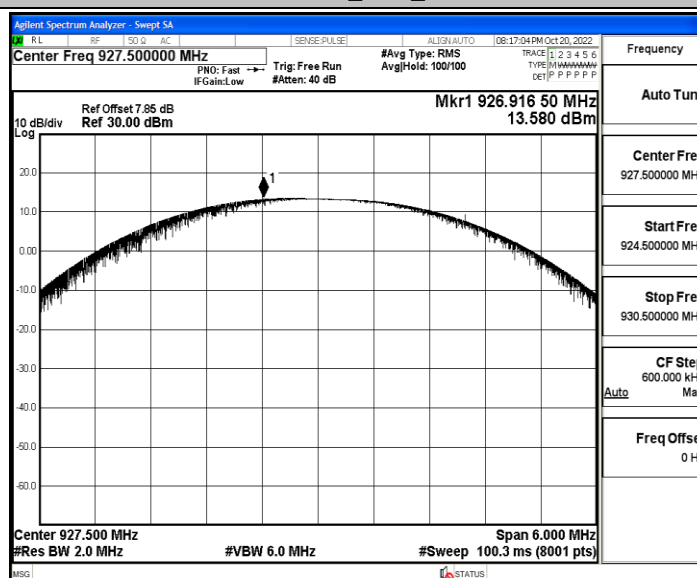
LoRa-DTS_Ant1_923.3



LoRa-DTS_Ant1_925.7



LoRa-DTS_Ant1_927.5



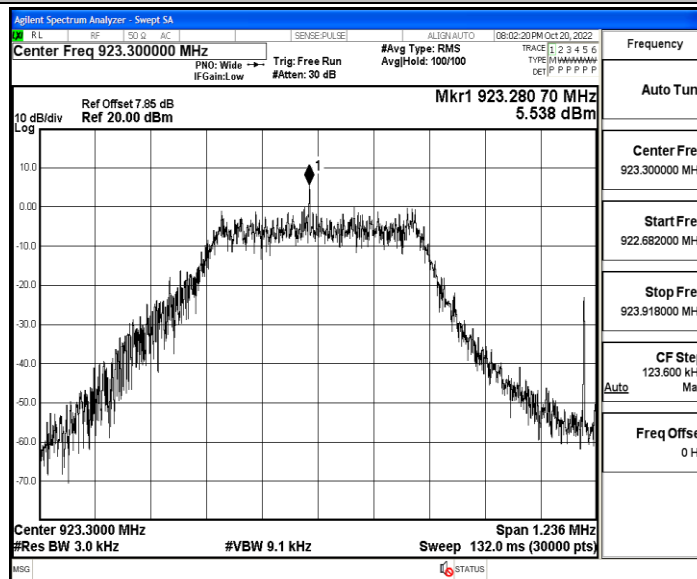
Appendix D: Maximum peak power spectral density

Test Result

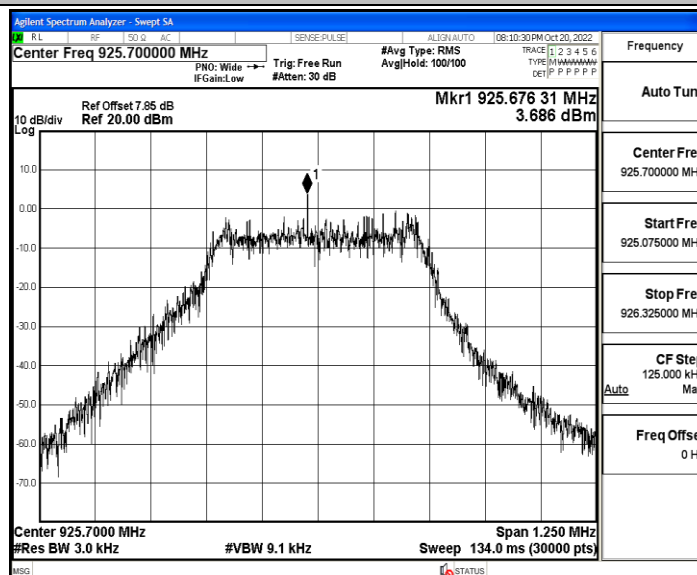
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
LoRa-DTS	Ant1	923.3	5.54	≤na	PASS
		925.7	3.69	≤na	PASS
		927.5	0.79	≤na	PASS

Test Graphs

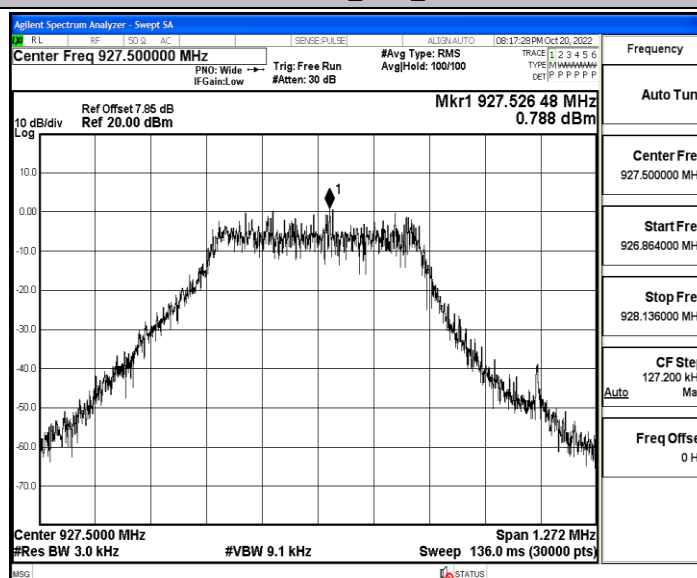
LoRa-DTS_Ant1_923.3



LoRa-DTS_Ant1_925.7

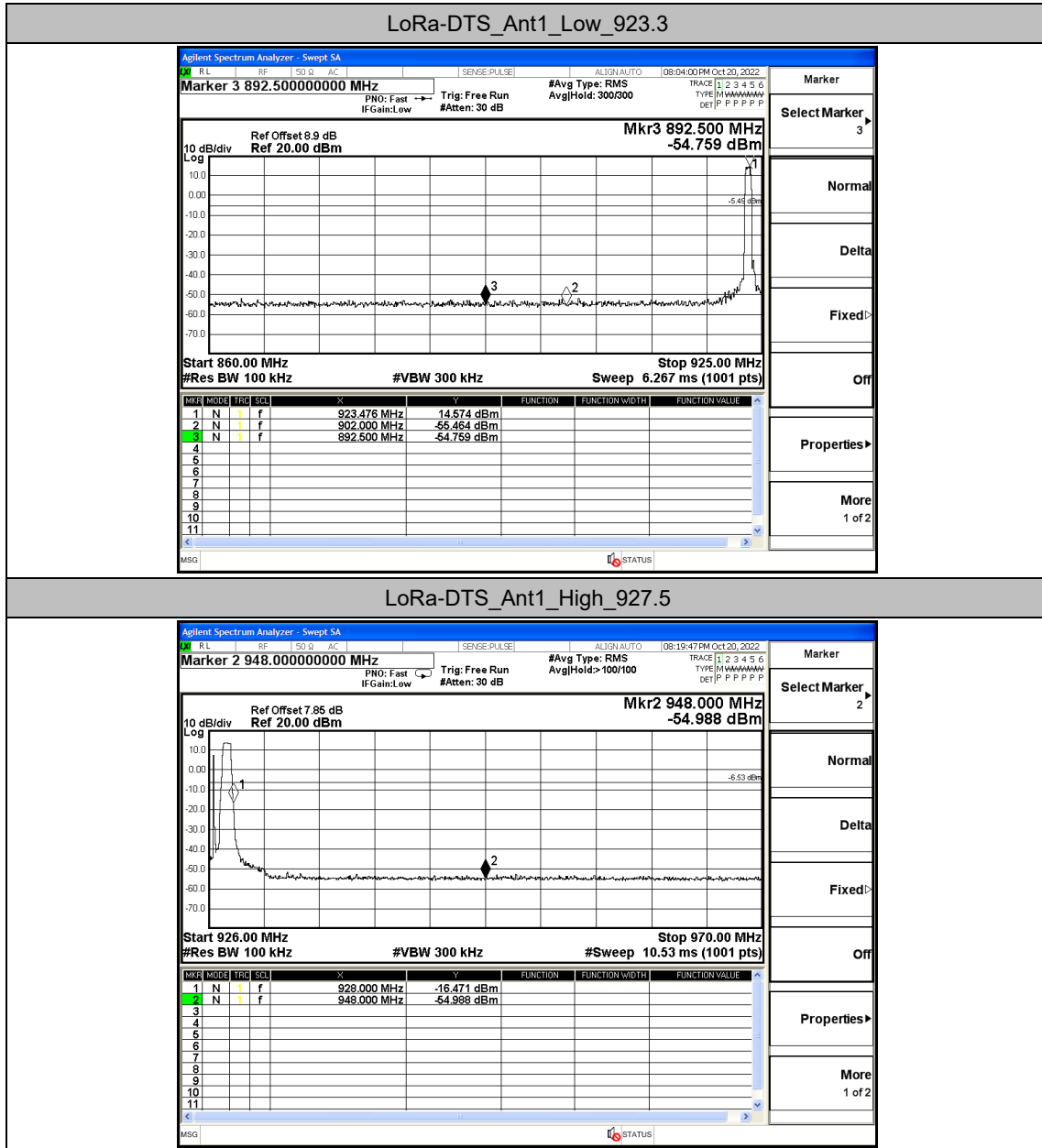


LoRa-DTS_Ant1_927.5



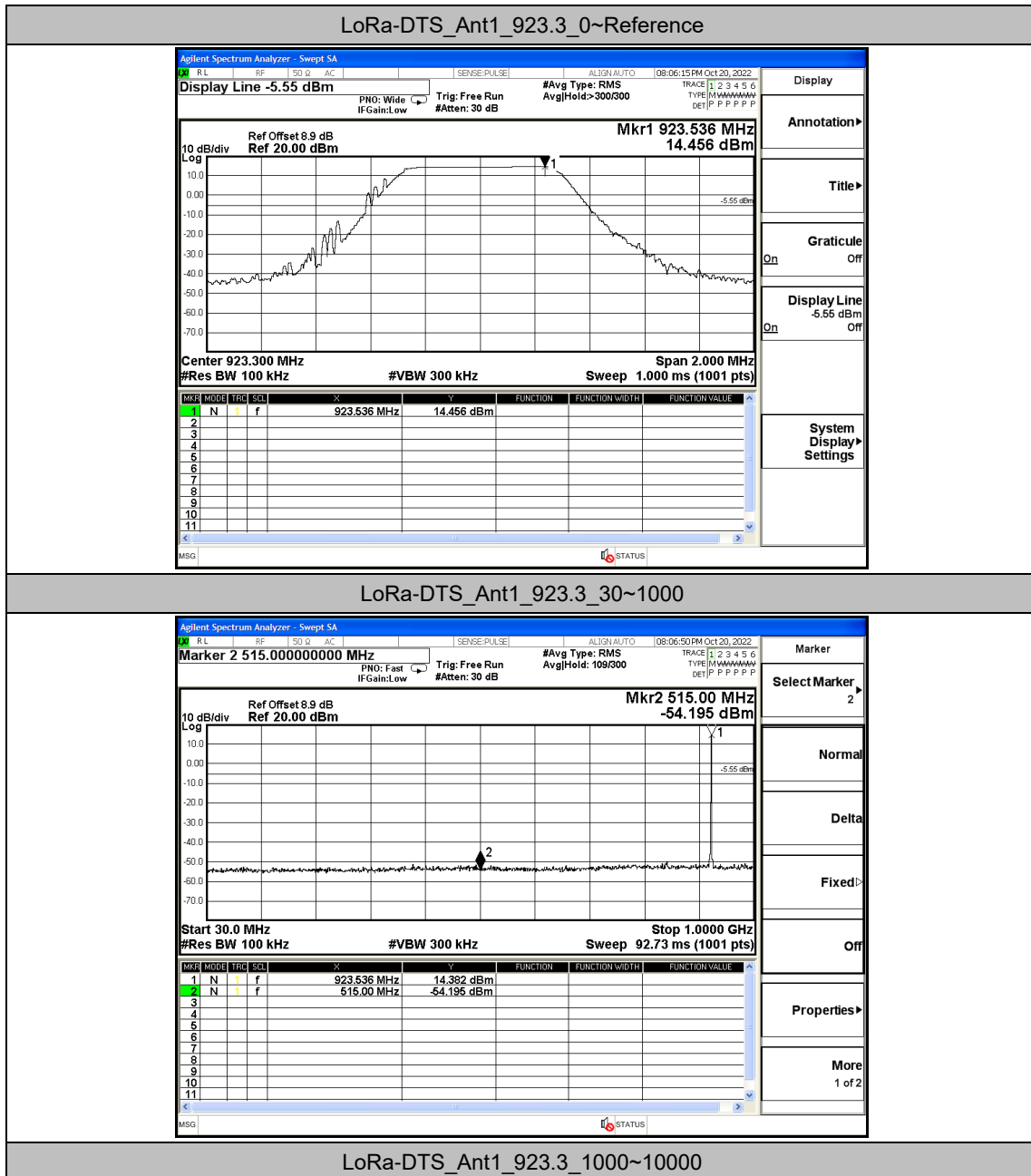
Appendix E: Band edge measurements

Test Graphs

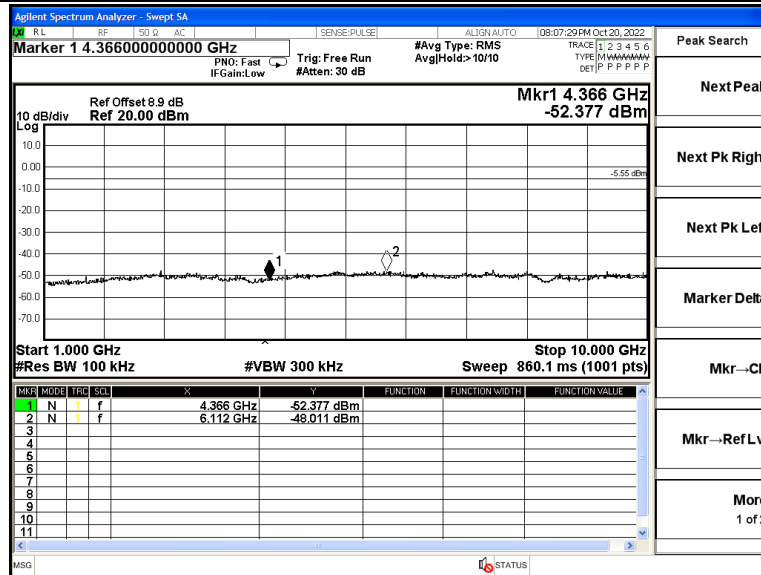


Appendix F: Conducted Spurious Emission

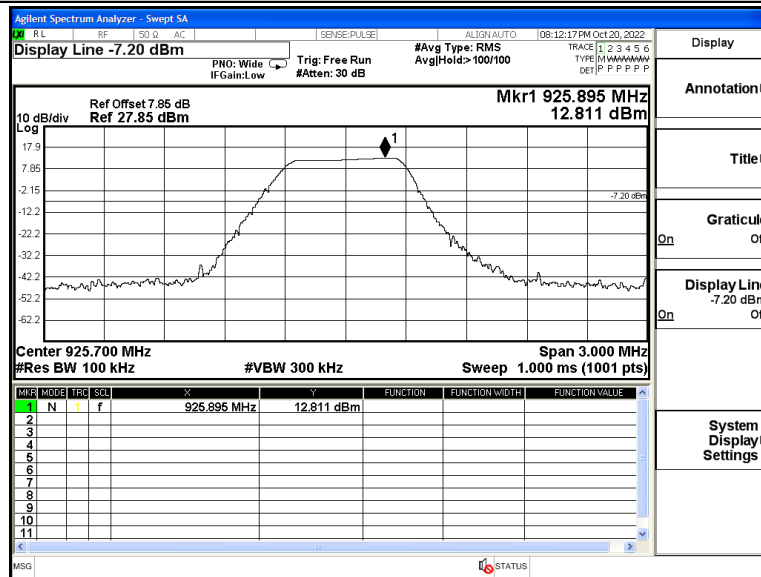
Test Graphs



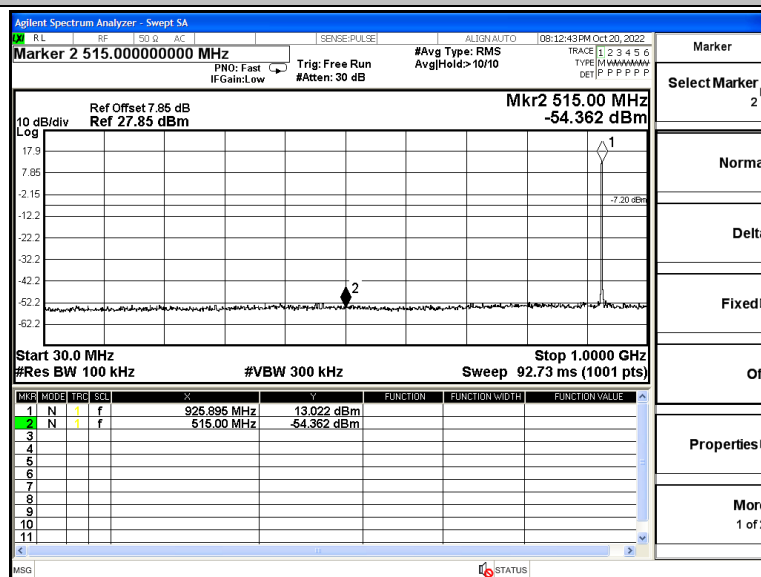
LoRa-DTS_Ant1_923.3_1000~10000



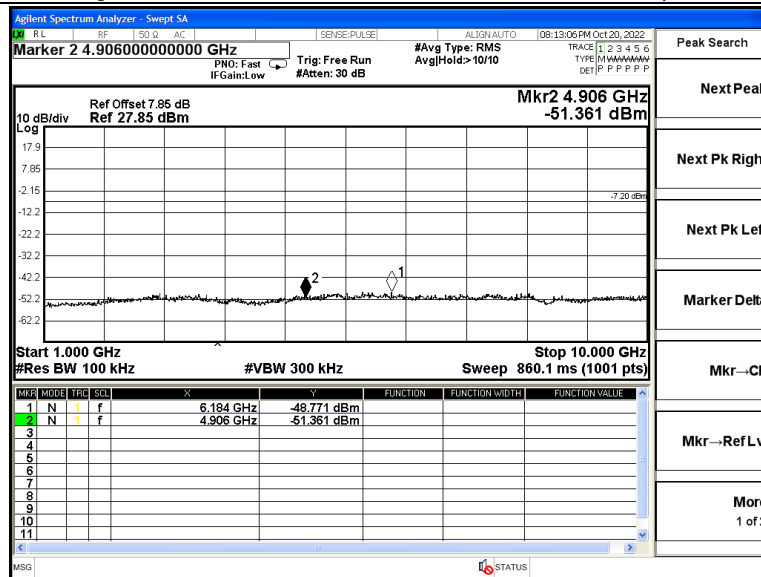
LoRa-DTS_Ant1_925.7_0~Reference



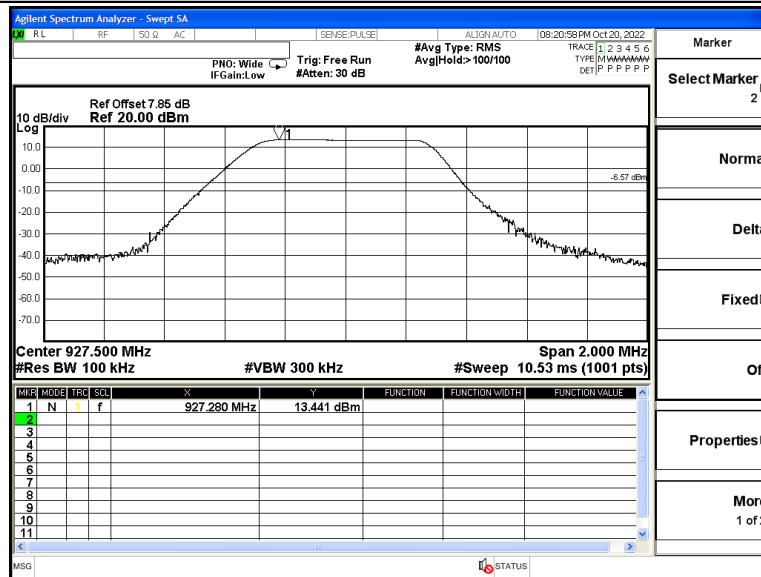
LoRa-DTS_Ant1_925.7_30~1000



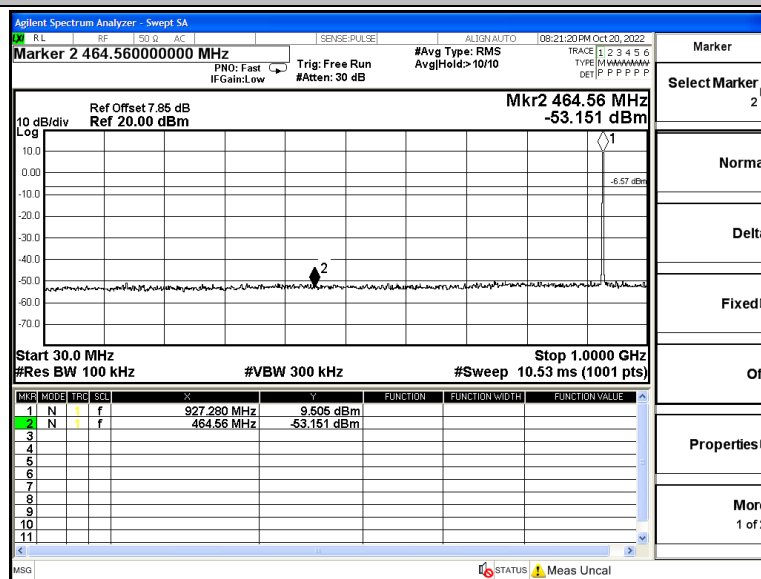
LoRa-DTS_Ant1_925.7_1000~26500



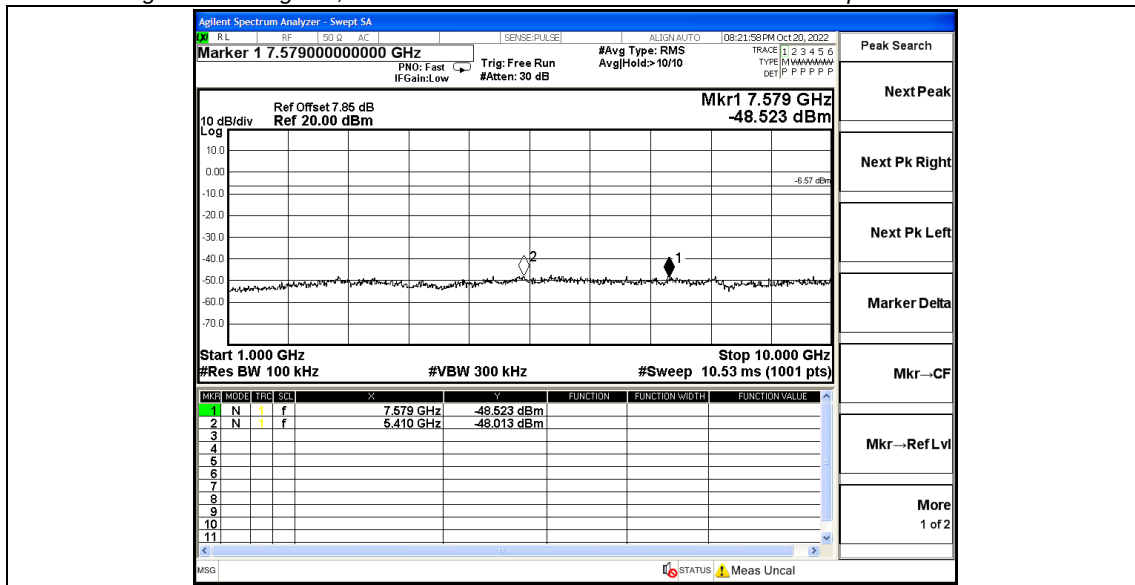
LoRa-DTS_Ant1_927.5_0~Reference



LoRa-DTS_Ant1_927.5_30~1000



LoRa-DTS_Ant1_927.5_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
LoRa-DTS	Ant1	923.3	100.00	100.00	100.00	0.01
		925.7	100.00	100.00	100.00	0.01
		927.5	100.00	100.00	100.00	0.01

Test Graphs

