

## RF Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: Granary Automatic Pet Feeder-WiFi Control 5L

Trade Mark: PETLIBRO

Test Model: PLAF103

FCC ID: 2A3DE-PLAF103

### Environmental Conditions

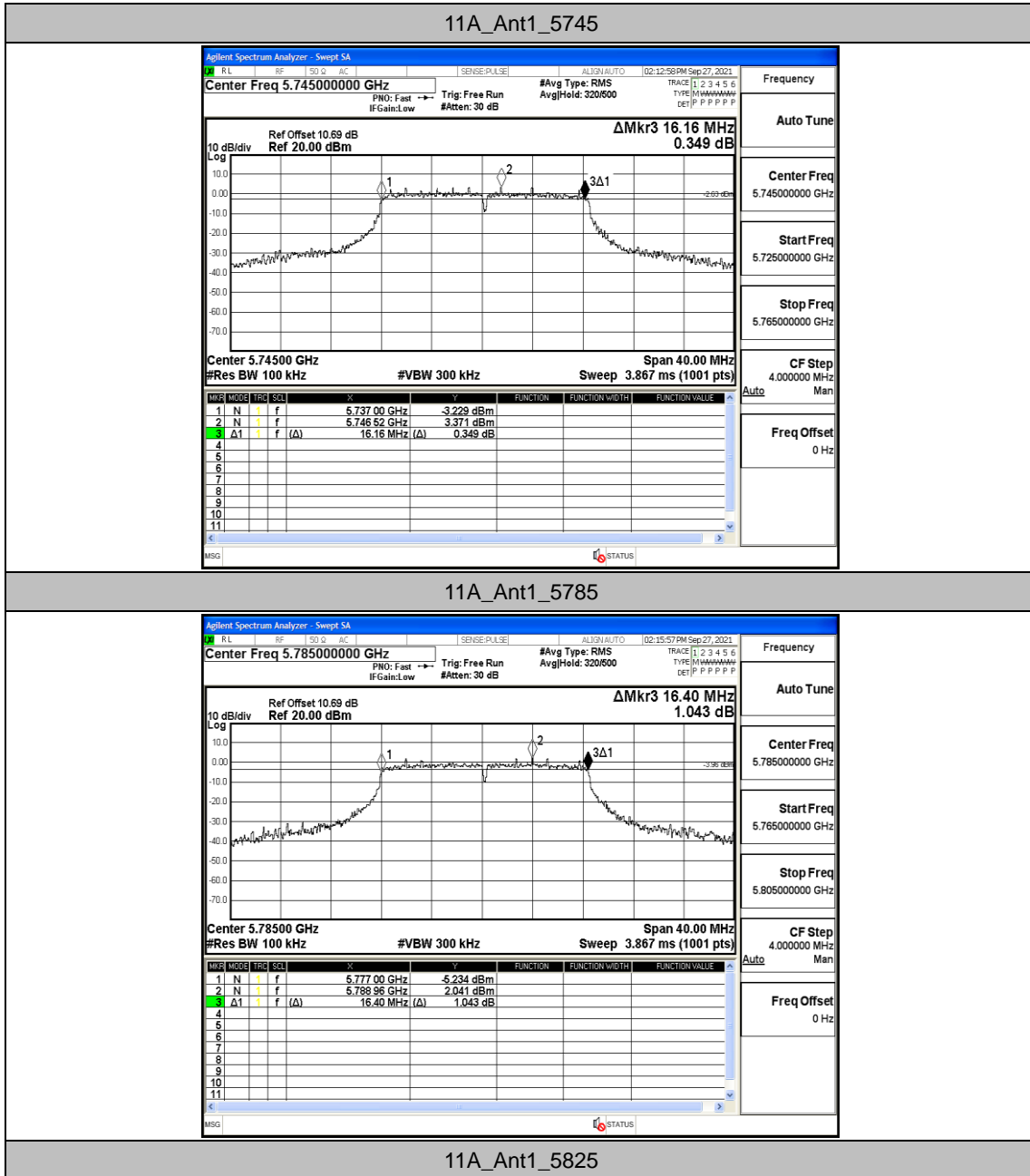
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

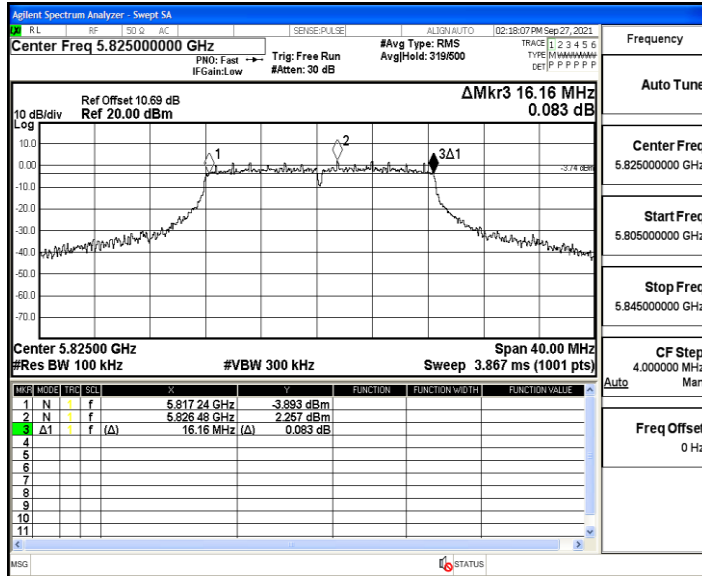
### Appendix A: Min emission bandwidth

#### Test Result

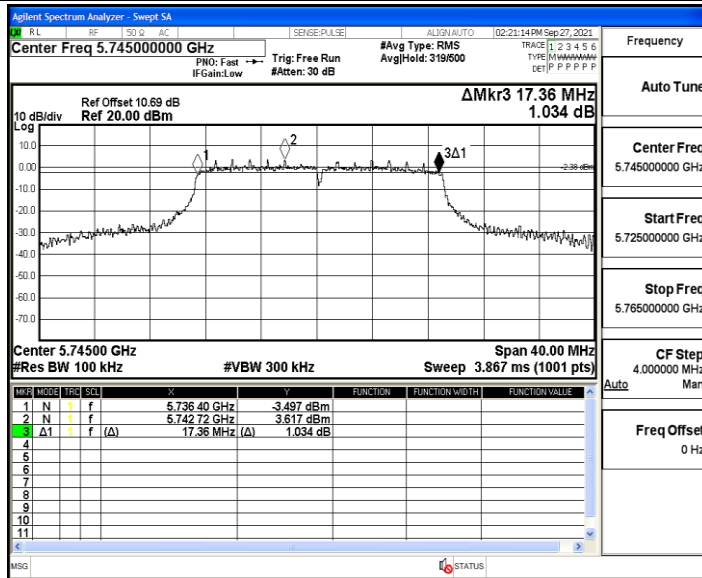
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.160	5737.000	5753.160	0.5	PASS
		5785	16.400	5777.000	5793.400	0.5	PASS
		5825	16.160	5817.240	5833.400	0.5	PASS
11N20SISO	Ant1	5745	17.360	5736.400	5753.760	0.5	PASS
		5785	16.760	5776.640	5793.400	0.5	PASS
		5825	17.120	5816.640	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.280	5737.560	5772.840	0.5	PASS
		5795	35.280	5777.560	5812.840	0.5	PASS

Test Graphs

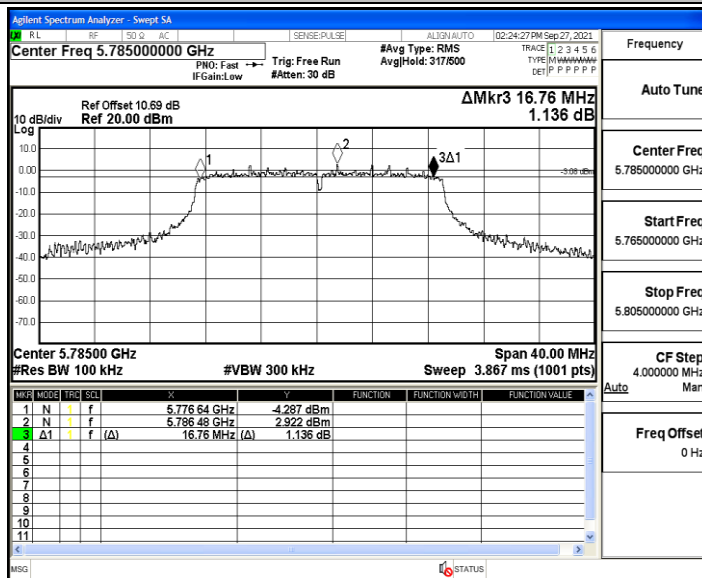




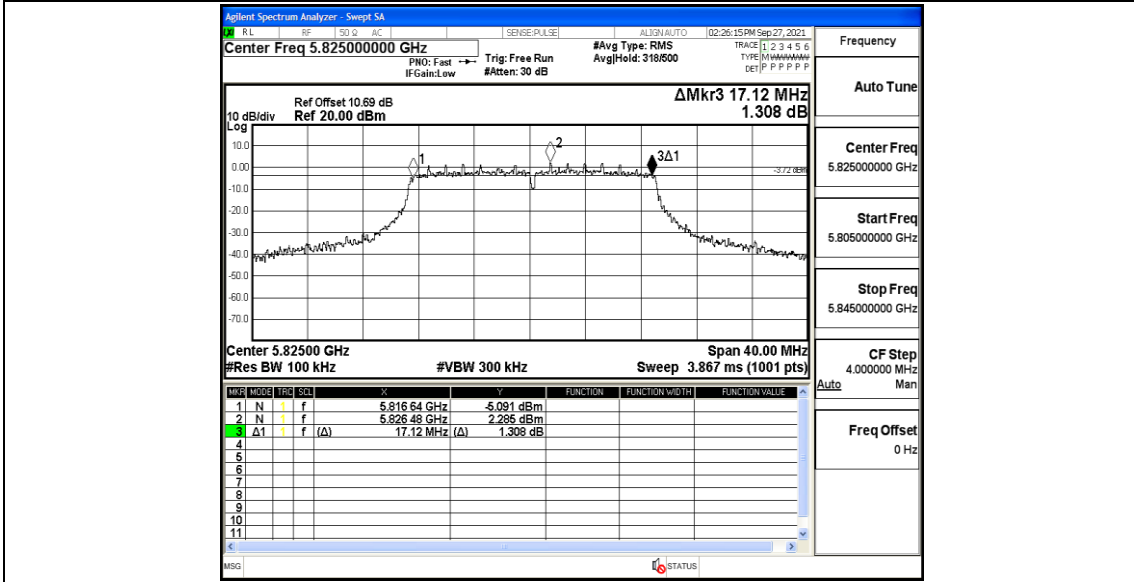
11N20SISO\_Ant1\_5745



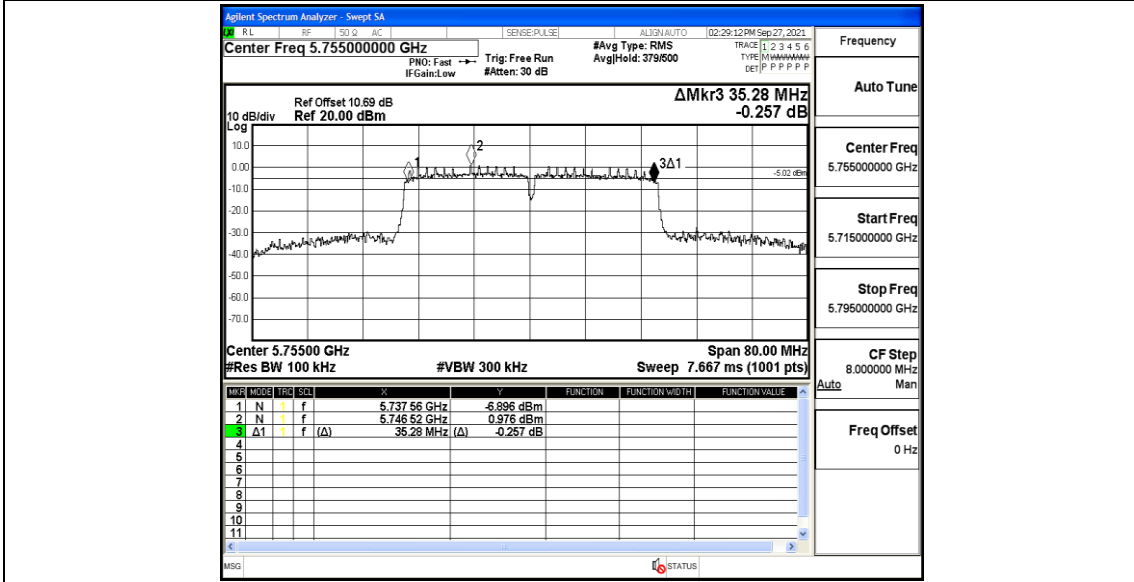
11N20SISO\_Ant1\_5785



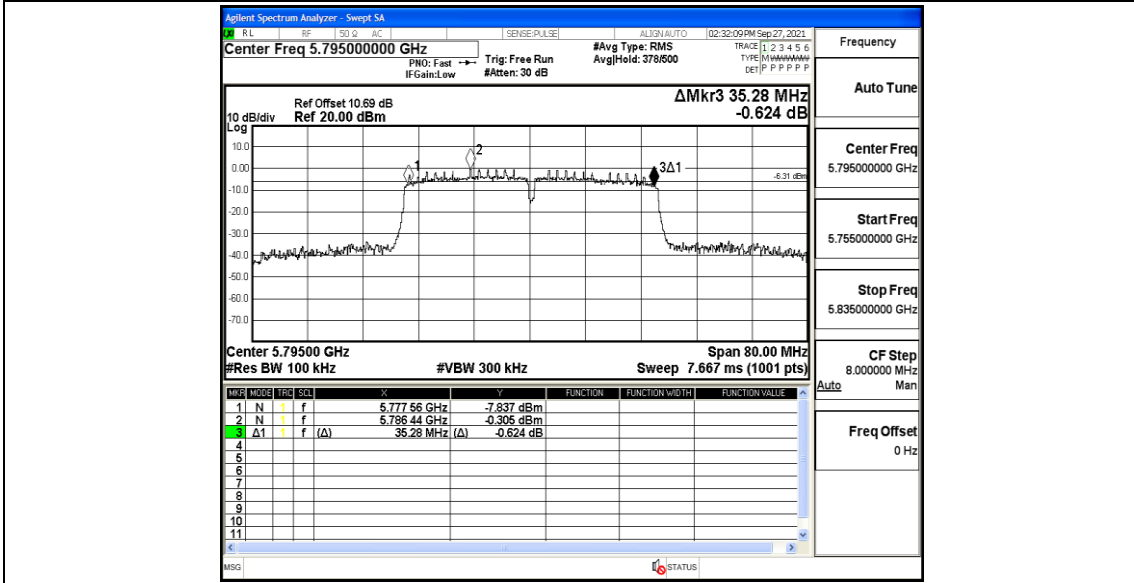
11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5755



11N40SISO\_Ant1\_5795



## Appendix B: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	14.72	≤30	PASS
		5785	13.66	≤30	PASS
		5825	13.26	≤30	PASS
11N20SISO	Ant1	5745	14.88	≤30	PASS
		5785	13.95	≤30	PASS
		5825	13.20	≤30	PASS
11N40SISO	Ant1	5755	14.52	≤30	PASS
		5795	13.43	≤30	PASS

Note: The Duty Cycle Factor is compensated in the test result.

## Appendix C: Maximum power spectral density

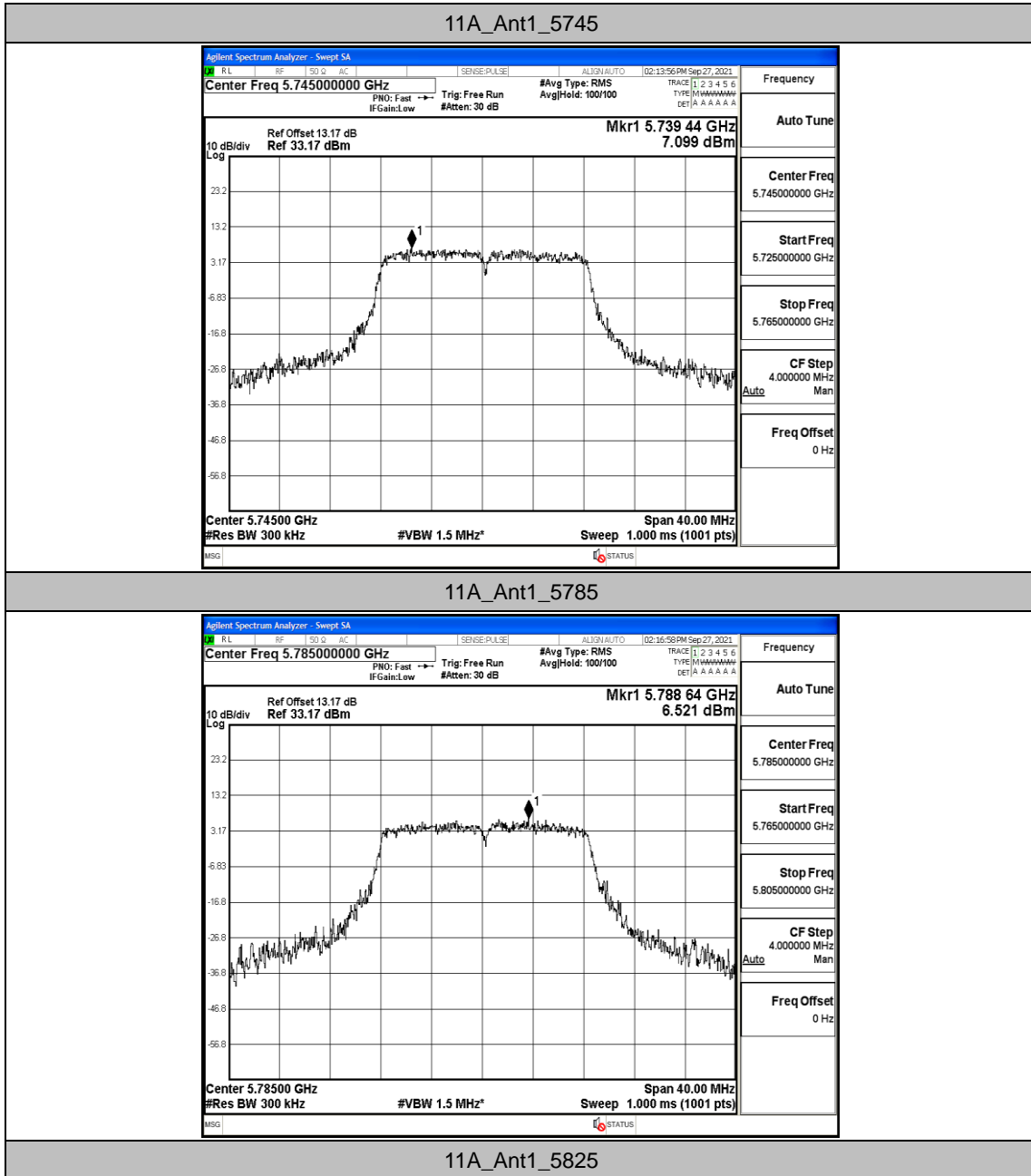
### Test Result

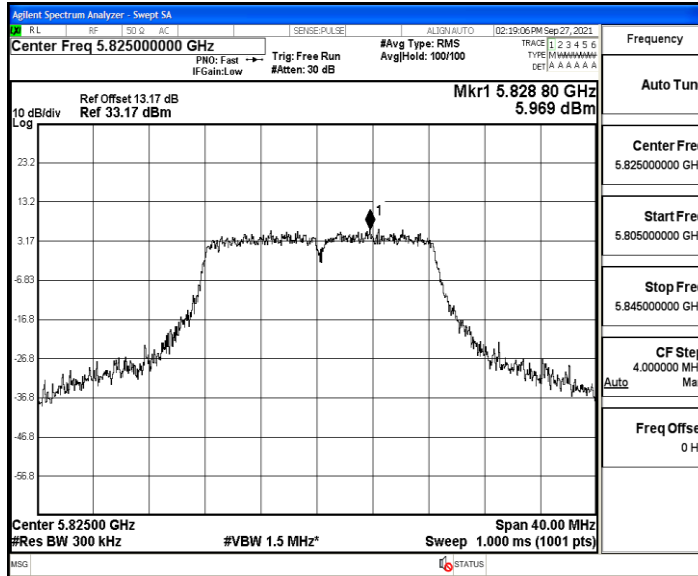
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	7.1	≤30	PASS
		5785	6.52	≤30	PASS
		5825	5.97	≤30	PASS
11N20SISO	Ant1	5745	7.61	≤30	PASS
		5785	7.47	≤30	PASS
		5825	5.7	≤30	PASS
11N40SISO	Ant1	5755	4.81	≤30	PASS
		5795	4.45	≤30	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

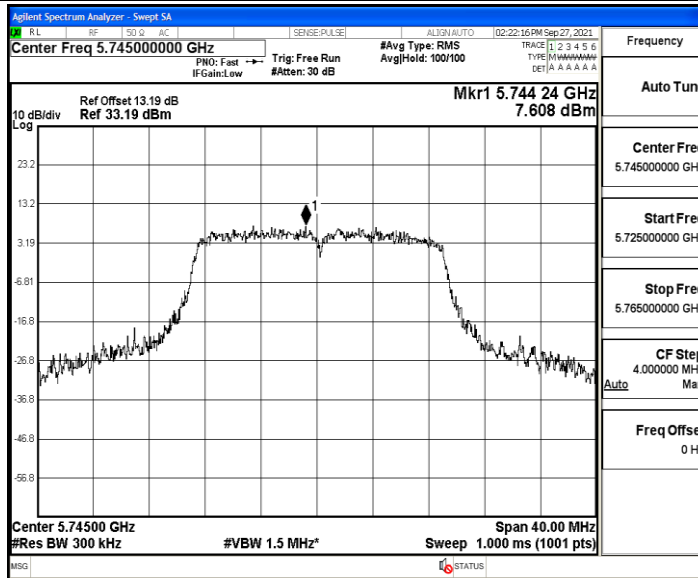
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

### Test Graphs

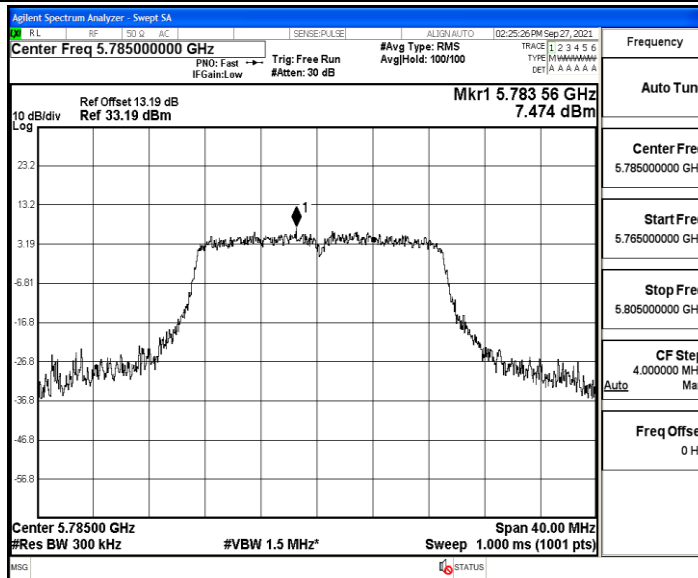




11N20SISO\_Ant1\_5745

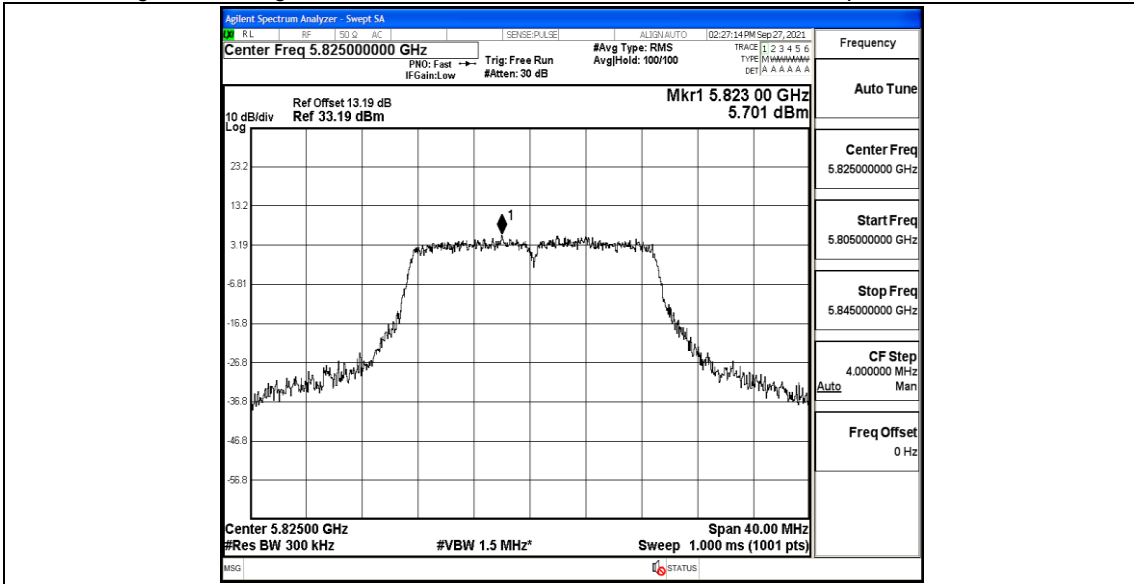


11N20SISO\_Ant1\_5785

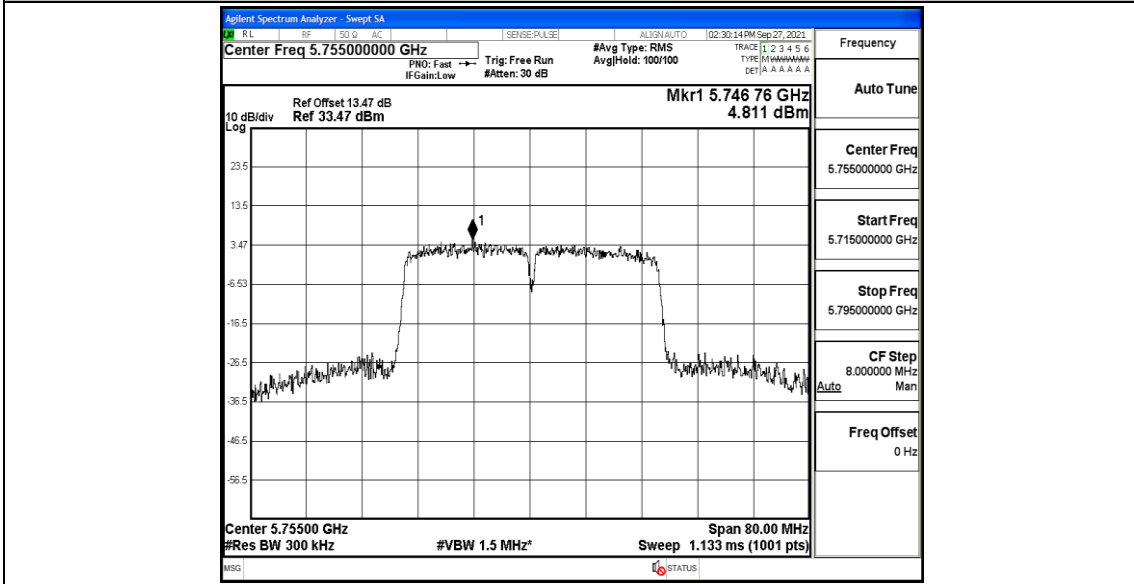


11N20SISO\_Ant1\_5825

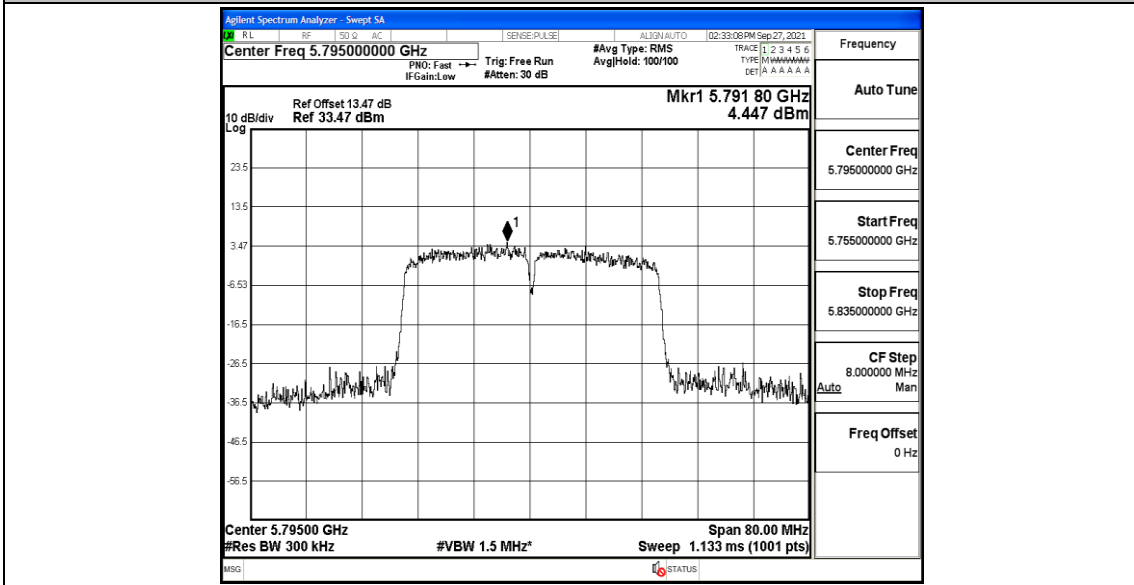




11N40SISO\_Ant1\_5755



11N40SISO\_Ant1\_5795

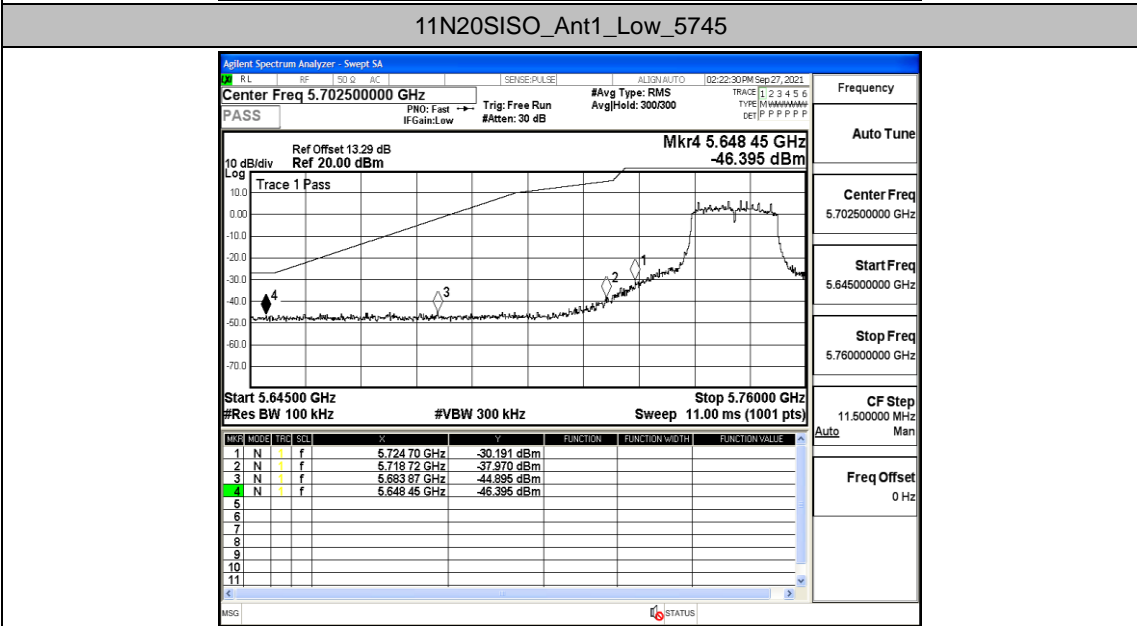
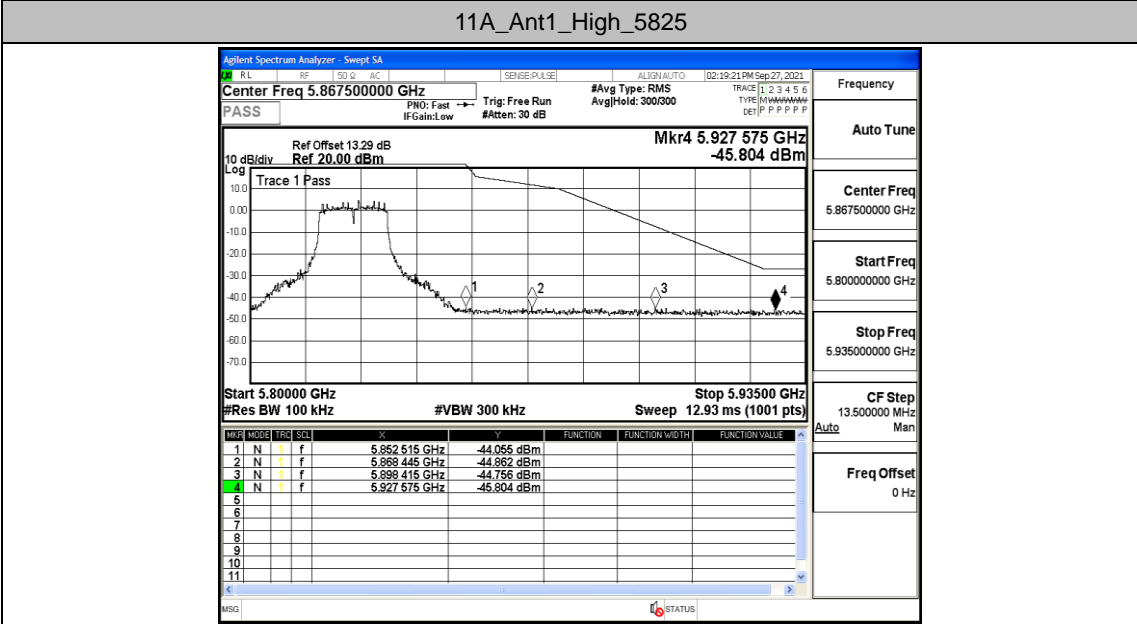
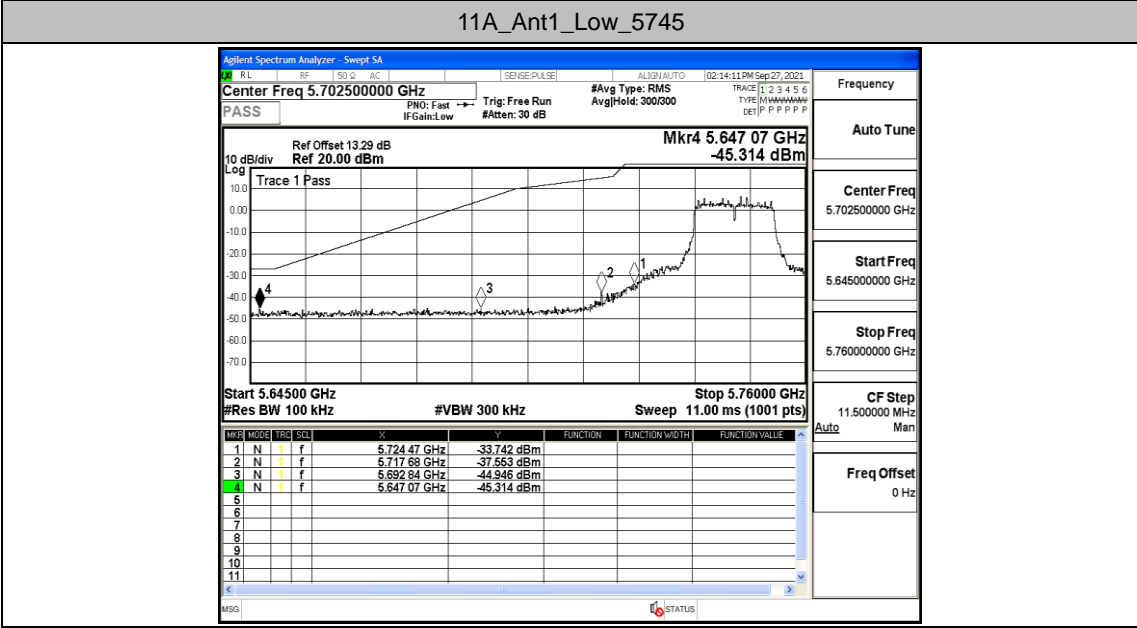


## Appendix D: Band edge measurements

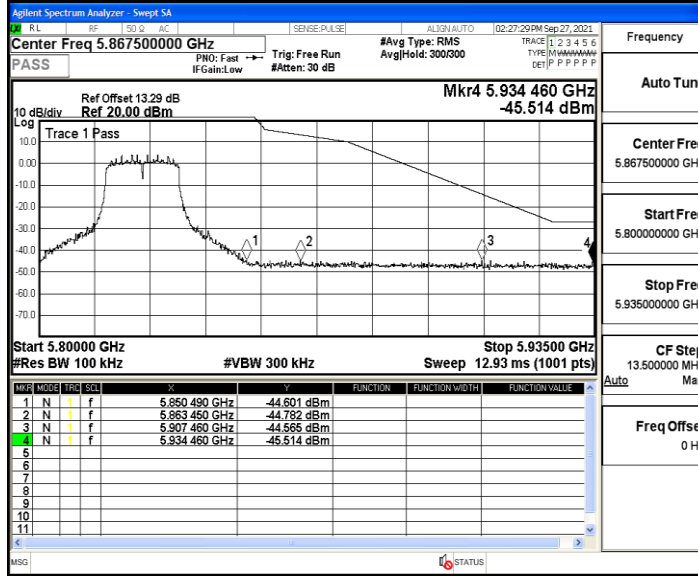
### Test Result

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-44.95	≤4.70	PASS
				5700~5720	-37.55	≤14.95	PASS
				5720~5725	-33.74	≤25.78	PASS
				5760~5650	-45.31	≤-27	PASS
		High	5825	5850~5855	-44.06	≤21.33	PASS
				5855~5875	-44.86	≤13.76	PASS
				5875~5925	-44.76	≤-9.67	PASS
				5925~5935	-45.8	≤-27	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-44.9	≤-1.94	PASS
				5700~5720	-37.97	≤15.24	PASS
				5720~5725	-30.19	≤26.30	PASS
				5760~5650	-46.4	≤-27	PASS
		High	5825	5850~5855	-44.6	≤16.72	PASS
				5855~5875	-44.78	≤12.37	PASS
				5875~5925	-44.57	≤-2.98	PASS
				5925~5935	-45.51	≤-27	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-43.83	≤4.36	PASS
				5700~5720	-32.57	≤15.05	PASS
				5720~5725	-29.63	≤21.28	PASS
				5780~5650	-46.39	≤-27	PASS
		High	5795	5850~5855	-45.3	≤26.19	PASS
				5855~5875	-44.11	≤12.30	PASS
				5875~5925	-44.95	≤-18.62	PASS
				5925~5935	-45.19	≤-27	PASS

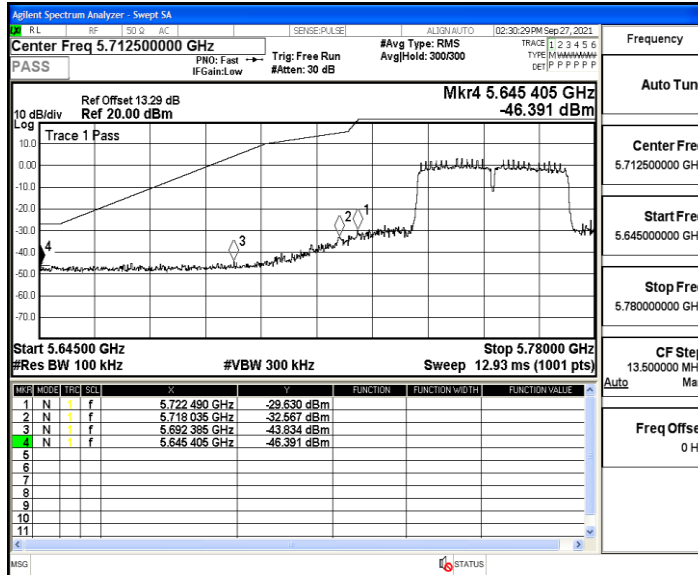
Test Graphs



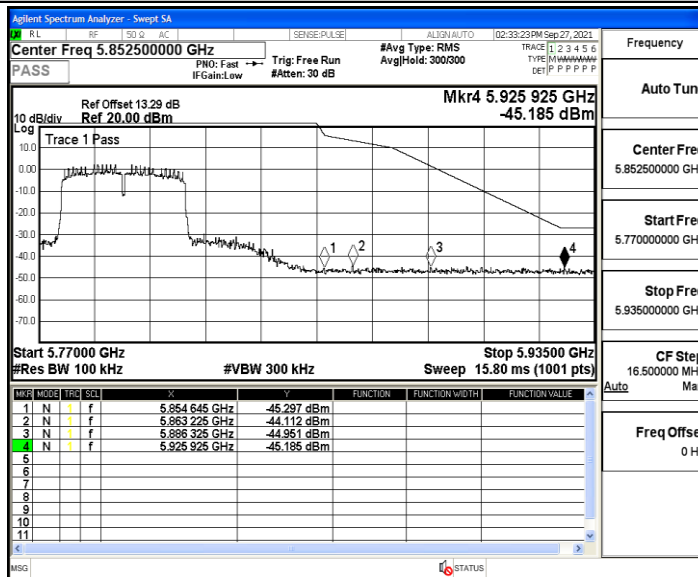
11N20SISO\_Ant1\_High\_5825



11N40SISO\_Ant1\_Low\_5755



11N40SISO\_Ant1\_High\_5795



## Appendix E: Frequency Stability

### Test Result

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.938380	5745 – 5825	PASS
5745	20	108	5745.026918	5745 – 5825	PASS
5745	50	120	5744.993320	5745 – 5825	PASS
5745	40	120	5744.957048	5745 – 5825	PASS
5745	30	120	5744.912813	5745 – 5825	PASS
5745	20	120	5745.001952	5745 – 5825	PASS
5745	10	120	5745.053590	5745 – 5825	PASS
5745	0	120	5745.047993	5745 – 5825	PASS
5745	-10	120	5745.066582	5745 – 5825	PASS
5745	-20	120	5745.098503	5745 – 5825	PASS
5745	-30	120	5745.016466	5745 – 5825	PASS

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.994754	5745 – 5825	PASS
5785	20	108	5784.911210	5745 – 5825	PASS
5785	50	120	5785.068258	5745 – 5825	PASS
5785	40	120	5784.984691	5745 – 5825	PASS
5785	30	120	5785.028876	5745 – 5825	PASS
5785	20	120	5785.094018	5745 – 5825	PASS
5785	10	120	5784.919245	5745 – 5825	PASS
5785	0	120	5785.001926	5745 – 5825	PASS
5785	-10	120	5784.979359	5745 – 5825	PASS
5785	-20	120	5784.976831	5745 – 5825	PASS
5785	-30	120	5784.996645	5745 – 5825	PASS

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.972304	5745 – 5825	PASS
5825	20	108	5824.951350	5745 – 5825	PASS
5825	50	120	5824.916525	5745 – 5825	PASS
5825	40	120	5825.007478	5745 – 5825	PASS
5825	30	120	5824.942631	5745 – 5825	PASS
5825	20	120	5825.081260	5745 – 5825	PASS
5825	10	120	5824.919346	5745 – 5825	PASS
5825	0	120	5825.023059	5745 – 5825	PASS
5825	-10	120	5825.058147	5745 – 5825	PASS
5825	-20	120	5824.929297	5745 – 5825	PASS
5825	-30	120	5825.039111	5745 – 5825	PASS

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5754.947359	5745 – 5825	PASS
5755	20	108	5755.042911	5745 – 5825	PASS
5755	50	120	5755.013792	5745 – 5825	PASS
5755	40	120	5754.972858	5745 – 5825	PASS
5755	30	120	5754.966479	5745 – 5825	PASS
5755	20	120	5755.034408	5745 – 5825	PASS
5755	10	120	5755.035846	5745 – 5825	PASS
5755	0	120	5754.943458	5745 – 5825	PASS
5755	-10	120	5754.949045	5745 – 5825	PASS
5755	-20	120	5754.908513	5745 – 5825	PASS
5755	-30	120	5754.960660	5745 – 5825	PASS

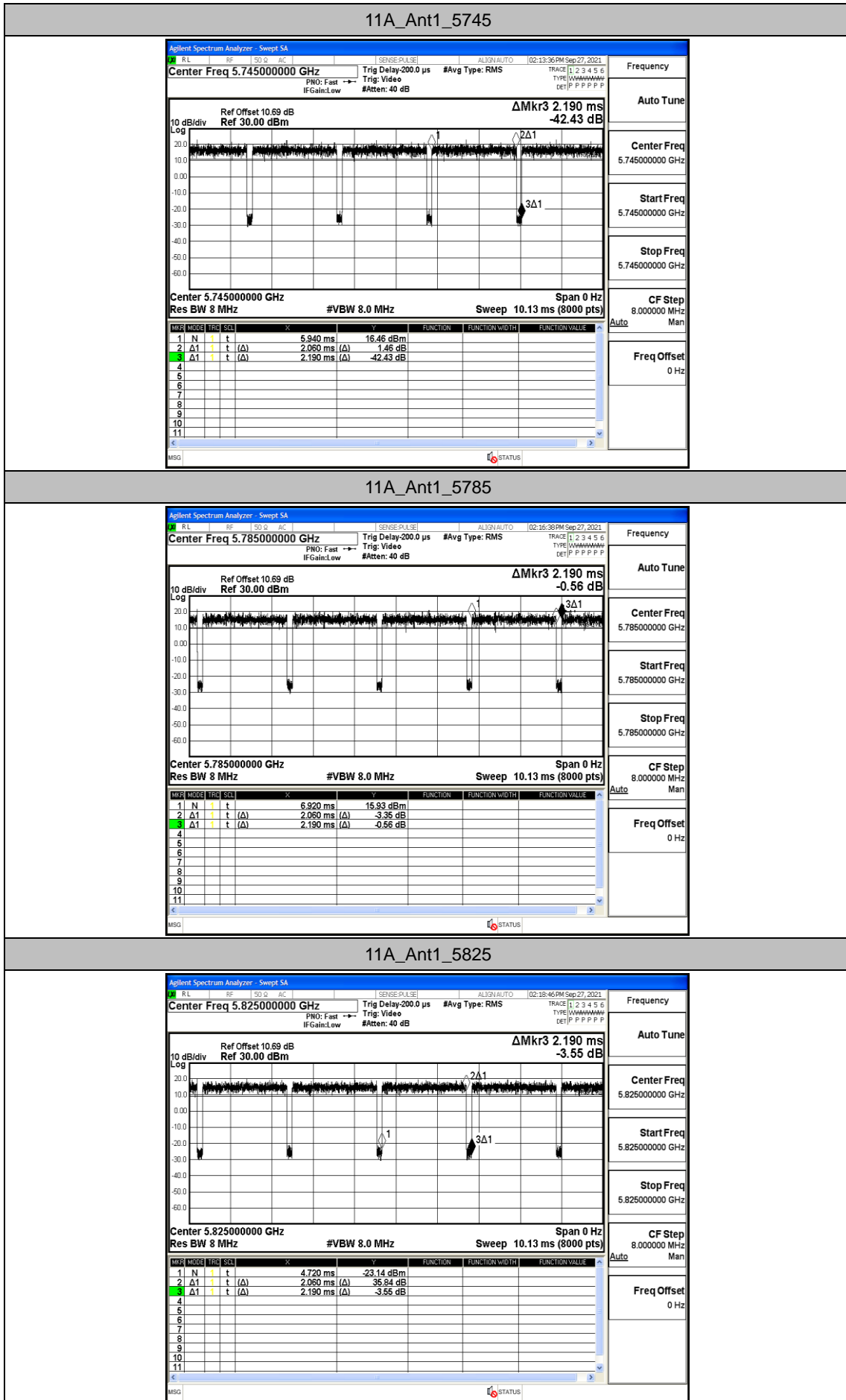
Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.942993	5745 – 5825	PASS
5795	20	108	5795.044696	5745 – 5825	PASS
5795	50	120	5795.007900	5745 – 5825	PASS
5795	40	120	5795.064917	5745 – 5825	PASS
5795	30	120	5795.092322	5745 – 5825	PASS
5795	20	120	5795.088806	5745 – 5825	PASS
5795	10	120	5795.053023	5745 – 5825	PASS
5795	0	120	5794.992795	5745 – 5825	PASS
5795	-10	120	5794.934329	5745 – 5825	PASS
5795	-20	120	5794.982047	5745 – 5825	PASS
5795	-30	120	5794.960571	5745 – 5825	PASS

## Appendix F: Duty Cycle

### Test Result

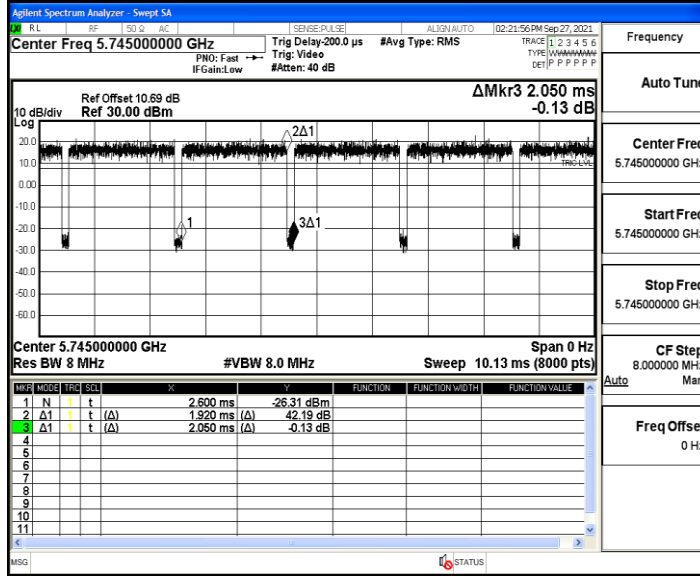
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.06	2.19	94.06
		5785	2.06	2.19	94.06
		5825	2.06	2.19	94.06
11N20SISO	Ant1	5745	1.92	2.05	93.66
		5785	1.92	2.05	93.66
		5825	1.92	2.05	93.66
11N40SISO	Ant1	5755	0.94	1.07	87.85
		5795	0.94	1.07	87.85

Test Graphs

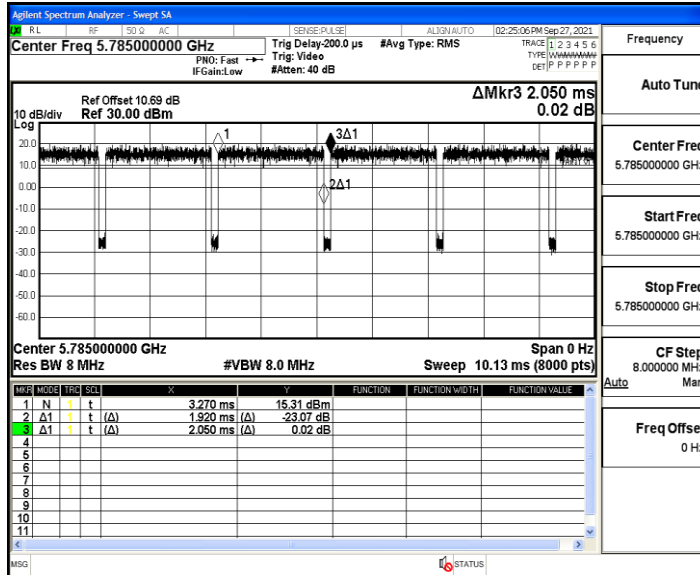




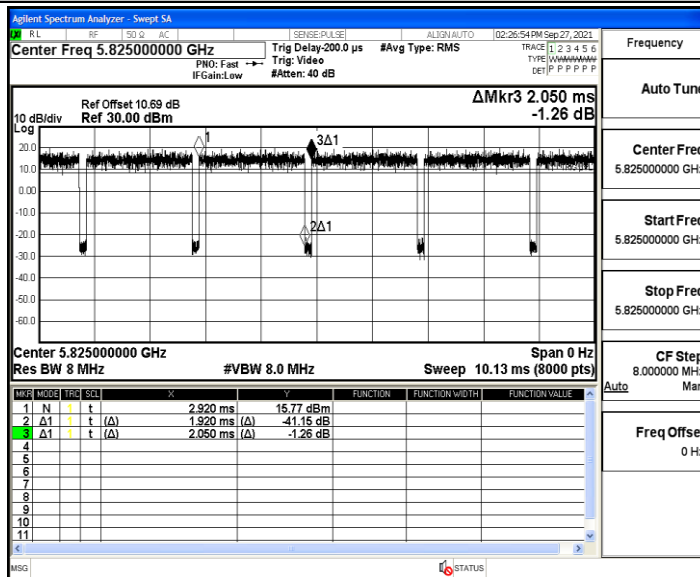
11N20SISO\_Ant1\_5745



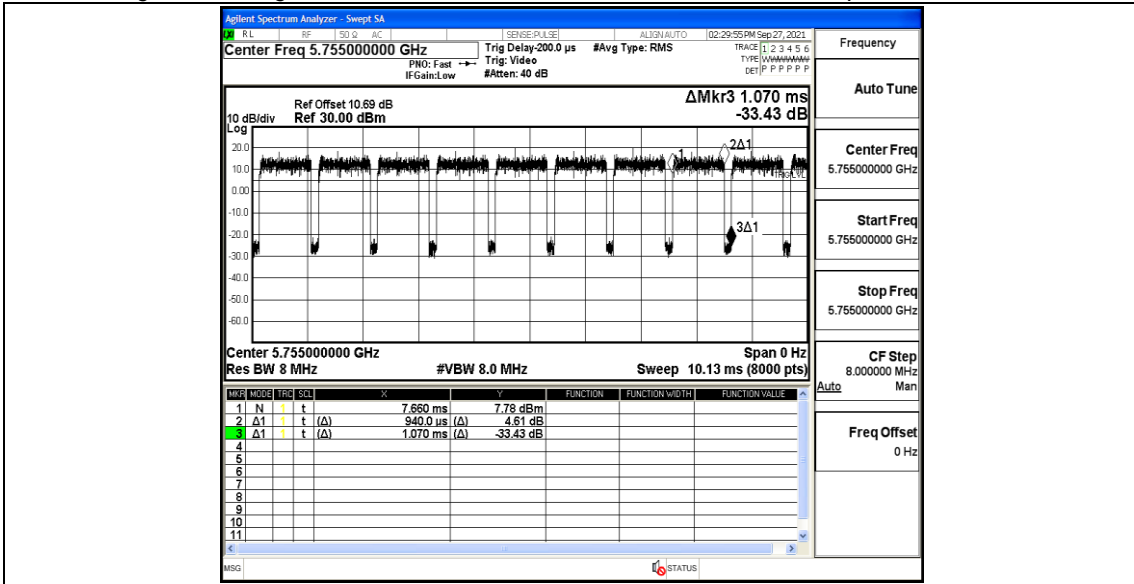
11N20SISO\_Ant1\_5785



11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5755



11N40SISO\_Ant1\_5795

