



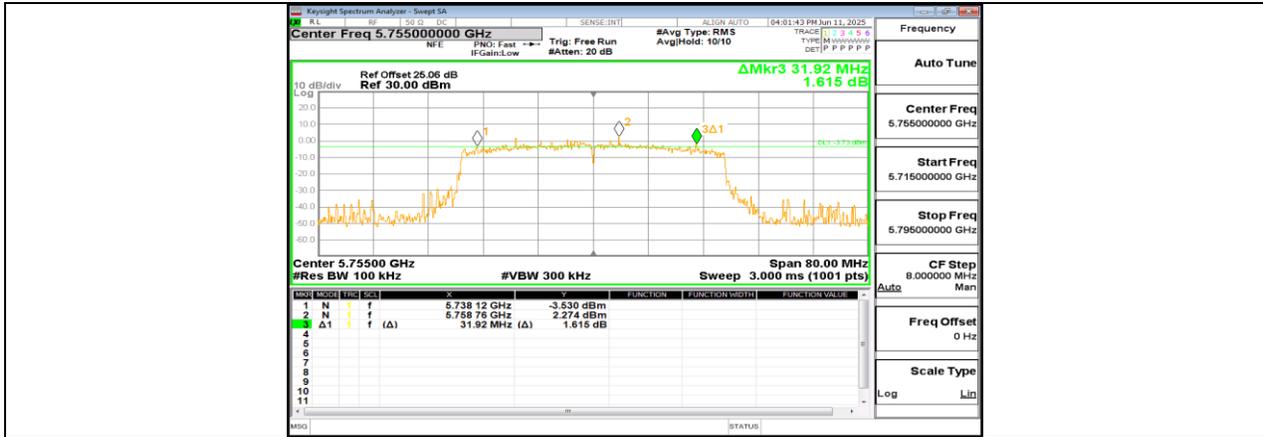
11AX20MIMO\_Ant0\_5745



11AX20MIMO\_Ant0\_5785



11AX20MIMO\_Ant0\_5825



11AX40MIMO\_Ant0\_5755



11AX40MIMO\_Ant0\_5795



11AX80MIMO\_Ant0\_5775

## 11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

### 11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	Limit [dBm]	Verdict
11A	Ant0	5745	20.21	≤30.00	PASS
	Ant1	5745	20.41	≤30.00	PASS
	Ant0	5785	20.08	≤30.00	PASS
	Ant1	5785	20.43	≤30.00	PASS
	Ant0	5825	20.30	≤30.00	PASS
	Ant1	5825	20.07	≤30.00	PASS
11N20MIMO	Ant0	5745	20.30	≤30.00	PASS
	Ant1	5745	19.79	≤30.00	PASS
	total	5745	23.06	≤30.00	PASS
	Ant0	5785	20.58	≤30.00	PASS
	Ant1	5785	20.72	≤30.00	PASS
	total	5785	23.66	≤30.00	PASS
	Ant0	5825	20.90	≤30.00	PASS
	Ant1	5825	20.70	≤30.00	PASS
	total	5825	23.81	≤30.00	PASS
11N40MIMO	Ant0	5755	16.51	≤30.00	PASS
	Ant1	5755	16.58	≤30.00	PASS
	total	5755	19.56	≤30.00	PASS
	Ant0	5795	18.57	≤30.00	PASS
	Ant1	5795	18.42	≤30.00	PASS
	total	5795	21.51	≤30.00	PASS
11AC80MIMO	Ant0	5775	14.20	≤30.00	PASS
	Ant1	5775	14.76	≤30.00	PASS
	total	5775	17.50	≤30.00	PASS
11AX20MIMO	Ant0	5745	19.03	≤30.00	PASS
	Ant1	5745	20.03	≤30.00	PASS
	total	5745	22.57	≤30.00	PASS
	Ant0	5785	18.89	≤30.00	PASS
	Ant1	5785	21.29	≤30.00	PASS
	total	5785	23.26	≤30.00	PASS
	Ant0	5825	19.05	≤30.00	PASS
	Ant1	5825	19.78	≤30.00	PASS
	total	5825	22.44	≤30.00	PASS
11AX40MIMO	Ant0	5755	15.36	≤30.00	PASS
	Ant1	5755	17.62	≤30.00	PASS
	total	5755	19.65	≤30.00	PASS
	Ant0	5795	17.27	≤30.00	PASS
	Ant1	5795	19.48	≤30.00	PASS
	total	5795	21.52	≤30.00	PASS
11AX80MIMO	Ant0	5775	12.95	≤30.00	PASS
	Ant1	5775	14.67	≤30.00	PASS
	total	5775	16.90	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

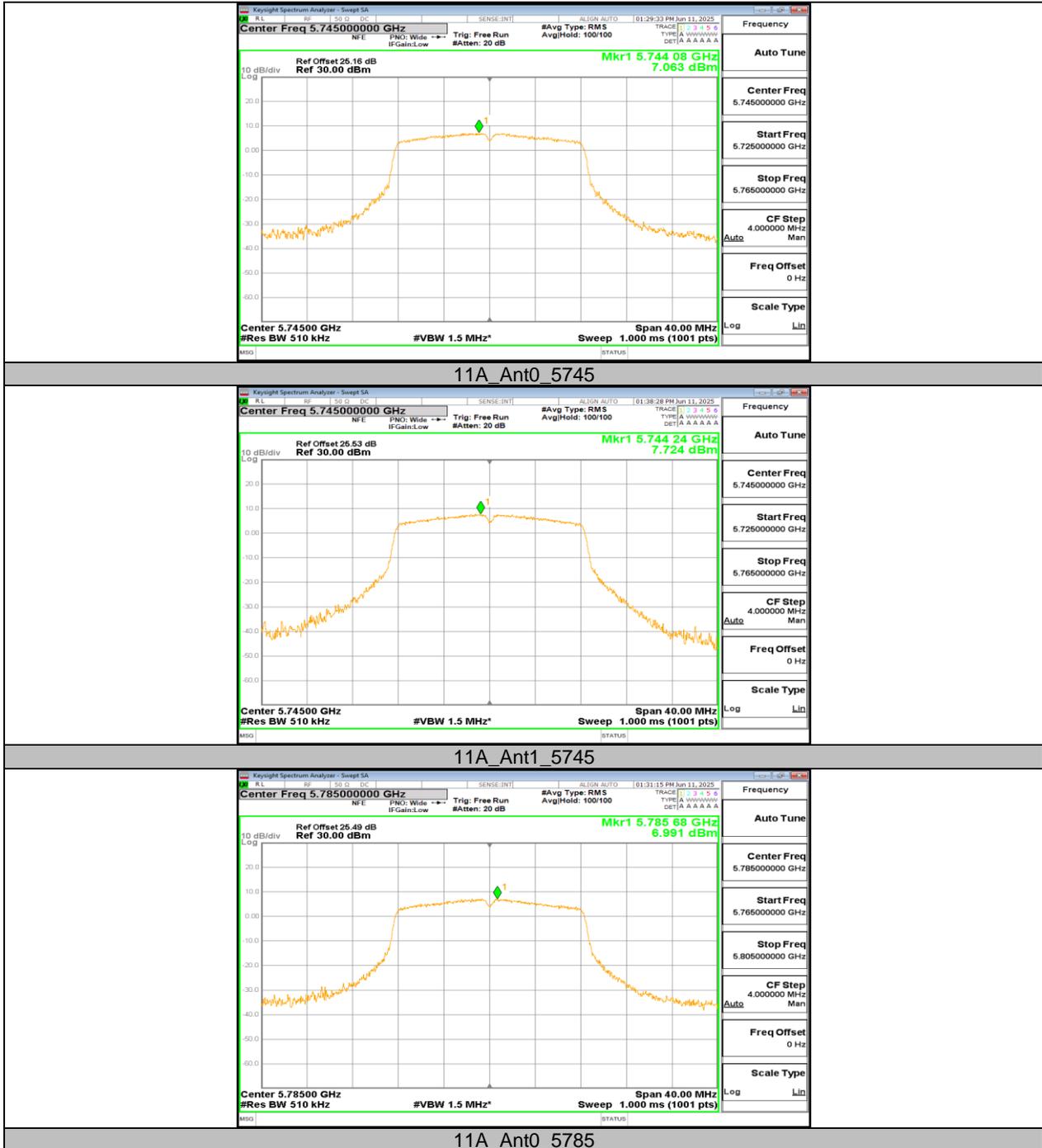
## 11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

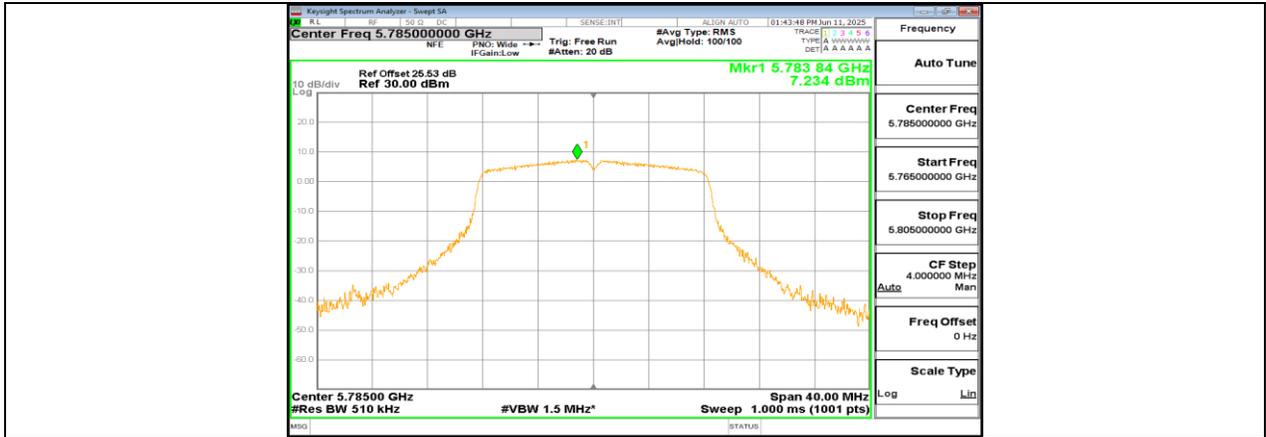
### 11.5.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm/500kHz]	Limit [dBm/500kHz]	EIRP [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant0	5745	7.06	≤30.00	11.26	---	PASS
	Ant1	5745	7.72	≤30.00	12.22	---	PASS
	Ant0	5785	6.99	≤30.00	11.19	---	PASS
	Ant1	5785	7.23	≤30.00	11.73	---	PASS
	Ant0	5825	7.24	≤30.00	11.44	---	PASS
	Ant1	5825	7.39	≤30.00	11.89	---	PASS
11N20MIMO	Ant0	5745	6.95	≤30.00	11.15	---	PASS
	Ant1	5745	6.80	≤30.00	11.30	---	PASS
	total	5745	9.89	≤28.49	14.24	---	PASS
	Ant0	5785	7.55	≤30.00	11.75	---	PASS
	Ant1	5785	7.77	≤30.00	12.27	---	PASS
	total	5785	10.67	≤28.49	15.03	---	PASS
	Ant0	5825	7.72	≤30.00	11.92	---	PASS
	Ant1	5825	7.74	≤30.00	12.24	---	PASS
11N40MIMO	total	5825	10.74	≤28.49	15.09	---	PASS
	Ant0	5755	0.01	≤30.00	4.21	---	PASS
	Ant1	5755	0.16	≤30.00	4.66	---	PASS
	total	5755	3.10	≤28.49	7.45	---	PASS
	Ant0	5795	2.44	≤30.00	6.64	---	PASS
	Ant1	5795	2.18	≤30.00	6.68	---	PASS
11AC80MIMO	total	5795	5.32	≤28.49	9.67	---	PASS
	Ant0	5775	-5.27	≤30.00	-1.07	---	PASS
	Ant1	5775	-3.60	≤30.00	0.90	---	PASS
11AX20MIMO	total	5775	-1.34	≤28.49	3.04	---	PASS
	Ant0	5745	5.70	≤30.00	10.20	---	PASS
	Ant1	5745	6.75	≤30.00	11.25	---	PASS
	total	5745	9.27	≤28.49	13.77	---	PASS
	Ant0	5785	6.08	≤30.00	10.28	---	PASS
	Ant1	5785	7.78	≤30.00	12.28	---	PASS
	total	5785	10.02	≤28.49	14.40	---	PASS
	Ant0	5825	6.15	≤30.00	10.65	---	PASS
	Ant1	5825	7.04	≤30.00	11.54	---	PASS
11AX40MIMO	total	5825	9.63	≤28.49	14.13	---	PASS
	Ant0	5755	-0.48	≤30.00	3.72	---	PASS
	Ant1	5755	1.74	≤30.00	6.24	---	PASS
	total	5755	3.78	≤28.49	8.17	---	PASS
	Ant0	5795	0.88	≤30.00	5.08	---	PASS
	Ant1	5795	3.56	≤30.00	8.06	---	PASS
11AX80MIMO	total	5795	5.43	≤28.49	9.83	---	PASS
	Ant0	5775	-5.43	≤30.00	-1.23	---	PASS
	Ant1	5775	-3.09	≤30.00	1.41	---	PASS
total	5775	-1.09	≤28.49	3.30	---	PASS	

Note: 1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

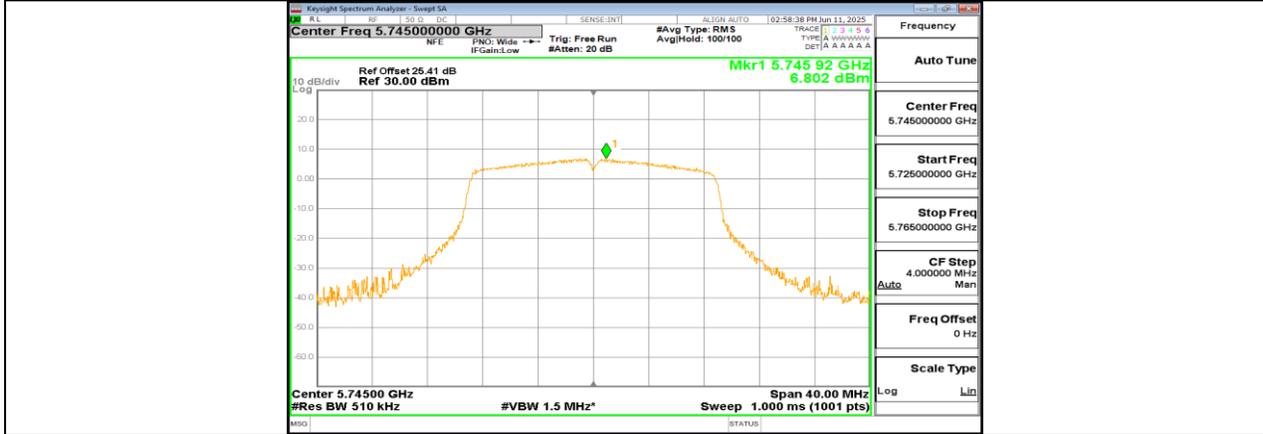
11.5.2. Test Graphs



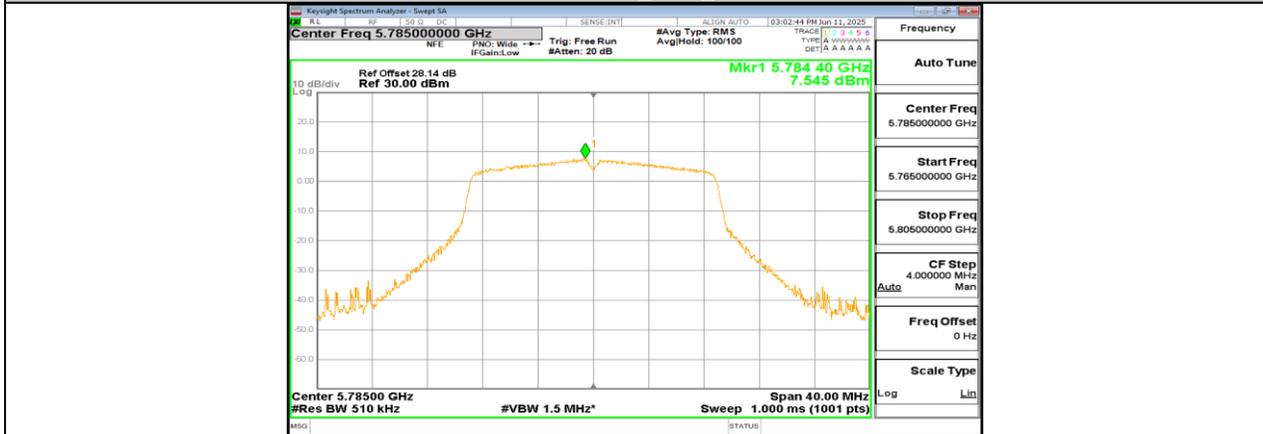




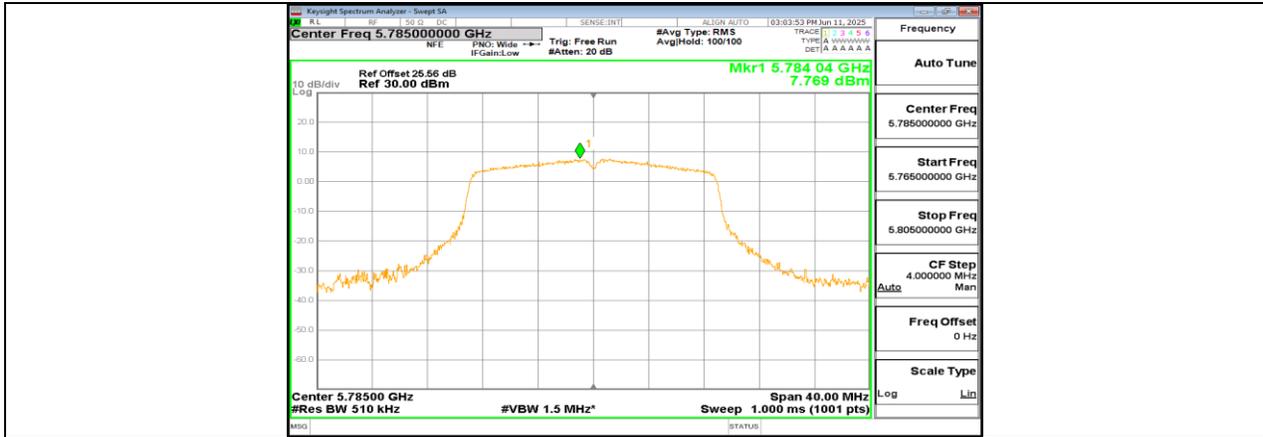
11N20MIMO\_Ant0\_5745



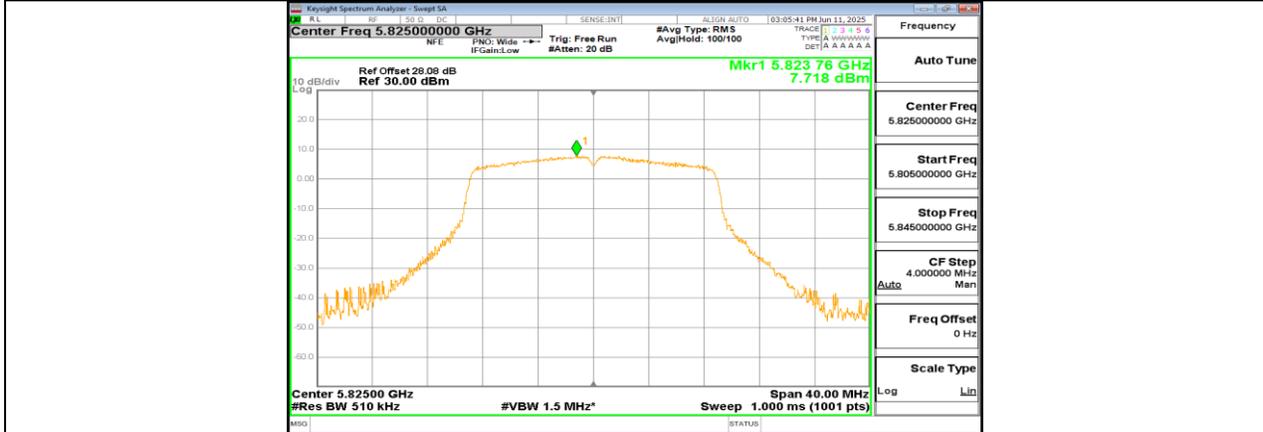
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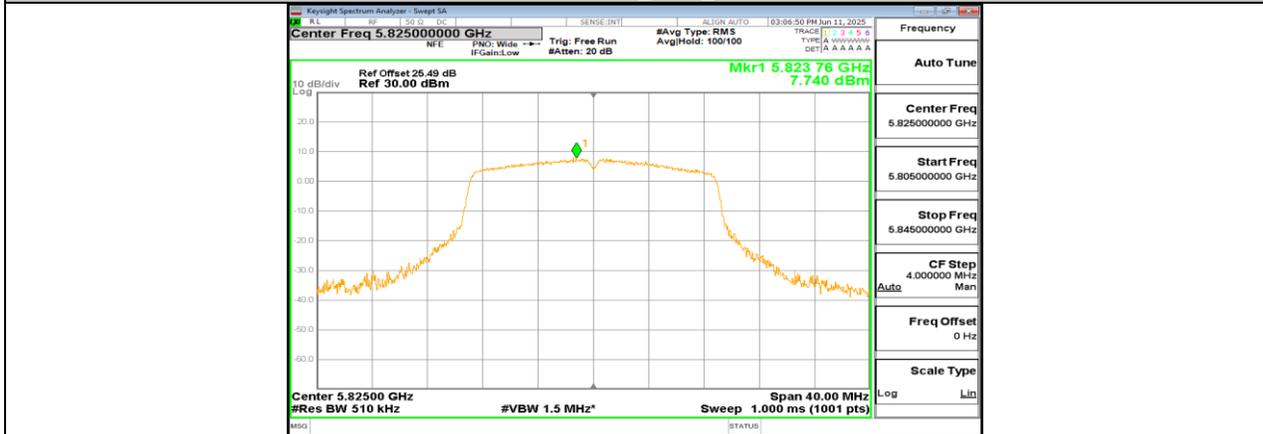
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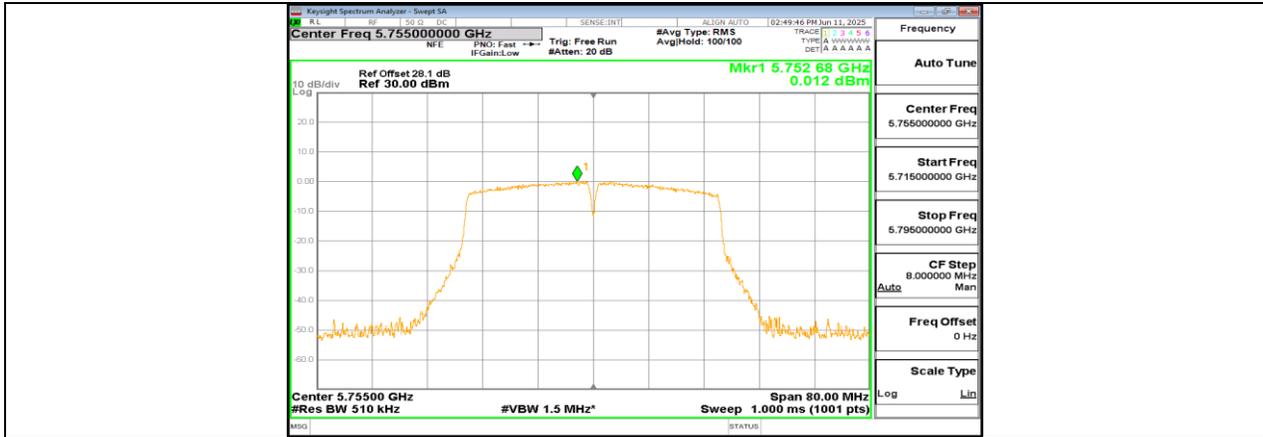
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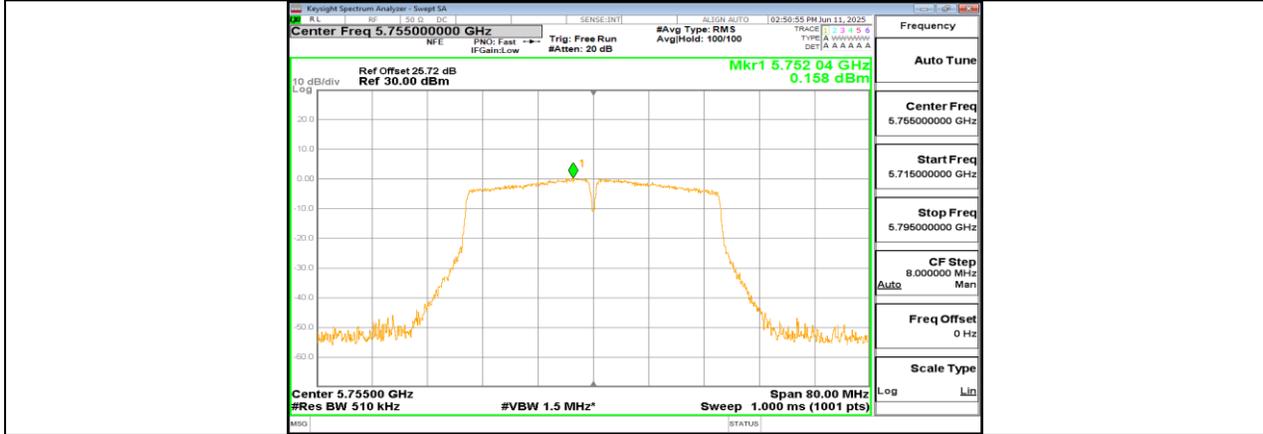
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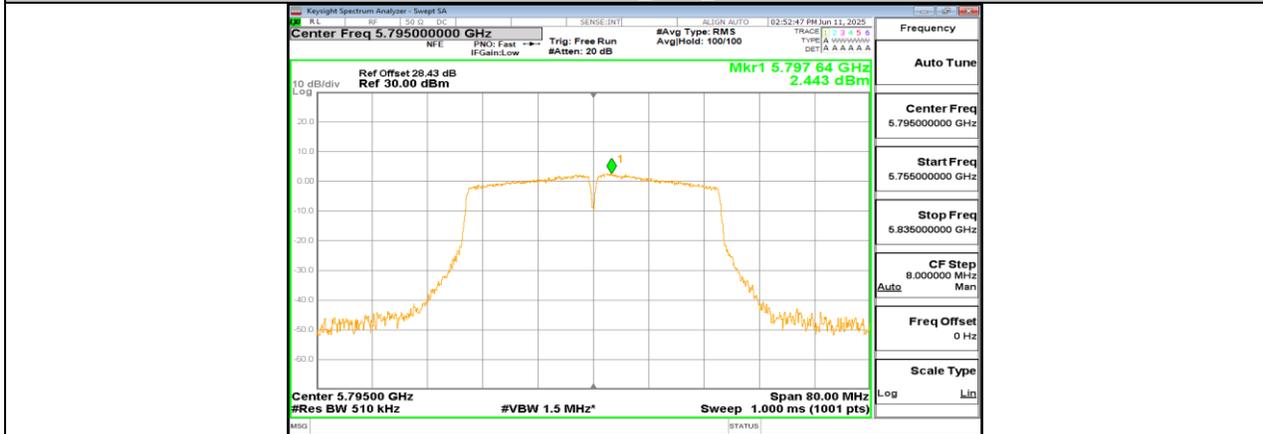
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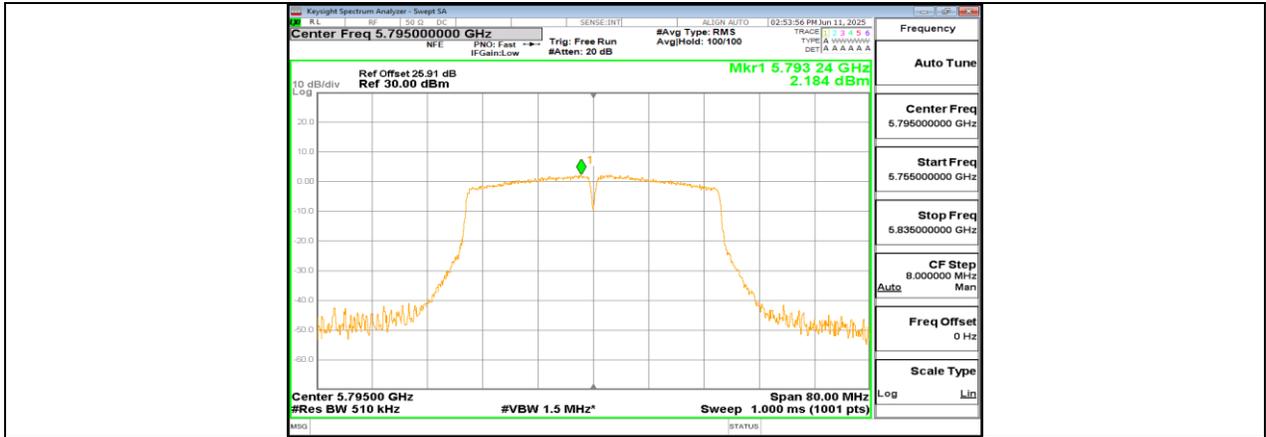
11N40MIMO\_Ant0\_5755



11N40MIMO\_Ant1\_5755



11N40MIMO\_Ant0\_5795



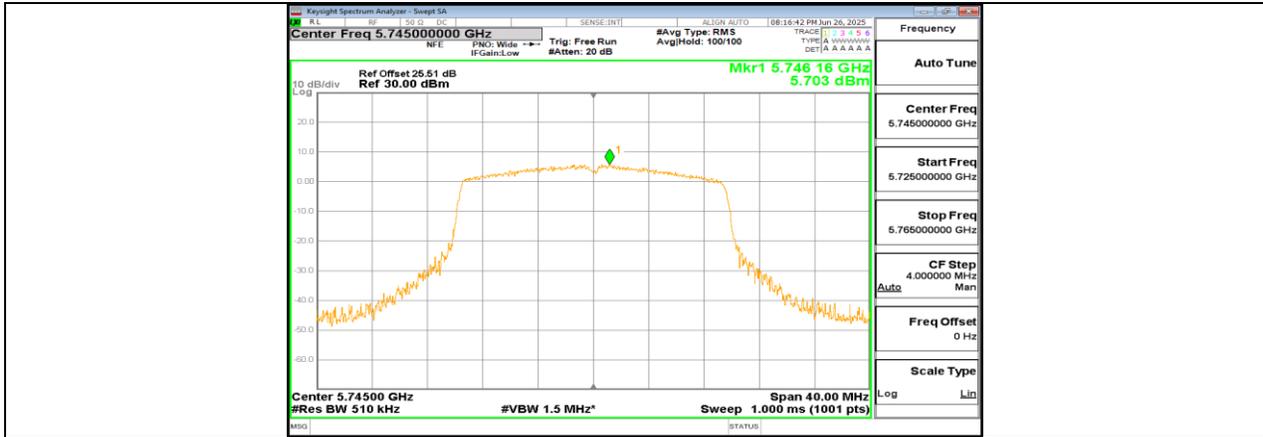
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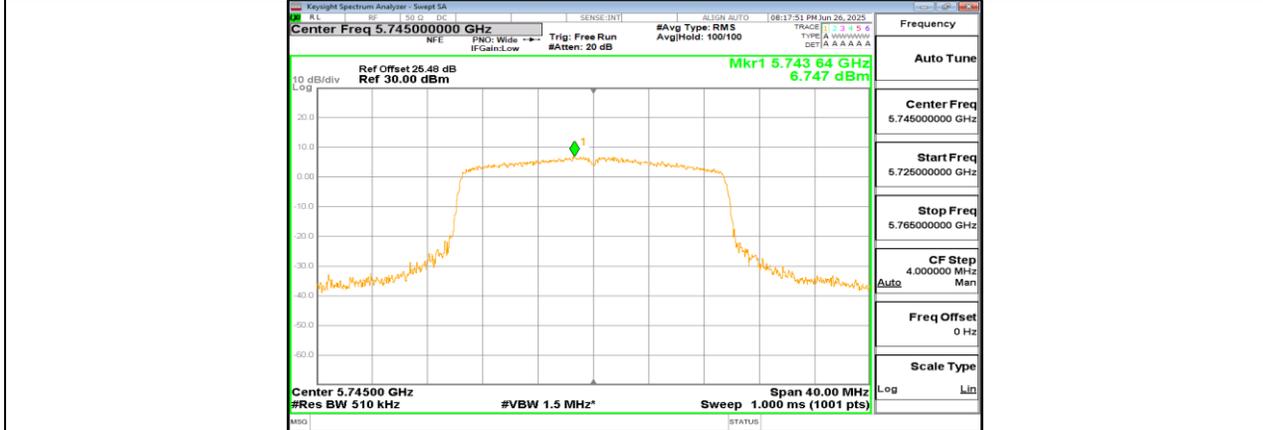
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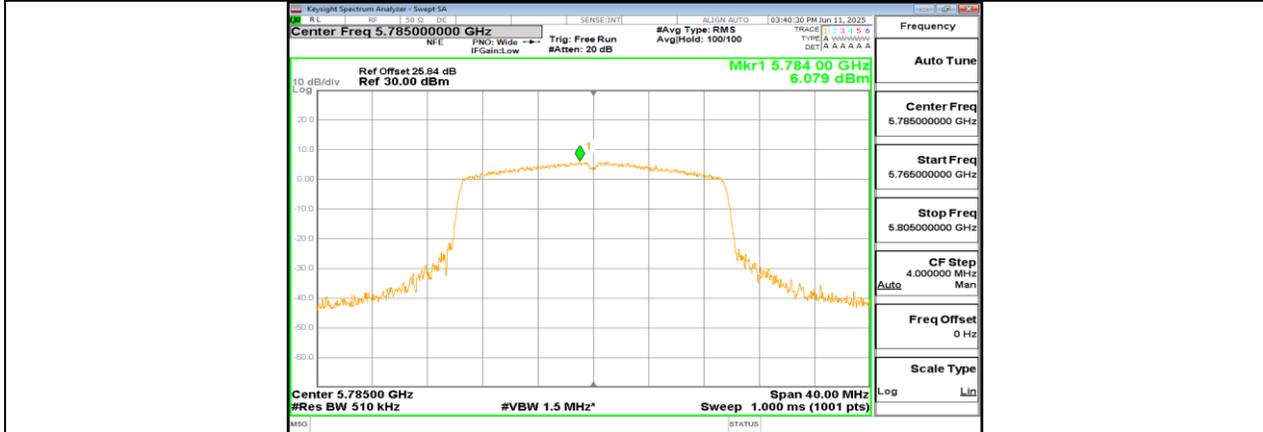
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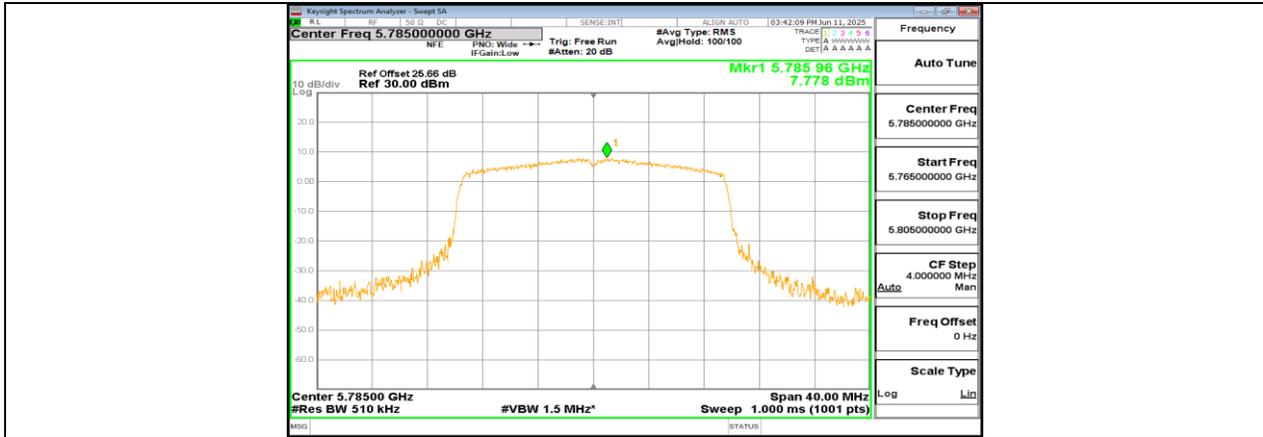
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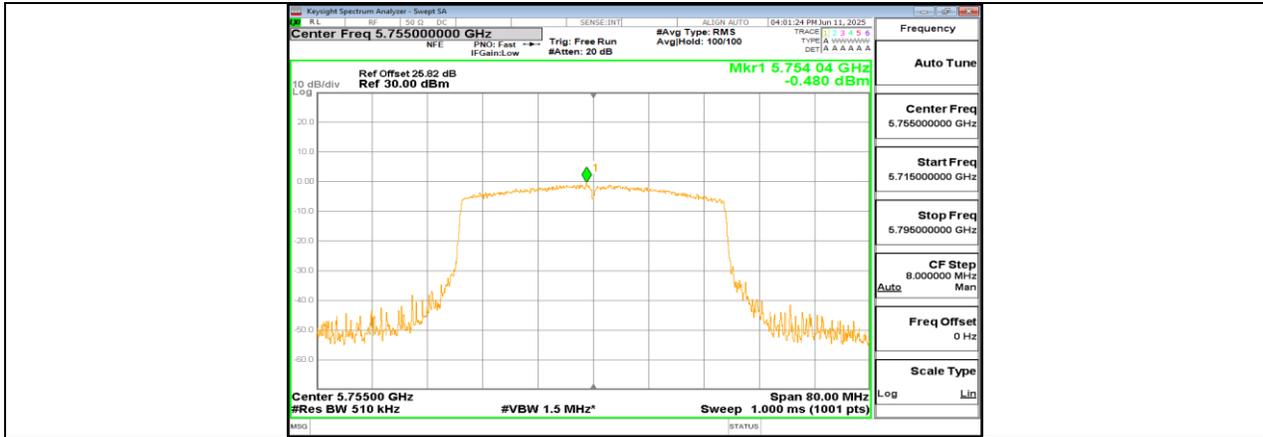


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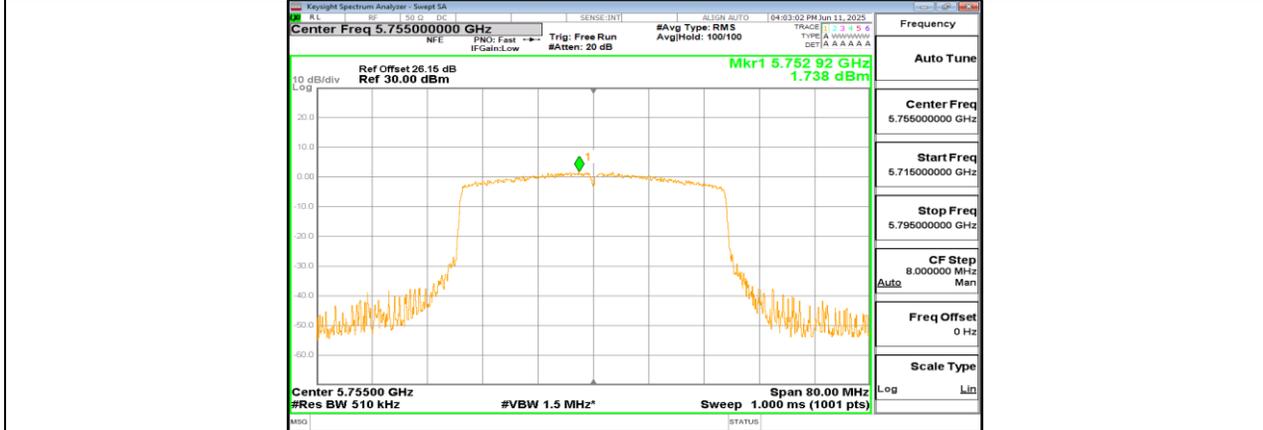


11AX20MIMO\_Ant0\_5785

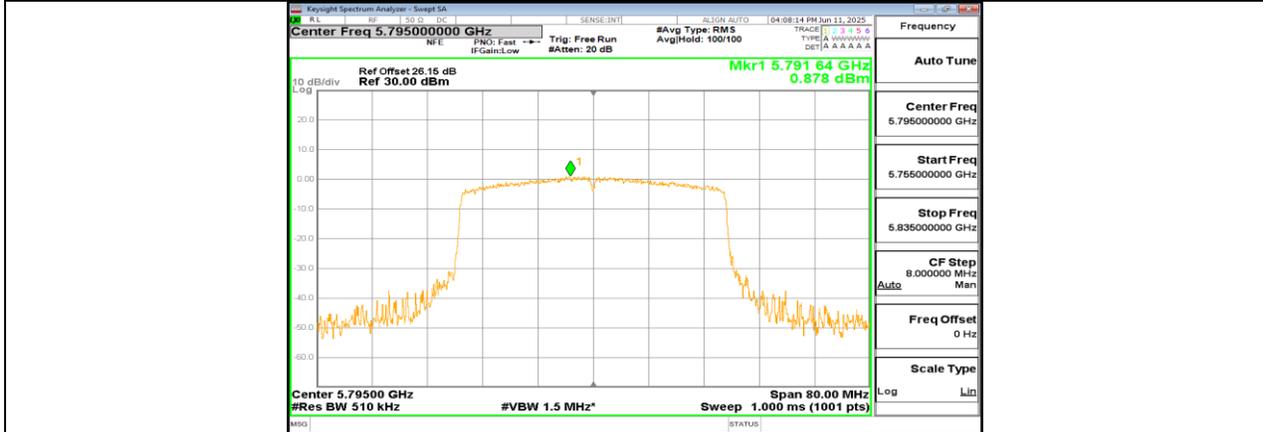




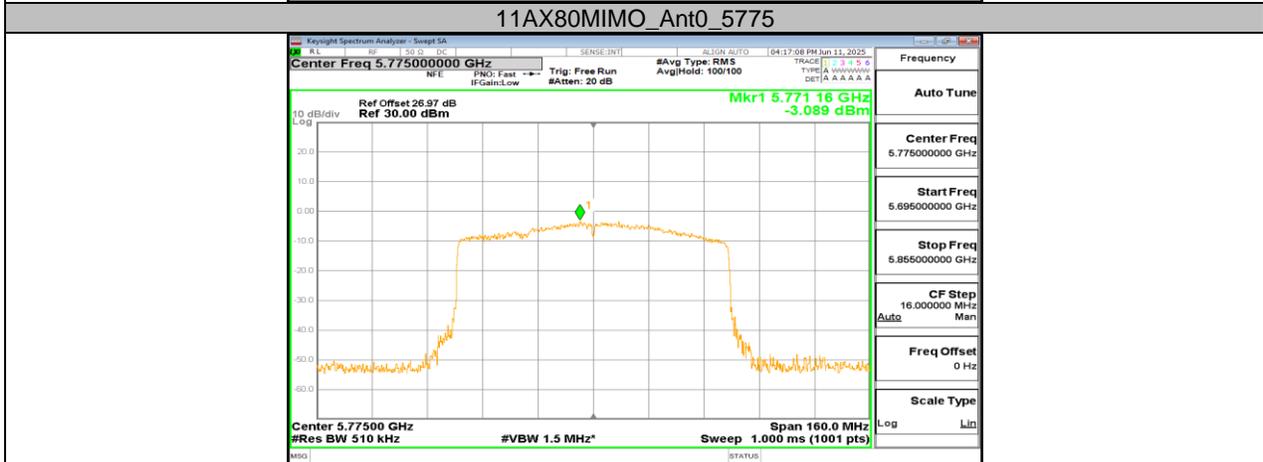
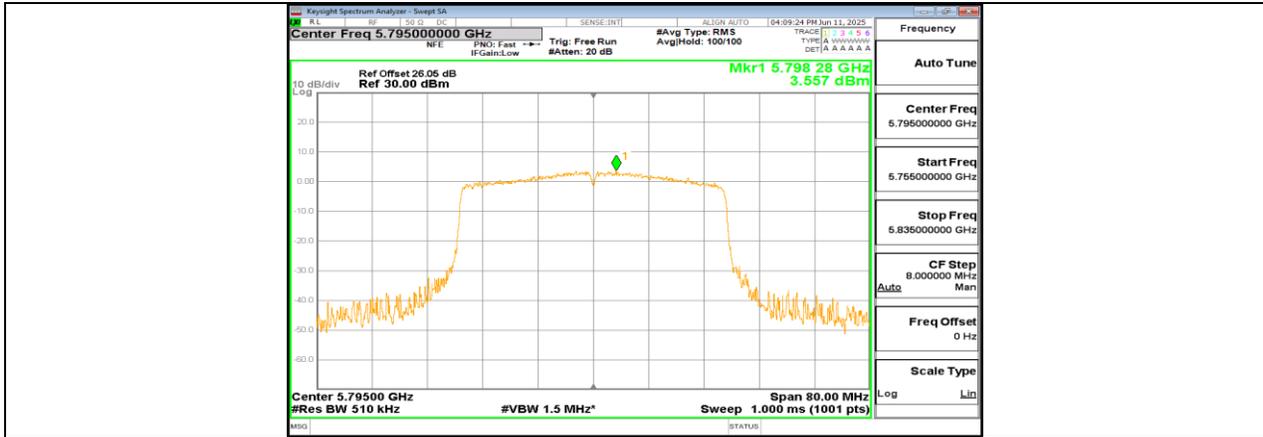
11AX40MIMO\_Ant0\_5755



11AX40MIMO\_Ant1\_5755



11AX40MIMO\_Ant0\_5795



## 11.6. APPENDIX F: FREQUENCY STABILITY

### 11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
TN	VL	5824.9997	-0.04	5824.9998	-0.04	5825.0107	1.84	5825.0211	3.63
TN	VN	5824.9851	-2.56	5825.0175	3.00	5825.0206	3.53	5824.9868	-2.26
TN	VH	5825.0225	3.86	5824.9890	-1.90	5824.9791	-3.60	5824.9949	-0.87

Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)						
40	VN	5824.9847	-2.63	5824.9758	-4.16	5825.0179	3.08	5824.9894	-1.82
30	VN	5825.0233	4.00	5825.0022	0.39	5824.9880	-2.05	5824.9908	-1.57
20	VN	5824.9933	-1.15	5825.0234	4.02	5824.9970	-0.51	5824.9842	-2.70
10	VN	5824.9788	-3.64	5825.0096	1.65	5825.0177	3.04	5825.0032	0.55
0	VN	5825.0123	2.10	5825.0205	3.51	5825.0156	2.69	5824.9755	-4.21

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

**11.7. APPENDIX G: DUTY CYCLE**  
**11.7.1. Test Result**

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.39	1.51	0.9205	92.05	0.36	0.72	1
11N20MIMO	0.18	0.36	0.5000	50.00	3.01	5.56	6
11N40MIMO	0.10	0.21	0.4762	47.62	3.22	10.00	10
11AC80MIMO	0.32	0.50	0.6400	64.00	1.94	3.13	4
11AX20MIMO	1.01	1.19	0.8487	84.87	0.71	0.99	1
11AX40MIMO	0.54	0.67	0.8060	80.60	0.94	1.85	2
11AX80MIMO	0.28	0.46	0.6087	60.87	2.16	3.57	4

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

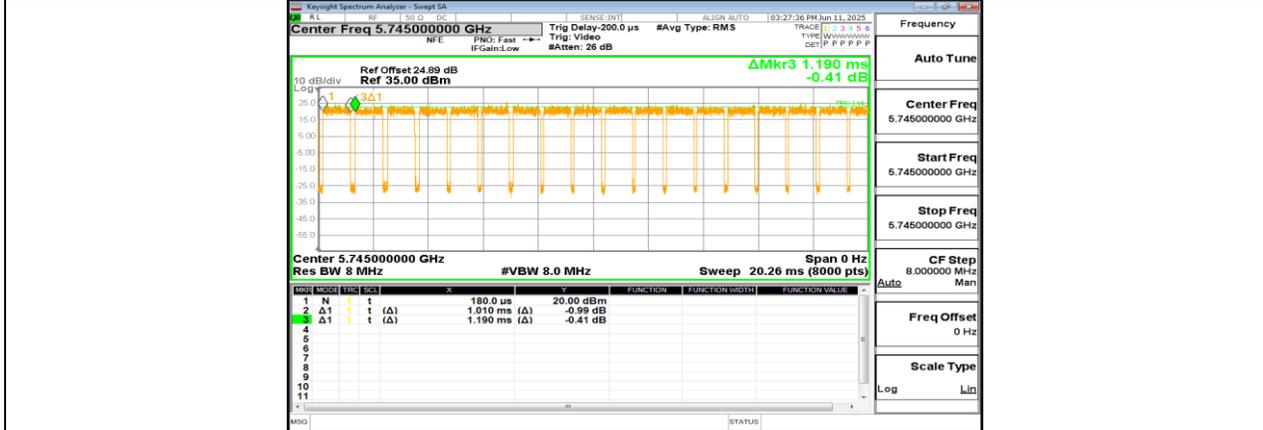
If that calculated VBW is not available on the analyzer then the next higher value should be used.

### 11.7.2. Test Graphs

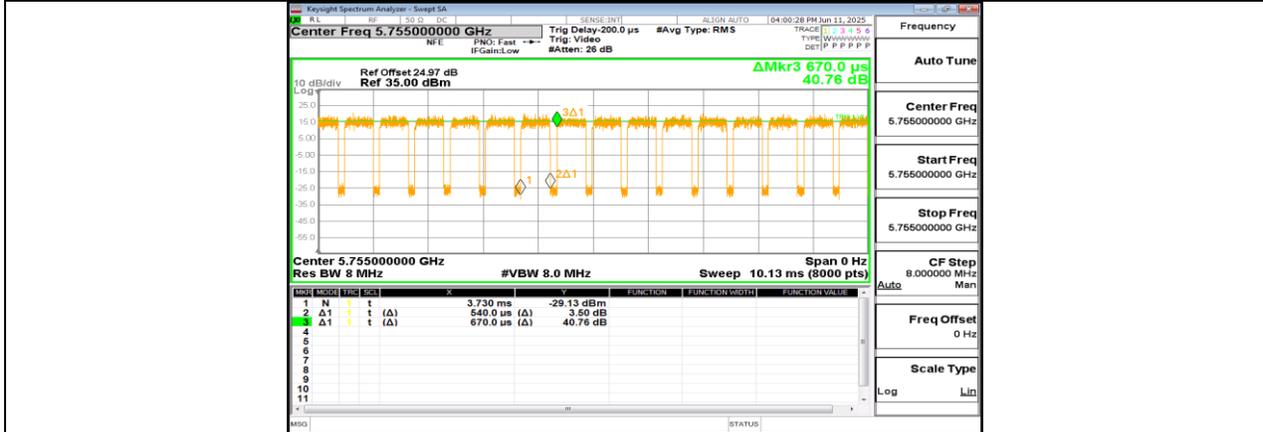




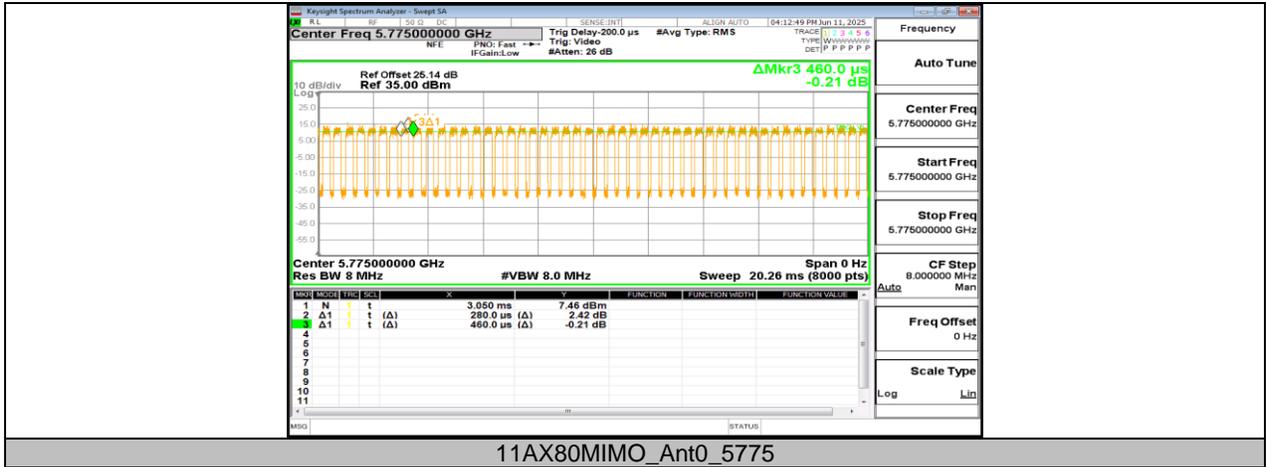
11AC80MIMO\_Ant0\_5775



11AX20MIMO\_Ant0\_5745



11AX40MIMO\_Ant0\_5755



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**END OF REPORT**