

### Maximum power spectral density

#### Test Result

TestMode	Antenna	Channel	Result [dBm/10kHz]	Result [dBm/3kHz]	Duty cycle factor	Final result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.09	-14.320	N/A	-14.320	<=8	PASS
		2437	-11.69	-16.920	N/A	-16.920	<=8	PASS
		2462	-9.68	-14.910	N/A	-14.910	<=8	PASS
11G	Ant1	2412	-14.68	-19.910	0.116	-19.794	<=8	PASS
		2437	-14.53	-19.760	0.116	-19.644	<=8	PASS
		2462	-14.01	-19.240	0.116	-19.124	<=8	PASS
11N20SISO	Ant1	2412	-13.01	-18.240	0.124	-18.116	<=8	PASS
		2437	-14.63	-19.860	0.182	-19.678	<=8	PASS
		2462	-13.34	-18.570	0.120	-18.450	<=8	PASS

**Note:**

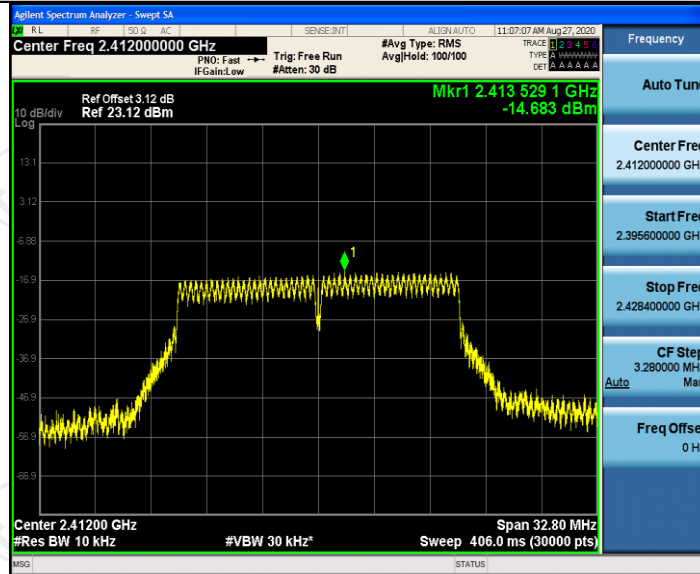
Duty cycle > 98%      N/A  
 Duty cycle factor =  $10 \log 1/\text{dutycycle}$   
 Final result = Result +  $(10 \log 1/\text{dutycycle})$   
 Compensate 10dB is for Exchange rate of RBW  
 Exchange rate of RBW =  $10 * \log_{10}(3\text{KHz} / \text{RBW at measurement}) \approx -5.23[\text{dB}]$   
 where Reference bandwidth = 10 KHz

Test Graphs

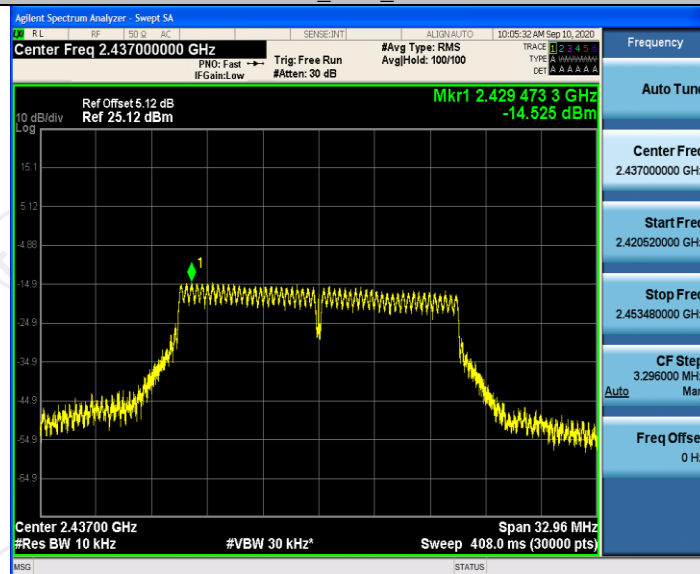




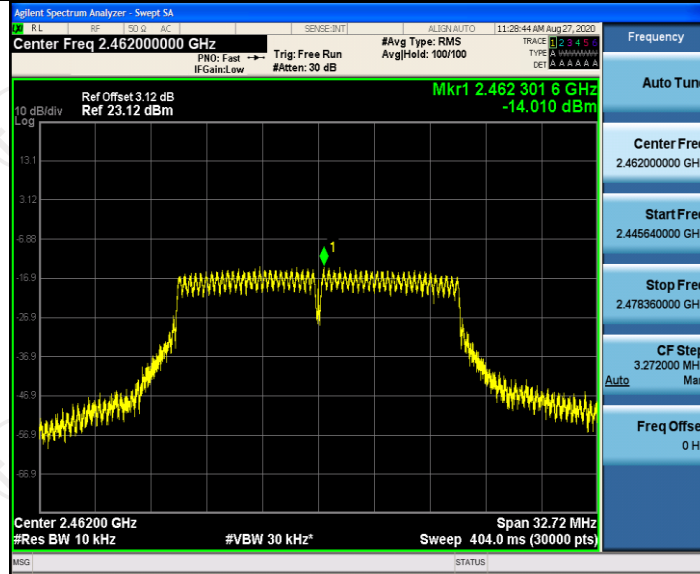
11G\_Ant1\_2412



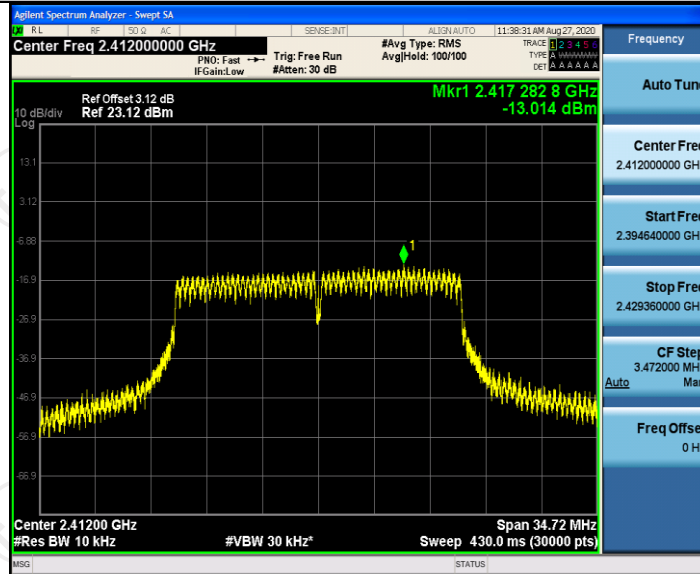
11G\_Ant1\_2437



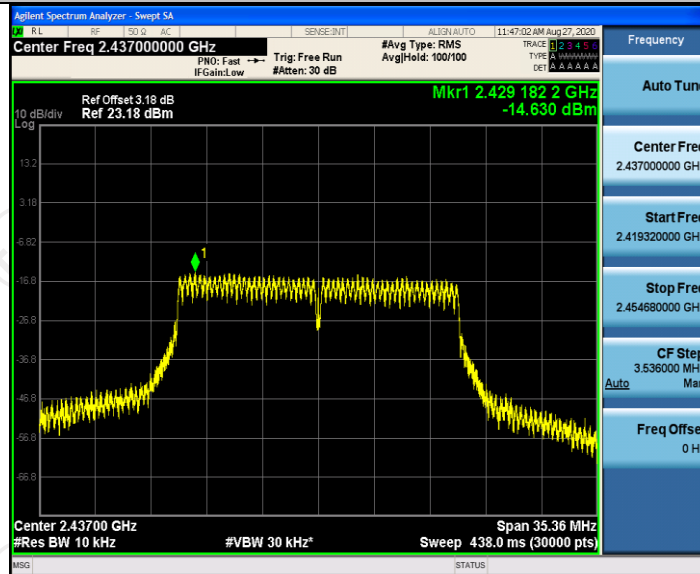
11G\_Ant1\_2462



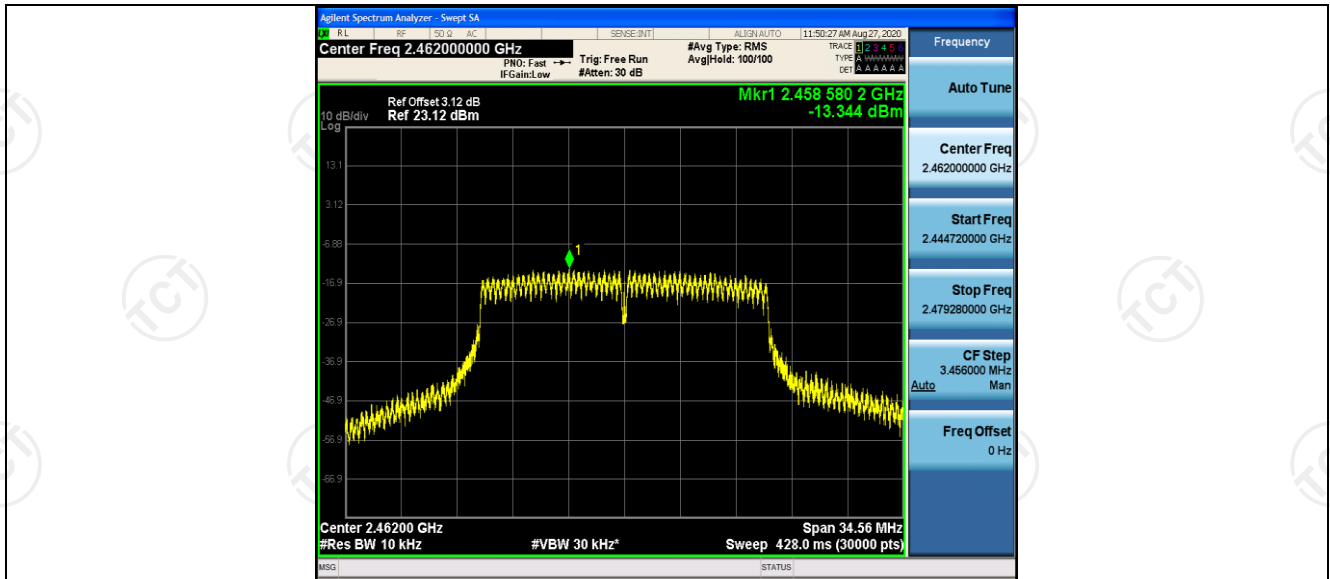
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



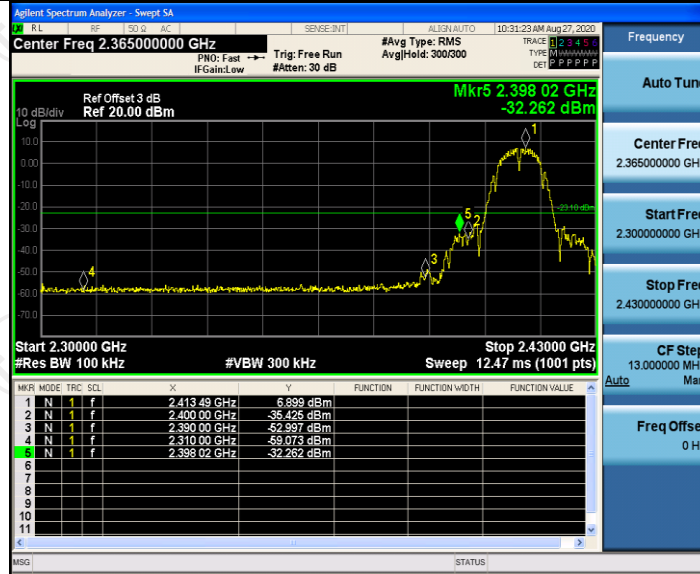
### Band edge measurements

#### Test Result

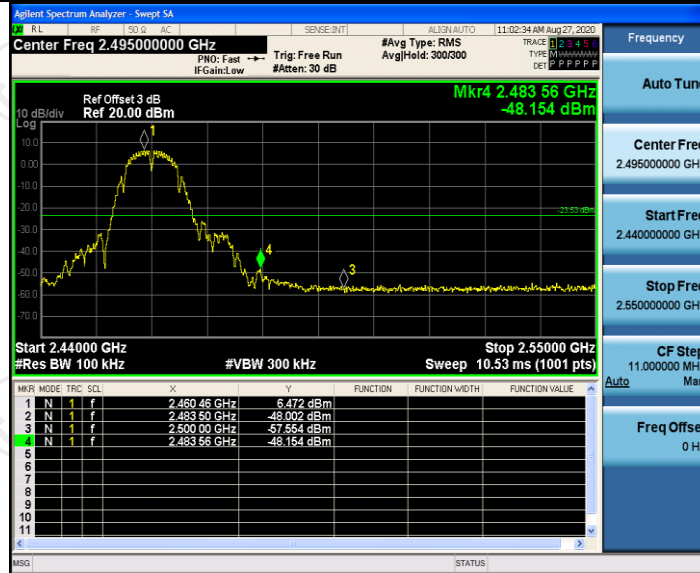
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	6.90	-32.26	<=-23.10	PASS
		High	2462	6.47	-48.15	<=-23.53	PASS
11G	Ant1	Low	2412	2.74	-28.15	<=-27.26	PASS
		High	2462	3.10	-39.47	<=-26.90	PASS
11N20SISO	Ant1	Low	2412	4.29	-26.24	<=-25.71	PASS
		High	2462	4.11	-33.6	<=-25.89	PASS

Test Graphs

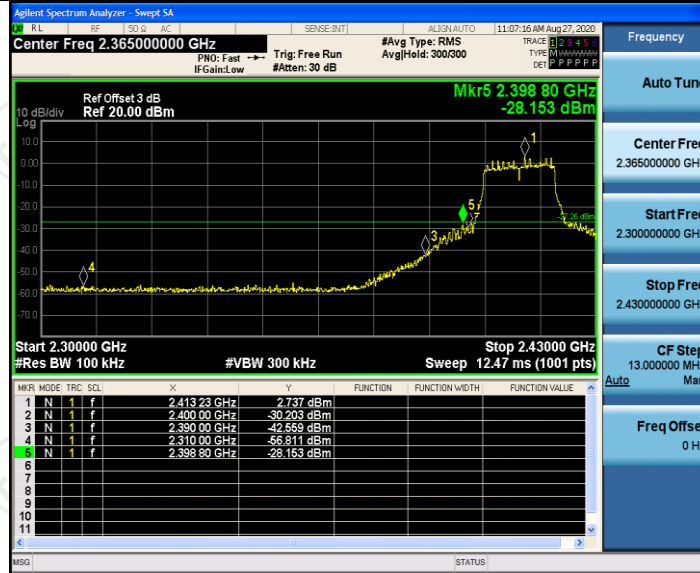
11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462

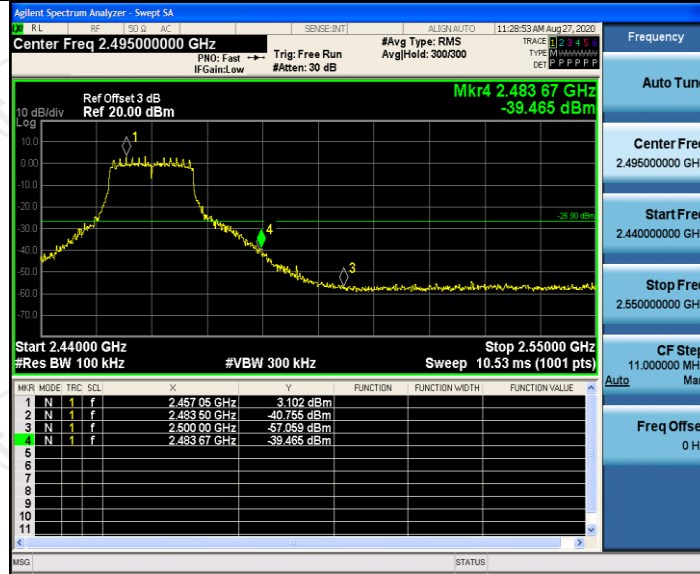


11G\_Ant1\_Low\_2412





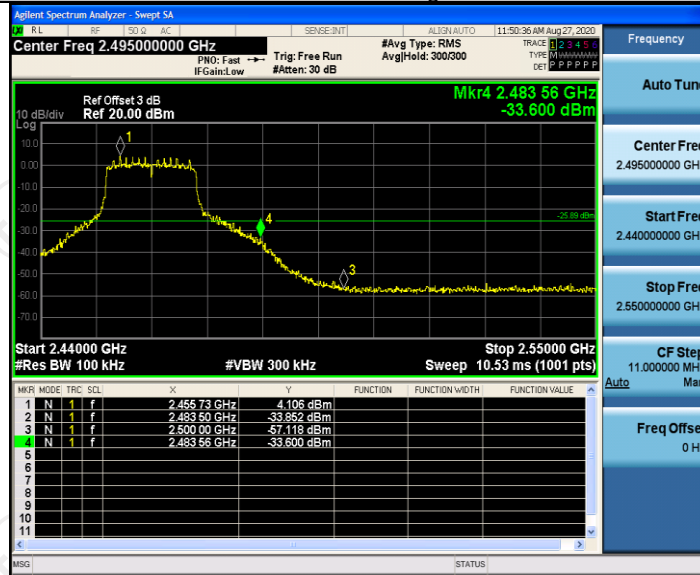
## 11G\_Ant1\_High\_2462



## 11N20SISO\_Ant1\_Low\_2412



## 11N20SISO\_Ant1\_High\_2462



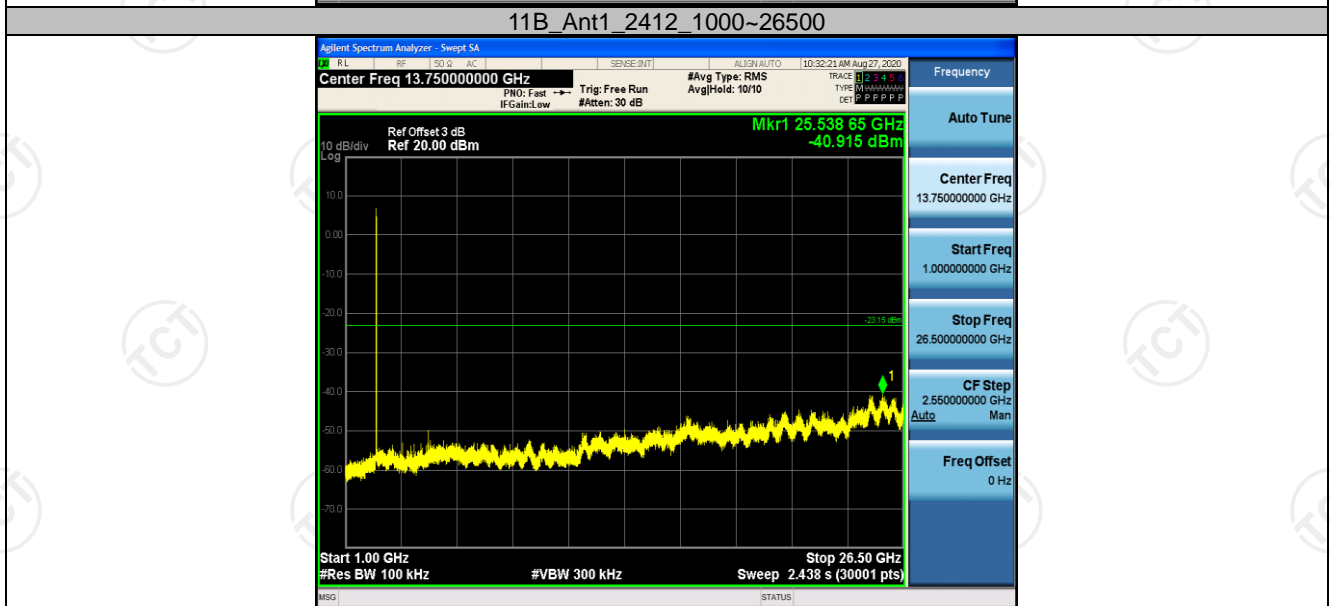
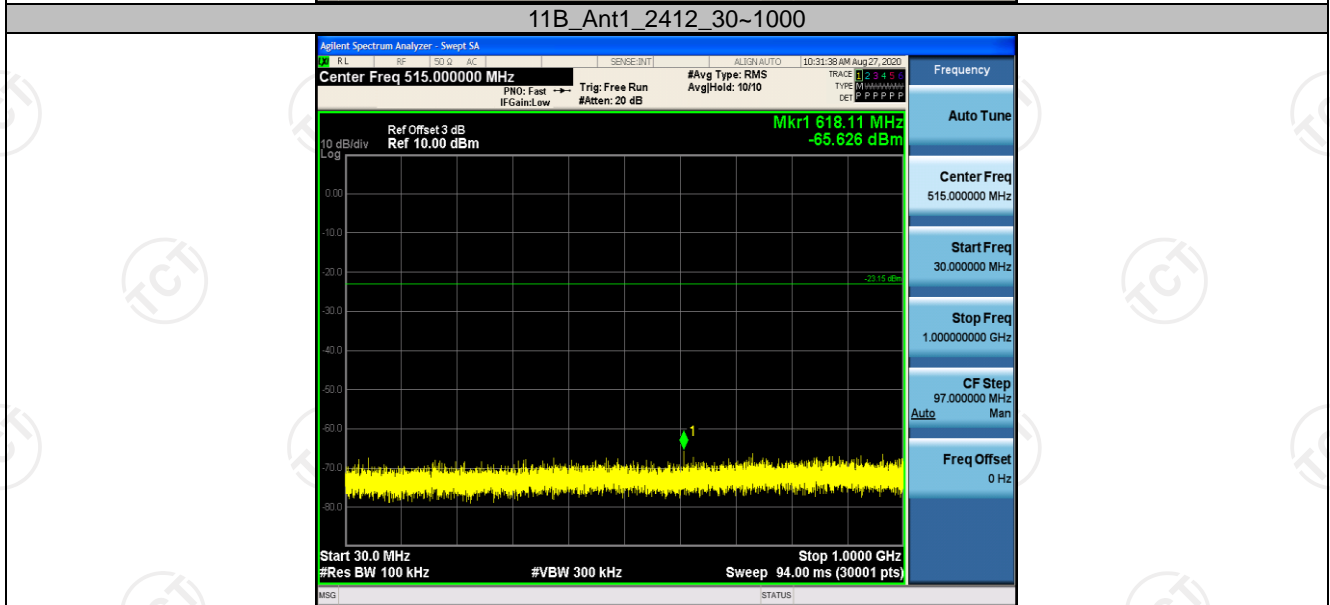
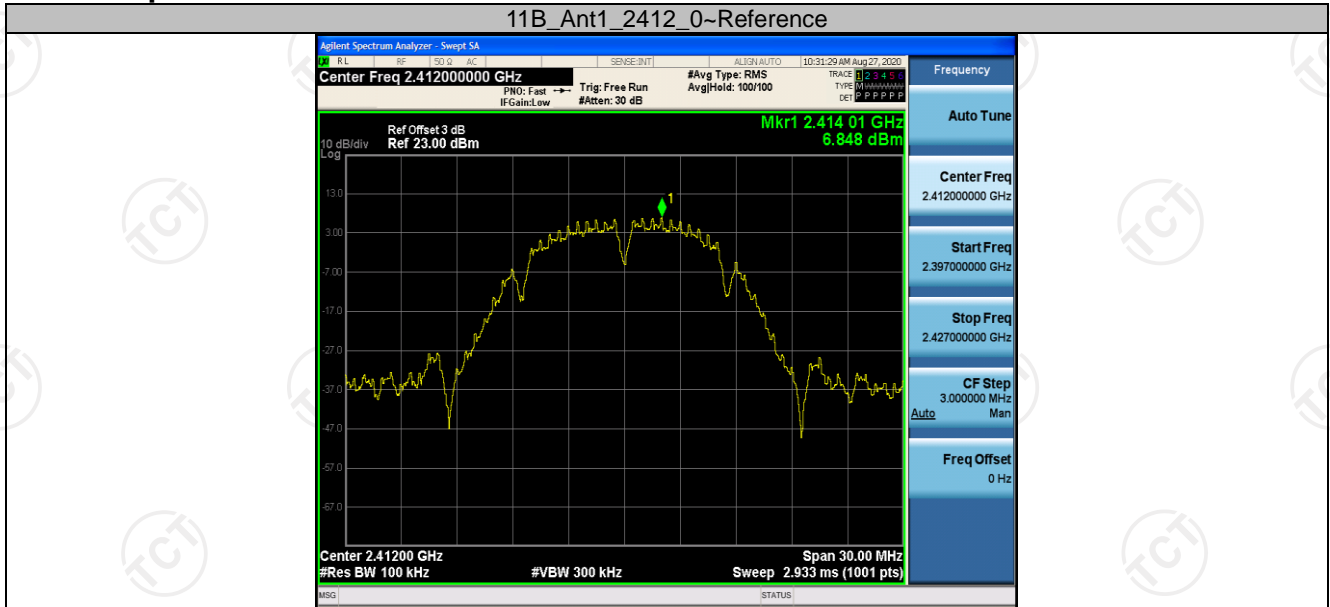


### Conducted Spurious Emission

#### Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.85	6.85	---	PASS
			30~1000	30~1000	-65.626	<=-23.152	PASS
			1000~26500	1000~26500	-40.915	<=-23.152	PASS
		2437	Reference	5.44	5.44	---	PASS
			30~1000	30~1000	-65.725	<=-24.563	PASS
			1000~26500	1000~26500	-39.96	<=-24.563	PASS
		2462	Reference	6.44	6.44	---	PASS
			30~1000	30~1000	-64.871	<=-23.556	PASS
			1000~26500	1000~26500	-40.872	<=-23.556	PASS
11G	Ant1	2412	Reference	1.27	1.27	---	PASS
			30~1000	30~1000	-66.613	<=-28.731	PASS
			1000~26500	1000~26500	-36.861	<=-28.731	PASS
		2437	Reference	2.83	2.83	---	PASS
			30~1000	30~1000	-51.295	<=-17.17	PASS
			1000~26500	1000~26500	-38.439	<=-17.17	PASS
		2462	Reference	2.98	2.98	---	PASS
			30~1000	30~1000	-65.534	<=-27.021	PASS
			1000~26500	1000~26500	-40.772	<=-27.021	PASS
11N20SISO	Ant1	2412	Reference	4.27	4.27	---	PASS
			30~1000	30~1000	-55.912	<=-25.732	PASS
			1000~26500	1000~26500	-40.539	<=-25.732	PASS
		2437	Reference	3.19	3.19	---	PASS
			30~1000	30~1000	-66.746	<=-26.813	PASS
			1000~26500	1000~26500	-40.288	<=-26.813	PASS
		2462	Reference	4.68	4.68	---	PASS
			30~1000	30~1000	-49.59	<=-25.322	PASS
			1000~26500	1000~26500	-40.308	<=-25.322	PASS

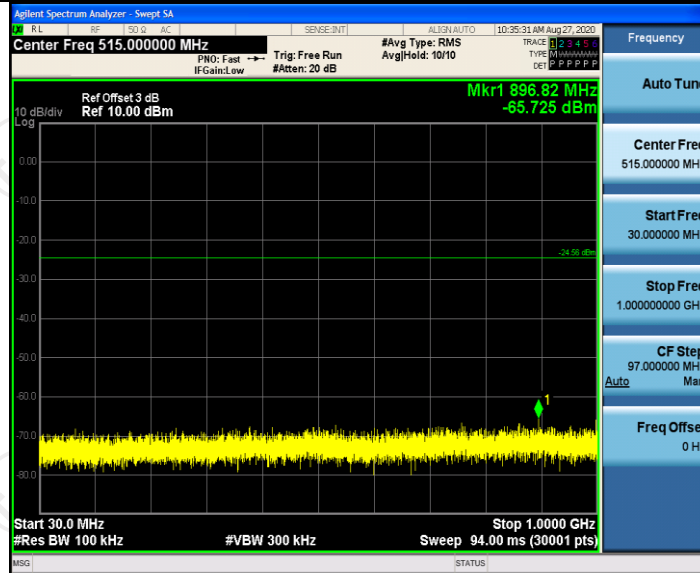
Test Graphs



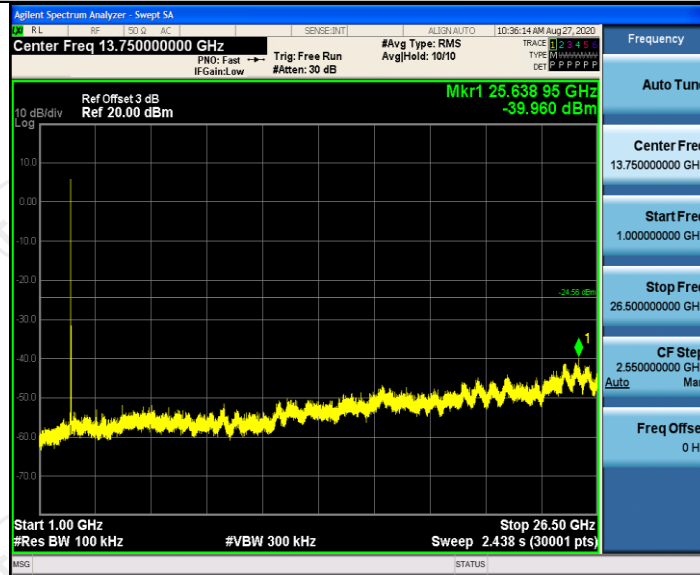
### 11B\_Ant1\_2437\_0-Reference



### 11B\_Ant1\_2437\_30~1000



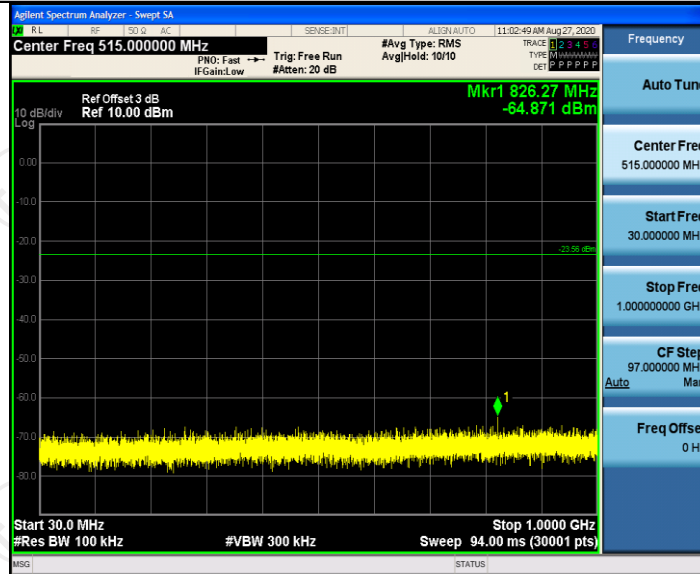
### 11B\_Ant1\_2437 1000~26500



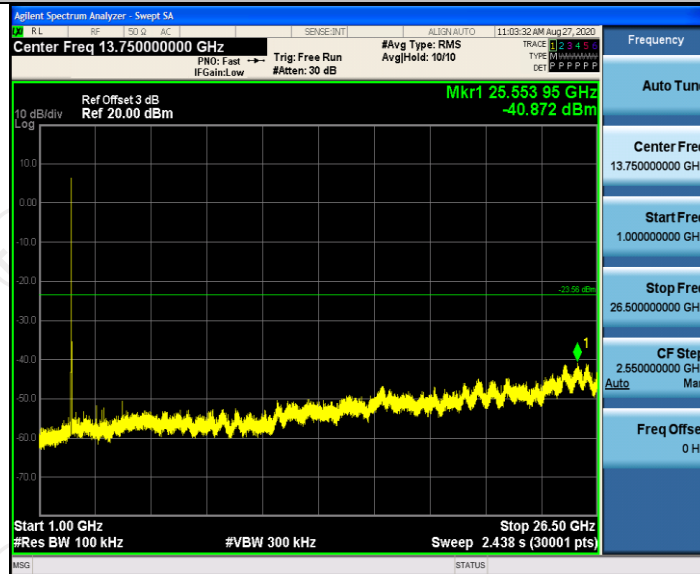
### 11B\_Ant1\_2462\_0-Reference



11B\_Ant1\_2462\_30~1000



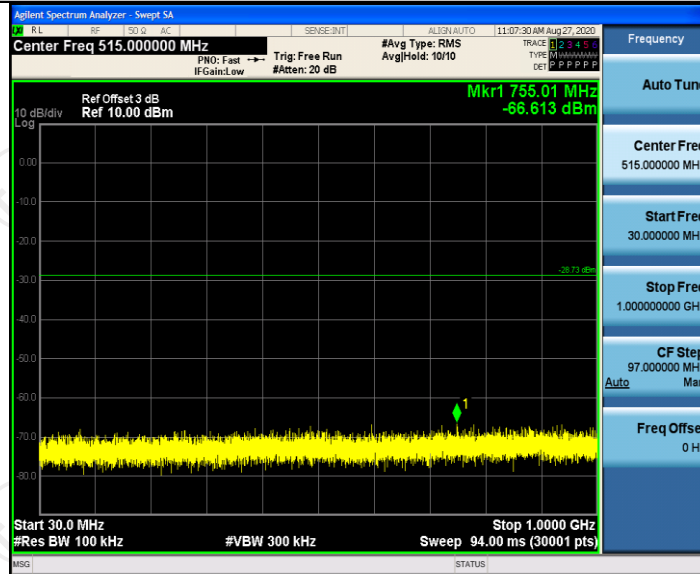
11B\_Ant1\_2462\_1000~26500



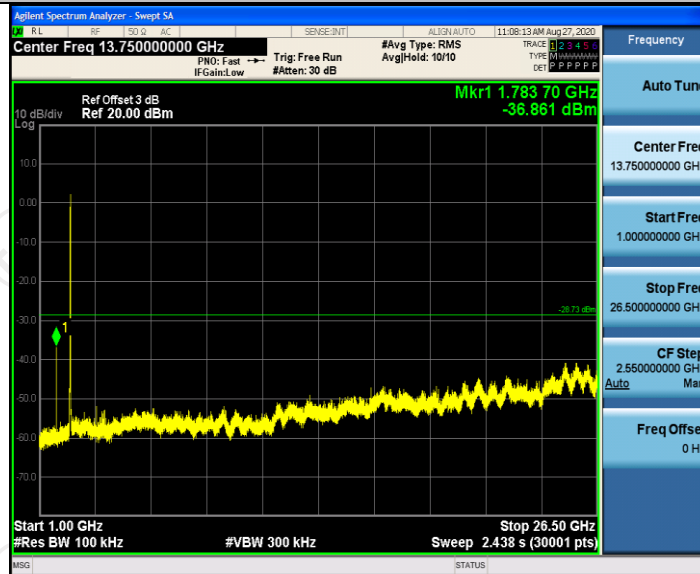
11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000



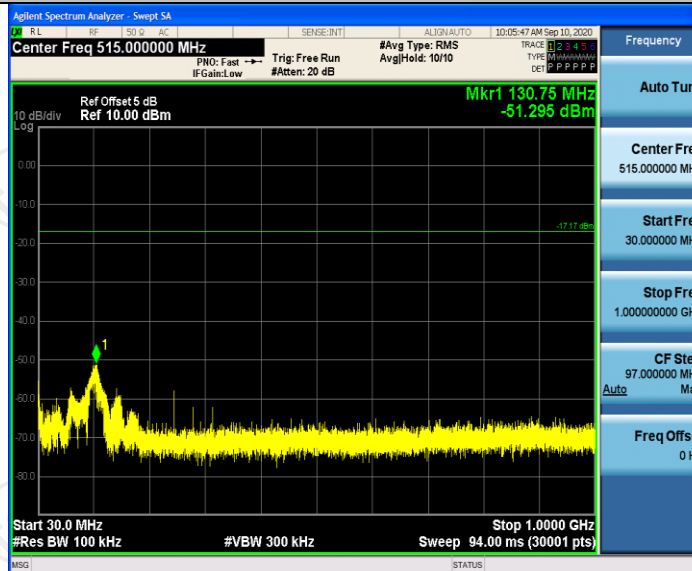
11G\_Ant1\_2412\_1000~26500



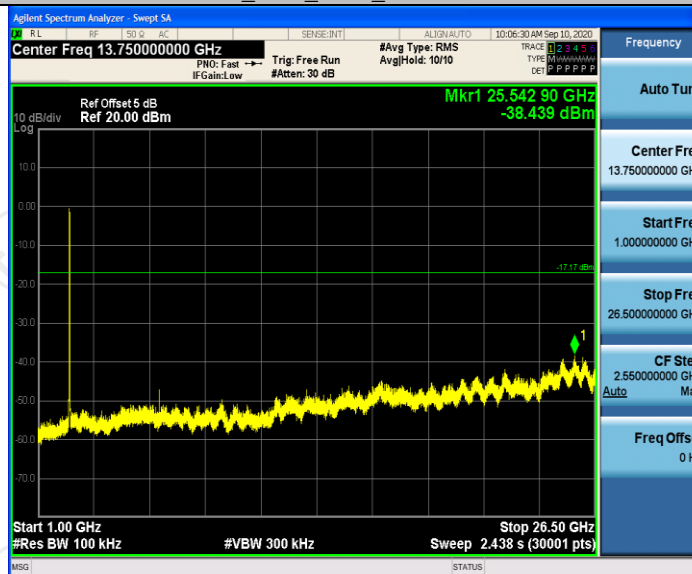
11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

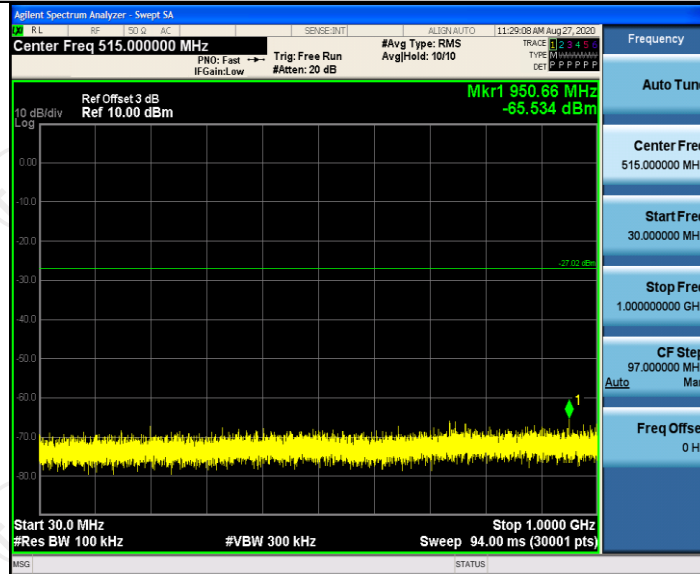


11G\_Ant1\_2462\_0~Reference

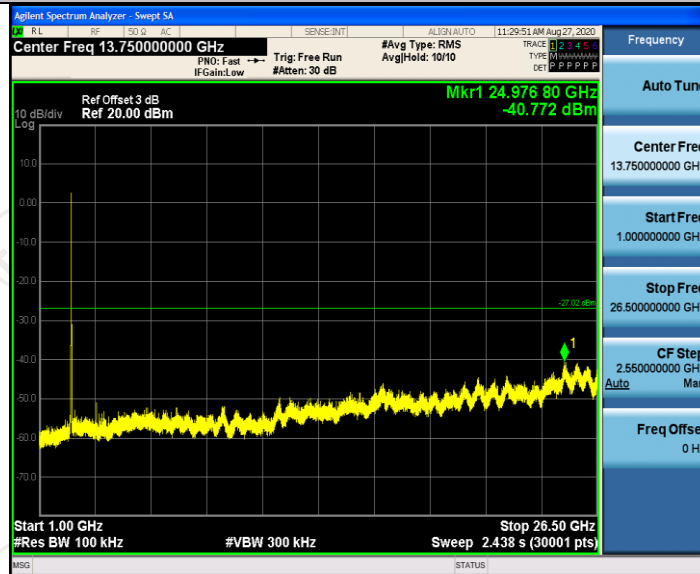




11G\_Ant1\_2462\_30~1000

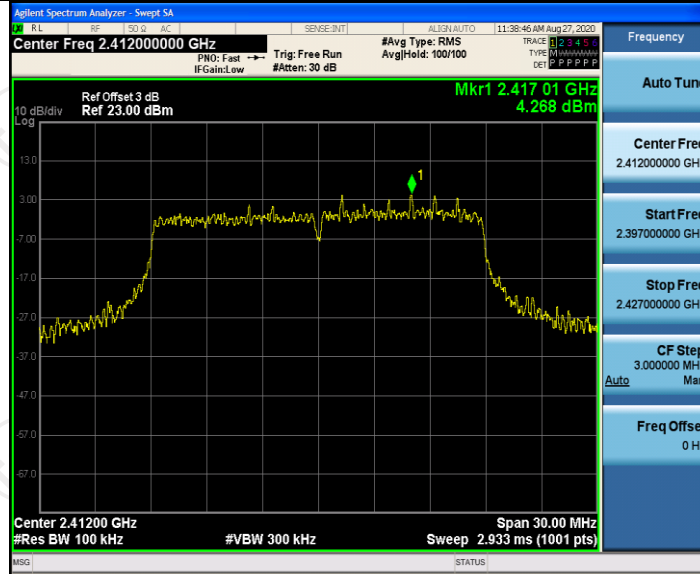


11G\_Ant1\_2462\_1000~26500

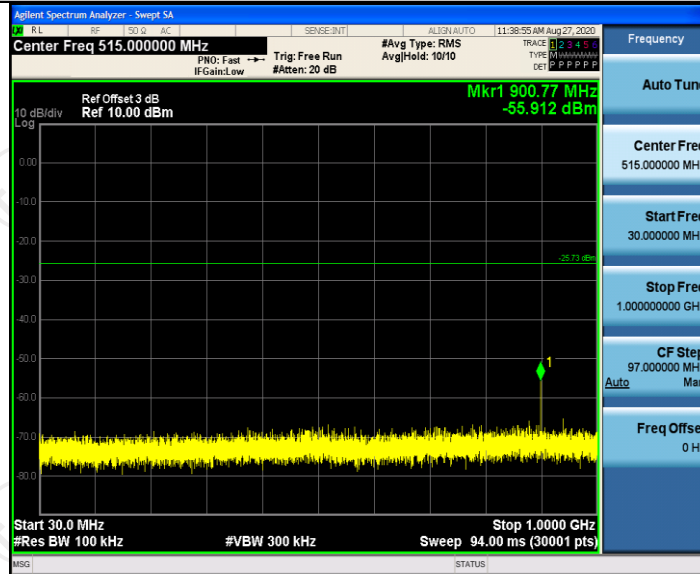


11N20SISO\_Ant1\_2412\_0~Reference

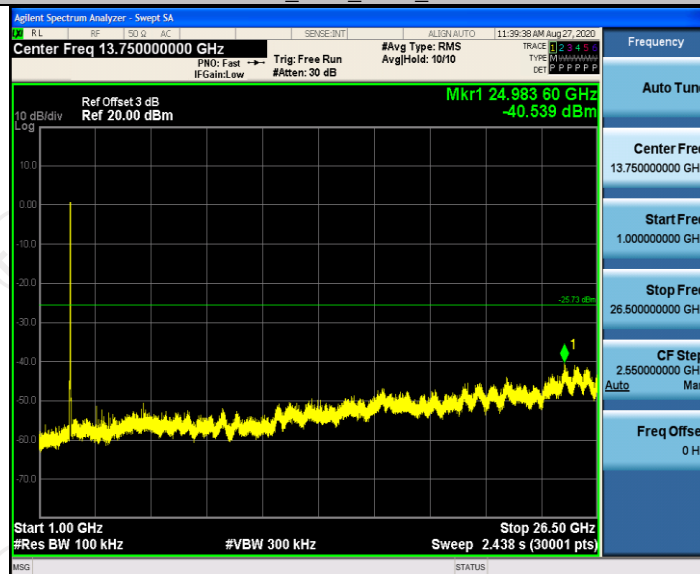




11N20SISO\_Ant1\_2412\_30~1000



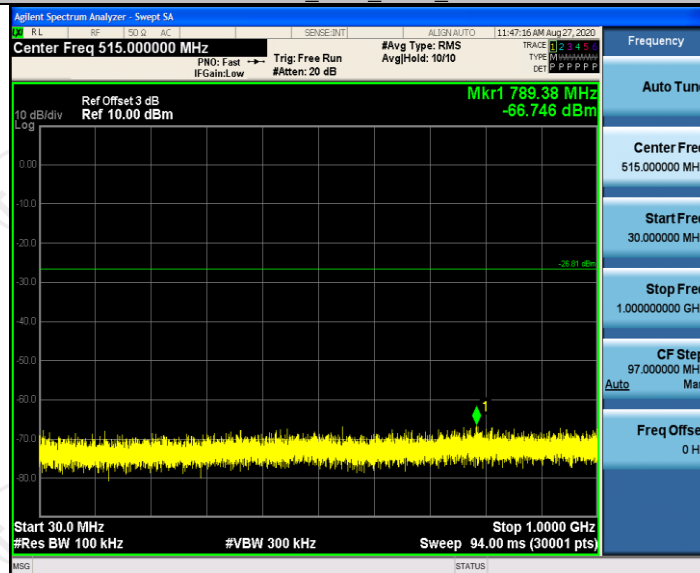
11N20SISO\_Ant1\_2412\_1000~26500



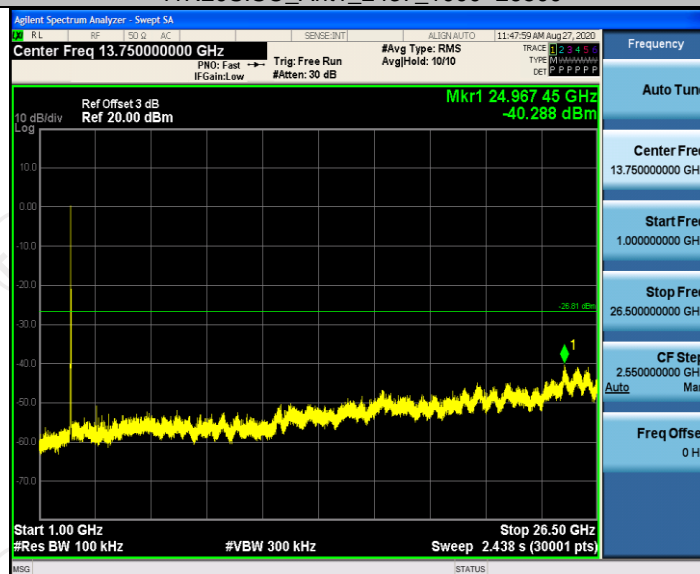
11N20SISO\_Ant1\_2437\_0~Reference



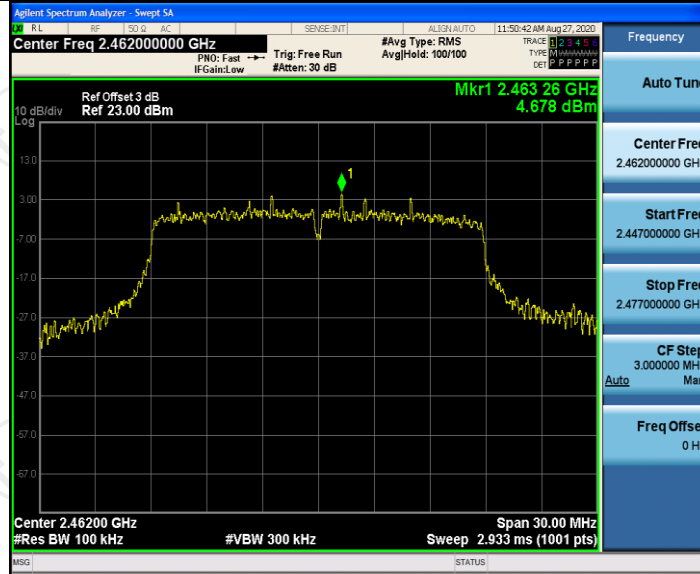
11N20SISO\_Ant1\_2437\_30~1000



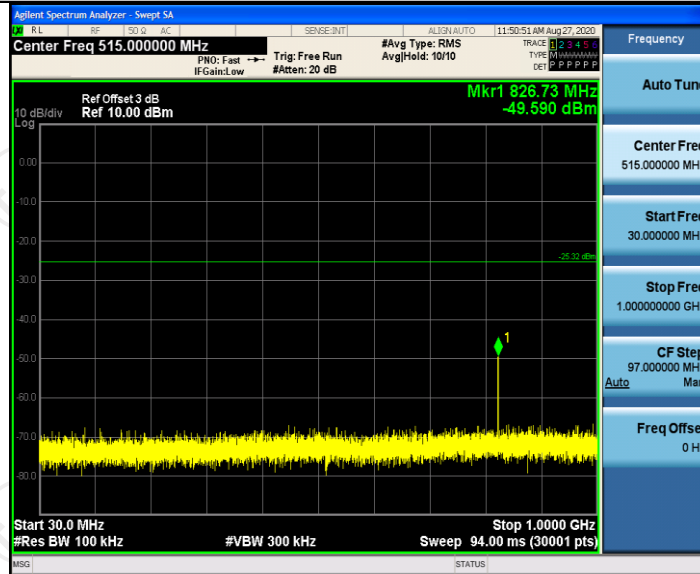
11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



## Duty Cycle

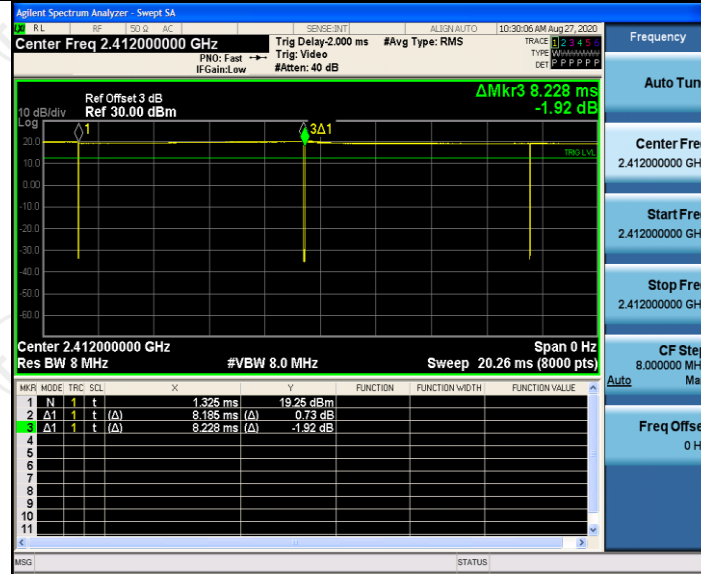
### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty cycle factor	Limit	Verdict
11B	Ant1	2412	8.19	8.23	99.48	N/A	---	PASS
		2437	8.19	8.23	99.48	N/A	---	PASS
		2462	8.19	8.23	99.48	N/A	---	PASS
11G	Ant1	2412	1.36	1.40	97.37	0.116	---	PASS
		2437	1.36	1.40	97.37	0.116	---	PASS
		2462	1.36	1.40	97.37	0.116	---	PASS
11N20SISO	Ant1	2412	1.27	1.31	97.19	0.124	---	PASS
		2437	1.27	1.32	95.89	0.182	---	PASS
		2462	1.27	1.31	97.28	0.120	---	PASS

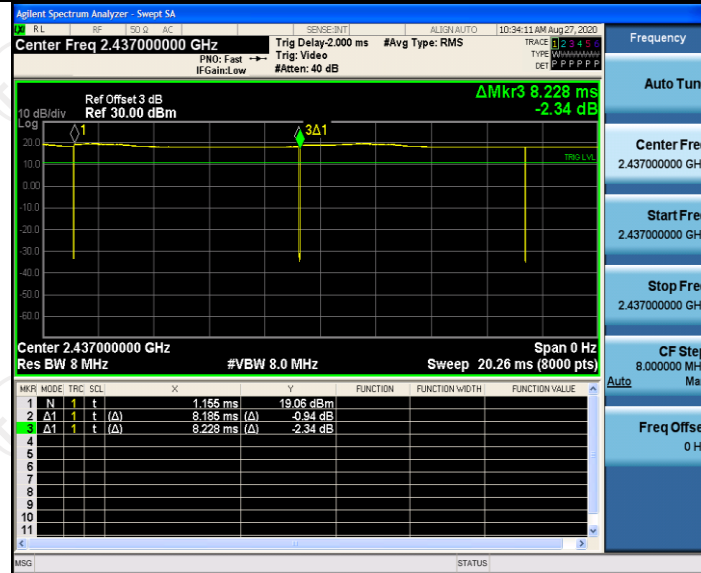
**Note:** 1.Duty cycle > 98% N/A  
2.Duty cycle factor =  $10 \log 1/\text{duty cycle}$

Test Graphs

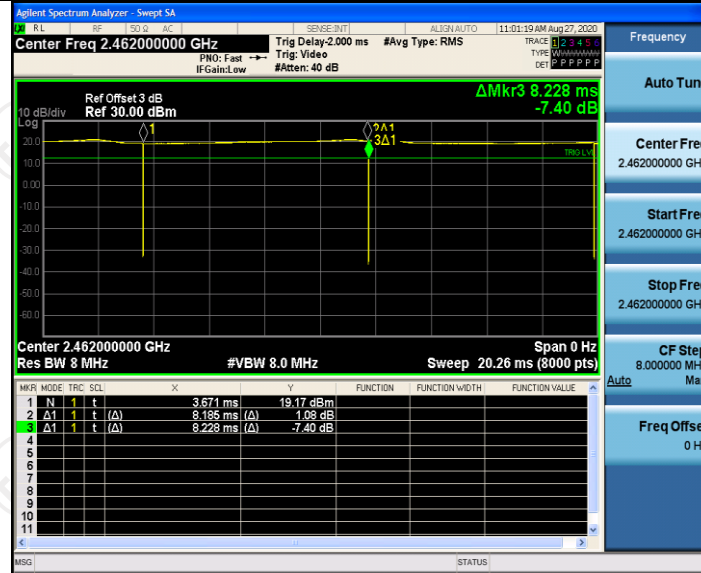
11B\_Ant1\_2412



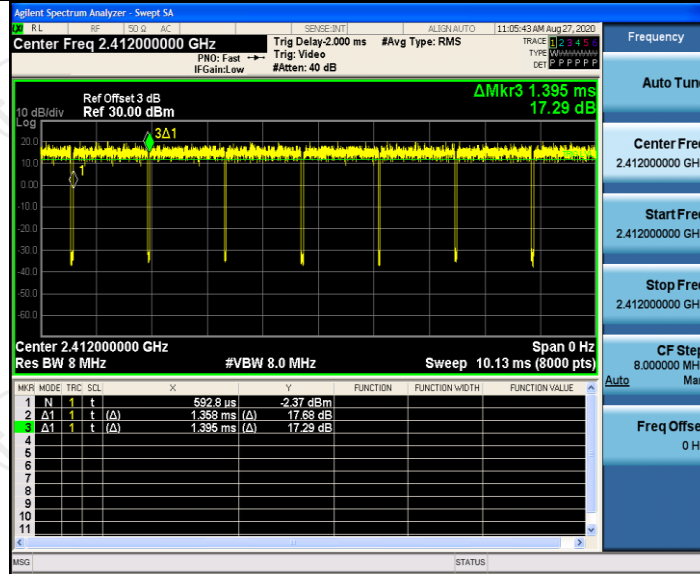
11B\_Ant1\_2437



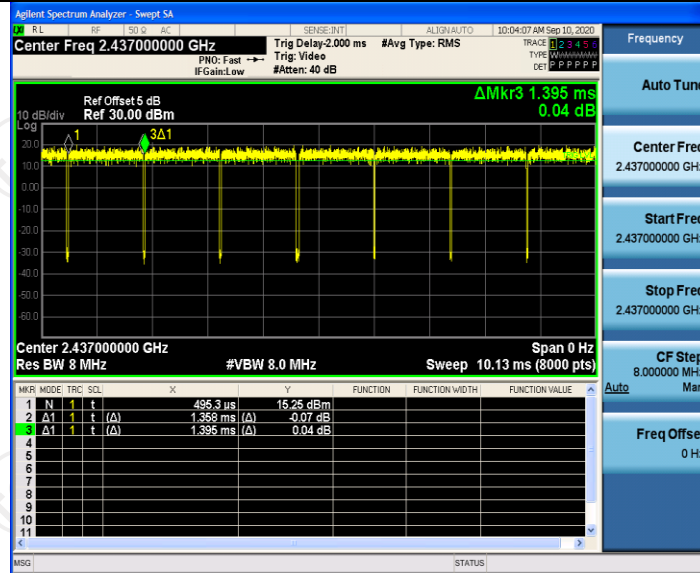
11B\_Ant1\_2462



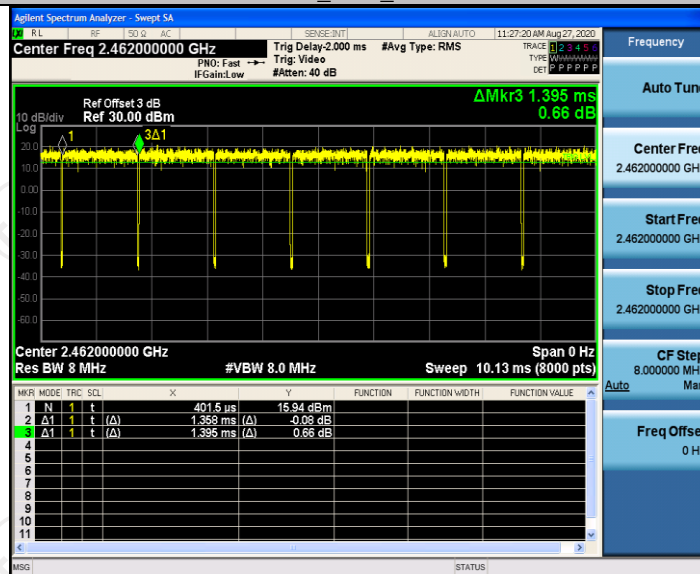
## 11G\_Ant1\_2412



## 11G\_Ant1\_2437

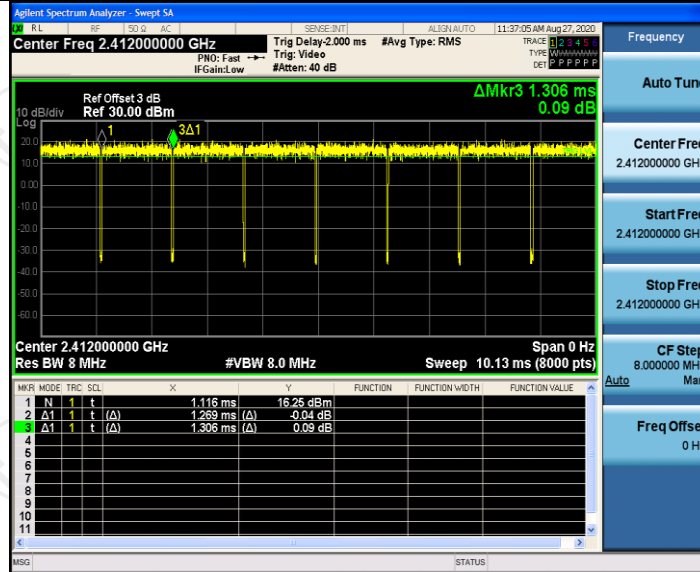


## 11G\_Ant1\_2462

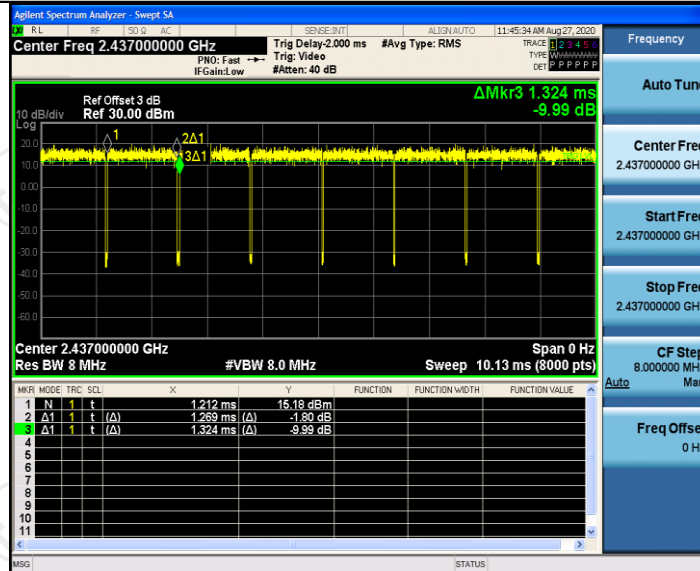


## 11N20SISO\_Ant1\_2412

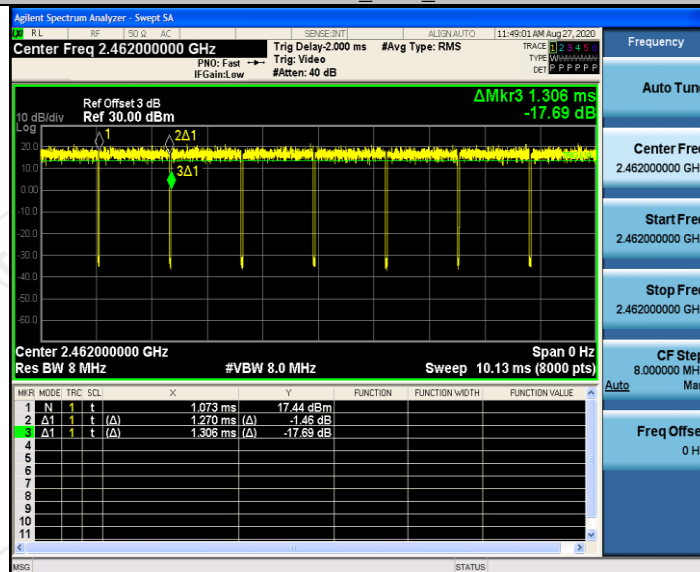




11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462





## Appendix B: Photographs of Test Setup

Refer to the test report No. TCT200819E016

## Appendix C: Photographs of EUT

Refer to the test report No. TCT200819E016

**\*\*\*\*\*END OF REPORT\*\*\*\*\***