APPENDIX REPORT

8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	21.81	33	PASS
Band II	9400	22.16	33	PASS
Band II	9538	22.27	33	PASS
Band V	4132	22.89	38.5	PASS
Band V	4182	22.79	38.5	PASS
Band V	4233	22.88	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	19.48	33	PASS
Band II	9262	HSDPA_Sub2	18.95	33	PASS
Band II	9262	HSDPA_Sub3	18.96	33	PASS
Band II	9262	HSDPA_Sub4	18.95	33	PASS
Band II	9400	HSDPA_Sub1	20.32	33	PASS
Band II	9400	HSDPA_Sub2	19.82	33	PASS
Band II	9400	HSDPA_Sub3	19.81	33	PASS
Band II	9400	HSDPA_Sub4	19.83	33	PASS
Band II	9538	HSDPA_Sub1	21.02	33	PASS
Band II	9538	HSDPA_Sub2	20.53	33	PASS
Band II	9538	HSDPA_Sub3	20.53	33	PASS
Band II	9538	HSDPA_Sub4	20.49	33	PASS
Band V	4132	HSDPA_Sub1	21.89	38.5	PASS
Band V	4132	HSDPA_Sub2	21.38	38.5	PASS
Band V	4132	HSDPA_Sub3	21.43	38.5	PASS
Band V	4132	HSDPA_Sub4	21.39	38.5	PASS
Band V	4182	HSDPA_Sub1	21.80	38.5	PASS
Band V	4182	HSDPA_Sub2	21.31	38.5	PASS
Band V	4182	HSDPA_Sub3	21.34	38.5	PASS
Band V	4182	HSDPA_Sub4	21.31	38.5	PASS
Band V	4233	HSDPA_Sub1	21.83	38.5	PASS
Band V	4233	HSDPA_Sub2	21.26	38.5	PASS
Band V	4233	HSDPA_Sub3	21.28	38.5	PASS
Band V	4233	HSDPA_Sub4	21.23	38.5	PASS

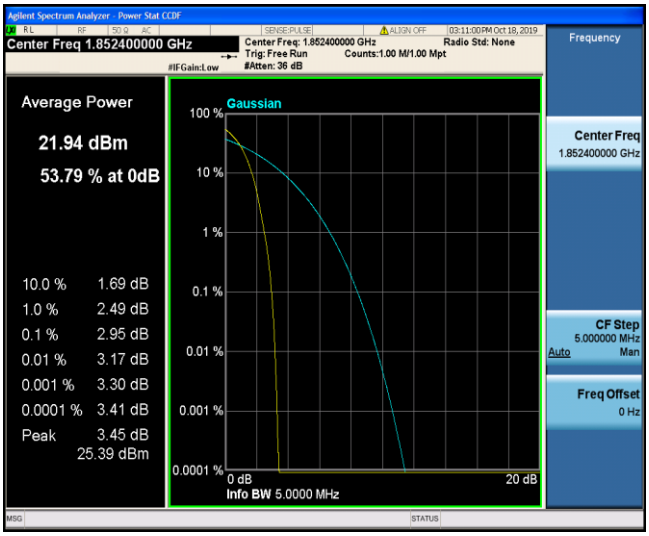
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	17.35	33	PASS
Band II	9262	HSUPA_Sub2	17.82	33	PASS
Band II	9262	HSUPA_Sub3	18.33	33	PASS
Band II	9262	HSUPA_Sub4	17.43	33	PASS
Band II	9262	HSUPA_Sub5	19.38	33	PASS
Band II	9400	HSUPA_Sub1	18.31	33	PASS
Band II	9400	HSUPA_Sub2	18.74	33	PASS
Band II	9400	HSUPA_Sub3	19.29	33	PASS
Band II	9400	HSUPA_Sub4	18.32	33	PASS
Band II	9400	HSUPA_Sub5	20.31	33	PASS
Band II	9538	HSUPA_Sub1	19.00	33	PASS
Band II	9538	HSUPA_Sub2	19.45	33	PASS
Band II	9538	HSUPA_Sub3	19.98	33	PASS
Band II	9538	HSUPA_Sub4	19.01	33	PASS
Band II	9538	HSUPA_Sub5	20.97	33	PASS
Band V	4132	HSUPA_Sub1	19.39	38.5	PASS
Band V	4132	HSUPA_Sub2	20.32	38.5	PASS
Band V	4132	HSUPA_Sub3	20.83	38.5	PASS
Band V	4132	HSUPA_Sub4	19.90	38.5	PASS
Band V	4132	HSUPA_Sub5	21.84	38.5	PASS
Band V	4182	HSUPA_Sub1	19.78	38.5	PASS
Band V	4182	HSUPA_Sub2	20.21	38.5	PASS
Band V	4182	HSUPA_Sub3	20.72	38.5	PASS
Band V	4182	HSUPA_Sub4	19.81	38.5	PASS
Band V	4182	HSUPA_Sub5	21.75	38.5	PASS
Band V	4233	HSUPA_Sub1	19.80	38.5	PASS
Band V	4233	HSUPA_Sub2	20.23	38.5	PASS
Band V	4233	HSUPA_Sub3	20.78	38.5	PASS
Band V	4233	HSUPA_Sub4	19.84	38.5	PASS
Band V	4233	HSUPA_Sub5	21.80	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

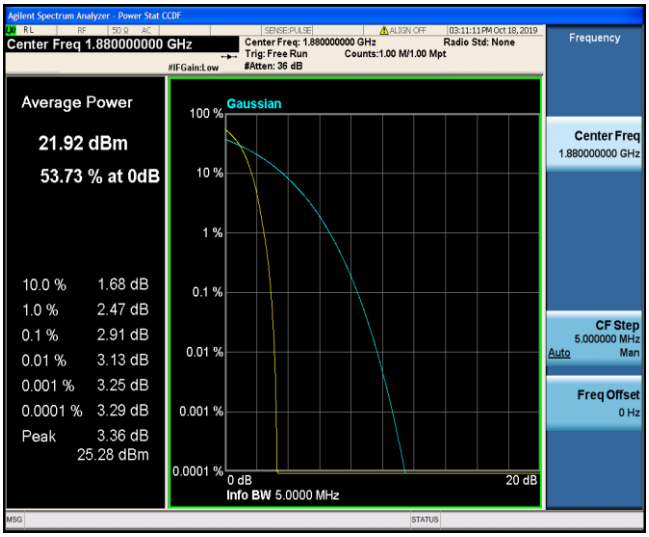
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.95	13	PASS
Band II	9400	2.91	13	PASS
Band II	9538	2.95	13	PASS
Band V	4132	2.88	13	PASS
Band V	4182	2.87	13	PASS
Band V	4233	3.04	13	PASS

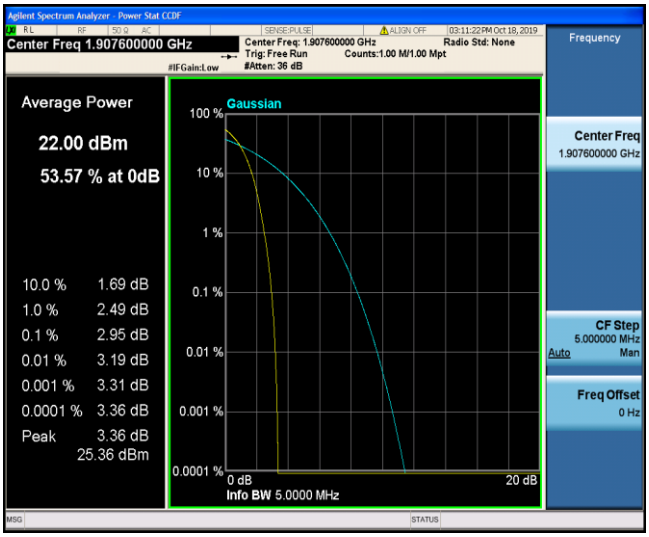
Test Graphs



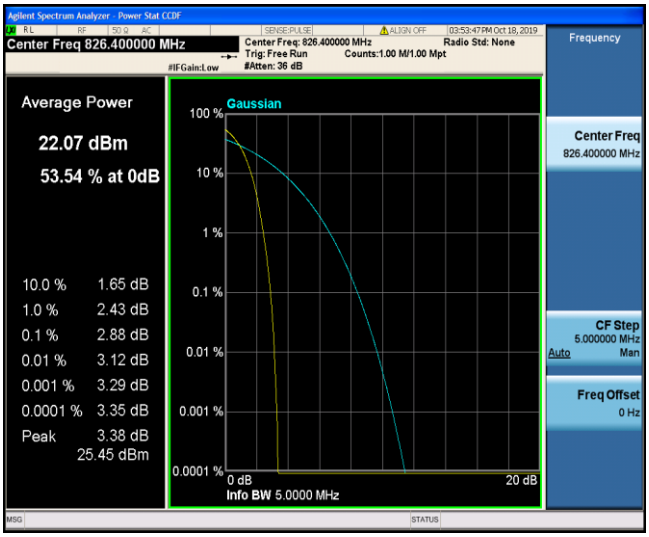
Band II_9262



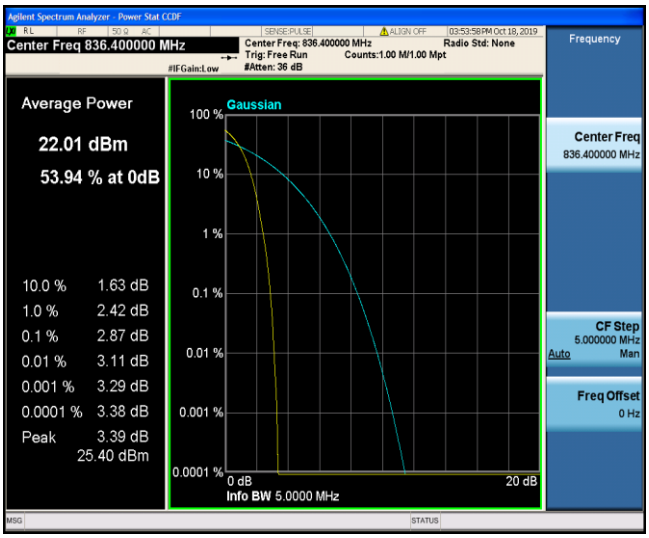
Band II_9400



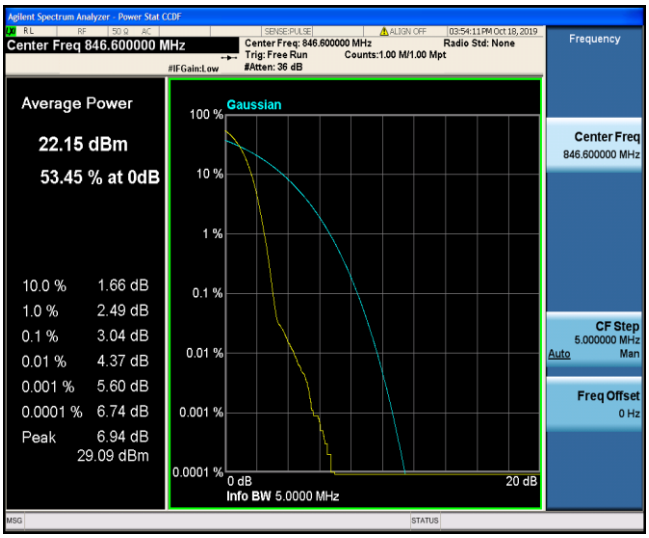
Band II_9538



Band V_4132



Band V_4182



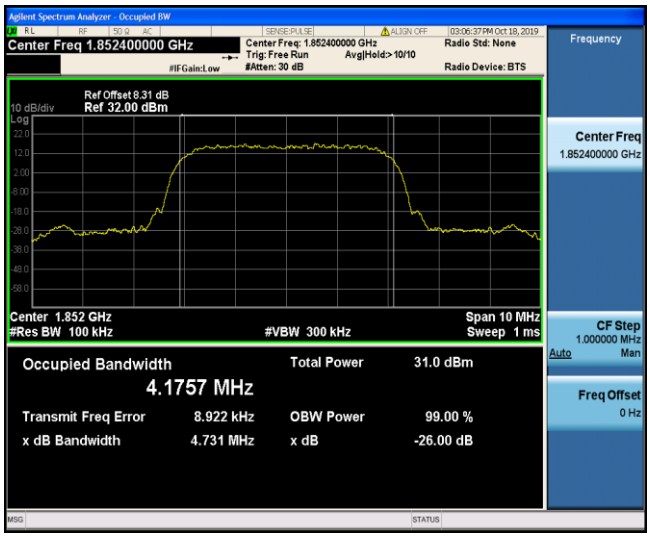
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

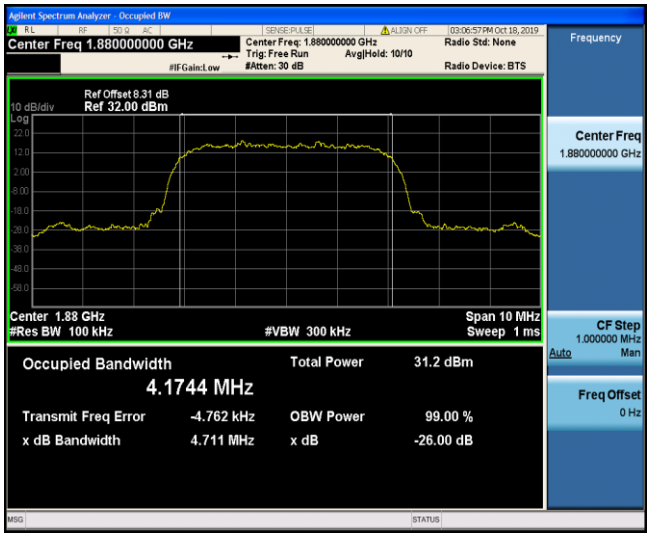
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4175.7	4731	---	PASS
Band II	9400	4174.4	4711	---	PASS
Band II	9538	4179.0	4716	---	PASS
Band V	4132	4179.5	4740	---	PASS
Band V	4182	4178.9	4723	---	PASS
Band V	4233	4194.9	4732	---	PASS

Test Graphs

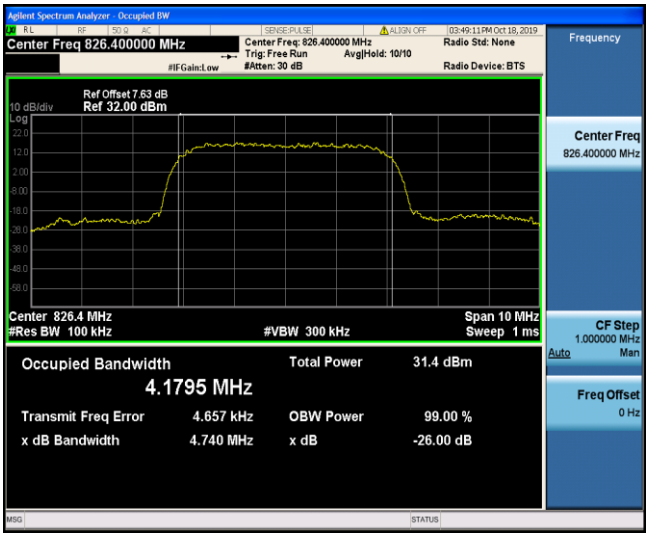


Band II_9262

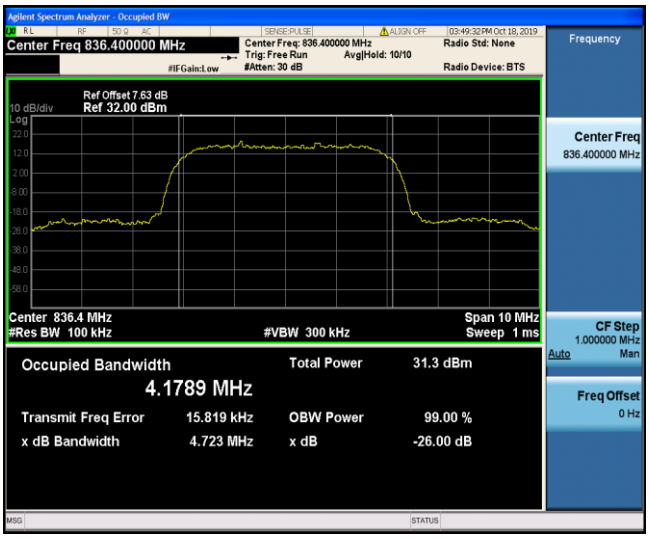


Band II_9400

Band II_9538



Band V_4132



Band V_4182

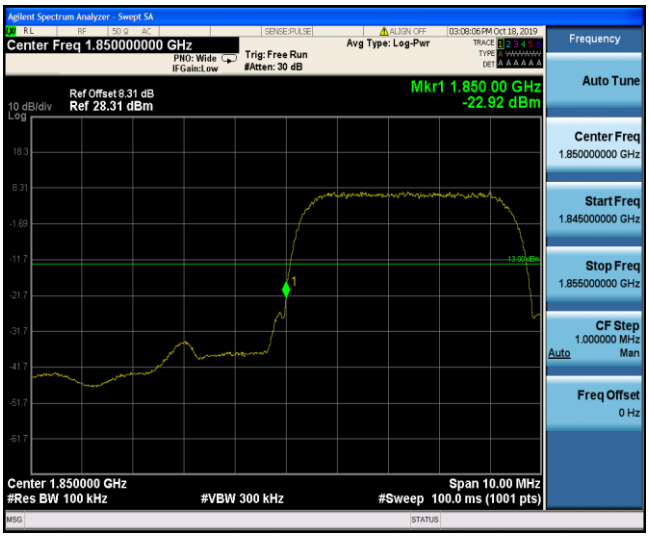
Band V_4233

8.4 Appendix D: Band Edge

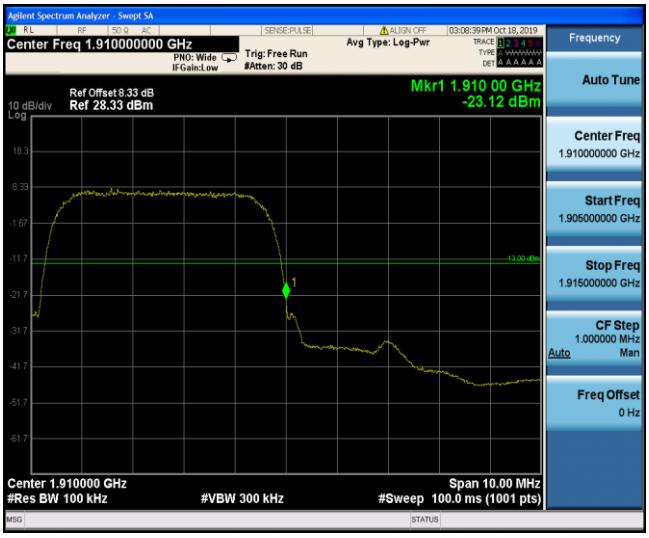
Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-22.92	-13	PASS
Band II	9538	-23.12	-13	PASS
Band V	4132	-20.86	-13	PASS
Band V	4233	-21.71	-13	PASS

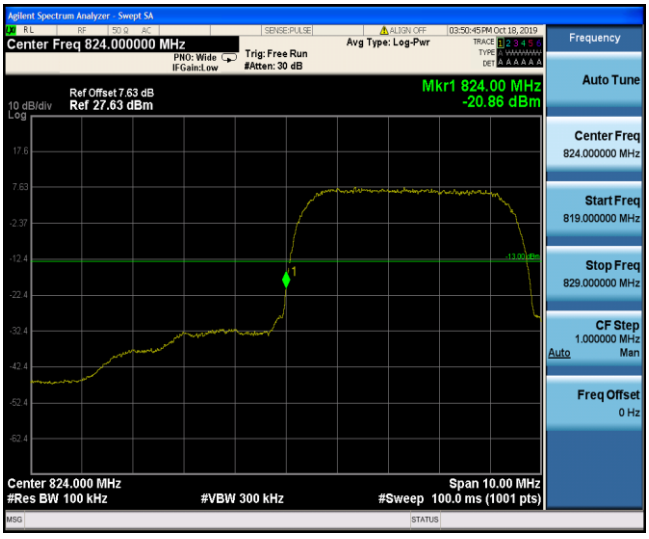
Test Graphs



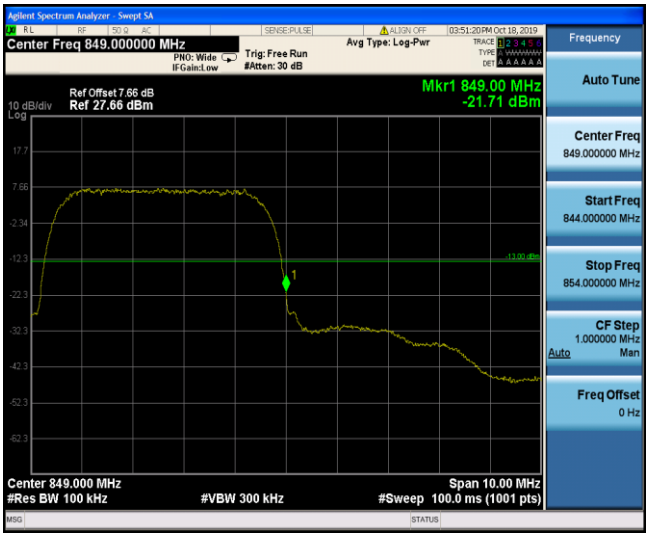
Band II_9262



Band II_9538



Band V_4132


Agilent Spectrum Analyzer - Swept SA
Center Freq 849.000000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
03:51:20 PM Oct 18, 2019
Frequency
Ref Offset 7.66 dB
10 dB/div
Log
Ref 27.66 dBm
Mkr1 849.00 MHz
-21.71 dBm
17.7
7.66
-2.34
-12.3
-22.3
-32.3
-42.3
-52.3
-62.3
-13.00 dBm
Auto Tune
Center Freq
849.000000 MHz
Start Freq
844.000000 MHz
Stop Freq
854.000000 MHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Span 10.00 MHz
#Sweep 100.0 ms (1001 pts)
MSG
STATUS

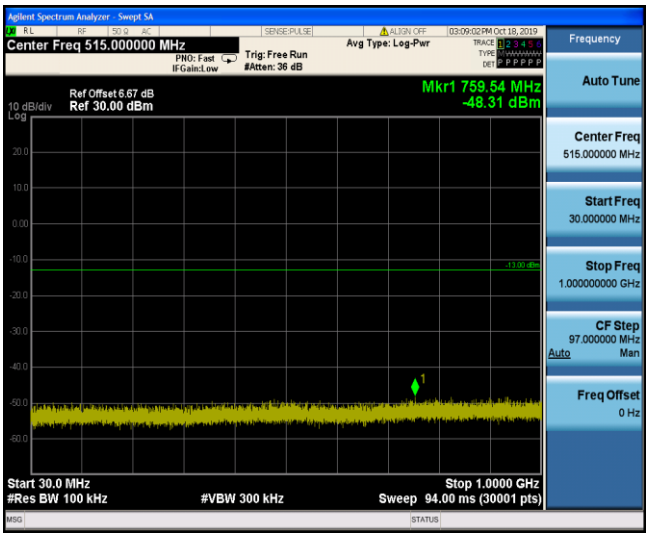
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

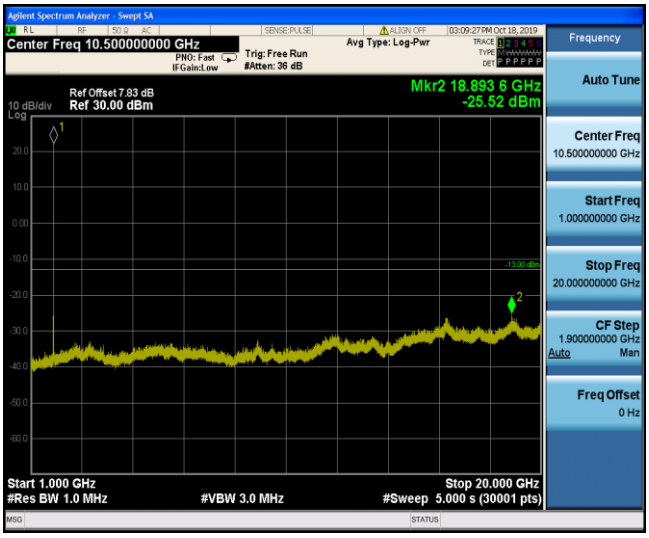
Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-48.32	-13	PASS
Band II	9262	1000~20000	-25.52	-13	PASS
Band II	9400	30~1000	-47.80	-13	PASS
Band II	9400	1000~20000	-26.23	-13	PASS
Band II	9538	30~1000	-47.24	-13	PASS
Band II	9538	1000~20000	-25.91	-13	PASS
Band V	4132	30~1000	-48.15	-13	PASS
Band V	4132	1000~10000	-32.34	-13	PASS
Band V	4182	30~1000	-48.16	-13	PASS
Band V	4182	1000~10000	-32.61	-13	PASS
Band V	4233	30~1000	-48.48	-13	PASS
Band V	4233	1000~10000	-32.90	-13	PASS

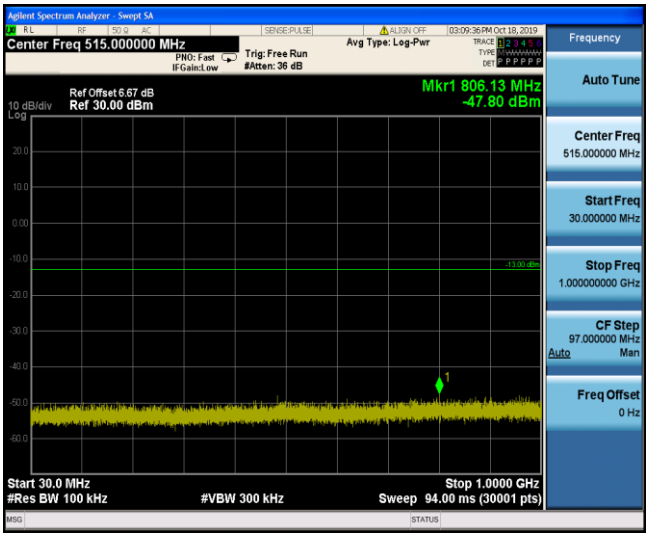
Test Graphs



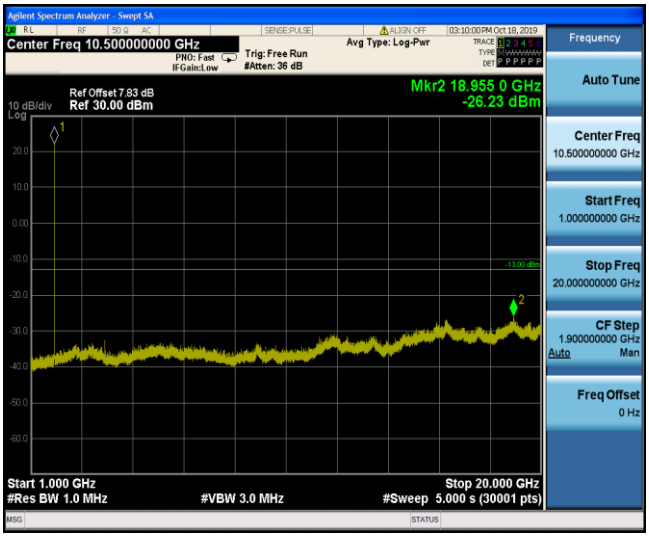
Band II_9262



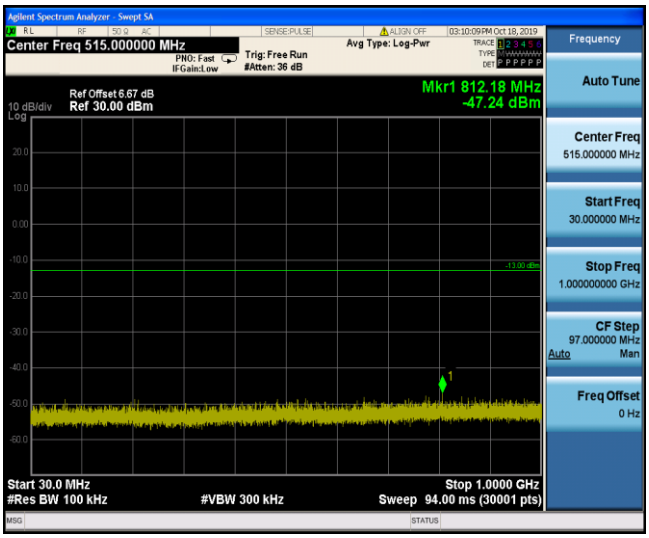
Band II_9262



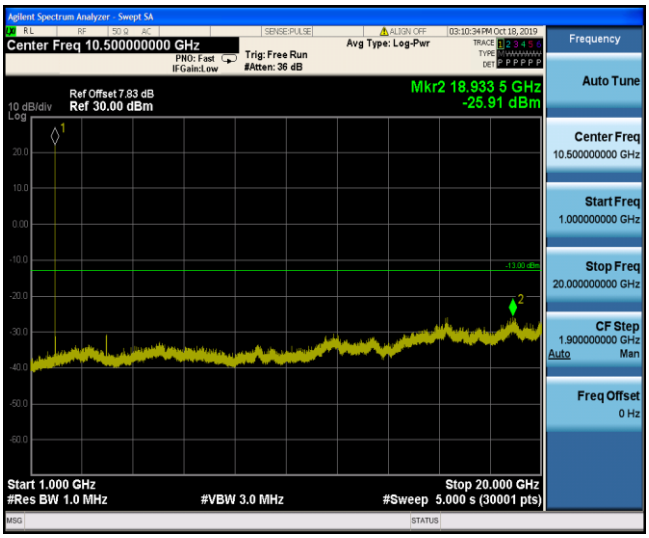
Band II_9400



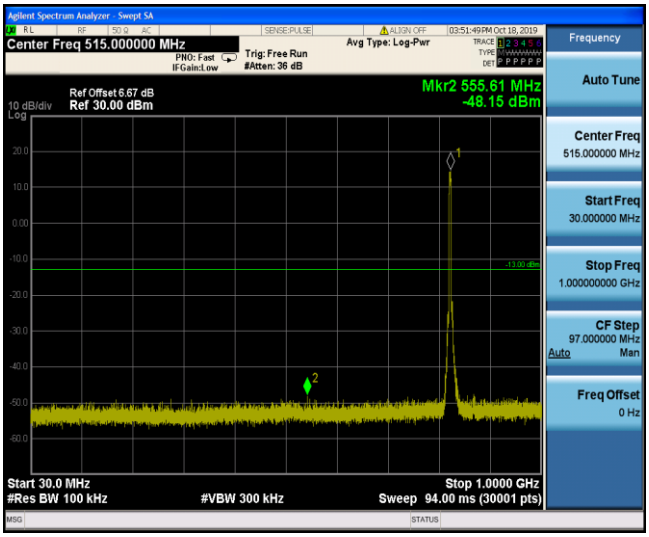
Band II_9400



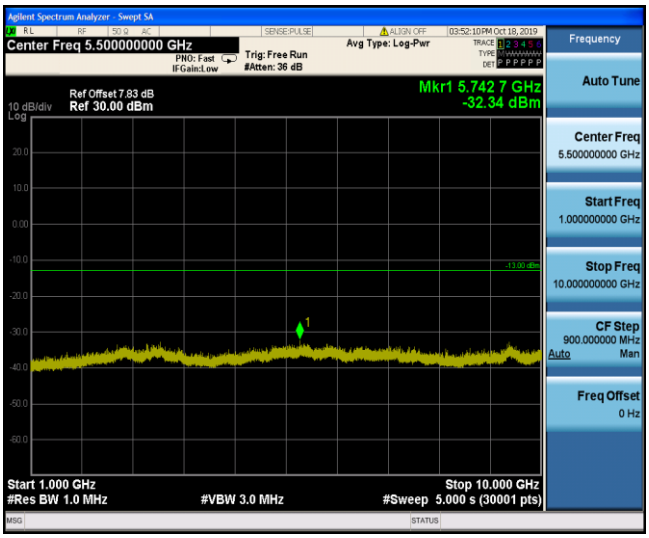
Band II_9538



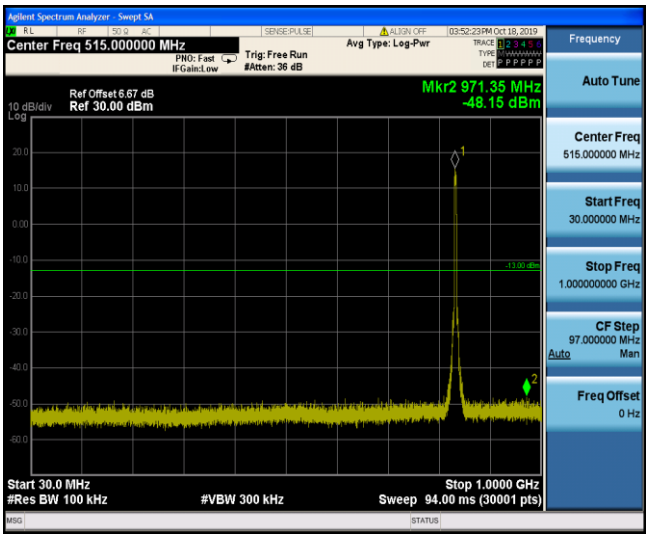
Band II_9538



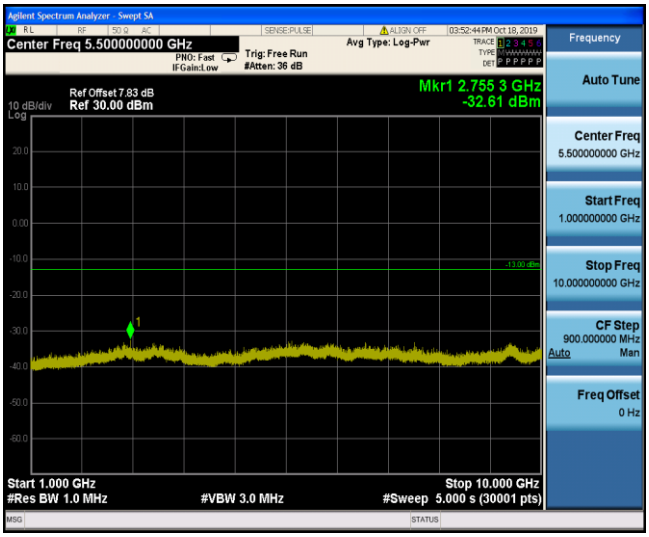
Band V_4132



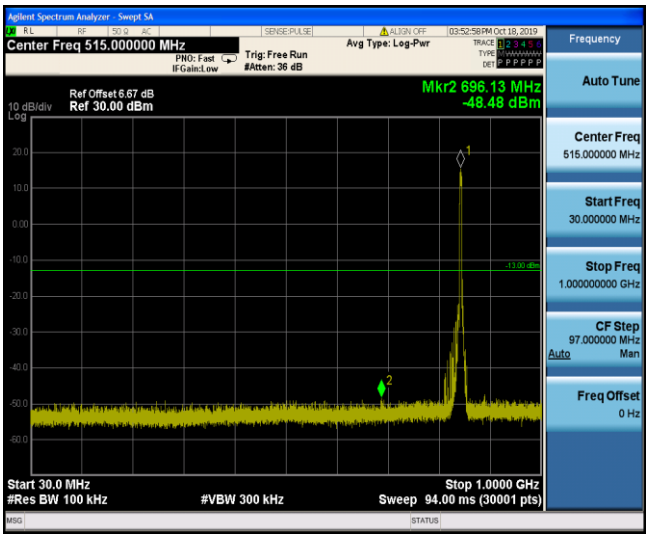
Band V_4132



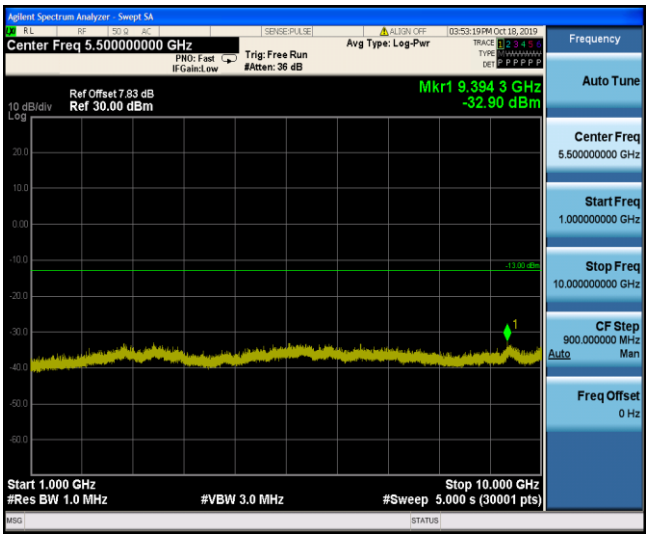
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-6.94	-0.003745	2.5	PASS
Band II	9262	VN	TN	-8.08	-0.004359	2.5	PASS
Band II	9262	VH	TN	-4.01	-0.002162	2.5	PASS
Band II	9400	VL	TN	-8.28	-0.004402	2.5	PASS
Band II	9400	VN	TN	-5.04	-0.002678	2.5	PASS
Band II	9400	VH	TN	-6.31	-0.003356	2.5	PASS
Band II	9538	VL	TN	-10.89	-0.005707	2.5	PASS
Band II	9538	VN	TN	-14.89	-0.007806	2.5	PASS
Band II	9538	VH	TN	-15.81	-0.008286	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-11.00	-0.005939	2.5	PASS
Band II	9262	VN	-20	-3.45	-0.001865	2.5	PASS
Band II	9262	VN	-10	-7.94	-0.004286	2.5	PASS
Band II	9262	VN	0	-5.72	-0.003089	2.5	PASS
Band II	9262	VN	10	-3.88	-0.002093	2.5	PASS
Band II	9262	VN	20	-4.78	-0.002579	2.5	PASS
Band II	9262	VN	30	-12.53	-0.006765	2.5	PASS
Band II	9262	VN	40	-12.50	-0.006746	2.5	PASS
Band II	9262	VN	50	-10.58	-0.005711	2.5	PASS
Band II	9400	VN	-30	-6.62	-0.003519	2.5	PASS
Band II	9400	VN	-20	-3.28	-0.001746	2.5	PASS
Band II	9400	VN	-10	-15.59	-0.008290	2.5	PASS
Band II	9400	VN	0	-9.96	-0.005296	2.5	PASS
Band II	9400	VN	10	-13.38	-0.007118	2.5	PASS
Band II	9400	VN	20	-9.54	-0.005075	2.5	PASS
Band II	9400	VN	30	-9.69	-0.005155	2.5	PASS
Band II	9400	VN	40	-9.48	-0.005041	2.5	PASS
Band II	9400	VN	50	-8.22	-0.004371	2.5	PASS
Band II	9538	VN	-30	-6.35	-0.003330	2.5	PASS
Band II	9538	VN	-20	-7.14	-0.003742	2.5	PASS
Band II	9538	VN	-10	-13.36	-0.007004	2.5	PASS
Band II	9538	VN	0	-11.51	-0.006033	2.5	PASS
Band II	9538	VN	10	-13.19	-0.006914	2.5	PASS
Band II	9538	VN	20	-15.51	-0.008133	2.5	PASS
Band II	9538	VN	30	-8.61	-0.004514	2.5	PASS
Band II	9538	VN	40	-12.57	-0.006588	2.5	PASS
Band II	9538	VN	50	-7.39	-0.003873	2.5	PASS

----------End of the Report ----------