

## Appendix A: Conducted Output Power

### Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	23.46	33	PASS
Band II	9400	23.68	33	PASS
Band II	9538	23.79	33	PASS
Band IV	1312	23.48	30	PASS
Band IV	1413	23.37	30	PASS
Band IV	1513	23.31	30	PASS
Band V	4132	23.06	38.5	PASS
Band V	4182	22.88	38.5	PASS
Band V	4233	23.00	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub0	22.50	33	PASS
Band II	9262	HSDPA_Sub1	21.85	33	PASS
Band II	9262	HSDPA_Sub2	22.01	33	PASS
Band II	9262	HSDPA_Sub3	21.74	33	PASS
Band II	9400	HSDPA_Sub0	22.56	33	PASS
Band II	9400	HSDPA_Sub1	21.92	33	PASS
Band II	9400	HSDPA_Sub2	21.89	33	PASS
Band II	9400	HSDPA_Sub3	21.84	33	PASS
Band II	9538	HSDPA_Sub0	22.58	33	PASS
Band II	9538	HSDPA_Sub1	21.84	33	PASS
Band II	9538	HSDPA_Sub2	21.84	33	PASS
Band II	9538	HSDPA_Sub3	21.82	33	PASS
Band IV	1312	HSDPA_Sub0	23.41	30	PASS
Band IV	1312	HSDPA_Sub1	22.69	30	PASS
Band IV	1312	HSDPA_Sub2	22.69	30	PASS
Band IV	1312	HSDPA_Sub3	22.76	30	PASS
Band IV	1413	HSDPA_Sub0	23.33	30	PASS
Band IV	1413	HSDPA_Sub1	22.58	30	PASS
Band IV	1413	HSDPA_Sub2	22.67	30	PASS
Band IV	1413	HSDPA_Sub3	22.51	30	PASS
Band IV	1513	HSDPA_Sub0	23.14	30	PASS
Band IV	1513	HSDPA_Sub1	22.48	30	PASS
Band IV	1513	HSDPA_Sub2	22.46	30	PASS
Band IV	1513	HSDPA_Sub3	22.37	30	PASS
Band V	4132	HSDPA_Sub0	23.03	38.5	PASS

Band V	4132	HSDPA_Sub1	22.98	38.5	PASS
Band V	4132	HSDPA_Sub2	23.01	38.5	PASS
Band V	4132	HSDPA_Sub3	22.91	38.5	PASS
Band V	4182	HSDPA_Sub0	22.78	38.5	PASS
Band V	4182	HSDPA_Sub1	22.81	38.5	PASS
Band V	4182	HSDPA_Sub2	22.89	38.5	PASS
Band V	4182	HSDPA_Sub3	22.86	38.5	PASS
Band V	4233	HSDPA_Sub0	23.01	38.5	PASS
Band V	4233	HSDPA_Sub1	22.97	38.5	PASS
Band V	4233	HSDPA_Sub2	22.84	38.5	PASS
Band V	4233	HSDPA_Sub3	23.02	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	19.04	33	PASS
Band II	9262	HSUPA_Sub2	19.38	33	PASS
Band II	9262	HSUPA_Sub3	20.04	33	PASS
Band II	9262	HSUPA_Sub4	18.74	33	PASS
Band II	9262	HSUPA_Sub5	18.37	33	PASS
Band II	9400	HSUPA_Sub1	19.23	33	PASS
Band II	9400	HSUPA_Sub2	19.53	33	PASS
Band II	9400	HSUPA_Sub3	20.25	33	PASS
Band II	9400	HSUPA_Sub4	18.98	33	PASS
Band II	9400	HSUPA_Sub5	18.57	33	PASS
Band II	9538	HSUPA_Sub1	19.38	33	PASS
Band II	9538	HSUPA_Sub2	19.77	33	PASS
Band II	9538	HSUPA_Sub3	20.46	33	PASS
Band II	9538	HSUPA_Sub4	19.27	33	PASS
Band II	9538	HSUPA_Sub5	18.67	33	PASS
Band IV	1312	HSUPA_Sub1	21.25	30	PASS
Band IV	1312	HSUPA_Sub2	21.44	30	PASS
Band IV	1312	HSUPA_Sub3	22.26	30	PASS
Band IV	1312	HSUPA_Sub4	20.88	30	PASS
Band IV	1312	HSUPA_Sub5	20.37	30	PASS
Band IV	1413	HSUPA_Sub1	21.08	30	PASS
Band IV	1413	HSUPA_Sub2	21.21	30	PASS
Band IV	1413	HSUPA_Sub3	22.09	30	PASS
Band IV	1413	HSUPA_Sub4	20.76	30	PASS
Band IV	1413	HSUPA_Sub5	20.24	30	PASS
Band IV	1513	HSUPA_Sub1	20.87	30	PASS
Band IV	1513	HSUPA_Sub2	21.05	30	PASS
Band IV	1513	HSUPA_Sub3	21.88	30	PASS
Band IV	1513	HSUPA_Sub4	20.34	30	PASS

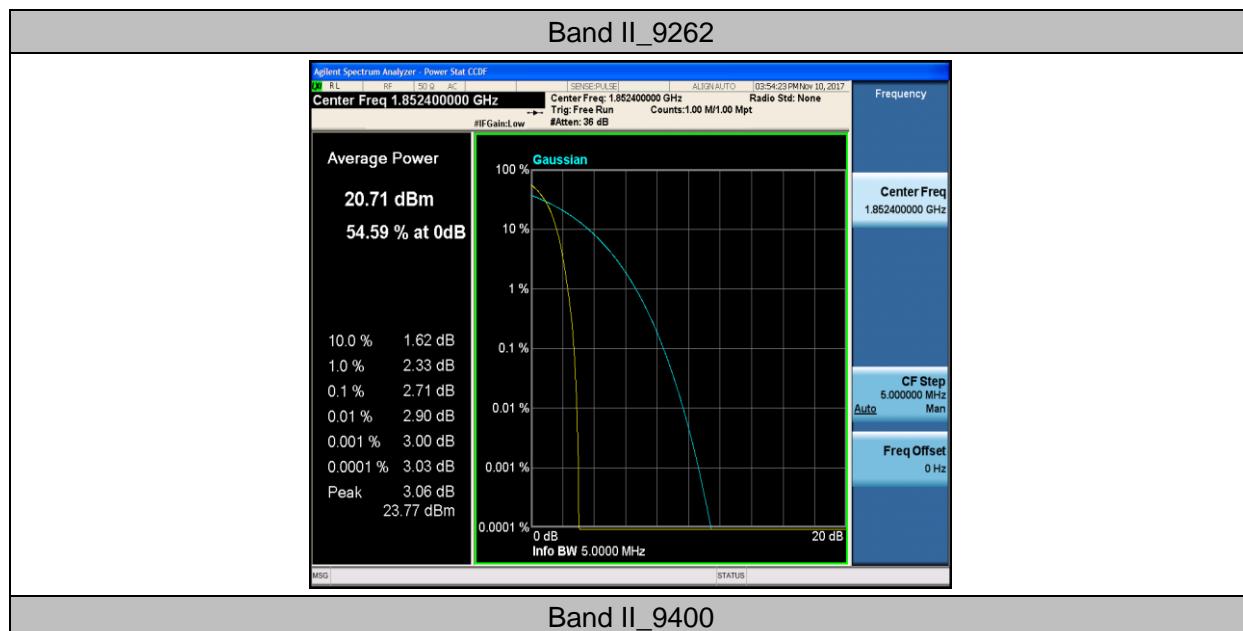
Band IV	1513	HSUPA_Sub5	20.08	30	PASS
Band V	4132	HSUPA_Sub1	22.07	38.5	PASS
Band V	4132	HSUPA_Sub2	22.03	38.5	PASS
Band V	4132	HSUPA_Sub3	22.12	38.5	PASS
Band V	4132	HSUPA_Sub4	21.47	38.5	PASS
Band V	4132	HSUPA_Sub5	20.95	38.5	PASS
Band V	4182	HSUPA_Sub1	21.96	38.5	PASS
Band V	4182	HSUPA_Sub2	21.95	38.5	PASS
Band V	4182	HSUPA_Sub3	21.97	38.5	PASS
Band V	4182	HSUPA_Sub4	21.39	38.5	PASS
Band V	4182	HSUPA_Sub5	21.14	38.5	PASS
Band V	4233	HSUPA_Sub1	22.09	38.5	PASS
Band V	4233	HSUPA_Sub2	22.08	38.5	PASS
Band V	4233	HSUPA_Sub3	22.14	38.5	PASS
Band V	4233	HSUPA_Sub4	21.47	38.5	PASS
Band V	4233	HSUPA_Sub5	21.20	38.5	PASS

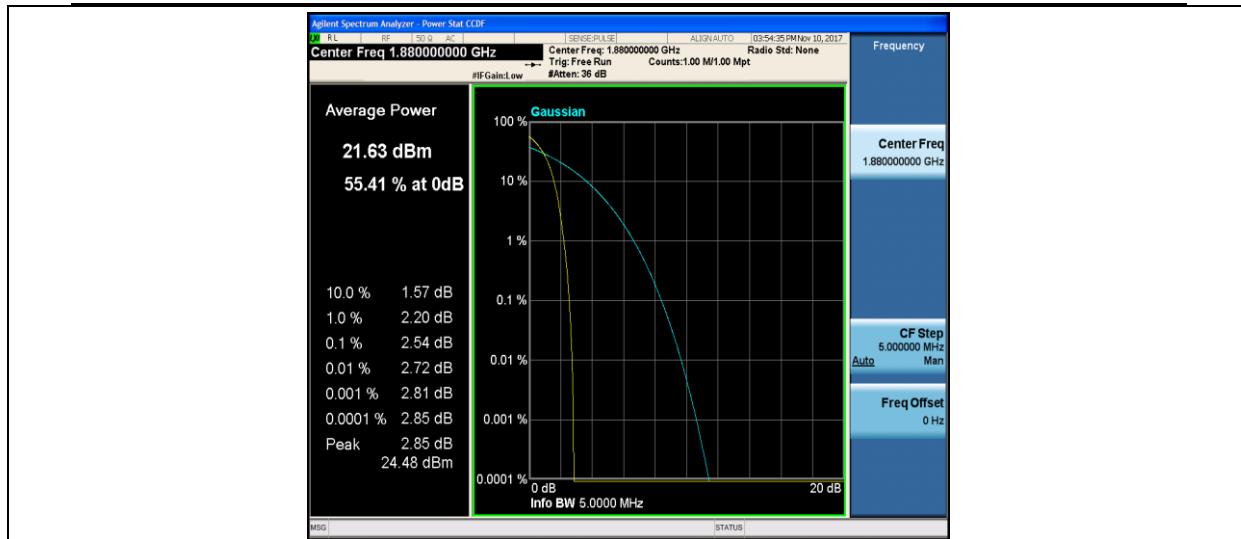
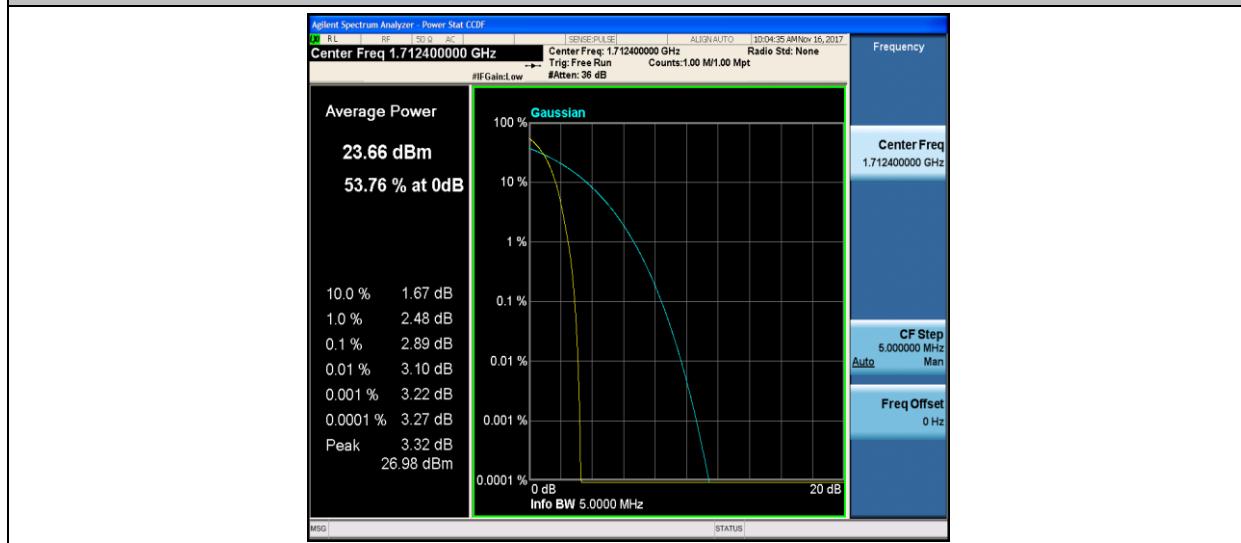
## Appendix B: Peak-to-Average Ratio

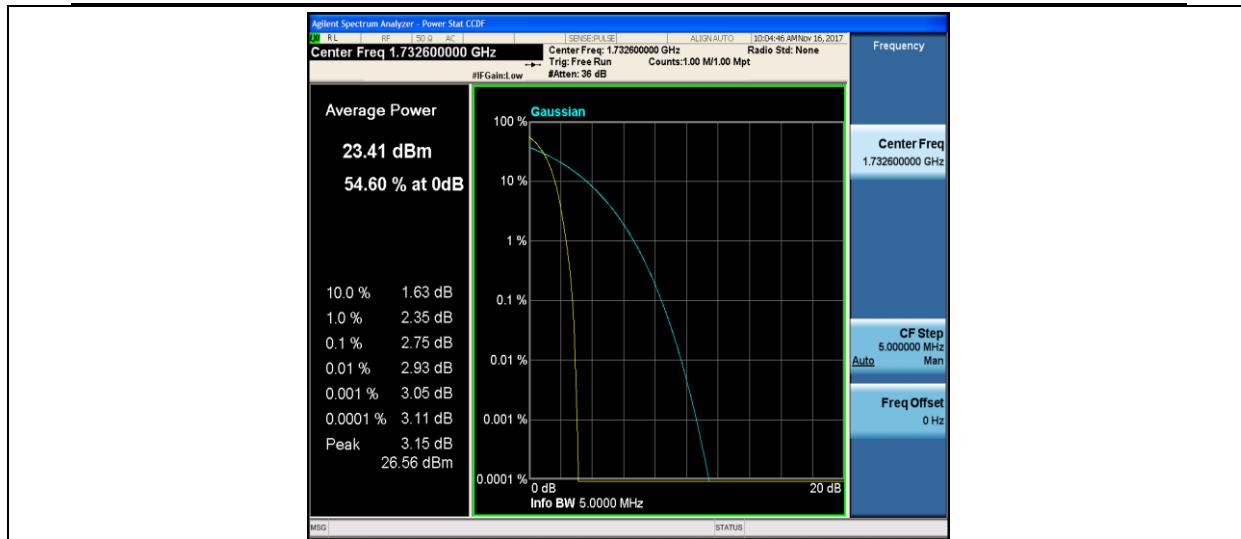
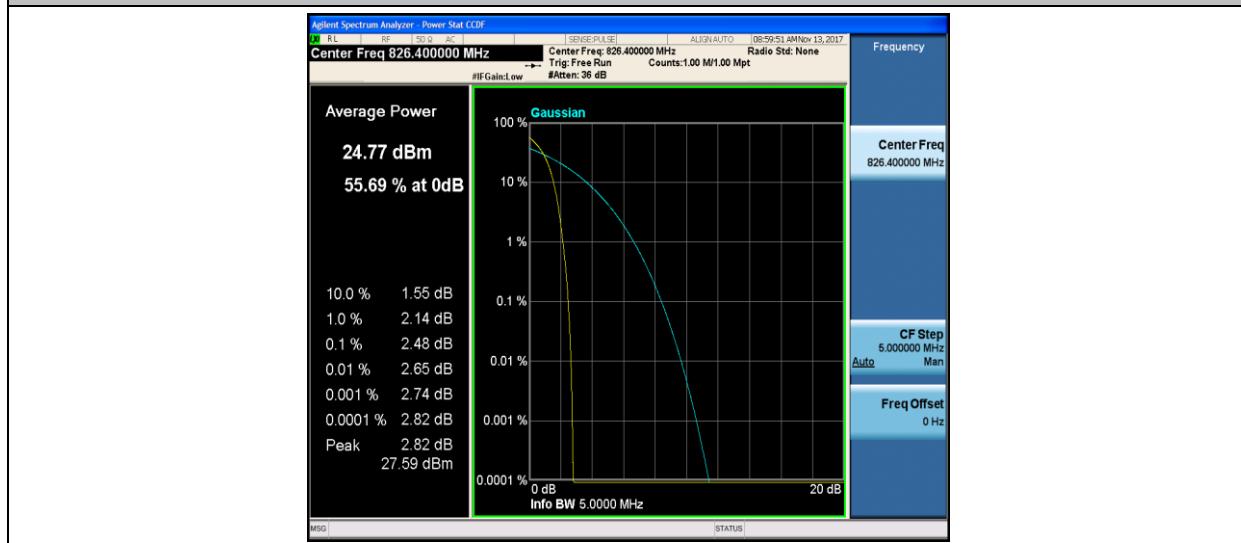
### Test Result

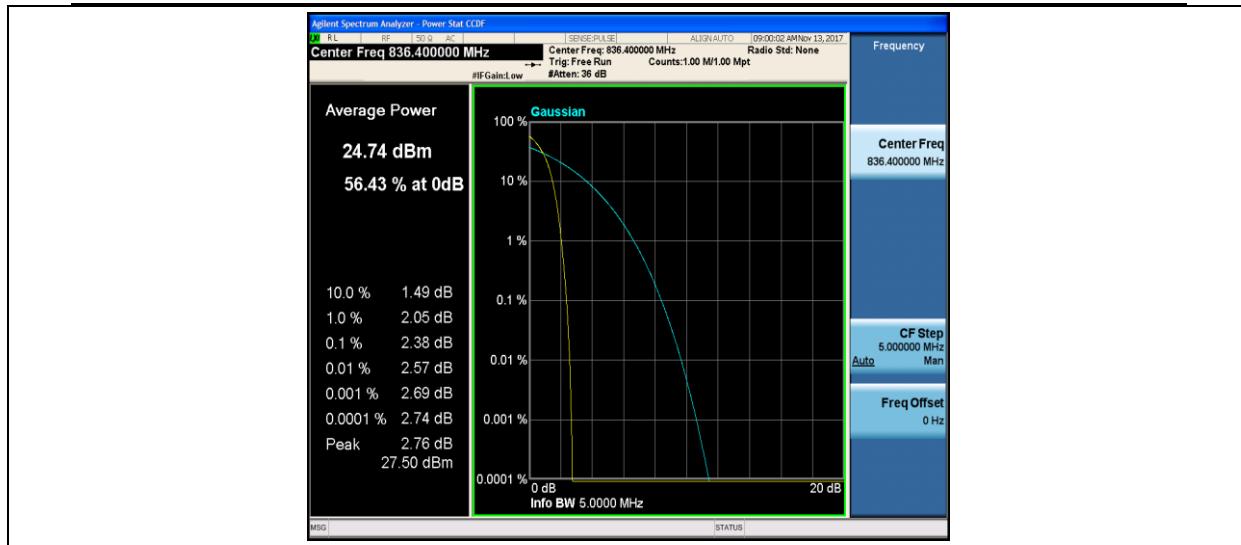
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	2.71	13	PASS
Band II	9400	2.54	13	PASS
Band II	9538	2.83	13	PASS
Band IV	1312	2.89	13	PASS
Band IV	1413	2.75	13	PASS
Band IV	1513	2.94	13	PASS
Band V	4132	2.48	13	PASS
Band V	4182	2.38	13	PASS
Band V	4233	2.72	13	PASS

### Test Graphs



**Band II\_9538****Band IV\_1312****Band IV\_1413**

**Band IV\_1513****Band V\_4132****Band V\_4182**



### Band V\_4233

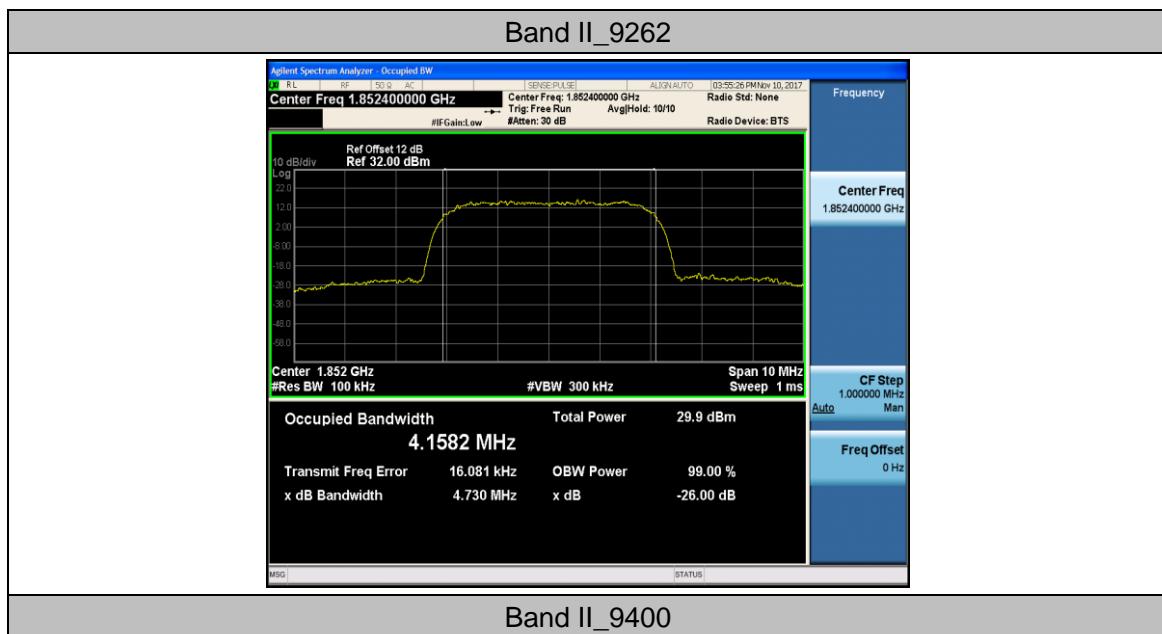


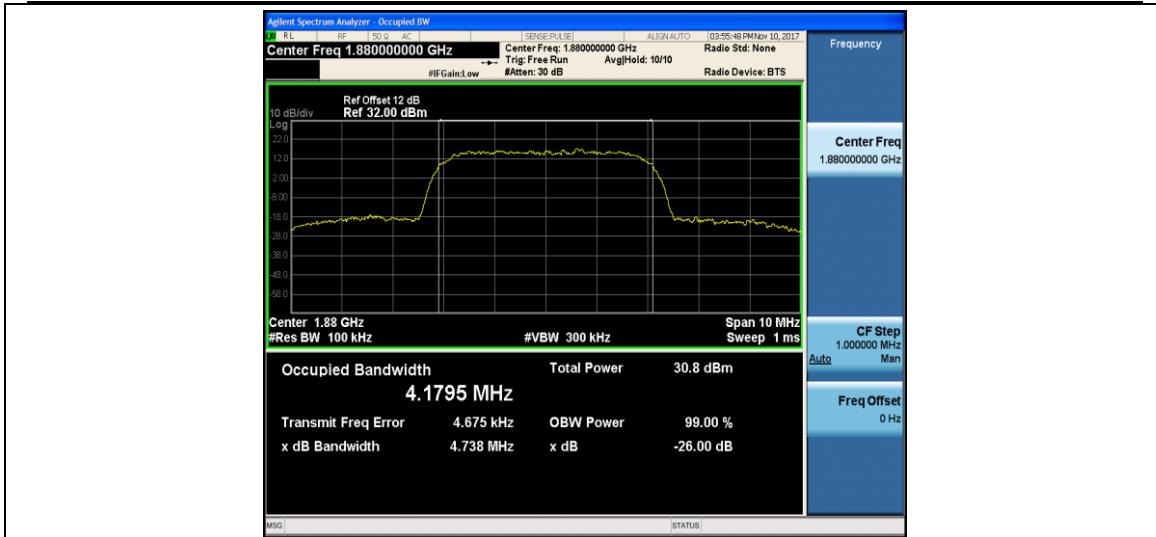
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

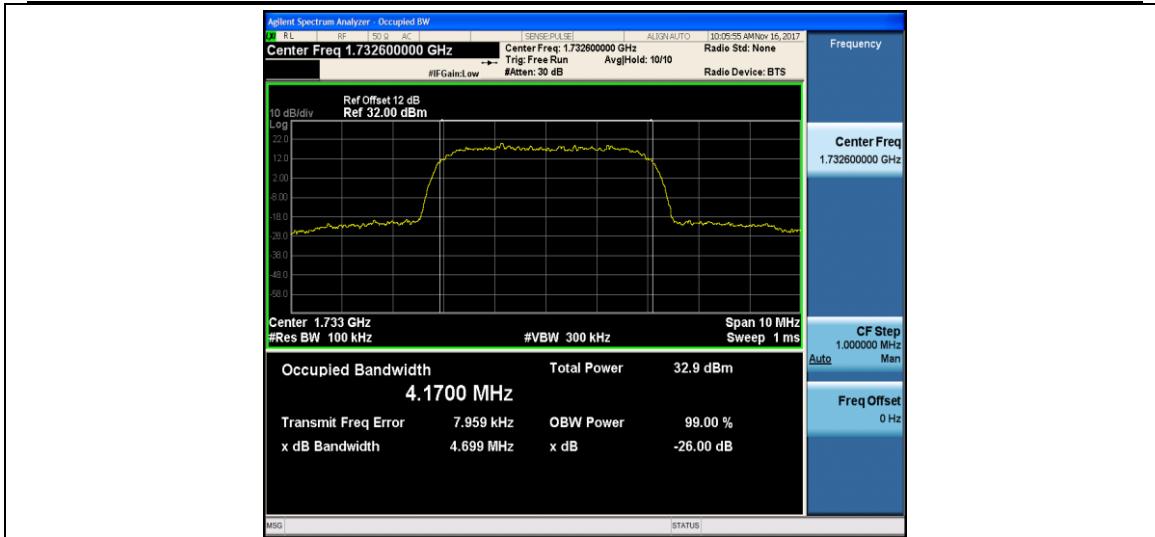
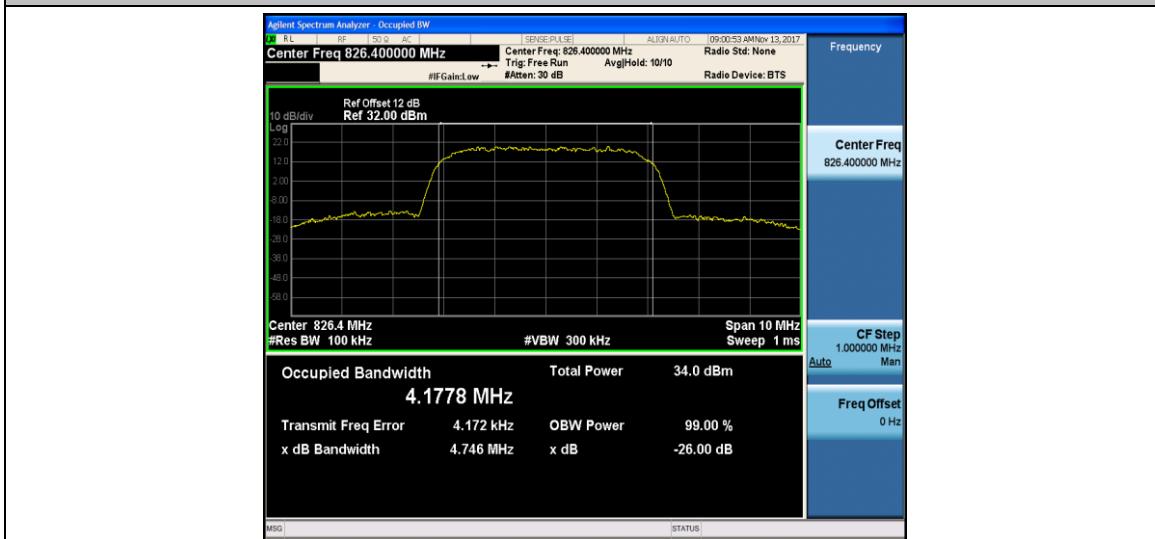
### Test Result

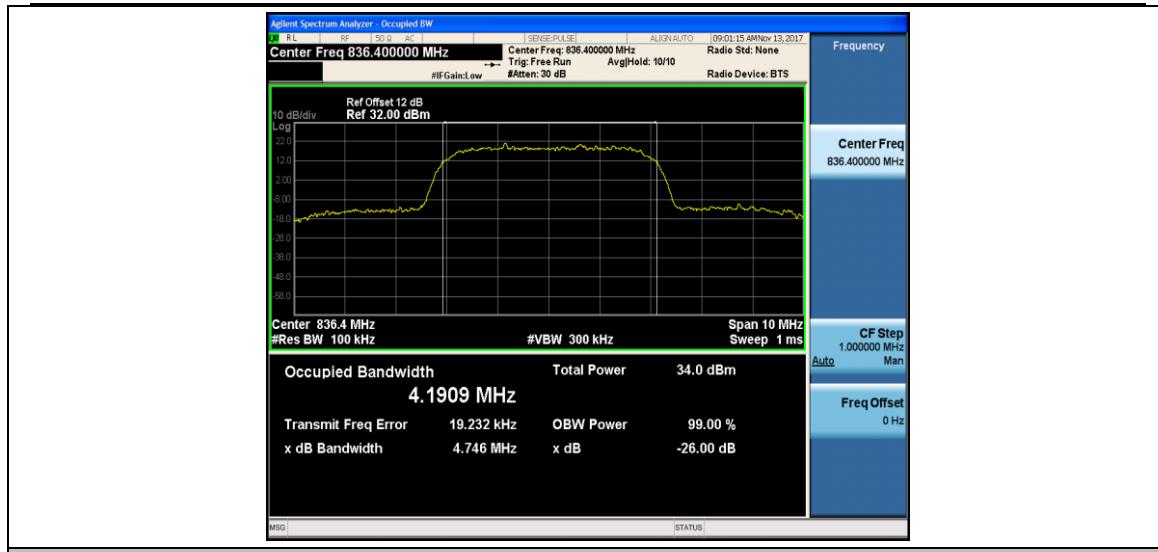
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4158.2	4730	---	PASS
Band II	9400	4179.5	4738	---	PASS
Band II	9538	4157.7	4710	---	PASS
Band IV	1312	4167.7	4697	---	PASS
Band IV	1413	4170.0	4699	---	PASS
Band IV	1513	4159.8	4712	---	PASS
Band V	4132	4177.8	4746	---	PASS
Band V	4182	4190.9	4746	---	PASS
Band V	4233	4175.3	4720	---	PASS

### Test Graphs



**Band II\_9538****Band IV\_1312****Band IV\_1413**

**Band IV\_1513****Band V\_4132****Band V\_4182**



### Band V\_4233

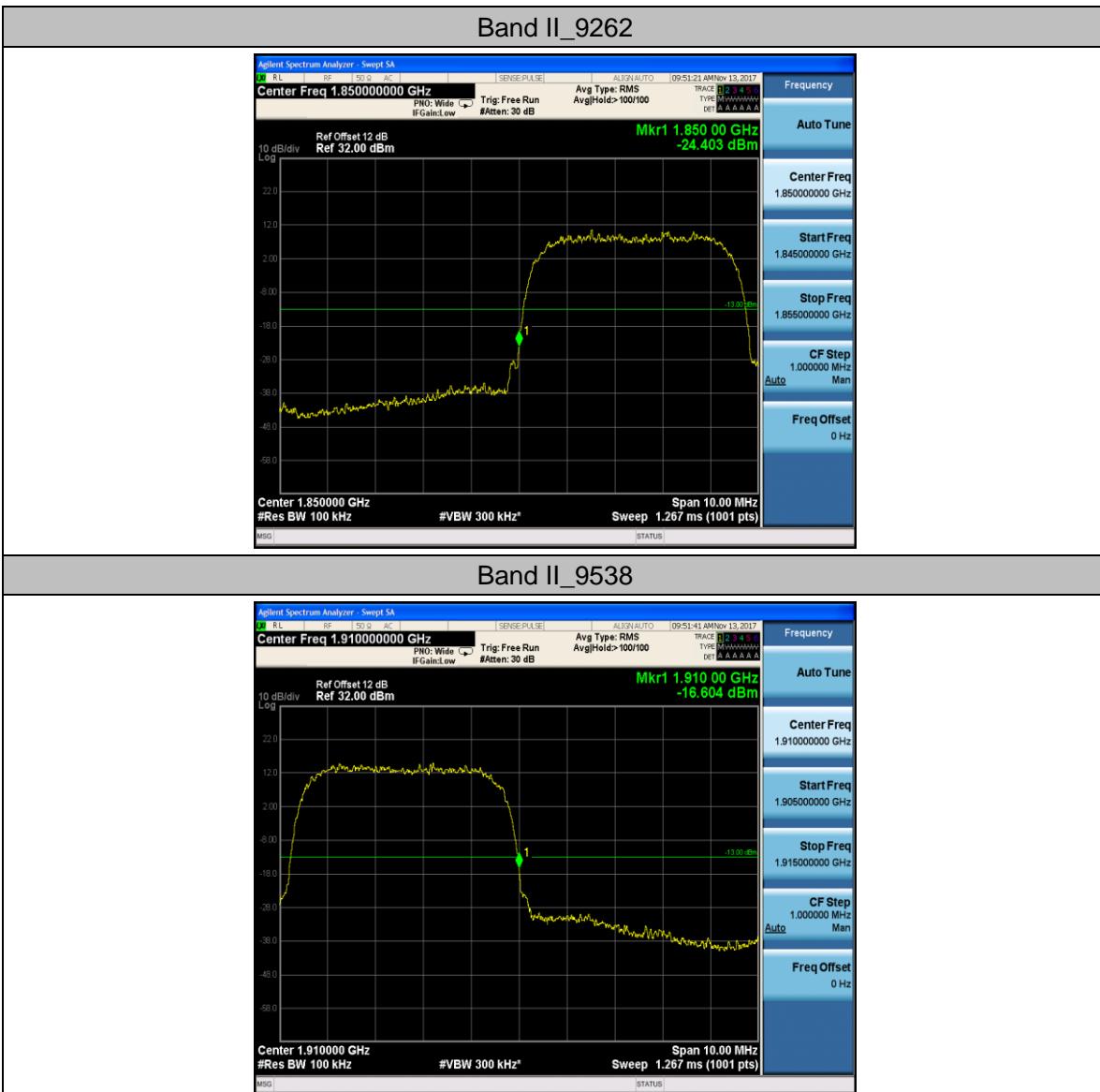


## Appendix D: Band Edge

### Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-24.40	-13	PASS
Band II	9538	-16.60	-13	PASS
Band IV	1312	-15.87	-13	PASS
Band IV	1513	-14.67	-13	PASS
Band V	4132	-15.50	-13	PASS
Band V	4233	-13.25	-13	PASS

### Test Graphs



## Band IV\_1312



## Band IV\_1513



## Band V\_4132



## Band V\_4233

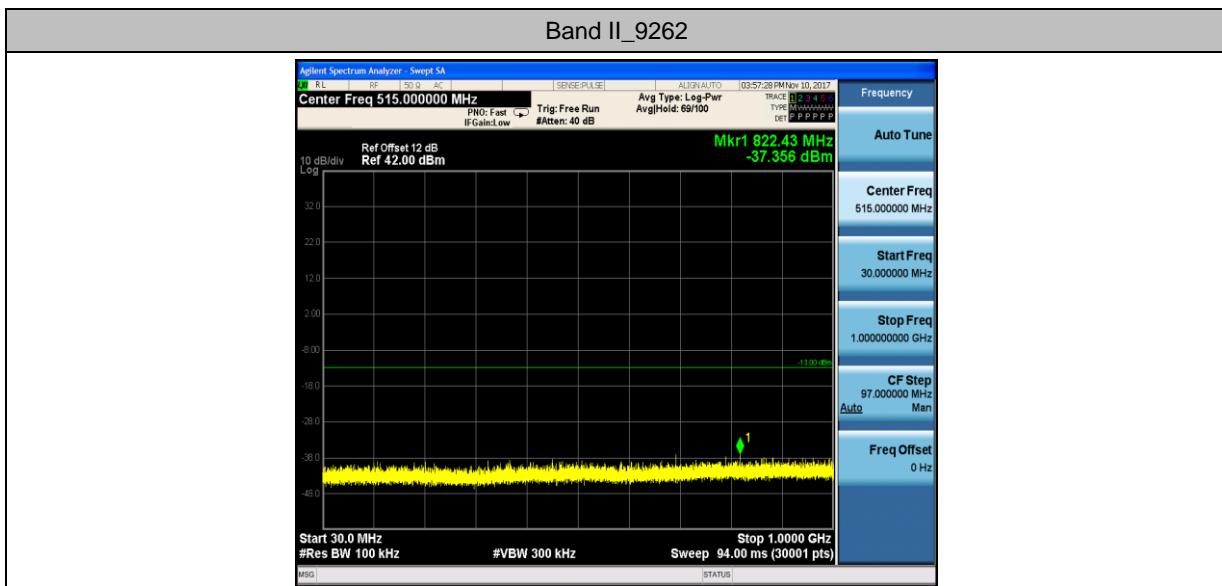


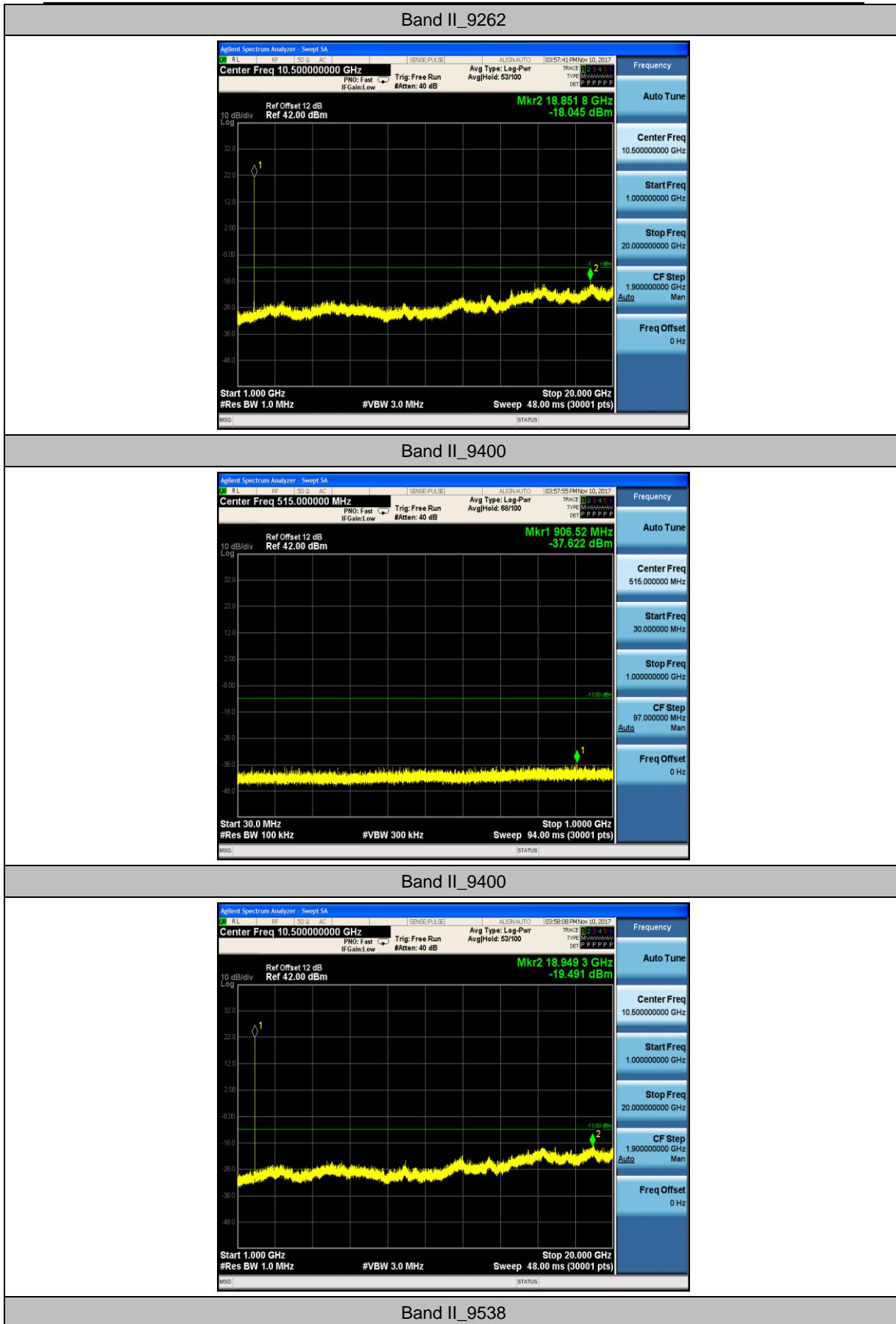
## Appendix E: Conducted Spurious Emission

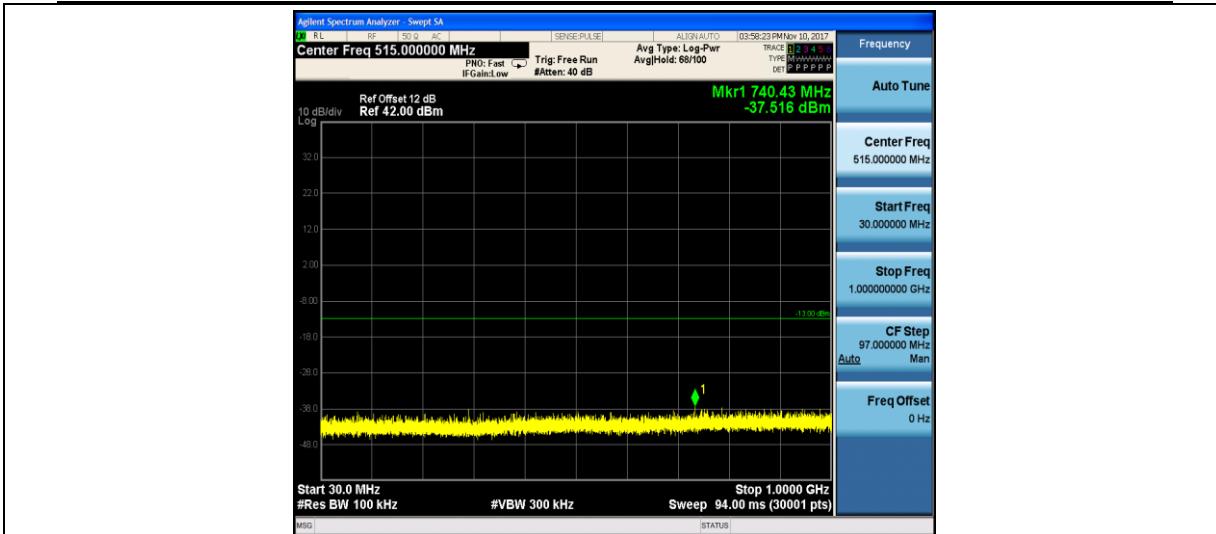
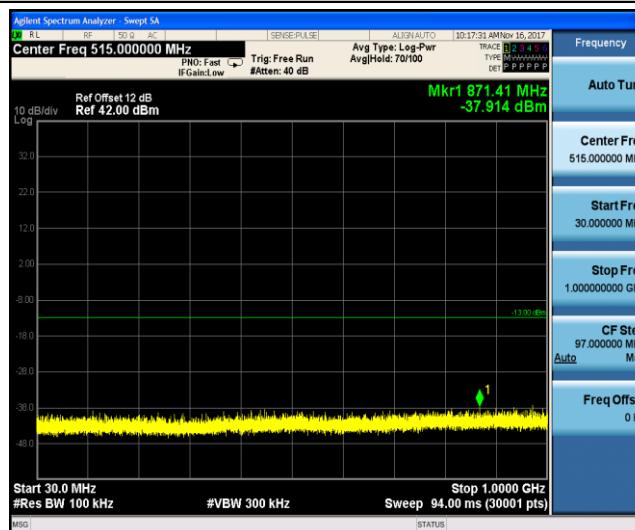
### Test Result

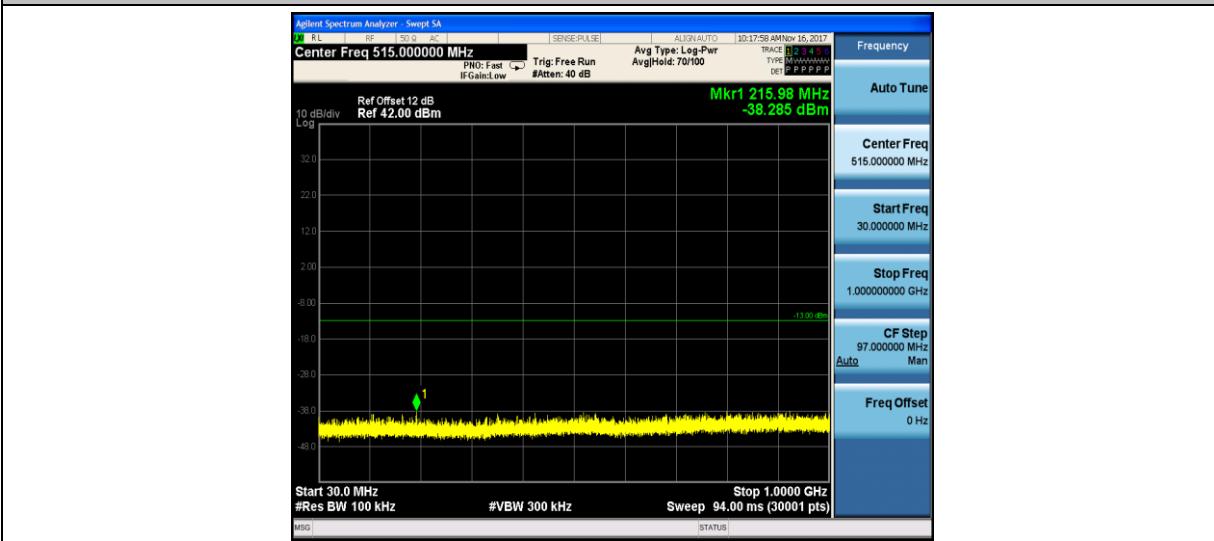
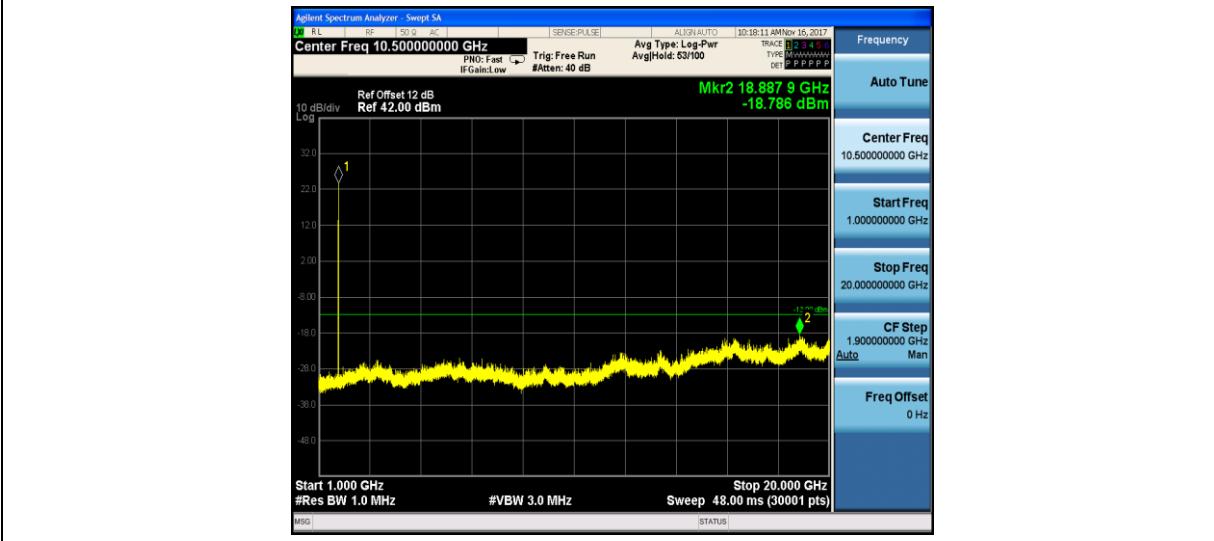
Band	Channel	Frequency Range(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-37.36	-13	PASS
Band II	9262	1000~20000	-18.04	-13	PASS
Band II	9400	30~1000	-37.62	-13	PASS
Band II	9400	1000~20000	-19.49	-13	PASS
Band II	9538	30~1000	-37.52	-13	PASS
Band II	9538	1000~20000	-19.13	-13	PASS
Band IV	1312	30~1000	-37.91	-13	PASS
Band IV	1312	1000~20000	-19.60	-13	PASS
Band IV	1413	30~1000	-38.29	-13	PASS
Band IV	1413	1000~20000	-18.79	-13	PASS
Band IV	1513	30~1000	-38.20	-13	PASS
Band IV	1513	1000~20000	-19.13	-13	PASS
Band V	4132	30~1000	-37.87	-13	PASS
Band V	4132	1000~20000	-19.41	-13	PASS
Band V	4182	30~1000	-37.83	-13	PASS
Band V	4182	1000~20000	-18.94	-13	PASS
Band V	4233	30~1000	-37.04	-13	PASS
Band V	4233	1000~20000	-19.43	-13	PASS

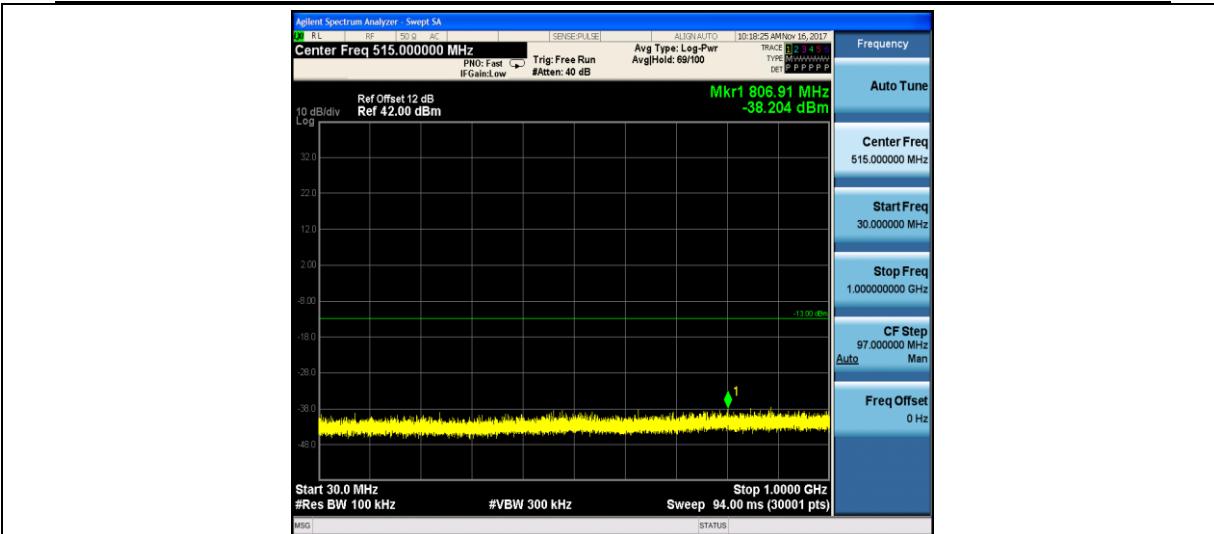
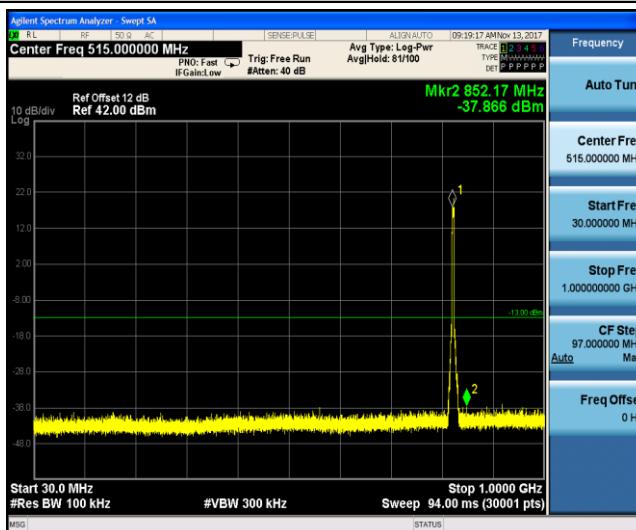
### Test Graphs

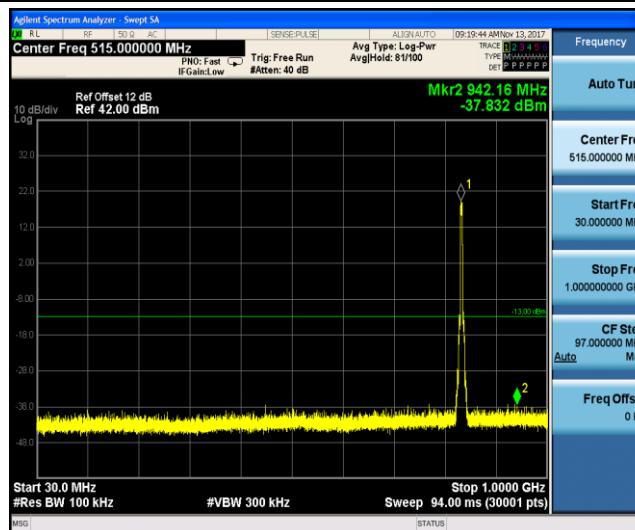
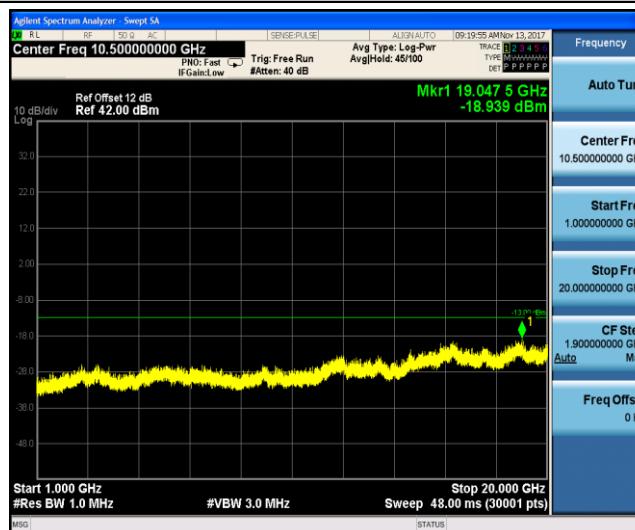


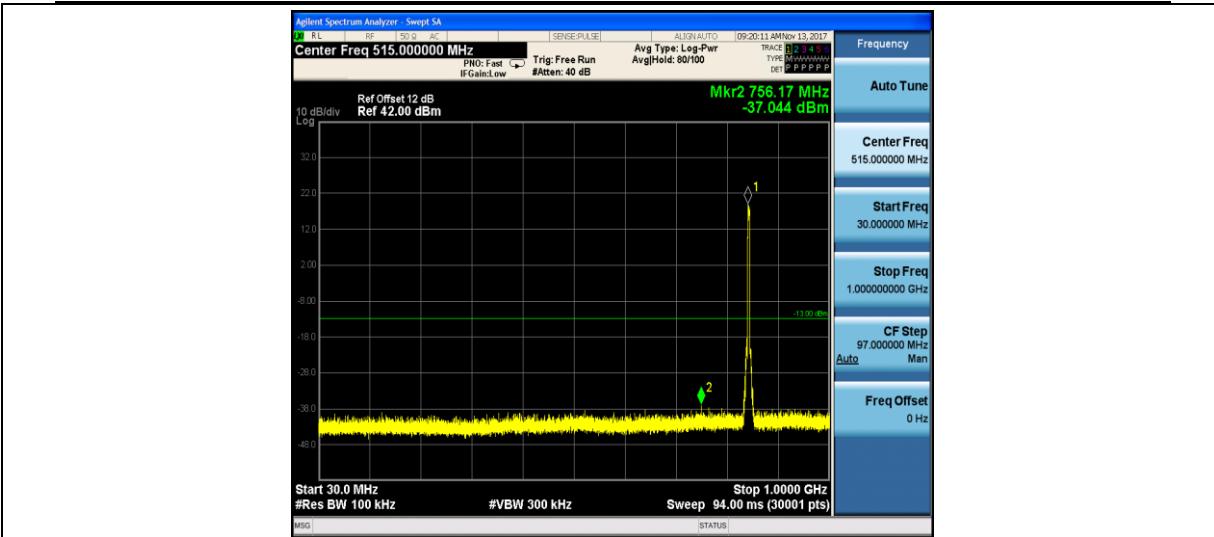


**Band II\_9538****Band IV\_1312****Band IV\_1312**

**Band IV\_1413****Band IV\_1413****Band IV\_1513**

**Band IV\_1513****Band V\_4132****Band V\_4132**

**Band V\_4182****Band V\_4182****Band V\_4233**



## Band V\_4233



## Appendix F: Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	NT	4.55	0.002455	2.5	PASS
Band II	9262	VN	NT	0.14	0.000074	2.5	PASS
Band II	9262	VH	NT	1.88	0.001013	2.5	PASS
Band II	9400	VL	NT	4.24	0.002256	2.5	PASS
Band II	9400	VN	NT	-1.31	-0.000698	2.5	PASS
Band II	9400	VH	NT	2.72	0.001445	2.5	PASS
Band II	9538	VL	NT	1.92	0.001008	2.5	PASS
Band II	9538	VN	NT	0.79	0.000416	2.5	PASS
Band II	9538	VH	NT	3.14	0.001648	2.5	PASS
Band IV	1312	VL	NT	1.91	0.001114	2.5	PASS
Band IV	1312	VN	NT	4.15	0.002424	2.5	PASS
Band IV	1312	VH	NT	-1.24	-0.000722	2.5	PASS
Band IV	1413	VL	NT	4.09	0.002360	2.5	PASS
Band IV	1413	VN	NT	-0.06	-0.000035	2.5	PASS
Band IV	1413	VH	NT	-0.17	-0.000097	2.5	PASS
Band IV	1513	VL	NT	7.60	0.004336	2.5	PASS
Band IV	1513	VN	NT	2.76	0.001576	2.5	PASS
Band IV	1513	VH	NT	4.62	0.002638	2.5	PASS
Band V	4132	VL	NT	-4.62	-0.005595	2.5	PASS
Band V	4132	VN	NT	-3.60	-0.004358	2.5	PASS
Band V	4132	VH	NT	-4.99	-0.006038	2.5	PASS
Band V	4182	VL	NT	-2.79	-0.003339	2.5	PASS
Band V	4182	VN	NT	-3.42	-0.004087	2.5	PASS
Band V	4182	VH	NT	-5.66	-0.006768	2.5	PASS
Band V	4233	VL	NT	-3.54	-0.004181	2.5	PASS
Band V	4233	VN	NT	-3.57	-0.004218	2.5	PASS
Band V	4233	VH	NT	-5.36	-0.006326	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperatur e (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	NV	-30	2.58	0.001392	2.5	PASS
Band II	9262	NV	-20	-0.64	-0.000346	2.5	PASS
Band II	9262	NV	-10	8.18	0.004415	2.5	PASS
Band II	9262	NV	0	4.99	0.002694	2.5	PASS
Band II	9262	NV	10	0.64	0.000346	2.5	PASS
Band II	9262	NV	20	7.92	0.004275	2.5	PASS
Band II	9262	NV	30	0.96	0.000519	2.5	PASS
Band II	9262	NV	40	4.90	0.002644	2.5	PASS
Band II	9262	NV	50	0.70	0.000379	2.5	PASS

Band II	9400	NV	-30	2.98	0.001583	2.5	PASS
Band II	9400	NV	-20	-0.96	-0.000511	2.5	PASS
Band II	9400	NV	-10	1.66	0.000885	2.5	PASS
Band II	9400	NV	0	2.15	0.001144	2.5	PASS
Band II	9400	NV	10	0.26	0.000138	2.5	PASS
Band II	9400	NV	20	1.19	0.000633	2.5	PASS
Band II	9400	NV	30	3.81	0.002029	2.5	PASS
Band II	9400	NV	40	3.34	0.001777	2.5	PASS
Band II	9400	NV	50	-0.56	-0.000300	2.5	PASS
Band II	9538	NV	-30	-6.74	-0.003536	2.5	PASS
Band II	9538	NV	-20	1.08	0.000568	2.5	PASS
Band II	9538	NV	-10	2.66	0.001392	2.5	PASS
Band II	9538	NV	0	-4.84	-0.002536	2.5	PASS
Band II	9538	NV	10	-0.55	-0.000288	2.5	PASS
Band II	9538	NV	20	1.97	0.001032	2.5	PASS
Band II	9538	NV	30	-1.88	-0.000984	2.5	PASS
Band II	9538	NV	40	0.55	0.000288	2.5	PASS
Band II	9538	NV	50	0.46	0.000240	2.5	PASS
Band IV	1312	NV	-30	0.43	0.000250	2.5	PASS
Band IV	1312	NV	-20	6.64	<b>0.003876</b>	2.5	PASS
Band IV	1312	NV	-10	2.43	0.001417	2.5	PASS
Band IV	1312	NV	0	0.85	0.000499	2.5	PASS
Band IV	1312	NV	10	1.21	0.000704	2.5	PASS
Band IV	1312	NV	20	4.96	0.002896	2.5	PASS
Band IV	1312	NV	30	0.60	0.000348	2.5	PASS
Band IV	1312	NV	40	5.58	0.003261	2.5	PASS
Band IV	1312	NV	50	3.20	0.001871	2.5	PASS
Band IV	1413	NV	-30	-0.82	-0.000476	2.5	PASS
Band IV	1413	NV	-20	-0.66	-0.000379	2.5	PASS
Band IV	1413	NV	-10	1.14	0.000661	2.5	PASS
Band IV	1413	NV	0	1.53	0.000881	2.5	PASS
Band IV	1413	NV	10	-2.96	-0.001709	2.5	PASS
Band IV	1413	NV	20	1.57	0.000907	2.5	PASS
Band IV	1413	NV	30	-0.82	-0.000476	2.5	PASS
Band IV	1413	NV	40	0.27	0.000159	2.5	PASS
Band IV	1413	NV	50	-2.29	-0.001321	2.5	PASS
Band IV	1513	NV	-30	2.98	0.001698	2.5	PASS
Band IV	1513	NV	-20	0.60	0.000340	2.5	PASS
Band IV	1513	NV	-10	5.16	0.002943	2.5	PASS
Band IV	1513	NV	0	7.84	0.004475	2.5	PASS
Band IV	1513	NV	10	4.71	0.002690	2.5	PASS
Band IV	1513	NV	20	7.69	0.004388	2.5	PASS
Band IV	1513	NV	30	4.09	0.002333	2.5	PASS
Band IV	1513	NV	40	4.21	0.002403	2.5	PASS
Band IV	1513	NV	50	6.48	0.003700	2.5	PASS
Band V	4132	NV	-30	-4.12	-0.004985	2.5	PASS
Band V	4132	NV	-20	-3.94	-0.004764	2.5	PASS
Band V	4132	NV	-10	-3.65	-0.004413	2.5	PASS
Band V	4132	NV	0	-3.83	-0.004635	2.5	PASS
Band V	4132	NV	10	-3.28	-0.003970	2.5	PASS

Band V	4132	NV	20	-2.43	-0.002936	2.5	PASS
Band V	4132	NV	30	-4.36	-0.005281	2.5	PASS
Band V	4132	NV	40	-3.59	-0.004339	2.5	PASS
Band V	4132	NV	50	-5.63	-0.006813	2.5	PASS
Band V	4182	NV	-30	-7.63	-0.009122	2.5	PASS
Band V	4182	NV	-20	-6.15	-0.007352	2.5	PASS
Band V	4182	NV	-10	-4.47	-0.005345	2.5	PASS
Band V	4182	NV	0	-3.56	-0.004251	2.5	PASS
Band V	4182	NV	10	-4.17	-0.004980	2.5	PASS
Band V	4182	NV	20	-2.85	-0.003412	2.5	PASS
Band V	4182	NV	30	-8.07	<b>-0.009651</b>	2.5	PASS
Band V	4182	NV	40	-4.39	-0.005254	2.5	PASS
Band V	4182	NV	50	-1.51	-0.001806	2.5	PASS
Band V	4233	NV	-30	-6.41	-0.007570	2.5	PASS
Band V	4233	NV	-20	-7.92	-0.009354	2.5	PASS
Band V	4233	NV	-10	-5.65	-0.006669	2.5	PASS
Band V	4233	NV	0	-7.16	-0.008453	2.5	PASS
Band V	4233	NV	10	-3.25	-0.003839	2.5	PASS
Band V	4233	NV	20	-4.30	-0.005083	2.5	PASS
Band V	4233	NV	30	-1.89	-0.002235	2.5	PASS
Band V	4233	NV	40	-2.61	-0.003082	2.5	PASS
Band V	4233	NV	50	-2.38	-0.002812	2.5	PASS