

# APPENDIX REPORT

Project No.	SHT2206032304EW	Radio Specification	WCDMA
Test sample No.	YPHT20120285014	Model No.	e360
Start test date	2020/12/15	Finish date	2020/12/16
Temperature	24.2°C	Humidity	30%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS

## 8.1 Appendix A: Conducted Output Power

### Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band IV	1312	22.92	30	PASS
Band IV	1413	22.84	30	PASS
Band IV	1513	22.98	30	PASS
Band V	4132	23.34	38.5	PASS
Band V	4182	23.37	38.5	PASS
Band V	4233	23.22	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band IV	1312	HSDPA_Sub1	21.83	30	PASS
Band IV	1312	HSDPA_Sub2	21.41	30	PASS
Band IV	1312	HSDPA_Sub3	21.40	30	PASS
Band IV	1312	HSDPA_Sub4	21.39	30	PASS
Band IV	1413	HSDPA_Sub1	21.79	30	PASS
Band IV	1413	HSDPA_Sub2	21.46	30	PASS
Band IV	1413	HSDPA_Sub3	21.47	30	PASS
Band IV	1413	HSDPA_Sub4	21.46	30	PASS
Band IV	1513	HSDPA_Sub1	21.85	30	PASS
Band IV	1513	HSDPA_Sub2	21.47	30	PASS
Band IV	1513	HSDPA_Sub3	21.50	30	PASS
Band IV	1513	HSDPA_Sub4	21.39	30	PASS
Band V	4132	HSDPA_Sub1	22.24	38.5	PASS
Band V	4132	HSDPA_Sub2	21.77	38.5	PASS
Band V	4132	HSDPA_Sub3	21.80	38.5	PASS
Band V	4132	HSDPA_Sub4	21.78	38.5	PASS
Band V	4182	HSDPA_Sub1	22.30	38.5	PASS
Band V	4182	HSDPA_Sub2	21.86	38.5	PASS
Band V	4182	HSDPA_Sub3	21.90	38.5	PASS
Band V	4182	HSDPA_Sub4	21.88	38.5	PASS
Band V	4233	HSDPA_Sub1	22.40	38.5	PASS
Band V	4233	HSDPA_Sub2	21.99	38.5	PASS
Band V	4233	HSDPA_Sub3	22.05	38.5	PASS
Band V	4233	HSDPA_Sub4	22.03	38.5	PASS

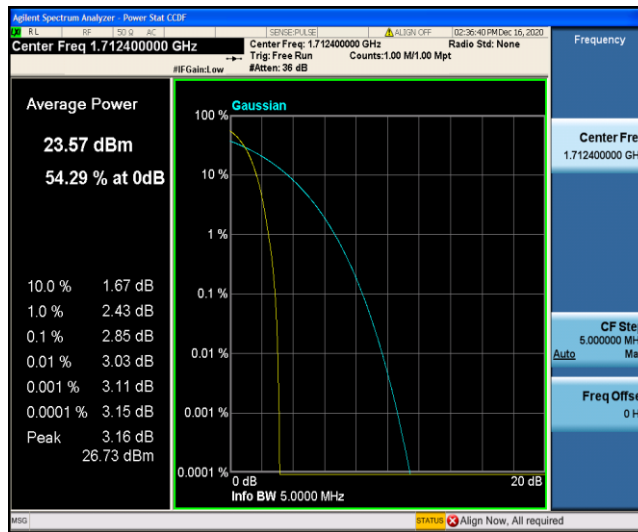
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band IV	1312	HSUPA_Sub1	21.54	30	PASS
Band IV	1312	HSUPA_Sub2	20.88	30	PASS
Band IV	1312	HSUPA_Sub3	20.72	30	PASS
Band IV	1312	HSUPA_Sub4	21.32	30	PASS
Band IV	1312	HSUPA_Sub5	22.09	30	PASS
Band IV	1413	HSUPA_Sub1	21.89	30	PASS
Band IV	1413	HSUPA_Sub2	20.29	30	PASS
Band IV	1413	HSUPA_Sub3	19.95	30	PASS
Band IV	1413	HSUPA_Sub4	20.75	30	PASS
Band IV	1413	HSUPA_Sub5	21.59	30	PASS
Band IV	1513	HSUPA_Sub1	21.66	30	PASS
Band IV	1513	HSUPA_Sub2	20.72	30	PASS
Band IV	1513	HSUPA_Sub3	19.80	30	PASS
Band IV	1513	HSUPA_Sub4	20.64	30	PASS
Band IV	1513	HSUPA_Sub5	21.68	30	PASS
Band V	4132	HSUPA_Sub1	21.59	38.5	PASS
Band V	4132	HSUPA_Sub2	21.01	38.5	PASS
Band V	4132	HSUPA_Sub3	20.90	38.5	PASS
Band V	4132	HSUPA_Sub4	21.43	38.5	PASS
Band V	4132	HSUPA_Sub5	21.95	38.5	PASS
Band V	4182	HSUPA_Sub1	21.58	38.5	PASS
Band V	4182	HSUPA_Sub2	21.06	38.5	PASS
Band V	4182	HSUPA_Sub3	20.98	38.5	PASS
Band V	4182	HSUPA_Sub4	21.50	38.5	PASS
Band V	4182	HSUPA_Sub5	22.05	38.5	PASS
Band V	4233	HSUPA_Sub1	21.48	38.5	PASS
Band V	4233	HSUPA_Sub2	20.92	38.5	PASS
Band V	4233	HSUPA_Sub3	20.67	38.5	PASS
Band V	4233	HSUPA_Sub4	21.37	38.5	PASS
Band V	4233	HSUPA_Sub5	22.08	38.5	PASS

## 8.2 Appendix B: Peak-to-Average Ratio

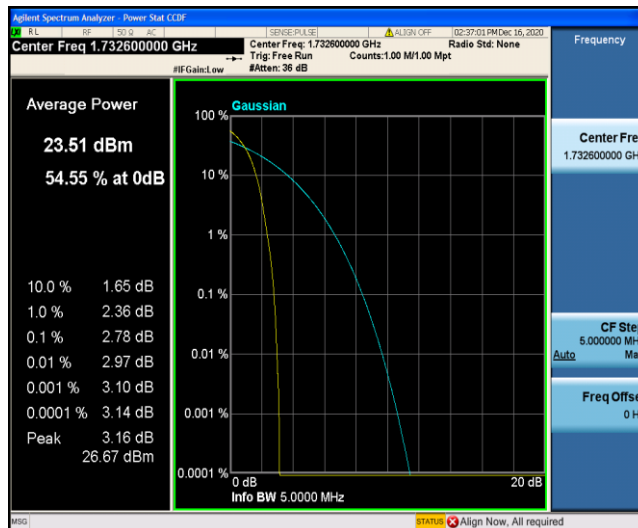
### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band IV	1312	2.85	13	PASS
Band IV	1413	2.78	13	PASS
Band IV	1513	2.98	13	PASS
Band V	4132	3.07	13	PASS
Band V	4182	3.07	13	PASS
Band V	4233	3.04	13	PASS

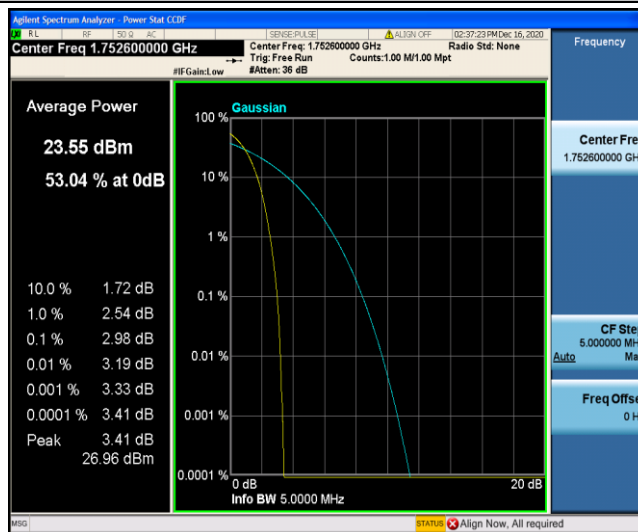
Test Graphs



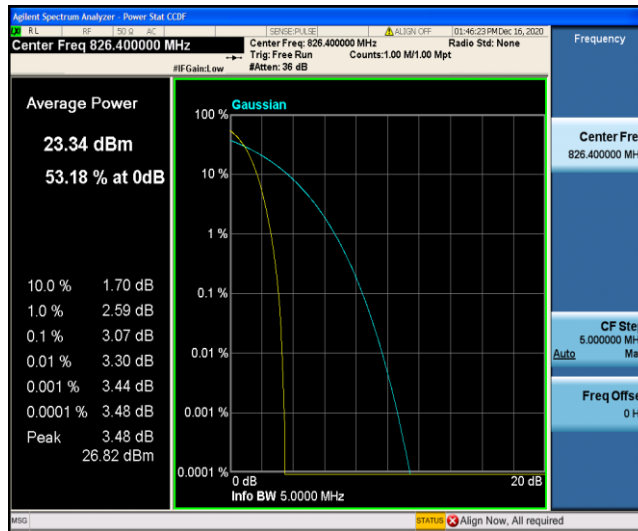
Band IV\_1312



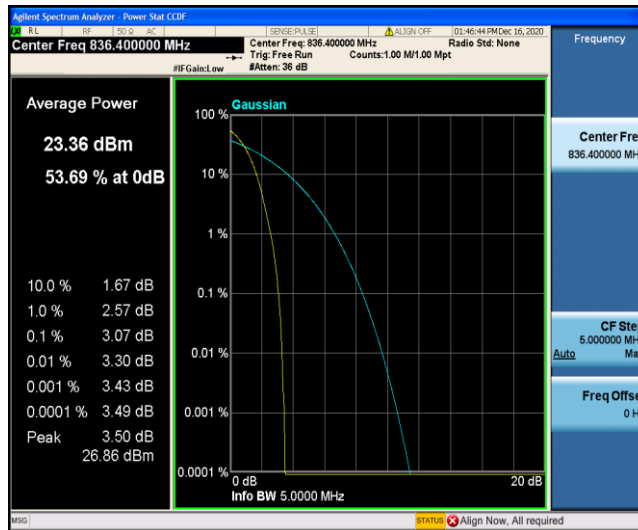
Band IV\_1413



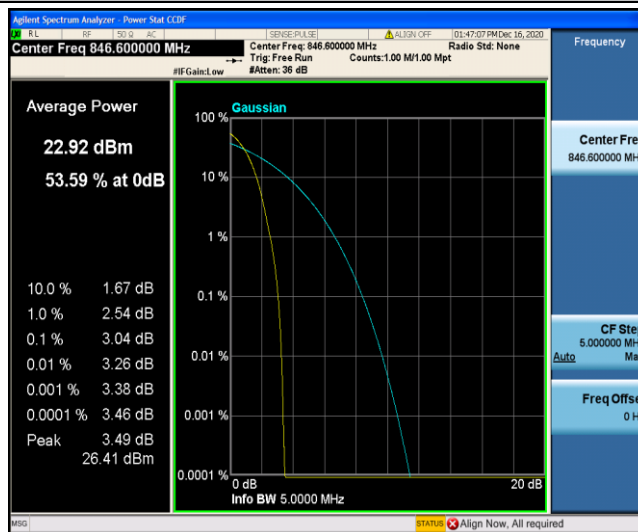
Band IV\_1513



Band V\_4132



Band V\_4182



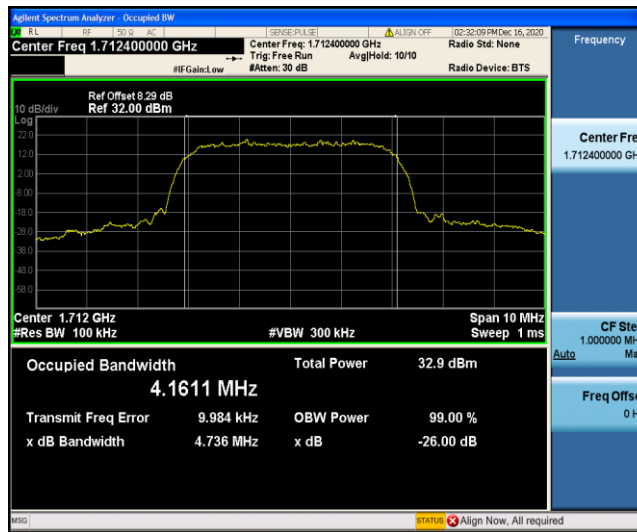
Band V\_4233

### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

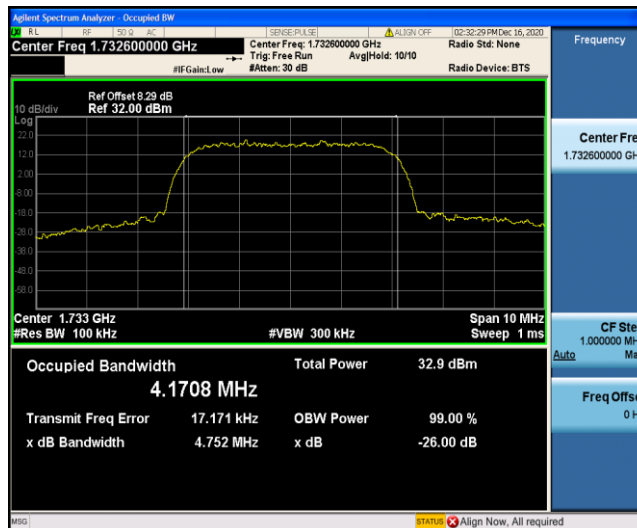
#### Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band IV	1312	4161.1	4736	---	PASS
Band IV	1413	4170.8	4752	---	PASS
Band IV	1513	4152.7	4743	---	PASS
Band V	4132	4144.7	4739	---	PASS
Band V	4182	4147.4	4732	---	PASS
Band V	4233	4153.0	4739	---	PASS

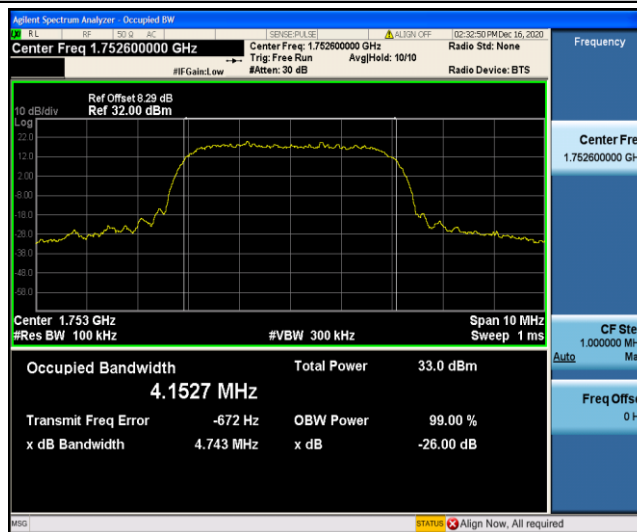
Test Graphs



Band IV\_1312

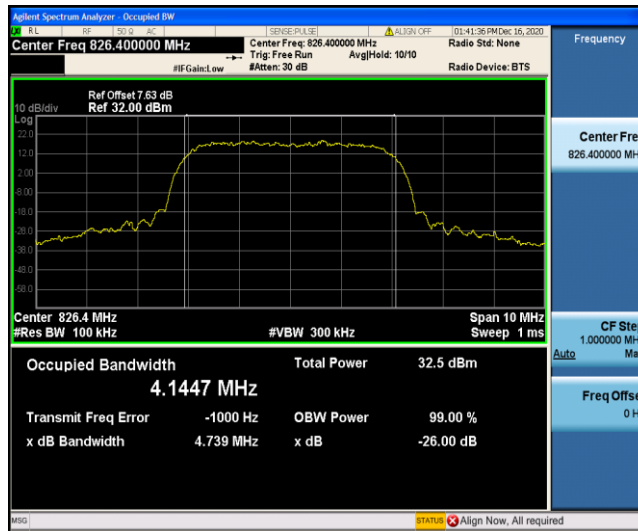


Band IV\_1413

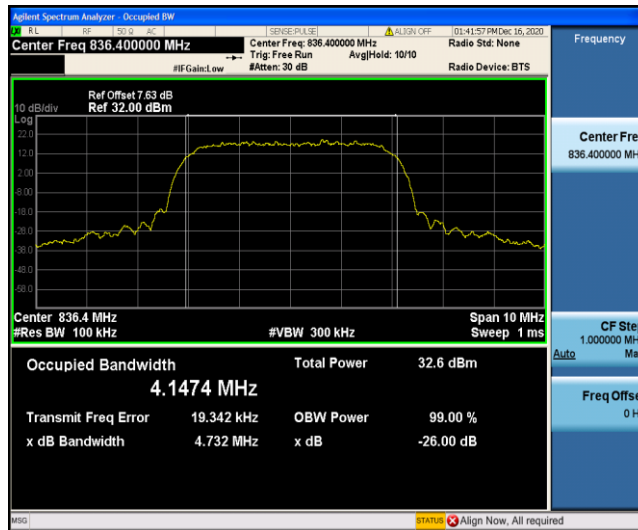


Band IV\_1513

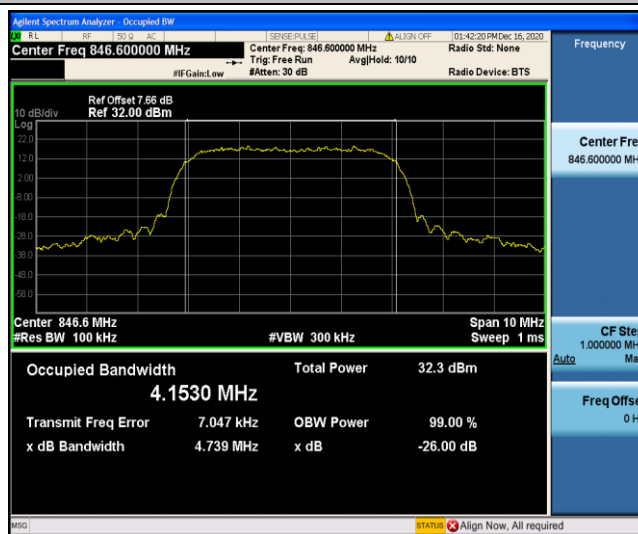




Band V\_4132



Band V\_4182



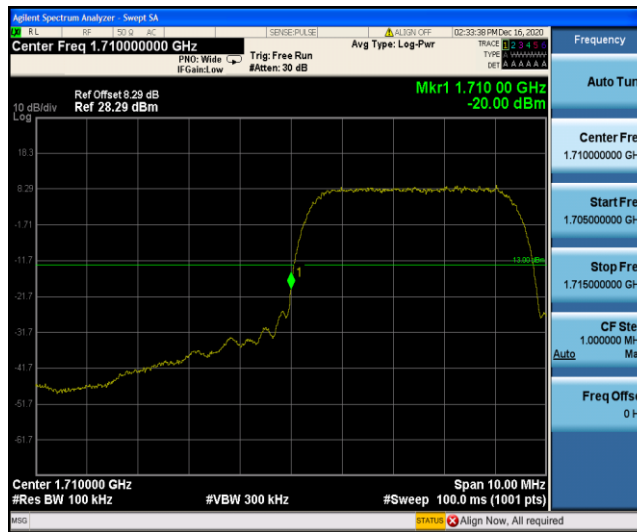
Band V\_4233

**8.4 Appendix D: Band Edge**

## Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band IV	1312	-20.00	-13	PASS
Band IV	1513	-20.66	-13	PASS
Band V	4132	-20.01	-13	PASS
Band V	4233	-21.38	-13	PASS

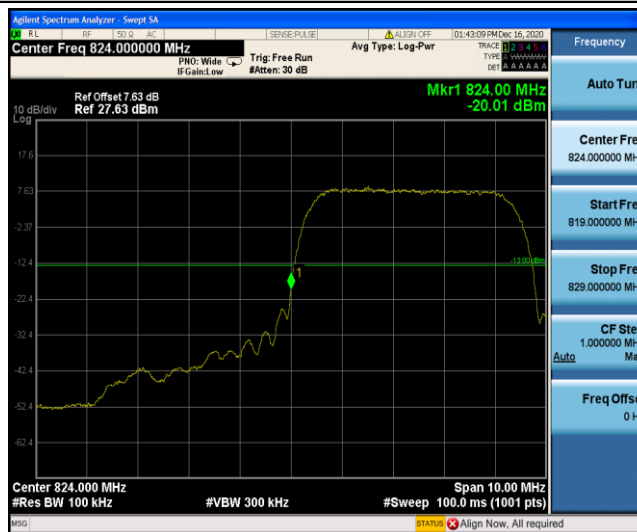
Test Graphs



Band IV\_1312



Band IV\_1513



Band V\_4132



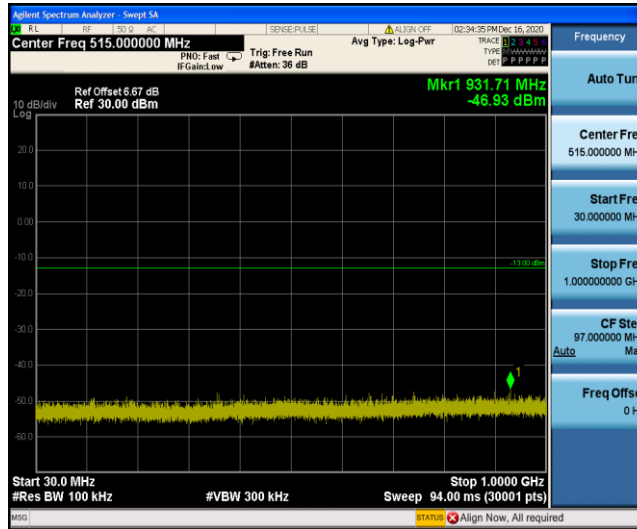
Band V\_4233

## 8.5 Appendix E: Conducted Spurious Emission

### Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band IV	1312	30~1000	-46.93	-13	PASS
Band IV	1312	1000~20000	-26.35	-13	PASS
Band IV	1413	30~1000	-47.56	-13	PASS
Band IV	1413	1000~20000	-26.25	-13	PASS
Band IV	1513	30~1000	-47.02	-13	PASS
Band IV	1513	1000~20000	-25.98	-13	PASS
Band V	4132	30~1000	-47.07	-13	PASS
Band V	4132	1000~10000	-31.11	-13	PASS
Band V	4182	30~1000	-47.90	-13	PASS
Band V	4182	1000~10000	-31.65	-13	PASS
Band V	4233	30~1000	-47.24	-13	PASS
Band V	4233	1000~10000	-32.34	-13	PASS

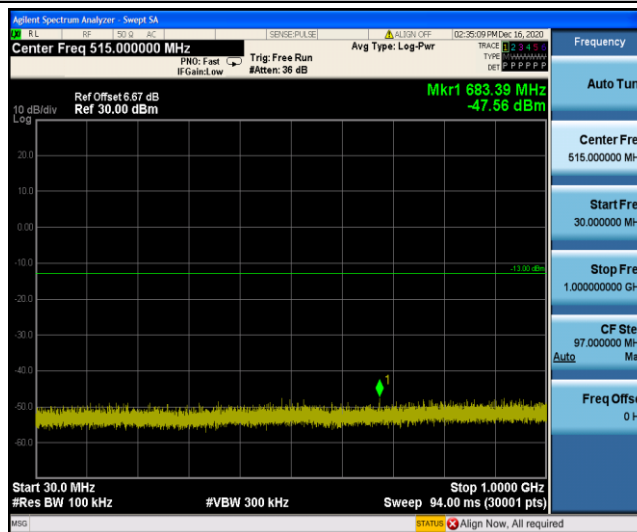
Test Graphs



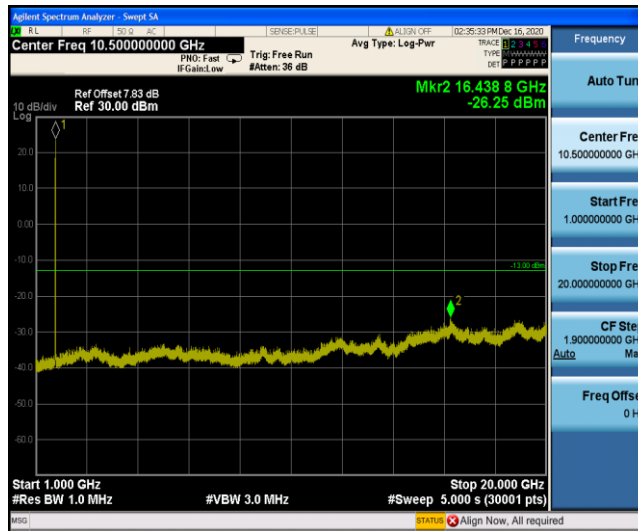
Band IV\_1312



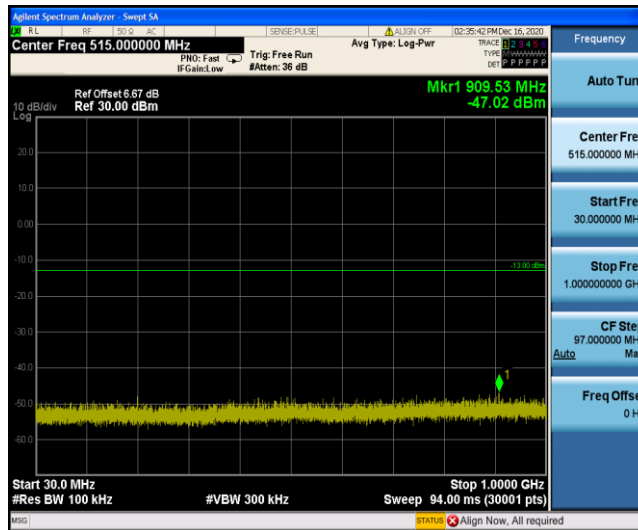
Band IV\_1312



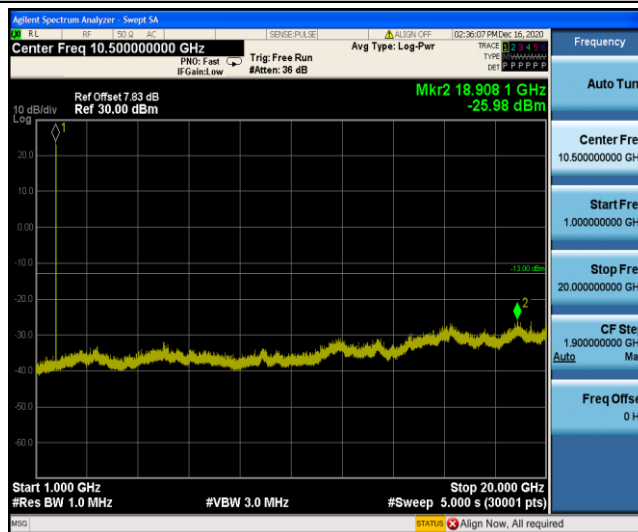
Band IV\_1413



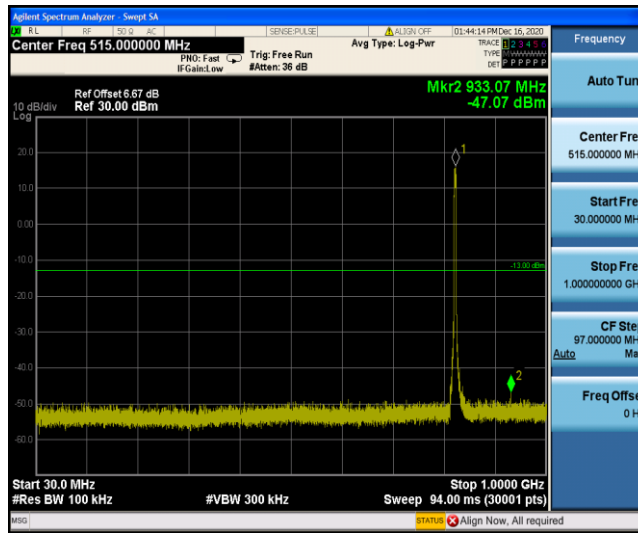
Band IV\_1413



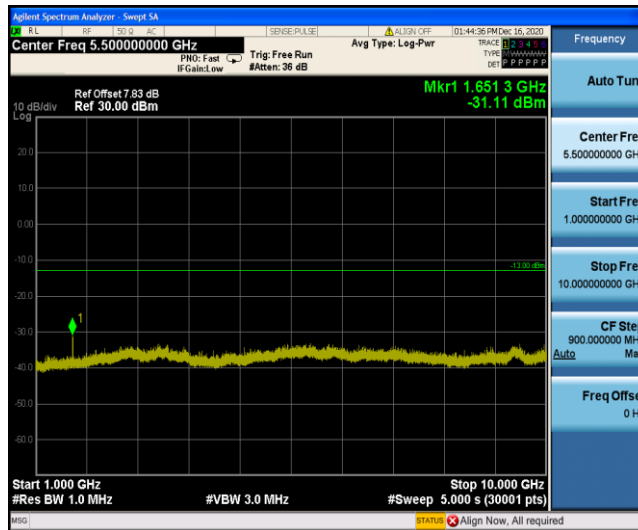
Band IV\_1513



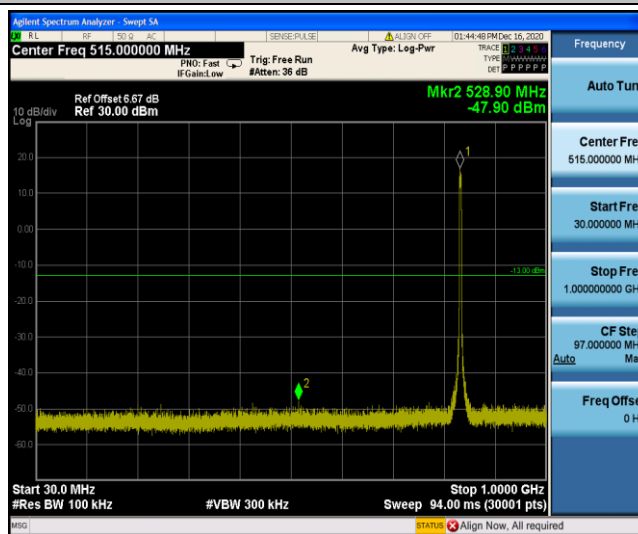
Band IV\_1513



Band V\_4132



Band V\_4132

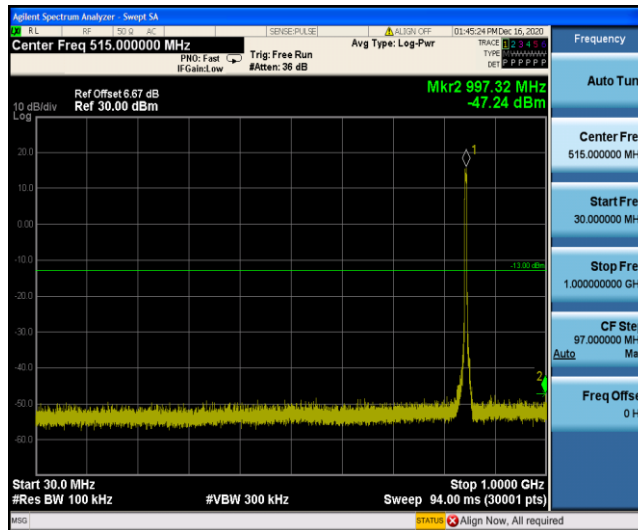


Band V\_4182

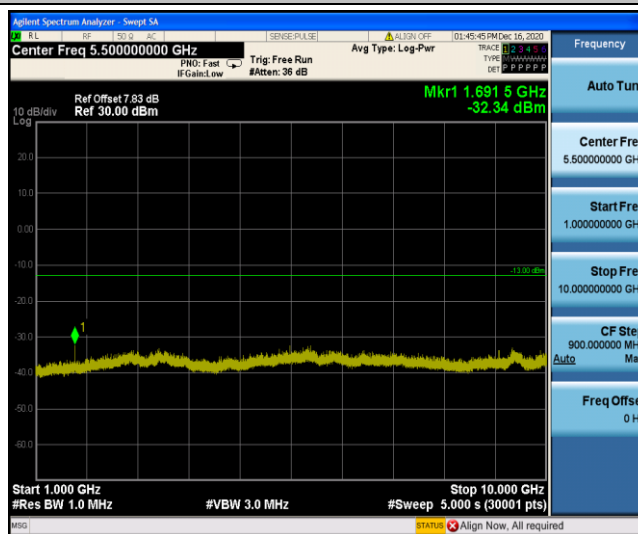




Band V\_4182



Band V\_4233



Band V\_4233

**8.6 Appendix F: Frequency Stability**

## Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	VL	TN	4.89	0.002856	2.5	PASS
Band IV	1312	VN	TN	6.12	0.003574	2.5	PASS
Band IV	1312	VH	TN	5.58	0.003259	2.5	PASS
Band IV	1413	VL	TN	-1.82	-0.001050	2.5	PASS
Band IV	1413	VN	TN	0.29	0.000167	2.5	PASS
Band IV	1413	VH	TN	-1.26	-0.000727	2.5	PASS
Band IV	1513	VL	TN	-10.90	-0.006219	2.5	PASS
Band IV	1513	VN	TN	-10.94	-0.006242	2.5	PASS
Band IV	1513	VH	TN	-9.73	-0.005552	2.5	PASS
Band V	4132	VL	TN	2.12	0.002565	2.5	PASS
Band V	4132	VN	TN	2.10	0.002541	2.5	PASS
Band V	4132	VH	TN	1.68	0.002033	2.5	PASS
Band V	4182	VL	TN	0.34	0.000407	2.5	PASS
Band V	4182	VN	TN	0.00	0.000000	2.5	PASS
Band V	4182	VH	TN	-0.09	-0.000108	2.5	PASS
Band V	4233	VL	TN	-1.87	-0.002209	2.5	PASS
Band V	4233	VN	TN	-2.04	-0.002410	2.5	PASS
Band V	4233	VH	TN	-2.37	-0.002799	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band IV	1312	VN	-30	5.83	0.003405	2.5	PASS
Band IV	1312	VN	-20	7.76	0.004532	2.5	PASS
Band IV	1312	VN	-10	5.69	0.003323	2.5	PASS
Band IV	1312	VN	0	6.55	0.003825	2.5	PASS
Band IV	1312	VN	10	8.97	0.005238	2.5	PASS
Band IV	1312	VN	20	6.48	0.003784	2.5	PASS
Band IV	1312	VN	30	8.23	0.004806	2.5	PASS
Band IV	1312	VN	40	8.95	0.005227	2.5	PASS
Band IV	1312	VN	50	8.80	0.005139	2.5	PASS
Band IV	1413	VN	-30	0.11	0.000063	2.5	PASS
Band IV	1413	VN	-20	-1.48	-0.000854	2.5	PASS
Band IV	1413	VN	-10	-1.41	-0.000814	2.5	PASS
Band IV	1413	VN	0	-0.92	-0.000531	2.5	PASS
Band IV	1413	VN	10	-0.46	-0.000265	2.5	PASS
Band IV	1413	VN	20	0.65	0.000375	2.5	PASS
Band IV	1413	VN	30	0.21	0.000121	2.5	PASS
Band IV	1413	VN	40	-1.83	-0.001056	2.5	PASS
Band IV	1413	VN	50	0.16	0.000092	2.5	PASS
Band IV	1513	VN	-30	-10.88	-0.006208	2.5	PASS
Band IV	1513	VN	-20	-10.59	-0.006042	2.5	PASS
Band IV	1513	VN	-10	-10.75	-0.006134	2.5	PASS
Band IV	1513	VN	0	-10.44	-0.005957	2.5	PASS
Band IV	1513	VN	10	-13.19	-0.007526	2.5	PASS
Band IV	1513	VN	20	-10.21	-0.005826	2.5	PASS
Band IV	1513	VN	30	-12.13	-0.006921	2.5	PASS
Band IV	1513	VN	40	-11.58	-0.006607	2.5	PASS
Band IV	1513	VN	50	-11.35	-0.006476	2.5	PASS
Band V	4132	VN	-30	2.20	0.002662	2.5	PASS
Band V	4132	VN	-20	1.99	0.002408	2.5	PASS
Band V	4132	VN	-10	2.45	0.002965	2.5	PASS
Band V	4132	VN	0	2.06	0.002493	2.5	PASS
Band V	4132	VN	10	2.30	0.002783	2.5	PASS
Band V	4132	VN	20	1.92	0.002323	2.5	PASS
Band V	4132	VN	30	2.46	0.002977	2.5	PASS
Band V	4132	VN	40	2.20	0.002662	2.5	PASS
Band V	4132	VN	50	1.90	0.002299	2.5	PASS
Band V	4182	VN	-30	0.39	0.000466	2.5	PASS
Band V	4182	VN	-20	0.06	0.000072	2.5	PASS
Band V	4182	VN	-10	0.74	0.000885	2.5	PASS
Band V	4182	VN	0	0.09	0.000108	2.5	PASS
Band V	4182	VN	10	0.23	0.000275	2.5	PASS
Band V	4182	VN	20	0.04	0.000048	2.5	PASS
Band V	4182	VN	30	-0.03	-0.000036	2.5	PASS
Band V	4182	VN	40	0.09	0.000108	2.5	PASS
Band V	4182	VN	50	-0.06	-0.000072	2.5	PASS
Band V	4233	VN	-30	-1.99	-0.002351	2.5	PASS

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Band V	4233	VN	-20	-2.14	-0.002528	2.5	PASS
Band V	4233	VN	-10	-2.24	-0.002646	2.5	PASS
Band V	4233	VN	0	-3.04	-0.003591	2.5	PASS
Band V	4233	VN	10	-2.30	-0.002717	2.5	PASS
Band V	4233	VN	20	-1.91	-0.002256	2.5	PASS
Band V	4233	VN	30	-2.50	-0.002953	2.5	PASS
Band V	4233	VN	40	-1.58	-0.001866	2.5	PASS
Band V	4233	VN	50	-2.05	-0.002421	2.5	PASS

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