

APPENDIX REPORT

Project No.	SHT2003046801EW	Radio Specification	WCDMA
Test sample No.	YPHT20030468003	Model No.	R40
Start test date	2020/5/15	Finish date	2020/5/21
Temperature	25°C	Humidity	50%
Test Engineer	Jess He	Auditor	<i>William.wang</i>

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 II	9262	20.43	33	PASS
Band II	9400	20.39	33	PASS
Band II	9538	20.71	33	PASS
Band V	4132	22.78	38.5	PASS
Band V	4182	22.94	38.5	PASS
Band V	4233	22.80	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	20.36	33	PASS
Band II	9262	HSDPA_Sub2	20.24	33	PASS
Band II	9262	HSDPA_Sub3	20.26	33	PASS
Band II	9262	HSDPA_Sub4	20.28	33	PASS
Band II	9400	HSDPA_Sub1	20.56	33	PASS
Band II	9400	HSDPA_Sub2	20.20	33	PASS
Band II	9400	HSDPA_Sub3	20.20	33	PASS
Band II	9400	HSDPA_Sub4	20.21	33	PASS
Band II	9538	HSDPA_Sub1	19.97	33	PASS
Band II	9538	HSDPA_Sub2	19.93	33	PASS
Band II	9538	HSDPA_Sub3	19.92	33	PASS
Band II	9538	HSDPA_Sub4	19.94	33	PASS
Band V	4132	HSDPA_Sub1	21.73	38.5	PASS
Band V	4132	HSDPA_Sub2	21.18	38.5	PASS
Band V	4132	HSDPA_Sub3	21.20	38.5	PASS
Band V	4132	HSDPA_Sub4	21.18	38.5	PASS
Band V	4182	HSDPA_Sub1	21.82	38.5	PASS
Band V	4182	HSDPA_Sub2	21.26	38.5	PASS
Band V	4182	HSDPA_Sub3	21.32	38.5	PASS
Band V	4182	HSDPA_Sub4	21.28	38.5	PASS
Band V	4233	HSDPA_Sub1	21.73	38.5	PASS
Band V	4233	HSDPA_Sub2	21.25	38.5	PASS
Band V	4233	HSDPA_Sub3	21.23	38.5	PASS
Band V	4233	HSDPA_Sub4	21.23	38.5	PASS

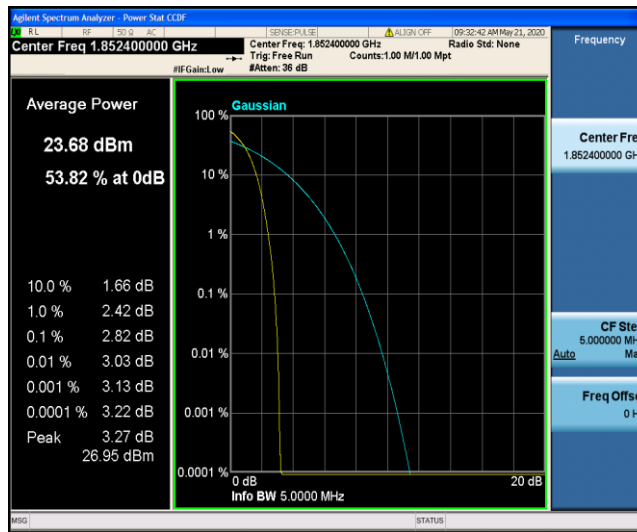
Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	18.71	33	PASS
Band II	9262	HSUPA_Sub2	19.22	33	PASS
Band II	9262	HSUPA_Sub3	19.81	33	PASS
Band II	9262	HSUPA_Sub4	18.74	33	PASS
Band II	9262	HSUPA_Sub5	20.73	33	PASS
Band II	9400	HSUPA_Sub1	18.70	33	PASS
Band II	9400	HSUPA_Sub2	19.19	33	PASS
Band II	9400	HSUPA_Sub3	19.75	33	PASS
Band II	9400	HSUPA_Sub4	18.75	33	PASS
Band II	9400	HSUPA_Sub5	20.73	33	PASS
Band II	9538	HSUPA_Sub1	18.73	33	PASS
Band II	9538	HSUPA_Sub2	19.25	33	PASS
Band II	9538	HSUPA_Sub3	19.80	33	PASS
Band II	9538	HSUPA_Sub4	18.78	33	PASS
Band II	9538	HSUPA_Sub5	20.54	33	PASS
Band V	4132	HSUPA_Sub1	19.97	38.5	PASS
Band V	4132	HSUPA_Sub2	20.37	38.5	PASS
Band V	4132	HSUPA_Sub3	20.85	38.5	PASS
Band V	4132	HSUPA_Sub4	20.00	38.5	PASS
Band V	4132	HSUPA_Sub5	21.94	38.5	PASS
Band V	4182	HSUPA_Sub1	19.99	38.5	PASS
Band V	4182	HSUPA_Sub2	20.39	38.5	PASS
Band V	4182	HSUPA_Sub3	20.94	38.5	PASS
Band V	4182	HSUPA_Sub4	20.07	38.5	PASS
Band V	4182	HSUPA_Sub5	21.98	38.5	PASS
Band V	4233	HSUPA_Sub1	20.00	38.5	PASS
Band V	4233	HSUPA_Sub2	20.43	38.5	PASS
Band V	4233	HSUPA_Sub3	20.87	38.5	PASS
Band V	4233	HSUPA_Sub4	19.99	38.5	PASS
Band V	4233	HSUPA_Sub5	20.03	38.5	PASS

8.2 Appendix B: Peak-to-Average Ratio

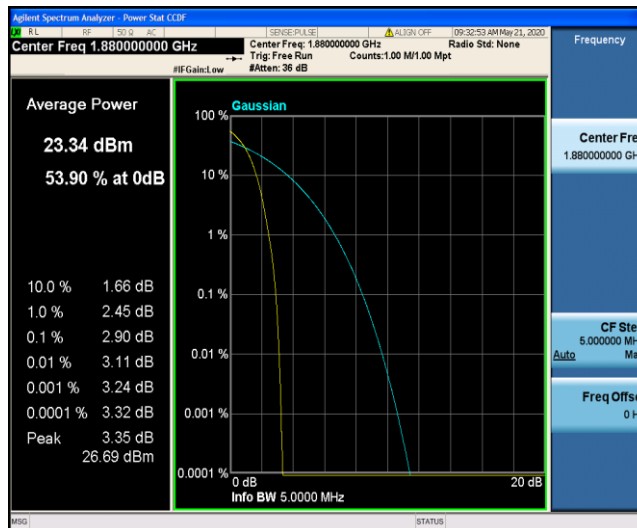
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.82	13	PASS
Band II	9400	2.90	13	PASS
Band II	9538	2.89	13	PASS
Band V	4132	2.99	13	PASS
Band V	4182	2.97	13	PASS
Band V	4233	2.99	13	PASS

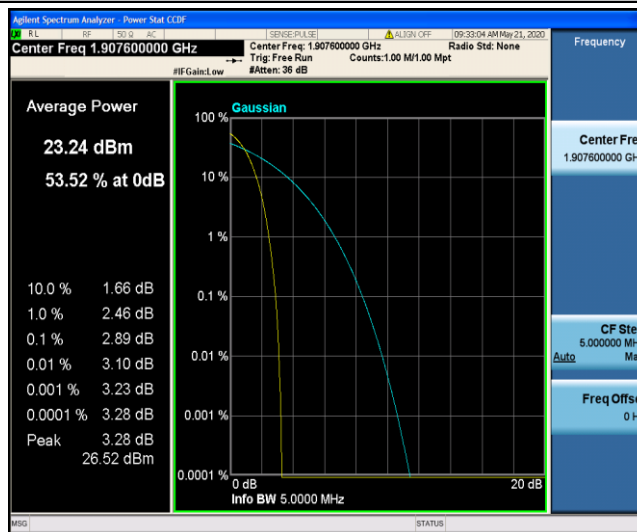
Test Graphs



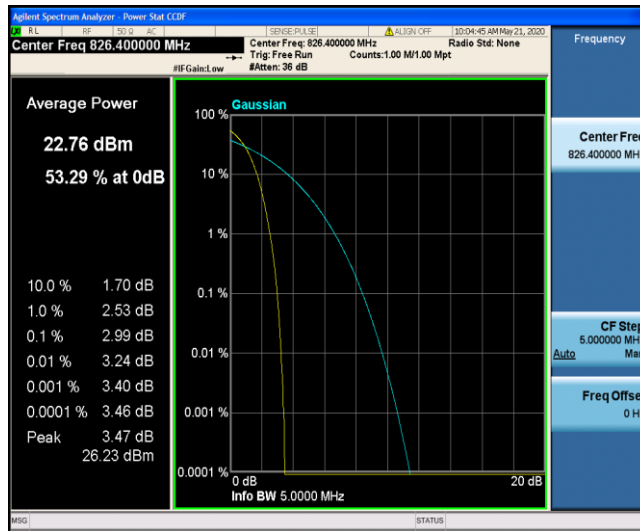
Band II_9262



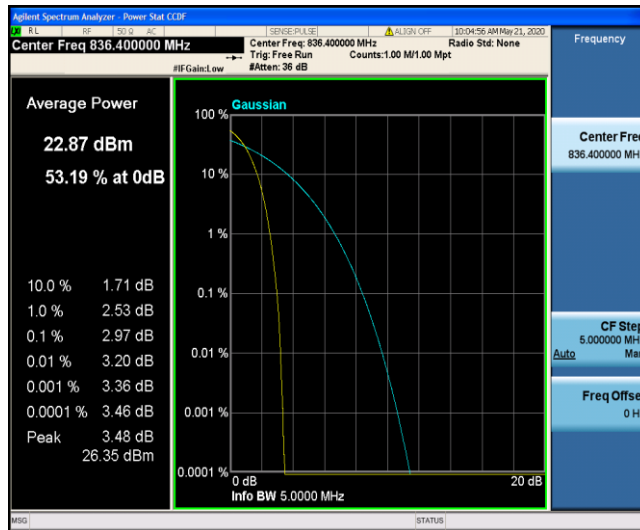
Band II_9400



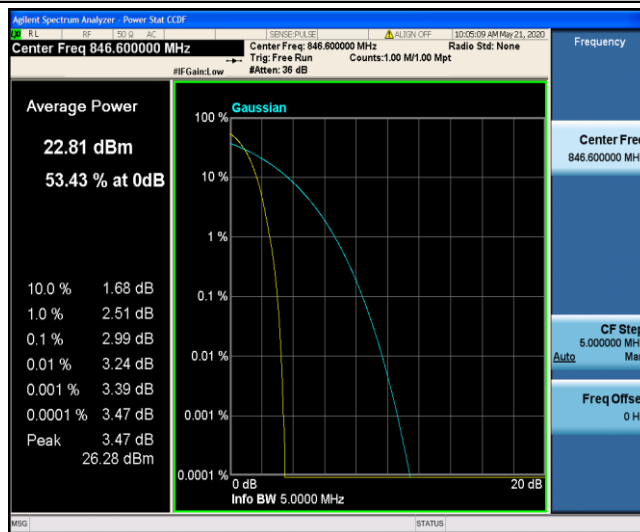
Band II_9538



Band V_4132



Band V_4182



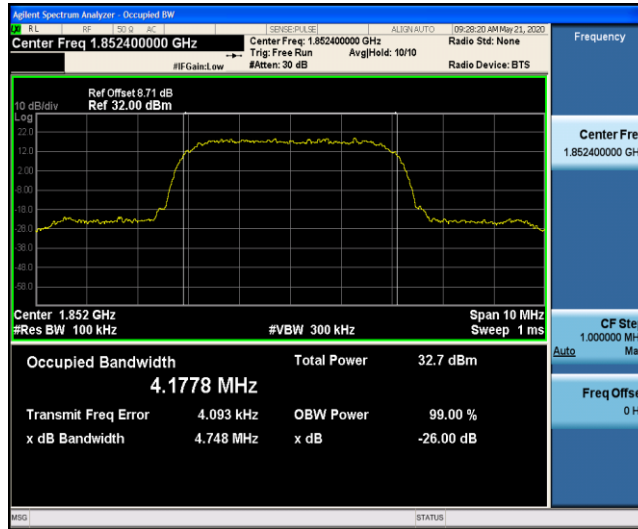
Band V_4233

8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

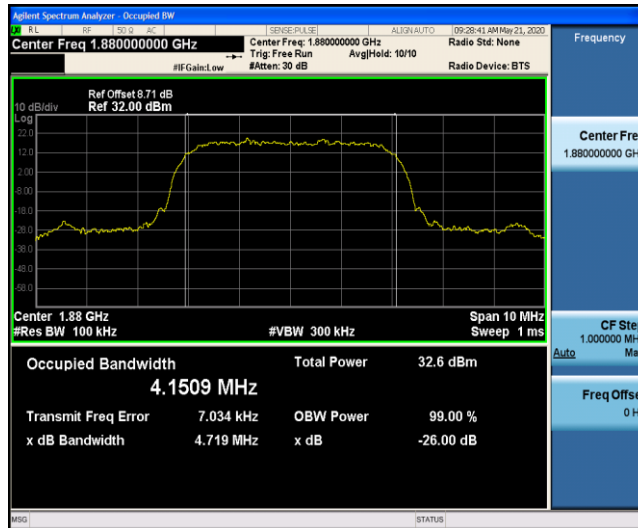
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4177.8	4748	---	PASS
Band II	9400	4150.9	4719	---	PASS
Band II	9538	4160.8	4723	---	PASS
Band V	4132	4171.5	4727	---	PASS
Band V	4182	4187.0	4740	---	PASS
Band V	4233	4167.0	4721	---	PASS

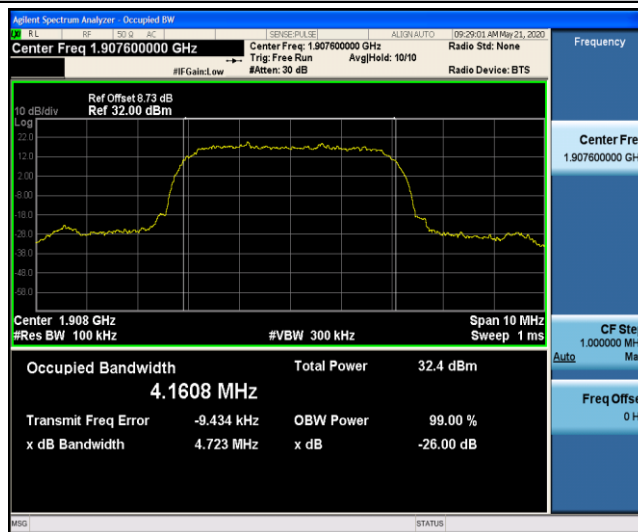
Test Graphs



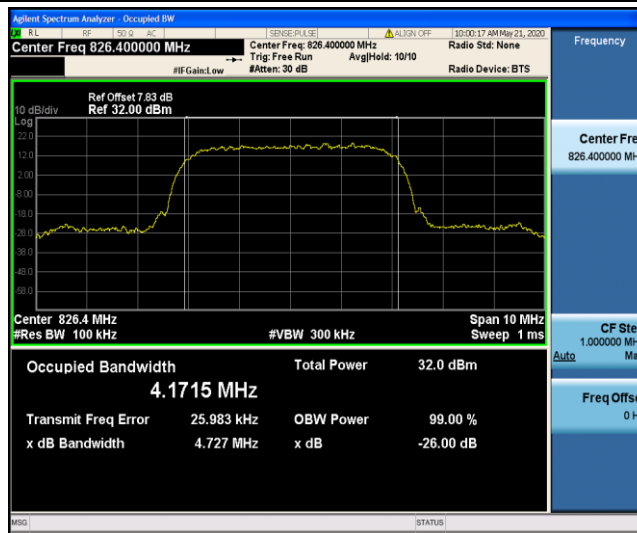
Band II_9262



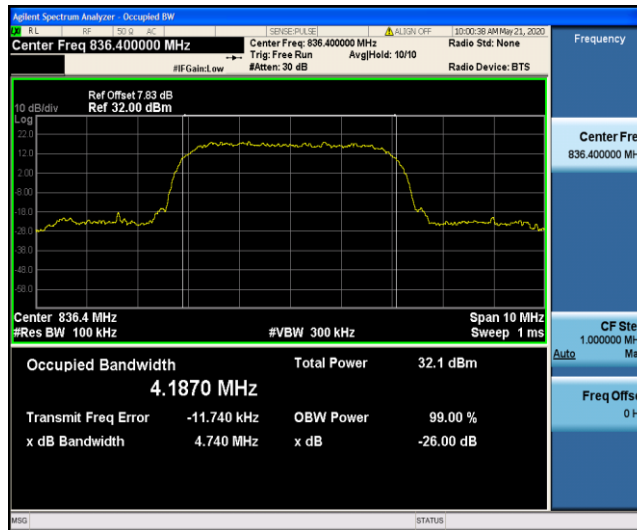
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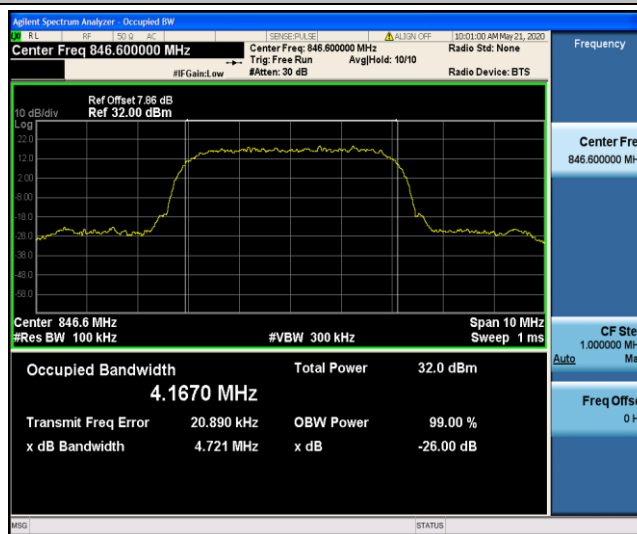
Band II_9538



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	-20.18	-13	PASS
Band II	9538	-22.77	-13	PASS
Band V	4132	-23.01	-13	PASS
Band V	4233	-21.82	-13	PASS

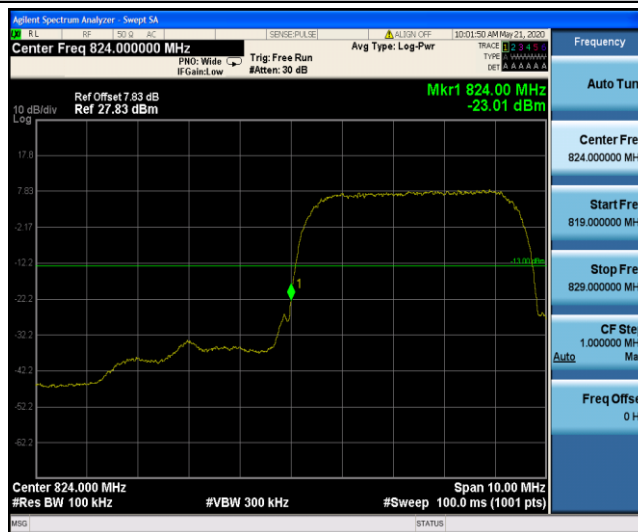
Test Graphs



Band II_9262



Band II_9538



Band V_4132



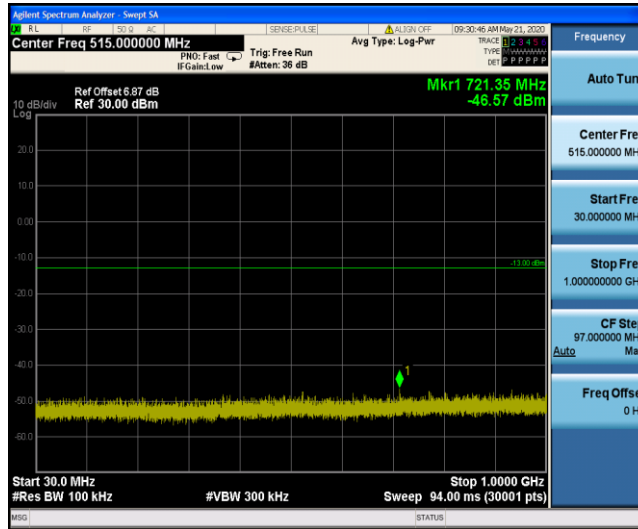
Band V_4233

8.5 Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-46.57	-13	PASS
Band II	9262	1000~20000	-25.73	-13	PASS
Band II	9400	30~1000	-46.79	-13	PASS
Band II	9400	1000~20000	-25.38	-13	PASS
Band II	9538	30~1000	-46.11	-13	PASS
Band II	9538	1000~20000	-25.18	-13	PASS
Band V	4132	30~1000	-46.69	-13	PASS
Band V	4132	1000~10000	-32.50	-13	PASS
Band V	4182	30~1000	-46.56	-13	PASS
Band V	4182	1000~10000	-31.79	-13	PASS
Band V	4233	30~1000	-47.37	-13	PASS
Band V	4233	1000~10000	-32.28	-13	PASS

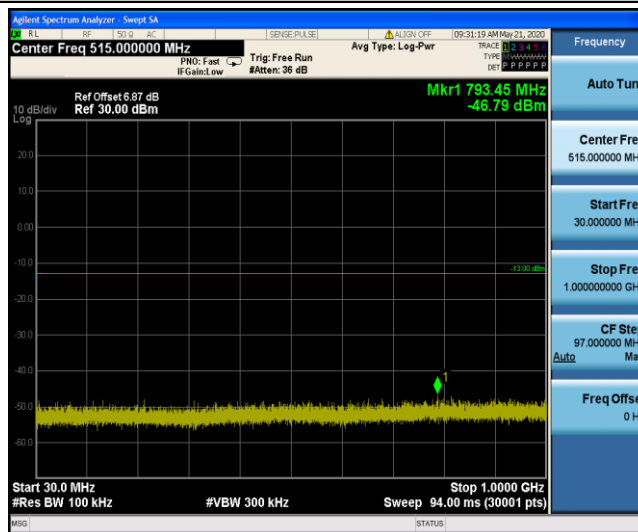
Test Graphs



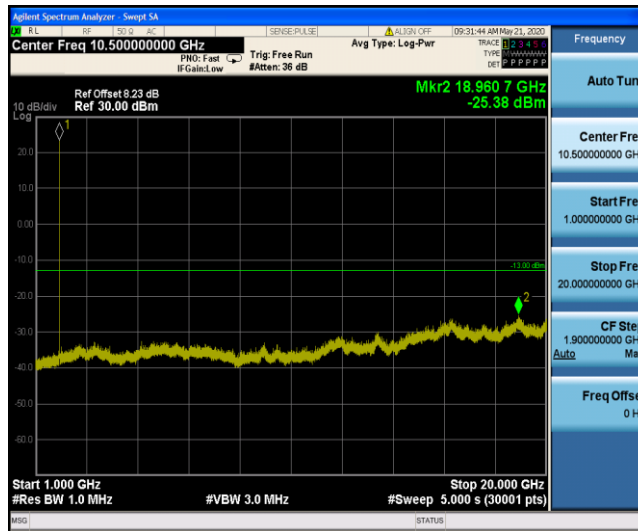
Band II_9262



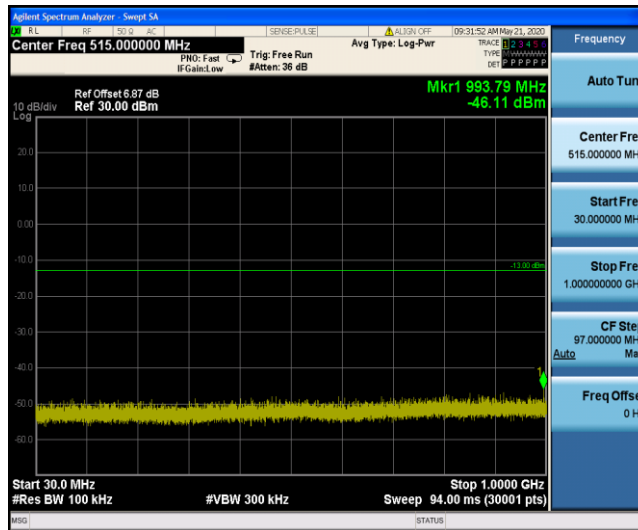
Band II_9262



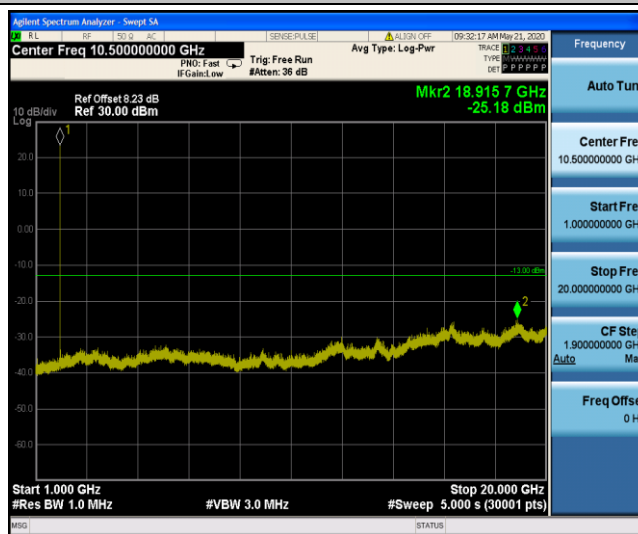
Band II_9400



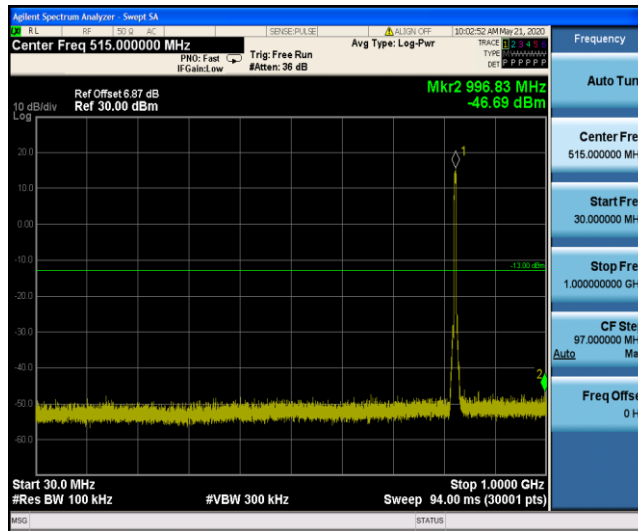
Band II_9400



Band II_9538



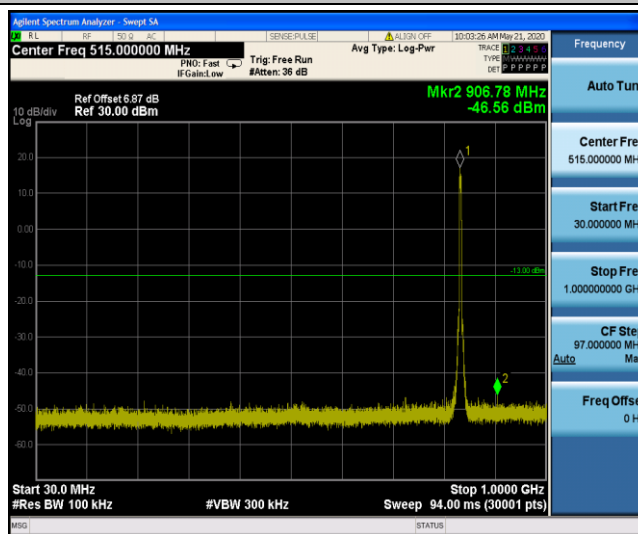
Band II_9538



Band V_4132



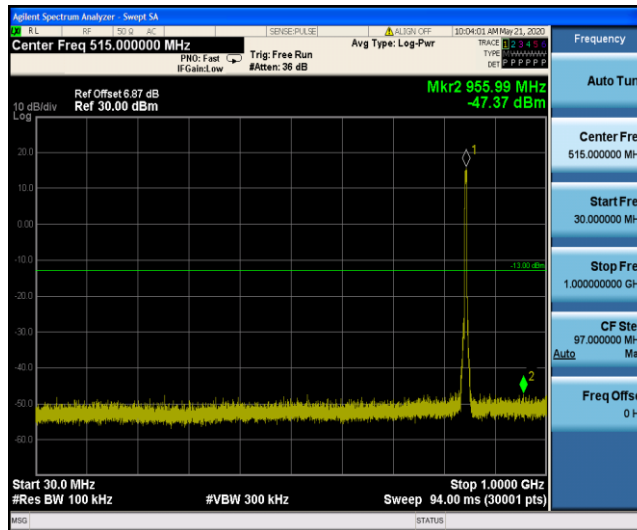
Band V_4132



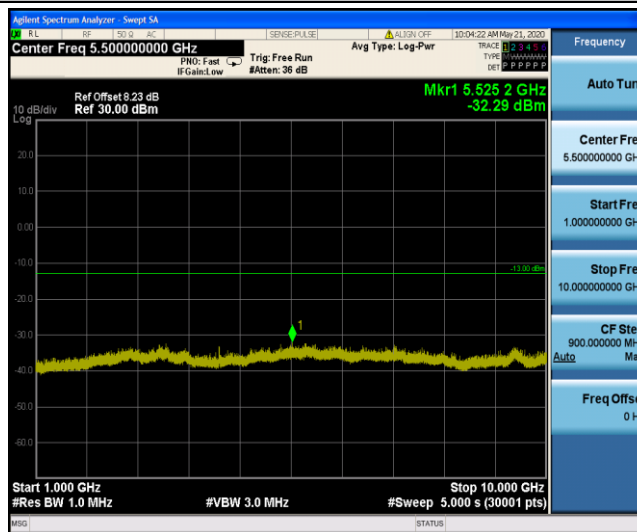
Band V_4182



Band V_4182



Band V_4233



Band V_4233

8.6 Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-10.41	-0.005622	2.5	PASS
Band II	9262	VN	TN	-11.76	-0.006348	2.5	PASS
Band II	9262	VH	TN	-4.48	-0.002417	2.5	PASS
Band II	9400	VL	TN	-4.31	-0.002294	2.5	PASS
Band II	9400	VN	TN	-9.92	-0.005277	2.5	PASS
Band II	9400	VH	TN	-11.34	-0.006030	2.5	PASS
Band II	9538	VL	TN	-7.79	-0.004083	2.5	PASS
Band II	9538	VN	TN	-13.18	-0.006910	2.5	PASS
Band II	9538	VH	TN	-7.07	-0.003708	2.5	PASS
Band V	4132	VL	TN	-11.07	-0.013398	2.5	PASS
Band V	4132	VN	TN	-10.62	-0.012853	2.5	PASS
Band V	4132	VH	TN	-10.74	-0.013000	2.5	PASS
Band V	4182	VL	TN	-12.86	-0.015376	2.5	PASS
Band V	4182	VN	TN	-9.00	-0.010758	2.5	PASS
Band V	4182	VH	TN	-7.72	-0.009227	2.5	PASS
Band V	4233	VL	TN	-12.70	-0.014996	2.5	PASS
Band V	4233	VN	TN	-12.67	-0.014971	2.5	PASS
Band V	4233	VH	TN	-6.90	-0.008144	2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-13.63	-0.007360	2.5	PASS
Band II	9262	VN	-20	-8.53	-0.004606	2.5	PASS
Band II	9262	VN	-10	-8.65	-0.004672	2.5	PASS
Band II	9262	VN	0	-8.07	-0.004355	2.5	PASS
Band II	9262	VN	10	-12.36	-0.006672	2.5	PASS
Band II	9262	VN	20	-10.31	-0.005564	2.5	PASS
Band II	9262	VN	30	-10.56	-0.005703	2.5	PASS
Band II	9262	VN	40	-11.66	-0.006294	2.5	PASS
Band II	9262	VN	50	-9.73	-0.005251	2.5	PASS
Band II	9400	VN	-30	-15.71	-0.008355	2.5	PASS
Band II	9400	VN	-20	-11.42	-0.006072	2.5	PASS
Band II	9400	VN	-10	-5.46	-0.002907	2.5	PASS
Band II	9400	VN	0	-7.15	-0.003801	2.5	PASS
Band II	9400	VN	10	-8.61	-0.004581	2.5	PASS
Band II	9400	VN	20	-11.78	-0.006266	2.5	PASS
Band II	9400	VN	30	-4.81	-0.002560	2.5	PASS
Band II	9400	VN	40	-5.50	-0.002926	2.5	PASS
Band II	9400	VN	50	-12.91	-0.006867	2.5	PASS
Band II	9538	VN	-30	-12.75	-0.006685	2.5	PASS
Band II	9538	VN	-20	-8.58	-0.004496	2.5	PASS
Band II	9538	VN	-10	-12.30	-0.006445	2.5	PASS
Band II	9538	VN	0	-10.20	-0.005347	2.5	PASS
Band II	9538	VN	10	-6.54	-0.003427	2.5	PASS
Band II	9538	VN	20	-11.75	-0.006160	2.5	PASS
Band II	9538	VN	30	-15.56	-0.008155	2.5	PASS
Band II	9538	VN	40	-13.72	-0.007192	2.5	PASS
Band II	9538	VN	50	-10.30	-0.005399	2.5	PASS
Band V	4132	VN	-30	-11.86	-0.014350	2.5	PASS
Band V	4132	VN	-20	-12.48	-0.015103	2.5	PASS
Band V	4132	VN	-10	-3.83	-0.004639	2.5	PASS
Band V	4132	VN	0	-6.37	-0.007703	2.5	PASS
Band V	4132	VN	10	-6.96	-0.008421	2.5	PASS
Band V	4132	VN	20	-9.57	-0.011580	2.5	PASS
Band V	4132	VN	30	-13.27	-0.016055	2.5	PASS
Band V	4132	VN	40	-6.79	-0.008214	2.5	PASS
Band V	4132	VN	50	-12.52	-0.015155	2.5	PASS
Band V	4182	VN	-30	-7.67	-0.009176	2.5	PASS
Band V	4182	VN	-20	-7.62	-0.009107	2.5	PASS
Band V	4182	VN	-10	-6.39	-0.007645	2.5	PASS
Band V	4182	VN	0	-6.06	-0.007243	2.5	PASS
Band V	4182	VN	10	-6.89	-0.008235	2.5	PASS
Band V	4182	VN	20	-8.63	-0.010313	2.5	PASS
Band V	4182	VN	30	-6.45	-0.007714	2.5	PASS
Band V	4182	VN	40	-5.15	-0.006157	2.5	PASS
Band V	4182	VN	50	-7.01	-0.008381	2.5	PASS
Band V	4233	VN	-30	-10.20	-0.012048	2.5	PASS

Band V	4233	VN	-20	-11.45	-0.013526	2.5	PASS
Band V	4233	VN	-10	-12.03	-0.014210	2.5	PASS
Band V	4233	VN	0	-7.01	-0.008280	2.5	PASS
Band V	4233	VN	10	-6.87	-0.008119	2.5	PASS
Band V	4233	VN	20	-14.51	-0.017134	2.5	PASS
Band V	4233	VN	30	-12.81	-0.015131	2.5	PASS
Band V	4233	VN	40	-10.01	-0.011828	2.5	PASS
Band V	4233	VN	50	-10.43	-0.012318	2.5	PASS

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