



## 8.1 Appendix A: Conducted Output Power

### Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	22.84	33	PASS
Band II	9400	23.05	33	PASS
Band II	9538	22.88	33	PASS
Band IV	1312	20.83	30	PASS
Band IV	1413	21.16	30	PASS
Band IV	1513	21.23	30	PASS
Band V	4132	24.55	38.5	PASS
Band V	4182	24.61	38.5	PASS
Band V	4233	24.39	38.5	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub0	21.91	33	PASS
Band II	9262	HSDPA_Sub1	21.45	33	PASS
Band II	9262	HSDPA_Sub2	21.41	33	PASS
Band II	9262	HSDPA_Sub3	21.42	33	PASS
Band II	9400	HSDPA_Sub0	21.93	33	PASS
Band II	9400	HSDPA_Sub1	21.57	33	PASS
Band II	9400	HSDPA_Sub2	21.62	33	PASS
Band II	9400	HSDPA_Sub3	21.65	33	PASS
Band II	9538	HSDPA_Sub0	21.84	33	PASS
Band II	9538	HSDPA_Sub1	21.47	33	PASS
Band II	9538	HSDPA_Sub2	21.49	33	PASS
Band II	9538	HSDPA_Sub3	21.40	33	PASS
Band IV	1312	HSDPA_Sub0	19.93	30	PASS
Band IV	1312	HSDPA_Sub1	19.50	30	PASS
Band IV	1312	HSDPA_Sub2	19.52	30	PASS
Band IV	1312	HSDPA_Sub3	19.52	30	PASS
Band IV	1413	HSDPA_Sub0	20.25	30	PASS
Band IV	1413	HSDPA_Sub1	19.83	30	PASS
Band IV	1413	HSDPA_Sub2	19.86	30	PASS
Band IV	1413	HSDPA_Sub3	20.08	30	PASS
Band IV	1513	HSDPA_Sub0	20.94	30	PASS
Band IV	1513	HSDPA_Sub1	20.61	30	PASS
Band IV	1513	HSDPA_Sub2	20.62	30	PASS
Band IV	1513	HSDPA_Sub3	20.52	30	PASS
Band V	4132	HSDPA_Sub0	23.52	38.5	PASS
Band V	4132	HSDPA_Sub1	23.10	38.5	PASS
Band V	4132	HSDPA_Sub2	23.14	38.5	PASS
Band V	4132	HSDPA_Sub3	23.14	38.5	PASS
Band V	4182	HSDPA_Sub0	23.58	38.5	PASS
Band V	4182	HSDPA_Sub1	23.19	38.5	PASS



Band V	4182	HSDPA_Sub2	23.14	38.5	PASS
Band V	4182	HSDPA_Sub3	23.14	38.5	PASS
Band V	4233	HSDPA_Sub0	23.40	38.5	PASS
Band V	4233	HSDPA_Sub1	22.88	38.5	PASS
Band V	4233	HSDPA_Sub2	22.93	38.5	PASS
Band V	4233	HSDPA_Sub3	22.93	38.5	PASS



Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	18.46	33	PASS
Band II	9262	HSUPA_Sub2	18.68	33	PASS
Band II	9262	HSUPA_Sub3	18.81	33	PASS
Band II	9262	HSUPA_Sub4	19.13	33	PASS
Band II	9262	HSUPA_Sub5	20.21	33	PASS
Band II	9400	HSUPA_Sub1	19.07	33	PASS
Band II	9400	HSUPA_Sub2	19.11	33	PASS
Band II	9400	HSUPA_Sub3	18.79	33	PASS
Band II	9400	HSUPA_Sub4	19.26	33	PASS
Band II	9400	HSUPA_Sub5	20.16	33	PASS
Band II	9538	HSUPA_Sub1	19.33	33	PASS
Band II	9538	HSUPA_Sub2	19.42	33	PASS
Band II	9538	HSUPA_Sub3	18.82	33	PASS
Band II	9538	HSUPA_Sub4	19.24	33	PASS
Band II	9538	HSUPA_Sub5	20.25	33	PASS
Band IV	1312	HSUPA_Sub1	19.32	30	PASS
Band IV	1312	HSUPA_Sub2	19.24	30	PASS
Band IV	1312	HSUPA_Sub3	18.82	30	PASS
Band IV	1312	HSUPA_Sub4	19.44	30	PASS
Band IV	1312	HSUPA_Sub5	20.37	30	PASS
Band IV	1413	HSUPA_Sub1	19.68	30	PASS
Band IV	1413	HSUPA_Sub2	19.36	30	PASS
Band IV	1413	HSUPA_Sub3	19.54	30	PASS
Band IV	1413	HSUPA_Sub4	19.77	30	PASS
Band IV	1413	HSUPA_Sub5	20.73	30	PASS
Band IV	1513	HSUPA_Sub1	19.45	30	PASS
Band IV	1513	HSUPA_Sub2	19.39	30	PASS
Band IV	1513	HSUPA_Sub3	18.86	30	PASS
Band IV	1513	HSUPA_Sub4	19.42	30	PASS
Band IV	1513	HSUPA_Sub5	20.48	30	PASS
Band V	4132	HSUPA_Sub1	20.33	38.5	PASS
Band V	4132	HSUPA_Sub2	20.21	38.5	PASS
Band V	4132	HSUPA_Sub3	19.74	38.5	PASS
Band V	4132	HSUPA_Sub4	20.58	38.5	PASS
Band V	4132	HSUPA_Sub5	21.52	38.5	PASS
Band V	4182	HSUPA_Sub1	20.24	38.5	PASS
Band V	4182	HSUPA_Sub2	20.11	38.5	PASS
Band V	4182	HSUPA_Sub3	19.35	38.5	PASS
Band V	4182	HSUPA_Sub4	20.42	38.5	PASS
Band V	4182	HSUPA_Sub5	21.55	38.5	PASS
Band V	4233	HSUPA_Sub1	20.21	38.5	PASS
Band V	4233	HSUPA_Sub2	20.18	38.5	PASS



Band V	4233	HSUPA_Sub3	19.71	38.5	PASS
Band V	4233	HSUPA_Sub4	20.46	38.5	PASS
Band V	4233	HSUPA_Sub5	21.28	38.5	PASS



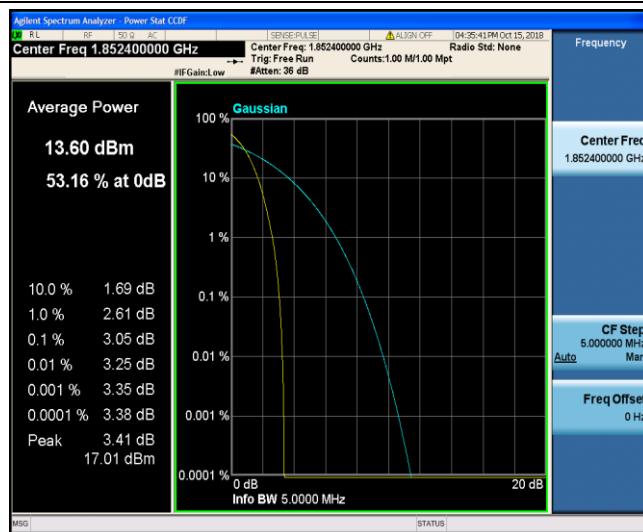
## 8.2 Appendix B: Peak-to-Average Ratio

Test Result

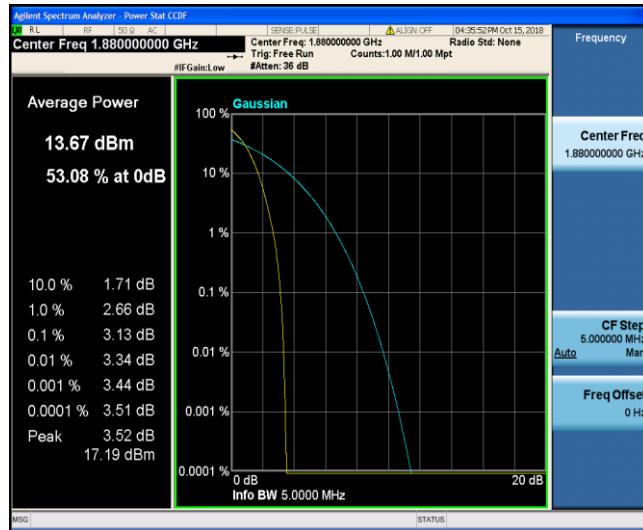
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.05	13	PASS
Band II	9400	3.13	13	PASS
Band II	9538	2.97	13	PASS
Band IV	1312	3.16	13	PASS
Band IV	1413	3.21	13	PASS
Band IV	1513	3.02	13	PASS
Band V	4132	2.93	13	PASS
Band V	4182	3.03	13	PASS
Band V	4233	2.95	13	PASS



## Test Graphs



## Band II\_9262



## Band II\_9400



## Band II\_9538

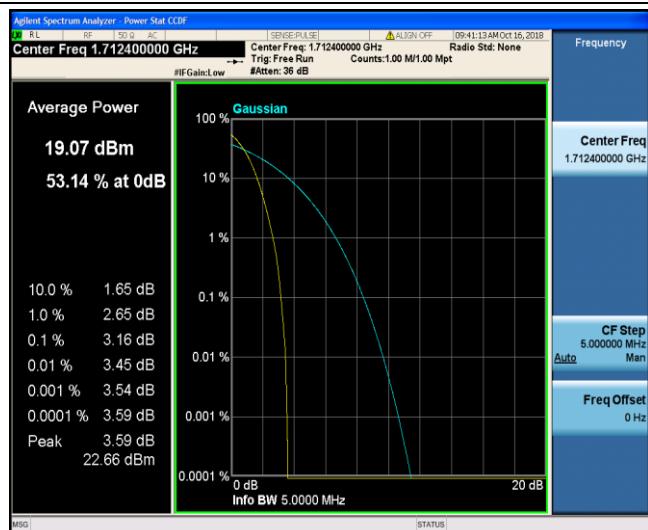


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#### Band IV\_1312



#### Band IV\_1413



#### Band IV\_1513



Report No.:

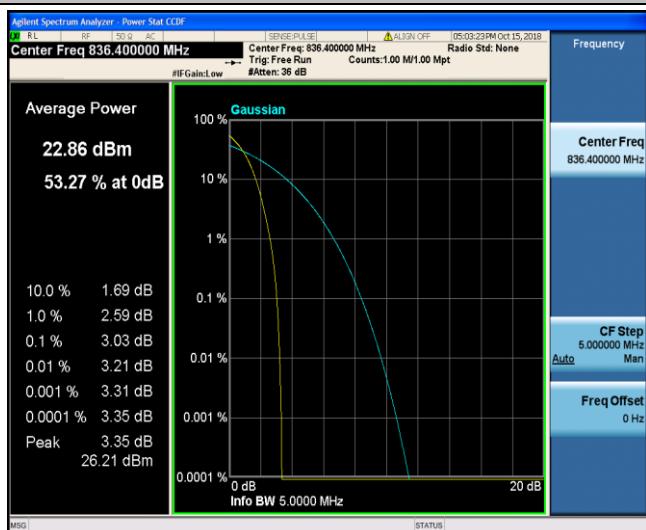
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Issued:

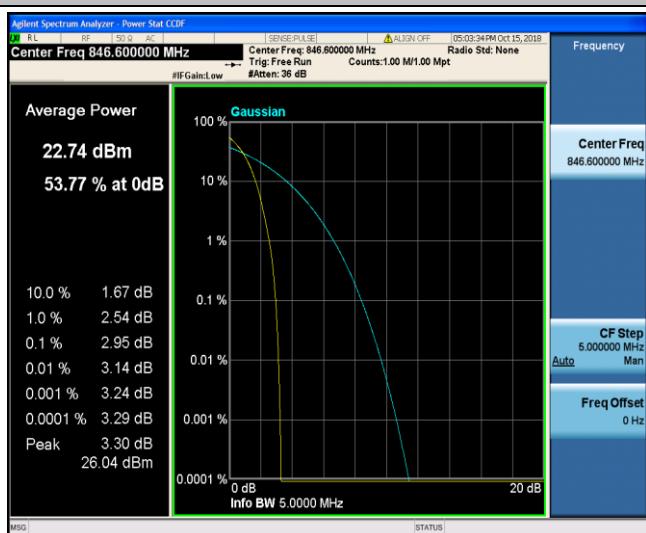
2018-10-22



## Band V\_4132



## Band V\_4182



## Band V\_4233



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

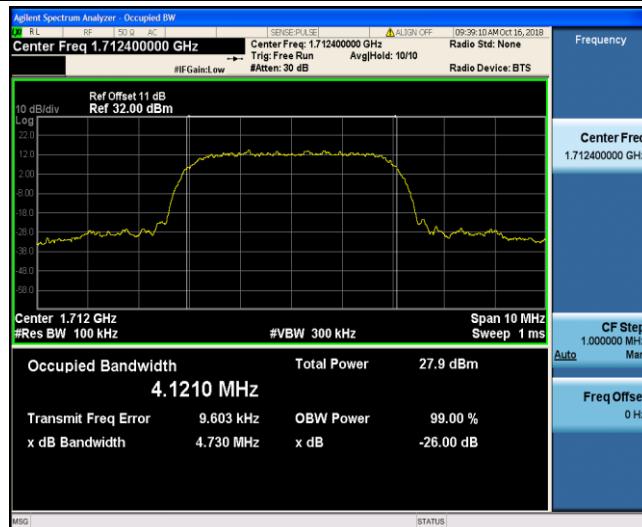
Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4121.1	4719	---	PASS
Band II	9400	4127.6	4701	---	PASS
Band II	9538	4123.1	4716	---	PASS
Band IV	1312	4121.0	4730	---	PASS
Band IV	1413	4136.3	4720	---	PASS
Band IV	1513	4118.6	4716	---	PASS
Band V	4132	4116.6	4713	---	PASS
Band V	4182	4120.1	4712	---	PASS
Band V	4233	4125.1	4706	---	PASS

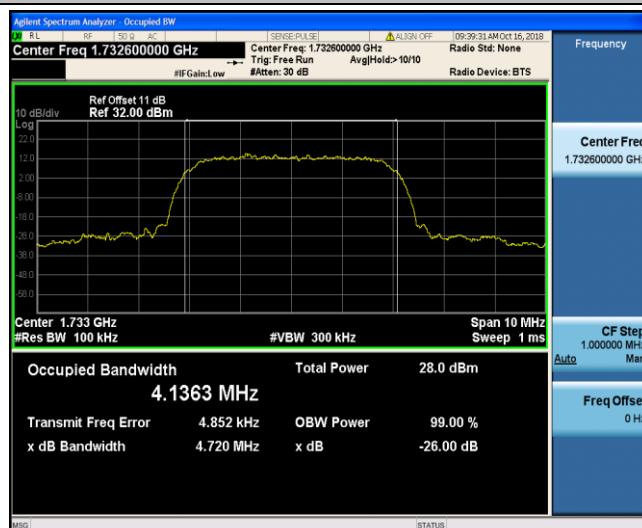


## Test Graphs

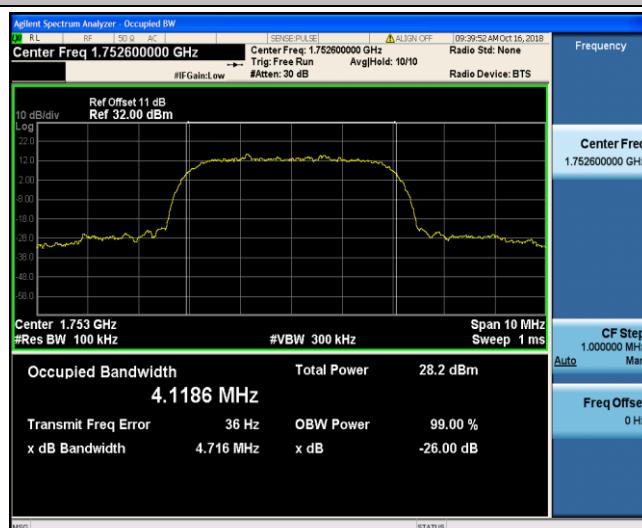




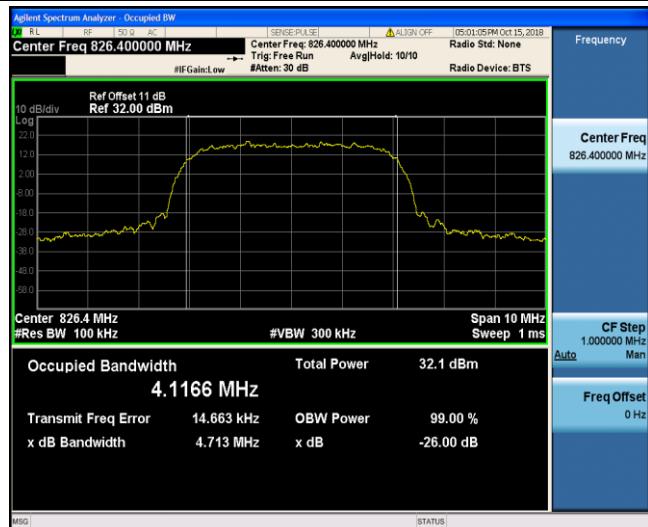
#### Band IV\_1312



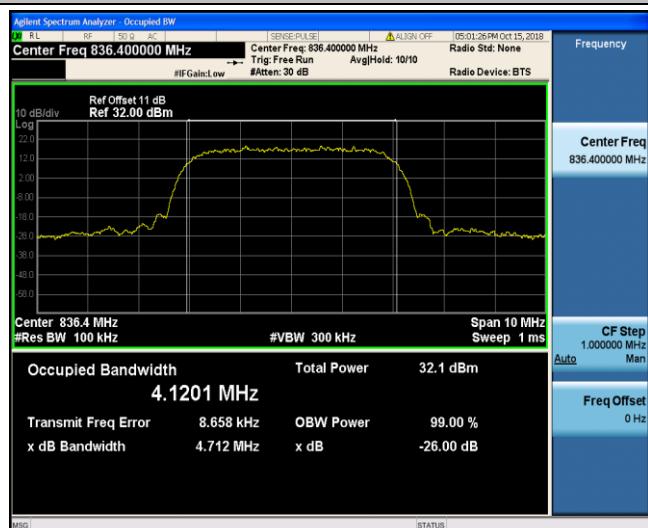
#### Band IV\_1413



#### Band IV\_1513



### Band V\_4132



### Band V\_4182



### Band V\_4233



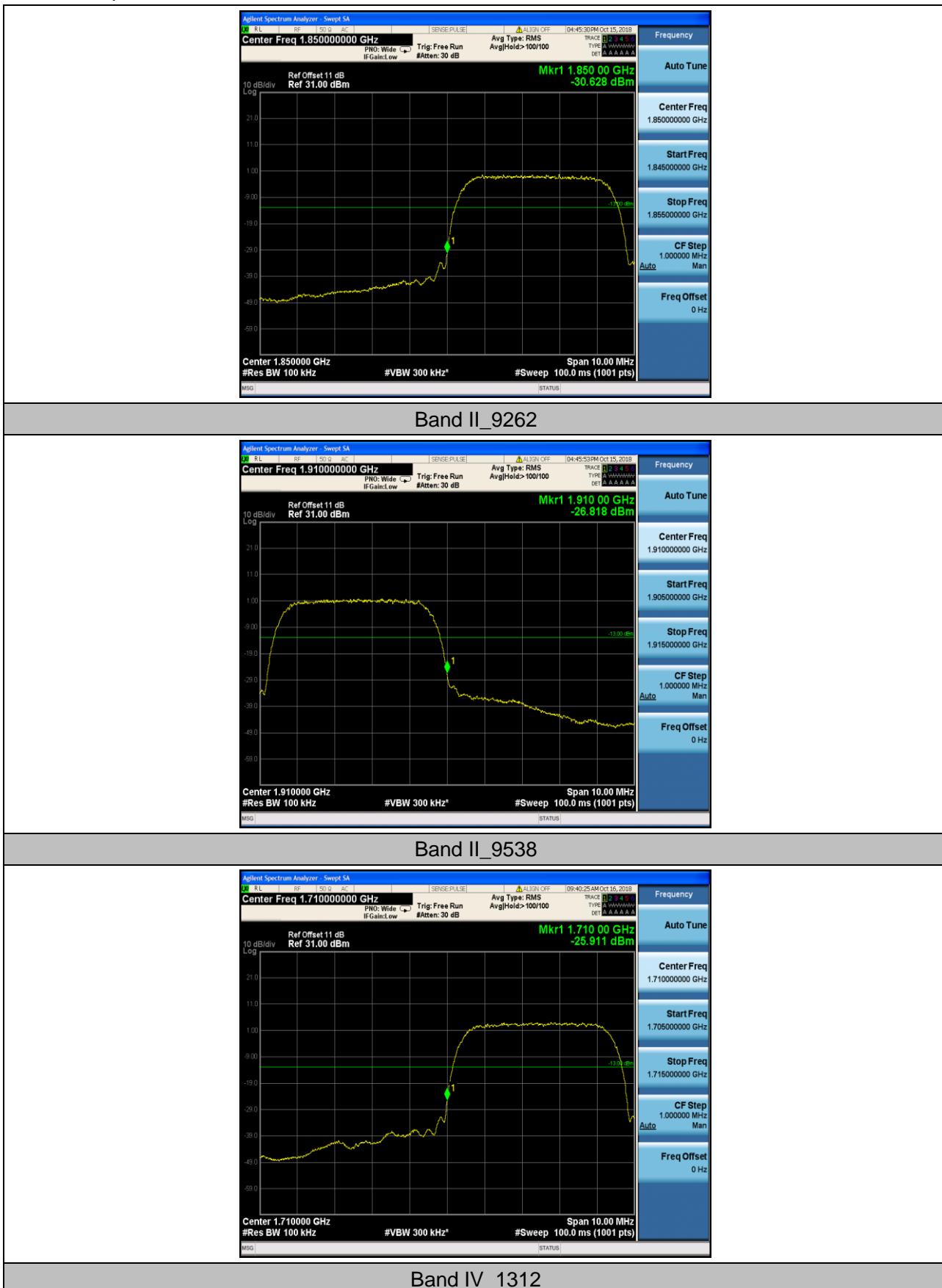
#### 8.4 Appendix D: Band Edge

Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-30.63	-13	PASS
Band II	9538	-26.82	-13	PASS
Band IV	1312	-25.91	-13	PASS
Band IV	1513	-25.33	-13	PASS
Band V	4132	-21.35	-13	PASS
Band V	4233	-22.44	-13	PASS



## Test Graphs





Band IV 1513



Band V 4132



Band V 4233



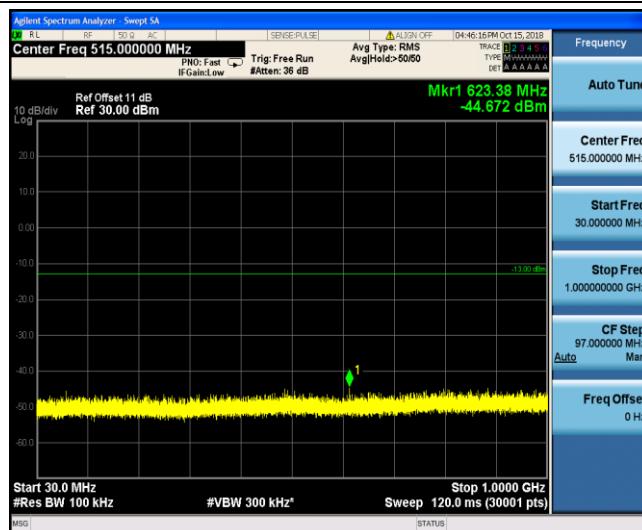
## 8.5 Appendix E: Conducted Spurious Emission

### Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	30~1000	-44.67	-13	PASS
Band II	9262	1000~20000	-33.97	-13	PASS
Band II	9400	30~1000	-44.18	-13	PASS
Band II	9400	1000~20000	-33.89	-13	PASS
Band II	9538	30~1000	-43.86	-13	PASS
Band II	9538	1000~20000	-33.88	-13	PASS
Band IV	1312	30~1000	-43.85	-13	PASS
Band IV	1312	1000~20000	-33.82	-13	PASS
Band IV	1413	30~1000	-44.49	-13	PASS
Band IV	1413	1000~20000	-33.64	-13	PASS
Band IV	1513	30~1000	-44.70	-13	PASS
Band IV	1513	1000~20000	-33.97	-13	PASS
Band V	4132	30~1000	-44.59	-13	PASS
Band V	4132	1000~20000	-33.89	-13	PASS
Band V	4182	30~1000	-44.23	-13	PASS
Band V	4182	1000~20000	-33.78	-13	PASS
Band V	4233	30~1000	-43.98	-13	PASS
Band V	4233	1000~20000	-33.81	-13	PASS



## Test Graphs



Band II\_9262



Band II\_9262



Band II\_9400



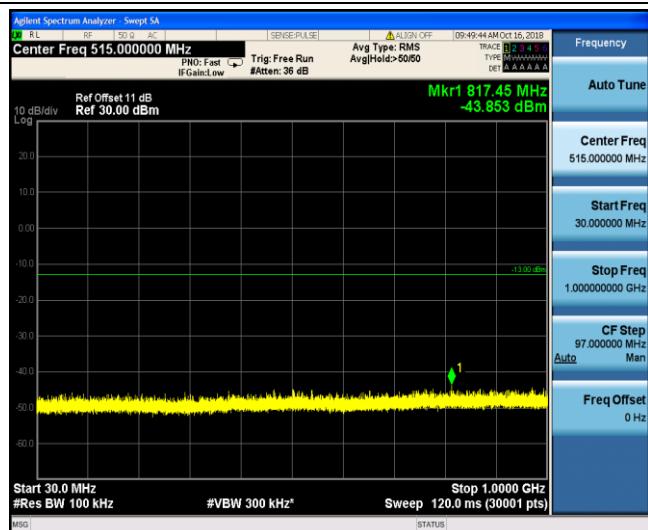
Band II\_9400



Band II\_9538



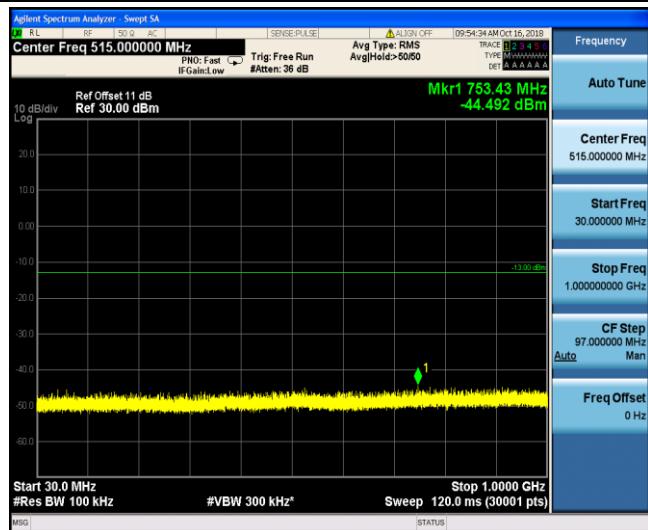
Band II\_9538



## Band IV\_1312



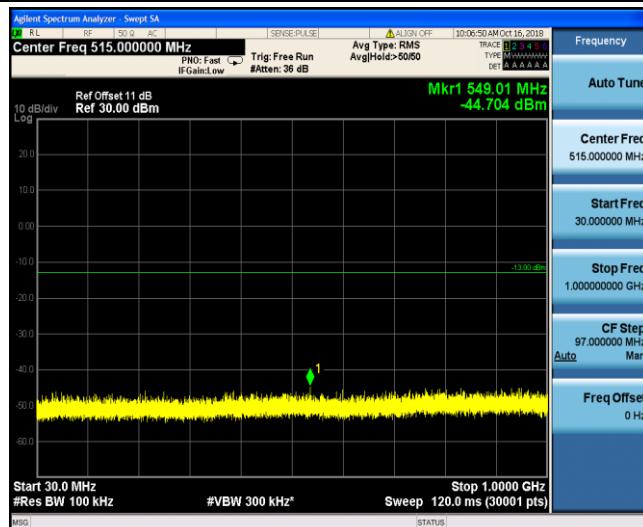
## Band IV\_1312



## Band IV\_1413



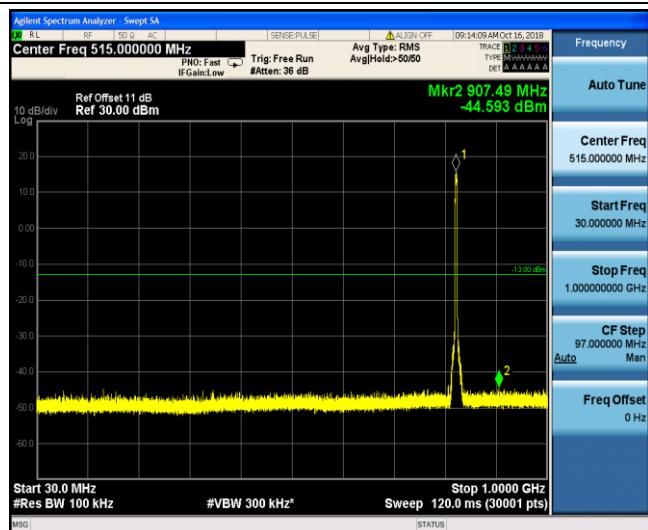
## Band IV\_1413



## Band IV\_1513



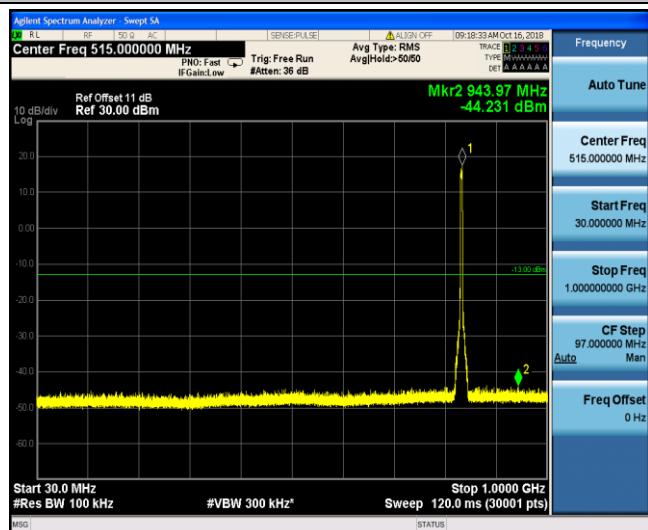
## Band IV\_1513



## Band V\_4132



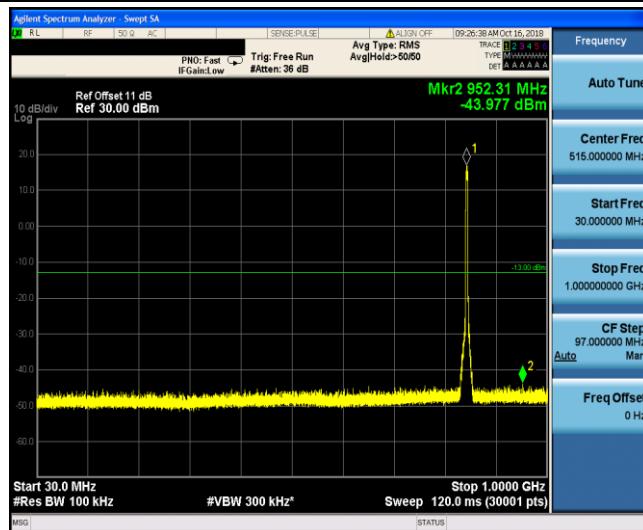
## Band V\_4132



## Band V\_4182



## Band V\_4182



## Band V\_4233



## Band V\_4233



## 8.6 Appendix F: Frequency Stability

### Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Voltage			
				Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-0.78	-0.000421	2.5	PASS
Band II	9262	VN	TN	-0.72	-0.000386	2.5	PASS
Band II	9262	VH	TN	-1.33	-0.000718	2.5	PASS
Band II	9400	VL	TN	-1.79	-0.000951	2.5	PASS
Band II	9400	VN	TN	-1.70	-0.000902	2.5	PASS
Band II	9400	VH	TN	-0.24	-0.000126	2.5	PASS
Band II	9538	VL	TN	-0.89	-0.000469	2.5	PASS
Band II	9538	VN	TN	-0.57	-0.000296	2.5	PASS
Band II	9538	VH	TN	-1.51	-0.000791	2.5	PASS
Band IV	1312	VL	TN	1.05	0.000614	2.5	PASS
Band IV	1312	VN	TN	1.43	0.000835	2.5	PASS
Band IV	1312	VH	TN	1.20	0.000702	2.5	PASS
Band IV	1413	VL	TN	0.27	0.000157	2.5	PASS
Band IV	1413	VN	TN	0.63	0.000363	2.5	PASS
Band IV	1413	VH	TN	0.36	0.000211	2.5	PASS
Band IV	1513	VL	TN	1.07	0.000612	2.5	PASS
Band IV	1513	VN	TN	0.59	0.000335	2.5	PASS
Band IV	1513	VH	TN	1.85	0.001057	2.5	PASS
Band V	4132	VL	TN	-0.17	-0.000208	2.5	PASS
Band V	4132	VN	TN	0.72	0.000866	2.5	PASS
Band V	4132	VH	TN	-1.24	-0.001497	2.5	PASS
Band V	4182	VL	TN	-0.25	-0.000299	2.5	PASS
Band V	4182	VN	TN	-0.36	-0.000436	2.5	PASS
Band V	4182	VH	TN	0.11	0.000137	2.5	PASS
Band V	4233	VL	TN	-0.03	-0.000034	2.5	PASS
Band V	4233	VN	TN	0.74	0.000870	2.5	PASS
Band V	4233	VH	TN	-0.25	-0.000296	2.5	PASS



Temperature							
Band	Channel	Voltage (Vdc)	Temperatur e (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-0.75	-0.000405	2.5	PASS
Band II	9262	VN	-20	-1.19	-0.000645	2.5	PASS
Band II	9262	VN	-10	0.72	0.000386	2.5	PASS
Band II	9262	VN	0	-0.04	-0.000023	2.5	PASS
Band II	9262	VN	10	-0.94	-0.000510	2.5	PASS
Band II	9262	VN	20	-0.27	-0.000147	2.5	PASS
Band II	9262	VN	30	-1.22	-0.000656	2.5	PASS
Band II	9262	VN	40	-1.93	<b>-0.001043</b>	2.5	PASS
Band II	9262	VN	50	0.97	0.000525	2.5	PASS
Band II	9400	VN	-30	-0.04	-0.000019	2.5	PASS
Band II	9400	VN	-20	-1.94	-0.001031	2.5	PASS
Band II	9400	VN	-10	-0.99	-0.000525	2.5	PASS
Band II	9400	VN	0	-0.61	-0.000323	2.5	PASS
Band II	9400	VN	10	-0.53	-0.000282	2.5	PASS
Band II	9400	VN	20	-0.77	-0.000411	2.5	PASS
Band II	9400	VN	30	0.96	0.000510	2.5	PASS
Band II	9400	VN	40	-0.38	-0.000202	2.5	PASS
Band II	9400	VN	50	-1.21	-0.000643	2.5	PASS
Band II	9538	VN	-30	-0.54	-0.000281	2.5	PASS
Band II	9538	VN	-20	-0.64	-0.000334	2.5	PASS
Band II	9538	VN	-10	0.28	0.000146	2.5	PASS
Band II	9538	VN	0	-1.06	-0.000555	2.5	PASS
Band II	9538	VN	10	1.00	0.000525	2.5	PASS
Band II	9538	VN	20	-0.50	-0.000262	2.5	PASS
Band II	9538	VN	30	-0.49	-0.000259	2.5	PASS
Band II	9538	VN	40	-0.76	-0.000397	2.5	PASS
Band II	9538	VN	50	-1.54	-0.000806	2.5	PASS
Band IV	1312	VN	-30	0.33	0.000192	2.5	PASS
Band IV	1312	VN	-20	0.30	0.000175	2.5	PASS
Band IV	1312	VN	-10	0.72	0.000418	2.5	PASS
Band IV	1312	VN	0	1.45	0.000848	2.5	PASS
Band IV	1312	VN	10	1.54	0.000902	2.5	PASS
Band IV	1312	VN	20	0.14	0.000079	2.5	PASS
Band IV	1312	VN	30	0.60	0.000351	2.5	PASS
Band IV	1312	VN	40	0.87	0.000505	2.5	PASS
Band IV	1312	VN	50	1.54	0.000898	2.5	PASS
Band IV	1413	VN	-30	0.49	0.000281	2.5	PASS
Band IV	1413	VN	-20	-0.77	-0.000446	2.5	PASS
Band IV	1413	VN	-10	0.01	0.000008	2.5	PASS
Band IV	1413	VN	0	0.82	0.000475	2.5	PASS
Band IV	1413	VN	10	0.98	0.000566	2.5	PASS
Band IV	1413	VN	20	1.18	0.000681	2.5	PASS
Band IV	1413	VN	30	-0.71	-0.000409	2.5	PASS
Band IV	1413	VN	40	0.74	0.000429	2.5	PASS
Band IV	1413	VN	50	-0.54	-0.000310	2.5	PASS
Band IV	1513	VN	-30	-0.32	-0.000184	2.5	PASS
Band IV	1513	VN	-20	1.30	0.000743	2.5	PASS
Band IV	1513	VN	-10	1.06	0.000604	2.5	PASS



Band IV	1513	VN	0	1.14	0.000653	2.5	PASS
Band IV	1513	VN	10	0.30	0.000171	2.5	PASS
Band IV	1513	VN	20	0.52	0.000298	2.5	PASS
Band IV	1513	VN	30	0.14	0.000082	2.5	PASS
Band IV	1513	VN	40	1.28	0.000731	2.5	PASS
Band IV	1513	VN	50	0.80	0.000457	2.5	PASS
Band V	4132	VN	-30	-1.28	-0.001549	2.5	PASS
Band V	4132	VN	-20	-1.25	-0.001515	2.5	PASS
Band V	4132	VN	-10	0.49	0.000589	2.5	PASS
Band V	4132	VN	0	0.04	0.000052	2.5	PASS
Band V	4132	VN	10	-0.12	-0.000147	2.5	PASS
Band V	4132	VN	20	0.21	0.000260	2.5	PASS
Band V	4132	VN	30	1.09	0.001324	2.5	PASS
Band V	4132	VN	40	-0.11	-0.000130	2.5	PASS
Band V	4132	VN	50	0.53	0.000640	2.5	PASS
Band V	4182	VN	-30	-0.66	-0.000787	2.5	PASS
Band V	4182	VN	-20	0.49	0.000590	2.5	PASS
Band V	4182	VN	-10	-0.75	-0.000898	2.5	PASS
Band V	4182	VN	0	-1.19	-0.001420	2.5	PASS
Band V	4182	VN	10	0.06	0.000068	2.5	PASS
Band V	4182	VN	20	-0.86	-0.001026	2.5	PASS
Band V	4182	VN	30	-0.11	-0.000137	2.5	PASS
Band V	4182	VN	40	-0.62	-0.000735	2.5	PASS
Band V	4182	VN	50	0.21	0.000257	2.5	PASS
Band V	4233	VN	-30	-0.31	-0.000372	2.5	PASS
Band V	4233	VN	-20	-0.09	-0.000110	2.5	PASS
Band V	4233	VN	-10	-0.26	-0.000313	2.5	PASS
Band V	4233	VN	0	-0.15	-0.000177	2.5	PASS
Band V	4233	VN	10	-0.04	-0.000051	2.5	PASS
Band V	4233	VN	20	-0.04	-0.000051	2.5	PASS
Band V	4233	VN	30	0.29	0.000346	2.5	PASS
Band V	4233	VN	40	0.40	0.000473	2.5	PASS
Band V	4233	VN	50	-0.22	-0.000262	2.5	PASS

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