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Appendix B

WCDMA Band II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result(Down Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.25	23.25	33.00	PASS
Band II	9400	23.27	23.27	33.00	PASS
Band II	9538	23.19	23.19	33.00	PASS
Band IV	1312	23.07	23.02	30.00	PASS
Band IV	1413	23.06	23.01	30.00	PASS
Band IV	1513	23.07	23.02	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.31	18.12	38.45	PASS
Band V	4182	23.4	18.21	38.45	PASS
Band V	4233	23.29	18.1	38.45	PASS

1.2. Test Result(Up Antenna)

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	20.72	14.12	38.45	PASS
Band V	4182	20.79	14.19	38.45	PASS
Band V	4233	20.77	14.17	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



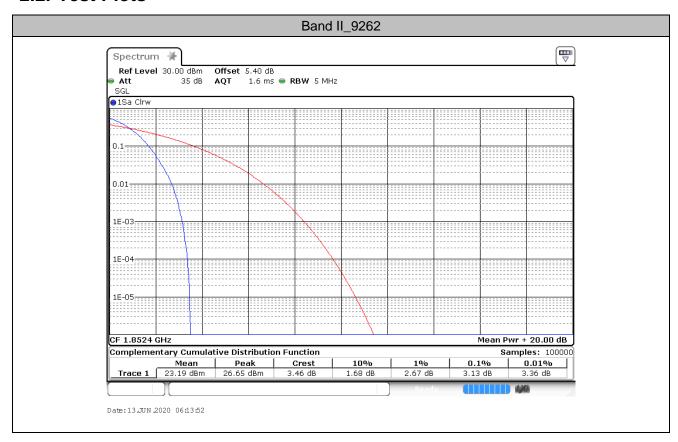
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.07	13	PASS
Band II	9538	2.90	13	PASS
Band IV	1312	3.10	13	PASS
Band IV	1413	3.04	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	3.07	13	PASS
Band V	4182	3.13	13	PASS
Band V	4233	2.81	13	PASS

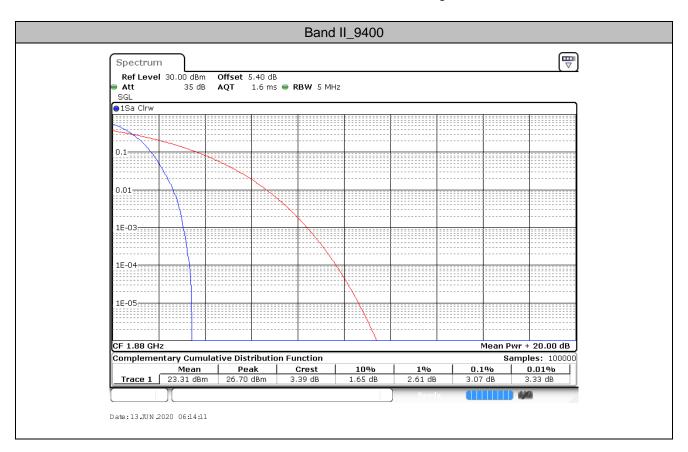
2.2. Test Plots





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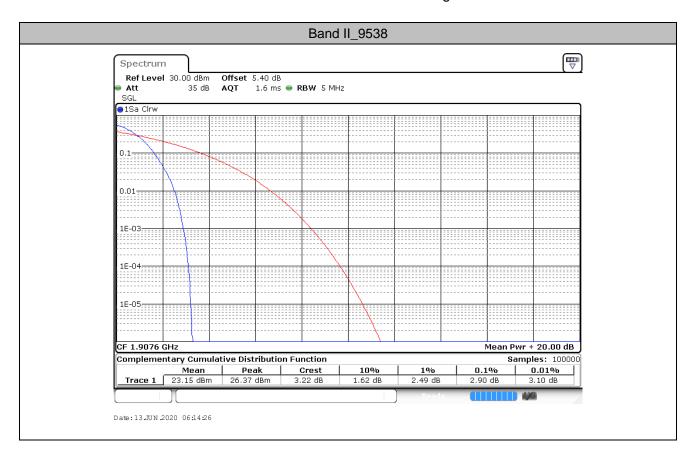
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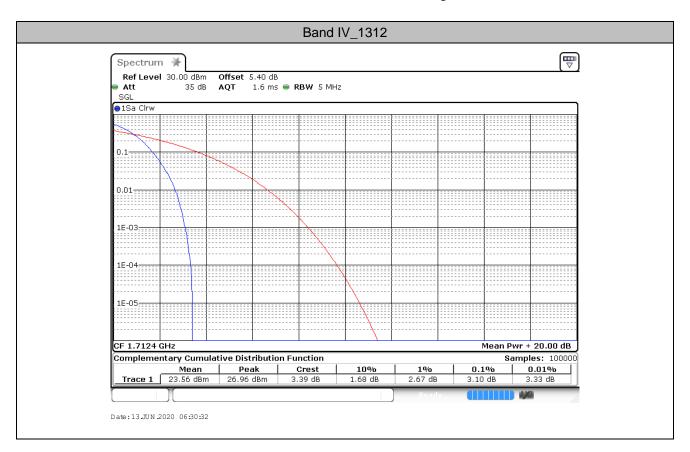
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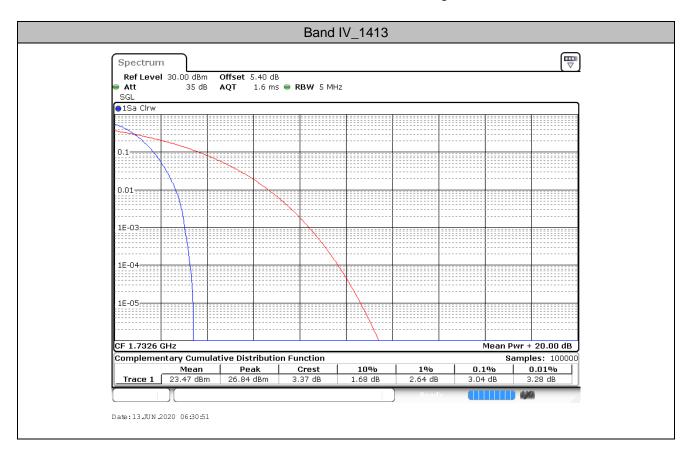
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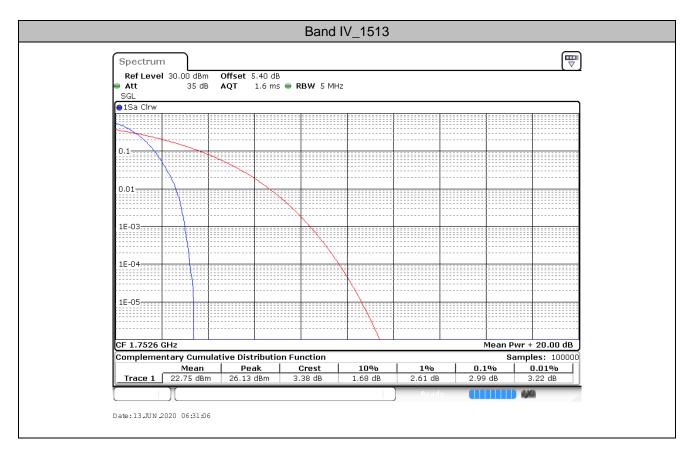
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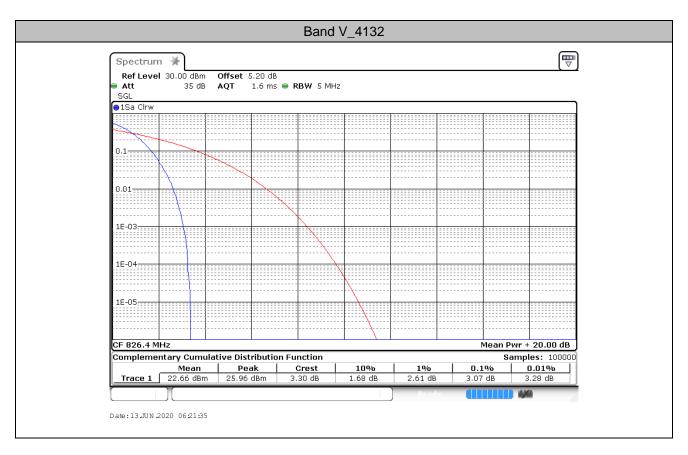
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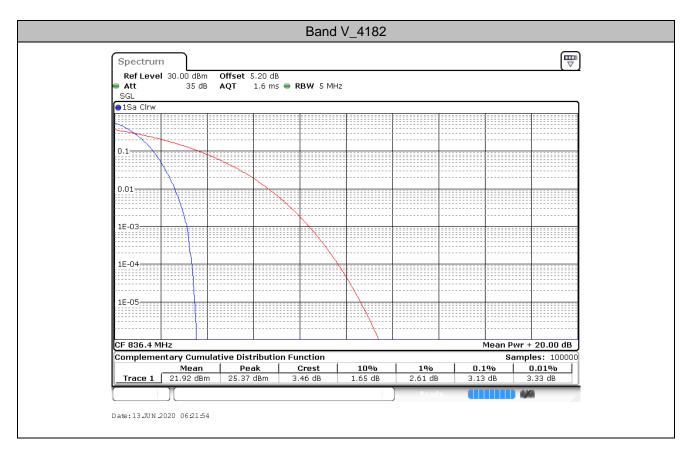
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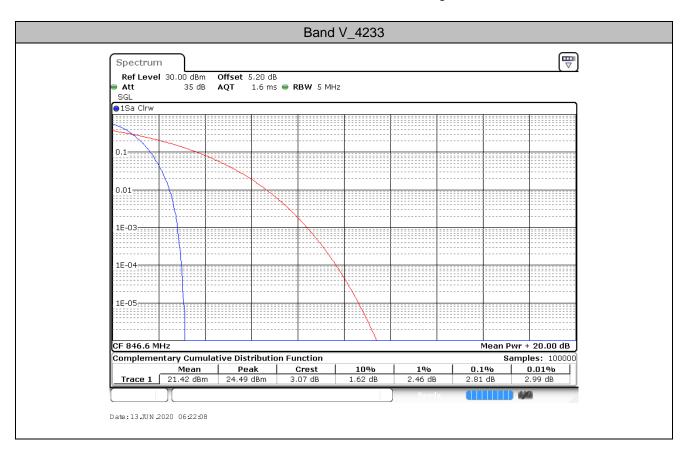
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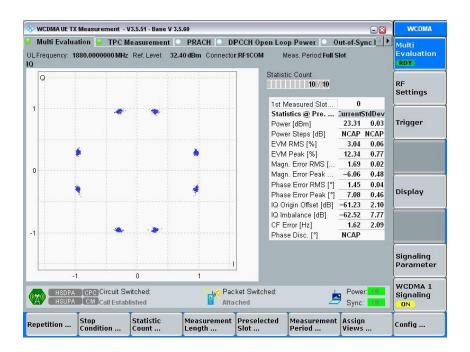
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1.Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



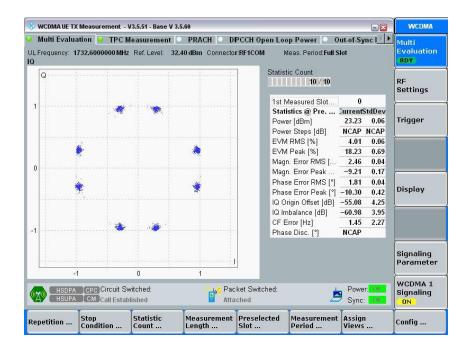


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3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.2.1.1.



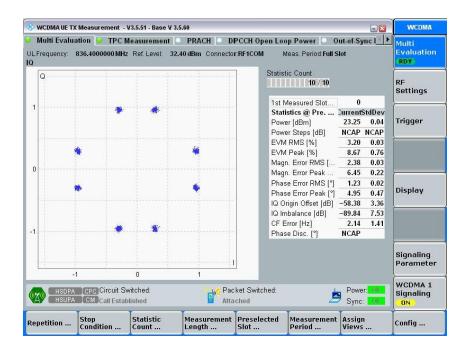


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3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.3.1.1.





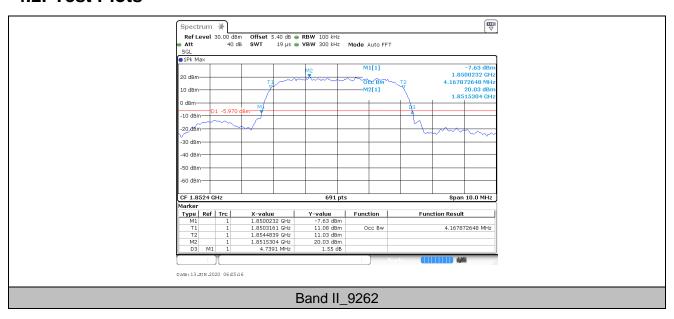
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4167.9	4739		PASS
Band II	9400	4167.9	4725		PASS
Band II	9538	4167.9	4739		PASS
Band IV	1312	4167.9	4725		PASS
Band IV	1413	4167.9	4725		PASS
Band IV	1513	4182.3	4826		PASS
Band V	4132	4153.4	4725		PASS
Band V	4182	4167.9	4725		PASS
Band V	4233	4196.8	5159		PASS

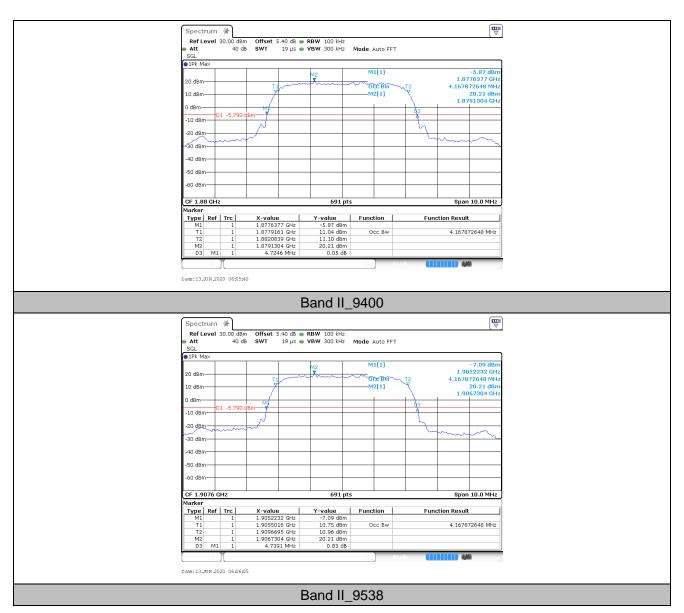
4.2. Test Plots





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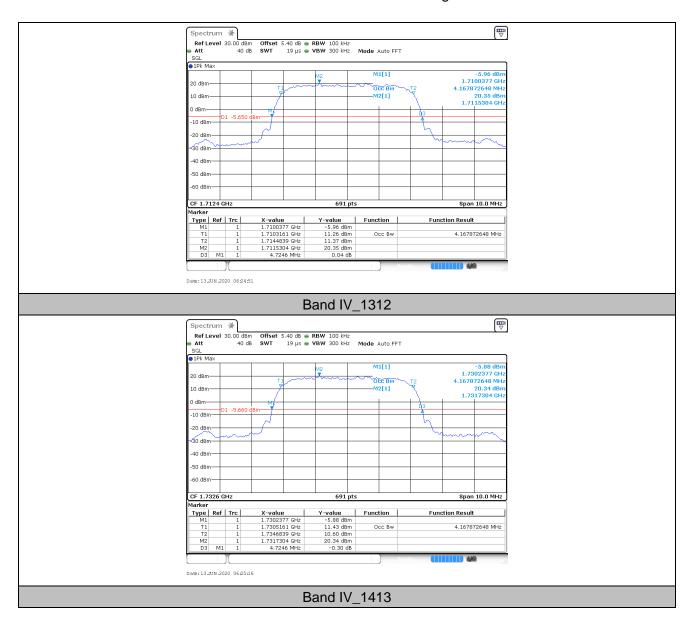
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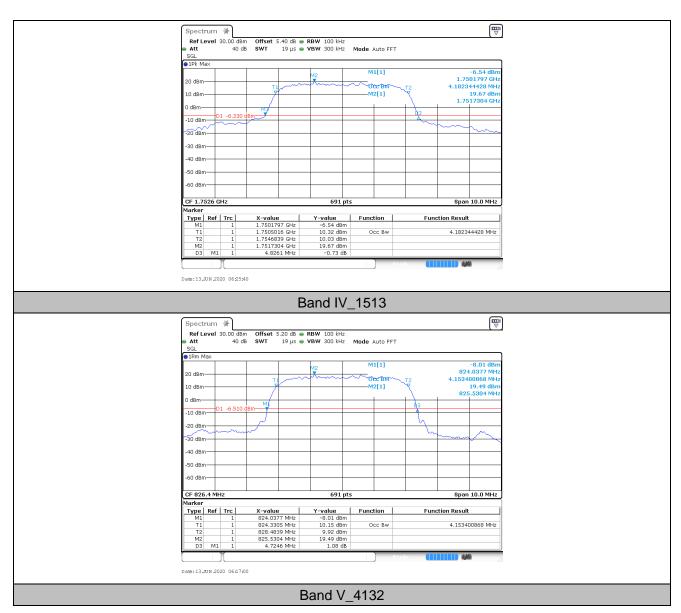
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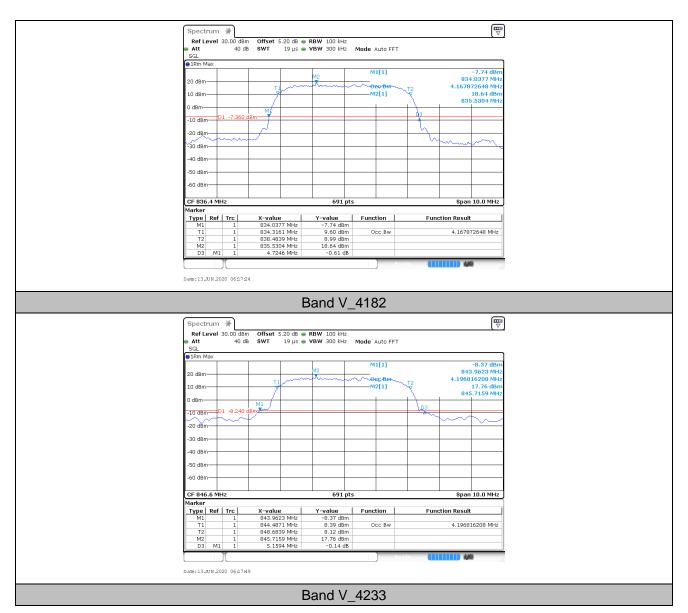
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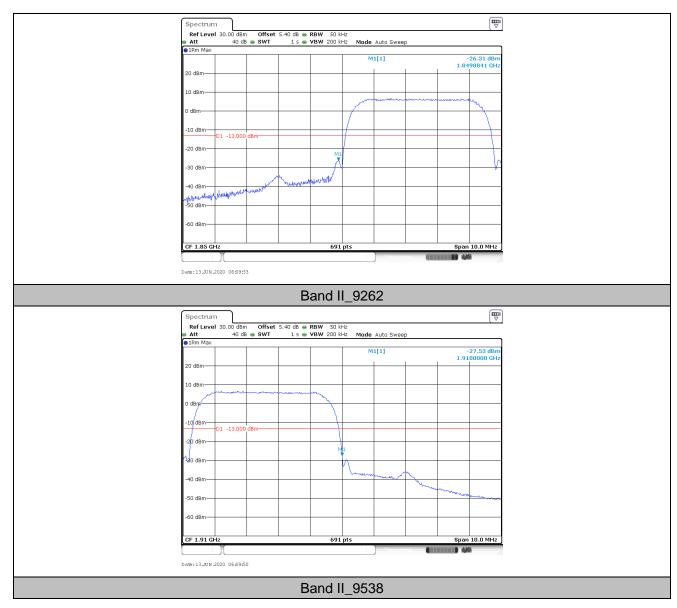




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5. Band Edge Compliance

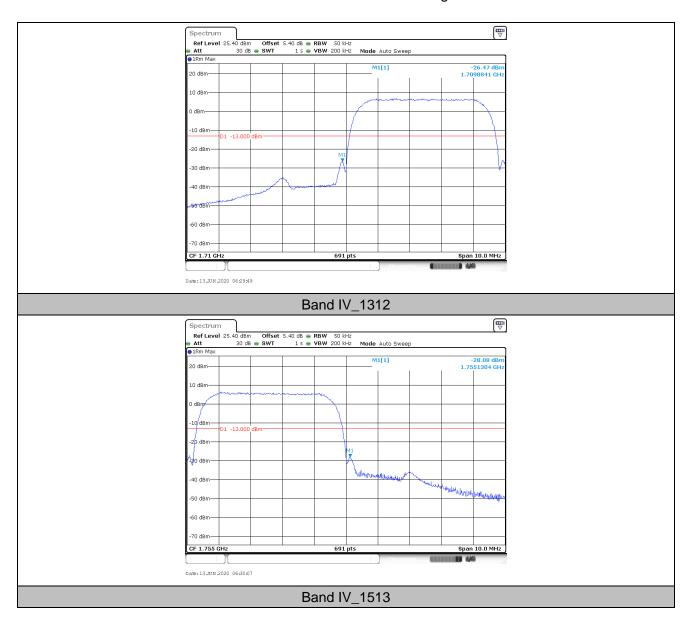
5.1. Test Plots





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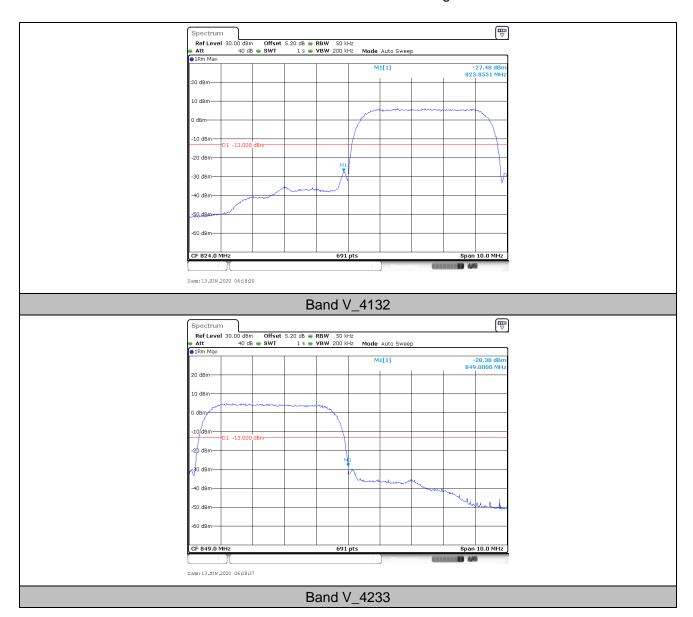
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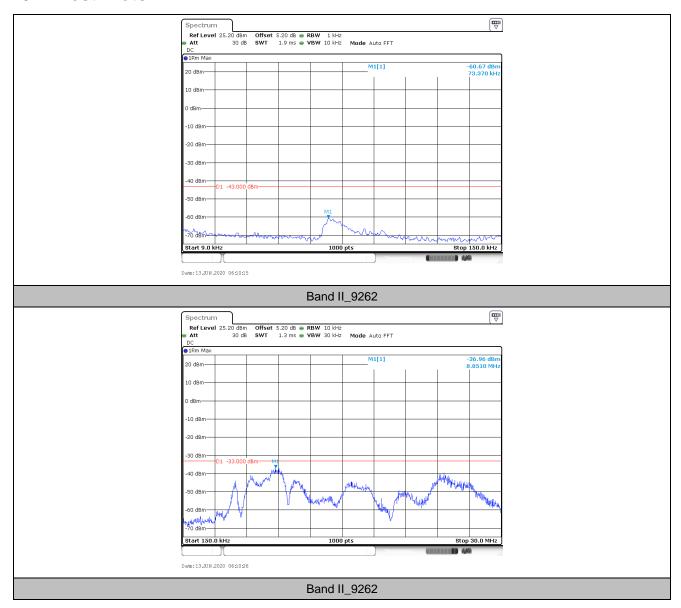


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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. Remark2: only the worst case data displayed in this report.

6.1. Test Plots

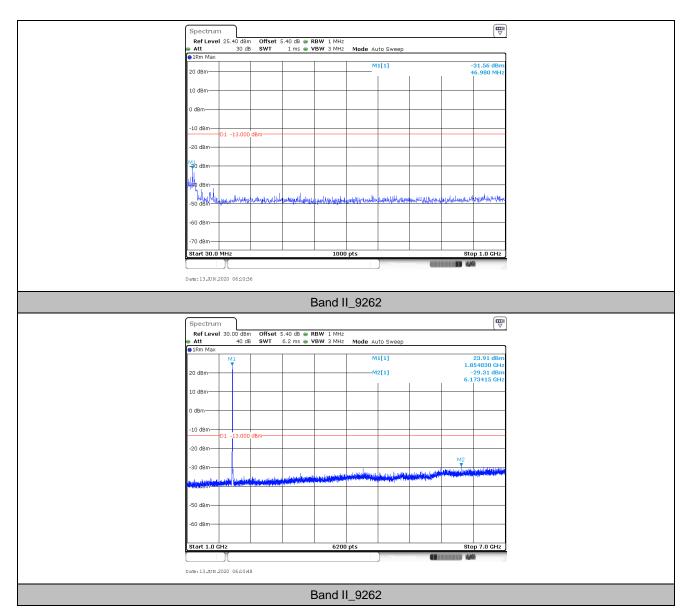






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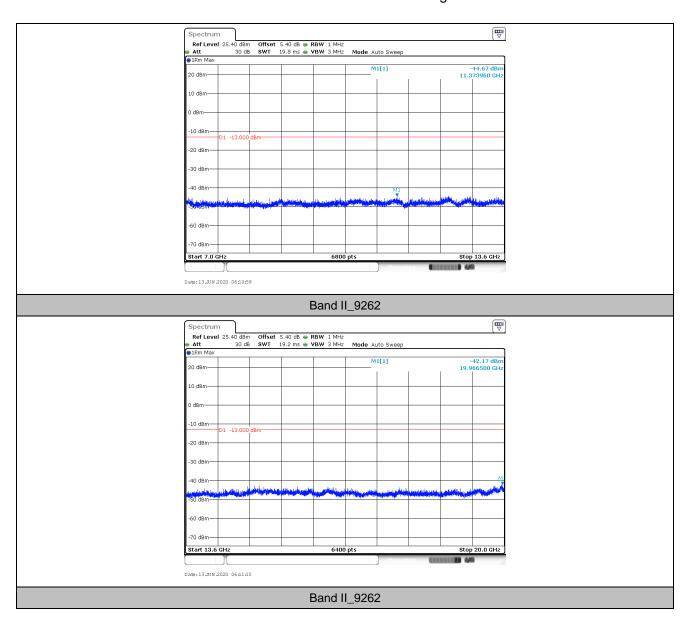
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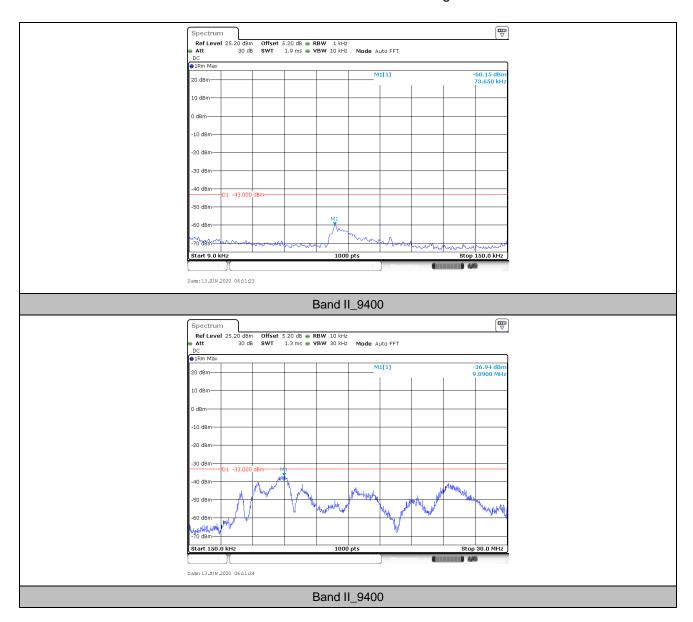
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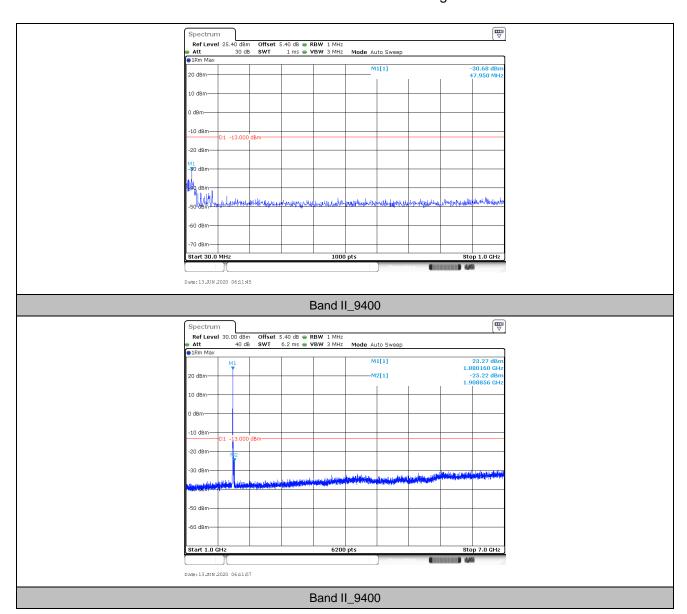






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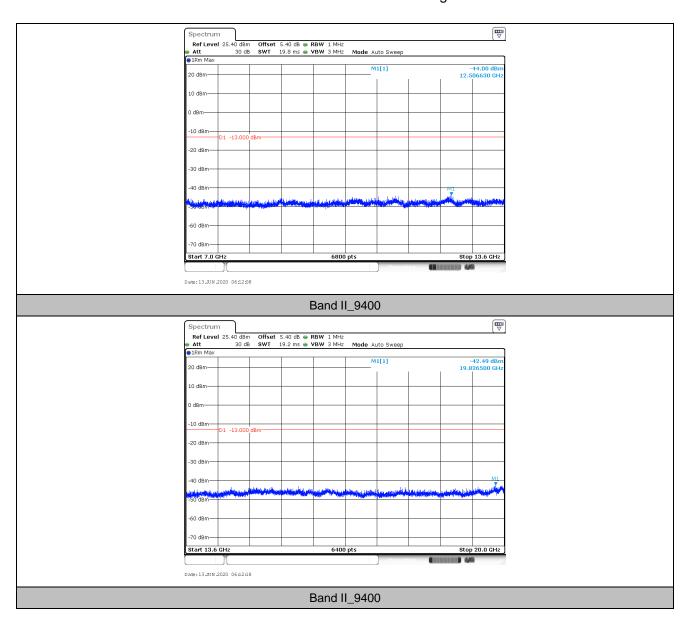
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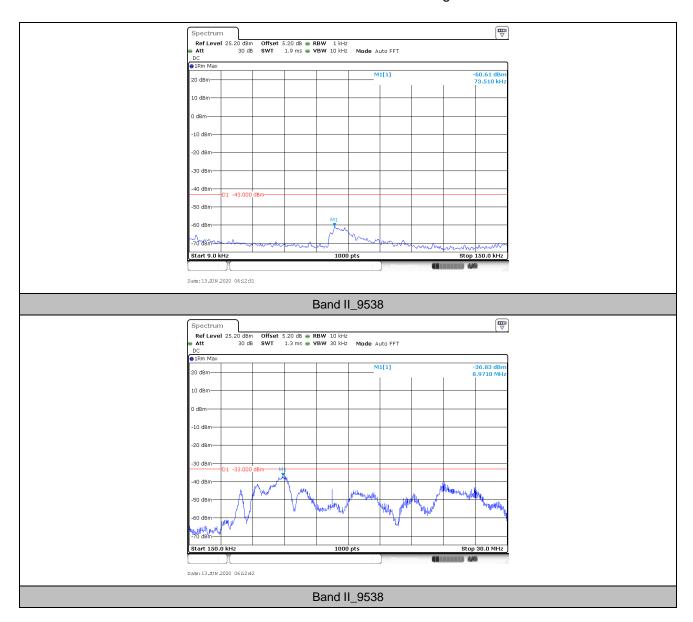
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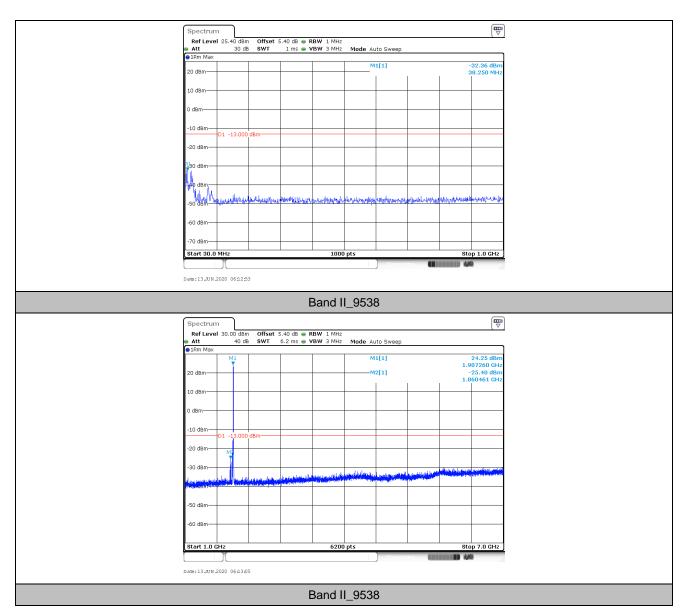






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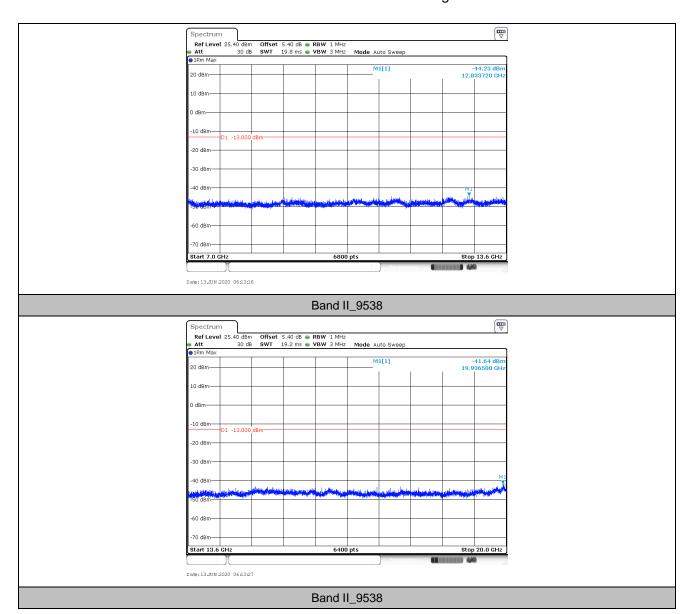
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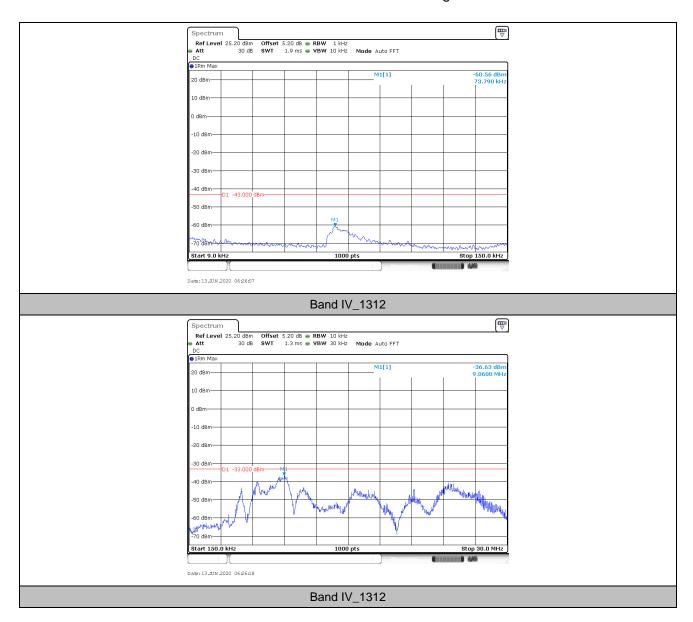
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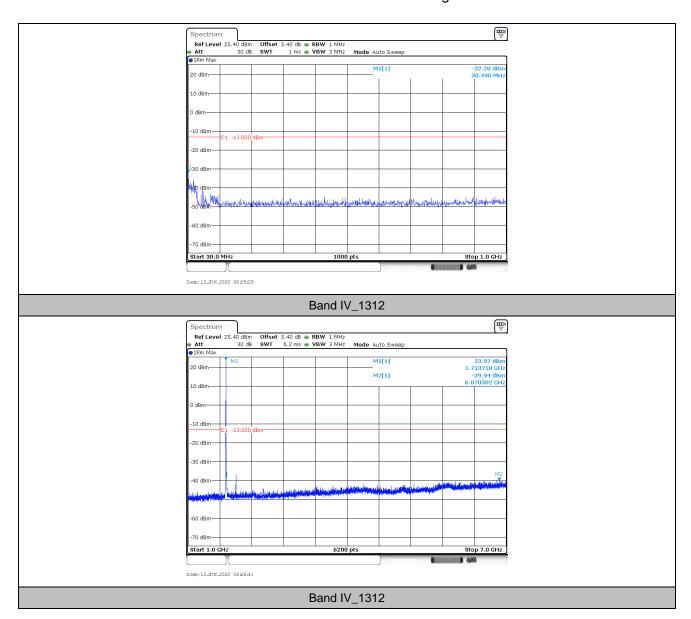






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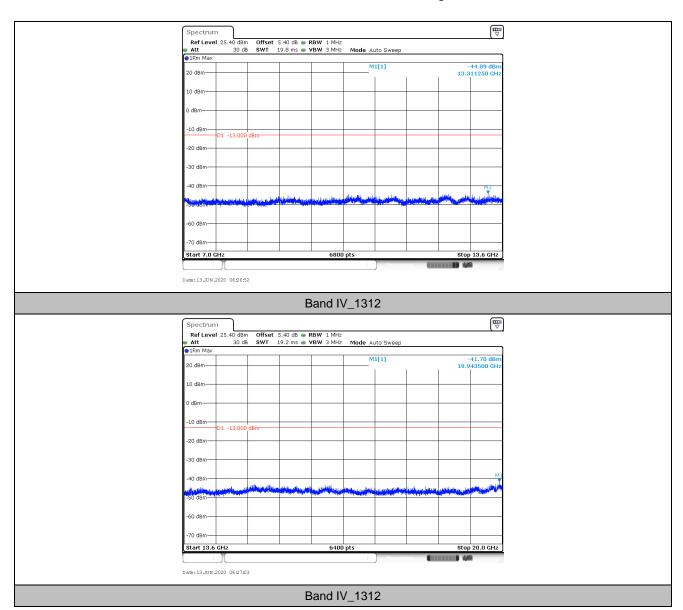






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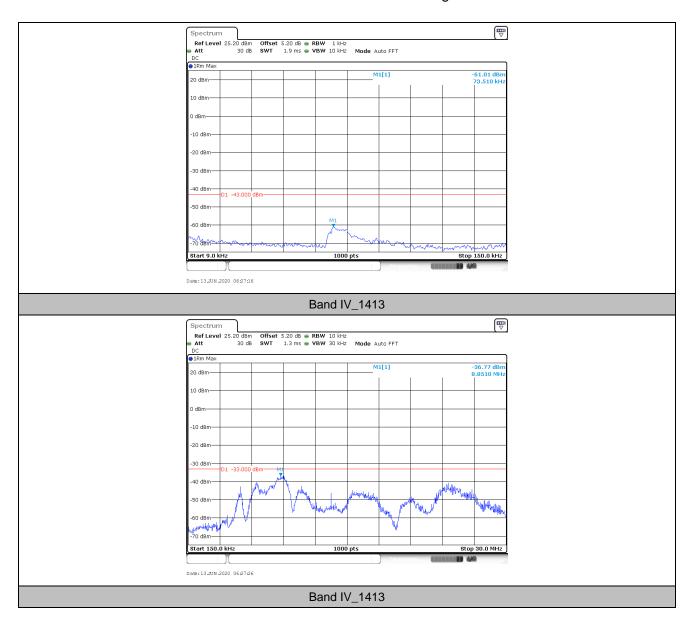
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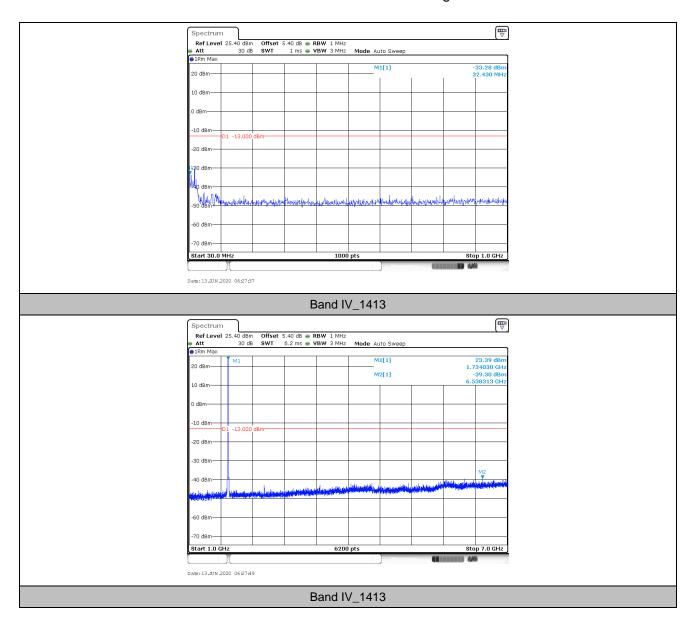






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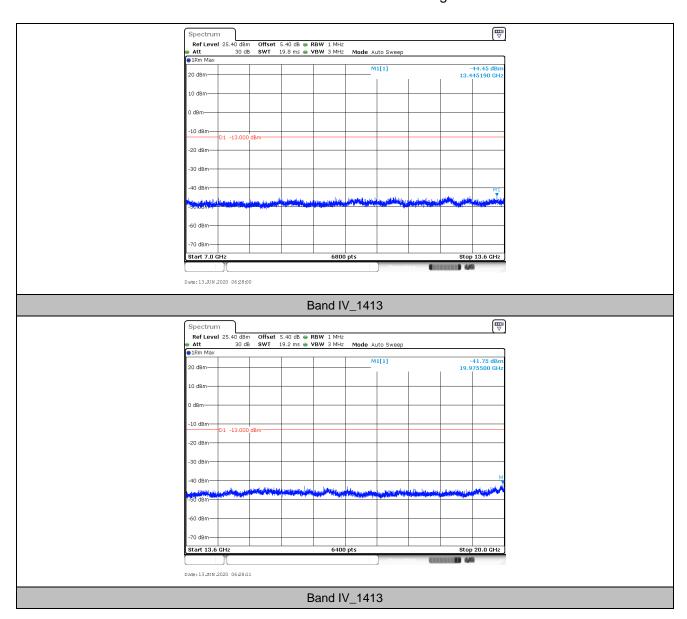
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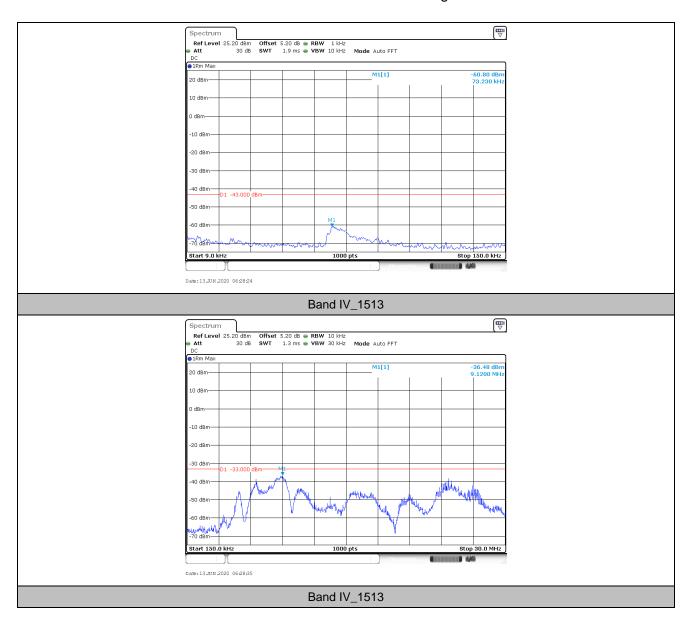
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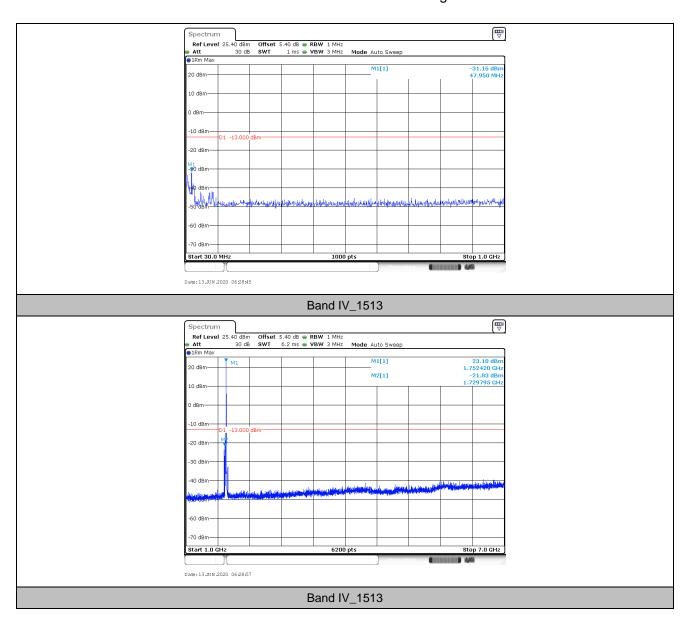






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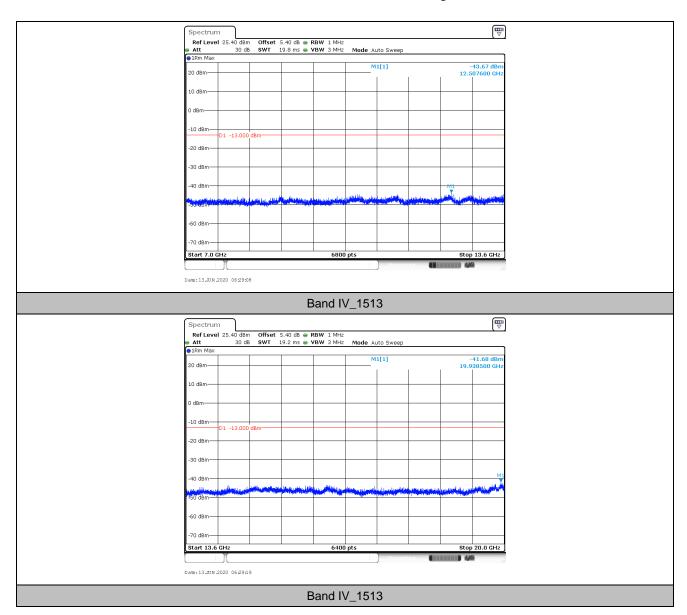






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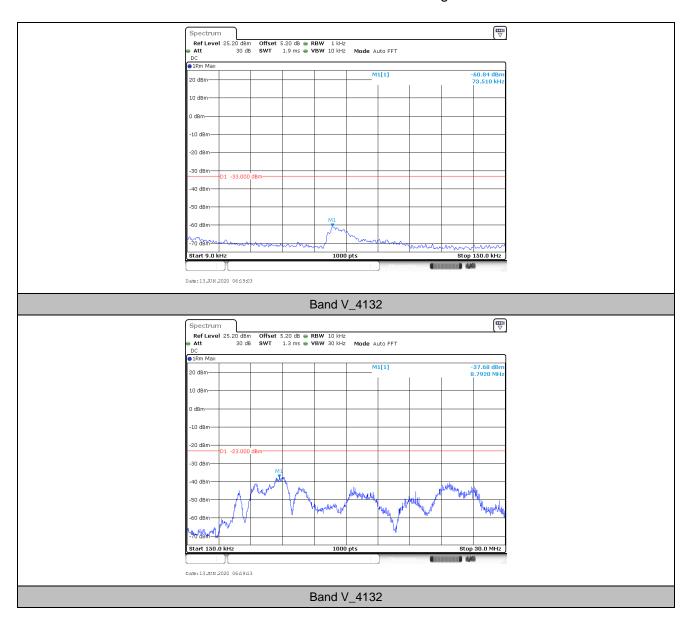


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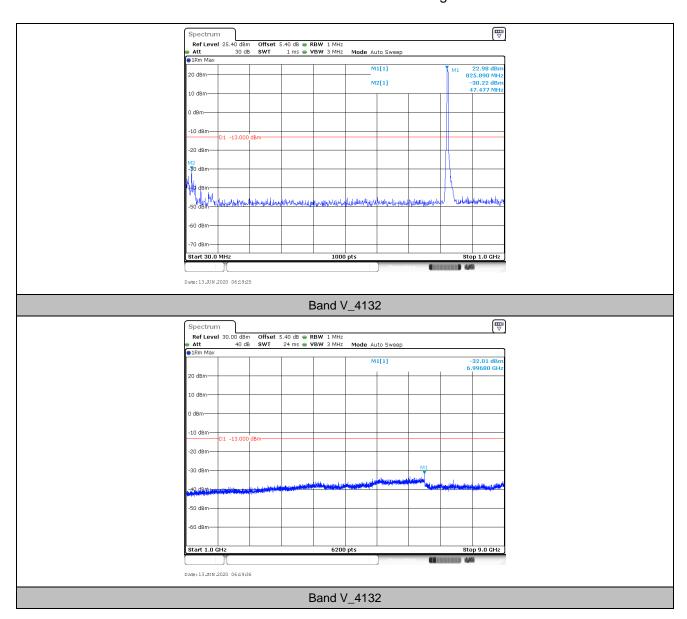






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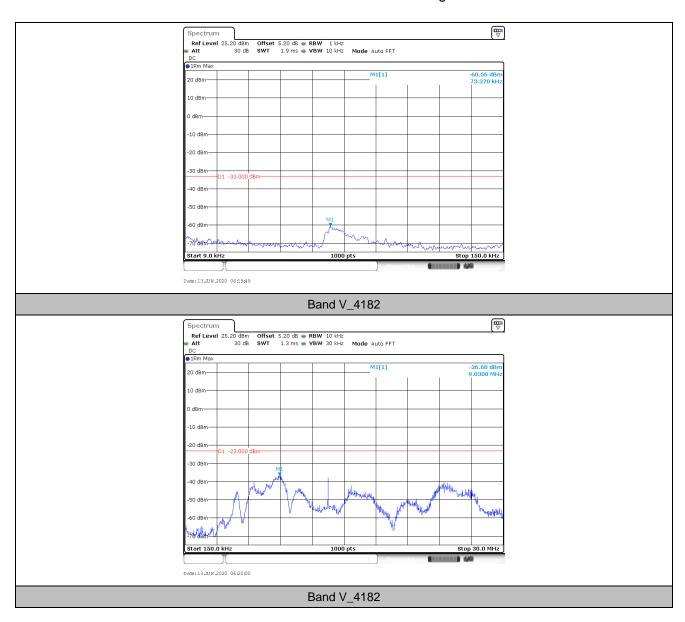
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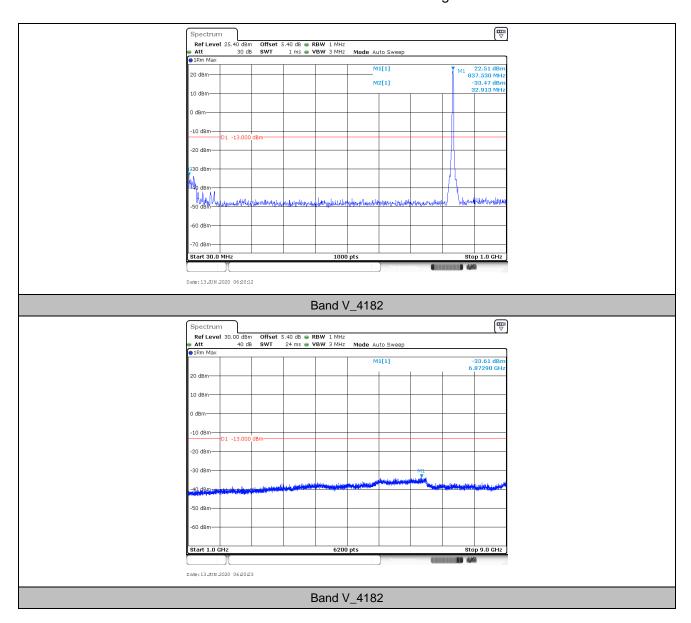
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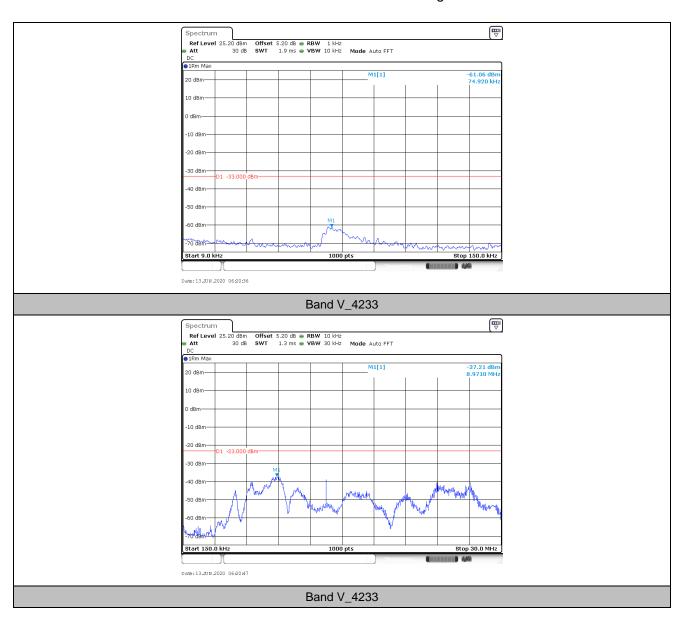
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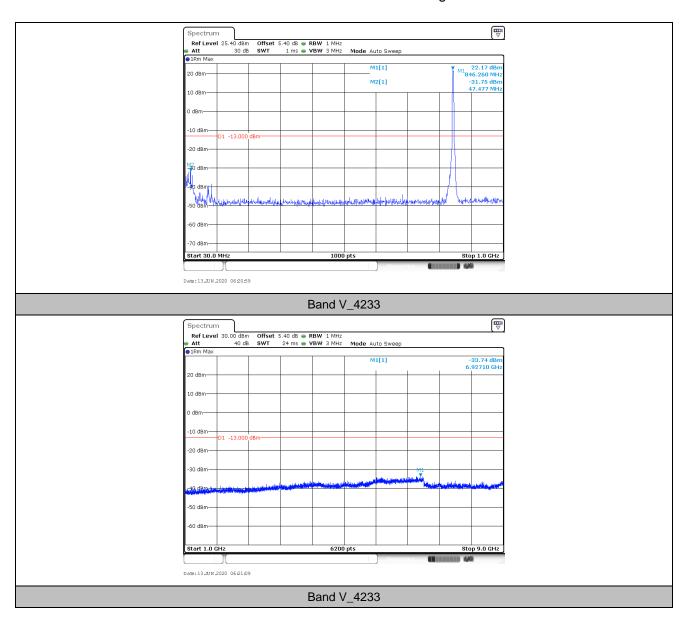
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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1.Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.2926	-72.08	-13.00	59.08	Vertical
111.7266	-64.92	-13.00	51.92	Vertical
491.7916	-66.28	-13.00	53.28	Vertical
2701.1402	-36.51	-13.00	23.51	Vertical
7409.6470	-52.24	-13.00	39.24	Vertical
17995.9999	-38.03	-13.00	25.03	Vertical
40.9130	-64.09	-13.00	51.09	Horizontal
232.3036	-68.15	-13.00	55.15	Horizontal
617.6069	-64.00	-13.00	51.00	Horizontal
2699.5399	-35.48	-13.00	22.48	Horizontal
7359.6453	-56.02	-13.00	43.02	Horizontal
16392.4464	-42.41	-13.00	29.41	Horizontal



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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
51.3411	-72.35	-13.00	59.35	Vertical	
110.9505	-65.11	-13.00	52.11	Vertical	
559.2585	-65.47	-13.00	52.47	Vertical	
2695.1390	-36.53	-13.00	23.53	Vertical	
7520.1507	-54.22	-13.00	41.22	Vertical	
17997.9999	-38.61	-13.00	25.61	Vertical	
41.4466	-64.01	-13.00	51.01	Horizontal	
246.0783	-68.11	-13.00	55.11	Horizontal	
528.6534	-65.13	-13.00	52.13	Horizontal	
2698.3397	-35.44	-13.00	22.44	Horizontal	
7938.6646	-55.63	-13.00	42.63	Horizontal	
16403.4468	-42.38	-13.00	29.38	Horizontal	

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
58.5679	-71.52	-13.00	58.52	Vertical
111.1446	-64.47	-13.00	51.47	Vertical
574.6822	-65.29	-13.00	52.29	Vertical
2701.9404	-36.69	-13.00	23.69	Vertical
7351.6451	-55.07	-13.00	42.07	Vertical
17983.4995	-38.31	-13.00	25.31	Vertical
42.1741	-64.56	-13.00	51.56	Horizontal
238.3179	-68.15	-13.00	55.15	Horizontal
629.7325	-62.35	-13.00	49.35	Horizontal
2698.7397	-35.39	-13.00	22.39	Horizontal
7967.6656	-55.57	-13.00	42.57	Horizontal
16396.4465	-42.65	-13.00	29.65	Horizontal



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7.2. Test Band = WCDMA Band IV

7.2.1.Test Mode = WCDMA/TM1

Test Channel = LCH 7.2.1.1.

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
47.9944	-69.92	-13.00	56.92	Vertical	
110.3200	-62.96	-13.00	49.96	Vertical	
588.3599	-60.79	-13.00	47.79	Vertical	
2697.5395	-32.07	-13.00	19.07	Vertical	
7247.1416	-53.46	-13.00	40.46	Vertical	
17992.9998	-33.02	-13.00	20.02	Vertical	
43.5807	-62.56	-13.00	49.56	Horizontal	
241.1311	-64.82	-13.00	51.82	Horizontal	
514.1027	-62.83	-13.00	49.83	Horizontal	
2699.1398	-30.91	-13.00	17.91	Horizontal	
7476.6492	-53.28	-13.00	40.28	Horizontal	
16398.9466	-34.70	-13.00	21.70	Horizontal	



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
46.9758	-70.82	-13.00	57.82	Vertical	
114.1517	-62.06	-13.00	49.06	Vertical	
597.2359	-60.94	-13.00	47.94	Vertical	
2702.7405	-31.98	-13.00	18.98	Vertical	
7447.1482	-52.77	-13.00	39.77	Vertical	
17989.9997	-33.21	-13.00	20.21	Vertical	
44.0657	-62.75	-13.00	49.75	Horizontal	
236.0383	-65.41	-13.00	52.41	Horizontal	
594.0832	-61.06	-13.00	48.06	Horizontal	
2707.1414	-30.61	-13.00	17.61	Horizontal	
7476.1492	-53.03	-13.00	40.03	Horizontal	
16400.4467	-34.73	-13.00	21.73	Horizontal	

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
50.3710	-13.00	57.48	-1.21	Vertical	
110.1745	-13.00	48.71	6.39	Vertical	
581.2301	-13.00	49.08	6.71	Vertical	
2707.9416	-13.00	18.78	31.56	Vertical	
7482.6494	-13.00	39.77	0.16	Vertical	
17999.0000	-13.00	20.26	17.85	Vertical	
42.1256	-62.11	-13.00	49.11	Horizontal	
233.7102	-65.72	-13.00	52.72	Horizontal	
548.1029	-62.25	-13.00	49.25	Horizontal	
2701.9404	-30.86	-13.00	17.86	Horizontal	
6577.6193	-55.90	-13.00	42.90	Horizontal	
16395.4465	-34.54	-13.00	21.54	Horizontal	



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7.3. Test Band = WCDMA Band V

7.3.1.Test Mode = WCDMA/TM1

Test Channel = LCH 7.3.1.1.

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
51.9716	-72.37	-13.00	59.37	Vertical	
115.9948	-64.89	-13.00	51.89	Vertical	
434.1222	-66.63	-13.00	53.63	Vertical	
2603.9208	-51.35	-13.00	38.35	Vertical	
7366.6456	-55.23	-13.00	42.23	Vertical	
17994.4998	-38.28	-13.00	25.28	Vertical	
44.5022	-63.86	-13.00	50.86	Horizontal	
242.8286	-68.41	-13.00	55.41	Horizontal	
486.4563	-66.93	-13.00	53.93	Horizontal	
2697.9396	-50.79	-13.00	37.79	Horizontal	
7354.1451	-56.03	-13.00	43.03	Horizontal	
16393.4464	-42.39	-13.00	29.39	Horizontal	



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7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
51.7291	-72.14	-13.00	59.14	Vertical	
109.2530	-64.77	-13.00	51.77	Vertical	
458.2764	-66.70	-13.00	53.70	Vertical	
3000.0000	-51.37	-13.00	38.37	Vertical	
7347.1449	-55.70	-13.00	42.70	Vertical	
17997.4999	-38.52	-13.00	25.52	Vertical	
45.3753	-63.68	-13.00	50.68	Horizontal	
223.9127	-68.76	-13.00	55.76	Horizontal	
590.4455	-64.17	-13.00	51.17	Horizontal	
2699.9400	-50.72	-13.00	37.72	Horizontal	
7498.6500	-56.11	-13.00	43.11	Horizontal	
16394.9465	-42.65	-13.00	29.65	Horizontal	

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
48.4794	-72.56	-13.00	59.56	Vertical	
113.4727	-64.81	-13.00	51.81	Vertical	
514.3452	-66.72	-13.00	53.72	Vertical	
2603.1206	-49.17	-13.00	36.17	Vertical	
7415.6472	-55.43	-13.00	42.43	Vertical	
17999.0000	-38.44	-13.00	25.44	Vertical	
44.1627	-64.74	-13.00	51.74	Horizontal	
230.9941	-67.44	-13.00	54.44	Horizontal	
584.3342	-63.34	-13.00	50.34	Horizontal	
2697.9396	-50.72	-13.00	37.72	Horizontal	
7354.6452	-56.24	-13.00	43.24	Horizontal	
16400.9467	-42.26	-13.00	29.26	Horizontal	



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Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- The disturbance below 30MHz was very low, and the above harmonics were the highest point could be 2 found when testing, so only the worst case data had been displayed.
- 3. All antenna has been tested, only the data of down antenna (worst) has been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

				Voltage			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	-5.39	-0.002908	2.5	PASS
Band II	9262	VN	TN	-14.27	-0.007703	2.5	PASS
Band II	9262	VH	TN	-14.63	-0.007896	2.5	PASS
Band II	9400	VL	TN	-9.46	-0.005033	2.5	PASS
Band II	9400	VN	TN	-9.31	-0.004950	2.5	PASS
Band II	9400	VH	TN	-9.86	-0.005243	2.5	PASS
Band II	9538	VL	TN	-9.71	-0.005092	2.5	PASS
Band II	9538	VN	TN	-17.41	-0.009126	2.5	PASS
Band II	9538	VH	TN	-17.72	-0.009291	2.5	PASS
Band IV	1312	VL	TN	-12.07	-0.007051	2.5	PASS
Band IV	1312	VN	TN	-13.07	-0.007631	2.5	PASS
Band IV	1312	VH	TN	-16.16	-0.009436	2.5	PASS
Band IV	1413	VL	TN	-8.32	-0.004801	2.5	PASS
Band IV	1413	VN	TN	-10.65	-0.006147	2.5	PASS
Band IV	1413	VH	TN	-8.78	-0.005069	2.5	PASS
Band IV	1513	VL	TN	-13.40	-0.007644	2.5	PASS
Band IV	1513	VN	TN	-6.64	-0.003787	2.5	PASS
Band IV	1513	VH	TN	-10.34	-0.005901	2.5	PASS
Band V	4132	VL	TN	-11.09	-0.013424	2.5	PASS
Band V	4132	VN	TN	-13.07	-0.015821	2.5	PASS
Band V	4132	VH	TN	-5.58	-0.006751	2.5	PASS
Band V	4182	VL	TN	-8.37	-0.010005	2.5	PASS
Band V	4182	VN	TN	-7.72	-0.009236	2.5	PASS
Band V	4182	VH	TN	-7.39	-0.008834	2.5	PASS
Band V	4233	VL	TN	-8.43	-0.009961	2.5	PASS
Band V	4233	VN	TN	-11.21	-0.013239	2.5	PASS
Band V	4233	VH	TN	-9.53	-0.011262	2.5	PASS



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8.2. Frequency Vs Temperature

				Temperature			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	-13.30	-0.007182	2.5	PASS
Band II	9262	VN	-20	-14.04	-0.007580	2.5	PASS
Band II	9262	VN	-10	-14.05	-0.007583	2.5	PASS
Band II	9262	VN	0	-11.57	-0.006244	2.5	PASS
Band II	9262	VN	10	-13.88	-0.007495	2.5	PASS
Band II	9262	VN	20	-11.63	-0.006278	2.5	PASS
Band II	9262	VN	30	-12.86	-0.006943	2.5	PASS
Band II	9262	VN	40	-12.27	-0.006622	2.5	PASS
Band II	9262	VN	50	-14.83	-0.008008	2.5	PASS
Band II	9400	VN	-30	-5.44	-0.002895	2.5	PASS
Band II	9400	VN	-20	-10.55	-0.005612	2.5	PASS
Band II	9400	VN	-10	-7.09	-0.003770	2.5	PASS
Band II	9400	VN	0	-10.53	-0.005600	2.5	PASS
Band II	9400	VN	10	-8.59	-0.004569	2.5	PASS
Band II	9400	VN	20	-6.92	-0.003683	2.5	PASS
Band II	9400	VN	30	-11.70	-0.006224	2.5	PASS
Band II	9400	VN	40	-13.83	-0.007354	2.5	PASS
Band II	9400	VN	50	-17.96	-0.009553	2.5	PASS
Band II	9538	VN	-30	-16.66	-0.008733	2.5	PASS
Band II	9538	VN	-20	-7.88	-0.004132	2.5	PASS
Band II	9538	VN	-10	-15.06	-0.007893	2.5	PASS
Band II	9538	VN	0	-13.95	-0.007312	2.5	PASS
Band II	9538	VN	10	-12.05	-0.006318	2.5	PASS
Band II	9538	VN	20	-12.67	-0.006644	2.5	PASS
Band II	9538	VN	30	-15.50	-0.008125	2.5	PASS
Band II	9538	VN	40	-14.39	-0.007544	2.5	PASS
Band II	9538	VN	50	-10.66	-0.005587	2.5	PASS
Band IV	1312	VN	-30	-13.27	-0.007748	2.5	PASS
Band IV	1312	VN	-20	-12.55	-0.007326	2.5	PASS
Band IV	1312	VN	-10	-7.84	-0.004578	2.5	PASS
Band IV	1312	VN	0	-12.42	-0.007251	2.5	PASS
Band IV	1312	VN	10	-12.50	-0.007297	2.5	PASS
Band IV	1312	VN	20	-8.28	-0.004833	2.5	PASS
Band IV	1312	VN	30	-11.62	-0.006787	2.5	PASS



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		·		1			
Band IV	1312	VN	40	-11.32	-0.006608	2.5	PASS
Band IV	1312	VN	50	-17.75	-0.010367	2.5	PASS
Band IV	1413	VN	-30	-5.52	-0.003187	2.5	PASS
Band IV	1413	VN	-20	-6.01	-0.003468	2.5	PASS
Band IV	1413	VN	-10	-6.02	-0.003472	2.5	PASS
Band IV	1413	VN	0	-6.27	-0.003616	2.5	PASS
Band IV	1413	VN	10	-9.21	-0.005313	2.5	PASS
Band IV	1413	VN	20	-8.25	-0.004764	2.5	PASS
Band IV	1413	VN	30	-7.20	-0.004157	2.5	PASS
Band IV	1413	VN	40	-6.49	-0.003744	2.5	PASS
Band IV	1413	VN	50	-9.52	-0.005495	2.5	PASS
Band IV	1513	VN	-30	-7.19	-0.004102	2.5	PASS
Band IV	1513	VN	-20	-5.96	-0.003400	2.5	PASS
Band IV	1513	VN	-10	-10.25	-0.005848	2.5	PASS
Band IV	1513	VN	0	-10.74	-0.006126	2.5	PASS
Band IV	1513	VN	10	-7.47	-0.004261	2.5	PASS
Band IV	1513	VN	20	-9.34	-0.005330	2.5	PASS
Band IV	1513	VN	30	-7.64	-0.004359	2.5	PASS
Band IV	1513	VN	40	-4.71	-0.002685	2.5	PASS
Band IV	1513	VN	50	-0.72	-0.000412	2.5	PASS
Band V	4132	VN	-30	-8.88	-0.010750	2.5	PASS
Band V	4132	VN	-20	-12.51	-0.015138	2.5	PASS
Band V	4132	VN	-10	-8.69	-0.010516	2.5	PASS
Band V	4132	VN	0	-9.23	-0.011174	2.5	PASS
Band V	4132	VN	10	-7.23	-0.008750	2.5	PASS
Band V	4132	VN	20	-12.58	-0.015224	2.5	PASS
Band V	4132	VN	30	-9.20	-0.011130	2.5	PASS
Band V	4132	VN	40	-11.34	-0.013727	2.5	PASS
Band V	4132	VN	50	-11.44	-0.013848	2.5	PASS
Band V	4182	VN	-30	-8.30	-0.009920	2.5	PASS
Band V	4182	VN	-20	-10.78	-0.012887	2.5	PASS
Band V	4182	VN	-10	-5.10	-0.006097	2.5	PASS
Band V	4182	VN	0	-10.14	-0.012126	2.5	PASS
Band V	4182	VN	10	-9.71	-0.011605	2.5	PASS
Band V	4182	VN	20	-10.05	-0.012015	2.5	PASS
Band V	4182	VN	30	-8.68	-0.010373	2.5	PASS
Band V	4182	VN	40	-12.12	-0.014495	2.5	PASS
Band V	4182	VN	50	-14.07	-0.016821	2.5	PASS



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Band V	4233	VN	-30	-7.91	-0.009344	2.5	PASS
Band V	4233	VN	-20	-8.40	-0.009927	2.5	PASS
Band V	4233	VN	-10	-5.39	-0.006362	2.5	PASS
Band V	4233	VN	0	-10.86	-0.012825	2.5	PASS
Band V	4233	VN	10	-11.19	-0.013222	2.5	PASS
Band V	4233	VN	20	-5.56	-0.006573	2.5	PASS
Band V	4233	VN	30	-11.15	-0.013171	2.5	PASS
Band V	4233	VN	40	-13.58	-0.016035	2.5	PASS
Band V	4233	VN	50	-6.02	-0.007114	2.5	PASS

The End



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邮编: 518057 t (86-755) 26012053 f (86-755) 26710594