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Appendix B

WCDMA BAND II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Channel	Conducted Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	24.65	25.65	33.00	PASS
Band II	9400	24.64	25.64	33.00	PASS
Band II	9538	24.74	25.74	33.00	PASS
Band IV	1312	24.70	25.70	30.00	PASS
Band IV	1413	24.69	25.69	30.00	PASS
Band IV	1513	24.60	25.60	30.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.93	22.78	38.45	PASS
Band V	4182	23.82	22.67	38.45	PASS
Band V	4233	24.02	22.87	38.45	PASS

Remark:

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

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

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



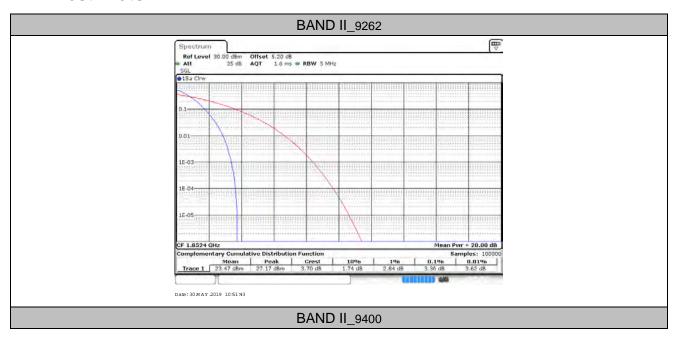
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.36	13	PASS
Band II	9400	3.39	13	PASS
Band II	9538	3.28	13	PASS
Band IV	1312	2.96	13	PASS
Band IV	1413	3.25	13	PASS
Band IV	1513	3.07	13	PASS
Band V	4132	3.22	13	PASS
Band V	4182	3.04	13	PASS
Band V	4233	2.96	13	PASS

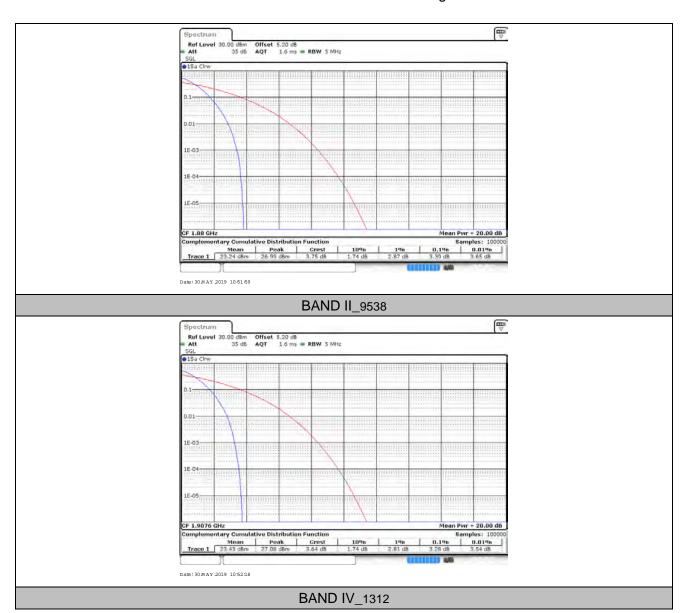
2.2. Test Plots





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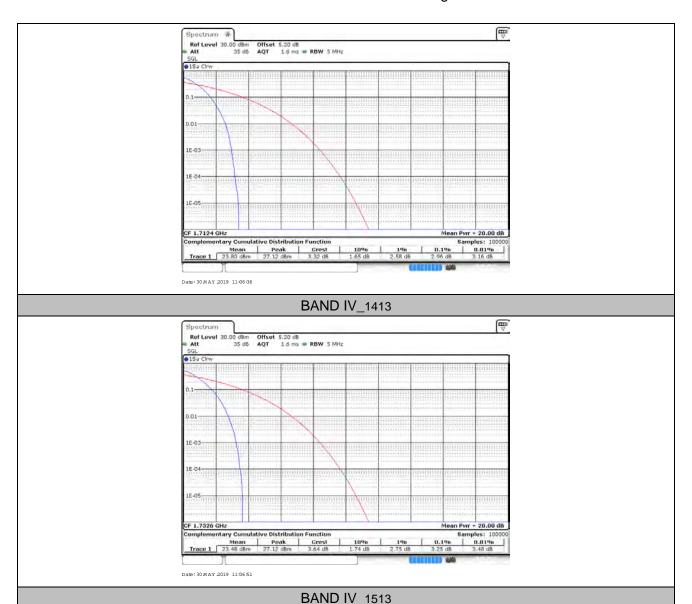
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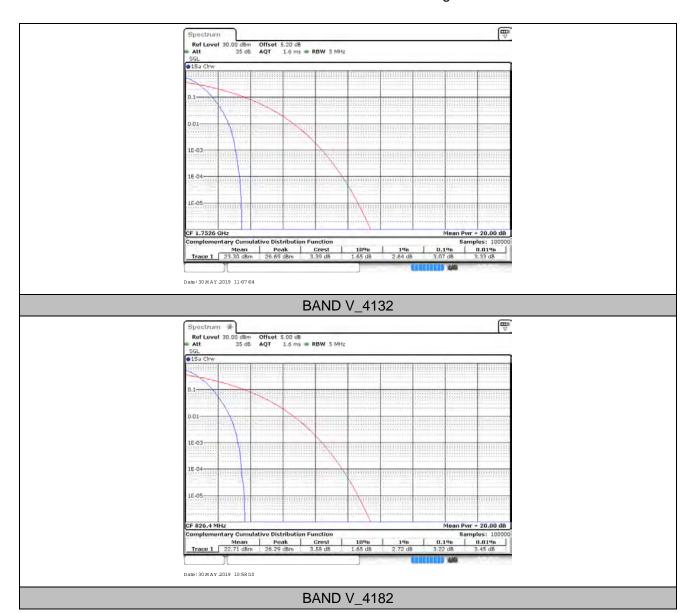
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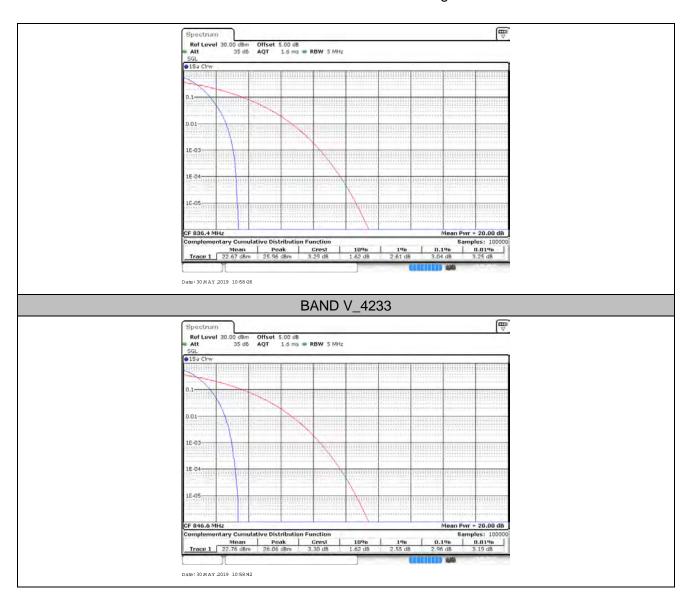
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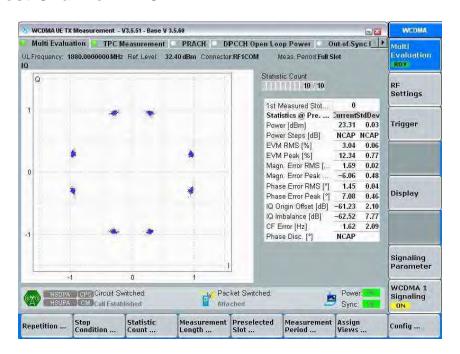




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3. Modulation Characteristics

- 3.1. Test BAND = LTE Band 2
- 3.2. Test BAND = WCDMA BAND II
- 3.2.1.Test Mode = UMTS/TM1
- Test Channel = MCH 3.2.1.1.



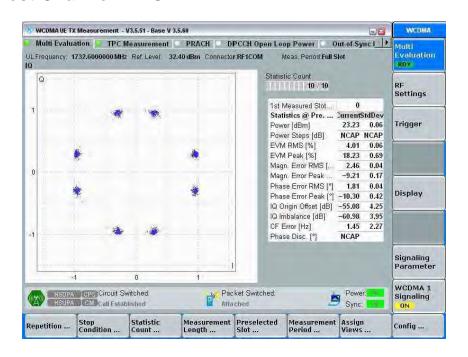


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3.3. Test BAND = WCDMA BAND IV

3.3.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.3.1.1.



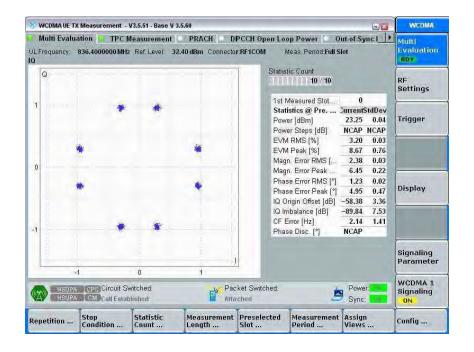


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3.4. Test BAND = WCDMA BAND V

3.4.1.Test Mode = UMTS/TM1

3.4.1.1. Test Channel = MCH





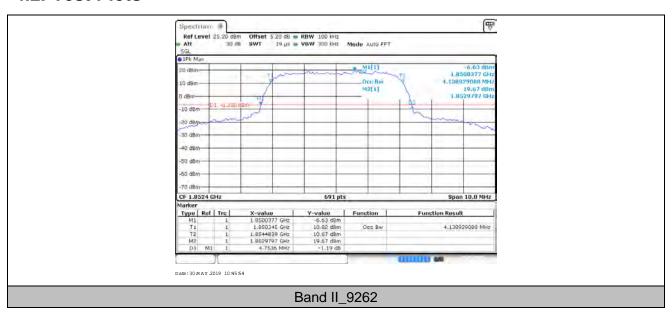
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4138.9	4754		PASS
Band II	9400	4153.4	4739		PASS
Band II	9538	4138.9	4739		PASS
Band IV	1312	4124.5	4754		PASS
Band IV	1413	4124.5	4739		PASS
Band IV	1513	4124.5	4754		PASS
Band V	4132	4138.9	4754		PASS
Band V	4182	4124.5	4725		PASS
Band V	4233	4110.0	4725		PASS

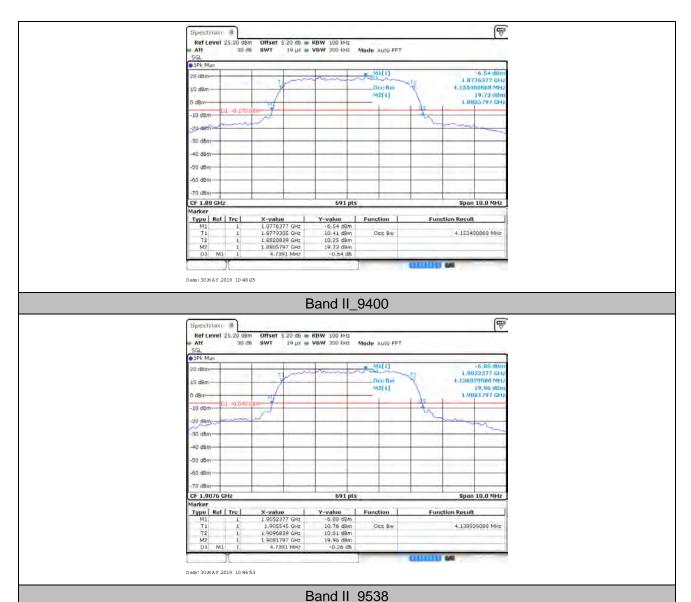
4.2. Test Plots





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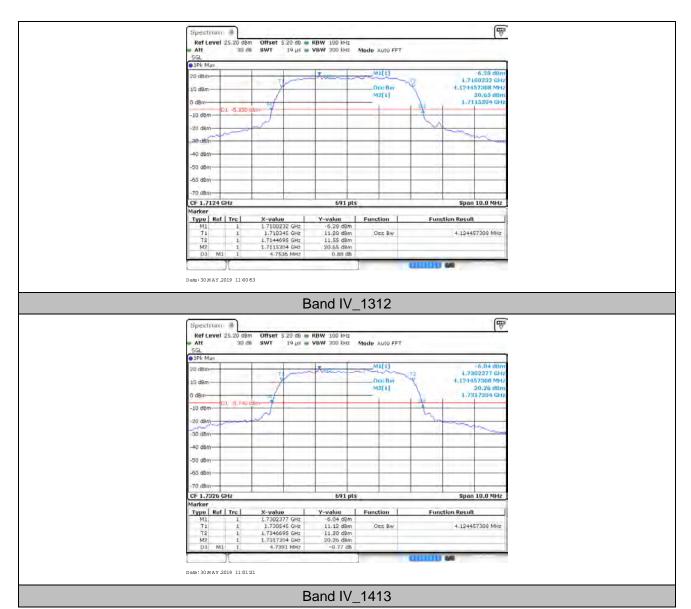
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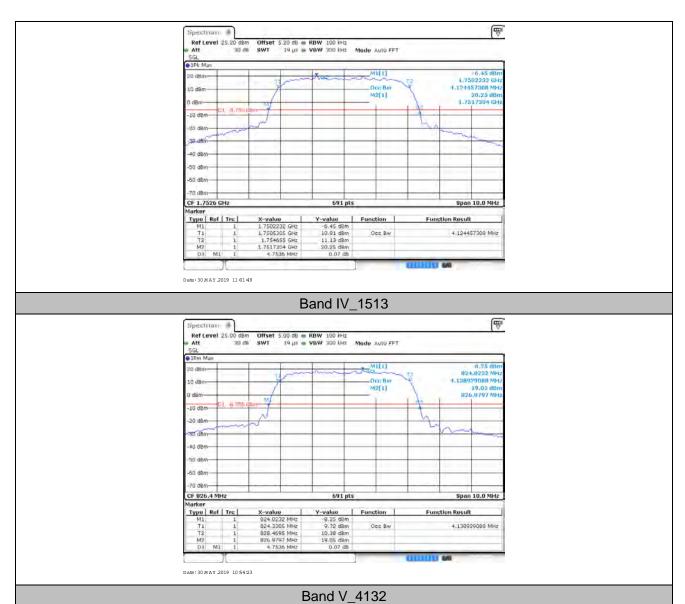
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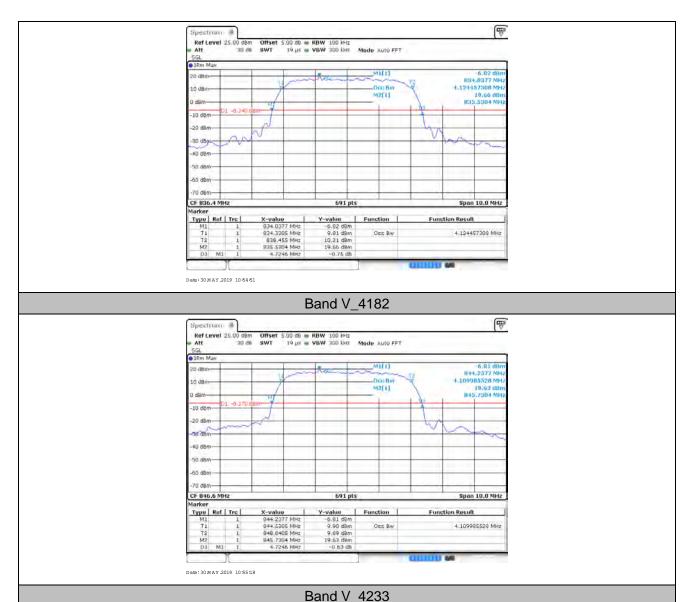
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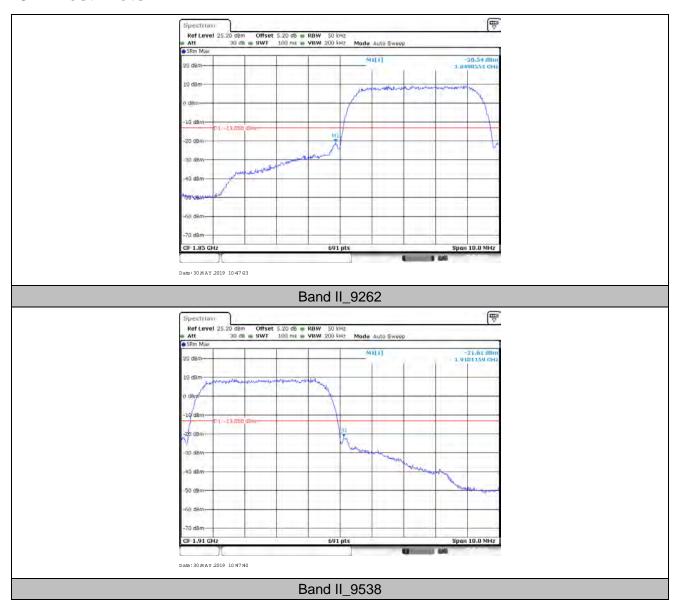
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5. Band Edge Compliance

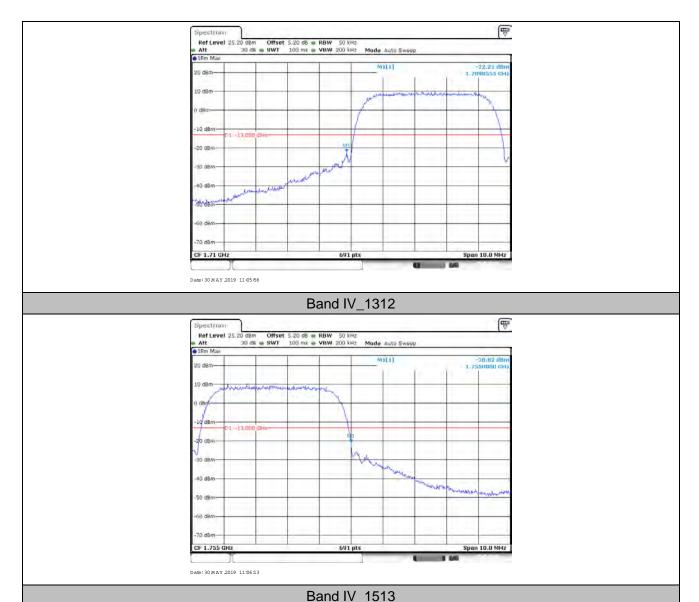
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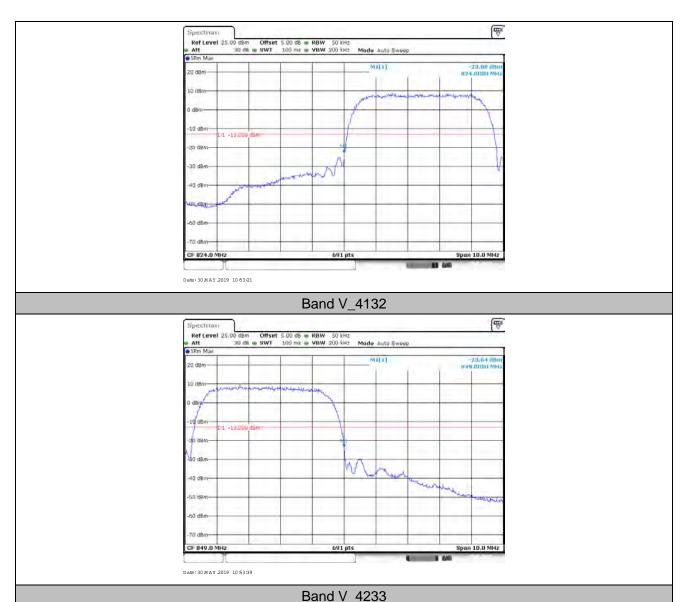
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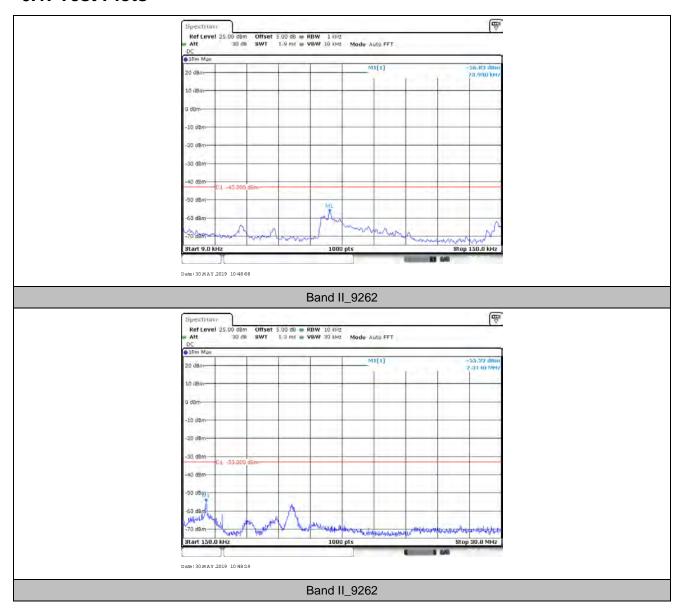


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6. Spurious Emission at Antenna Terminal

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.

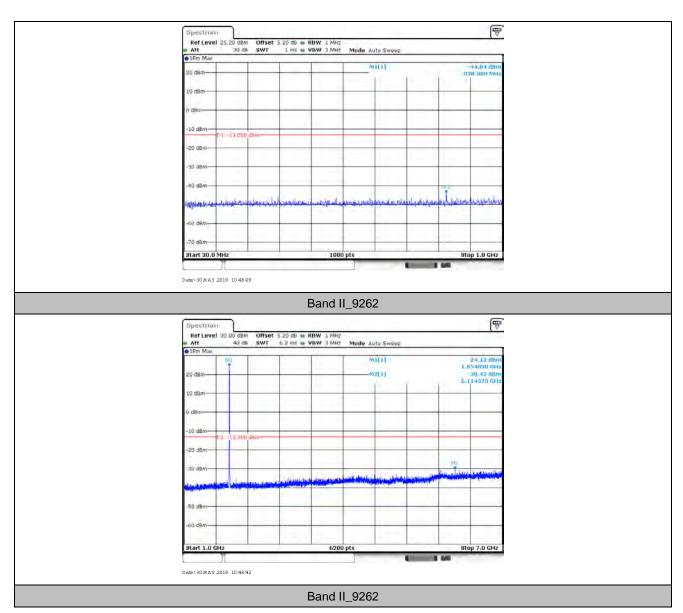
6.1. Test Plots





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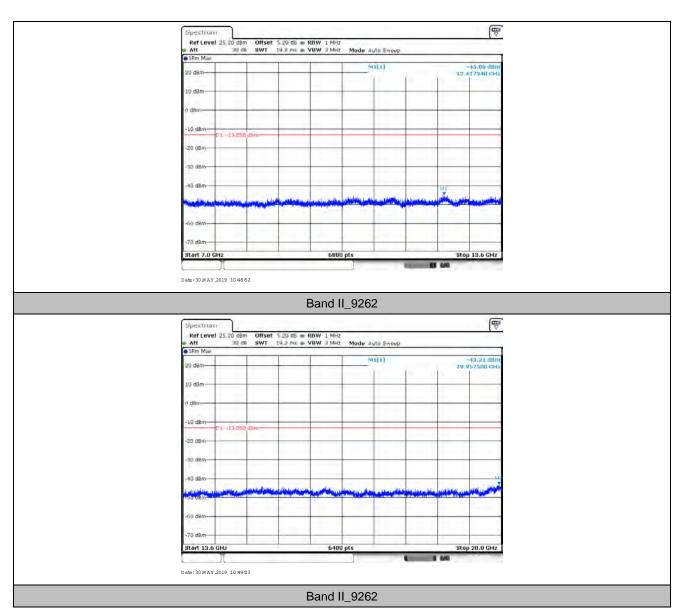
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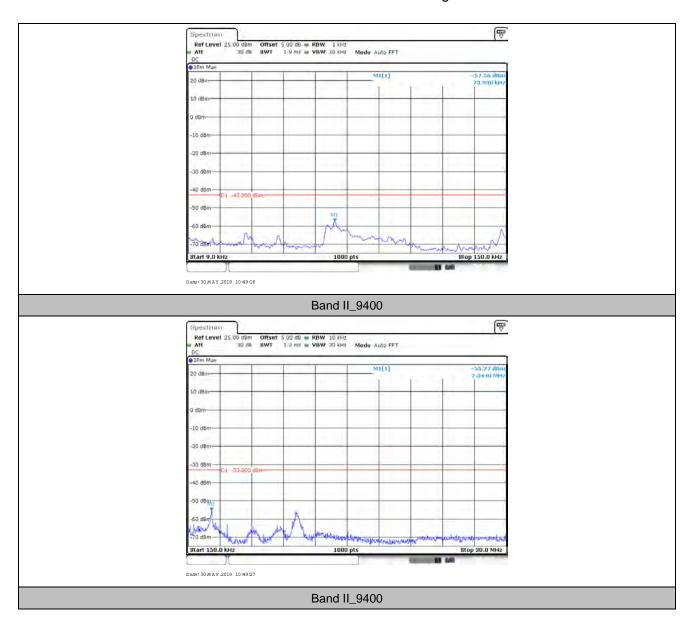
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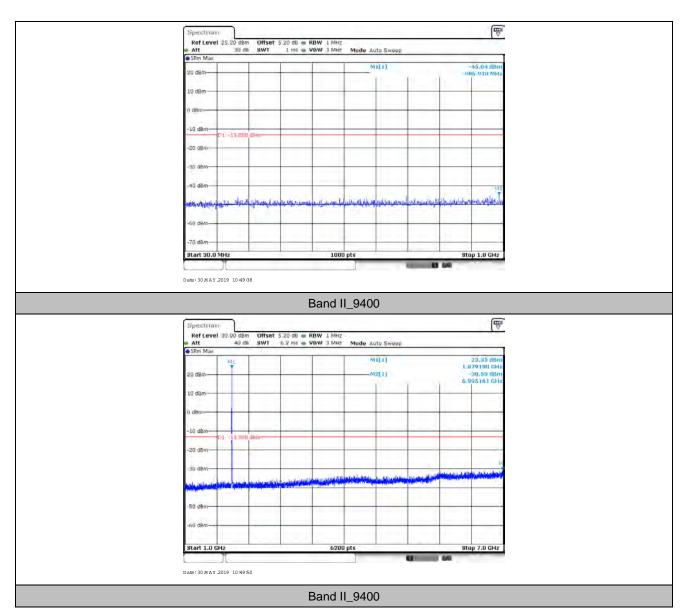
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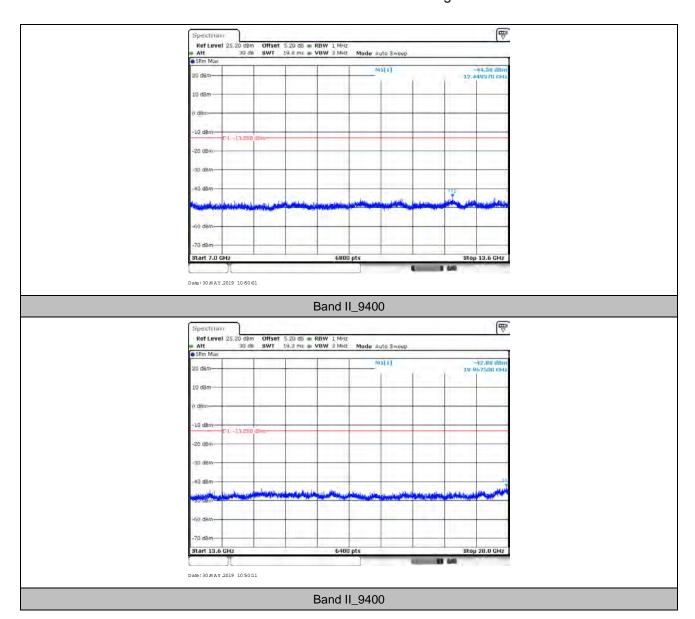
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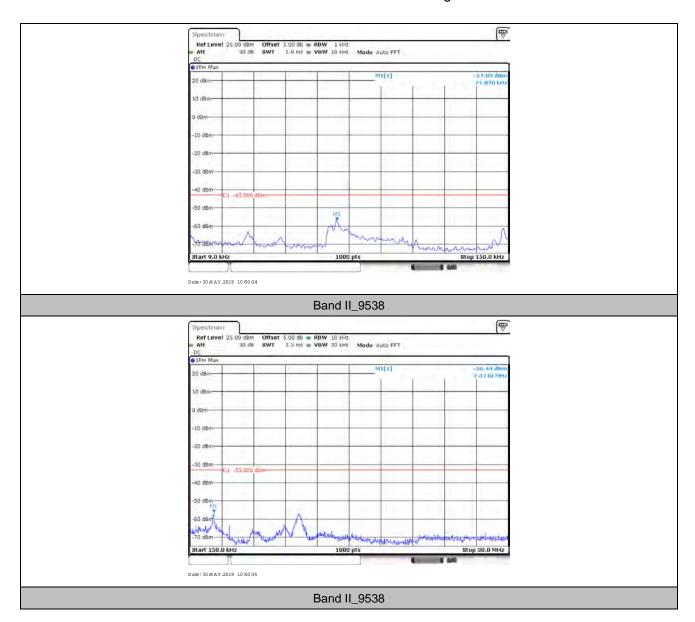
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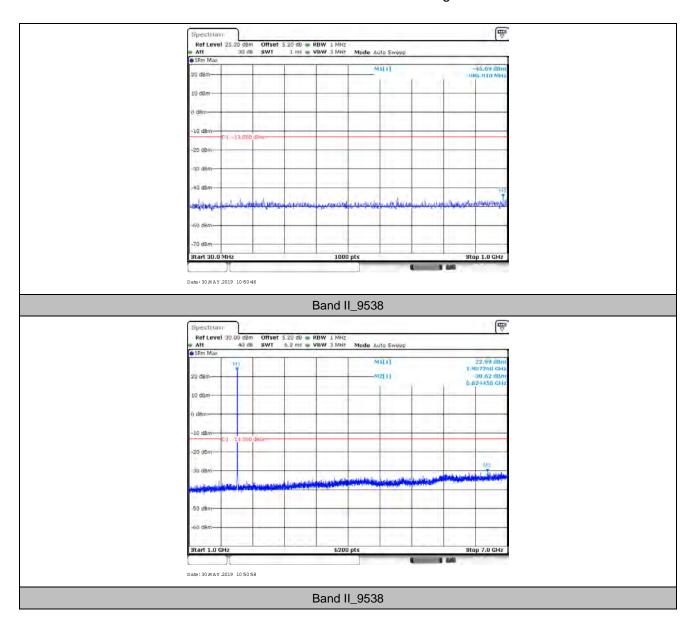
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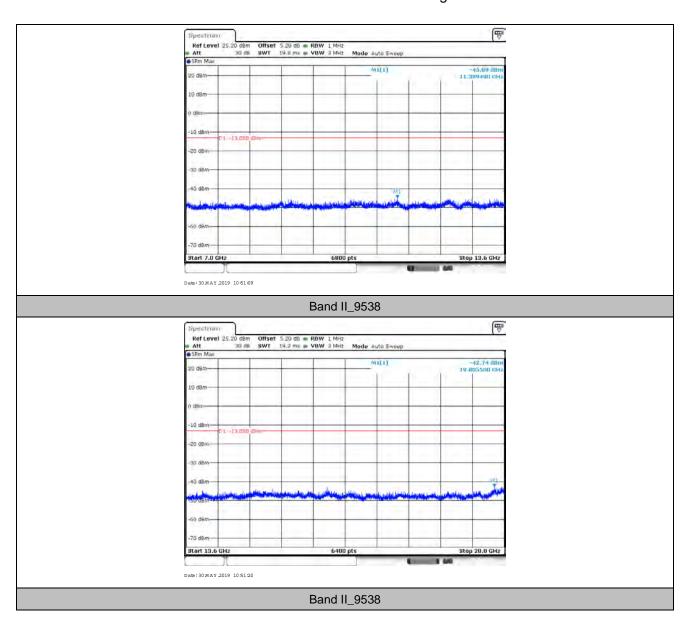
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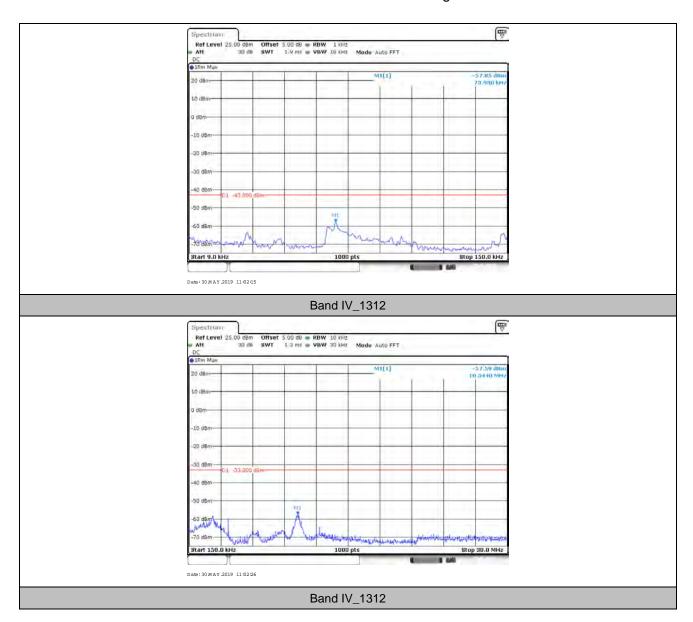
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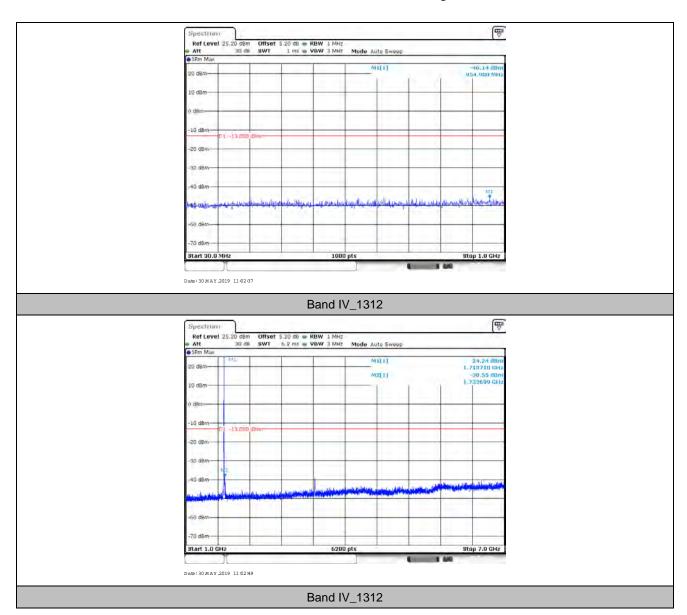
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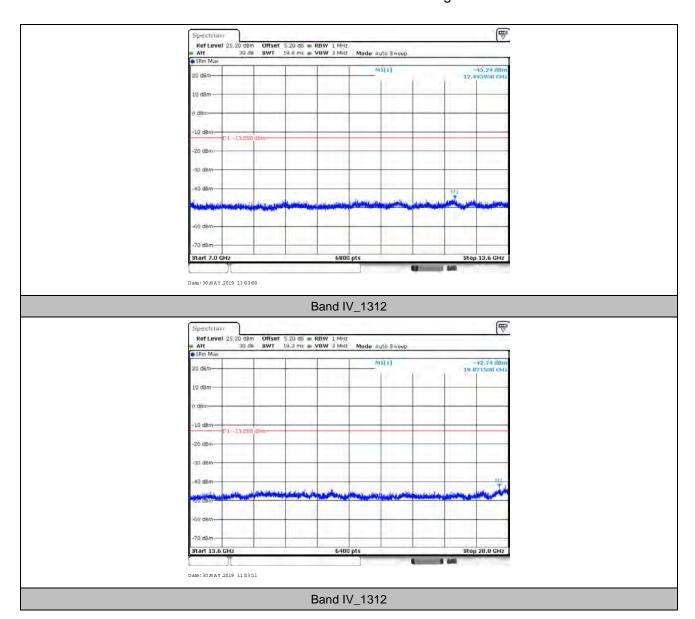
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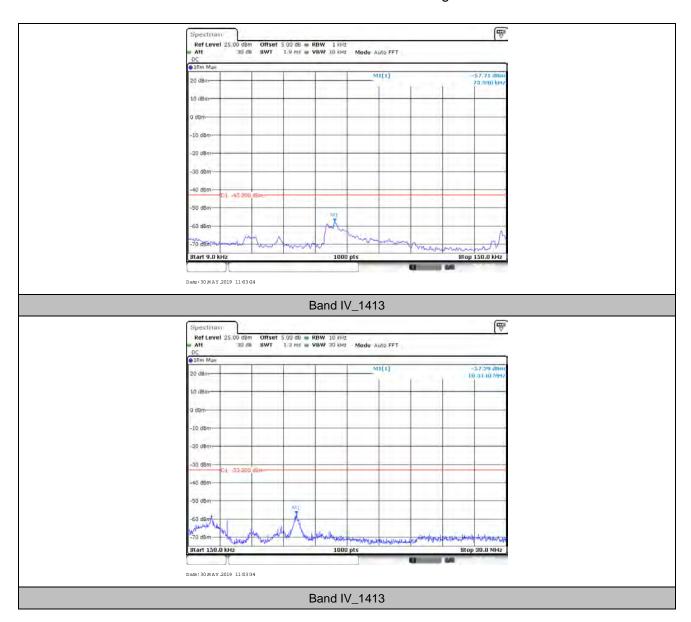
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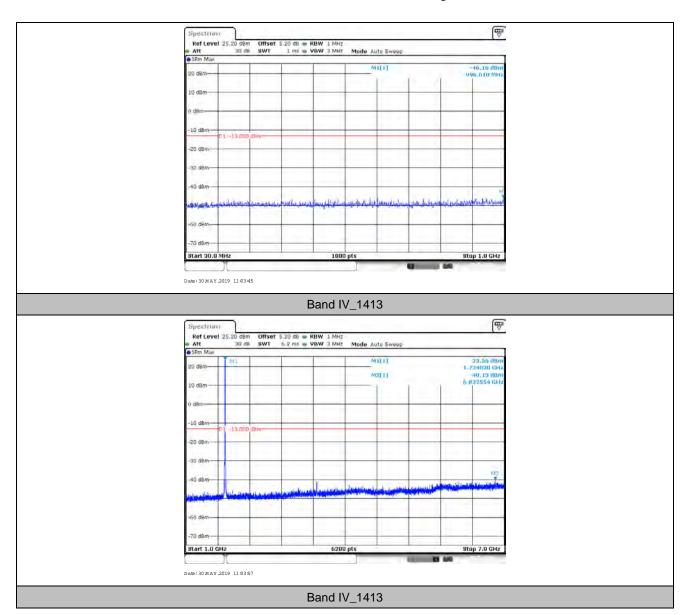
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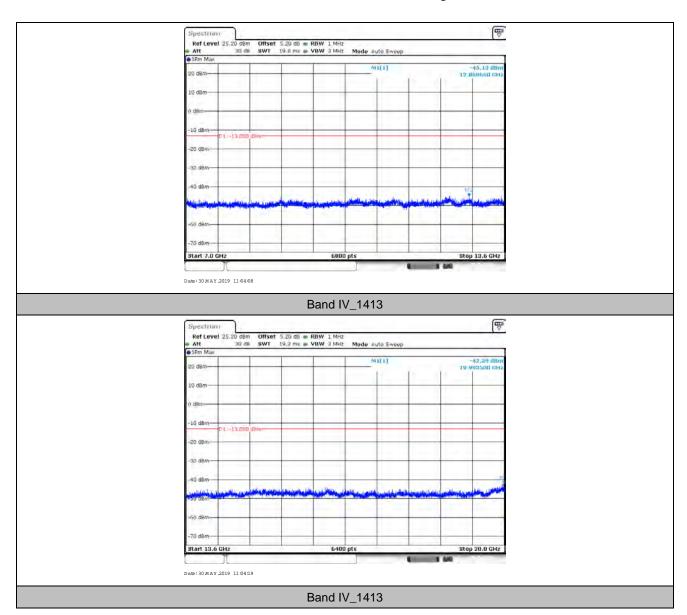
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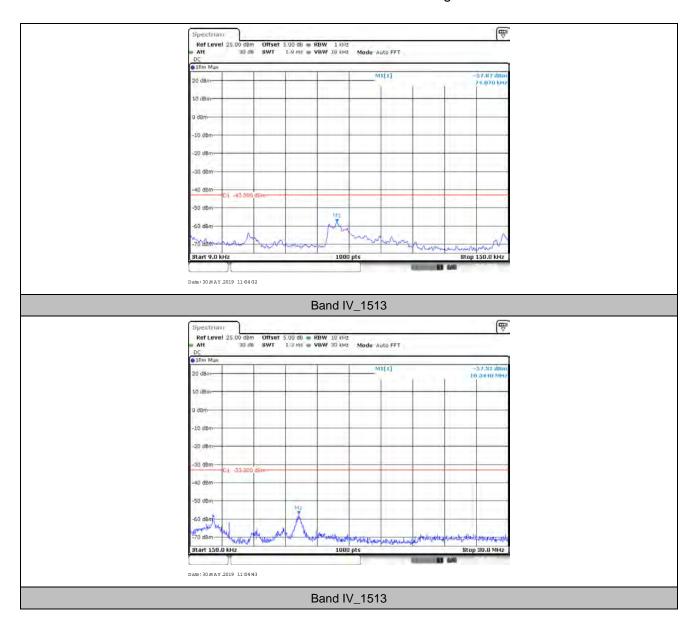
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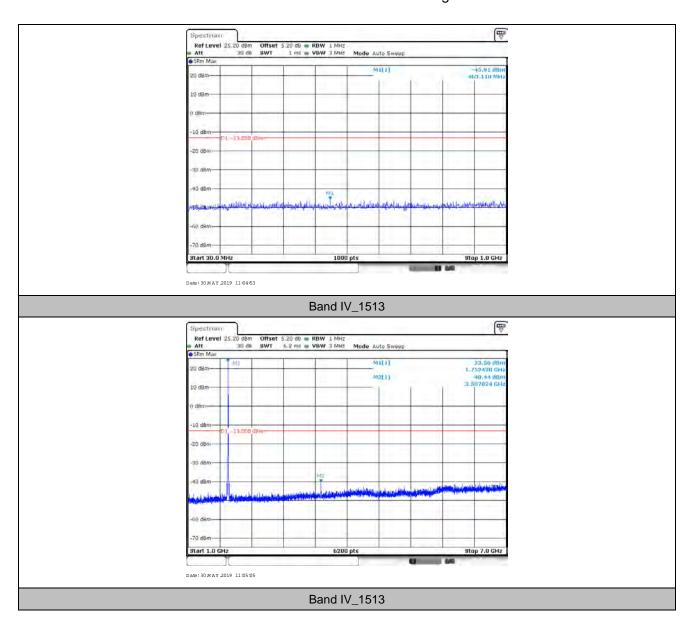






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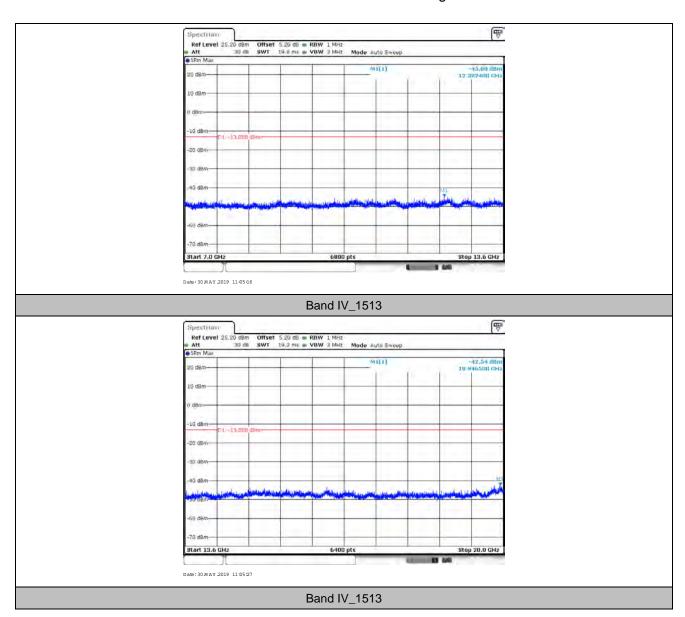
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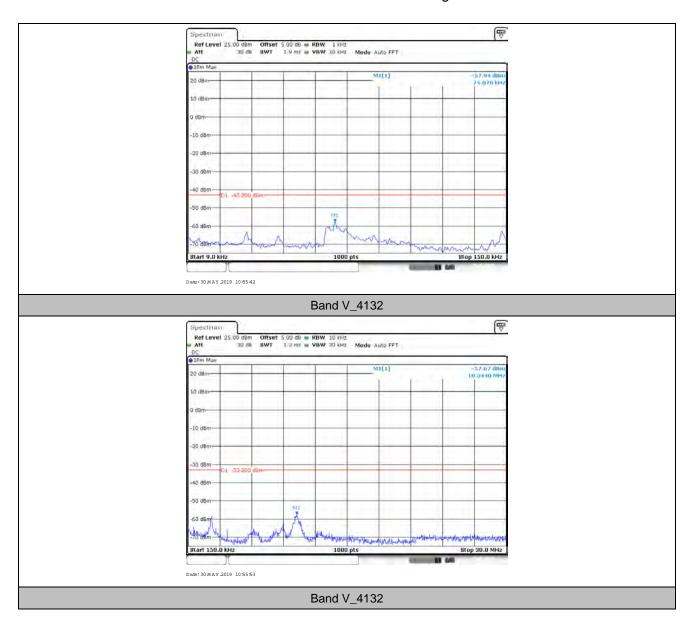
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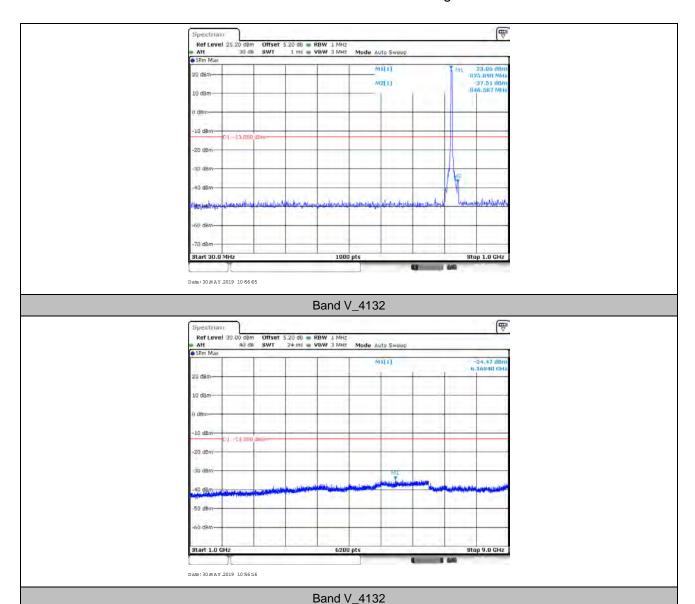
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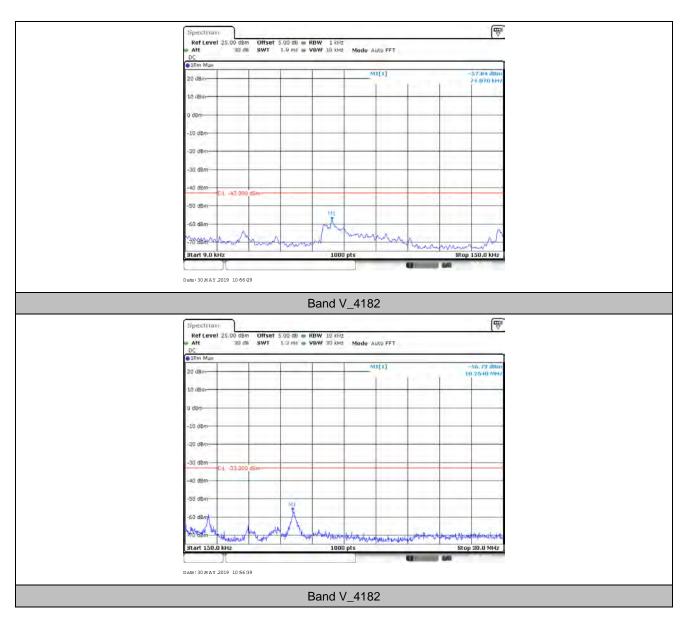


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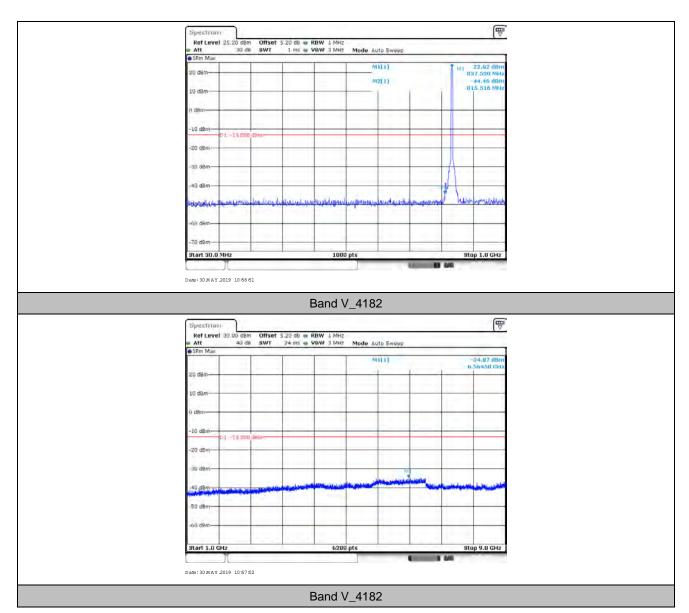
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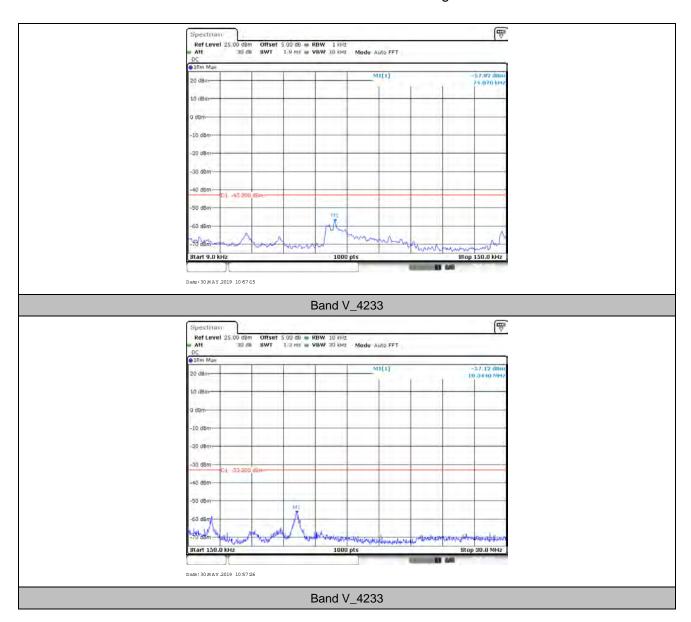
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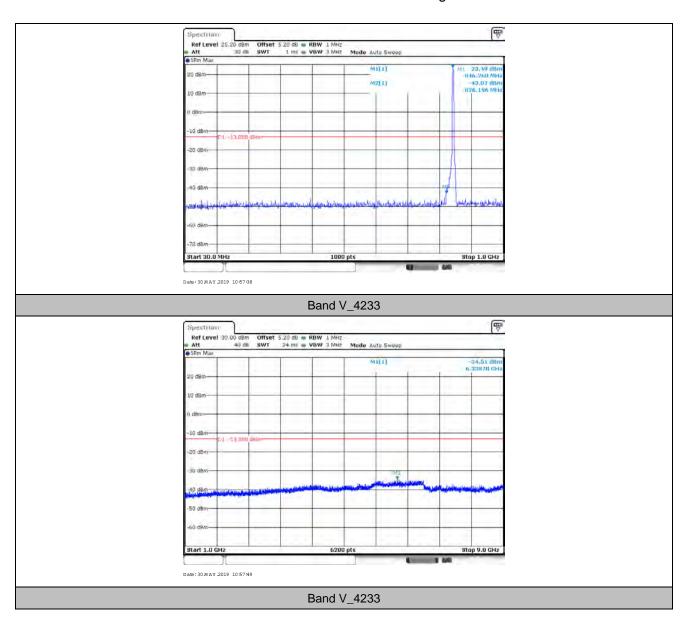


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7. Field Strength of Spurious Radiation

7.1. Test BAND = WCDMA BAND II

7.1.1.Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	MHz) Level (dBm) Limit Line (dBm)		Margin (dB)	Polarization	
65.400000	-80.67	-13.00	67.67	Vertical	
127.500000	-84.21	-13.00	71.21	Vertical	
938.125000	-76.05	-13.00	63.05	Vertical	
3706.387500	-59.24	-13.00	46.24	Vertical	
5559.375000	-59.63	-13.00	46.63	Vertical	
7862.325000	-62.78	-13.00	49.78	Vertical	
61.750000	-76.75	-13.00	63.75	Horizontal	
104.300000	-84.55	-13.00	71.55	Horizontal	
944.175000	-75.63	-13.00	62.63	Horizontal	
3705.900000	-59.20	-13.00	46.20	Horizontal	
5554.012500	-62.62	-13.00	49.62	Horizontal	
7953.975000	-62.58	-13.00	49.58	Horizontal	

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.450000	-81.00	-13.00	68.00	Vertical
104.250000	-83.14	-13.00	70.14	Vertical
948.575000	-75.57	-13.00	62.57	Vertical
3758.550000	-60.64	-13.00	47.64	Vertical
5636.887500	-61.54	-13.00	48.54	Vertical
7523.025000	-63.05	-13.00	50.05	Vertical
62.650000	-76.39	-13.00	63.39	Horizontal
104.300000	-84.32	-13.00	71.32	Horizontal
966.541667	-75.65	-13.00	62.65	Horizontal
3757.575000	-60.58	-13.00	47.58	Horizontal
5642.737500	-64.89	-13.00	51.89	Horizontal
7835.025000	-62.80	-13.00	49.80	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
64.900000	-80.17	-13.00	67.17	Vertical	
104.250000	-83.06	-13.00	70.06	Vertical	
949.308333	-76.30	-13.00	63.30	Vertical	
3816.562500	-57.68	-13.00	44.68	Vertical	
5726.100000	-59.25	-13.00	46.25	Vertical	
7627.350000	-62.84	-13.00	49.84	Vertical	
62.500000	-76.44	-13.00	63.44	Horizontal	
104.300000	-83.84	-13.00	70.84	Horizontal	
966.862500	-75.41	-13.00	62.41	Horizontal	
3813.637500	-62.45	-13.00	49.45	Horizontal	
5719.762500	-61.57	-13.00	48.57	Horizontal	
7859.400000	-62.40	-13.00	49.40	Horizontal	

7.2. Test BAND = WCDMA BAND IV

7.2.1.Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
65.850000	-80.99	-13.00	67.99	Vertical	
104.250000	-82.97	-13.00	69.97	Vertical	
944.266667	-75.62	-13.00	62.62	Vertical	
3422.662500	-52.83	-13.00	39.83	Vertical	
5134.275000	-63.54	-13.00	50.54	Vertical	
6846.375000	-59.30	-13.00	46.30	Vertical	
62.750000	-75.52	-13.00	62.52	Horizontal	
104.300000	-83.68	-13.00	70.68	Horizontal	
966.816667	-75.63	-13.00	62.63	Horizontal	
3422.662500	-52.67	-13.00	39.67	Horizontal	
5134.275000	-64.92	-13.00	51.92	Horizontal	
7920.337500	-62.68	-13.00	49.68	Horizontal	



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	cy (MHz) Level (dBm) Limit Line (dBm)		Margin (dB)	Polarization	
65.000000	-81.00	-13.00	68.00	Vertical	
104.250000	-82.91	-13.00	69.91	Vertical	
942.158333	-75.97	-13.00	62.97	Vertical	
3463.125000	-52.98	-13.00	39.98	Vertical	
5194.725000	-64.24	-13.00	51.24	Vertical	
6926.325000	-62.41	-13.00	49.41	Vertical	
62.550000	-76.54	-13.00	63.54	Horizontal	
104.300000	-83.85	-13.00	70.85	Horizontal	
967.366667	-75.63	-13.00	62.63	Horizontal	
3467.025000	-47.95	-13.00	34.95	Horizontal	
6027.862500	-64.33	-13.00	51.33	Horizontal	
7919.850000	-62.71	-13.00	49.71	Horizontal	

Test Channel = HCH 7.2.1.3.

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
64.550000	-80.26	-13.00	67.26	Vertical	
104.250000	-82.56	-13.00	69.56	Vertical	
956.595833	-75.64	-13.00	62.64	Vertical	
3506.512500	-58.40	-13.00	45.40	Vertical	
5157.187500	-65.47	-13.00	52.47	Vertical	
7005.787500	-61.13	-13.00	48.13	Vertical	
62.750000	-75.96	-13.00	62.96	Horizontal	
104.300000	-83.95	-13.00	70.95	Horizontal	
964.662500	-75.17	-13.00	62.17	Horizontal	
3507.000000	-57.48	-13.00	44.48	Horizontal	
6057.600000	-63.94	-13.00	50.94	Horizontal	
9208.800000	-62.28	-13.00	49.28	Horizontal	



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7.3. Test BAND = WCDMA BAND V

7.3.1.Test Mode = WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
63.550000	-80.88	-13.00	67.88	Vertical	
104.250000	-82.08	-13.00	69.08	Vertical	
1654.500000	-62.39	-13.00	49.39	Vertical	
2474.500000	-58.96	-13.00	45.96	Vertical	
4397.662500	-66.28	-13.00	53.28	Vertical	
7972.500000	-62.80	-13.00	49.80	Vertical	
63.950000	-76.12	-13.00	63.12	Horizontal	
104.300000	-83.90	-13.00	70.90	Horizontal	
1654.500000	-63.04	-13.00	50.04	Horizontal	
2474.500000	-59.12	-13.00	46.12	Horizontal	
4198.762500	-66.22	-13.00	53.22	Horizontal	
7855.987500	-62.66	-13.00	49.66	Horizontal	

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
64.400000	-79.98	-13.00	66.98	Vertical	
104.250000	-82.67	-13.00	69.67	Vertical	
1671.000000	-61.46	-13.00	48.46	Vertical	
2505.000000	-59.11	-13.00	46.11	Vertical	
3210.112500	-67.67	-13.00	54.67	Vertical	
6024.937500	-64.27	-13.00	51.27	Vertical	
62.700000	-76.44	-13.00	63.44	Horizontal	
104.300000	-83.78	-13.00	70.78	Horizontal	
1674.500000	-61.45	-13.00	48.45	Horizontal	
2510.500000	-59.30	-13.00	46.30	Horizontal	
4310.400000	-65.78	-13.00	52.78	Horizontal	
7916.925000	-62.78	-13.00	49.78	Horizontal	



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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization	
63.450000	-80.23	-13.00	67.23	Vertical	
104.250000	-82.87	-13.00	69.87	Vertical	
1695.000000	-62.29	-13.00	49.29	Vertical	
2542.500000	-59.03	-13.00	46.03	Vertical	
4298.700000	-65.84	-13.00	52.84	Vertical	
7838.437500	-62.68	-13.00	49.68	Vertical	
62.500000	-76.28	-13.00	63.28	Horizontal	
104.300000	-83.89	-13.00	70.89	Horizontal	
1691.500000	-63.03	-13.00	50.03	Horizontal	
2541.500000	-59.38	-13.00	46.38	Horizontal	
4315.275000	-65.76	-13.00	52.76	Horizontal	
7936.425000	-62.71	-13.00	49.71	Horizontal	

Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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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	1.59	0.000857	±2.5	PASS
Band II	9262	VN	TN	2.27	0.001224	±2.5	PASS
Band II	9262	VH	TN	1.69	0.000911	±2.5	PASS
Band II	9400	VL	TN	-2.35	-0.001248	±2.5	PASS
Band II	9400	VN	TN	-1.73	-0.000921	±2.5	PASS
Band II	9400	VH	TN	-2.02	-0.001073	±2.5	PASS
Band II	9538	VL	TN	-5.86	-0.003071	±2.5	PASS
Band II	9538	VN	TN	-5.79	-0.003037	±2.5	PASS
Band II	9538	VH	TN	-6.76	-0.003543	±2.5	PASS
Band IV	1312	VL	TN	13.73	0.008016	±2.5	PASS
Band IV	1312	VN	TN	14.03	0.008195	±2.5	PASS
Band IV	1312	VH	TN	15.27	0.008918	±2.5	PASS
Band IV	1413	VL	TN	-2.50	-0.001441	±2.5	PASS
Band IV	1413	VN	TN	-1.86	-0.001073	±2.5	PASS
Band IV	1413	VH	TN	-2.70	-0.001556	±2.5	PASS
Band IV	1513	VL	TN	-13.75	-0.007844	±2.5	PASS
Band IV	1513	VN	TN	-13.17	-0.007513	±2.5	PASS
Band IV	1513	VH	TN	-12.75	-0.007273	±2.5	PASS
Band V	4132	VL	TN	-0.18	-0.000216	±2.5	PASS
Band V	4132	VN	TN	0.71	0.000857	±2.5	PASS
Band V	4132	VH	TN	0.09	0.000113	±2.5	PASS
Band V	4182	VL	TN	-0.72	-0.000864	±2.5	PASS
Band V	4182	VN	TN	0.26	0.000308	±2.5	PASS
Band V	4182	VH	TN	-0.04	-0.000051	±2.5	PASS
Band V	4233	VL	TN	-1.09	-0.001284	±2.5	PASS
Band V	4233	VN	TN	-1.97	-0.002332	±2.5	PASS
Band V	4233	VH	TN	-2.12	-0.002501	±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	1.66	0.000896	±2.5	PASS
Band II	9262	VN	-20	2.01	0.001085	±2.5	PASS
Band II	9262	VN	-10	1.77	0.000958	±2.5	PASS
Band II	9262	VN	0	1.24	0.000668	±2.5	PASS
Band II	9262	VN	10	1.39	0.000753	±2.5	PASS
Band II	9262	VN	20	1.34	0.000726	±2.5	PASS
Band II	9262	VN	30	1.95	0.001050	±2.5	PASS
Band II	9262	VN	40	2.00	0.001077	±2.5	PASS
Band II	9262	VN	50	0.98	0.000529	±2.5	PASS
Band II	9400	VN	-30	-1.46	-0.000776	±2.5	PASS
Band II	9400	VN	-20	-1.64	-0.000871	±2.5	PASS
Band II	9400	VN	-10	-2.27	-0.001206	±2.5	PASS
Band II	9400	VN	0	-2.17	-0.001157	±2.5	PASS
Band II	9400	VN	10	-2.73	-0.001450	±2.5	PASS
Band II	9400	VN	20	-2.60	-0.001381	±2.5	PASS
Band II	9400	VN	30	-2.41	-0.001282	±2.5	PASS
Band II	9400	VN	40	-1.97	-0.001046	±2.5	PASS
Band II	9400	VN	50	-2.37	-0.001259	±2.5	PASS
Band II	9538	VN	-30	-5.88	-0.003082	±2.5	PASS
Band II	9538	VN	-20	-6.01	-0.003150	±2.5	PASS
Band II	9538	VN	-10	-5.69	-0.002985	±2.5	PASS
Band II	9538	VN	0	-6.27	-0.003285	±2.5	PASS
Band II	9538	VN	10	-5.04	-0.002640	±2.5	PASS
Band II	9538	VN	20	-4.14	-0.002171	±2.5	PASS
Band II	9538	VN	30	-6.29	-0.003296	±2.5	PASS
Band II	9538	VN	40	-5.91	-0.003097	±2.5	PASS
Band II	9538	VN	50	-6.22	-0.003258	±2.5	PASS
Band IV	1312	VN	-30	12.86	0.007510	±2.5	PASS
Band IV	1312	VN	-20	14.08	0.008220	±2.5	PASS
Band IV	1312	VN	-10	14.10	0.008233	±2.5	PASS
Band IV	1312	VN	0	14.26	0.008329	±2.5	PASS
Band IV	1312	VN	10	13.98	0.008162	±2.5	PASS
Band IV	1312	VN	20	14.46	0.008442	±2.5	PASS



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				T	T	1	1
Band IV	1312	VN	30	14.24	0.008316	±2.5	PASS
Band IV	1312	VN	40	15.69	0.009164	±2.5	PASS
Band IV	1312	VN	50	15.19	0.008872	±2.5	PASS
Band IV	1413	VN	-30	-1.21	-0.000698	±2.5	PASS
Band IV	1413	VN	-20	-0.70	-0.000405	±2.5	PASS
Band IV	1413	VN	-10	-2.94	-0.001697	±2.5	PASS
Band IV	1413	VN	0	-6.72	-0.003881	±2.5	PASS
Band IV	1413	VN	10	-2.11	-0.001218	±2.5	PASS
Band IV	1413	VN	20	-1.02	-0.000590	±2.5	PASS
Band IV	1413	VN	30	-1.14	-0.000656	±2.5	PASS
Band IV	1413	VN	40	-2.00	-0.001152	±2.5	PASS
Band IV	1413	VN	50	-5.59	-0.003224	±2.5	PASS
Band IV	1513	VN	-30	-14.85	-0.008472	±2.5	PASS
Band IV	1513	VN	-20	-13.89	-0.007926	±2.5	PASS
Band IV	1513	VN	-10	-13.83	-0.007893	±2.5	PASS
Band IV	1513	VN	0	-13.86	-0.007909	±2.5	PASS
Band IV	1513	VN	10	-14.32	-0.008170	±2.5	PASS
Band IV	1513	VN	20	-13.24	-0.007554	±2.5	PASS
Band IV	1513	VN	30	-13.93	-0.007950	±2.5	PASS
Band IV	1513	VN	40	-14.08	-0.008036	±2.5	PASS
Band IV	1513	VN	50	-13.10	-0.007473	±2.5	PASS
Band V	4132	VN	-30	0.12	0.000147	±2.5	PASS
Band V	4132	VN	-20	1.12	0.001350	±2.5	PASS
Band V	4132	VN	-10	0.21	0.000251	±2.5	PASS
Band V	4132	VN	0	0.56	0.000675	±2.5	PASS
Band V	4132	VN	10	0.36	0.000433	±2.5	PASS
Band V	4132	VN	20	0.76	0.000917	±2.5	PASS
Band V	4132	VN	30	0.48	0.000580	±2.5	PASS
Band V	4132	VN	40	0.13	0.000156	±2.5	PASS
Band V	4132	VN	50	0.59	0.000710	±2.5	PASS
Band V	4182	VN	-30	-0.41	-0.000487	±2.5	PASS
Band V	4182	VN	-20	0.30	0.000359	±2.5	PASS
Band V	4182	VN	-10	0.02	0.000026	±2.5	PASS
Band V	4182	VN	0	-0.36	-0.000428	±2.5	PASS
Band V	4182	VN	10	0.11	0.000128	±2.5	PASS
Band V	4182	VN	20	-0.17	-0.000205	±2.5	PASS
Band V	4182	VN	30	-0.18	-0.000214	±2.5	PASS
Band V	4182	VN	40	0.03	0.000034	±2.5	PASS



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Band V	4182	VN	50	-0.04	-0.000051	±2.5	PASS
Band V	4233	VN	-30	-1.57	-0.001850	±2.5	PASS
Band V	4233	VN	-20	-1.60	-0.001884	±2.5	PASS
Band V	4233	VN	-10	-1.33	-0.001571	±2.5	PASS
Band V	4233	VN	0	-2.11	-0.002492	±2.5	PASS
Band V	4233	VN	10	-2.27	-0.002678	±2.5	PASS
Band V	4233	VN	20	-1.57	-0.001859	±2.5	PASS
Band V	4233	VN	30	-1.60	-0.001884	±2.5	PASS
Band V	4233	VN	40	-2.30	-0.002712	±2.5	PASS
Band V	4233	VN	50	-1.97	-0.002332	±2.5	PASS

The End

