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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	23.18	22.98	33.00	PASS
Band II	9400	23.19	22.99	33.00	PASS
Band II	9538	23.29	23.09	33.00	PASS
Band IV	4132	22.37	22.34	30.00	PASS
Band IV	4182	22.34	22.31	30.00	PASS
Band IV	4233	22.26	22.23	30.00	PASS

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.18	19.63	38.45	PASS
Band V	4182	23.12	19.57	38.45	PASS
Band V	4233	23.33	19.78	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]



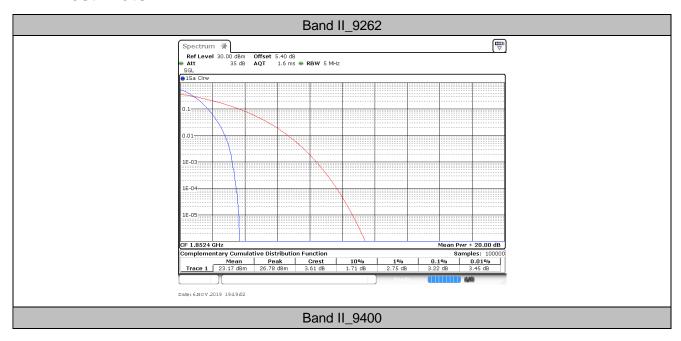
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.22	13	PASS
Band II	9400	3.19	13	PASS
Band II	9538	3.13	13	PASS
Band IV	1312	3.68	13	PASS
Band IV	1413	3.30	13	PASS
Band IV	1513	3.45	13	PASS
Band V	4132	3.28	13	PASS
Band V	4182	3.48	13	PASS
Band V	4233	3.51	13	PASS

2.2. Test Plots

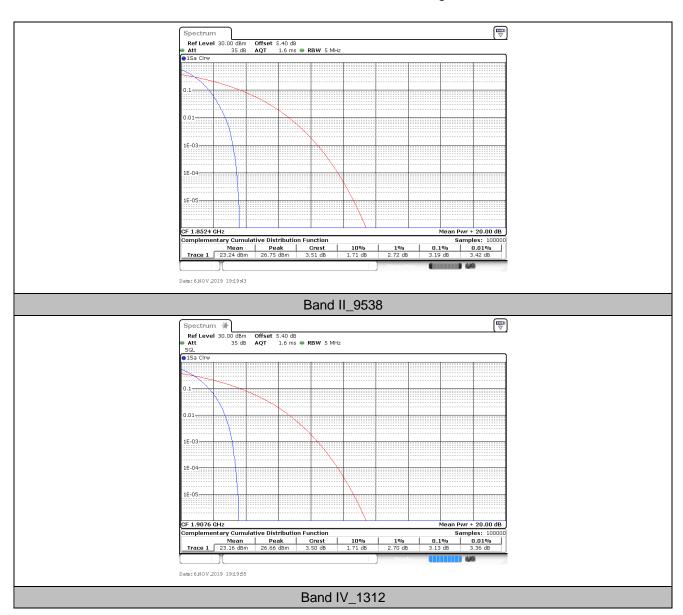




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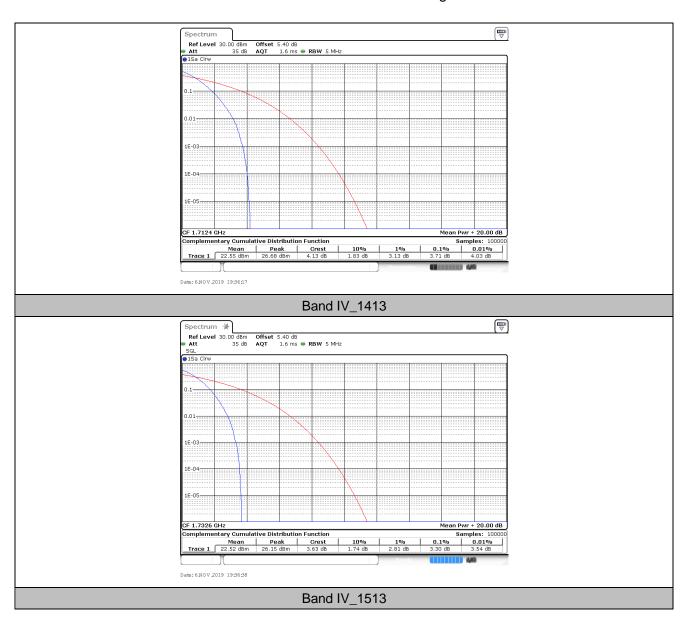
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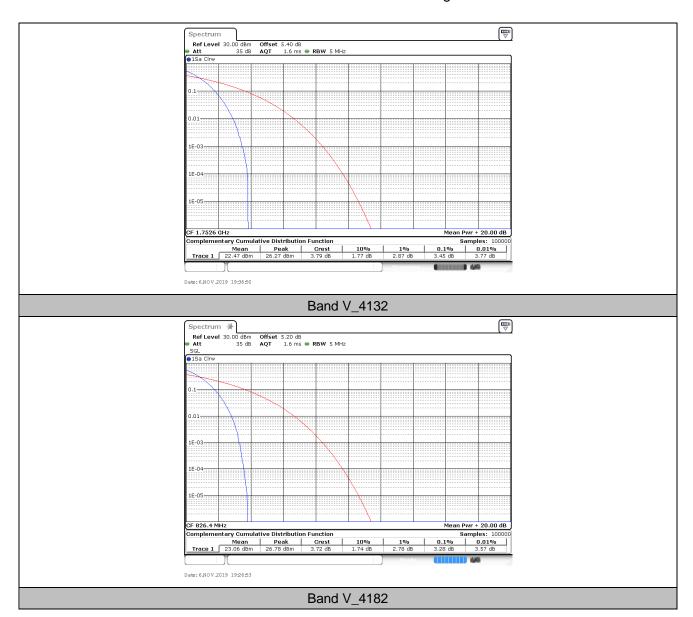
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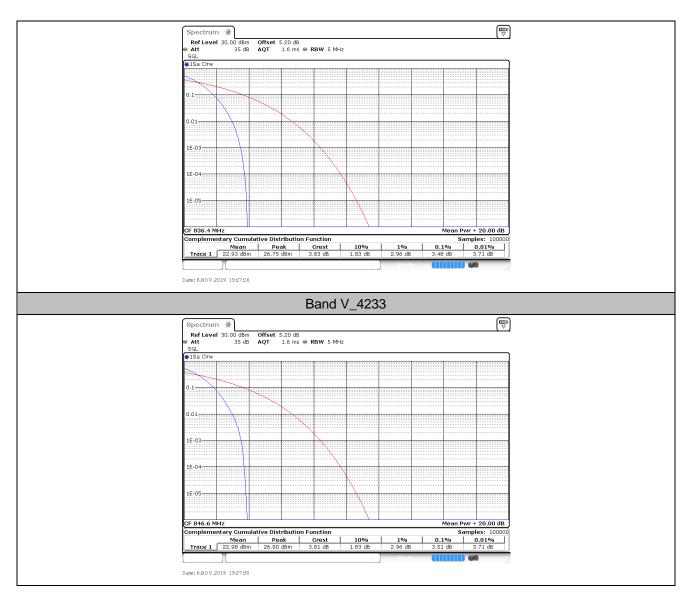
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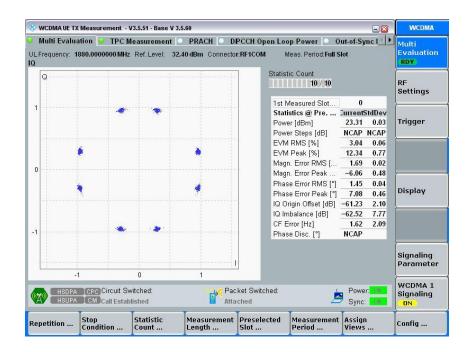
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.1.1.1.



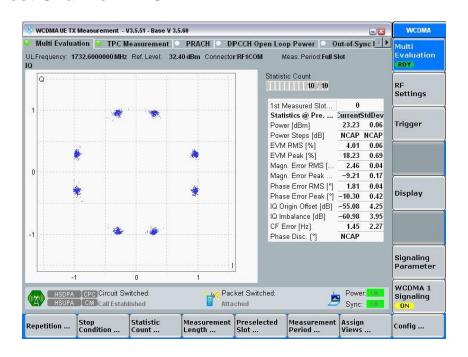


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3.2. Test Band = WCDMA Band IV

3.2.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.2.1.1.



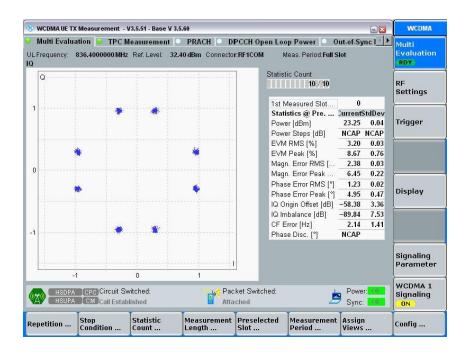


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3.3. Test Band = WCDMA Band V

3.3.1.Test Mode = UMTS/TM1

Test Channel = MCH 3.3.1.1.





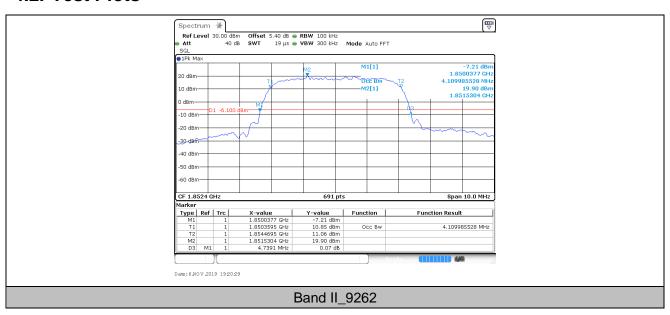
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4110.0	4739		PASS
Band II	9400	4124.5	4725		PASS
Band II	9538	4110.0	4725		PASS
Band IV	1312	4124.5	4710		PASS
Band IV	1413	4124.5	4725		PASS
Band IV	1513	4124.5	4725		PASS
Band V	4132	4110.0	4710		PASS
Band V	4182	4124.5	4710		PASS
Band V	4233	4124.5	4725		PASS

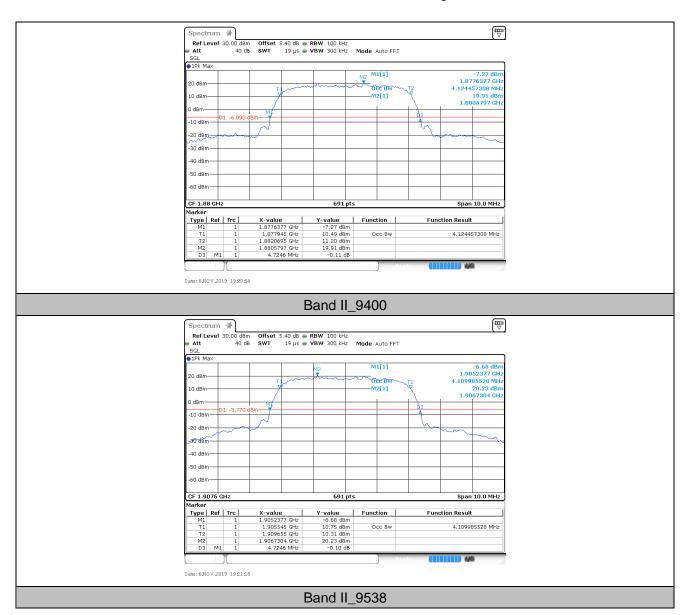
4.2. Test Plots





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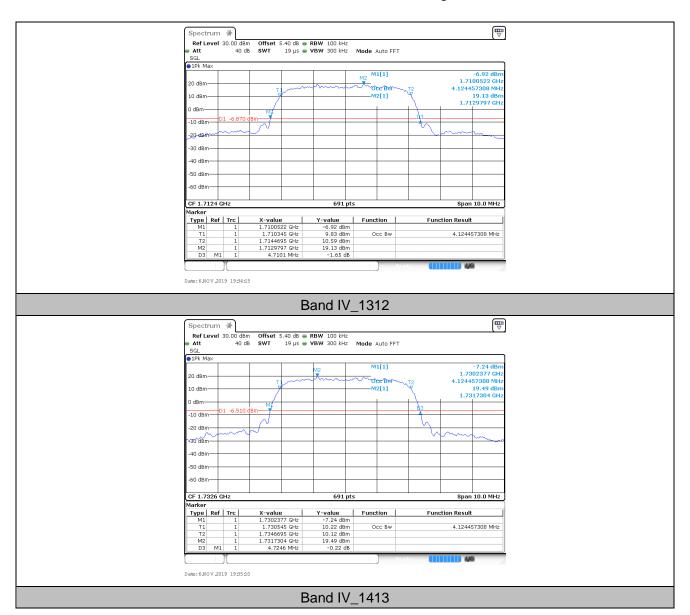
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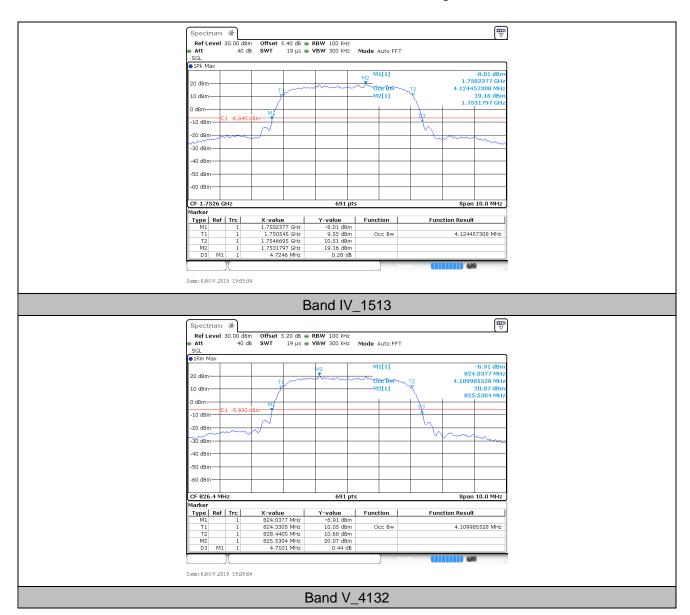


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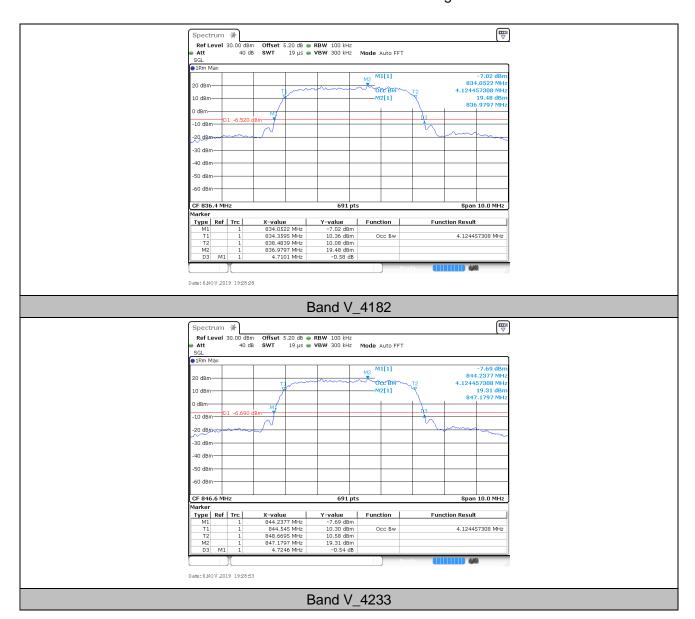


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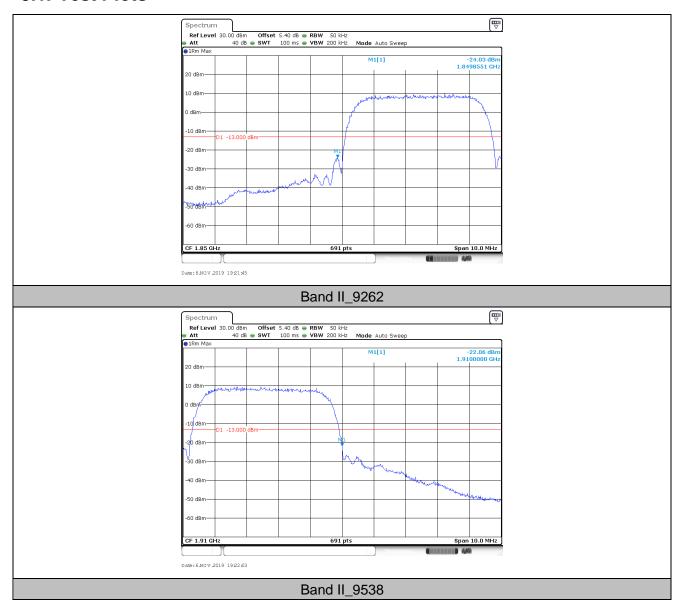
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5. Band Edge Compliance

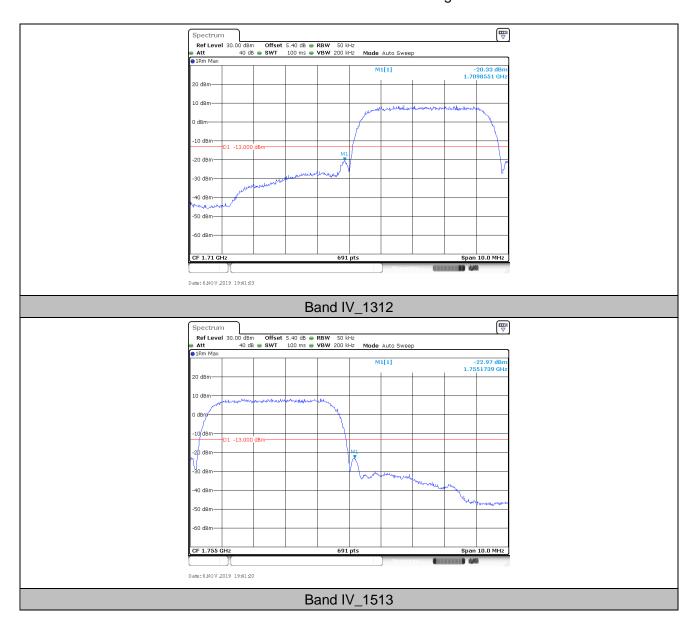
5.1. Test Plots





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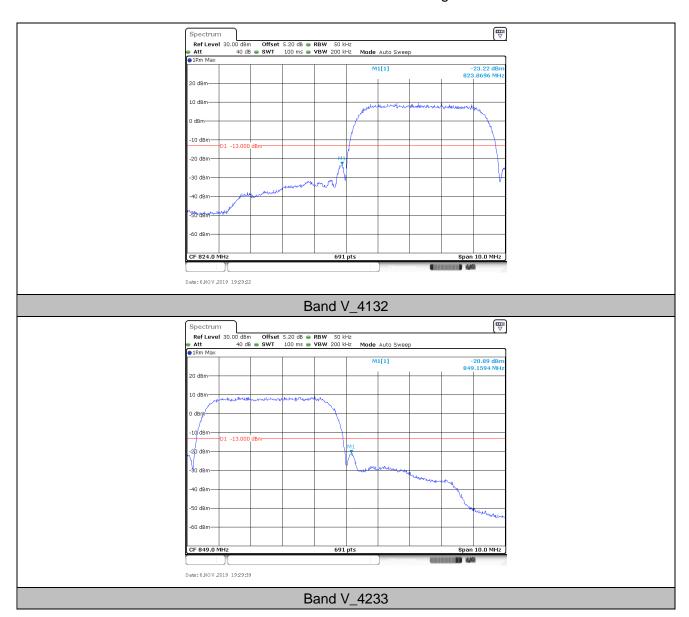
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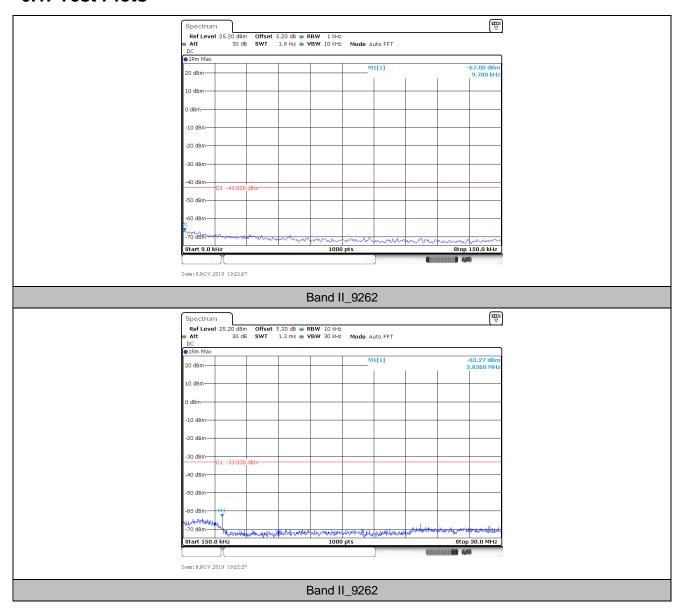
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6. Spurious Emission at Antenna Terminal

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

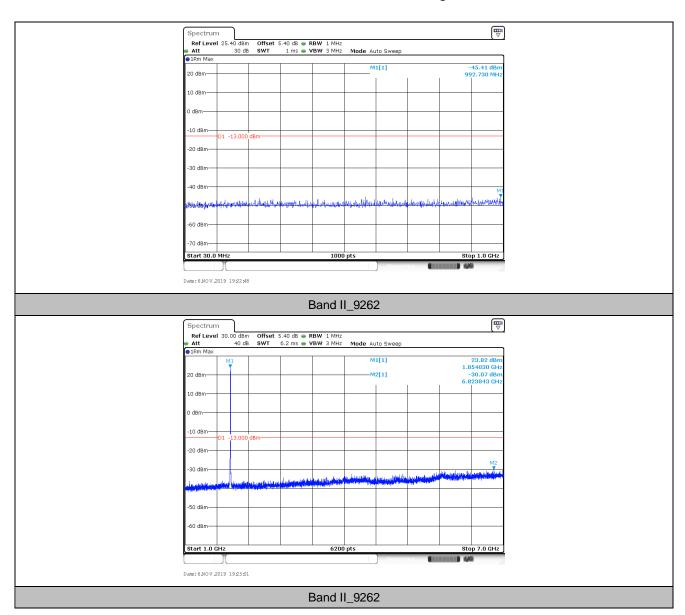






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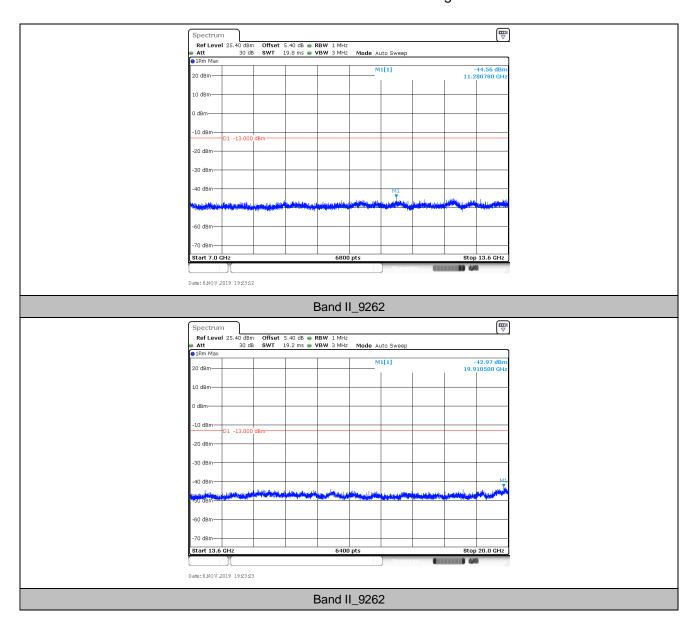
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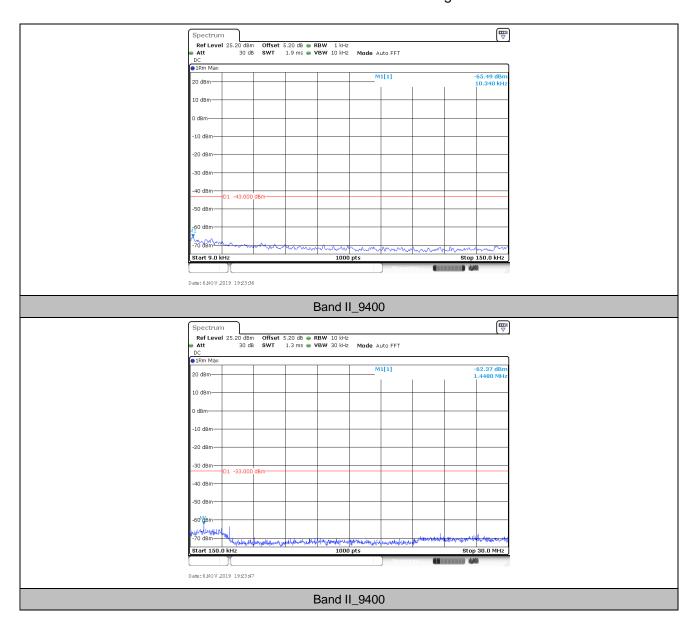
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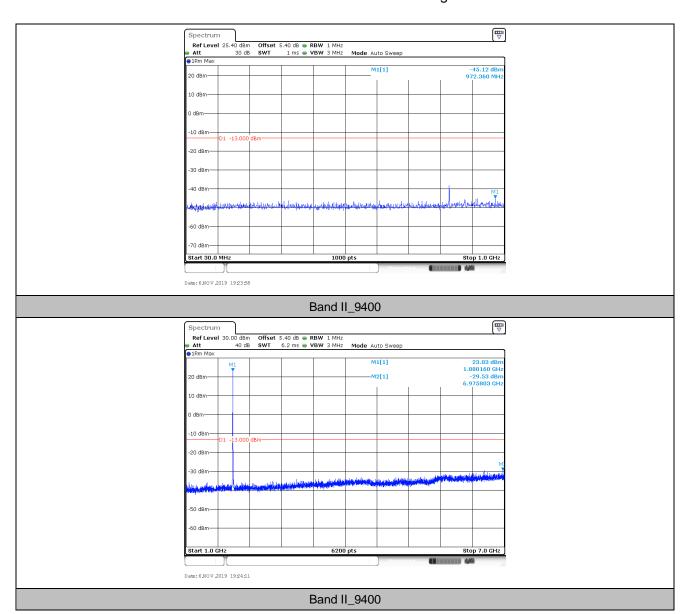
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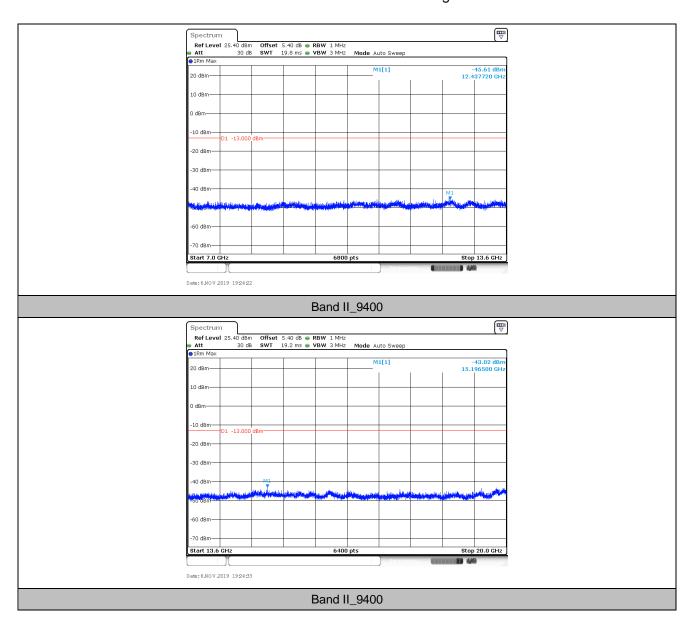
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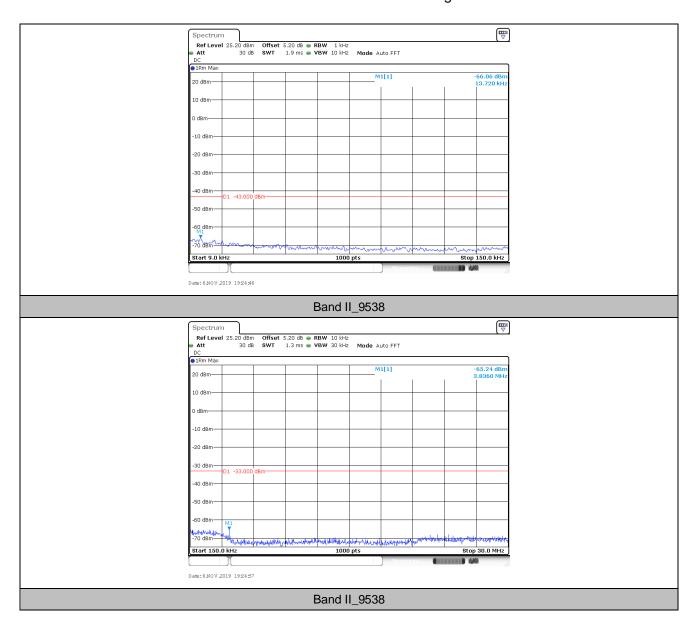






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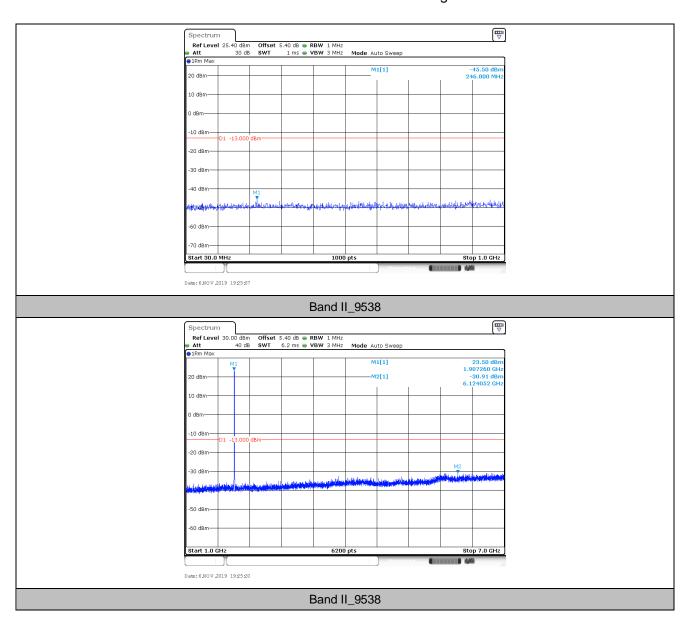
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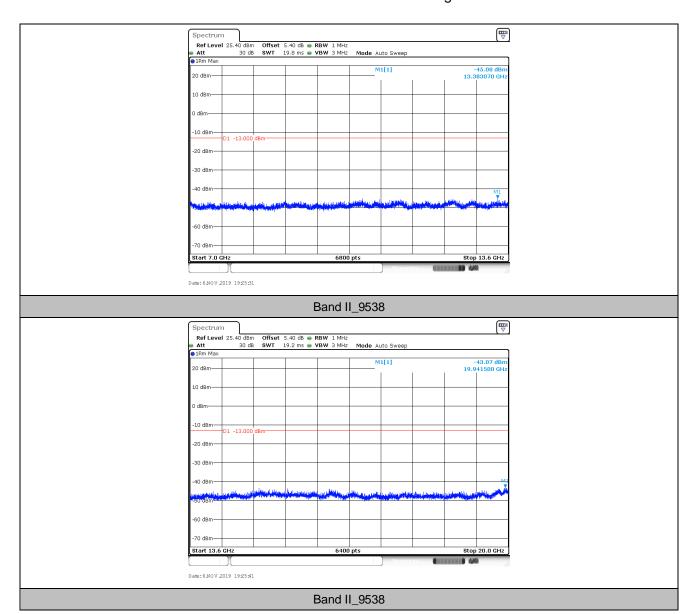
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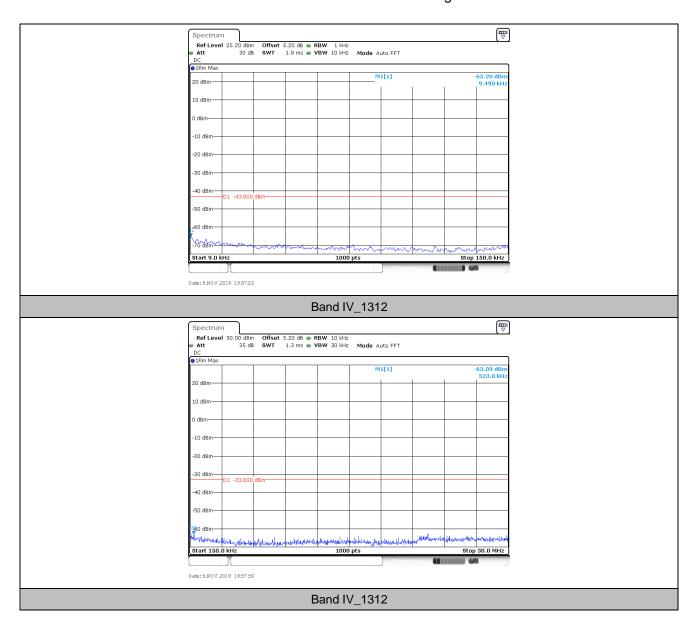
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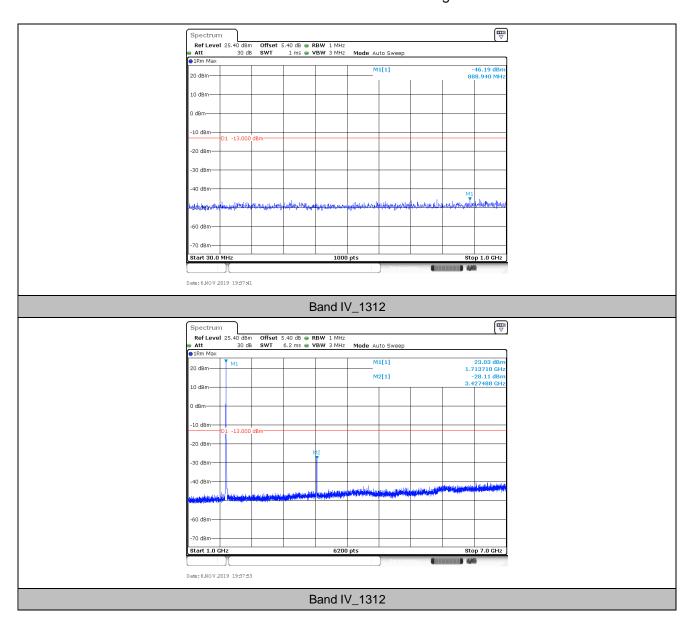
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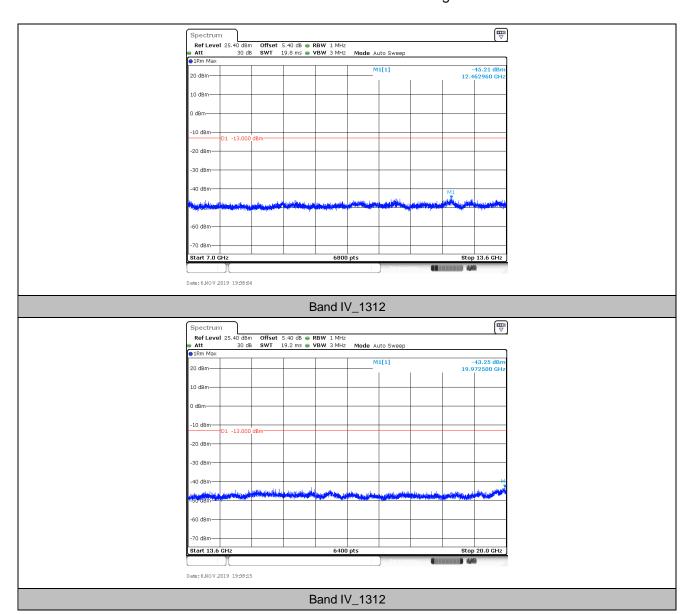
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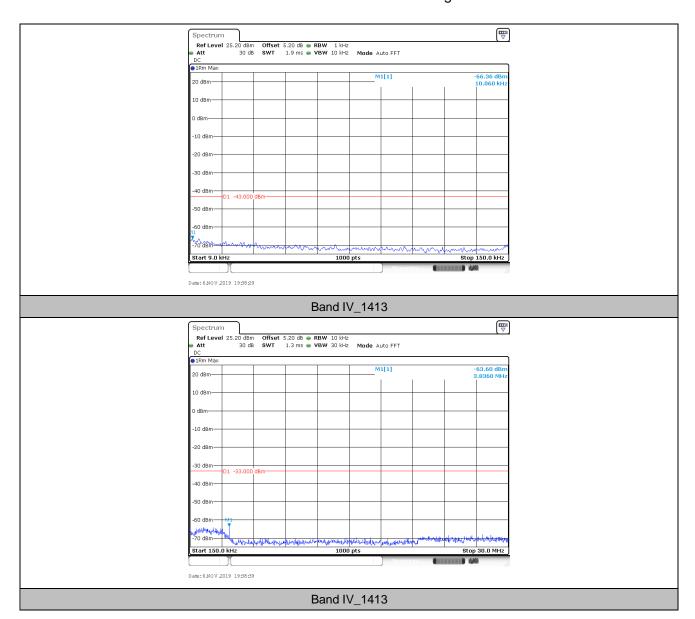
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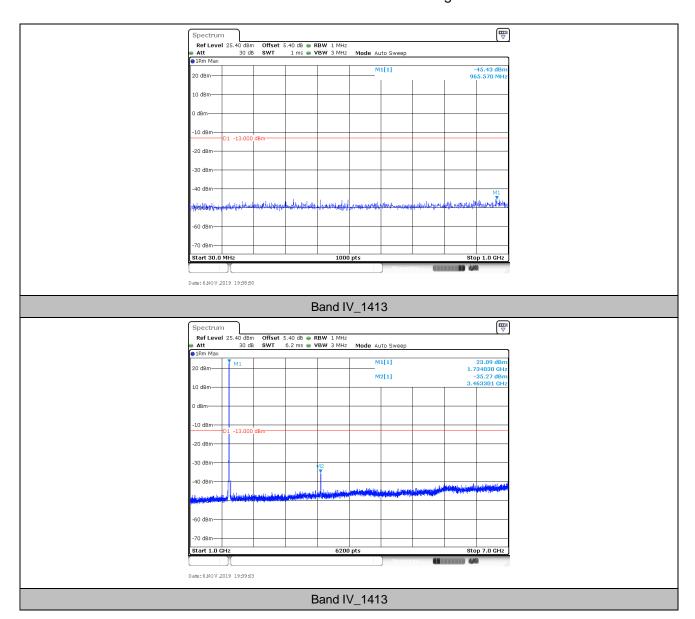






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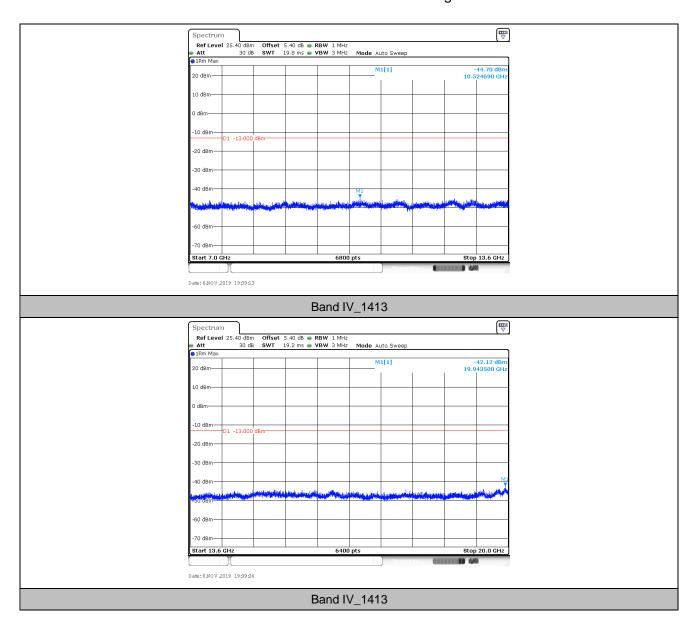
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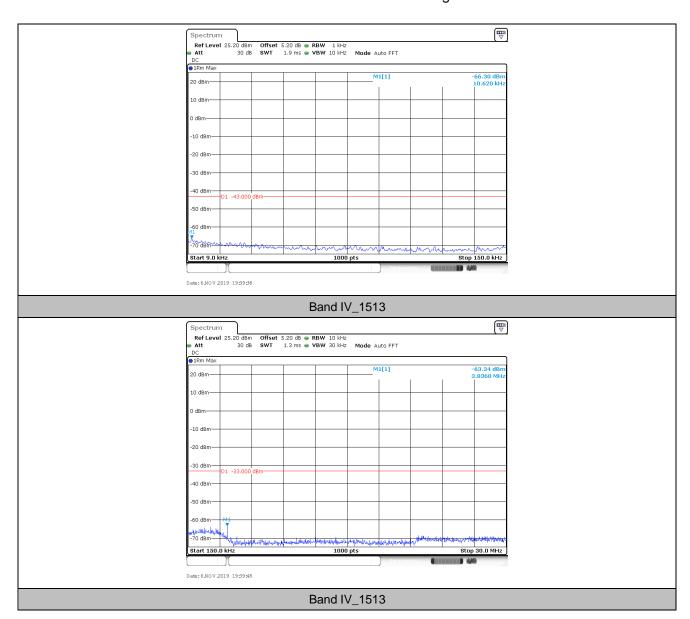
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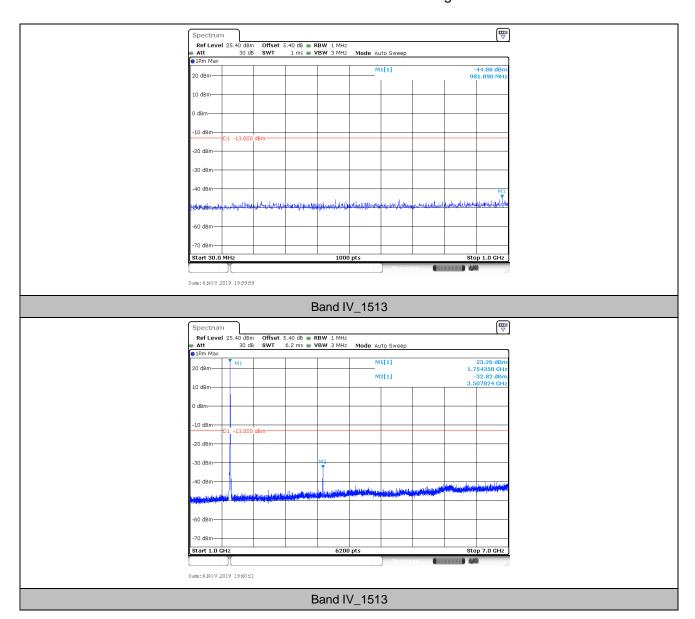






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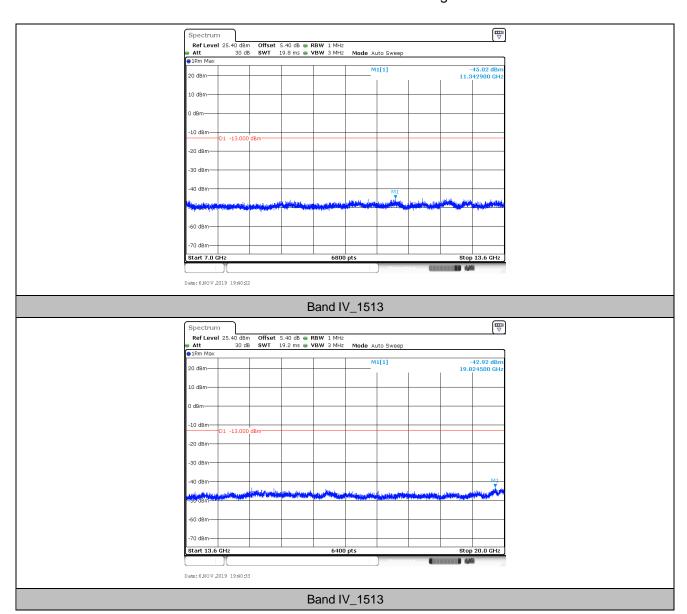
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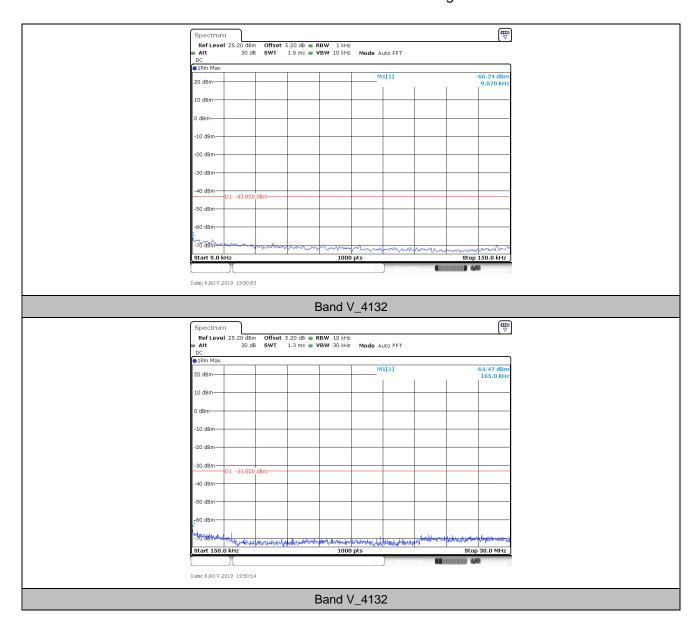
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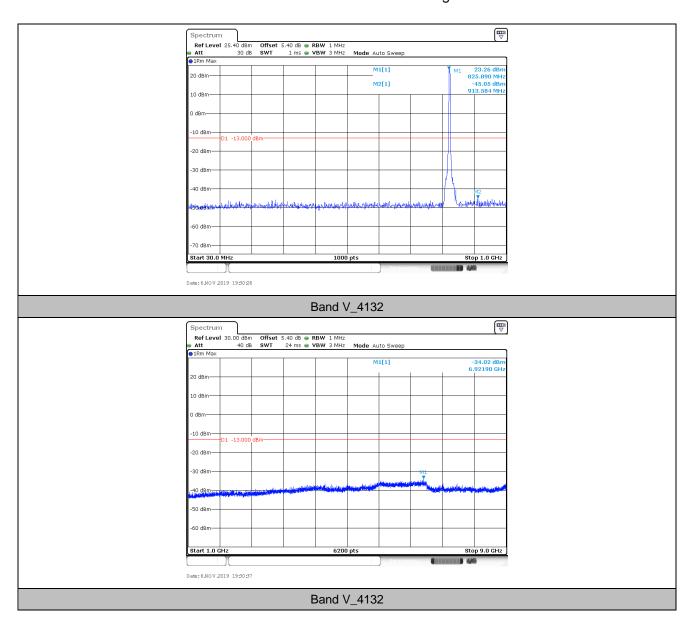


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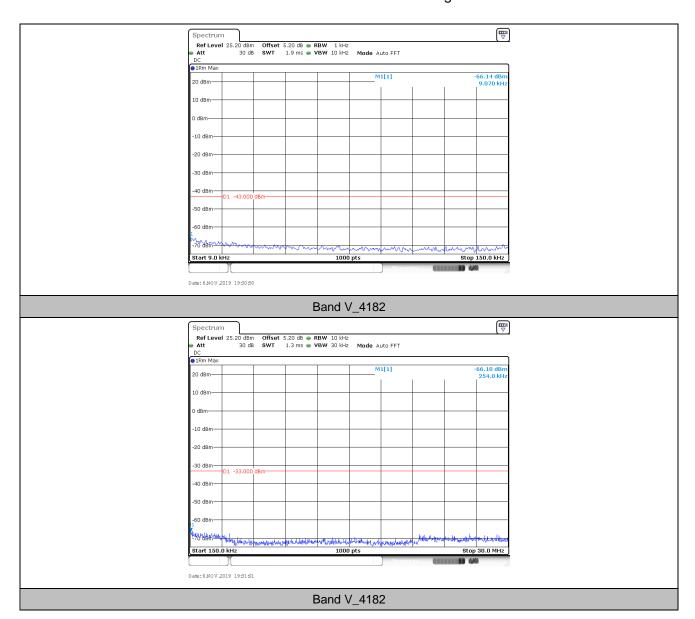
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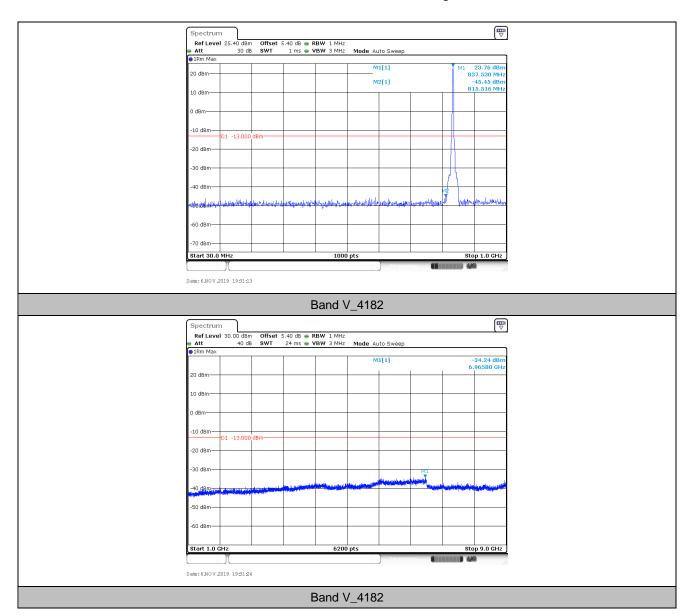


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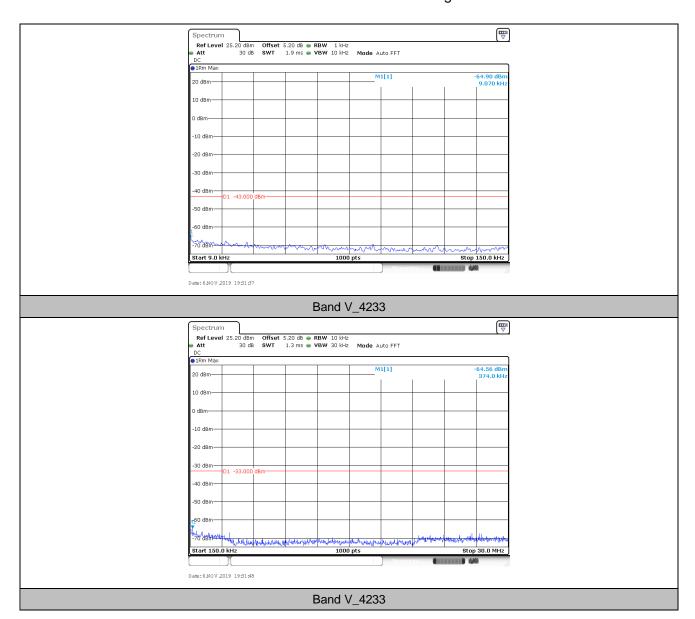
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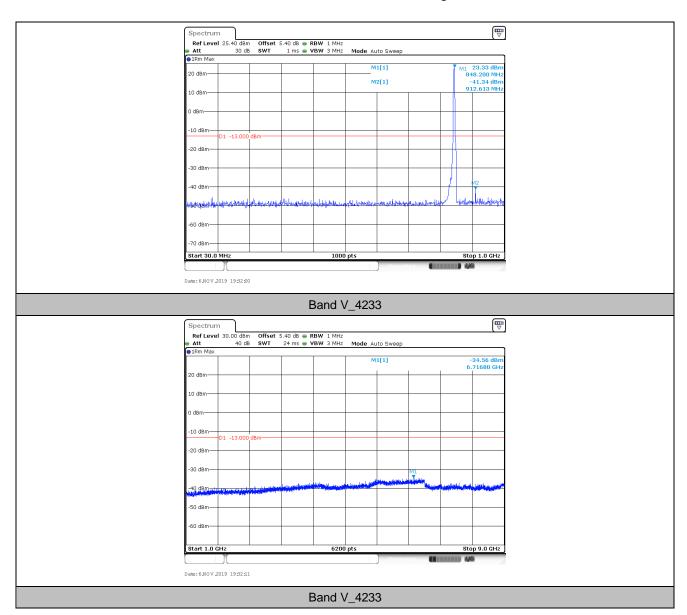
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7. Field Strength of Spurious Radiation

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)	Height (cm)	Angle (°)	Polarization
32.5706	-70.39	-13.00	57.39	185	243	Vertical
110.8050	-64.78	-13.00	51.78	166	165	Vertical
845.4228	-60.33	-13.00	47.33	132	356	Vertical
2703.1406	-36.60	-13.00	23.60	141	343	Vertical
10702.7568	-45.51	-13.00	32.51	172	243	Vertical
17997.4999	-32.94	-13.00	19.94	257	132	Vertical
44.3567	-64.37	-13.00	51.37	191	6	Horizontal
234.6802	-68.43	-13.00	55.43	272	111	Horizontal
888.2989	-59.79	-13.00	46.79	188	111	Horizontal
2699.1398	-35.31	-13.00	22.31	124	196	Horizontal
9308.2103	-47.99	-13.00	34.99	113	76	Horizontal
16398.4466	-36.72	-13.00	23.72	274	111	Horizontal



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7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.4736	-70.43	-13.00	57.43	166	214	Vertical
109.9805	-64.80	-13.00	51.80	173	176	Vertical
889.3175	-60.71	-13.00	47.71	272	40	Vertical
2705.9412	-36.59	-13.00	23.59	122	272	Vertical
10599.2533	-46.14	-13.00	33.14	255	360	Vertical
17995.4999	-33.06	-13.00	20.06	298	247	Vertical
44.8417	-64.47	-13.00	51.47	169	345	Horizontal
230.9455	-67.21	-13.00	54.21	173	35	Horizontal
882.6726	-59.84	-13.00	46.84	288	98	Horizontal
2699.5399	-35.45	-13.00	22.45	211	40	Horizontal
9287.7096	-47.95	-13.00	34.95	246	67	Horizontal
16400.4467	-36.52	-13.00	23.52	218	35	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.6191	-70.36	-13.00	57.36	233	284	Vertical
110.5625	-64.51	-13.00	51.51	272	252	Vertical
844.5982	-61.82	-13.00	48.82	289	59	Vertical
2695.1390	-36.59	-13.00	23.59	212	166	Vertical
10510.2503	-46.24	-13.00	33.24	217	59	Vertical
17994.4998	-33.07	-13.00	20.07	119	284	Vertical
44.8417	-64.06	-13.00	51.06	221	360	Horizontal
234.0982	-67.49	-13.00	54.49	289	124	Horizontal
832.9091	-60.10	-13.00	47.10	197	360	Horizontal
2700.3401	-35.41	-13.00	22.41	238	263	Horizontal
10015.7339	-47.53	-13.00	34.53	173	223	Horizontal
16389.9463	-36.52	-13.00	23.52	297	360	Horizontal



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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)	Height (cm)	Angle (°)	Polarization
75.6893	-66.29	-13.00	53.29	166	113	Vertical
116.0918	-64.62	-13.00	51.62	273	256	Vertical
882.8181	-60.45	-13.00	47.45	221	328	Vertical
2112.2224	-34.15	-13.00	21.15	297	200	Vertical
3426.5142	-41.25	-13.00	28.25	178	189	Vertical
17998.5000	-32.76	-13.00	19.76	294	80	Vertical
42.5136	-64.01	-13.00	51.01	163	226	Horizontal
237.3479	-67.42	-13.00	54.42	278	335	Horizontal
883.3517	-60.80	-13.00	47.80	155	301	Horizontal
2695.1390	-35.46	-13.00	22.46	189	350	Horizontal
3426.5142	-31.77	-13.00	18.77	241	226	Horizontal
16389.9463	-36.64	-13.00	23.64	274	360	Horizontal



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.4736	-69.98	-13.00	56.98	189	256	Vertical
112.0661	-65.16	-13.00	52.16	153	77	Vertical
877.2889	-60.92	-13.00	47.92	272	256	Vertical
2132.2264	-34.35	-13.00	21.35	111	201	Vertical
3463.5155	-48.37	-13.00	35.37	174	190	Vertical
17990.9997	-32.99	-13.00	19.99	163	190	Vertical
44.1627	-64.34	-13.00	51.34	111	248	Horizontal
237.2509	-68.15	-13.00	55.15	232	354	Horizontal
882.2846	-60.55	-13.00	47.55	274	319	Horizontal
2703.1406	-35.29	-13.00	22.29	211	0	Horizontal
3467.5156	-38.94	-13.00	25.94	351	213	Horizontal
16393.9465	-37.01	-13.00	24.01	284	43	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.5221	-70.67	-13.00	57.67	153	350	Vertical
109.3500	-64.17	-13.00	51.17	353	121	Vertical
777.1314	-62.19	-13.00	49.19	125	350	Vertical
2152.2304	-35.20	-13.00	22.20	205	207	Vertical
3503.5168	-44.18	-13.00	31.18	219	350	Vertical
17993.4998	-33.11	-13.00	20.11	255	168	Vertical
44.4052	-64.35	-13.00	51.35	132	77	Horizontal
232.5946	-67.18	-13.00	54.18	272	360	Horizontal
855.7053	-60.61	-13.00	47.61	211	333	Horizontal
2703.5407	-35.48	-13.00	22.48	294	60	Horizontal
3503.5168	-35.30	-13.00	22.30	265	216	Horizontal
16398.9466	-37.17	-13.00	24.17	289	144	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)	Height (cm)	Angle (°)	Polarization
32.6191	-69.88	-13.00	56.88	132	332	Vertical
107.5069	-64.65	-13.00	51.65	172	231	Vertical
594.9562	-63.55	-13.00	50.55	222	124	Vertical
2479.8960	-51.13	-13.00	38.13	297	93	Vertical
9298.7100	-47.79	-13.00	34.79	245	360	Vertical
17995.4999	-32.60	-13.00	19.60	118	163	Vertical
43.1927	-63.14	-13.00	50.14	166	78	Horizontal
228.3749	-68.68	-13.00	55.68	132	293	Horizontal
683.6672	-63.37	-13.00	50.37	172	147	Horizontal
1745.7492	-47.26	-13.00	34.26	252	202	Horizontal
2479.4959	-49.39	-13.00	36.39	173	119	Horizontal
16402.4467	-36.59	-13.00	23.59	121	112	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.2311	-70.70	-13.00	57.70	152	271	Vertical
109.7380	-64.97	-13.00	51.97	233	302	Vertical
620.1775	-63.13	-13.00	50.13	277	302	Vertical
2991.9984	-55.64	-13.00	42.64	219	101	Vertical
9897.7299	-47.16	-13.00	34.16	272	125	Vertical
17993.4998	-32.54	-13.00	19.54	211	61	Vertical
40.6220	-63.52	-13.00	50.52	236	302	Horizontal
231.7701	-68.10	-13.00	55.10	172	302	Horizontal
601.8436	-63.03	-13.00	50.03	245	302	Horizontal
1746.9494	-55.37	-13.00	42.37	172	303	Horizontal
2480.2961	-46.77	-13.00	33.77	111	210	Horizontal
9300.2100	-47.73	-13.00	34.73	187	85	Horizontal
16393.4464	-37.14	-13.00	24.14	197	116	Horizontal



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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
32.5221	-69.56	-13.00	56.56	188	315	Vertical
109.8835	-63.89	-13.00	50.89	233	86	Vertical
637.4444	-63.92	-13.00	50.92	132	315	Vertical
1746.1492	-56.88	-13.00	43.88	172	121	Vertical
2983.9968	-56.01	-13.00	43.01	121	338	Vertical
17988.9996	-32.94	-13.00	19.94	285	245	Vertical
42.5621	-63.97	-13.00	50.97	231	78	Horizontal
237.7844	-68.31	-13.00	55.31	272	44	Horizontal
1745.7492	-57.26	-13.00	44.26	211	69	Horizontal
2701.1402	-55.21	-13.00	42.21	189	115	Horizontal
9992.2331	-47.43	-13.00	34.43	177	144	Horizontal
16391.9464	-36.83	-13.00	23.83	145	44	Horizontal

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.
- 2 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.



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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	3.51	0.001896	±2.5	PASS
Band II	9262	VN	TN	4.23	0.002286	±2.5	PASS
Band II	9262	VH	TN	3.88	0.002097	±2.5	PASS
Band II	9400	VL	TN	-0.60	-0.000320	±2.5	PASS
Band II	9400	VN	TN	0.26	0.000137	±2.5	PASS
Band II	9400	VH	TN	0.51	0.000274	±2.5	PASS
Band II	9538	VL	TN	-4.48	-0.002347	±2.5	PASS
Band II	9538	VN	TN	-4.73	-0.002482	±2.5	PASS
Band II	9538	VH	TN	-5.00	-0.002621	±2.5	PASS
Band IV	1312	VL	TN	15.29	0.008930	±2.5	PASS
Band IV	1312	VN	TN	15.75	0.009198	±2.5	PASS
Band IV	1312	VH	TN	15.98	0.009331	±2.5	PASS
Band IV	1413	VL	TN	4.91	0.002836	±2.5	PASS
Band IV	1413	VN	TN	-4.35	-0.002510	±2.5	PASS
Band IV	1413	VH	TN	-3.10	-0.001792	±2.5	PASS
Band IV	1513	VL	TN	-14.55	-0.008301	±2.5	PASS
Band IV	1513	VN	TN	-15.18	-0.008664	±2.5	PASS
Band IV	1513	VH	TN	-15.10	-0.008615	±2.5	PASS
Band V	4132	VL	TN	5.11	0.006180	±2.5	PASS
Band V	4132	VN	TN	2.60	0.003142	±2.5	PASS
Band V	4132	VH	TN	3.30	0.003999	±2.5	PASS
Band V	4182	VL	TN	-0.31	-0.000376	±2.5	PASS
Band V	4182	VN	TN	0.14	0.000162	±2.5	PASS
Band V	4182	VH	TN	-0.06	-0.000077	±2.5	PASS
Band V	4233	VL	TN	-1.52	-0.001800	±2.5	PASS
Band V	4233	VN	TN	-2.14	-0.002526	±2.5	PASS
Band V	4233	VH	TN	-1.99	-0.002349	±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	5.20	0.002807	±2.5	PASS
Band II	9262	VN	-20	4.51	0.002433	±2.5	PASS
Band II	9262	VN	-10	3.86	0.002081	±2.5	PASS
Band II	9262	VN	0	4.32	0.002332	±2.5	PASS
Band II	9262	VN	10	4.04	0.002182	±2.5	PASS
Band II	9262	VN	20	3.96	0.002139	±2.5	PASS
Band II	9262	VN	30	4.08	0.002201	±2.5	PASS
Band II	9262	VN	40	5.09	0.002745	±2.5	PASS
Band II	9262	VN	50	3.81	0.002058	±2.5	PASS
Band II	9400	VN	-30	-0.20	-0.000107	±2.5	PASS
Band II	9400	VN	-20	-0.89	-0.000476	±2.5	PASS
Band II	9400	VN	-10	0.19	0.000099	±2.5	PASS
Band II	9400	VN	0	0.21	0.000114	±2.5	PASS
Band II	9400	VN	10	-0.66	-0.000350	±2.5	PASS
Band II	9400	VN	20	-0.24	-0.000126	±2.5	PASS
Band II	9400	VN	30	0.46	0.000243	±2.5	PASS
Band II	9400	VN	40	-0.82	-0.000434	±2.5	PASS
Band II	9400	VN	50	-0.59	-0.000312	±2.5	PASS
Band II	9538	VN	-30	-4.90	-0.002568	±2.5	PASS
Band II	9538	VN	-20	-5.11	-0.002677	±2.5	PASS
Band II	9538	VN	-10	-5.23	-0.002741	±2.5	PASS
Band II	9538	VN	0	-5.14	-0.002692	±2.5	PASS
Band II	9538	VN	10	-5.21	-0.002733	±2.5	PASS
Band II	9538	VN	20	-4.91	-0.002572	±2.5	PASS
Band II	9538	VN	30	-5.11	-0.002677	±2.5	PASS
Band II	9538	VN	40	-4.91	-0.002572	±2.5	PASS
Band II	9538	VN	50	-4.14	-0.002171	±2.5	PASS
Band IV	1312	VN	-30	16.76	0.009787	±2.5	PASS
Band IV	1312	VN	-20	16.29	0.009515	±2.5	PASS
Band IV	1312	VN	-10	15.19	0.008872	±2.5	PASS
Band IV	1312	VN	0	16.24	0.009486	±2.5	PASS
Band IV	1312	VN	10	15.41	0.009001	±2.5	PASS
Band IV	1312	VN	20	16.94	0.009895	±2.5	PASS
Band IV	1312	VN	30	15.86	0.009260	±2.5	PASS
Band IV	1312	VN	40	15.78	0.009214	±2.5	PASS
Band IV	1312	VN	50	16.37	0.009561	±2.5	PASS
Band IV	1413	VN	-30	-1.03	-0.000594	±2.5	PASS
Band IV	1413	VN	-20	-1.54	-0.000892	±2.5	PASS
Band IV	1413	VN	-10	-2.25	-0.001296	±2.5	PASS
Band IV	1413	VN	0	-1.55	-0.000896	±2.5	PASS



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Band IV	1413	VN	20	-1.21	-0.000698	±2.5	PASS
Band IV	1413	VN	30	-1.09	-0.000632	±2.5	PASS
Band IV	1413	VN	40	-1.22	-0.000706	±2.5	PASS
Band IV	1413	VN	50	-0.86	-0.000495	±2.5	PASS
Band IV	1513	VN	-30	-14.62	-0.008342	±2.5	PASS
Band IV	1513	VN	-20	-15.03	-0.008579	±2.5	PASS
Band IV	1513	VN	-10	-14.92	-0.008513	±2.5	PASS
Band IV	1513	VN	0	-14.83	-0.008464	±2.5	PASS
Band IV	1513	VN	10	-15.04	-0.008583	±2.5	PASS
Band IV	1513	VN	20	-14.77	-0.008427	±2.5	PASS
Band IV	1513	VN	30	-15.45	-0.008815	±2.5	PASS
Band IV	1513	VN	40	-14.01	-0.007995	±2.5	PASS
Band IV	1513	VN	50	-13.92	-0.007942	±2.5	PASS
Band V	4132	VN	-30	2.35	0.002848	±2.5	PASS
Band V	4132	VN	-20	1.65	0.001991	±2.5	PASS
Band V	4132	VN	-10	0.77	0.000926	±2.5	PASS
Band V	4132	VN	0	3.03	0.003661	±2.5	PASS
Band V	4132	VN	10	1.90	0.002294	±2.5	PASS
Band V	4132	VN	20	2.47	0.002995	±2.5	PASS
Band V	4132	VN	30	2.80	0.003393	±2.5	PASS
Band V	4132	VN	40	2.87	0.003471	±2.5	PASS
Band V	4132	VN	50	2.07	0.002501	±2.5	PASS
Band V	4182	VN	-30	0.01	0.000009	±2.5	PASS
Band V	4182	VN	-20	-0.24	-0.000291	±2.5	PASS
Band V	4182	VN	-10	-0.14	-0.000162	±2.5	PASS
Band V	4182	VN	0	-0.31	-0.000376	±2.5	PASS
Band V	4182	VN	10	-0.41	-0.000496	±2.5	PASS
Band V	4182	VN	20	-0.39	-0.000470	±2.5	PASS
Band V	4182	VN	30	-0.17	-0.000205	±2.5	PASS
Band V	4182	VN	40	-0.11	-0.000137	±2.5	PASS
Band V	4182	VN	50	-0.29	-0.000351	±2.5	PASS
Band V	4233	VN	-30	-2.00	-0.002357	±2.5	PASS
Band V	4233	VN	-20	-2.11	-0.002492	±2.5	PASS
Band V	4233	VN	-10	-2.04	-0.002408	±2.5	PASS
Band V	4233	VN	0	-1.65	-0.001952	±2.5	PASS
Band V	4233	VN	10	-2.05	-0.002425	±2.5	PASS
Band V	4233	VN	20	-1.95	-0.002306	±2.5	PASS
Band V	4233	VN	30	-1.97	-0.002332	±2.5	PASS
Band V	4233	VN	40	-2.01	-0.002374	±2.5	PASS
Band V	4233	VN	50	-2.19	-0.002585	±2.5	PASS
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