

Appendix B

WCDMA Band V





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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Subtest	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
WCDMA	-	4132	23.45	18.00	38.45	PASS
WCDMA	-	4182	23.56	18.11	38.45	PASS
WCDMA	-	4233	23.51	18.06	38.45	PASS
HSDPA	1	4132	22.75	17.3	38.45	PASS
HSDPA	2	4132	22.76	17.31	38.45	PASS
HSDPA	3	4132	22.27	16.82	38.45	PASS
HSDPA	4	4132	22.33	16.88	38.45	PASS
HSDPA	1	4182	22.74	17.29	38.45	PASS
HSDPA	2	4182	22.77	17.32	38.45	PASS
HSDPA	3	4182	22.23	16.78	38.45	PASS
HSDPA	4	4182	22.24	16.79	38.45	PASS
HSDPA	1	4233	22.58	17.13	38.45	PASS
HSDPA	2	4233	22.60	17.15	38.45	PASS
HSDPA	3	4233	22.09	16.64	38.45	PASS
HSDPA	4	4233	22.11	16.66	38.45	PASS
HSUPA	1	4132	22.88	17.43	38.45	PASS
HSUPA	2	4132	20.65	15.2	38.45	PASS
HSUPA	3	4132	21.73	16.28	38.45	PASS
HSUPA	4	4132	20.97	15.52	38.45	PASS
HSUPA	1	4182	22.75	17.3	38.45	PASS
HSUPA	2	4182	20.62	15.17	38.45	PASS
HSUPA	3	4182	21.72	16.27	38.45	PASS
HSUPA	4	4182	21.04	15.59	38.45	PASS
HSUPA	1	4233	22.63	17.18	38.45	PASS
HSUPA	2	4233	20.87	15.42	38.45	PASS
HSUPA	3	4233	21.61	16.16	38.45	PASS
HSUPA	4	4233	20.90	15.45	38.45	PASS
DC-HSDPA	1	4132	22.71	17.26	38.45	PASS
DC-HSDPA	2	4132	22.66	17.21	38.45	PASS
DC-HSDPA	3	4132	22.23	16.78	38.45	PASS
DC-HSDPA	4	4132	22.23	16.78	38.45	PASS
DC-HSDPA	1	4182	22.77	17.32	38.45	PASS
DC-HSDPA	2	4182	22.68	17.23	38.45	PASS



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DC-HSDPA	3	4182	22.21	16.76	38.45	PASS
DC-HSDPA	4	4182	22.16	16.71	38.45	PASS
DC-HSDPA	1	4233	22.59	17.14	38.45	PASS
DC-HSDPA	2	4233	22.60	17.15	38.45	PASS
DC-HSDPA	3	4233	22.12	16.67	38.45	PASS
DC-HSDPA	4	4233	22.14	16.69	38.45	PASS
HSPA+	16QAM	4132	21.65	16.2	38.45	PASS
HSPA+	16QAM	4182	21.62	16.17	38.45	PASS
HSPA+	16QAM	4233	21.61	16.16	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]



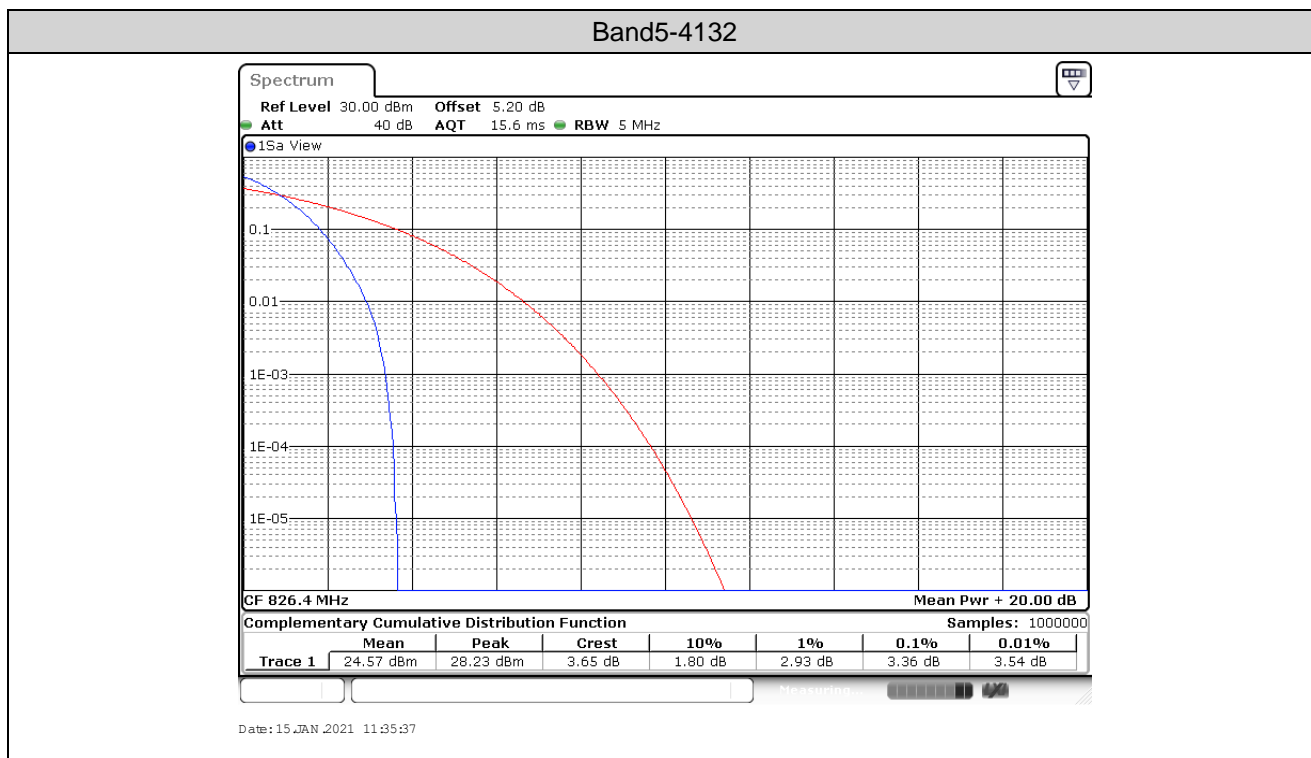


2. Peak-to-Average Ratio(CCDF)

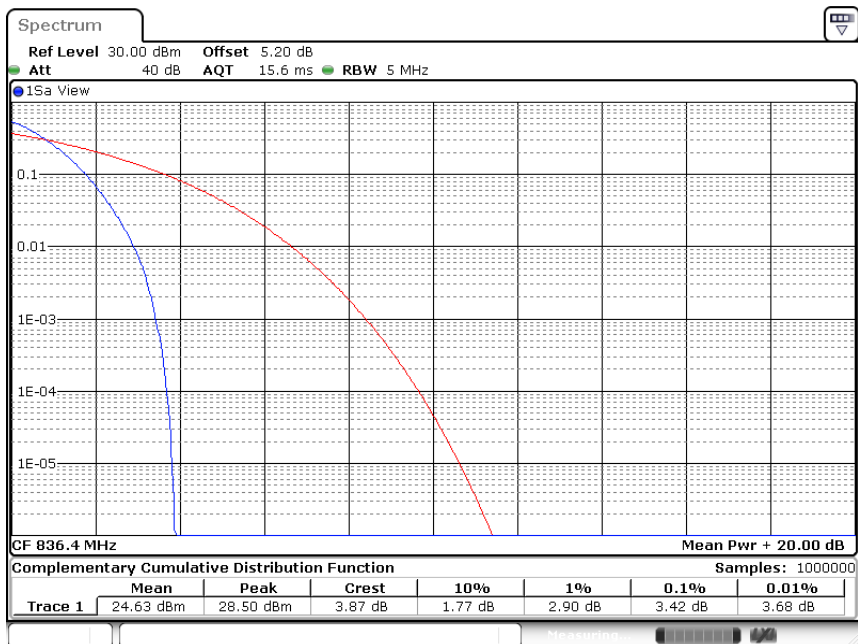
2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	3.36	13	PASS
Band5	4182	3.42	13	PASS
Band5	4233	3.45	13	PASS

2.2. Test Plots

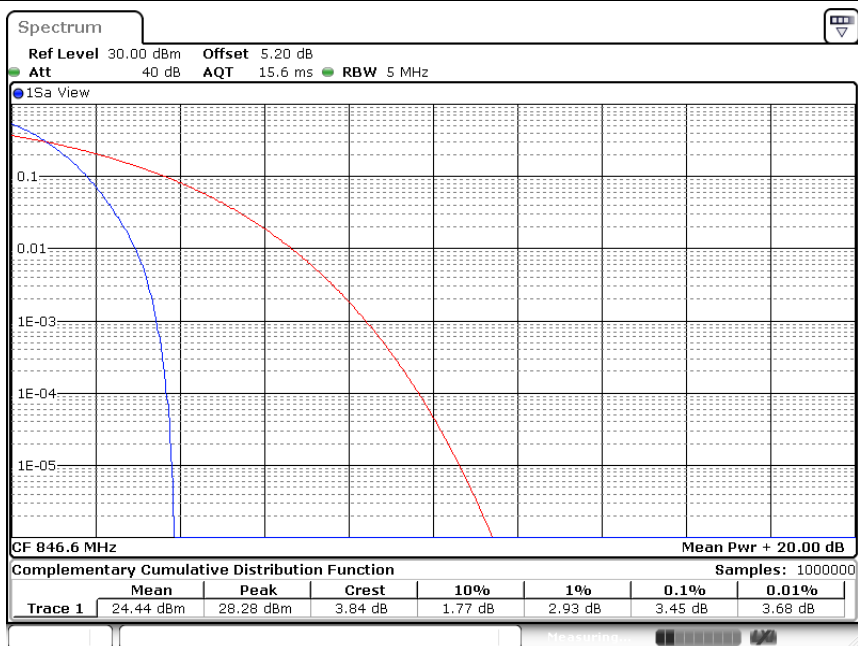


Band5-4182



Date: 15 JAN 2021 11:35:52

Band5-4233



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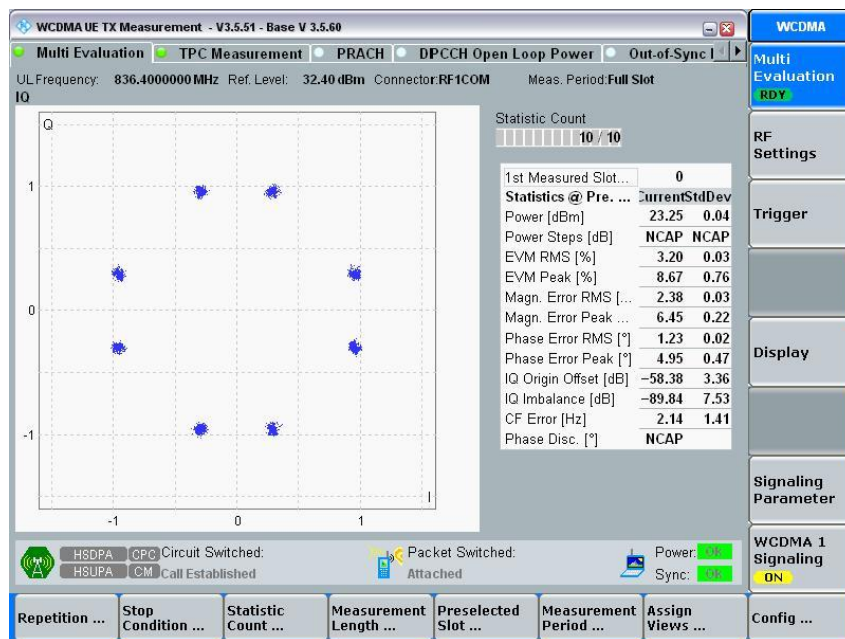


3. Modulation Characteristics

3.1. Test Band = WCDMA Band V

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



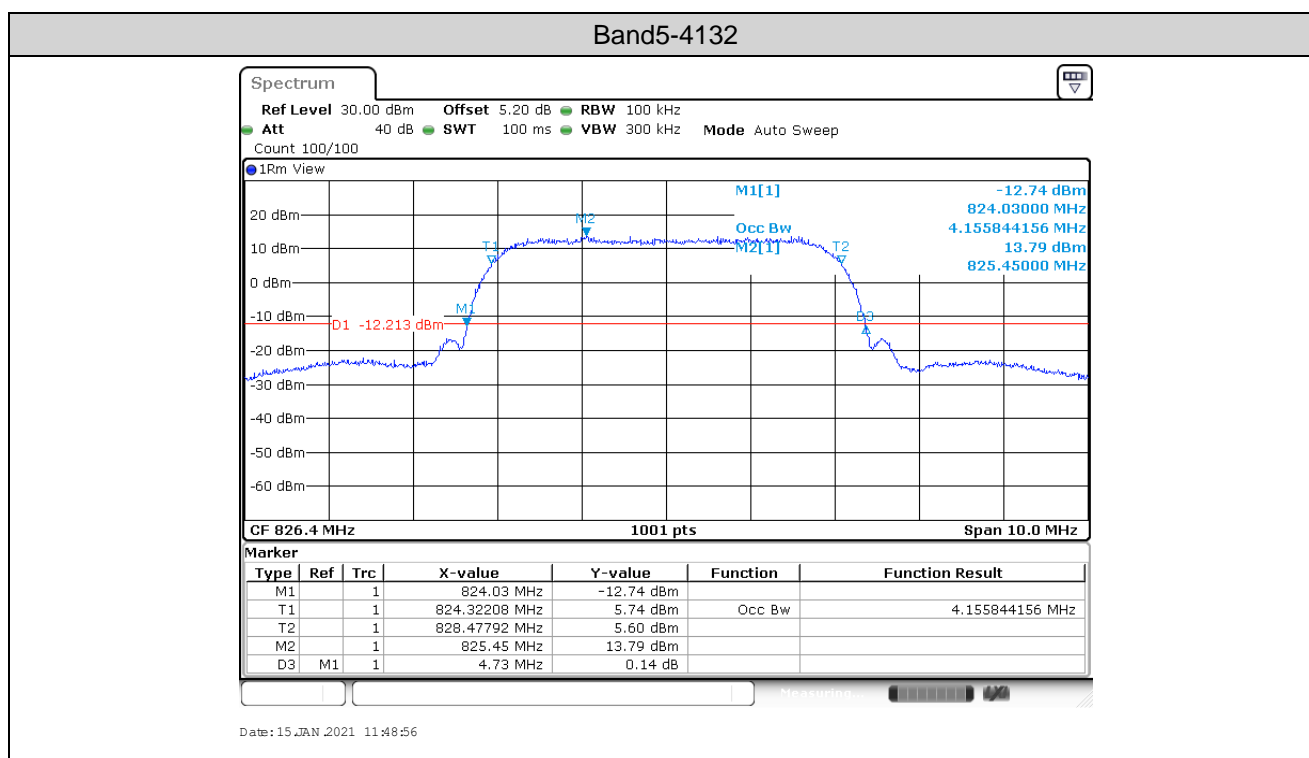


4. 26dB Bandwidth and Occupied Bandwidth

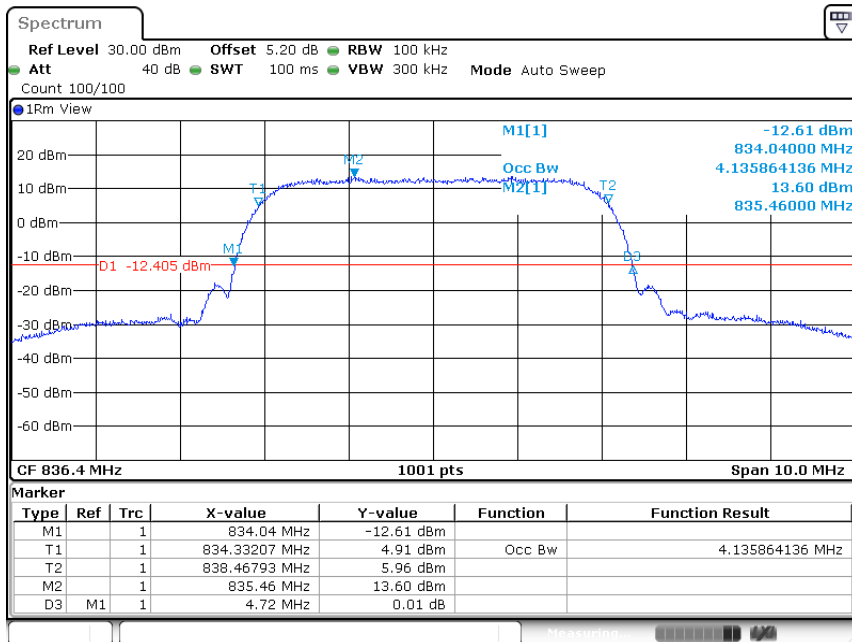
4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.156	4.730	---	PASS
Band5	4182	4.136	4.720	---	PASS
Band5	4233	4.136	4.720	---	PASS

4.2. Test Plots

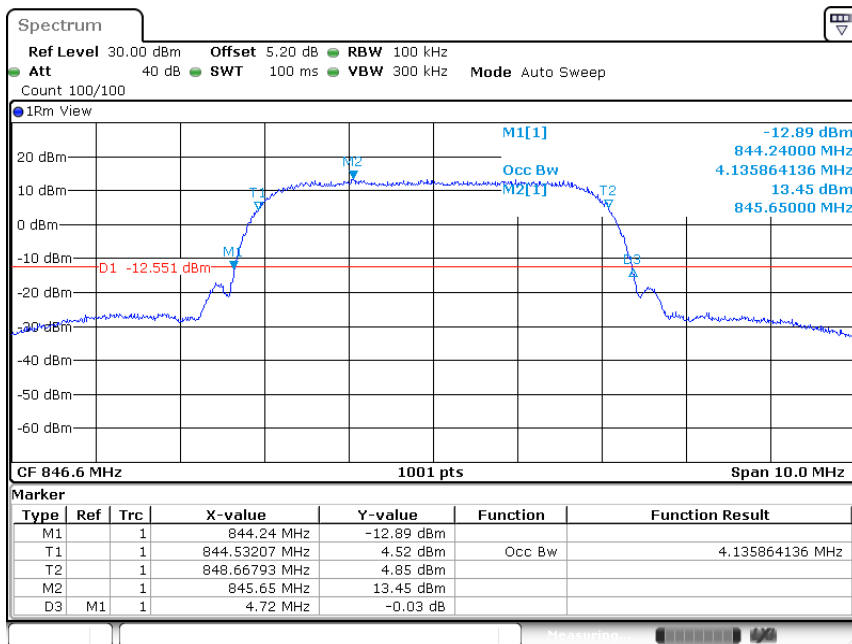


Band5-4182



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Band5-4233



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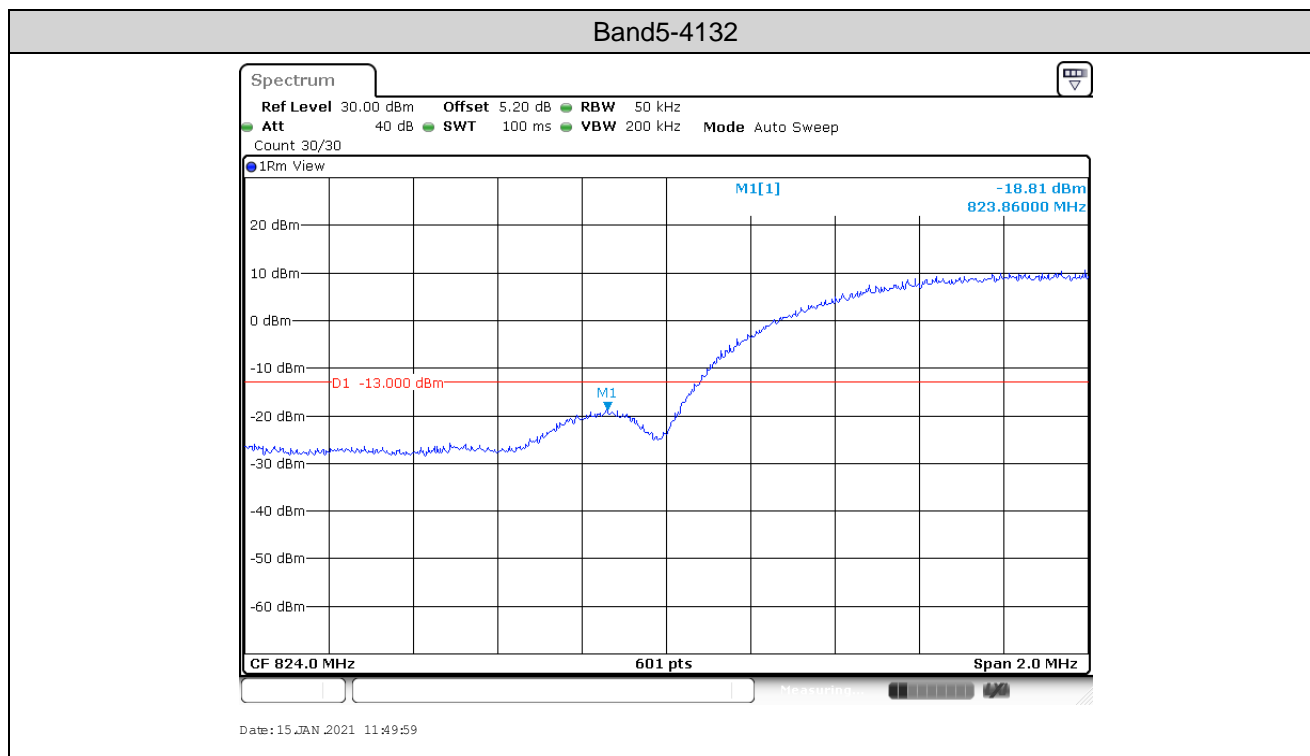


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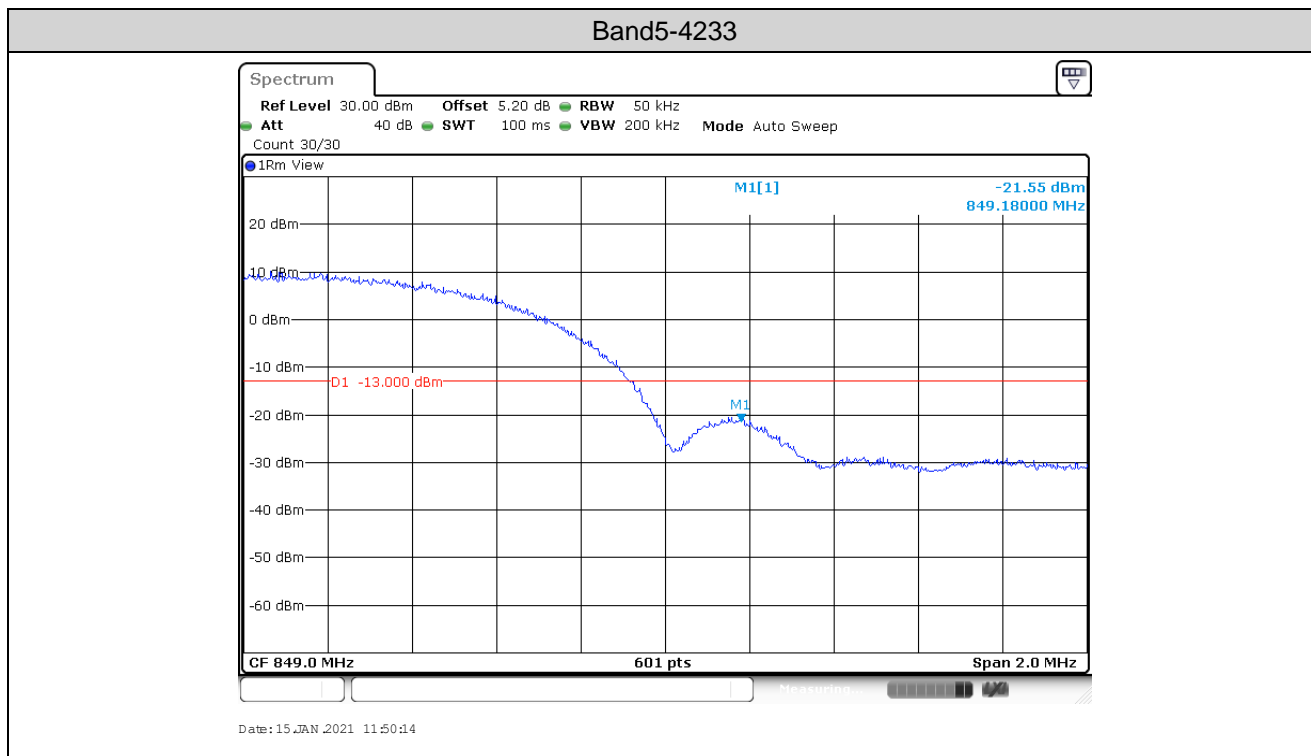
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5. Band Edge Compliance

5.1. Test Plots



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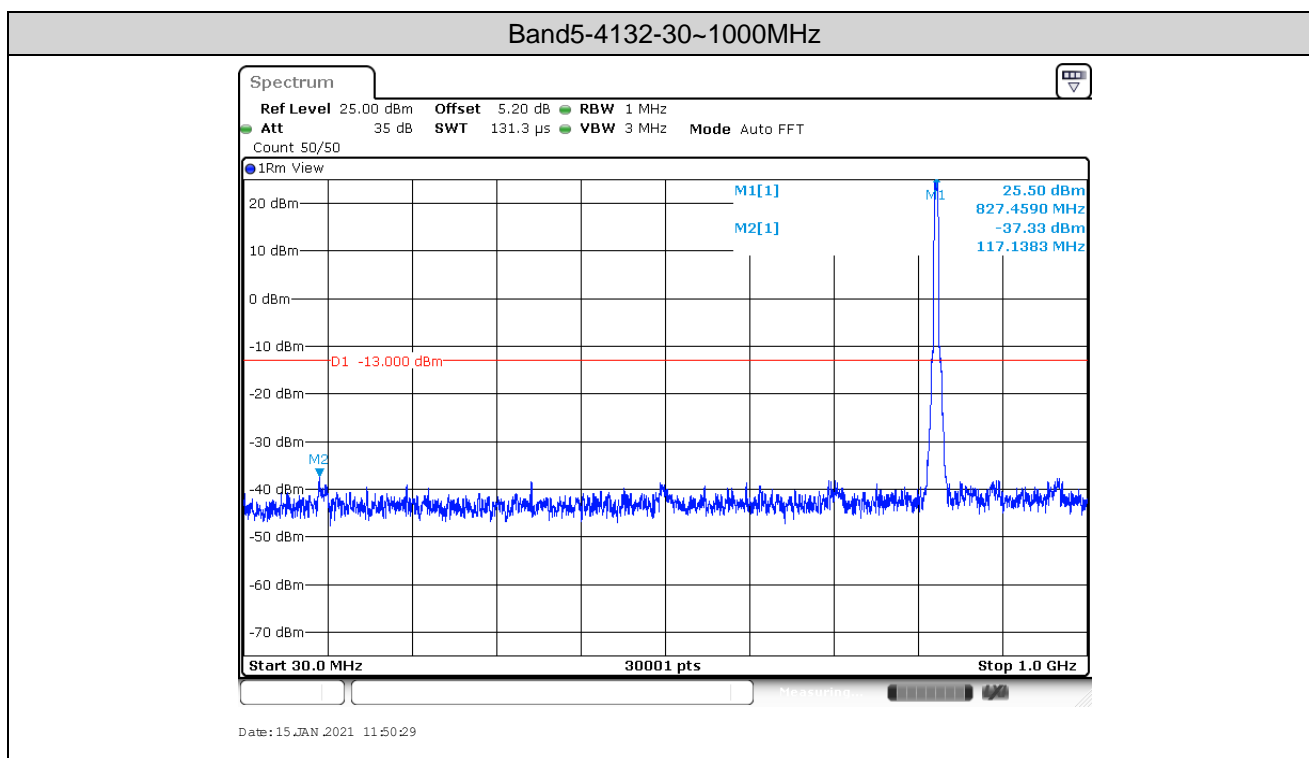
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6. Spurious Emission at Antenna Terminal

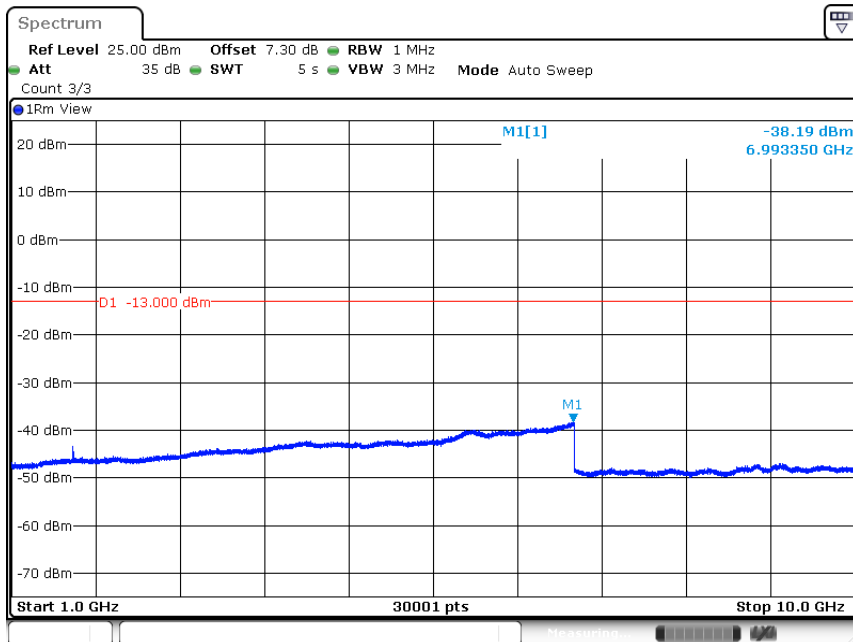
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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

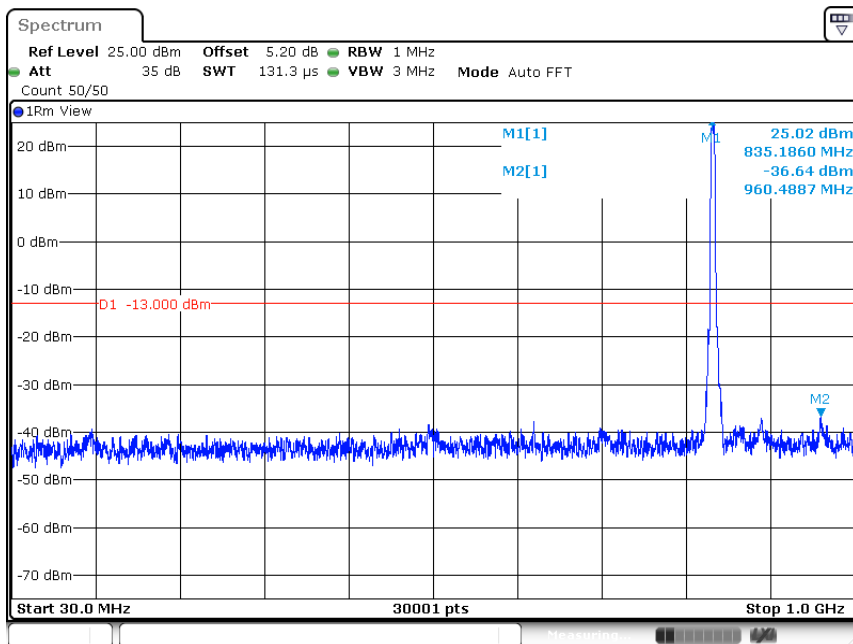


Band5-4132-1000~10000MHz



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Band5-4182-30~1000MHz



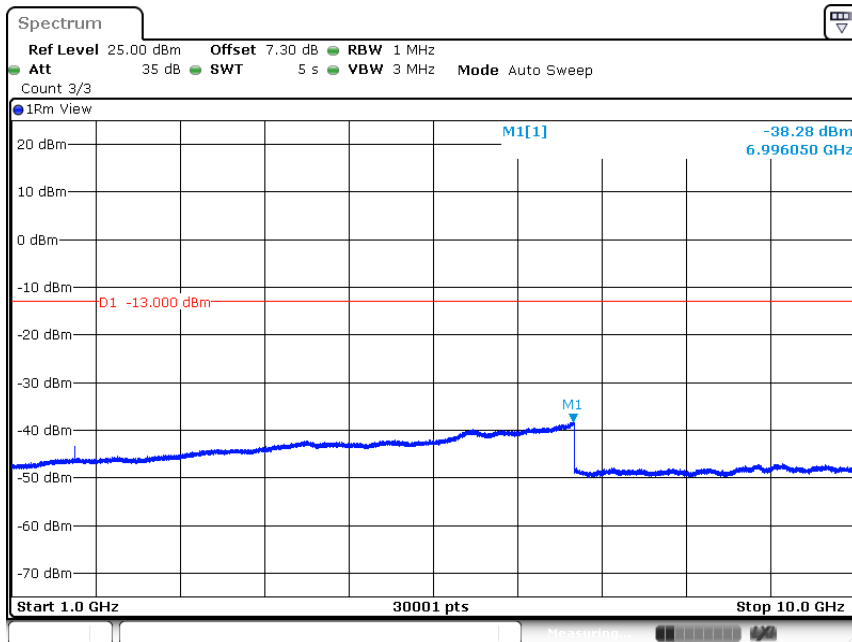
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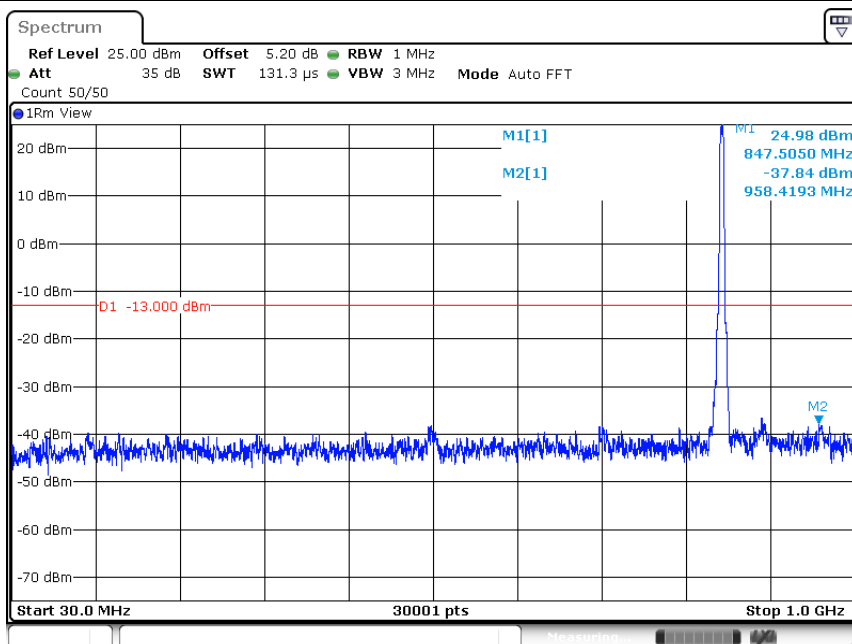
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Band5-4182-1000~10000MHz



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Band5-4233-30~1000MHz

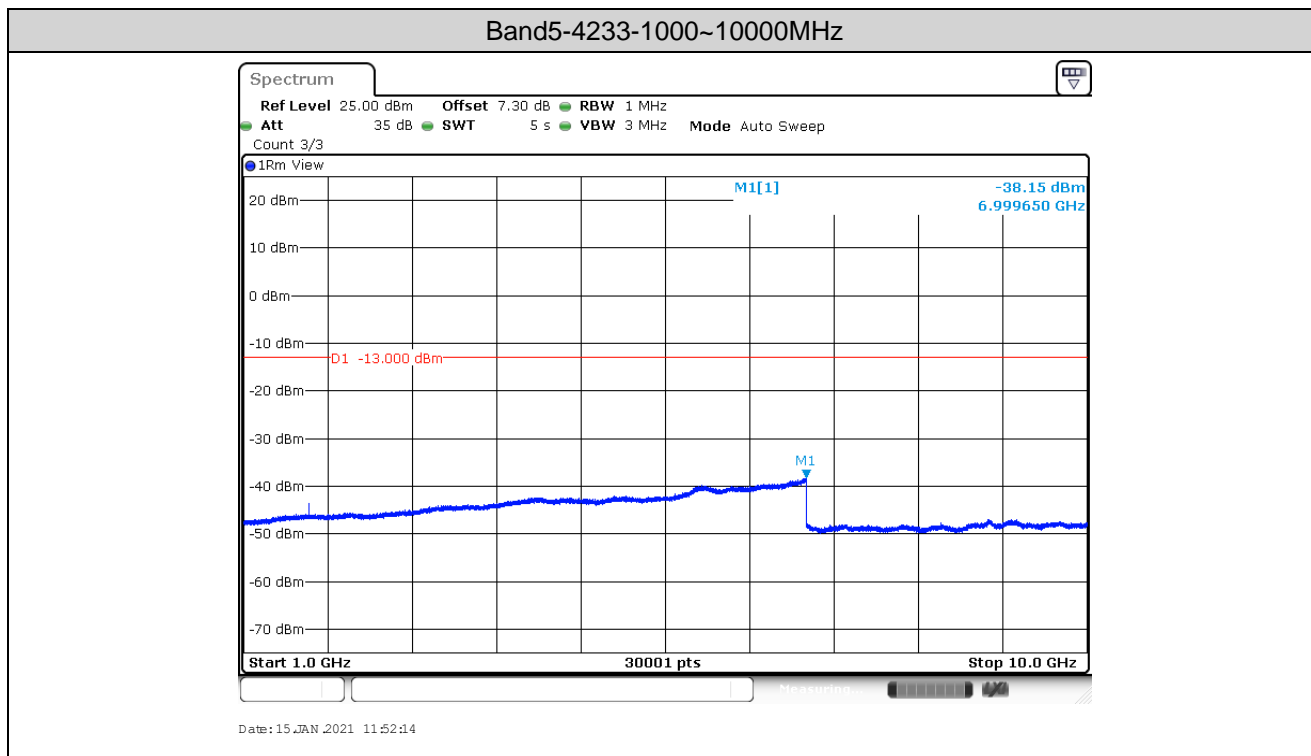


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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA_V_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9754	-73.11	-64.09	-13.00	51.09	Horizontal
2	341.6515	-73.78	-69.24	-13.00	56.24	Horizontal
3	1525.0656	-60.13	-55.91	-13.00	42.91	Horizontal
4	2699.7125	-59.53	-47.93	-13.00	34.93	Horizontal
5	5295.8432	-54.75	-53.23	-13.00	40.23	Horizontal
6	9597.4866	-57.22	-50.73	-13.00	37.73	Horizontal



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7.2. Test Band = WCDMA_V_TM1

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.3988	-72.56	-63.68	-13.00	50.68	Vertical
2	547.0746	-73.25	-66.07	-13.00	53.07	Vertical
3	1696.0870	-59.79	-54.56	-13.00	41.56	Vertical
4	2712.4641	-59.70	-49.18	-13.00	36.18	Vertical
5	5299.8100	-54.81	-53.73	-13.00	40.73	Vertical
6	9844.5948	-57.37	-49.64	-13.00	36.64	Vertical



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7.3. Test Band = WCDMA_V_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1880	-73.23	-64.15	-13.00	51.15	Horizontal
2	399.2524	-73.46	-67.79	-13.00	54.79	Horizontal
3	1546.0683	-60.13	-55.84	-13.00	42.84	Horizontal
4	2705.4632	-59.36	-47.73	-13.00	34.73	Horizontal
5	5280.4427	-54.36	-53.17	-13.00	40.17	Horizontal
6	9350.8450	-57.46	-50.80	-13.00	37.80	Horizontal



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7.4. Test Band = WCDMA_V_TM1
7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.6413	-73.00	-64.14	-13.00	51.14	Vertical
2	506.6933	-73.16	-66.31	-13.00	53.31	Vertical
3	1649.8312	-59.82	-54.95	-13.00	41.95	Vertical
4	2969.7462	-59.32	-46.02	-13.00	33.02	Vertical
5	5313.8105	-53.99	-53.10	-13.00	40.10	Vertical
6	9755.6919	-57.80	-49.89	-13.00	36.89	Vertical



7.5. Test Band = WCDMA_V_TM1

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3392	-73.29	-64.25	-13.00	51.25	Horizontal
2	398.2823	-73.14	-67.49	-13.00	54.49	Horizontal
3	1589.5737	-60.02	-55.07	-13.00	42.07	Horizontal
4	2707.7135	-59.61	-47.98	-13.00	34.98	Horizontal
5	5180.3393	-54.12	-54.94	-13.00	41.94	Horizontal
6	9991.8331	-57.91	-51.10	-13.00	38.10	Horizontal



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7.6. Test Band = WCDMA_V_TM1

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	115.8557	-73.54	-65.21	-13.00	52.21	Vertical
2	577.2697	-73.35	-64.61	-13.00	51.61	Vertical
3	1692.3365	-59.50	-54.29	-13.00	41.29	Vertical
4	2711.2139	-59.55	-49.01	-13.00	36.01	Vertical
5	5295.8432	-54.50	-53.50	-13.00	40.50	Vertical
6	9782.0594	-57.73	-50.15	-13.00	37.15	Vertical

Remark:

- 1 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
Band5	4132	VL	NT	1.12	0.001355	±2.5	PASS
Band5	4132	VN	NT	0.79	0.000956	±2.5	PASS
Band5	4132	VH	NT	1.28	0.001549	±2.5	PASS
Band5	4182	VL	NT	-0.57	-0.000681	±2.5	PASS
Band5	4182	VN	NT	-0.46	-0.000550	±2.5	PASS
Band5	4182	VH	NT	-0.53	-0.000634	±2.5	PASS
Band5	4233	VL	NT	-3.22	-0.003803	±2.5	PASS
Band5	4233	VN	NT	-3.19	-0.003768	±2.5	PASS
Band5	4233	VH	NT	-3.25	-0.003839	±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
Band5	4132	NV	-30	1.47	0.001779	±2.5	PASS
Band5	4132	NV	-20	1.53	0.001851	±2.5	PASS
Band5	4132	NV	-10	1.57	0.001900	±2.5	PASS
Band5	4132	NV	0	1.66	0.002009	±2.5	PASS
Band5	4132	NV	10	1.78	0.002154	±2.5	PASS
Band5	4132	NV	20	1.84	0.002227	±2.5	PASS
Band5	4132	NV	30	1.98	0.002396	±2.5	PASS
Band5	4132	NV	40	1.82	0.002202	±2.5	PASS
Band5	4132	NV	50	1.90	0.002299	±2.5	PASS
Band5	4182	NV	-30	-0.41	-0.000490	±2.5	PASS
Band5	4182	NV	-20	-0.55	-0.000658	±2.5	PASS
Band5	4182	NV	-10	-0.40	-0.000478	±2.5	PASS
Band5	4182	NV	0	-0.61	-0.000729	±2.5	PASS
Band5	4182	NV	10	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	20	-0.51	-0.000610	±2.5	PASS
Band5	4182	NV	30	-0.33	-0.000395	±2.5	PASS
Band5	4182	NV	40	-0.43	-0.000514	±2.5	PASS
Band5	4182	NV	50	-0.43	-0.000514	±2.5	PASS
Band5	4233	NV	-30	-3.30	-0.003898	±2.5	PASS
Band5	4233	NV	-20	-3.38	-0.003992	±2.5	PASS
Band5	4233	NV	-10	-3.44	-0.004063	±2.5	PASS
Band5	4233	NV	0	-3.28	-0.003874	±2.5	PASS
Band5	4233	NV	10	-3.32	-0.003922	±2.5	PASS
Band5	4233	NV	20	-3.30	-0.003898	±2.5	PASS
Band5	4233	NV	30	-3.38	-0.003992	±2.5	PASS
Band5	4233	NV	40	-3.57	-0.004217	±2.5	PASS
Band5	4233	NV	50	-3.45	-0.004075	±2.5	PASS

The End



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