

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	23.35	22.98	33.00	PASS
Band II	9400	23.47	23.10	33.00	PASS
Band II	9538	23.45	23.08	33.00	PASS
Band IV	1312	23.58	23.85	30.00	PASS
Band IV	1413	23.64	23.91	30.00	PASS
Band IV	1513	23.56	23.83	30.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	4132	23.44	18.89	38.45	PASS
Band V	4182	23.49	18.94	38.45	PASS
Band V	4233	23.47	18.92	38.45	PASS

Remark:

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

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

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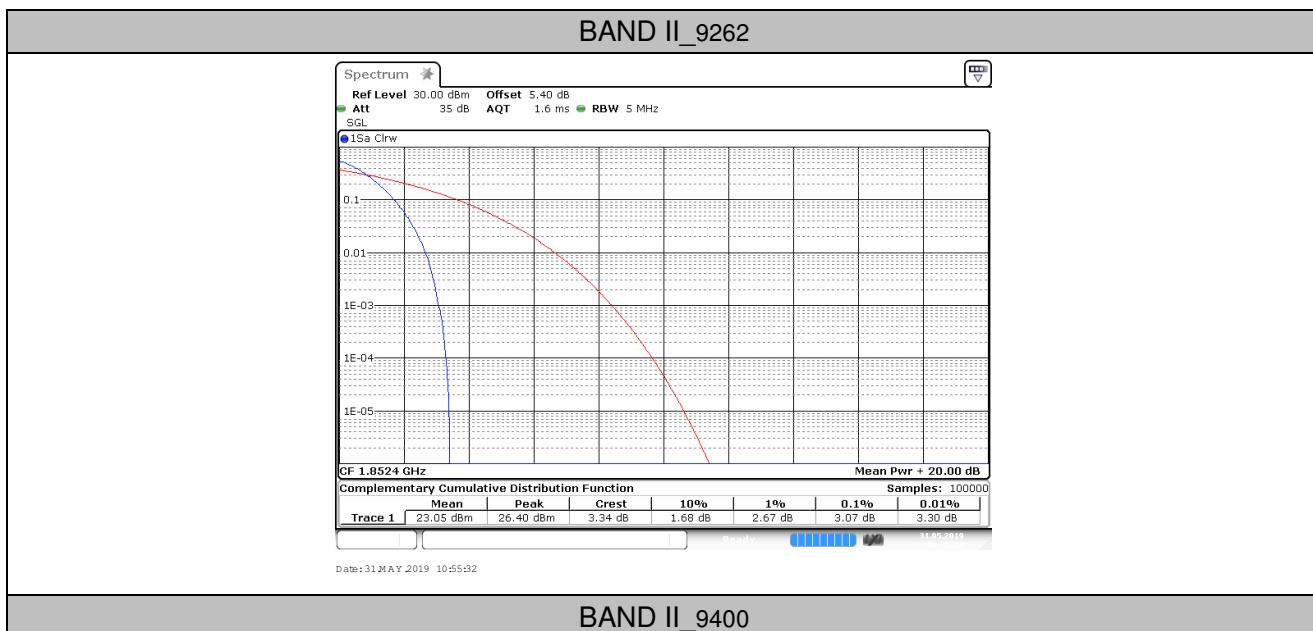
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.07	13	PASS
Band II	9400	3.10	13	PASS
Band II	9538	3.01	13	PASS
Band IV	1312	3.25	13	PASS
Band IV	1413	3.28	13	PASS
Band IV	1513	3.19	13	PASS
Band V	4132	2.99	13	PASS
Band V	4182	2.99	13	PASS
Band V	4233	3.25	13	PASS

2.2. Test Plots

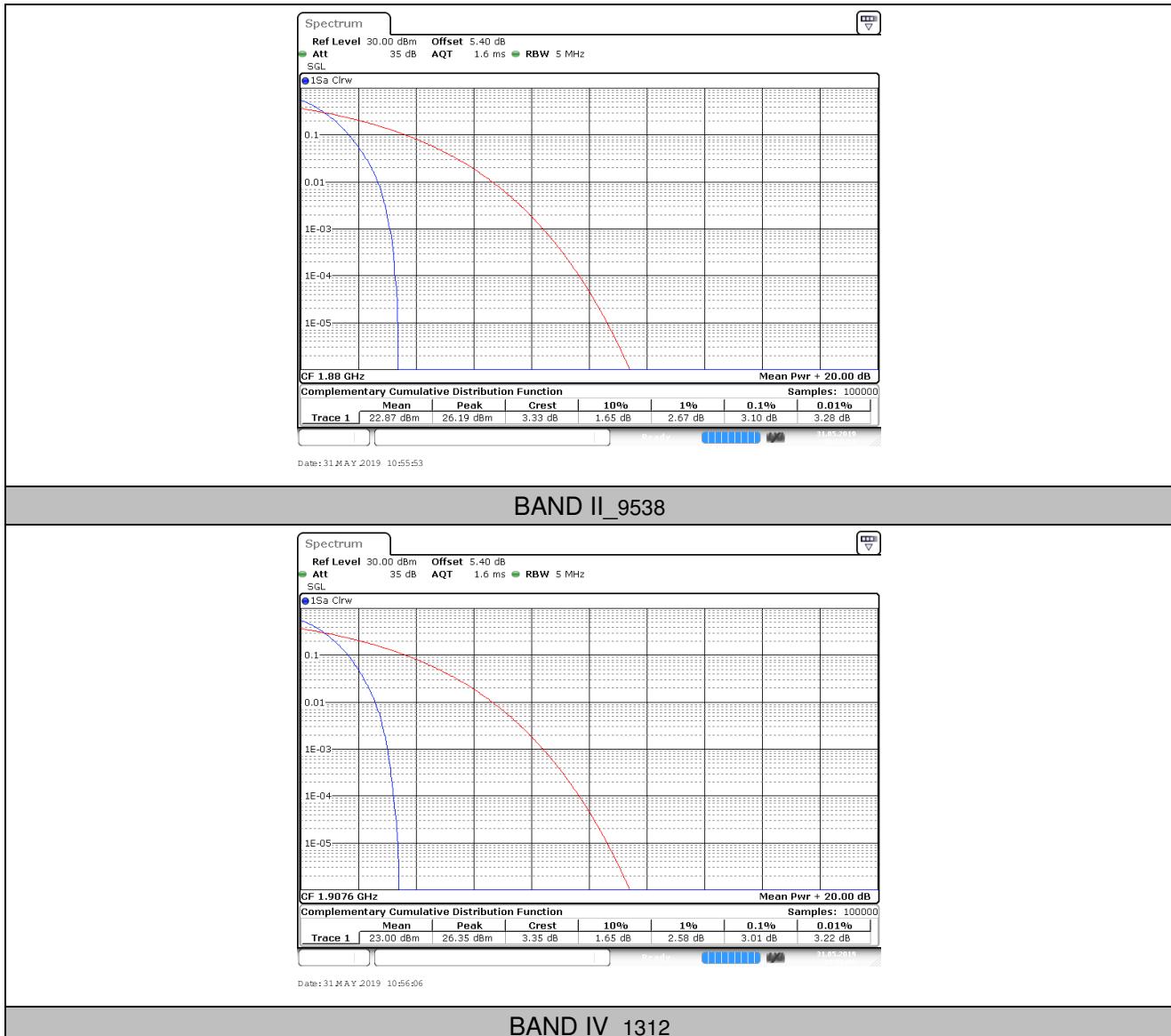


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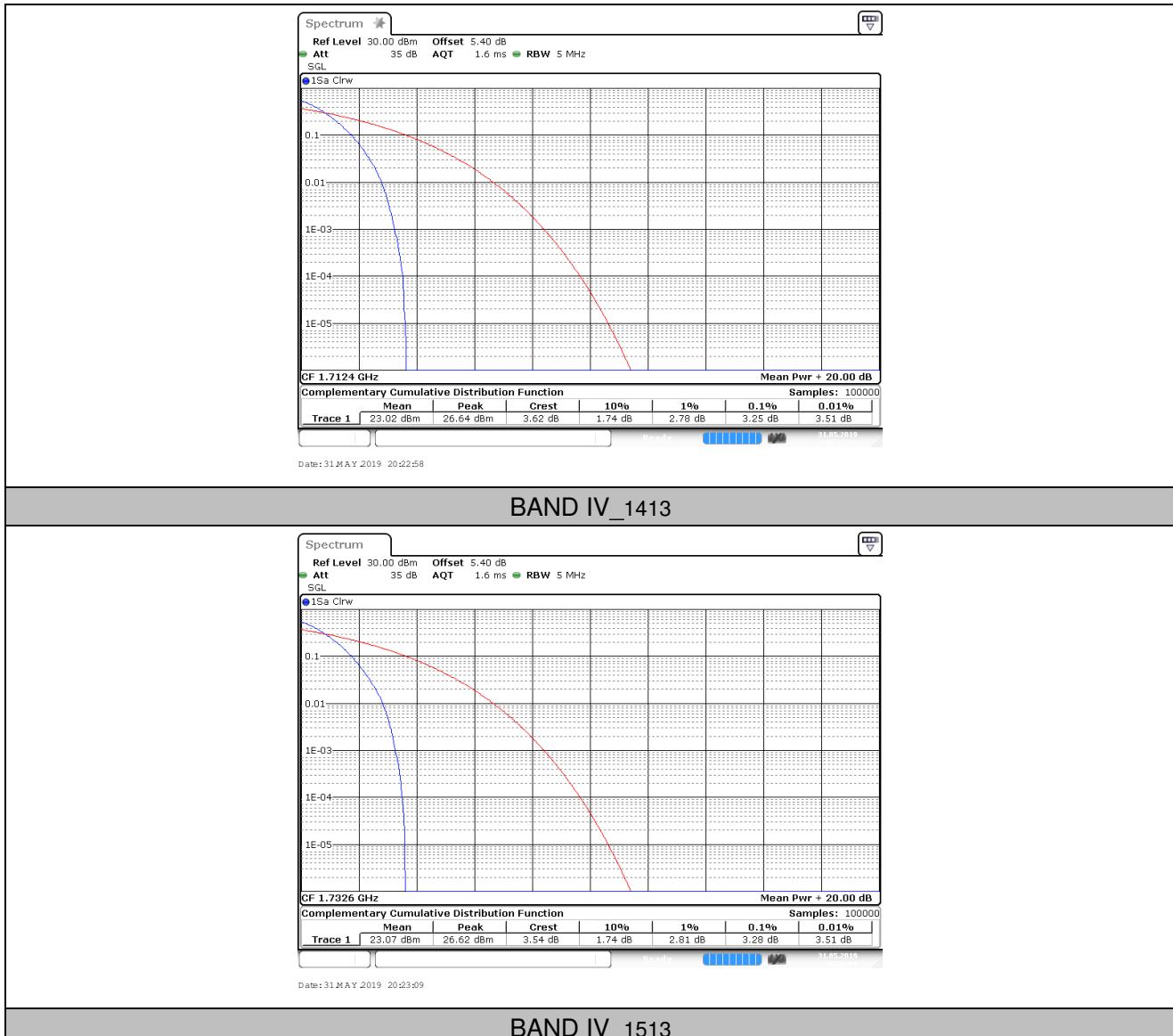


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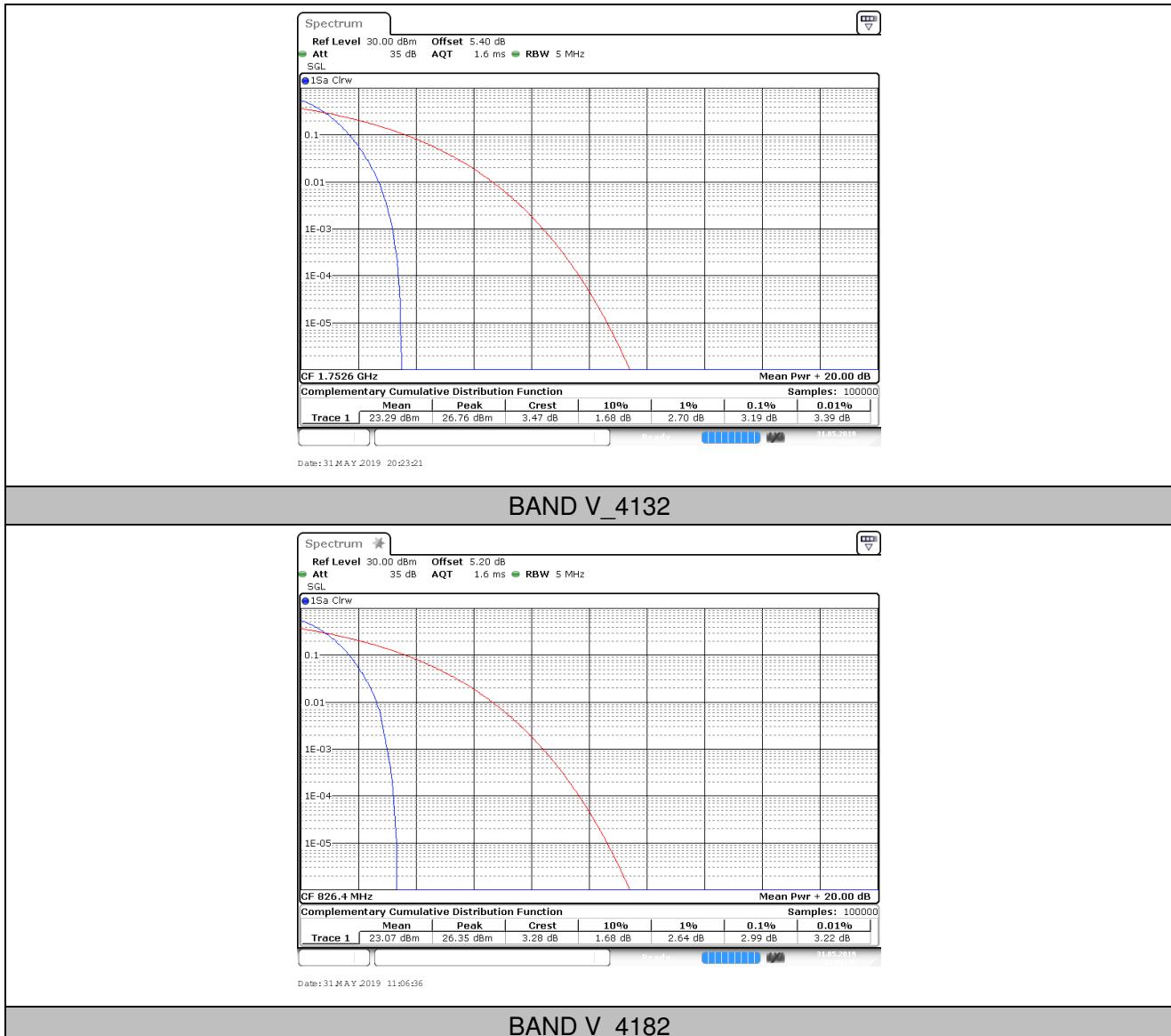


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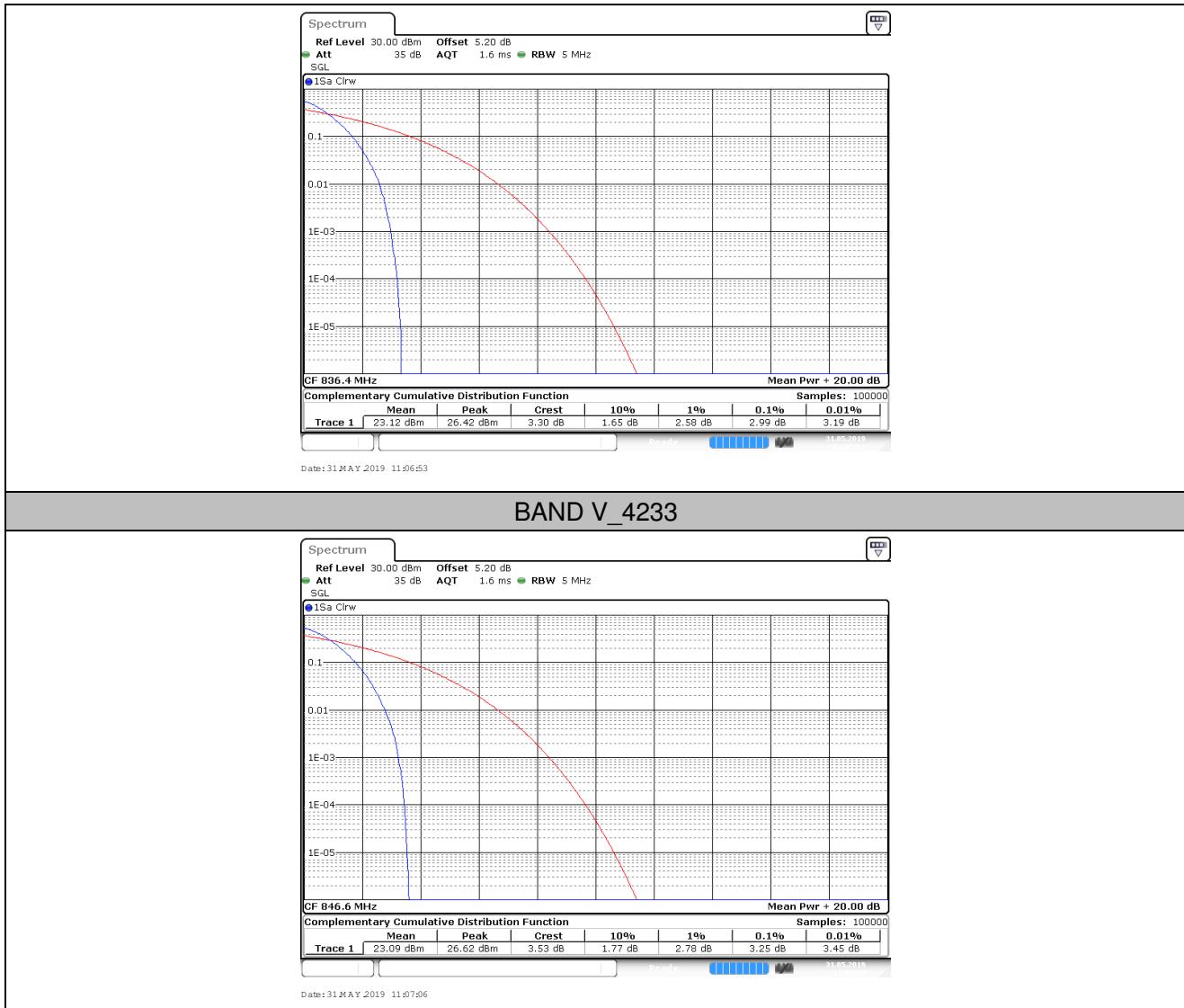


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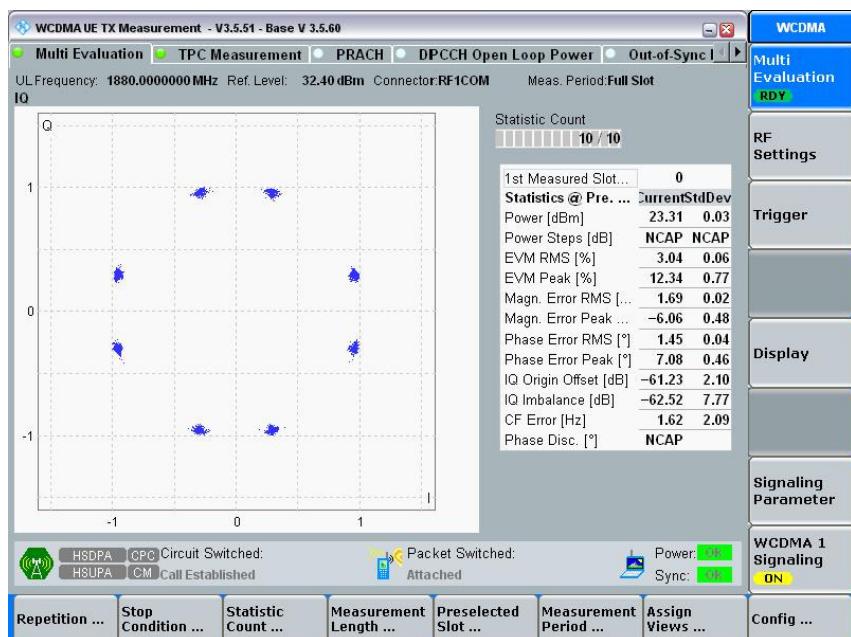
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3. Modulation Characteristics

3.1. Test BAND = WCDMA BAND II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



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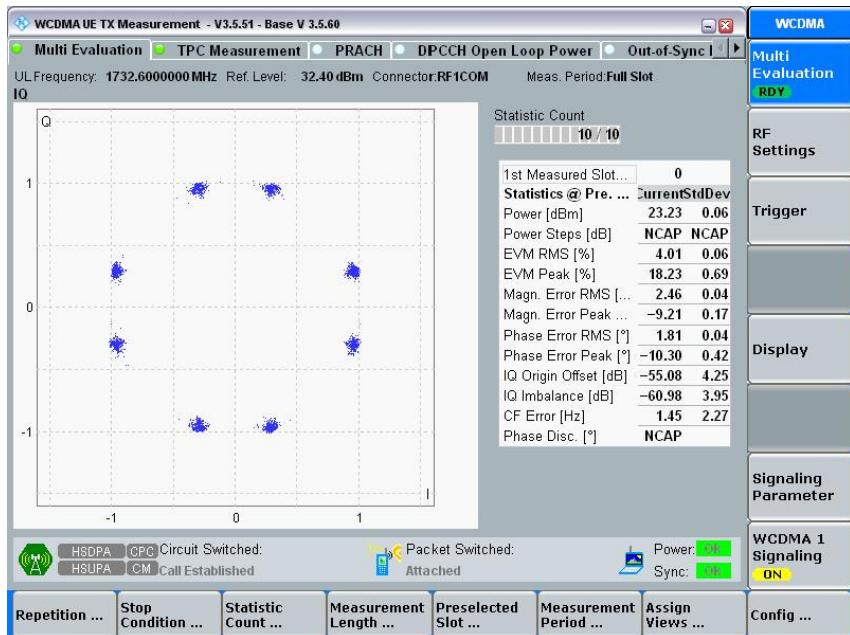
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3.2. Test BAND = WCDMA BAND IV

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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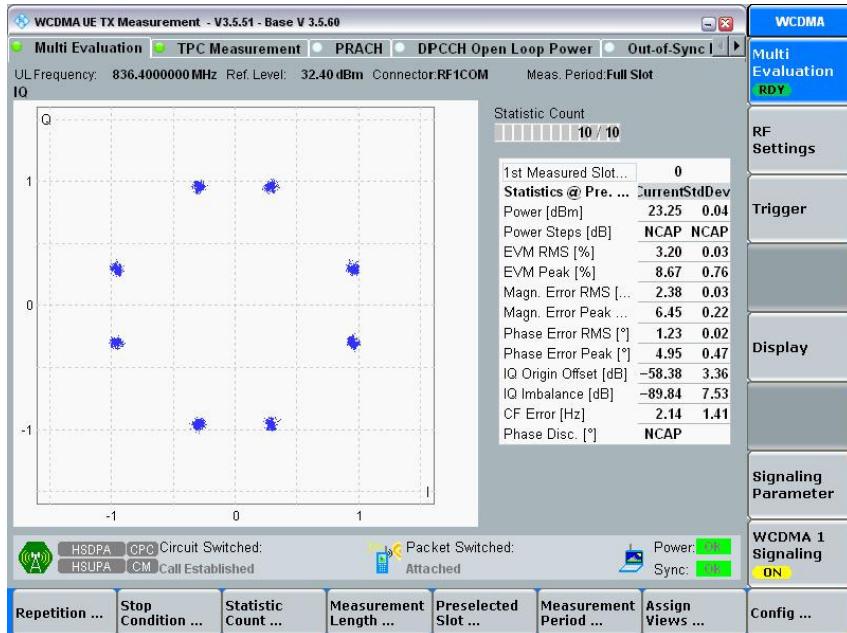
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3.3. Test BAND = WCDMA BAND V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



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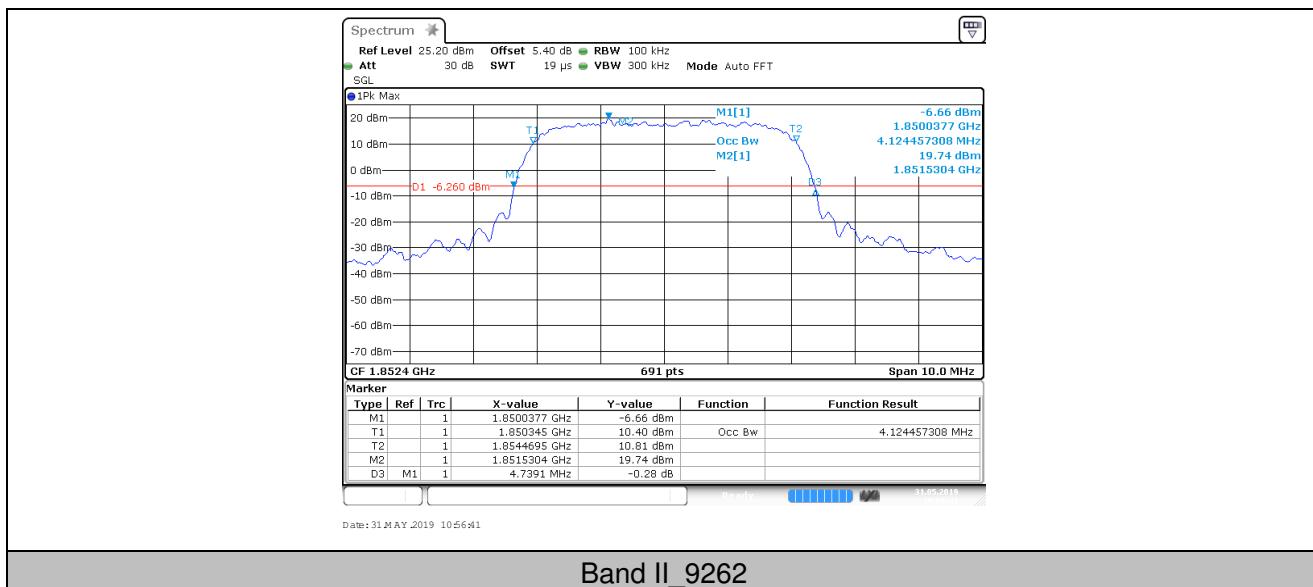
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

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

4.2. Test Plots



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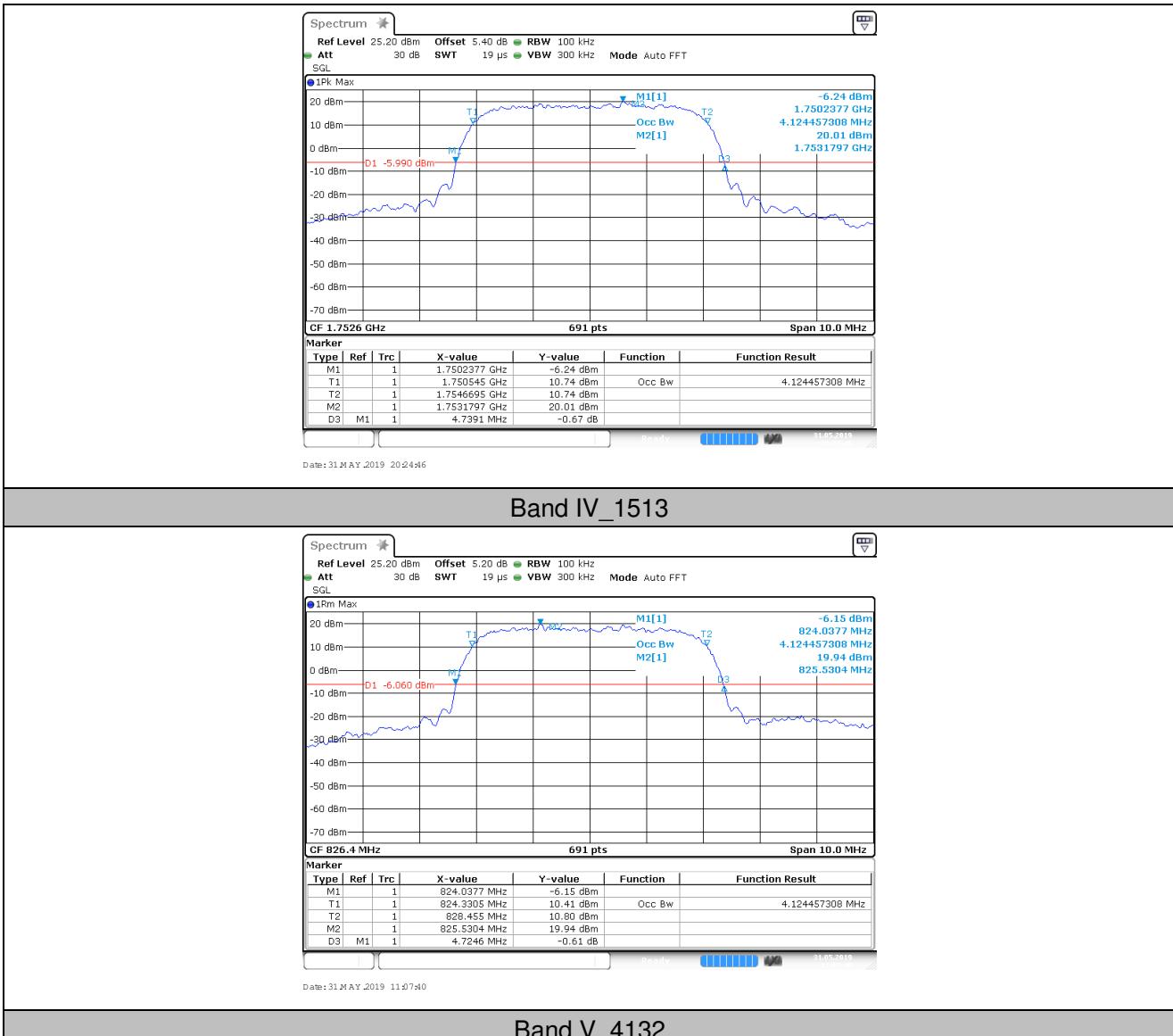


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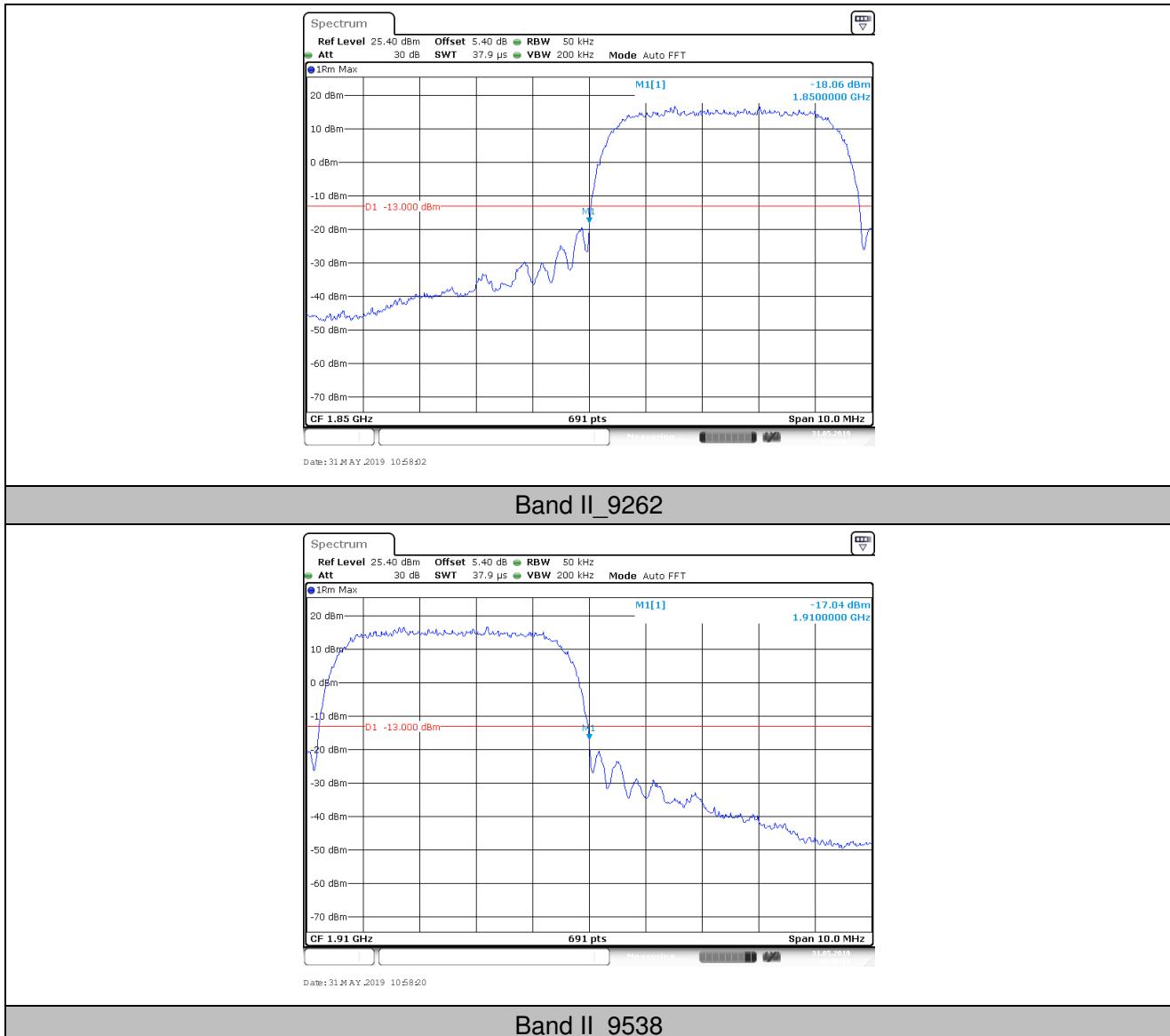
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5. Band Edge Compliance

5.1. Test Plots

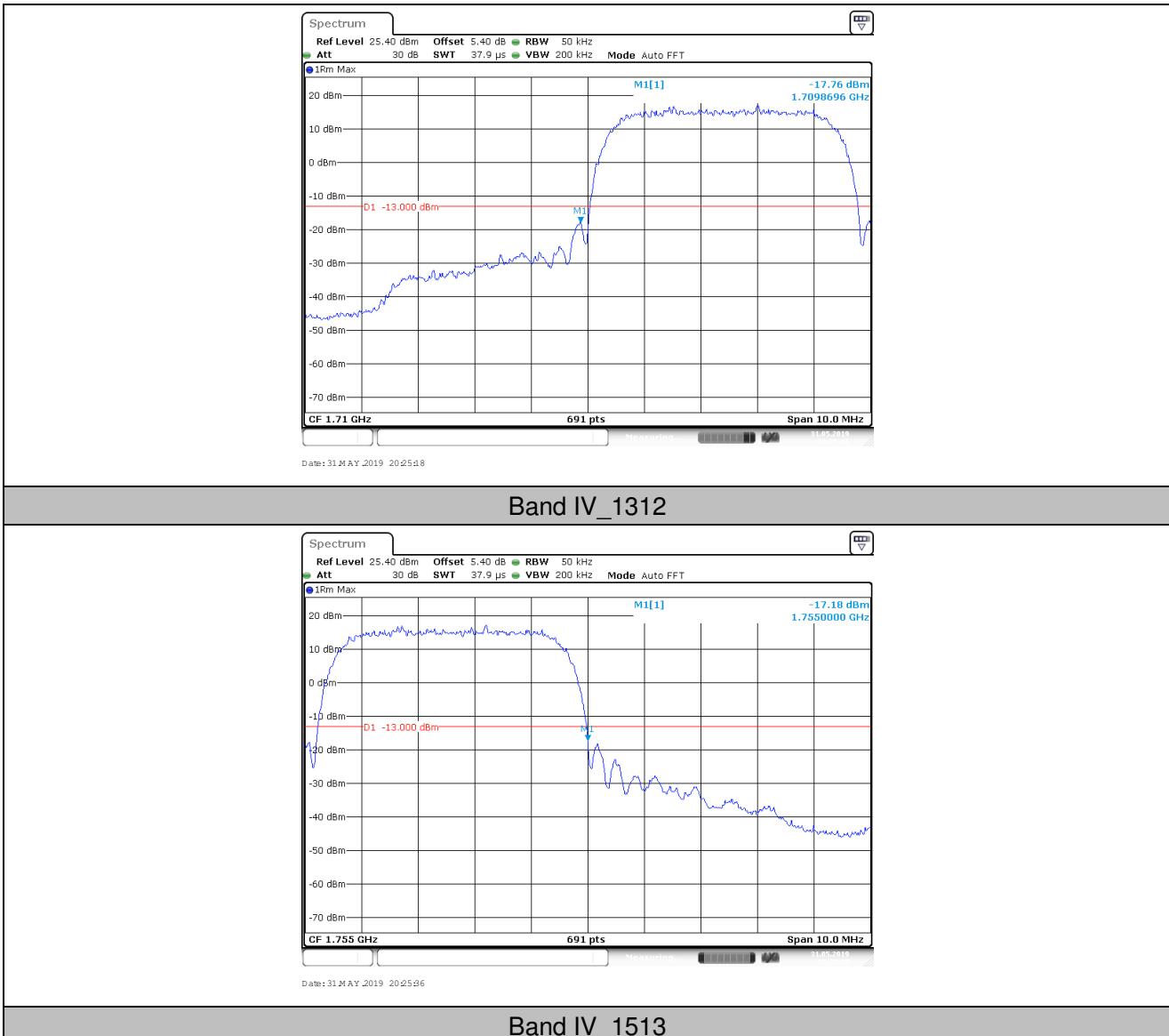


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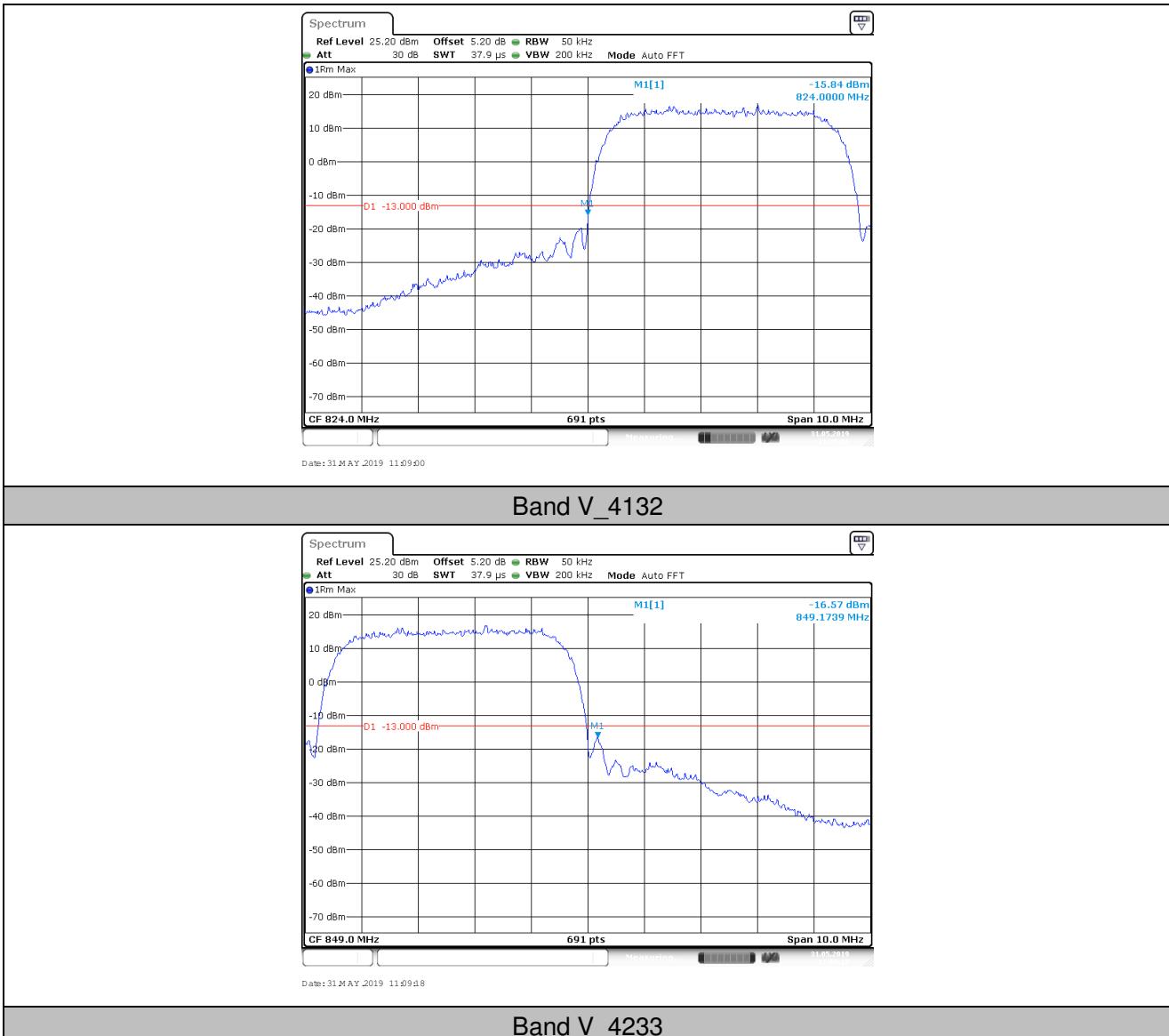


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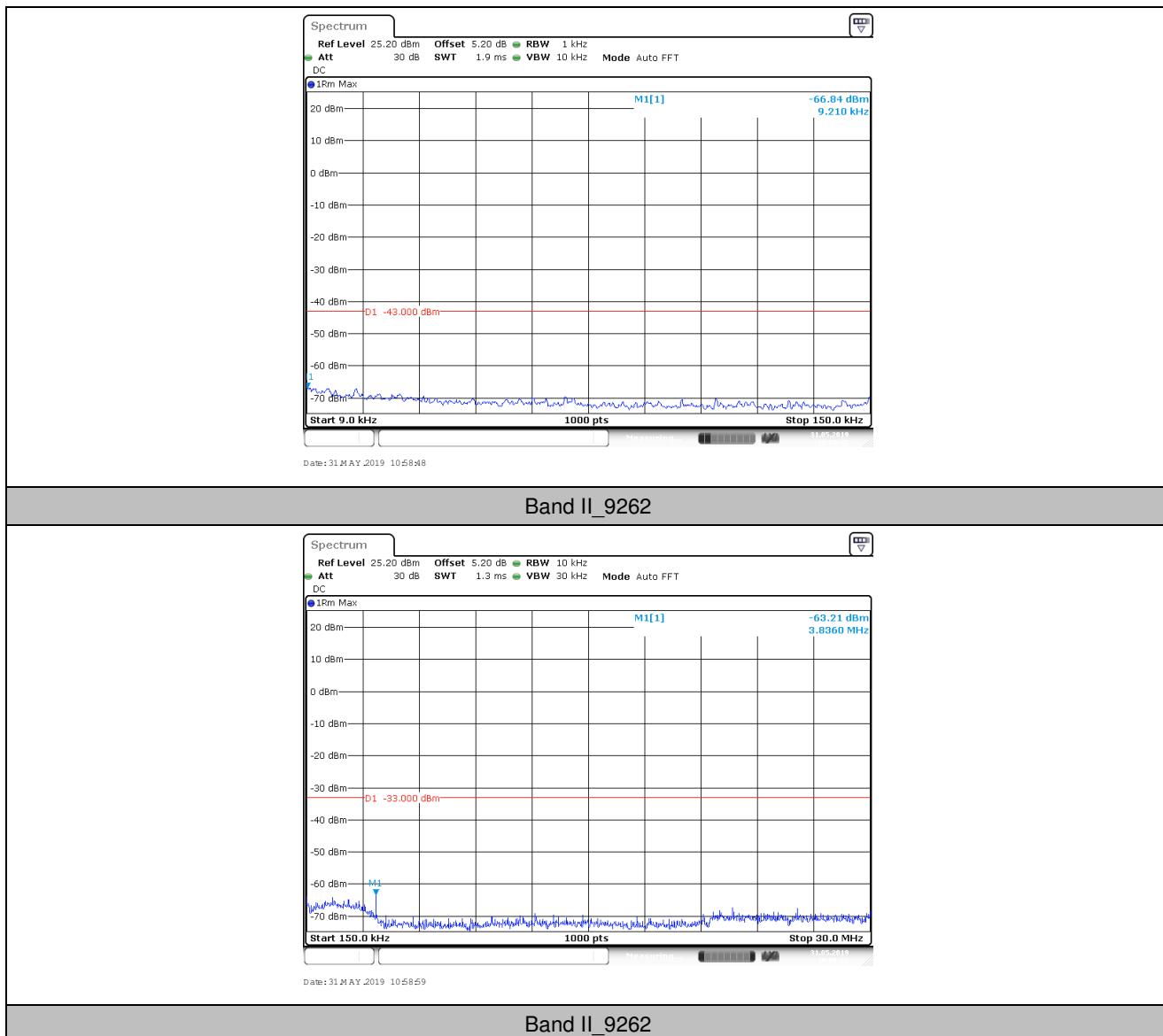
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " 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

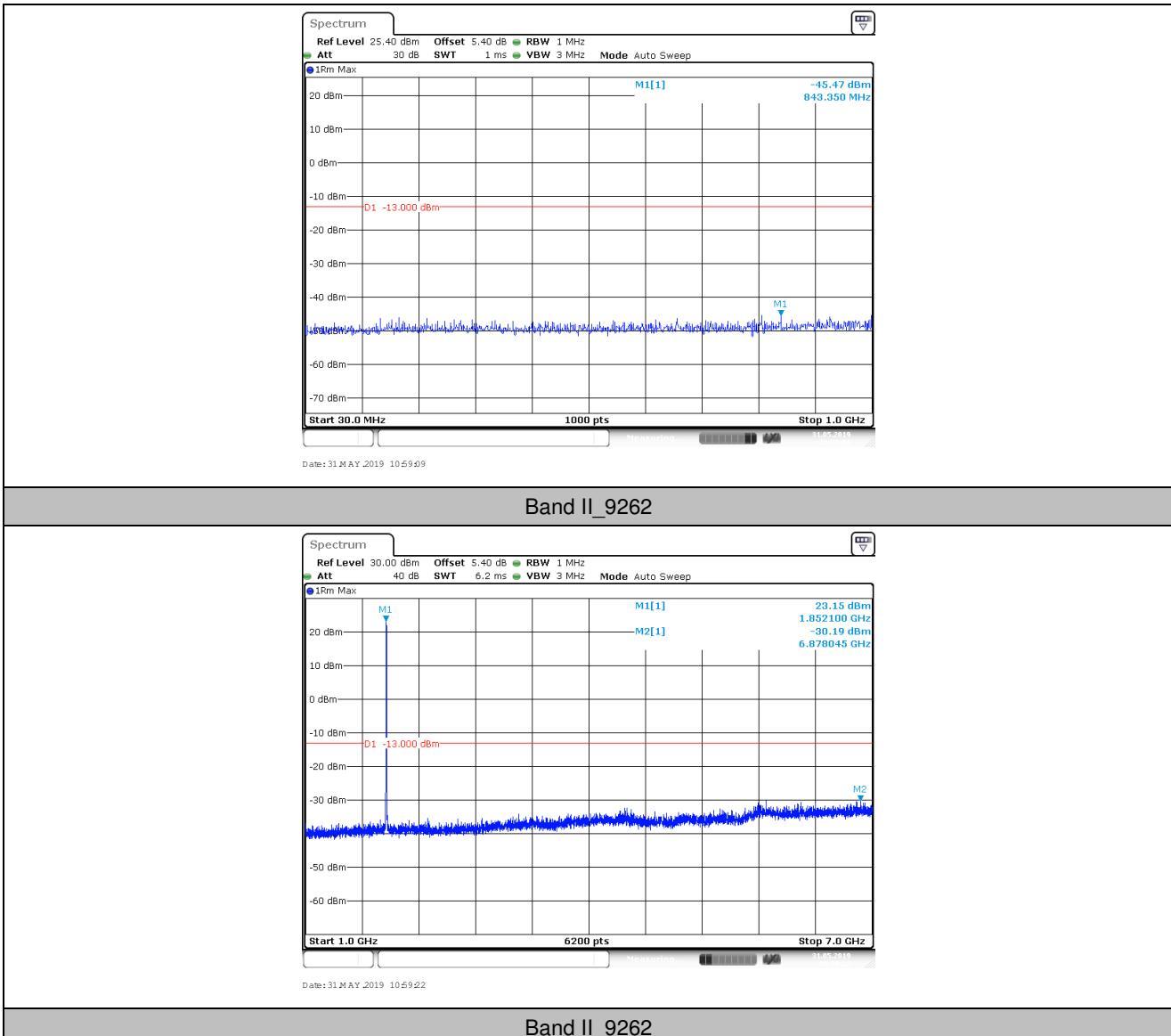


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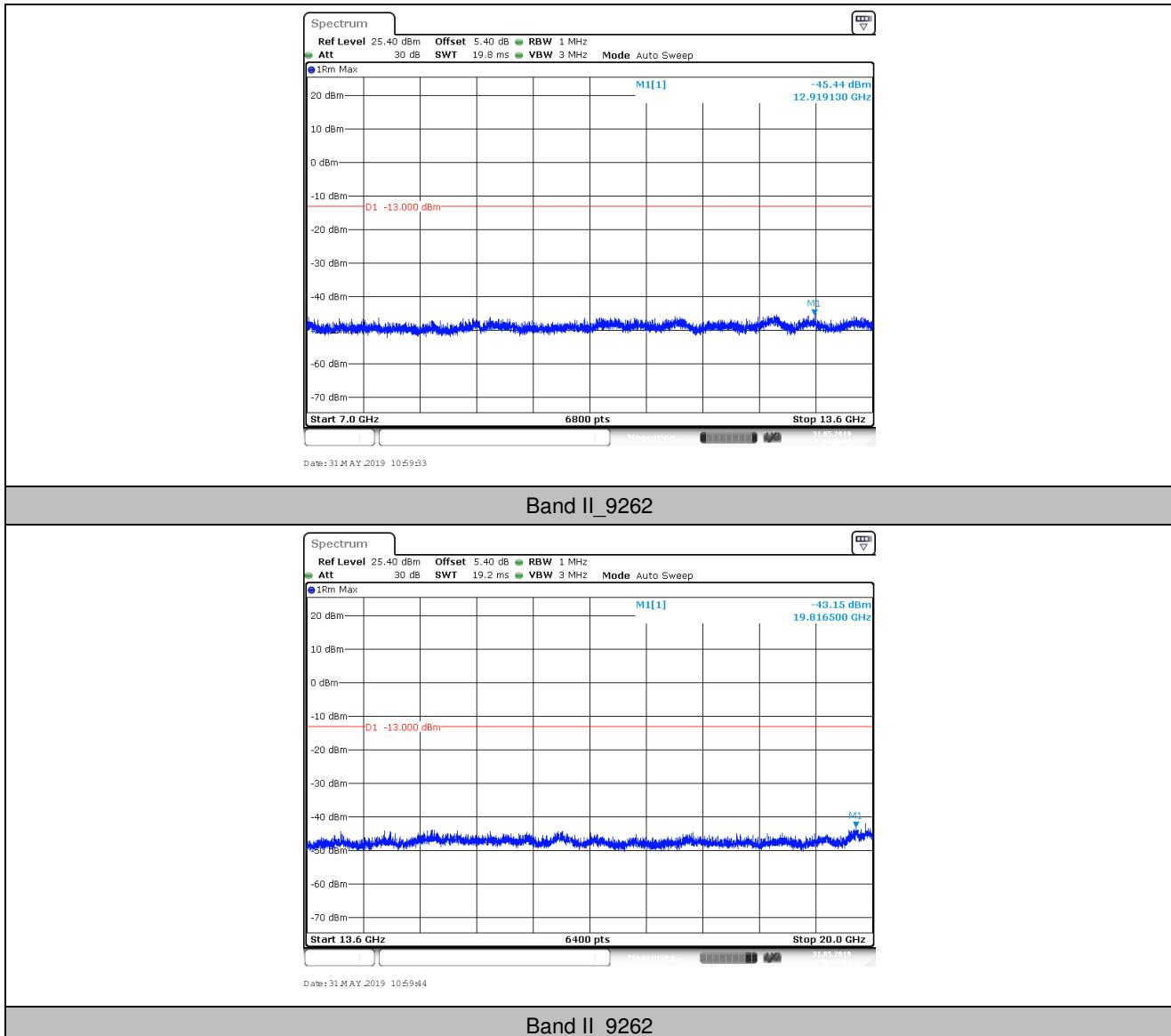


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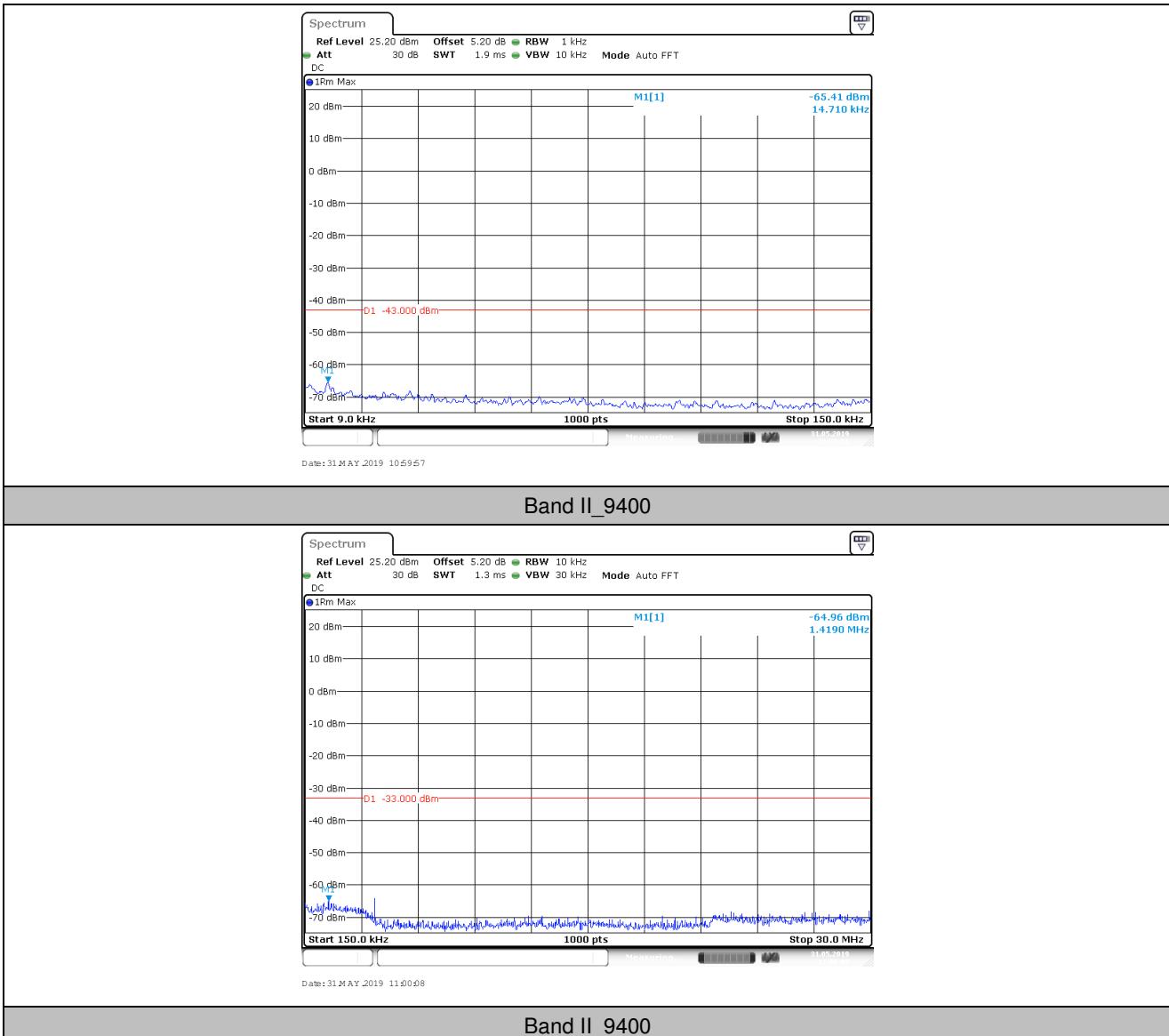


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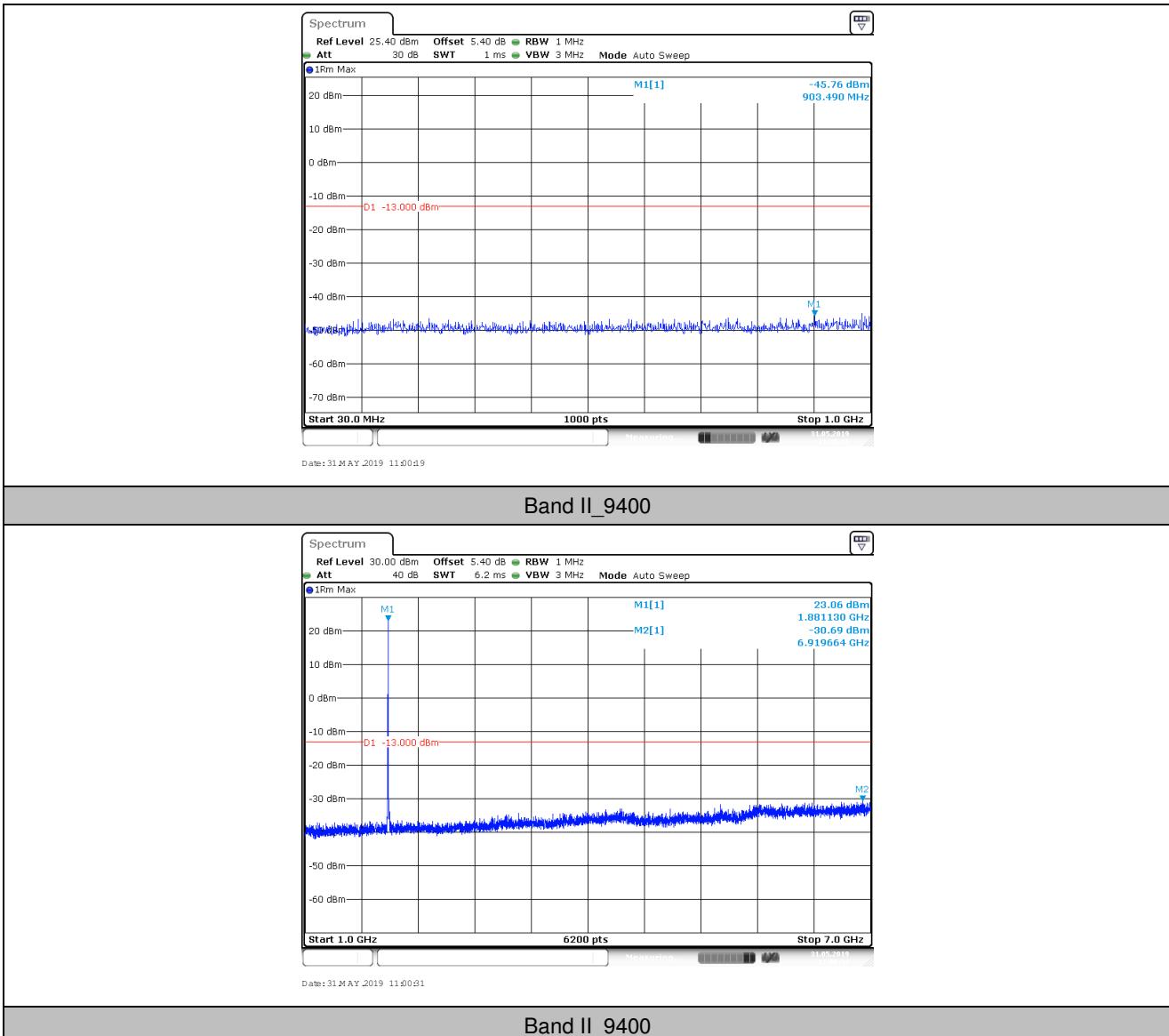
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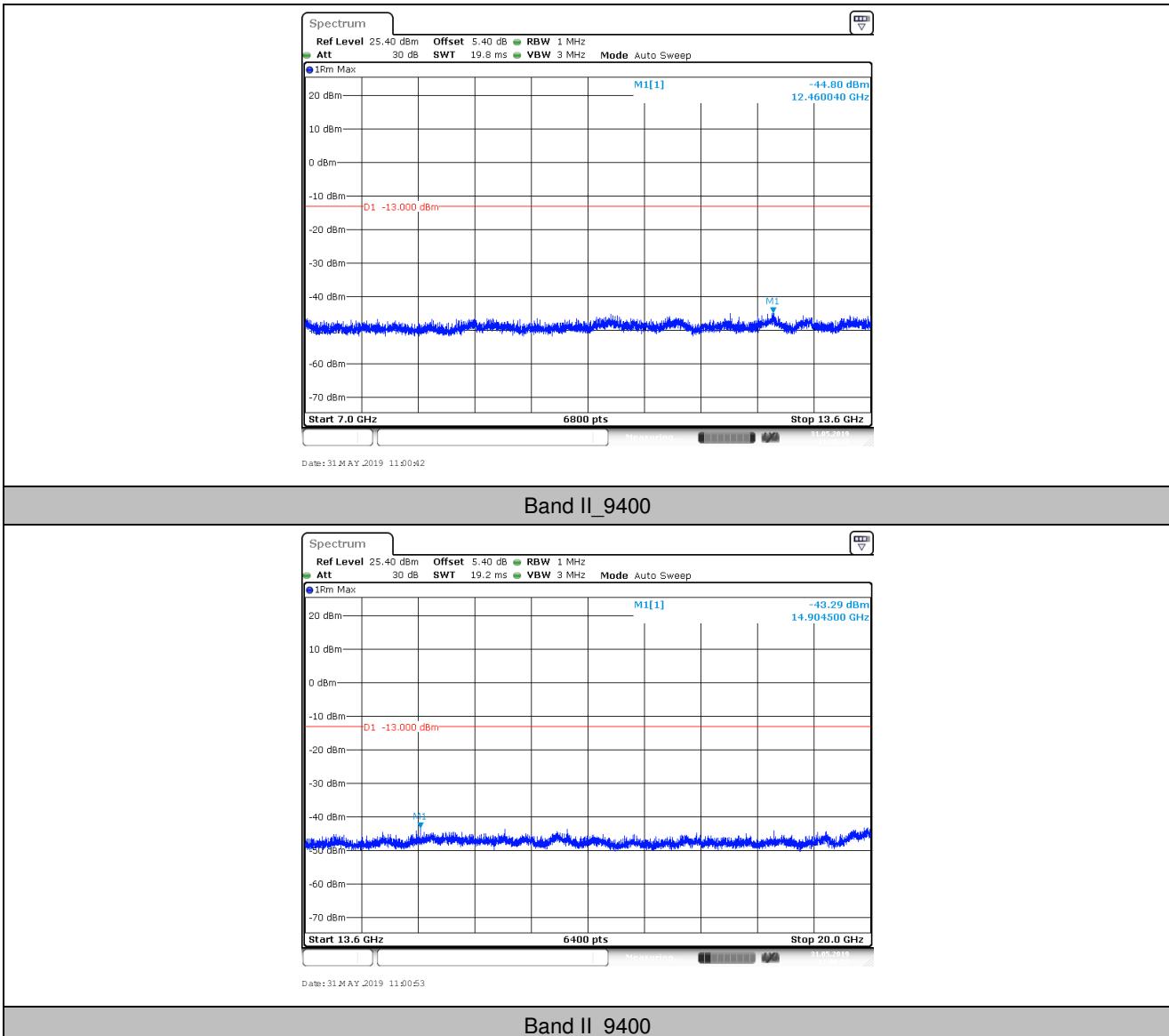


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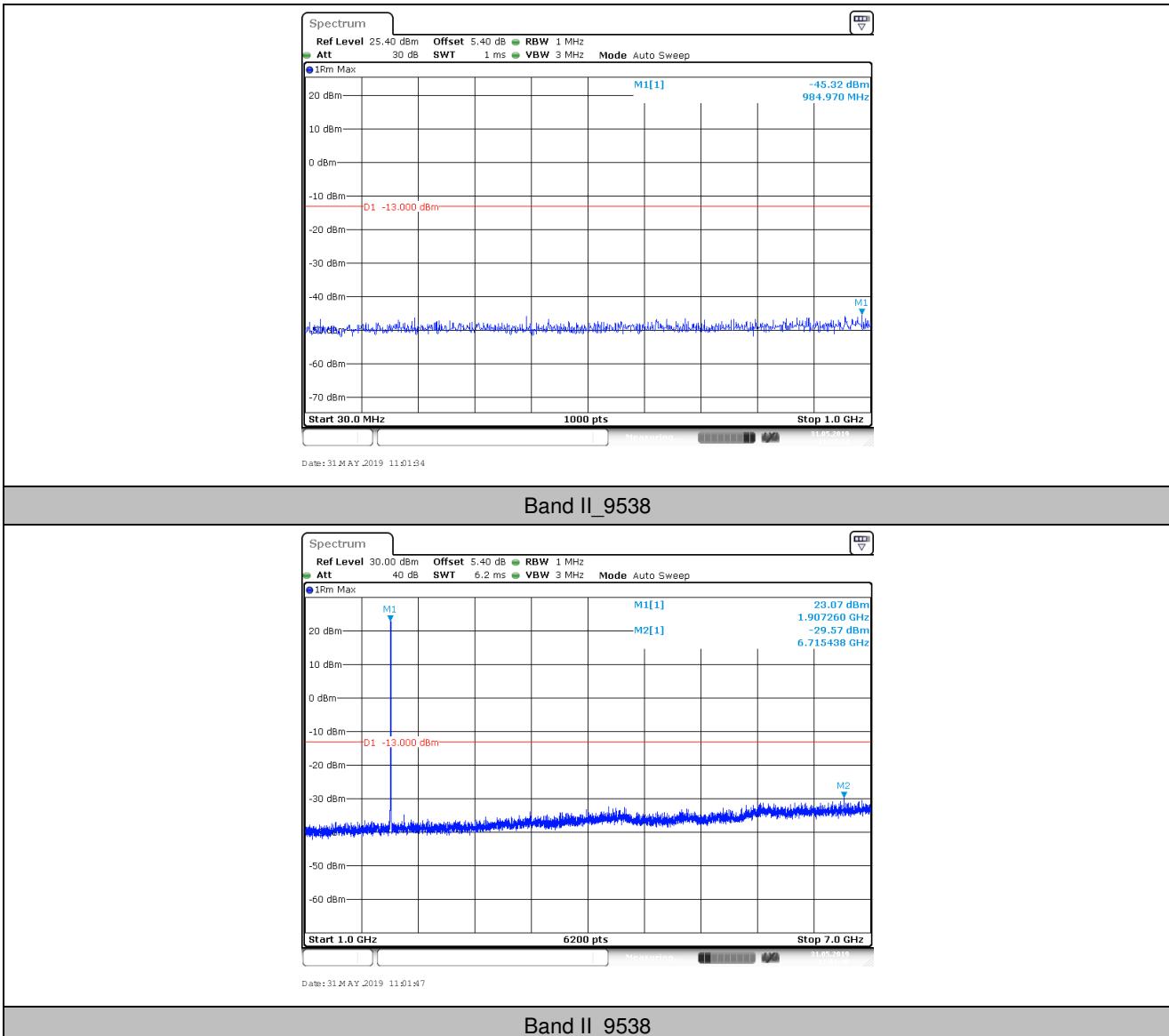
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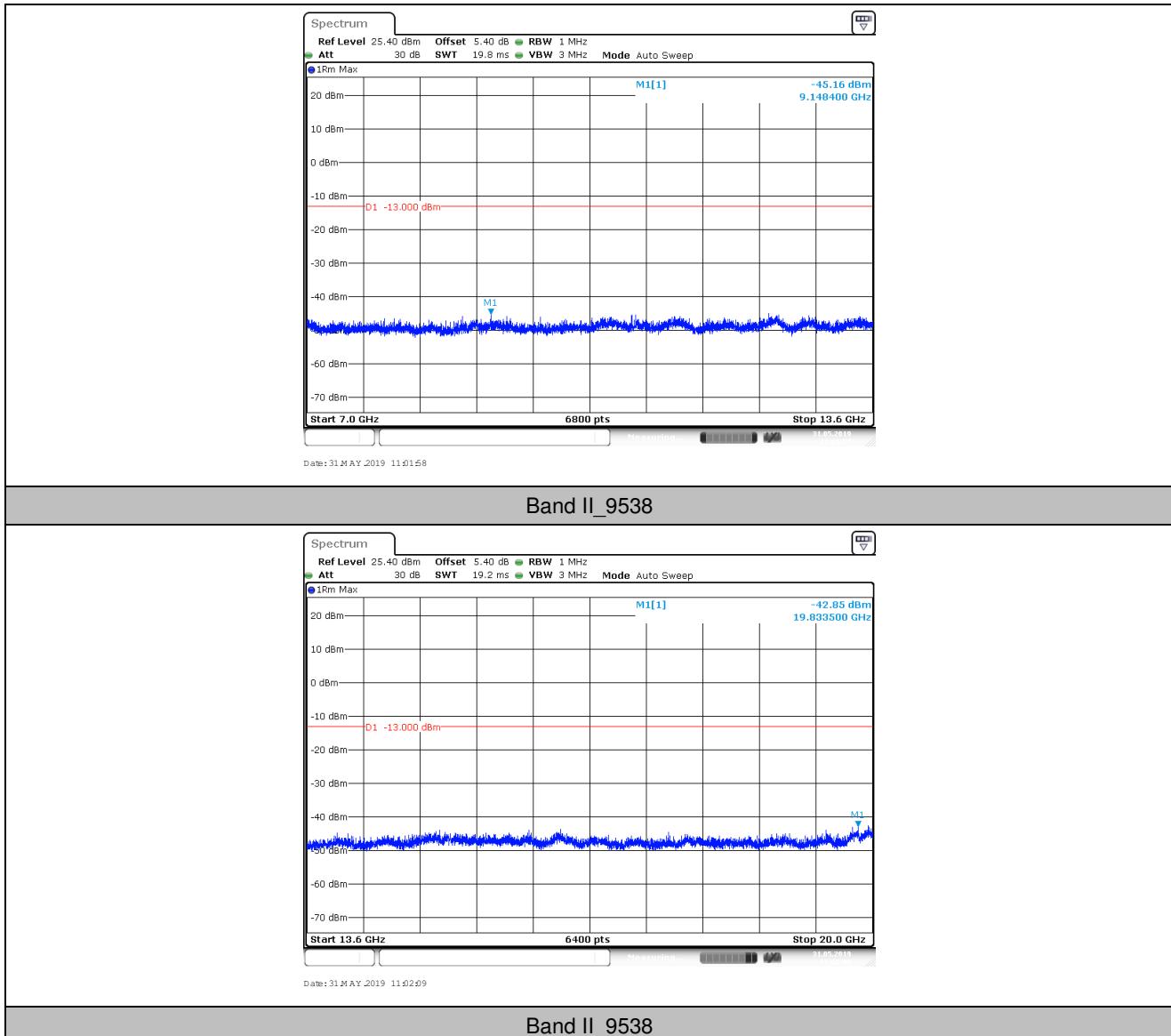


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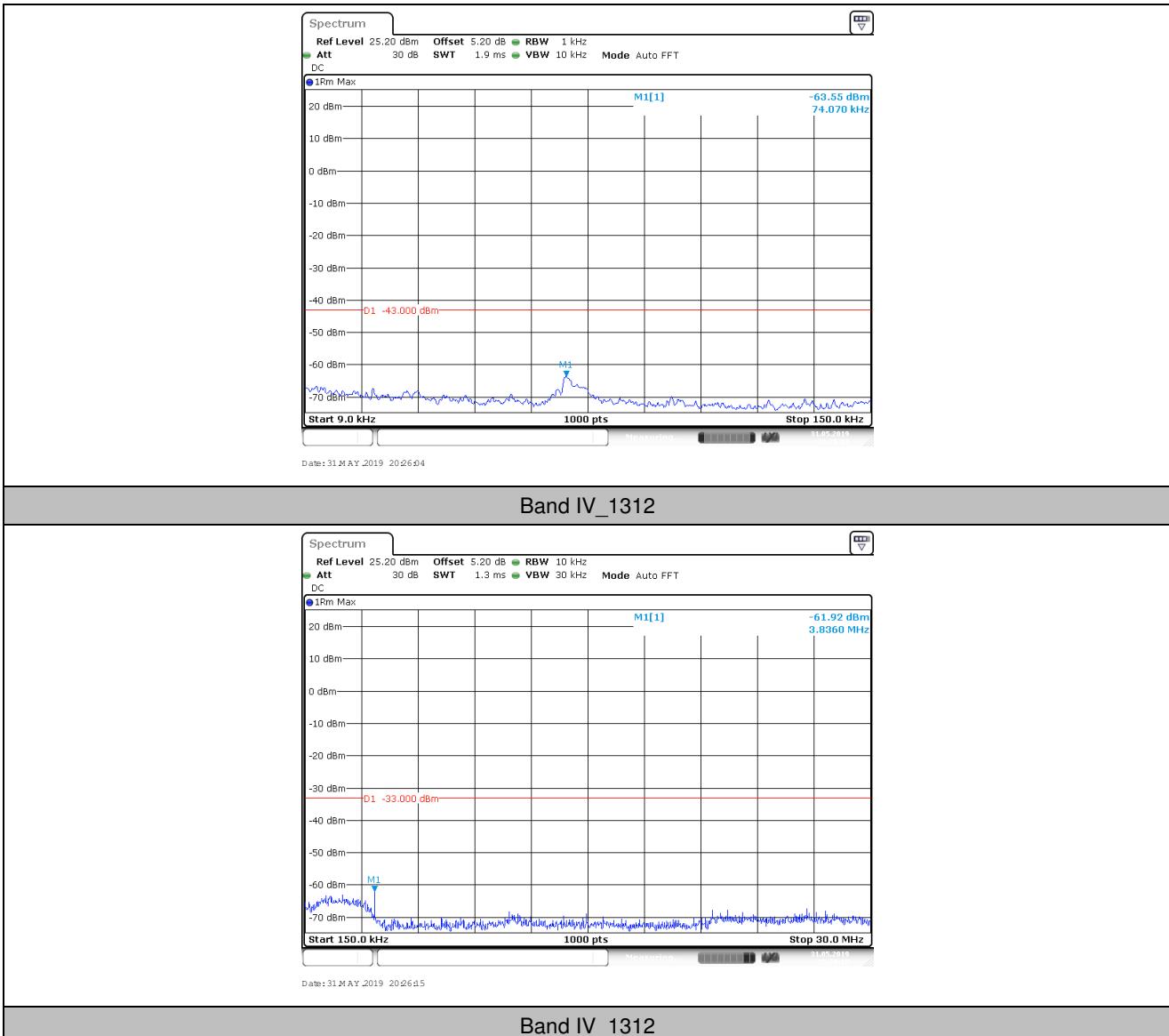


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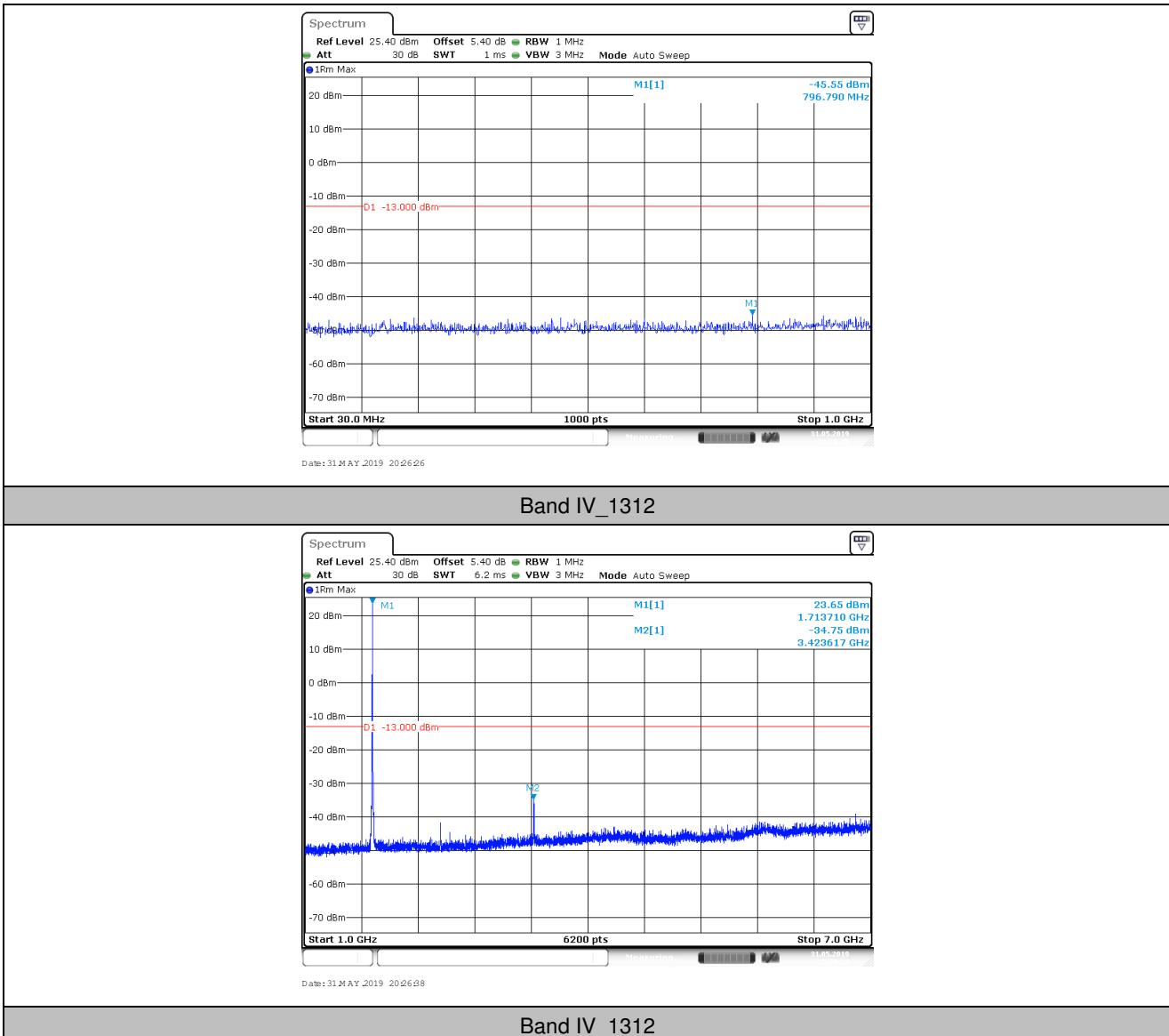


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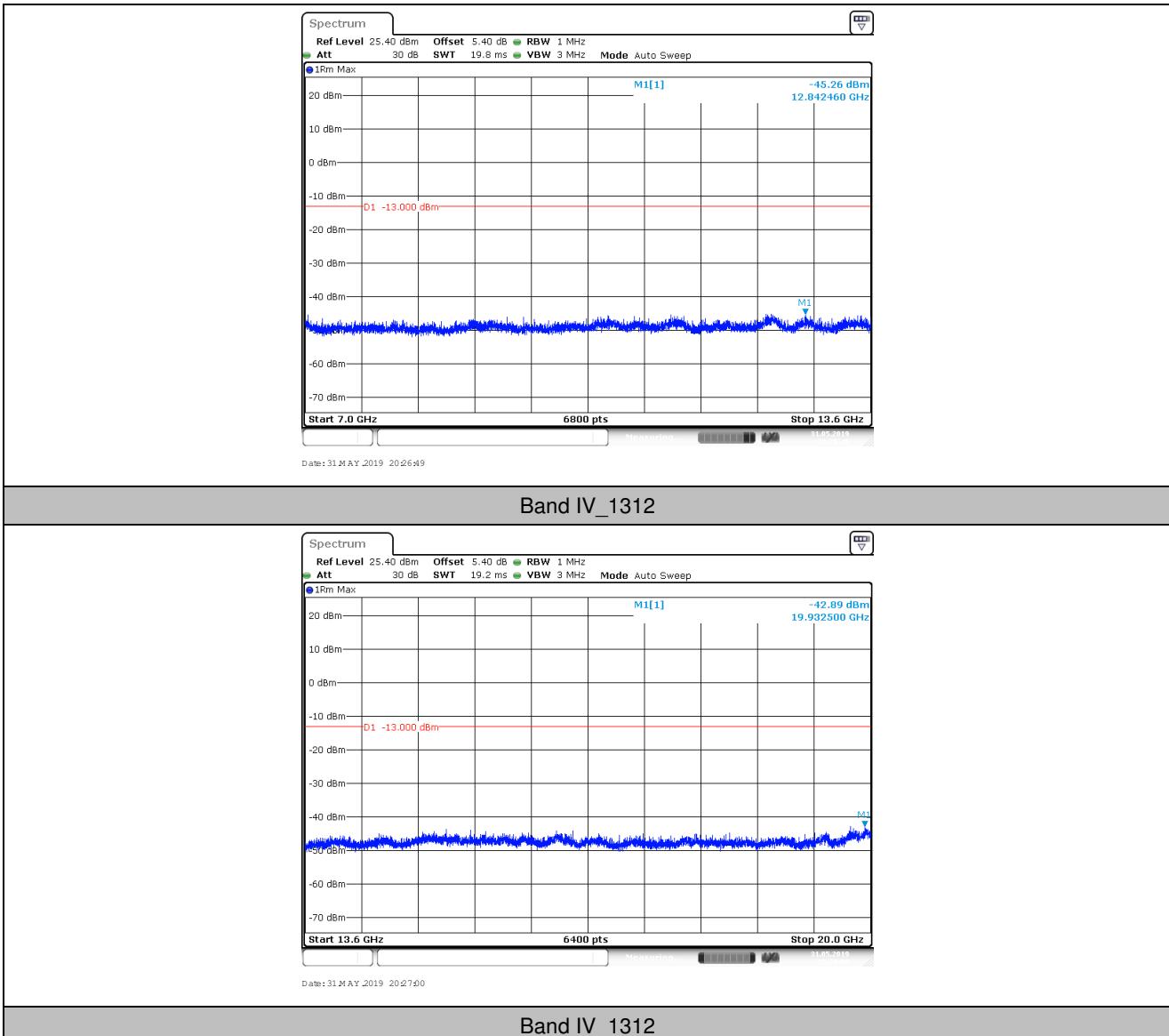


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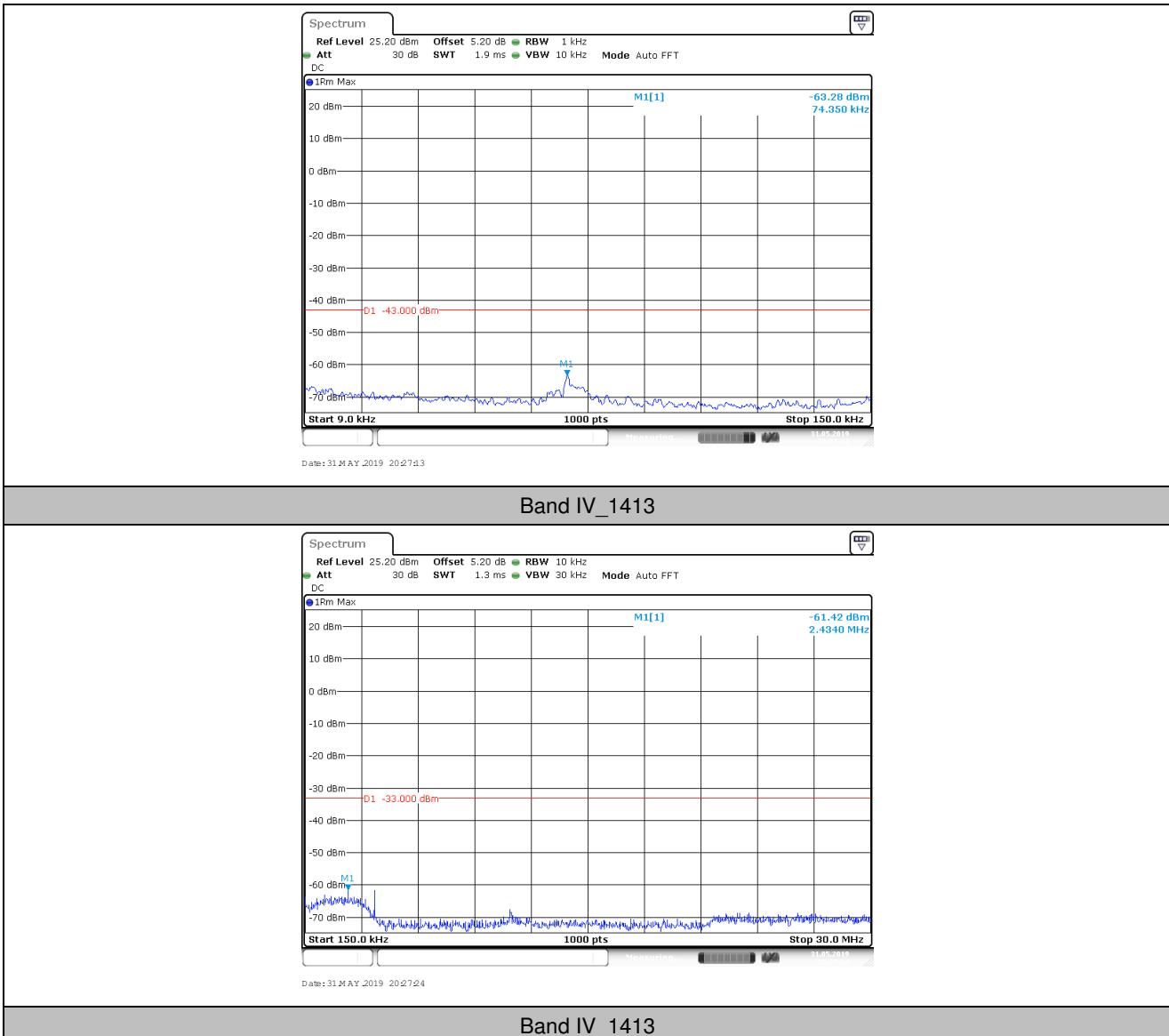


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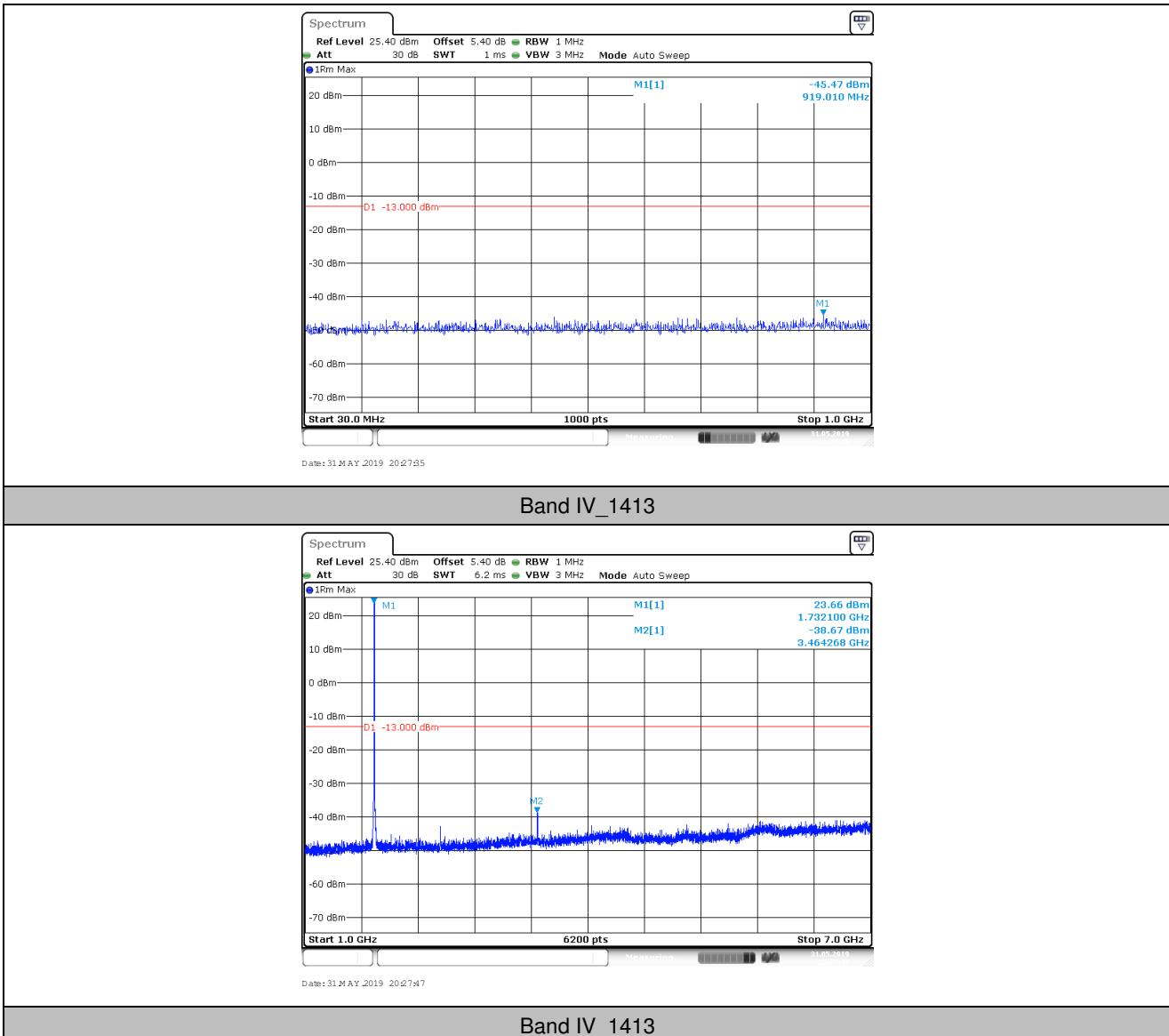
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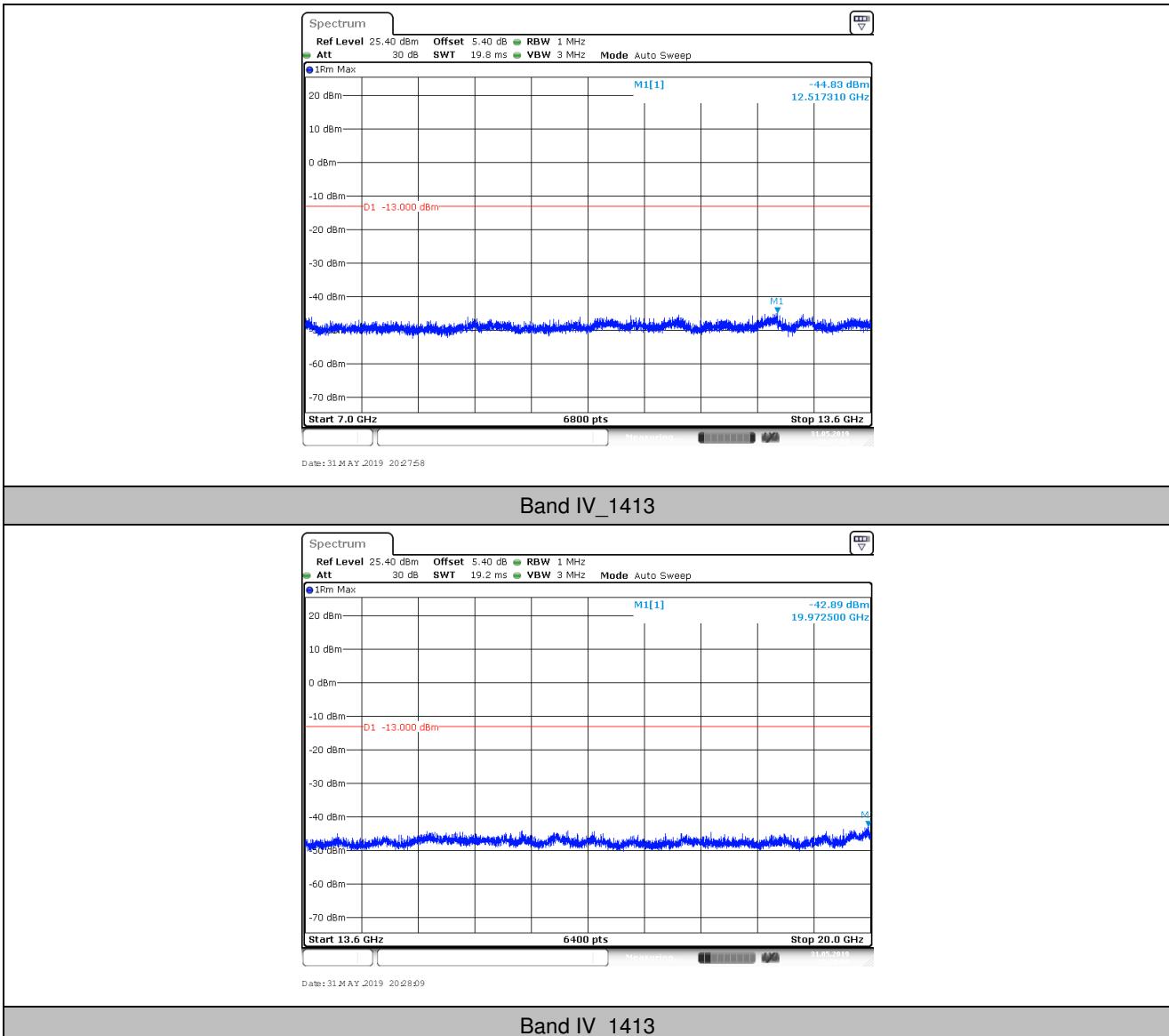


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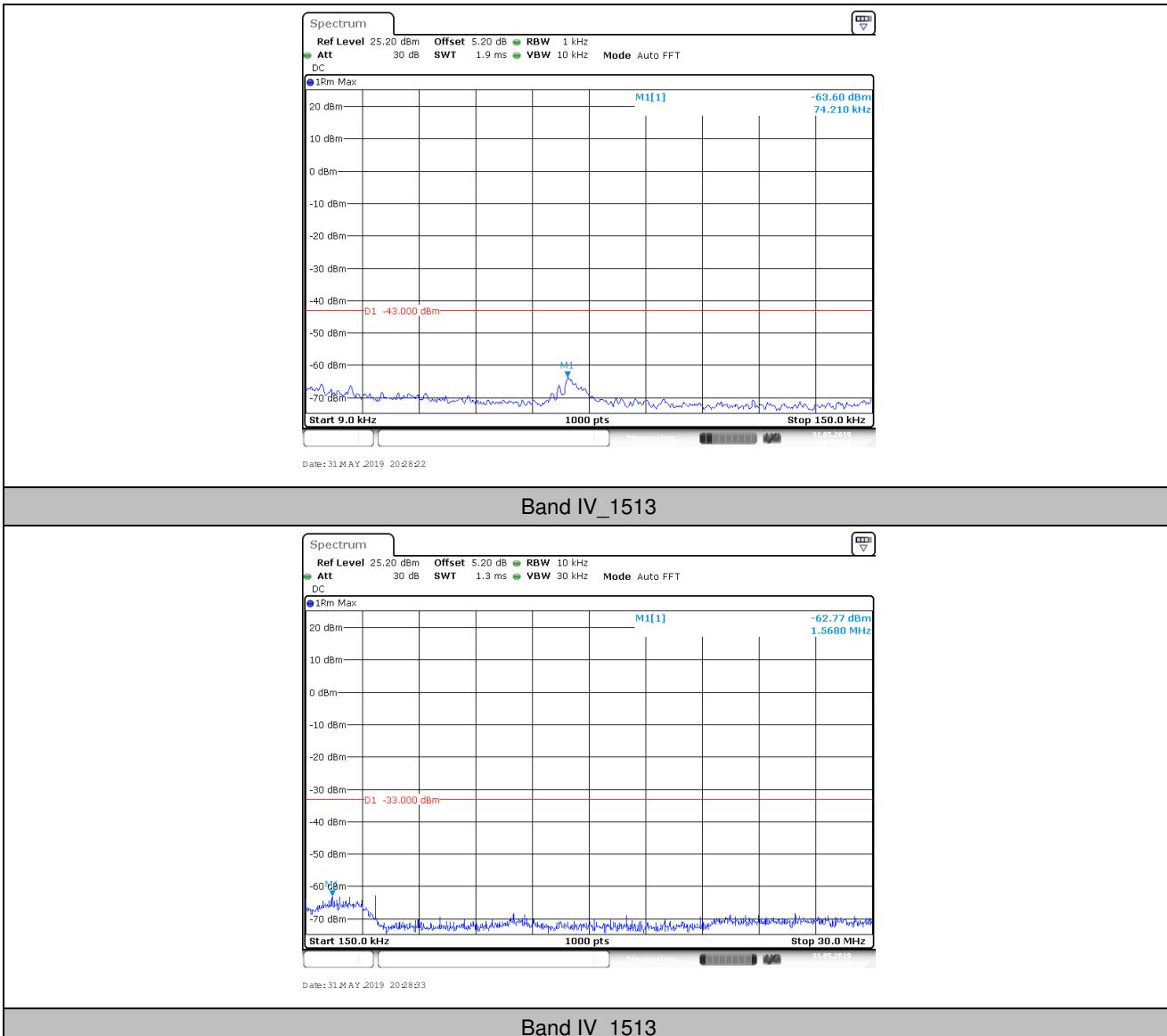


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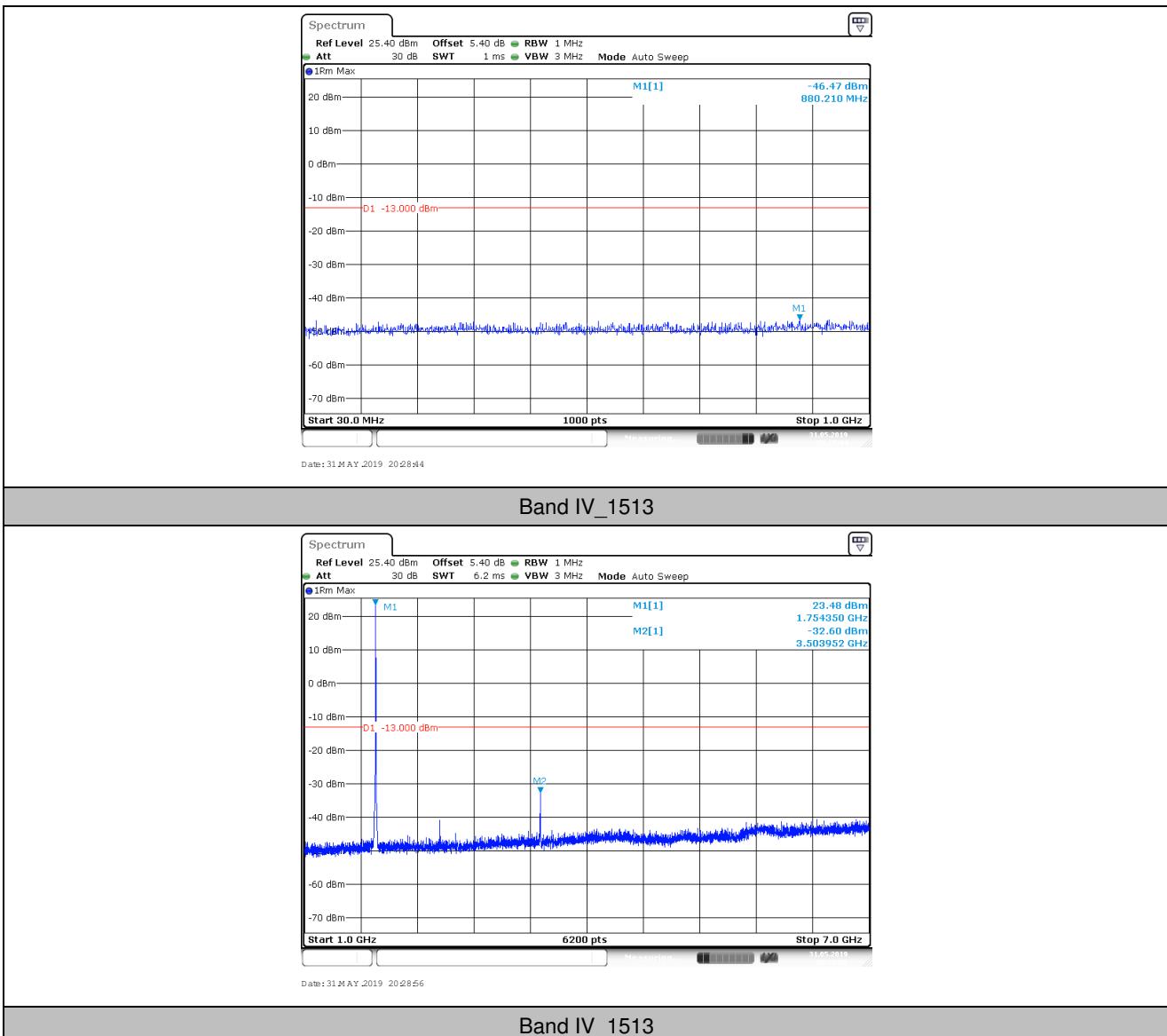
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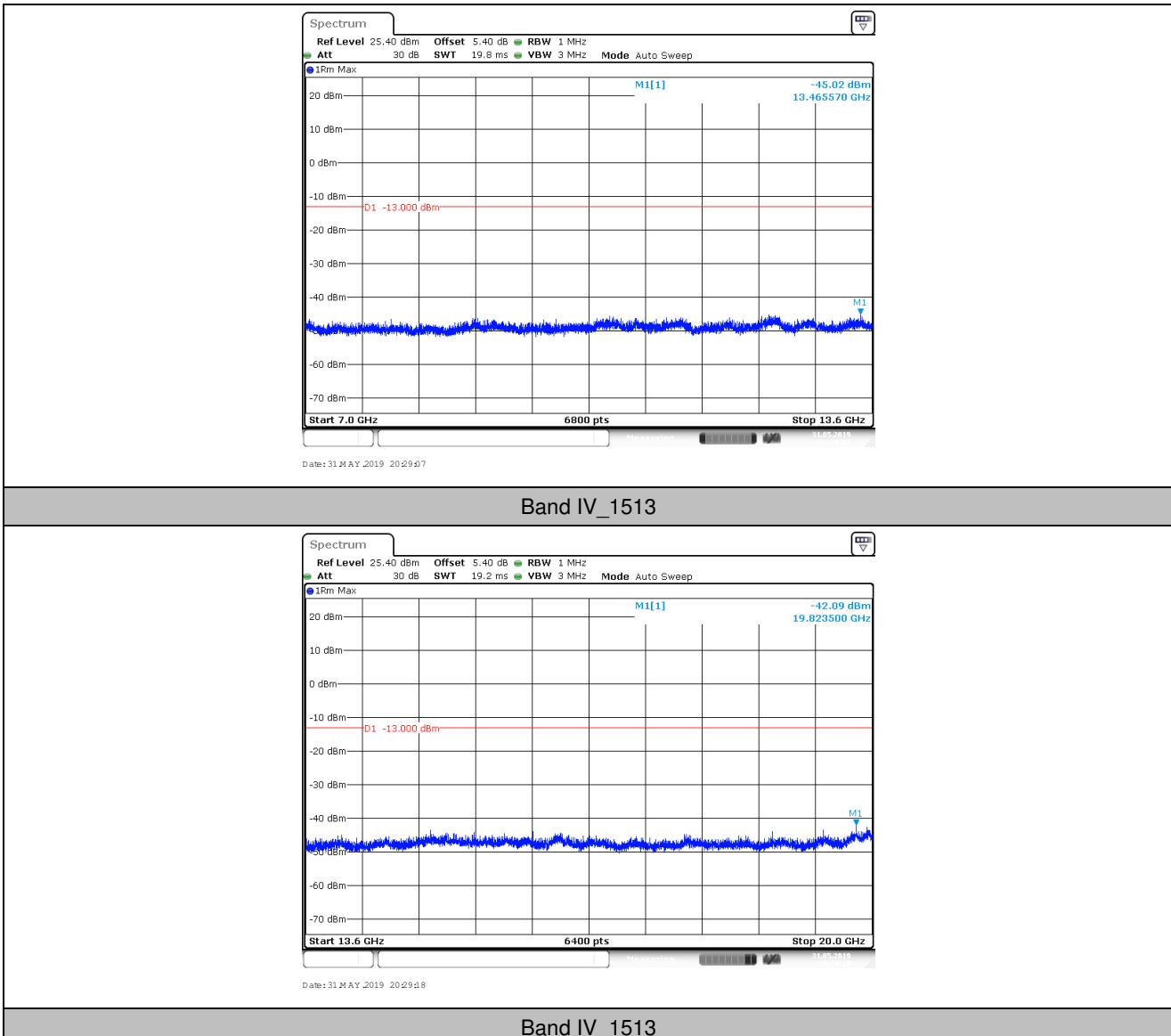


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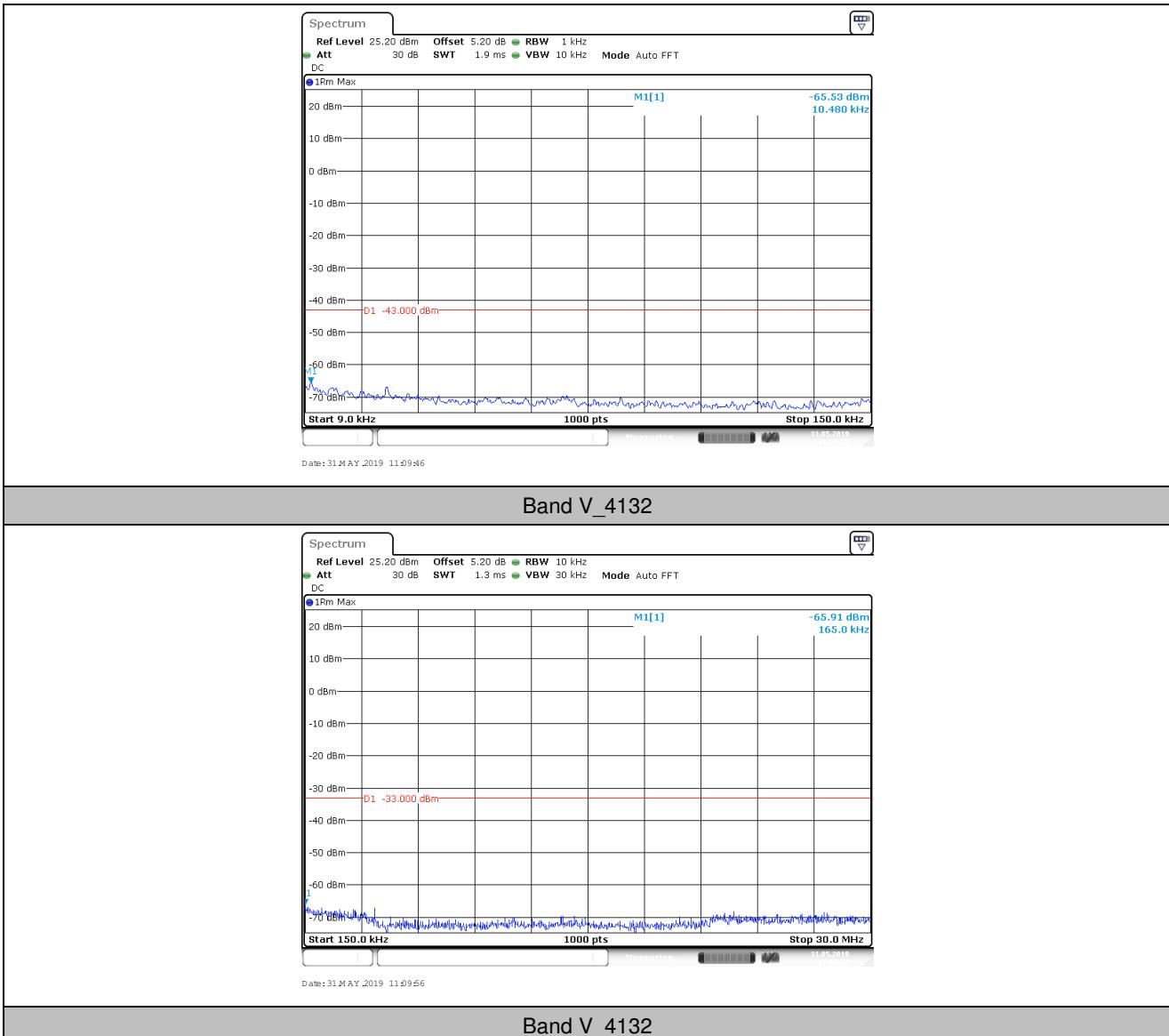


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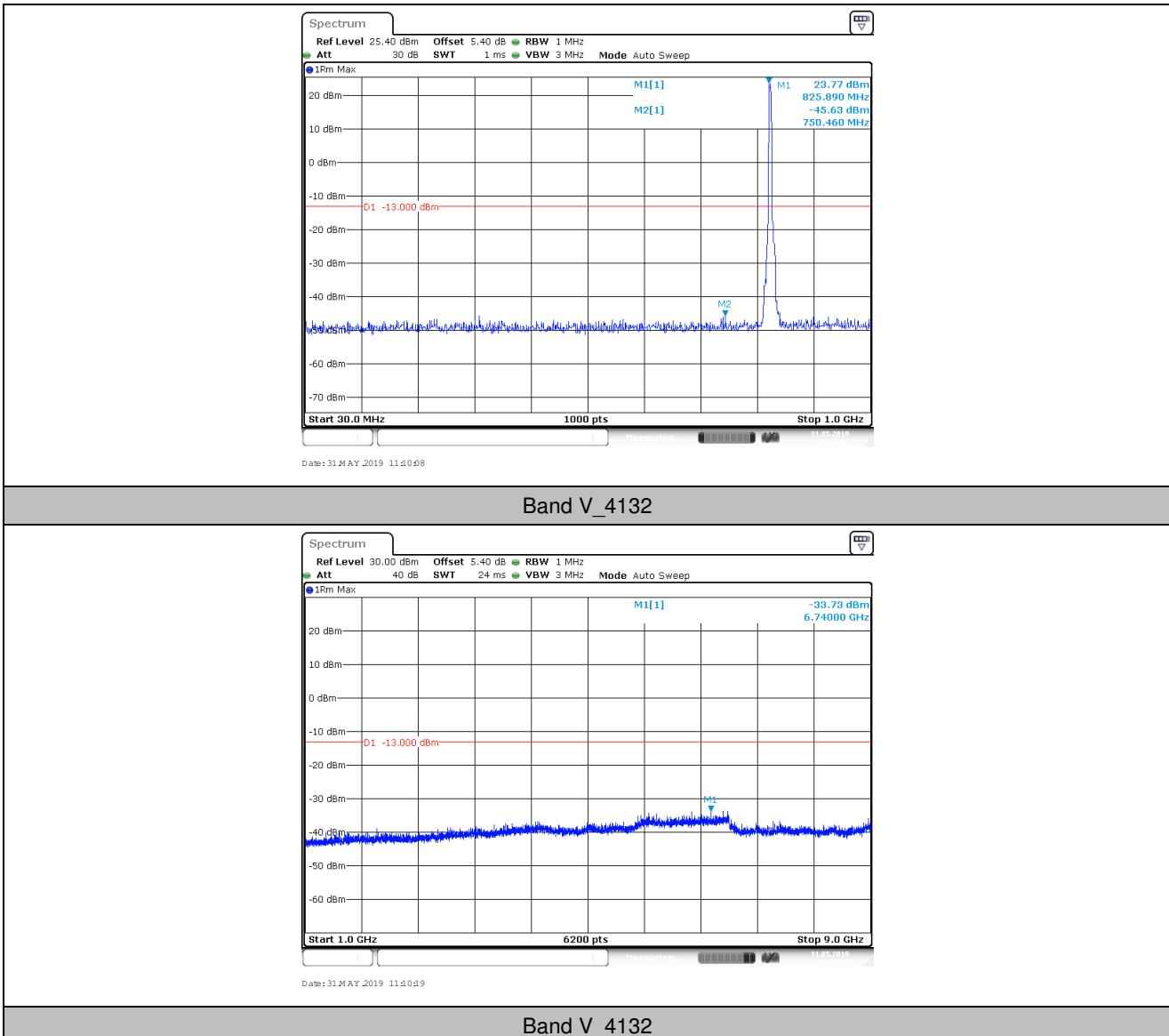


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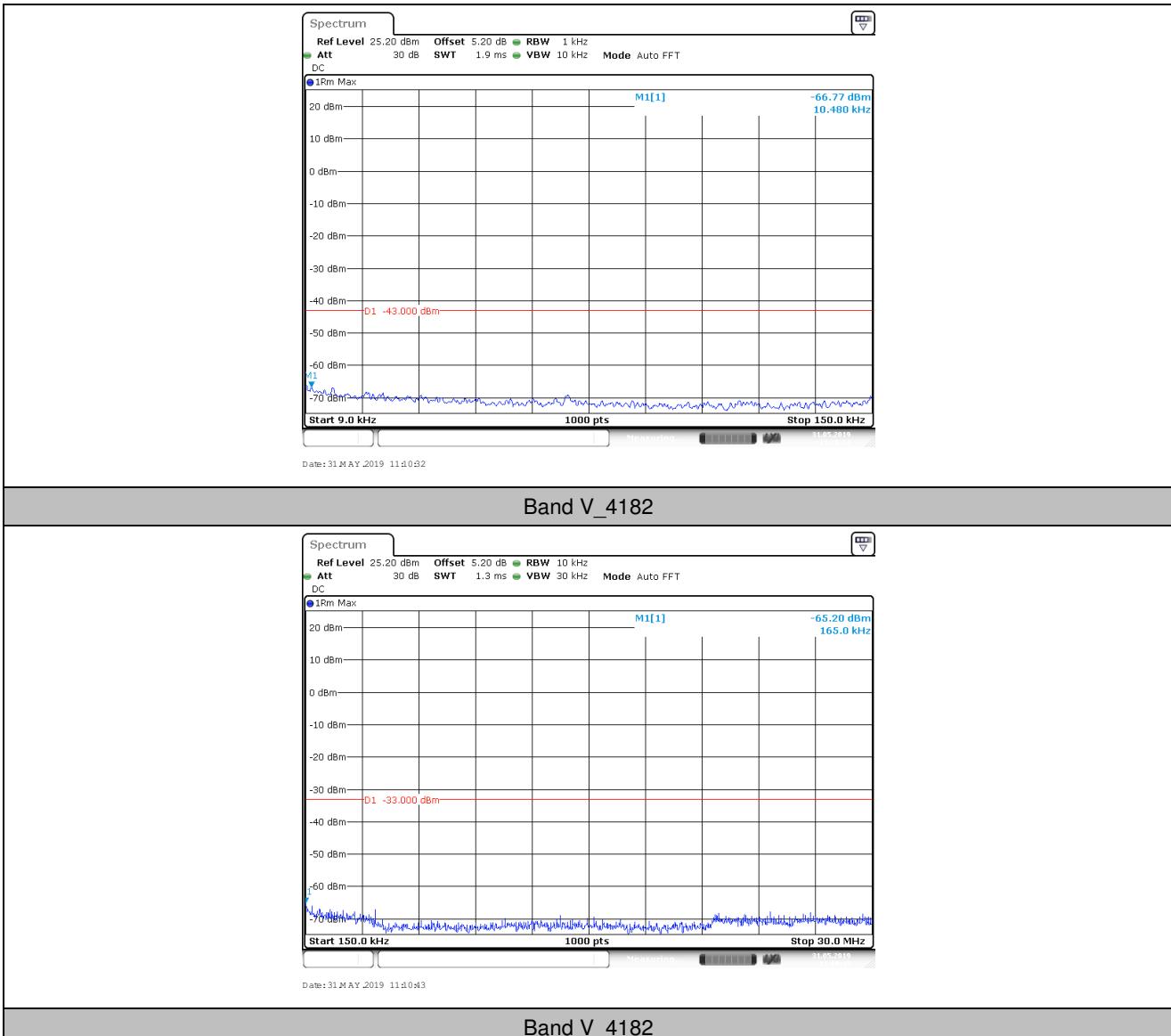


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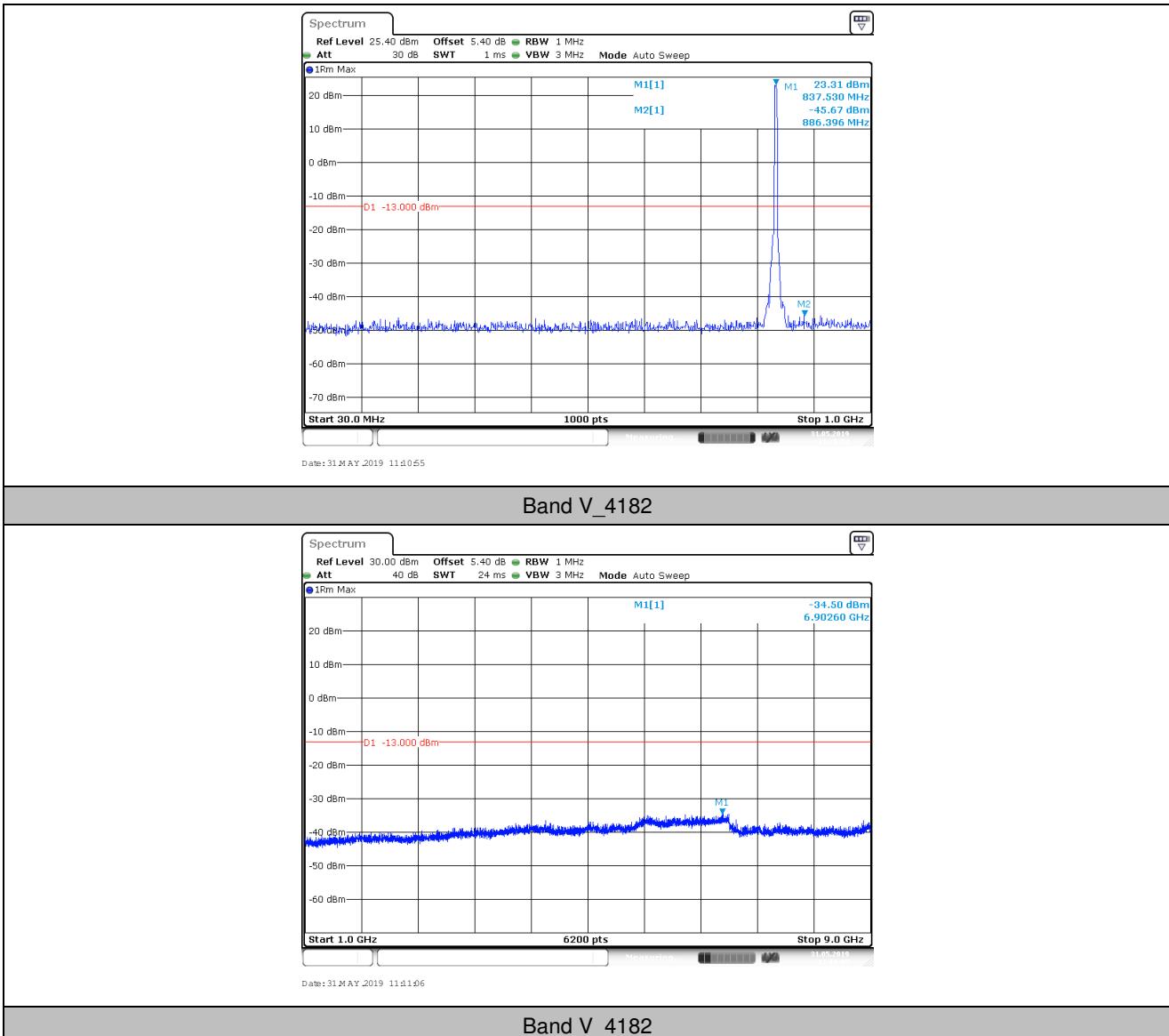


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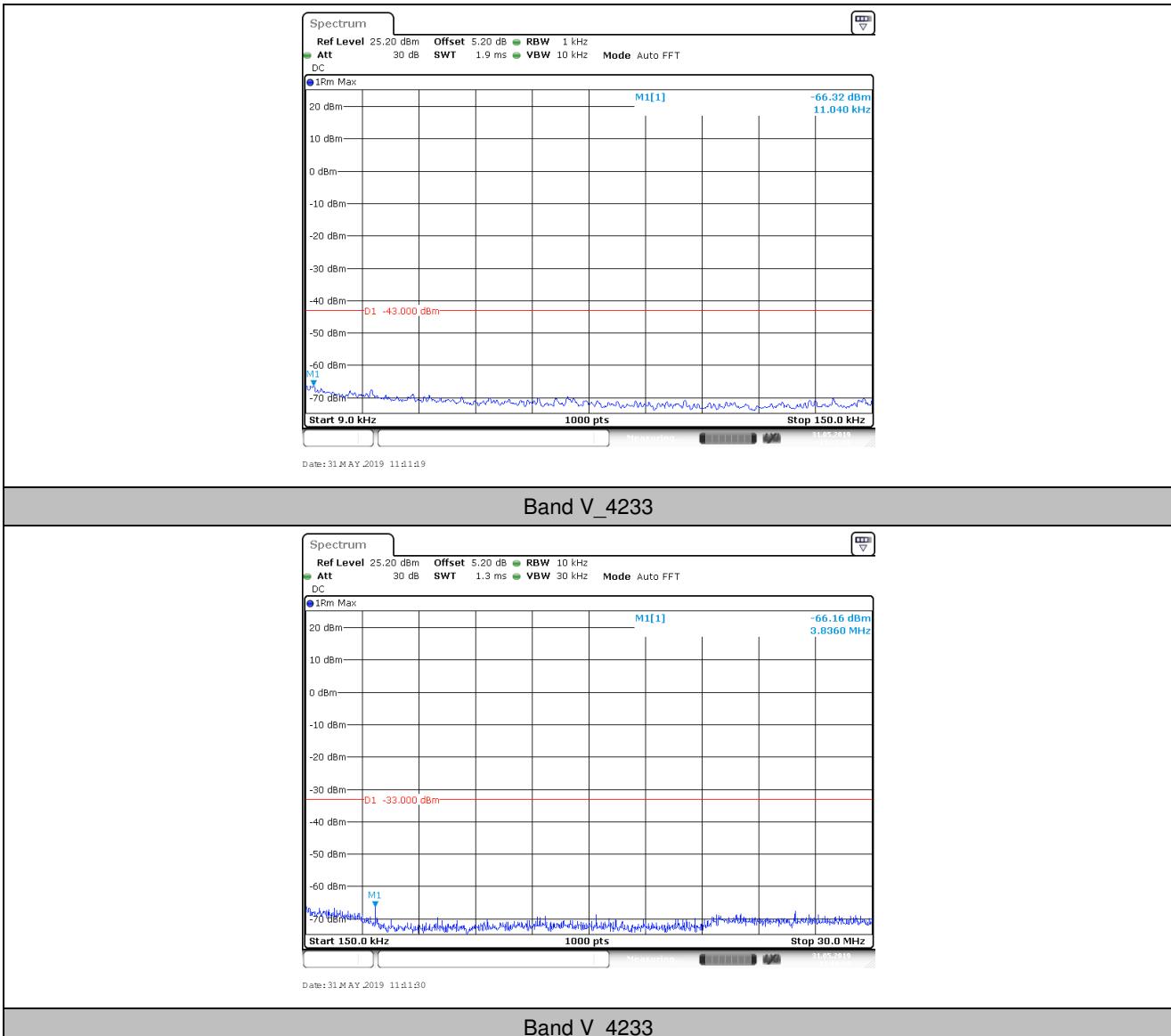
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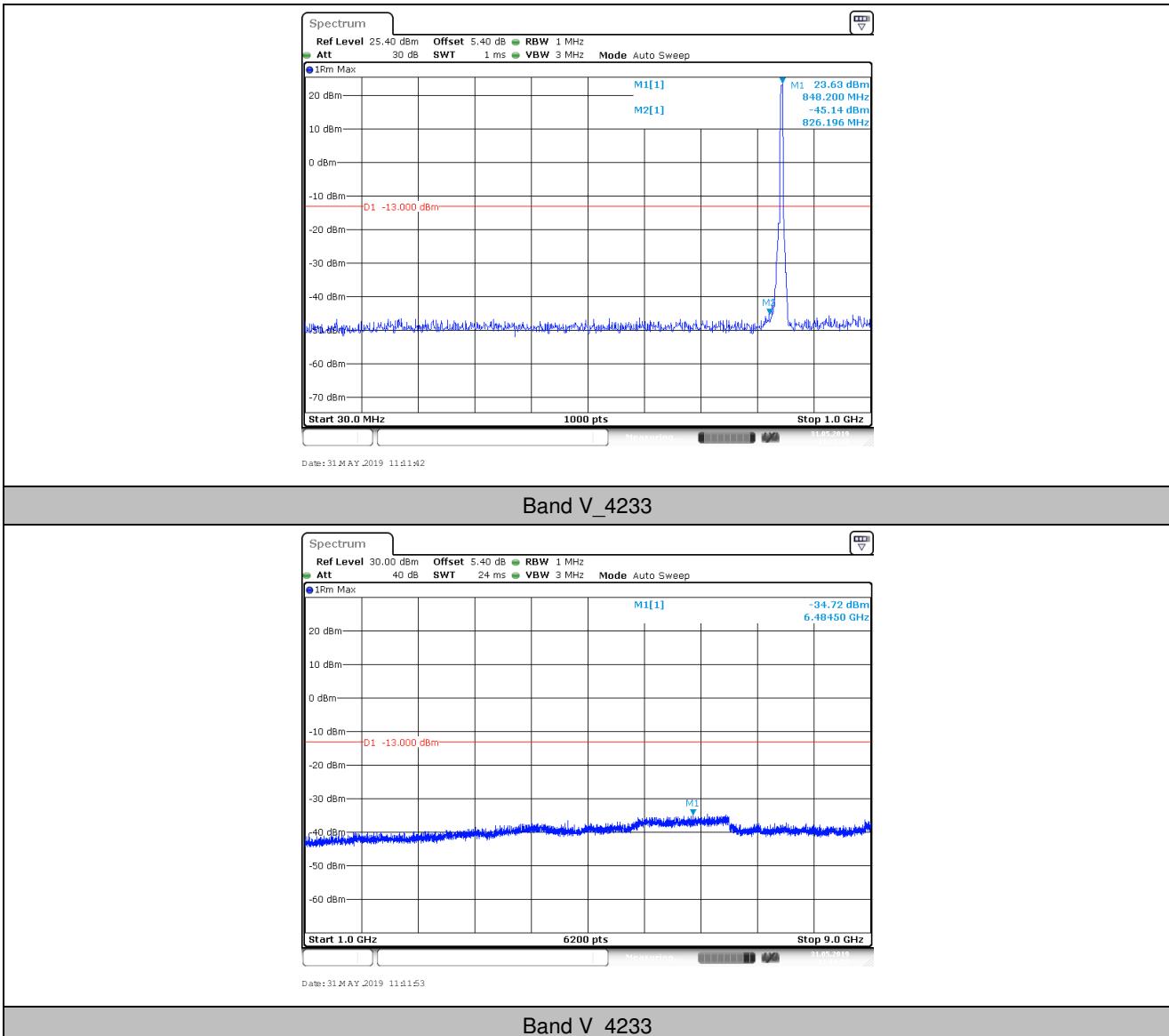
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7. Field Strength of Spurious Radiation

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
55.850000	-80.62	-13.00	67.62	Vertical
104.250000	-77.79	-13.00	64.79	Vertical
313.950000	-80.67	-13.00	67.67	Vertical
3702.975000	-60.32	-13.00	47.32	Vertical
5559.862500	-65.08	-13.00	52.08	Vertical
7406.025000	-61.60	-13.00	48.60	Vertical
62.300000	-77.61	-13.00	64.61	Horizontal
104.300000	-82.36	-13.00	69.36	Horizontal
196.750000	-79.40	-13.00	66.40	Horizontal
3706.387500	-61.62	-13.00	48.62	Horizontal
5554.012500	-65.48	-13.00	52.48	Horizontal
7406.512500	-61.48	-13.00	48.48	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.550000	-81.88	-13.00	68.88	Vertical
104.250000	-77.46	-13.00	64.46	Vertical
313.550000	-80.65	-13.00	67.65	Vertical
3761.475000	-58.87	-13.00	45.87	Vertical
5636.887500	-64.27	-13.00	51.27	Vertical
7516.687500	-63.18	-13.00	50.18	Vertical
56.050000	-77.49	-13.00	64.49	Horizontal
104.300000	-82.03	-13.00	69.03	Horizontal
200.150000	-77.88	-13.00	64.88	Horizontal
3758.062500	-61.28	-13.00	48.28	Horizontal
5636.887500	-64.20	-13.00	51.20	Horizontal
7517.175000	-63.80	-13.00	50.80	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.450000	-81.11	-13.00	68.11	Vertical
104.300000	-78.77	-13.00	65.77	Vertical
315.650000	-80.68	-13.00	67.68	Vertical
3814.125000	-59.98	-13.00	46.98	Vertical
5719.762500	-64.55	-13.00	51.55	Vertical
7627.350000	-62.68	-13.00	49.68	Vertical
62.950000	-77.55	-13.00	64.55	Horizontal
104.300000	-82.73	-13.00	69.73	Horizontal
197.450000	-79.10	-13.00	66.10	Horizontal
3813.150000	-60.27	-13.00	47.27	Horizontal
5719.762500	-62.85	-13.00	49.85	Horizontal
7627.350000	-63.84	-13.00	50.84	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
70.800000	-77.57	-13.00	64.57	Vertical
169.250000	-83.94	-13.00	70.94	Vertical
953.479167	-75.51	-13.00	62.51	Vertical
3422.662500	-54.64	-13.00	41.64	Vertical
4841.287500	-65.09	-13.00	52.09	Vertical
7845.262500	-62.39	-13.00	49.39	Vertical
62.200000	-76.36	-13.00	63.36	Horizontal
168.550000	-82.81	-13.00	69.81	Horizontal
308.500000	-81.36	-13.00	68.36	Horizontal
3423.150000	-56.43	-13.00	43.43	Horizontal
5407.275000	-65.13	-13.00	52.13	Horizontal
7959.825000	-62.39	-13.00	49.39	Horizontal

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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
72.100000	-79.28	-13.00	66.28	Vertical
125.000000	-85.00	-13.00	72.00	Vertical
945.183333	-75.87	-13.00	62.87	Vertical
3463.125000	-51.46	-13.00	38.46	Vertical
5194.237500	-63.73	-13.00	50.73	Vertical
8658.412500	-58.59	-13.00	45.59	Vertical
56.250000	-76.42	-13.00	63.42	Horizontal
188.750000	-82.47	-13.00	69.47	Horizontal
967.595833	-75.02	-13.00	62.02	Horizontal
3463.125000	-52.66	-13.00	39.66	Horizontal
6049.312500	-63.67	-13.00	50.67	Horizontal
8658.900000	-59.69	-13.00	46.69	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
71.150000	-79.03	-13.00	66.03	Vertical
125.000000	-85.10	-13.00	72.10	Vertical
916.583333	-75.98	-13.00	62.98	Vertical
3506.512500	-51.83	-13.00	38.83	Vertical
5255.662500	-65.16	-13.00	52.16	Vertical
8758.837500	-60.61	-13.00	47.61	Vertical
63.200000	-76.12	-13.00	63.12	Horizontal
169.550000	-83.35	-13.00	70.35	Horizontal
957.054167	-75.03	-13.00	62.03	Horizontal
3503.100000	-53.47	-13.00	40.47	Horizontal
6041.025000	-63.88	-13.00	50.88	Horizontal
9253.650000	-61.99	-13.00	48.99	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
64.200000	-81.50	-13.00	68.50	Vertical
104.200000	-81.05	-13.00	68.05	Vertical
314.300000	-80.50	-13.00	67.50	Vertical
1654.500000	-63.54	-13.00	50.54	Vertical
2476.000000	-57.59	-13.00	44.59	Vertical
6030.787500	-65.13	-13.00	52.13	Vertical
62.850000	-77.33	-13.00	64.33	Horizontal
104.300000	-81.92	-13.00	68.92	Horizontal
196.100000	-77.17	-13.00	64.17	Horizontal
1655.000000	-65.20	-13.00	52.20	Horizontal
2473.000000	-58.87	-13.00	45.87	Horizontal
6050.775000	-65.13	-13.00	52.13	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.900000	-81.39	-13.00	68.39	Vertical
104.250000	-78.17	-13.00	65.17	Vertical
313.800000	-80.21	-13.00	67.21	Vertical
1671.000000	-63.85	-13.00	50.85	Vertical
2506.000000	-57.32	-13.00	44.32	Vertical
6053.212500	-65.12	-13.00	52.12	Vertical
62.750000	-77.35	-13.00	64.35	Horizontal
104.300000	-81.83	-13.00	68.83	Horizontal
195.550000	-77.54	-13.00	64.54	Horizontal
1671.000000	-64.88	-13.00	51.88	Horizontal
2473.000000	-58.77	-13.00	45.77	Horizontal
6050.287500	-65.13	-13.00	52.13	Horizontal

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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
55.600000	-81.48	-13.00	68.48	Vertical
104.250000	-79.87	-13.00	66.87	Vertical
314.350000	-80.28	-13.00	67.28	Vertical
1691.500000	-58.18	-13.00	45.18	Vertical
2542.500000	-58.80	-13.00	45.80	Vertical
6270.637500	-65.50	-13.00	52.50	Vertical
62.650000	-77.49	-13.00	64.49	Horizontal
104.300000	-81.53	-13.00	68.53	Horizontal
197.750000	-79.15	-13.00	66.15	Horizontal
1691.500000	-62.76	-13.00	49.76	Horizontal
2543.500000	-59.54	-13.00	46.54	Horizontal
6054.675000	-65.04	-13.00	52.04	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

BAND	Channel	Voltage						Verdict
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band II	9262	VL	TN	0.89	0.000479	±2.5	PASS	
Band II	9262	VN	TN	1.95	0.001050	±2.5	PASS	
Band II	9262	VH	TN	1.92	0.001035	±2.5	PASS	
Band II	9400	VL	TN	-0.75	-0.000399	±2.5	PASS	
Band II	9400	VN	TN	-0.36	-0.000194	±2.5	PASS	
Band II	9400	VH	TN	-0.31	-0.000164	±2.5	PASS	
Band II	9538	VL	TN	-4.60	-0.002411	±2.5	PASS	
Band II	9538	VN	TN	-4.36	-0.002283	±2.5	PASS	
Band II	9538	VH	TN	-4.68	-0.002452	±2.5	PASS	
Band IV	1312	VL	TN	15.34	0.008959	±2.5	PASS	
Band IV	1312	VN	TN	15.87	0.009269	±2.5	PASS	
Band IV	1312	VH	TN	16.47	0.009619	±2.5	PASS	
Band IV	1413	VL	TN	-3.31	-0.001911	±2.5	PASS	
Band IV	1413	VN	TN	-4.09	-0.002361	±2.5	PASS	
Band IV	1413	VH	TN	0.20	0.000116	±2.5	PASS	
Band IV	1513	VL	TN	-13.01	-0.007424	±2.5	PASS	
Band IV	1513	VN	TN	-13.05	-0.007444	±2.5	PASS	
Band IV	1513	VH	TN	-13.48	-0.007689	±2.5	PASS	
Band V	4132	VL	TN	0.39	0.000467	±2.5	PASS	
Band V	4132	VN	TN	0.42	0.000511	±2.5	PASS	
Band V	4132	VH	TN	0.88	0.001065	±2.5	PASS	
Band V	4182	VL	TN	-0.24	-0.000291	±2.5	PASS	
Band V	4182	VN	TN	0.31	0.000376	±2.5	PASS	
Band V	4182	VH	TN	-0.31	-0.000368	±2.5	PASS	
Band V	4233	VL	TN	-1.37	-0.001614	±2.5	PASS	
Band V	4233	VN	TN	-1.78	-0.002104	±2.5	PASS	
Band V	4233	VH	TN	-1.46	-0.001724	±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	2.58	0.001394	±2.5	PASS
Band II	9262	VN	-20	2.36	0.001274	±2.5	PASS
Band II	9262	VN	-10	2.62	0.001417	±2.5	PASS
Band II	9262	VN	0	1.89	0.001019	±2.5	PASS
Band II	9262	VN	10	2.00	0.001081	±2.5	PASS
Band II	9262	VN	20	2.40	0.001294	±2.5	PASS
Band II	9262	VN	30	2.12	0.001143	±2.5	PASS
Band II	9262	VN	40	1.75	0.000942	±2.5	PASS
Band II	9262	VN	50	2.22	0.001197	±2.5	PASS
Band II	9400	VN	-30	-0.80	-0.000426	±2.5	PASS
Band II	9400	VN	-20	-0.82	-0.000434	±2.5	PASS
Band II	9400	VN	-10	-0.37	-0.000198	±2.5	PASS
Band II	9400	VN	0	-0.59	-0.000316	±2.5	PASS
Band II	9400	VN	10	-1.14	-0.000609	±2.5	PASS
Band II	9400	VN	20	-1.17	-0.000624	±2.5	PASS
Band II	9400	VN	30	-0.19	-0.000099	±2.5	PASS
Band II	9400	VN	40	-0.29	-0.000156	±2.5	PASS
Band II	9400	VN	50	-0.45	-0.000240	±2.5	PASS
Band II	9538	VN	-30	-4.26	-0.002235	±2.5	PASS
Band II	9538	VN	-20	-4.95	-0.002595	±2.5	PASS
Band II	9538	VN	-10	-4.67	-0.002448	±2.5	PASS
Band II	9538	VN	0	-4.23	-0.002220	±2.5	PASS
Band II	9538	VN	10	-4.30	-0.002253	±2.5	PASS
Band II	9538	VN	20	-5.05	-0.002647	±2.5	PASS
Band II	9538	VN	30	-4.52	-0.002370	±2.5	PASS
Band II	9538	VN	40	-3.88	-0.002032	±2.5	PASS
Band II	9538	VN	50	-4.52	-0.002370	±2.5	PASS
Band IV	1312	VN	-30	15.96	0.009319	±2.5	PASS
Band IV	1312	VN	-20	16.62	0.009703	±2.5	PASS
Band IV	1312	VN	-10	16.11	0.009406	±2.5	PASS
Band IV	1312	VN	0	16.26	0.009494	±2.5	PASS
Band IV	1312	VN	10	15.73	0.009185	±2.5	PASS
Band IV	1312	VN	20	16.44	0.009603	±2.5	PASS

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Band IV	1312	VN	30	16.14	0.009427	±2.5	PASS
Band IV	1312	VN	40	15.89	0.009277	±2.5	PASS
Band IV	1312	VN	50	16.04	0.009369	±2.5	PASS
Band IV	1413	VN	-30	-2.43	-0.001404	±2.5	PASS
Band IV	1413	VN	-20	0.21	0.000120	±2.5	PASS
Band IV	1413	VN	-10	-2.52	-0.001453	±2.5	PASS
Band IV	1413	VN	0	-2.22	-0.001284	±2.5	PASS
Band IV	1413	VN	10	-4.79	-0.002766	±2.5	PASS
Band IV	1413	VN	20	-1.93	-0.001115	±2.5	PASS
Band IV	1413	VN	30	1.84	0.001061	±2.5	PASS
Band IV	1413	VN	40	4.81	0.002774	±2.5	PASS
Band IV	1413	VN	50	-3.76	-0.002167	±2.5	PASS
Band IV	1513	VN	-30	-13.17	-0.007513	±2.5	PASS
Band IV	1513	VN	-20	-13.21	-0.007538	±2.5	PASS
Band IV	1513	VN	-10	-13.07	-0.007456	±2.5	PASS
Band IV	1513	VN	0	-13.49	-0.007697	±2.5	PASS
Band IV	1513	VN	10	-13.28	-0.007575	±2.5	PASS
Band IV	1513	VN	20	-12.97	-0.007399	±2.5	PASS
Band IV	1513	VN	30	-13.76	-0.007852	±2.5	PASS
Band IV	1513	VN	40	-12.97	-0.007399	±2.5	PASS
Band IV	1513	VN	50	-15.18	-0.008664	±2.5	PASS
Band V	4132	VN	-30	1.02	0.001238	±2.5	PASS
Band V	4132	VN	-20	0.14	0.000173	±2.5	PASS
Band V	4132	VN	-10	1.48	0.001792	±2.5	PASS
Band V	4132	VN	0	0.48	0.000580	±2.5	PASS
Band V	4132	VN	10	2.32	0.002813	±2.5	PASS
Band V	4132	VN	20	0.43	0.000519	±2.5	PASS
Band V	4132	VN	30	0.20	0.000242	±2.5	PASS
Band V	4132	VN	40	0.90	0.001091	±2.5	PASS
Band V	4132	VN	50	1.17	0.001411	±2.5	PASS
Band V	4182	VN	-30	-1.14	-0.001360	±2.5	PASS
Band V	4182	VN	-20	-0.16	-0.000188	±2.5	PASS
Band V	4182	VN	-10	0.44	0.000522	±2.5	PASS
Band V	4182	VN	0	-1.07	-0.001274	±2.5	PASS
Band V	4182	VN	10	-1.07	-0.001283	±2.5	PASS
Band V	4182	VN	20	-0.24	-0.000291	±2.5	PASS
Band V	4182	VN	30	-0.13	-0.000154	±2.5	PASS
Band V	4182	VN	40	-1.12	-0.001334	±2.5	PASS

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Band V	4182	VN	50	-1.54	-0.001839	±2.5	PASS
Band V	4233	VN	-30	-1.56	-0.001842	±2.5	PASS
Band V	4233	VN	-20	-1.78	-0.002104	±2.5	PASS
Band V	4233	VN	-10	-1.62	-0.001909	±2.5	PASS
Band V	4233	VN	0	-1.27	-0.001495	±2.5	PASS
Band V	4233	VN	10	-1.67	-0.001977	±2.5	PASS
Band V	4233	VN	20	-1.40	-0.001656	±2.5	PASS
Band V	4233	VN	30	-1.39	-0.001639	±2.5	PASS
Band V	4233	VN	40	-1.57	-0.001859	±2.5	PASS
Band V	4233	VN	50	-1.64	-0.001935	±2.5	PASS

The End

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