

# Appendix B

## WCDMA Band II & IV & V



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

**ANT4:**

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.91	21.21	33.00	PASS
Band II	9400	23.93	21.23	33.00	PASS
Band II	9538	24.01	21.31	33.00	PASS
Band IV	1312	23.17	22.37	30.00	PASS
Band IV	1413	23.11	22.31	30.00	PASS
Band IV	1513	23.07	22.27	30.00	PASS

**ANT1**

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.14	20.19	38.45	PASS
Band V	4182	24.27	20.32	38.45	PASS
Band V	4233	24.21	20.26	38.45	PASS

**ANT3:**

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	19.01	20.01	33.00	PASS
Band II	9400	19.1	20.1	33.00	PASS
Band II	9538	18.97	19.97	33.00	PASS
Band IV	1312	18.52	18.72	30.00	PASS
Band IV	1413	18.62	18.82	30.00	PASS
Band IV	1513	18.47	18.67	30.00	PASS

**ANT0**

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.14	12.39	38.45	PASS
Band V	4182	23.25	12.5	38.45	PASS
Band V	4233	23.11	12.36	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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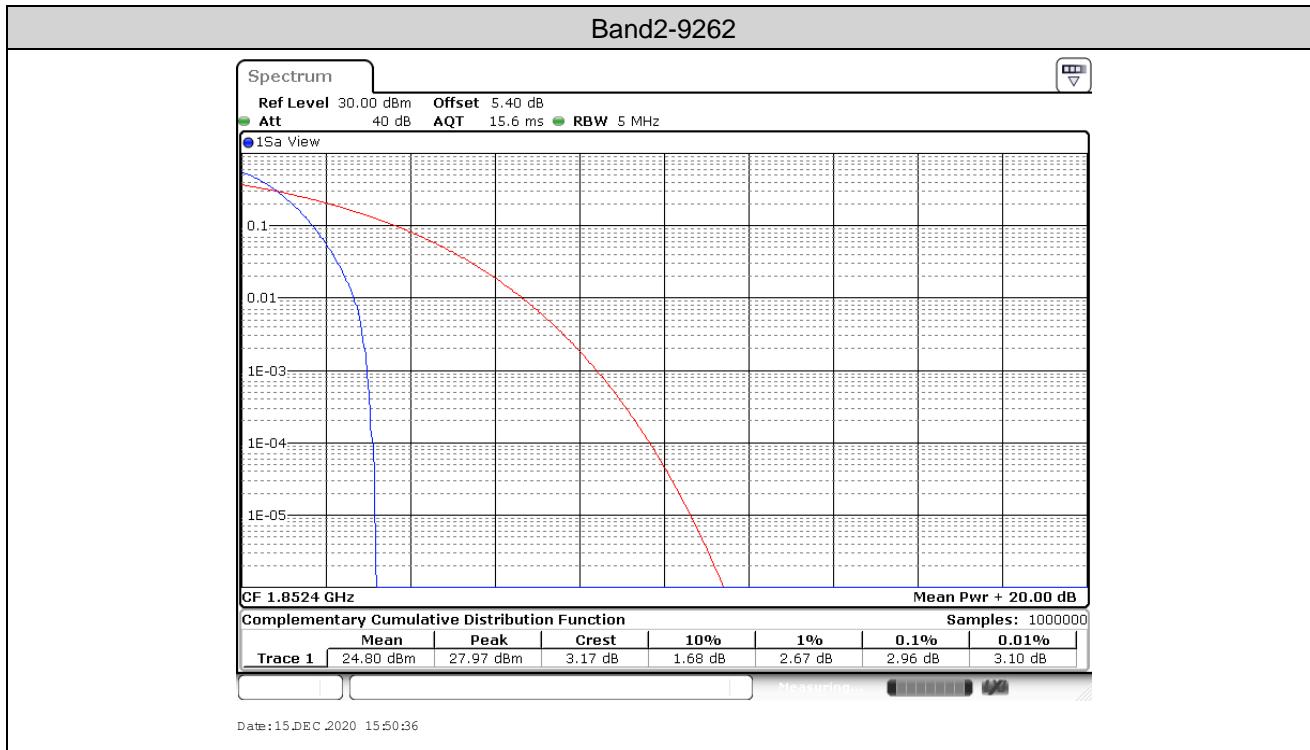
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.96	13	PASS
Band2	9400	2.96	13	PASS
Band2	9538	2.93	13	PASS
Band4	1312	2.93	13	PASS
Band4	1413	2.9	13	PASS
Band4	1513	2.96	13	PASS
Band5	4132	2.87	13	PASS
Band5	4182	2.9	13	PASS
Band5	4233	3.01	13	PASS

### 2.2. Test Plots



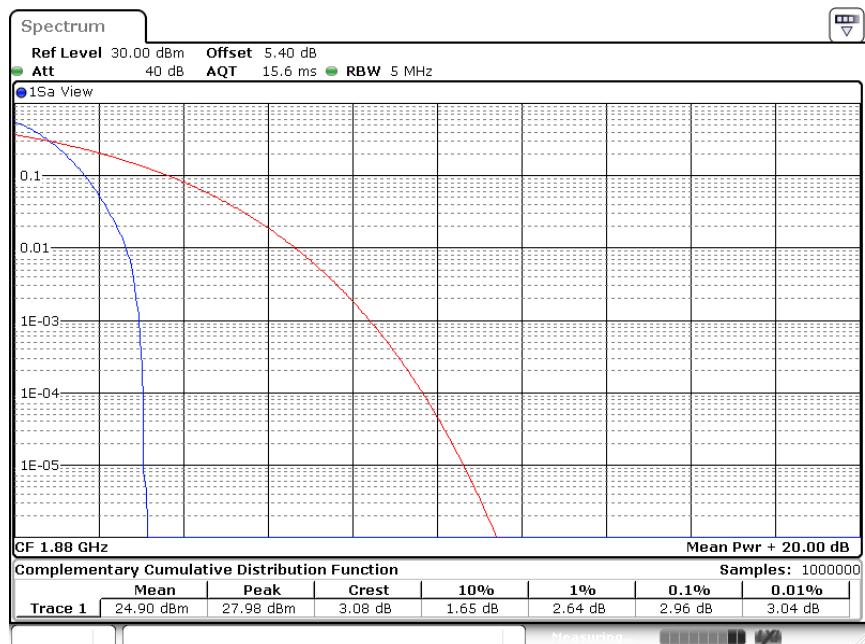
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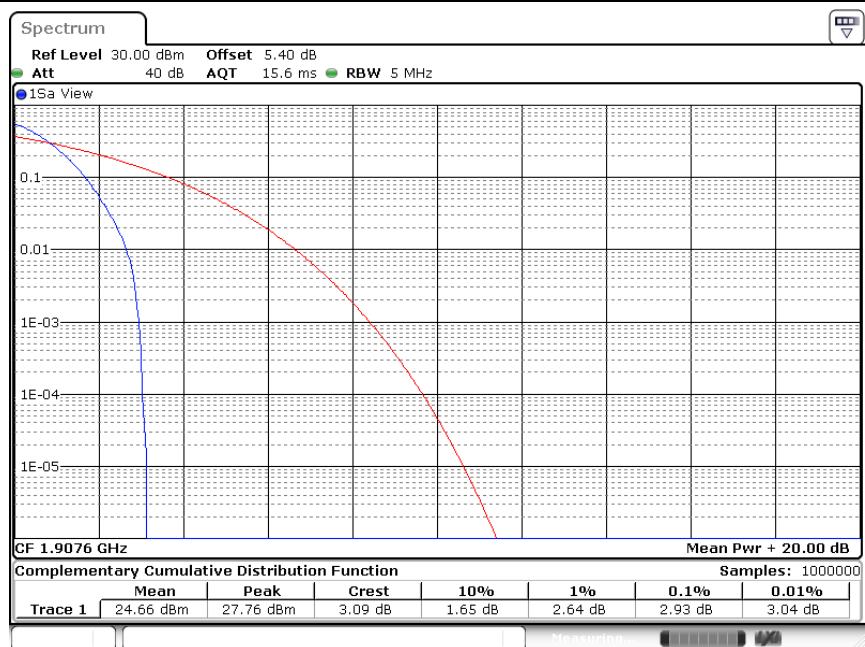
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## Band2-9400



Date: 15 DEC 2020 15:50:51

## Band2-9538



Date: 15 DEC 2020 15:51:06

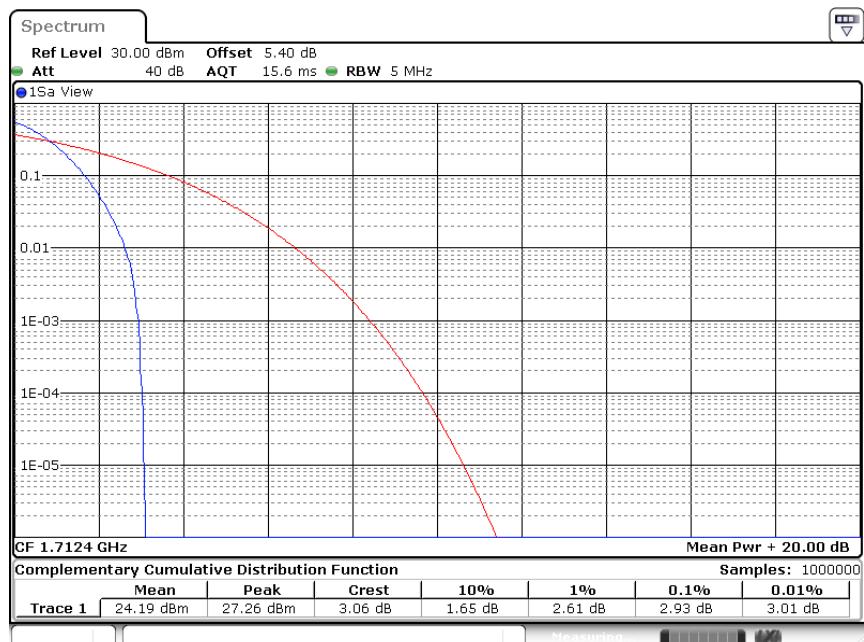
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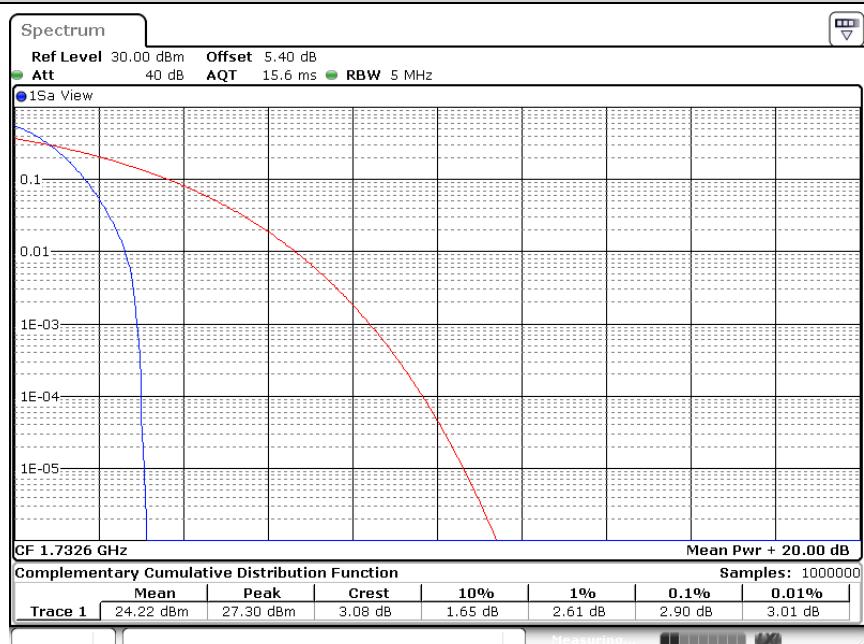
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## Band4-1312



Date: 15.DEC.2020 15:28:35

## Band4-1413



Date: 15.DEC.2020 15:28:50

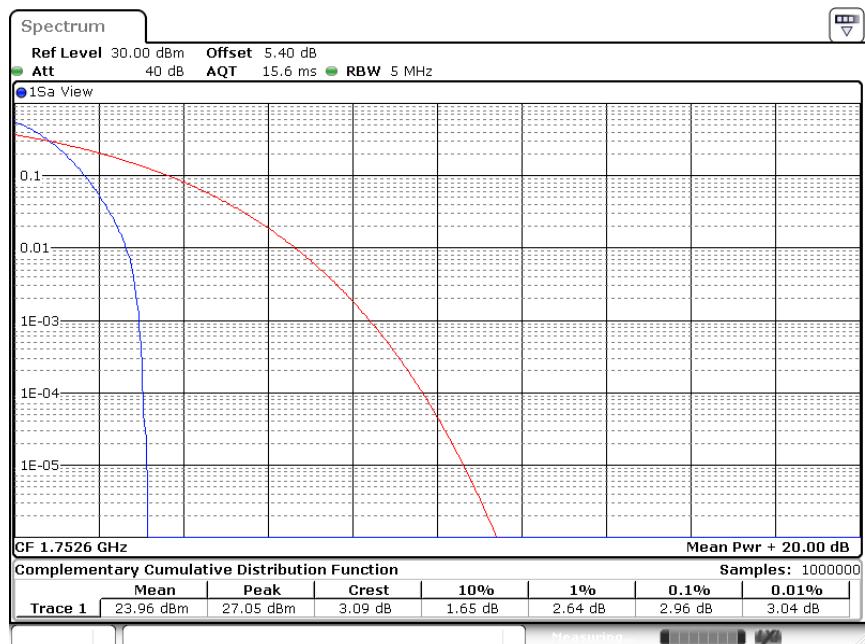
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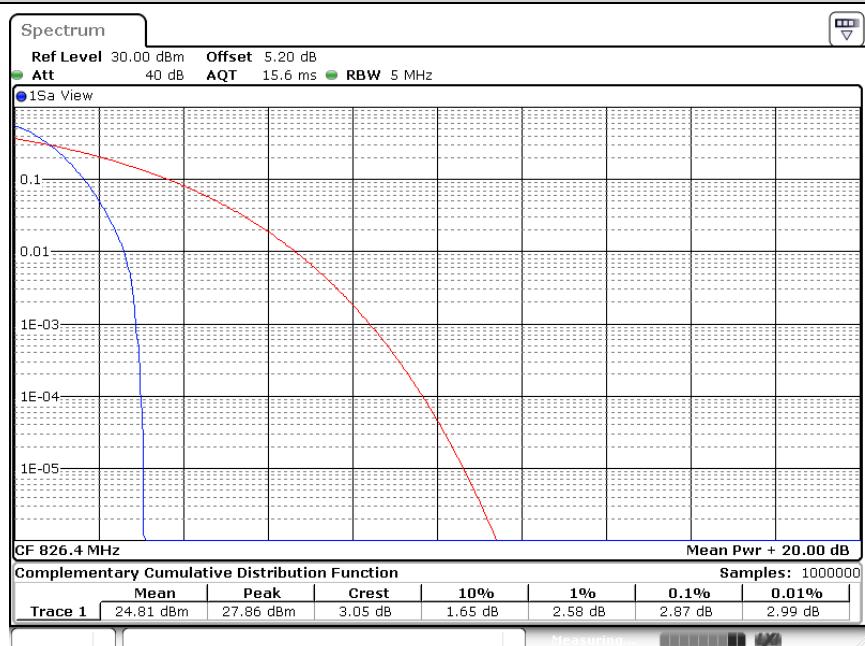
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## Band4-1513



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## Band5-4132



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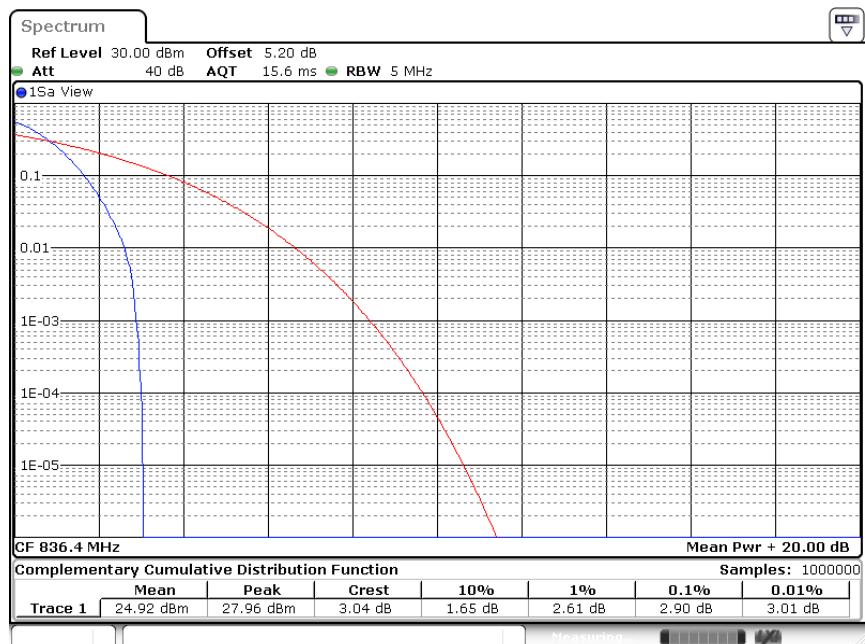
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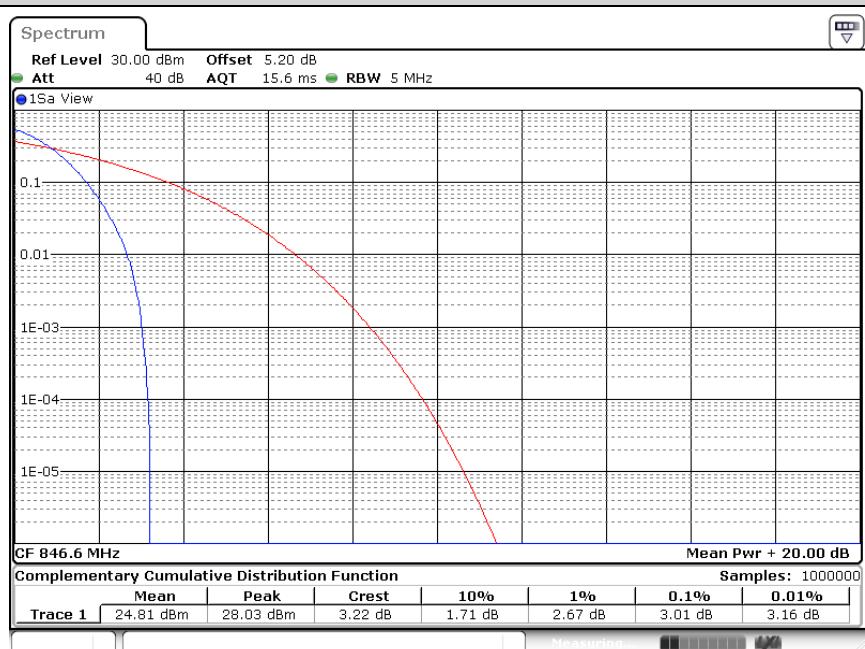


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## Band5-4182



## Band5-4233



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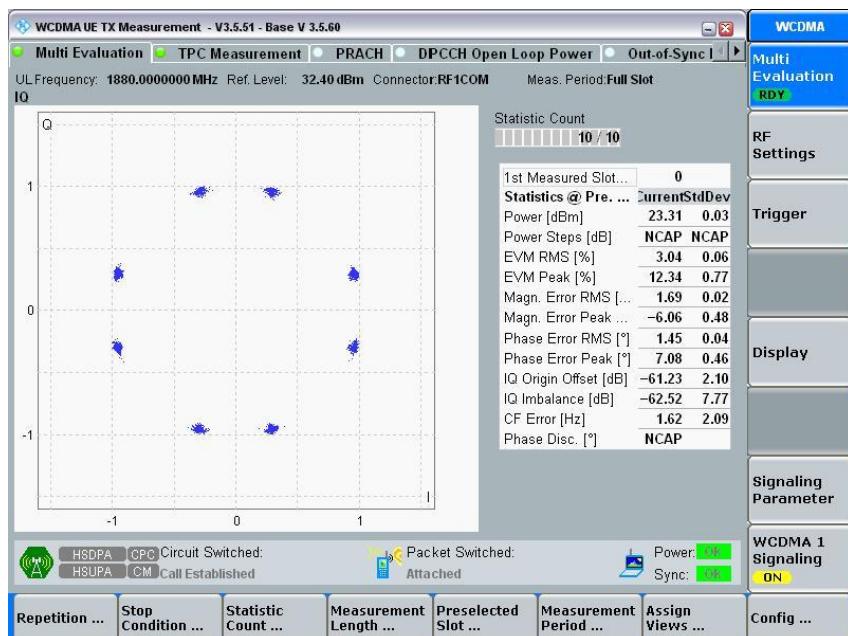
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### 3. Modulation Characteristics

#### 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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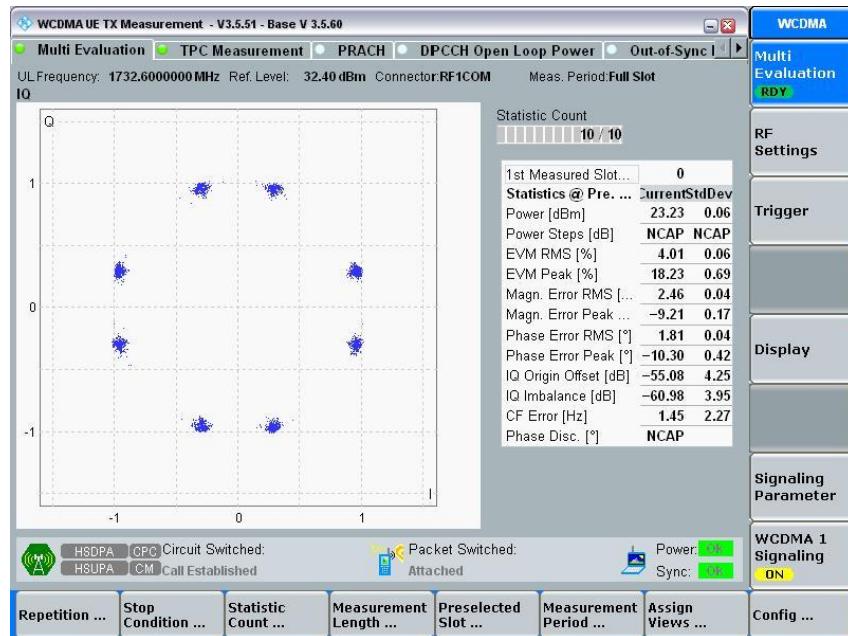
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## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH



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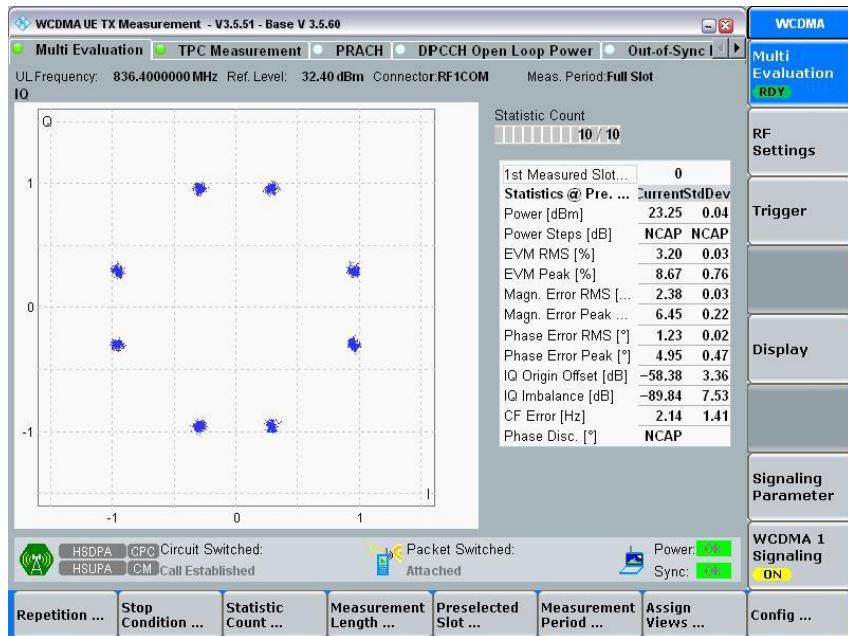
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### 3.3. Test Band = WCDMA Band V

#### 3.3.1. Test Mode = UMTS/TM1

##### 3.3.1.1. Test Channel = MCH



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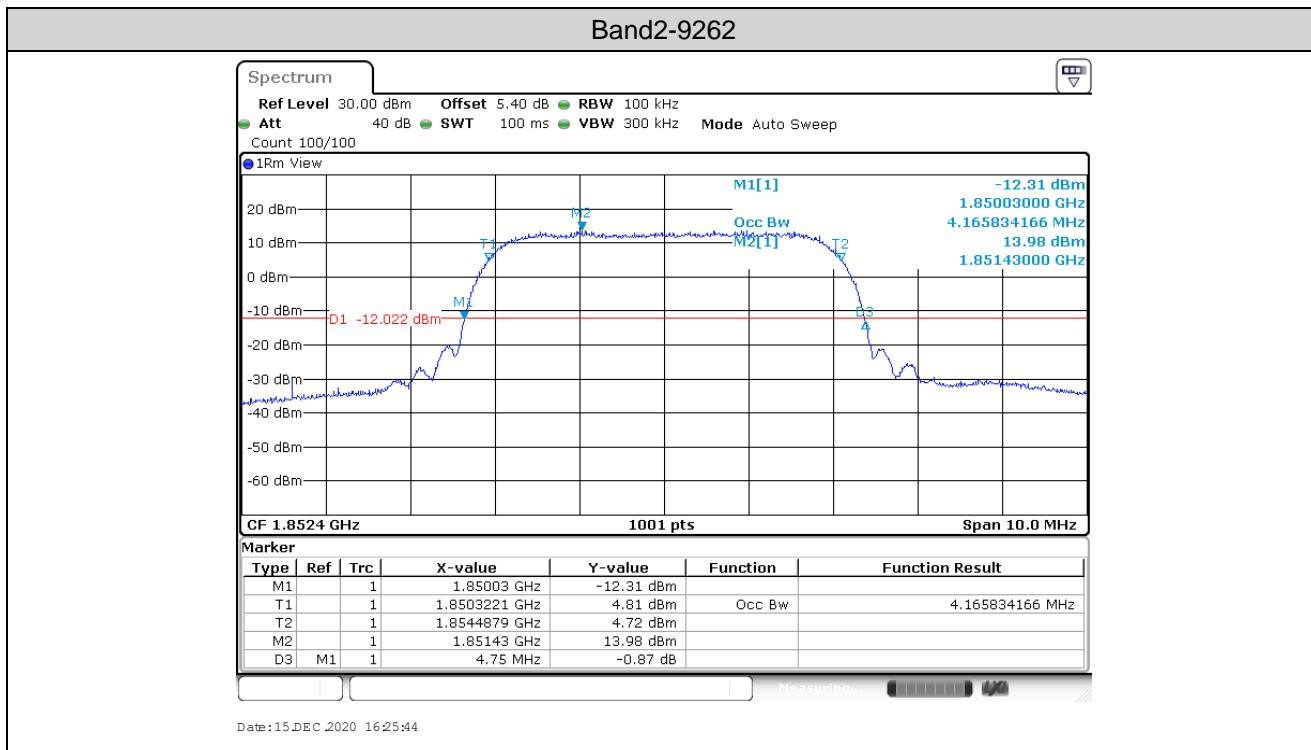
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.166	4.750	---	PASS
Band2	9400	4.156	4.750	---	PASS
Band2	9538	4.166	4.750	---	PASS
Band4	1312	4.176	4.750	---	PASS
Band4	1413	4.166	4.750	---	PASS
Band4	1513	4.166	4.750	---	PASS
Band5	4132	4.176	4.760	---	PASS
Band5	4182	4.166	4.750	---	PASS
Band5	4233	4.146	4.750	---	PASS

### 4.2. Test Plots



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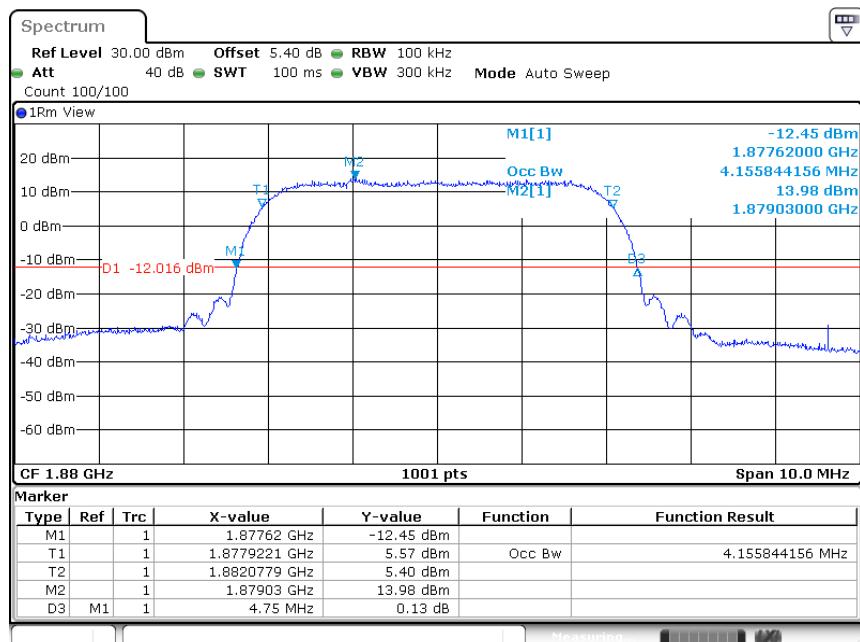
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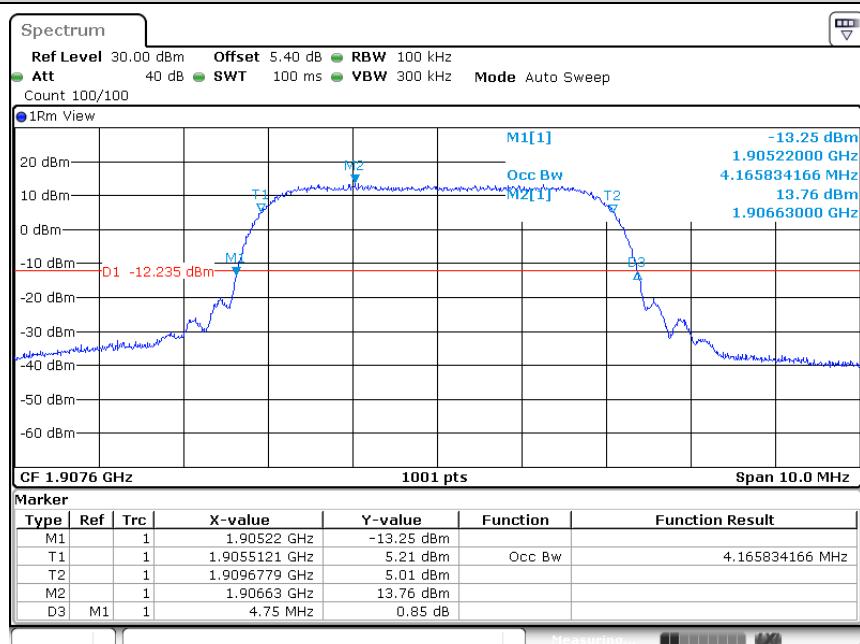
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## Band2-9400



## Band2-9538

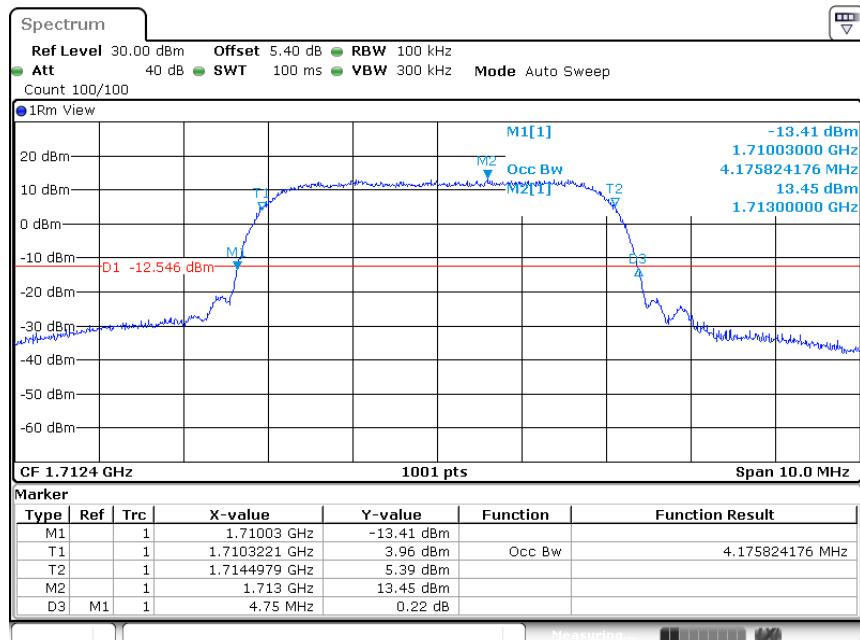


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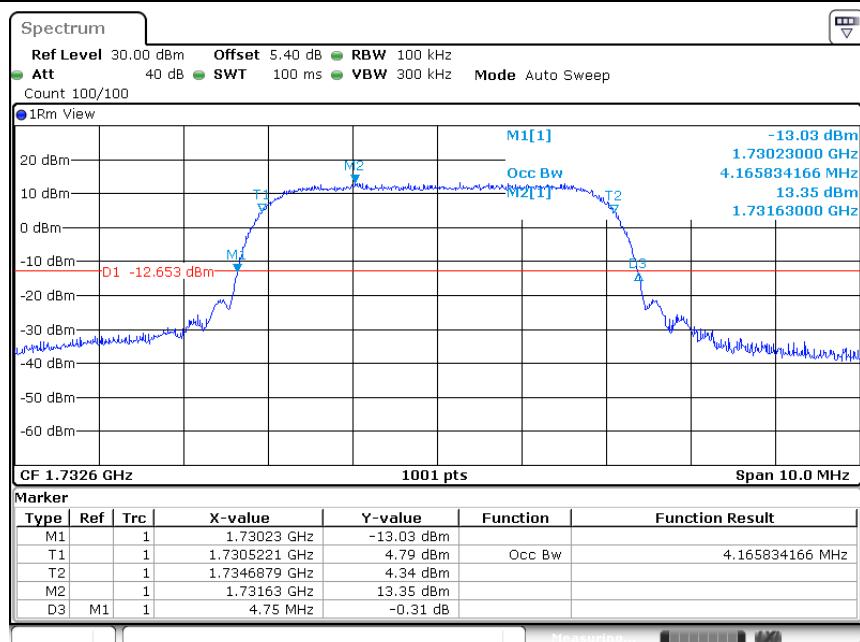


## Band4-1312



Date: 15.DEC.2020 15:41:36

## Band4-1413



Date: 15.DEC.2020 15:41:59

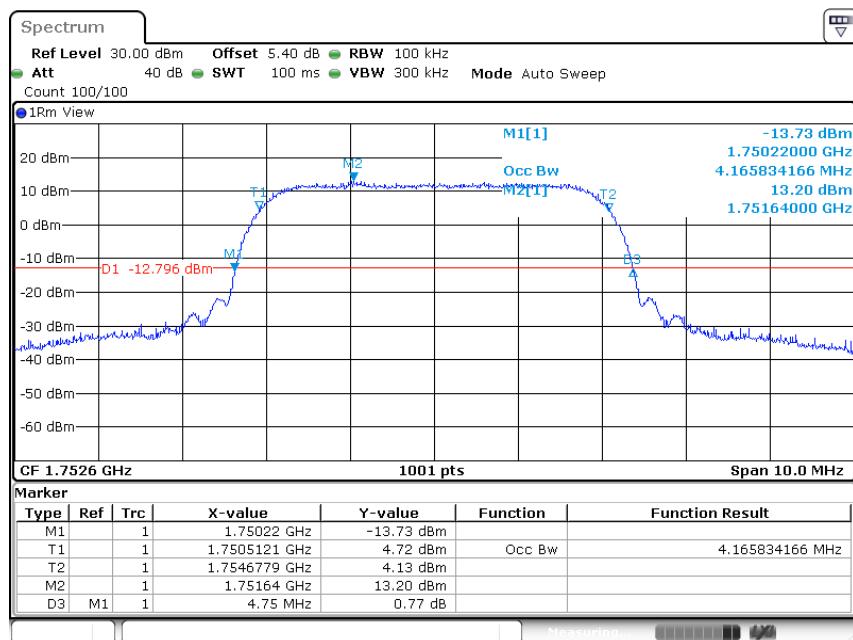
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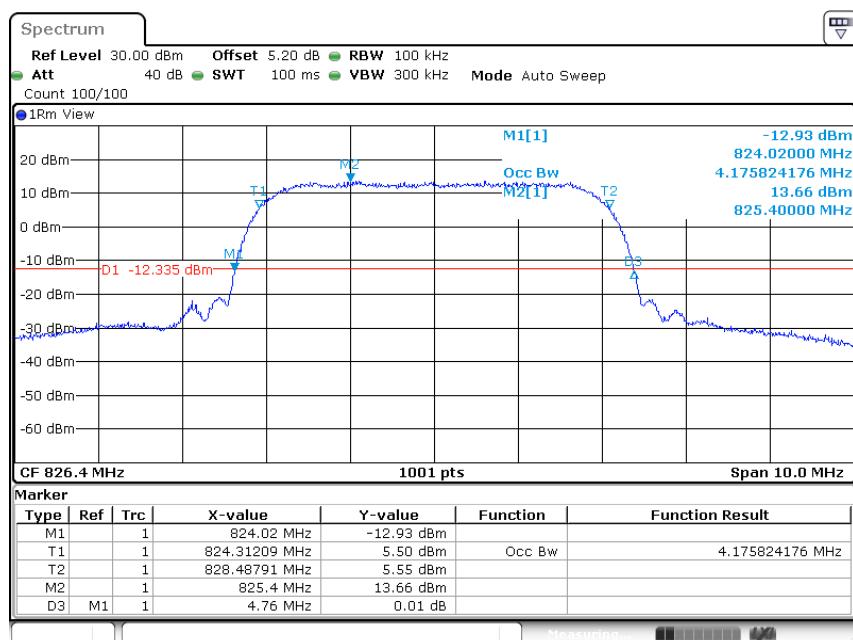
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Band4-1513



Date: 15 DEC 2020 15:42:23

Band5-4132



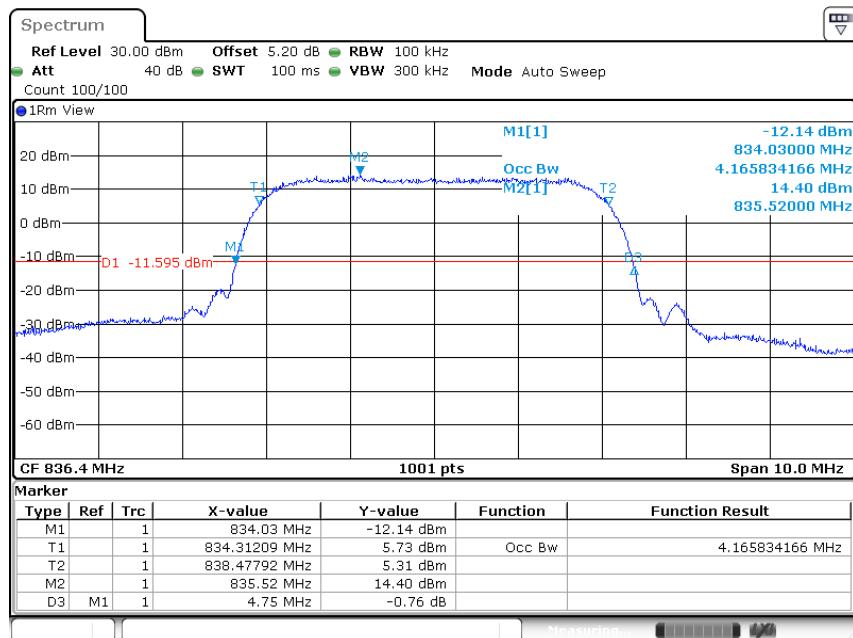
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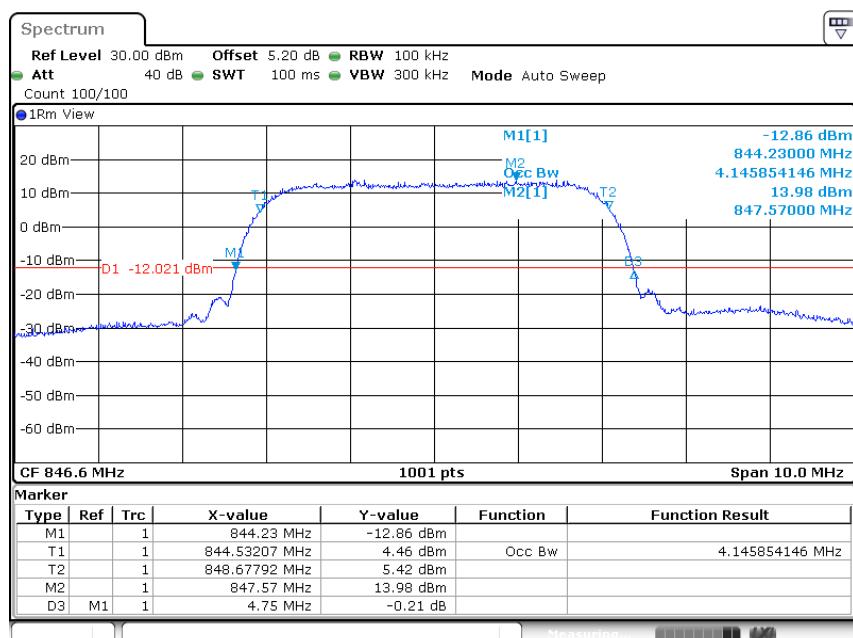
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## Band5-4182



## Band5-4233



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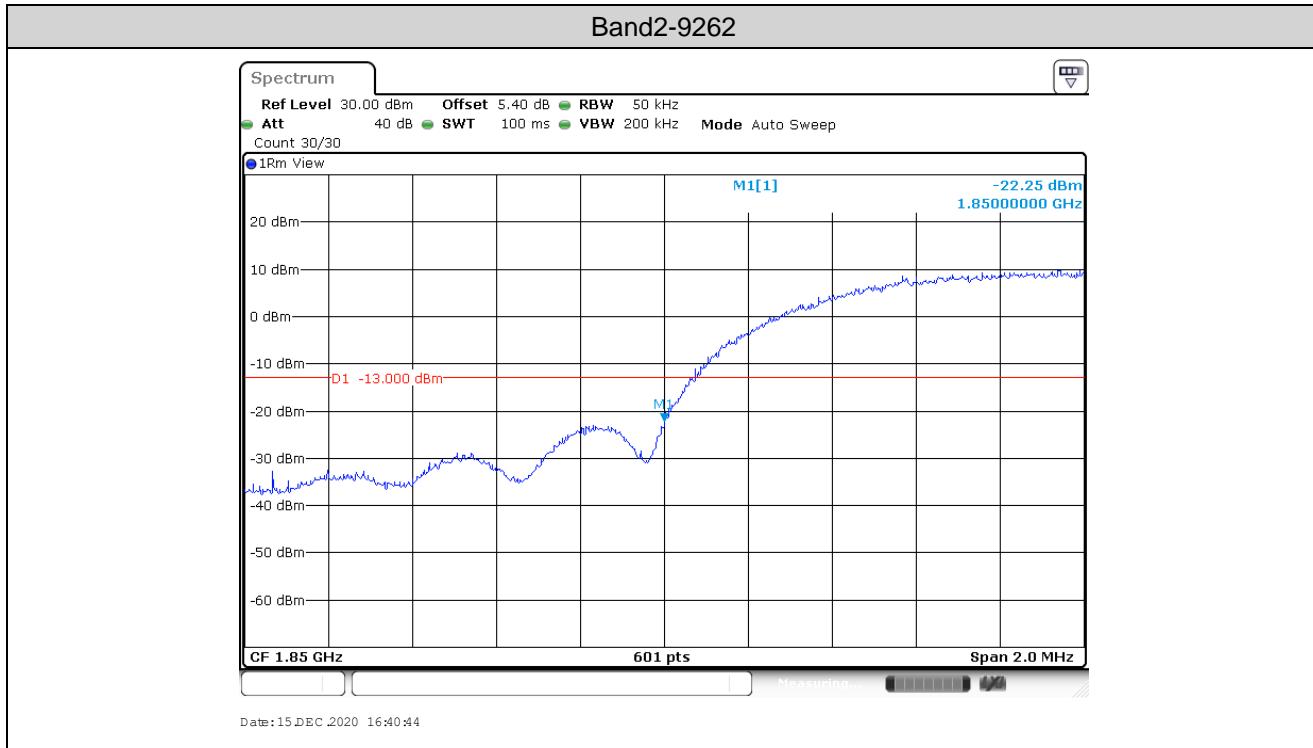
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## 5. Band Edge Compliance

### 5.1. Test Plots



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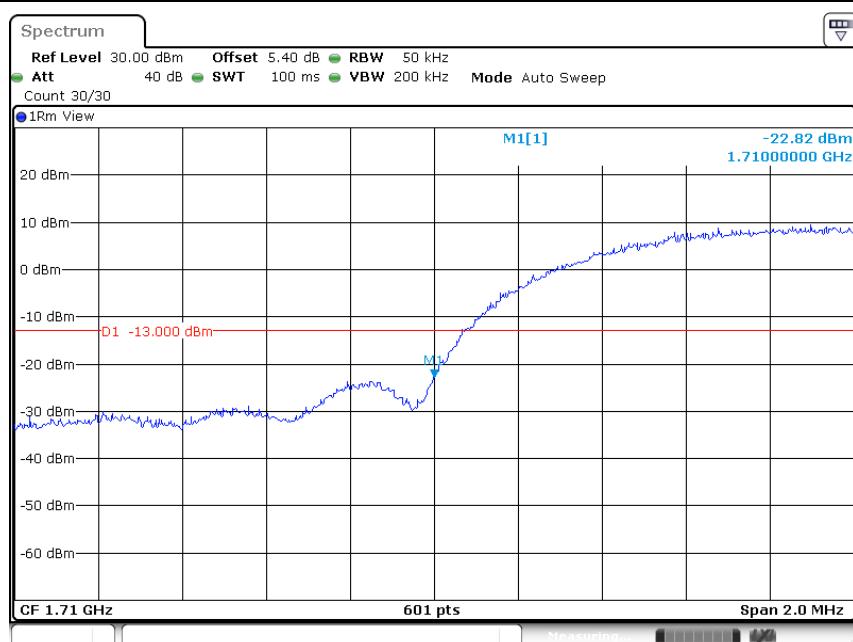
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## Band2-9538



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## Band4-1312



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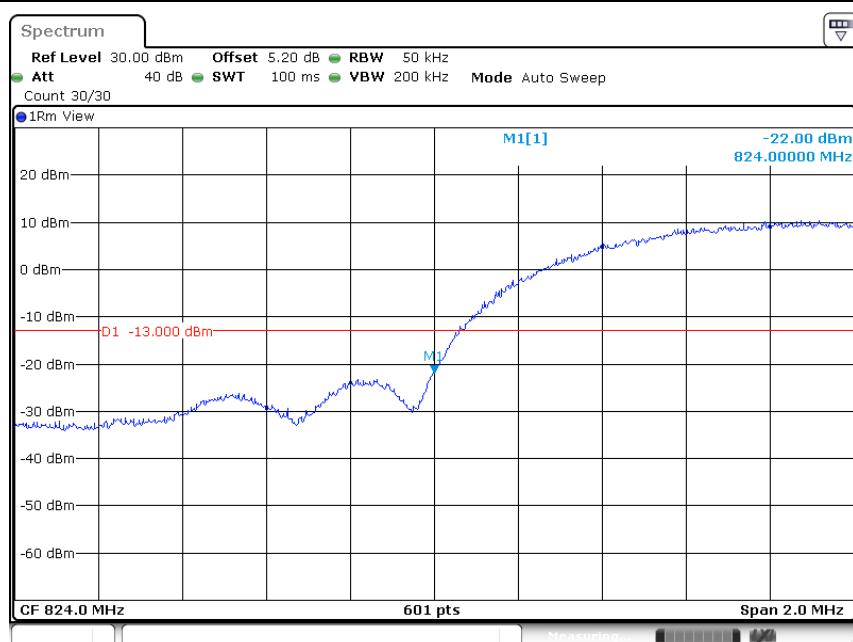


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## Band4-1513



## Band5-4132

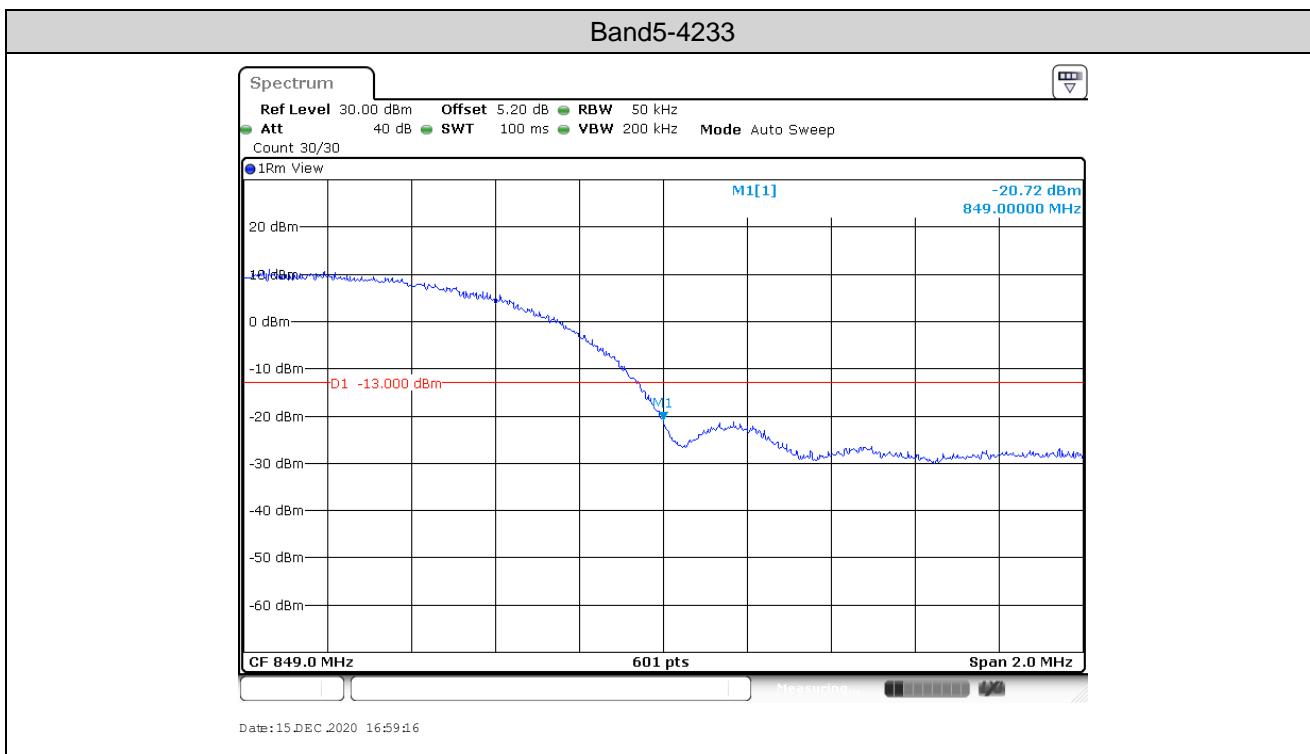


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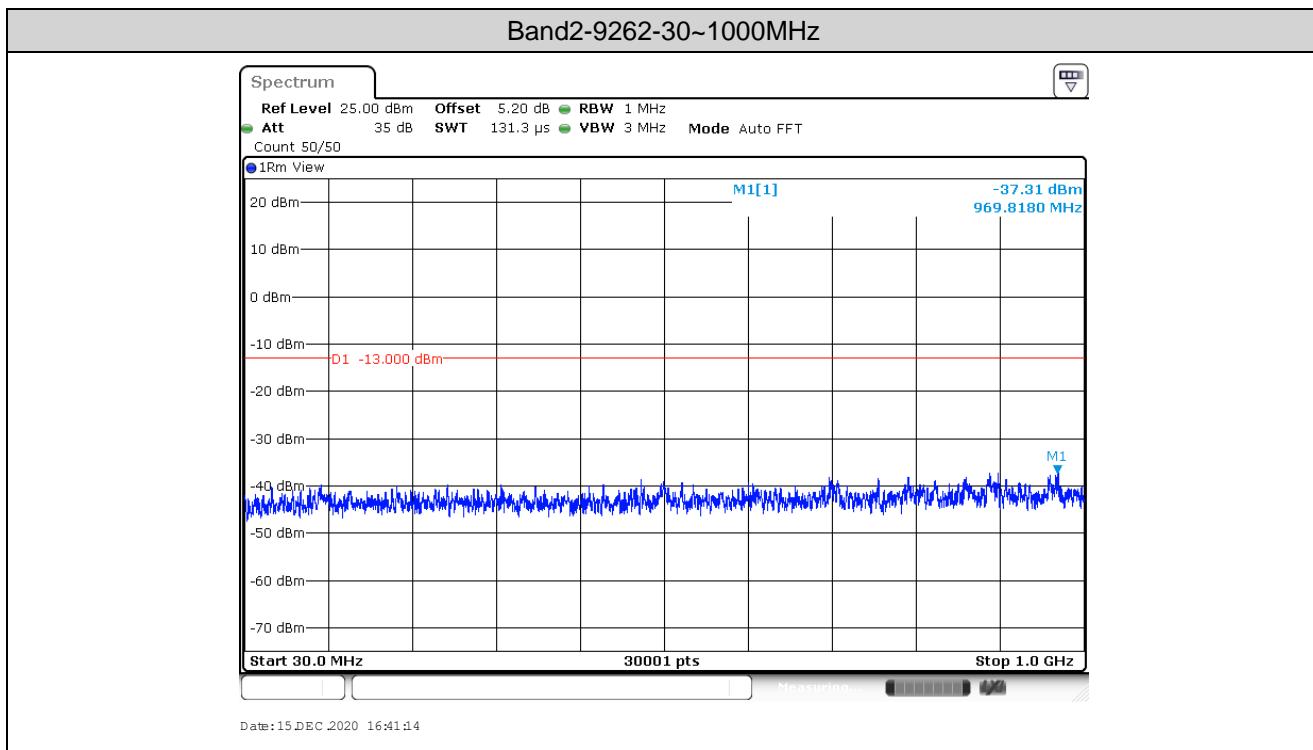
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## 6. Spurious Emission at Antenna Terminal

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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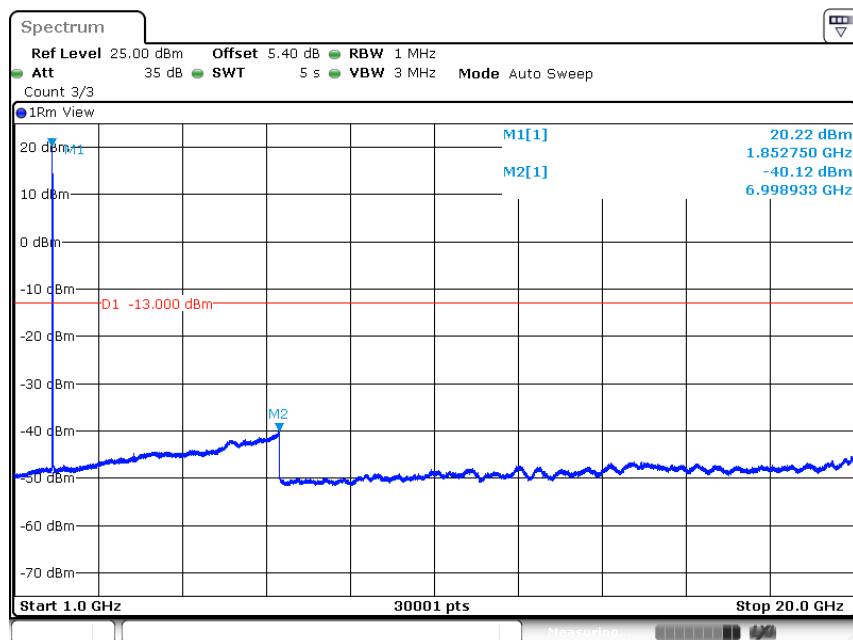
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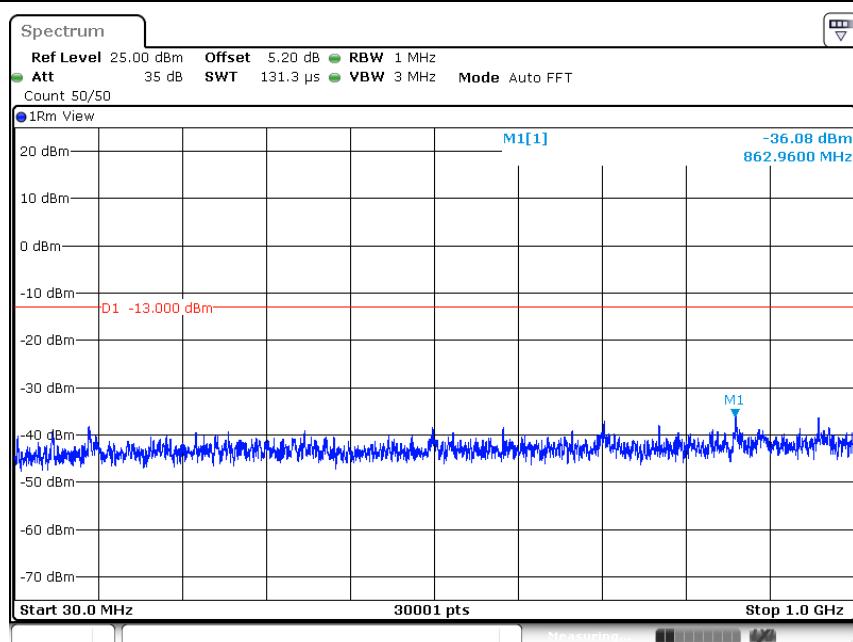
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## Band2-9262-1000~20000MHz



Date: 15 DEC 2020 16:41:40

## Band2-9400-30~1000MHz



Date: 15 DEC 2020 16:41:54

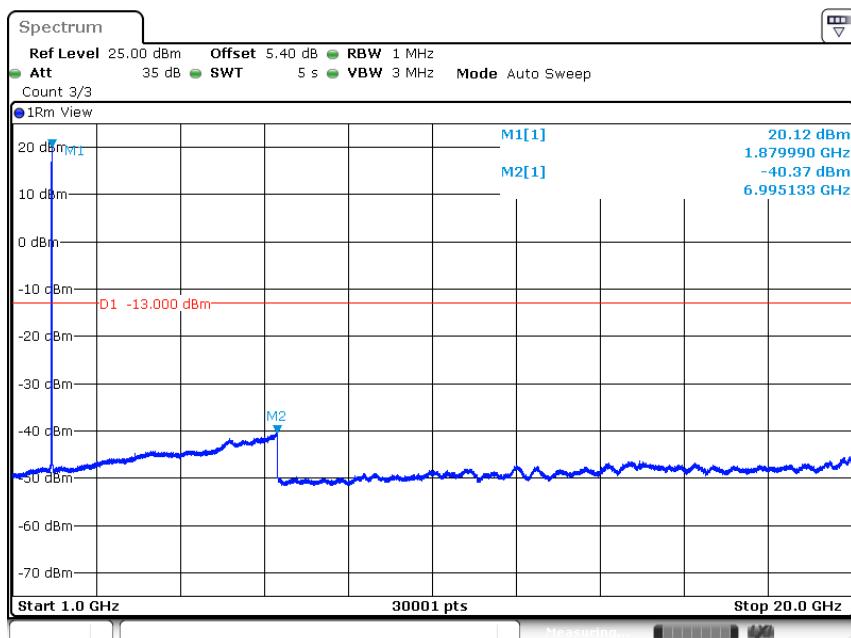
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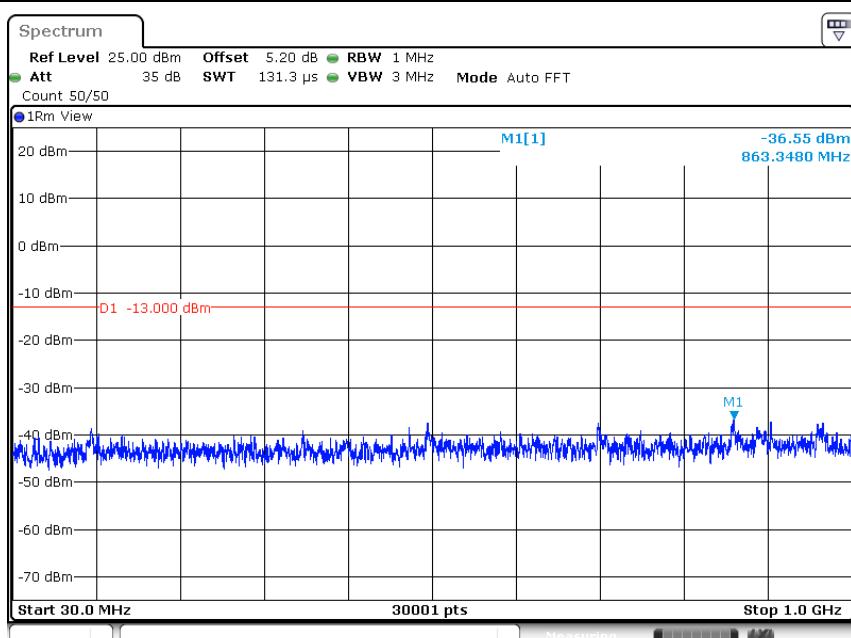
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## Band2-9400-1000~20000MHz



Date: 15 DEC 2020 16:42:20

## Band2-9538-30~1000MHz



Date: 15 DEC 2020 16:42:34

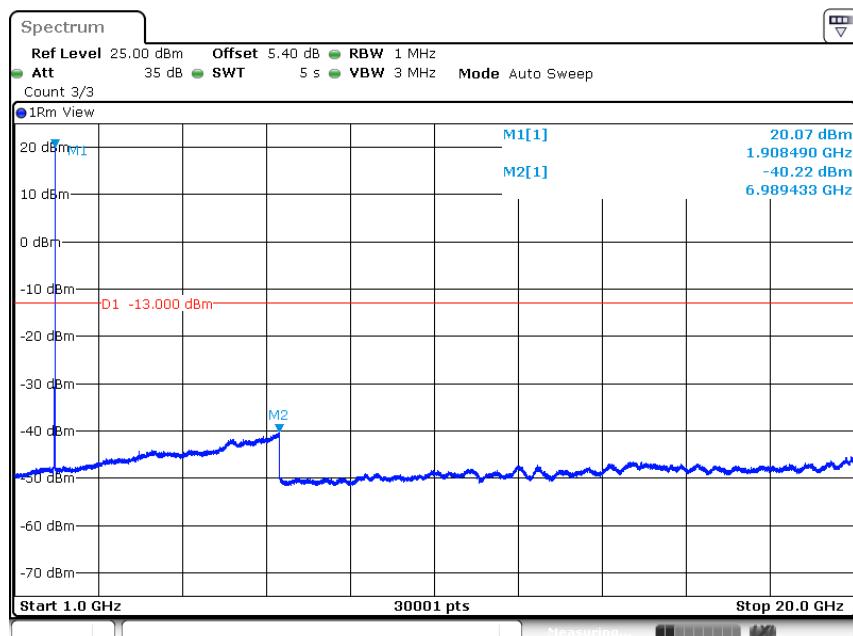
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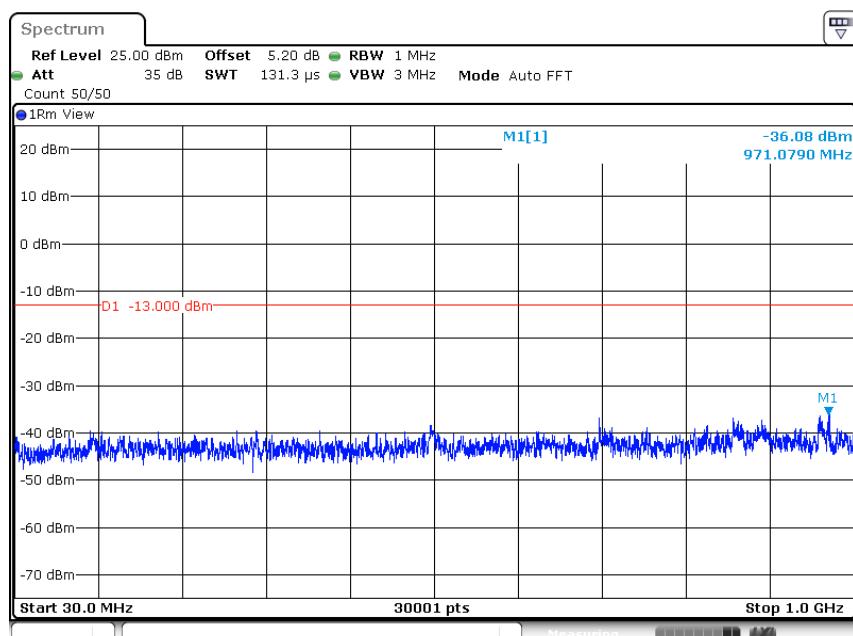
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## Band2-9538-1000~20000MHz



Date: 15 DEC 2020 16:43:00

## Band4-1312-30~1000MHz



Date: 15 DEC 2020 15:43:08

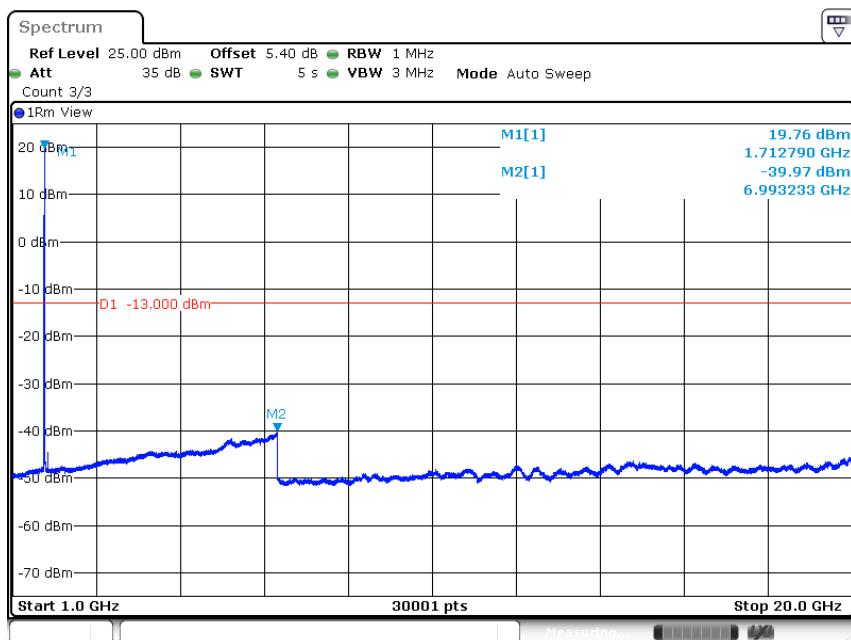
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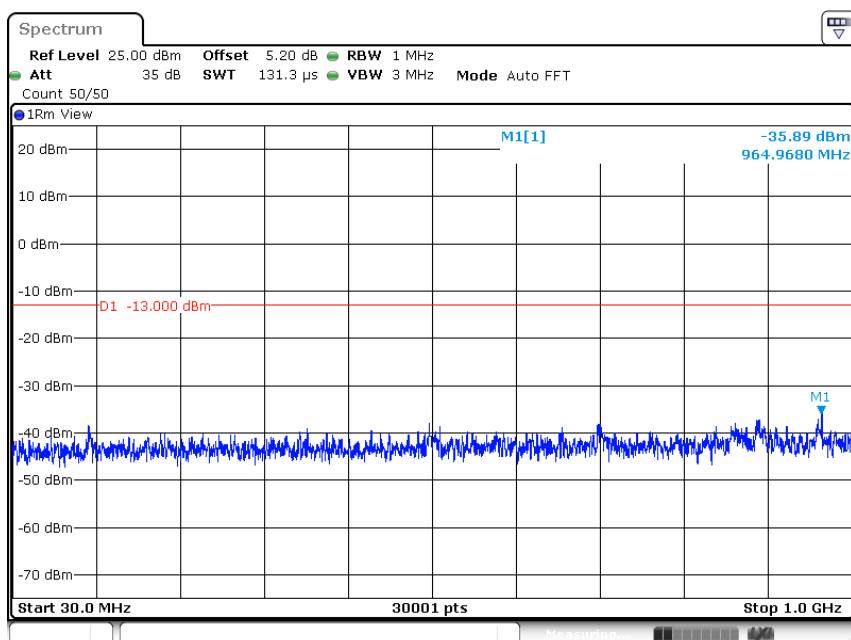
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## Band4-1312-1000~20000MHz



Date: 15 DEC 2020 15:43:34

## Band4-1413-30~1000MHz



Date: 15 DEC 2020 15:43:48

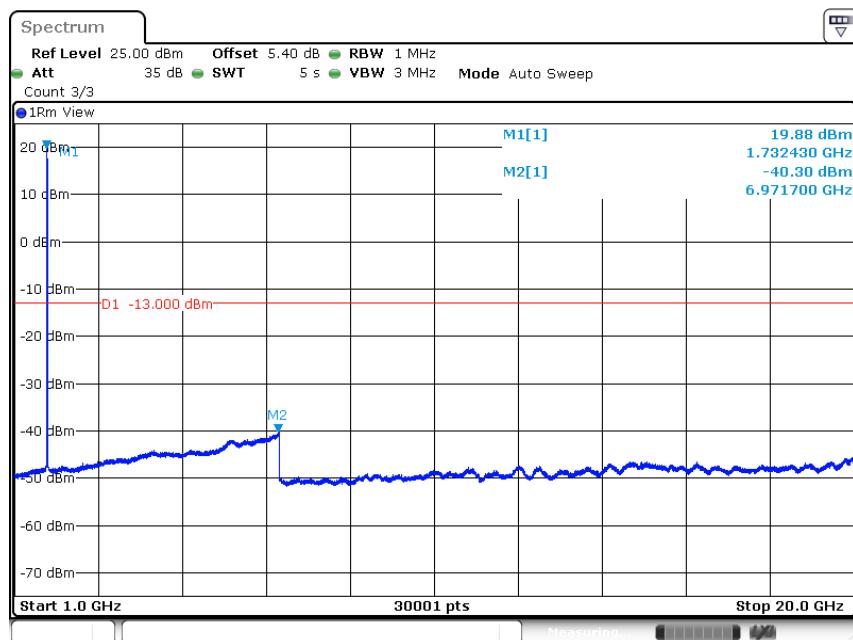
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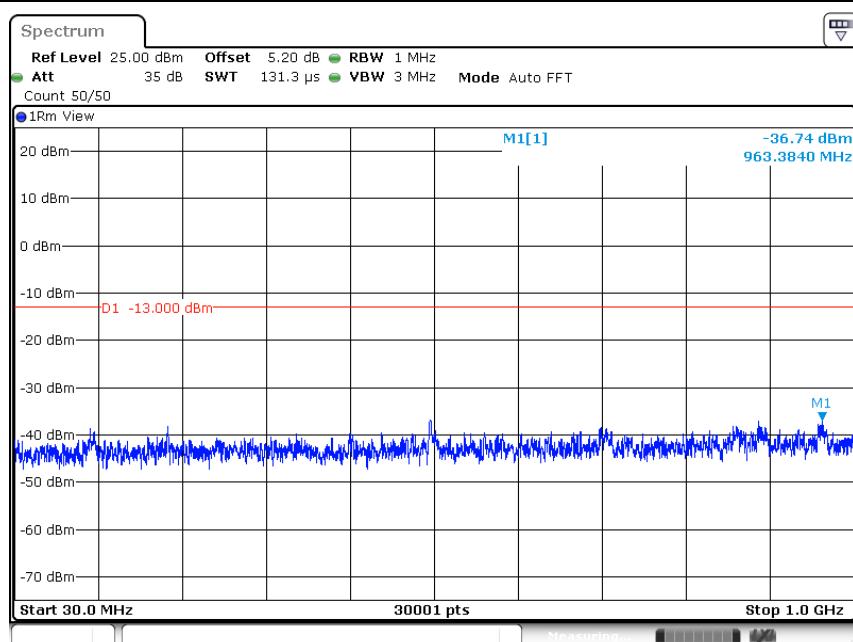


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## Band4-1413-1000~20000MHz



## Band4-1513-30~1000MHz



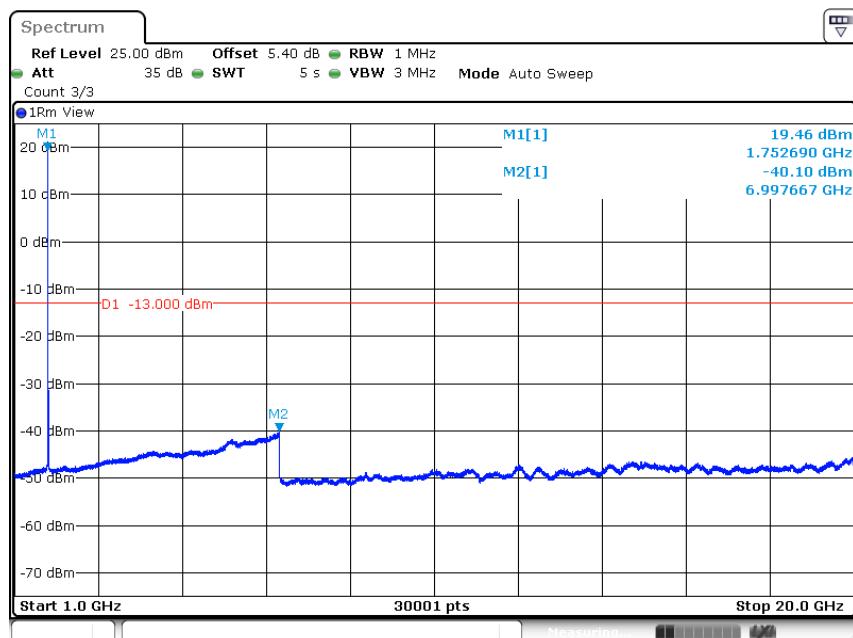
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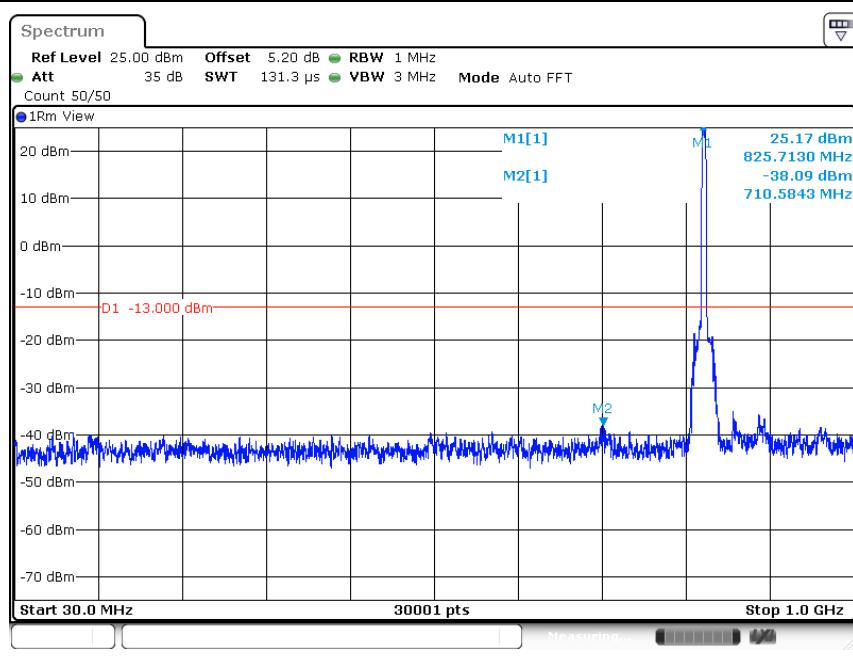


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## Band4-1513-1000~20000MHz



## Band5-4132-30~1000MHz



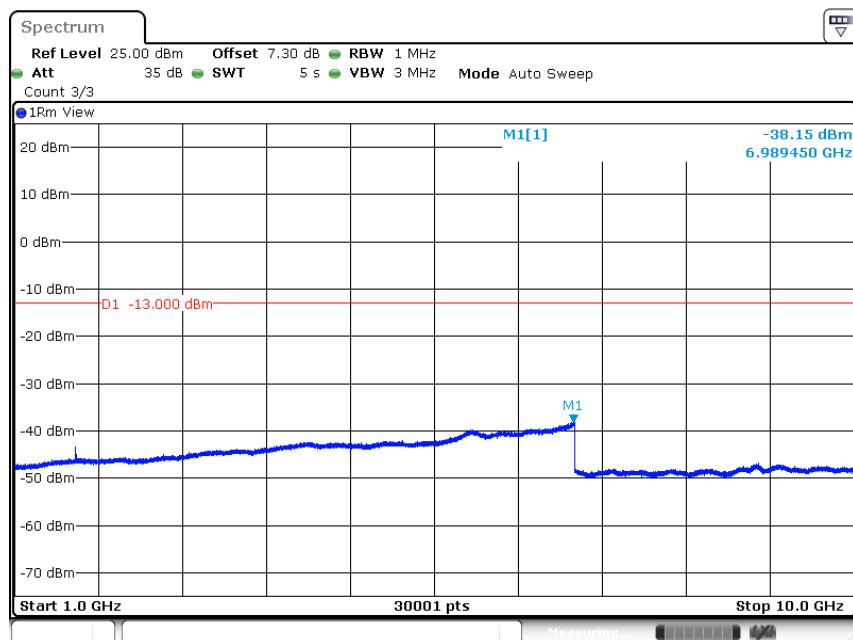
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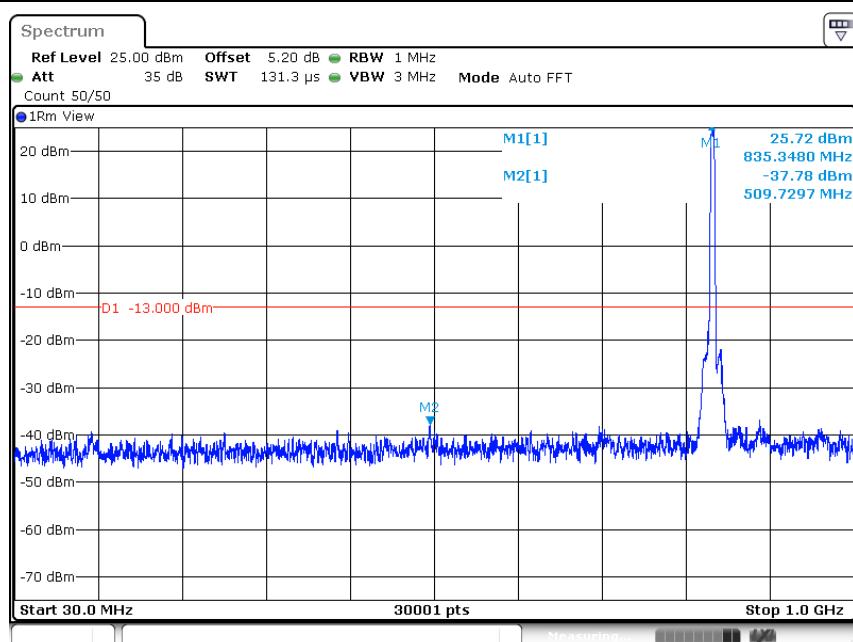
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## Band5-4132-1000~10000MHz



Date: 15 DEC 2020 16:59:56

## Band5-4182-30~1000MHz



Date: 15 DEC 2020 17:00:11

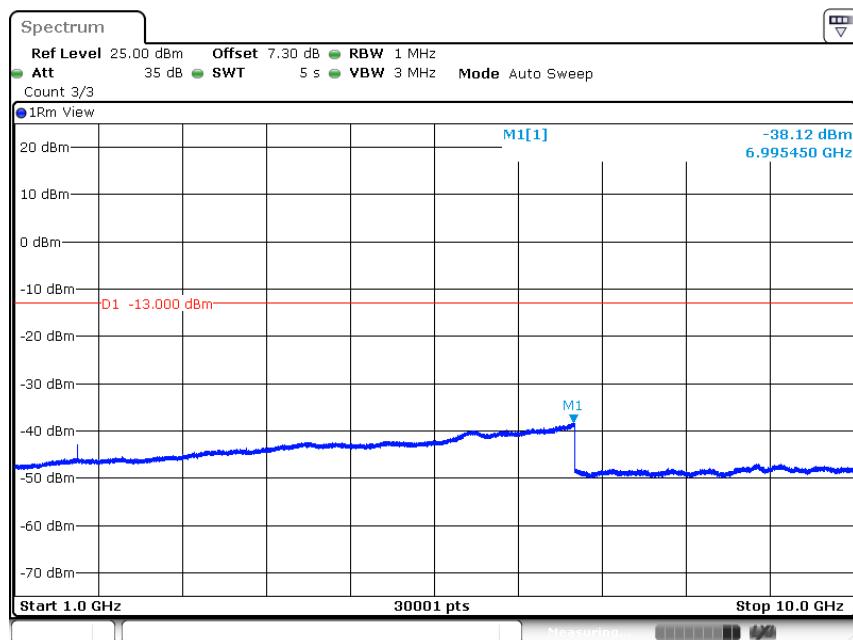
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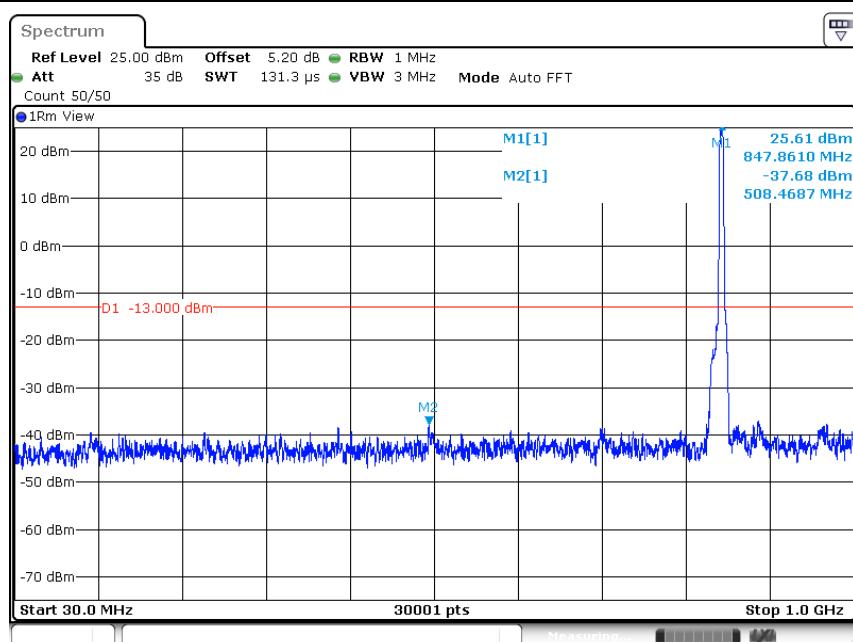


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## Band5-4182-1000~10000MHz



## Band5-4233-30~1000MHz

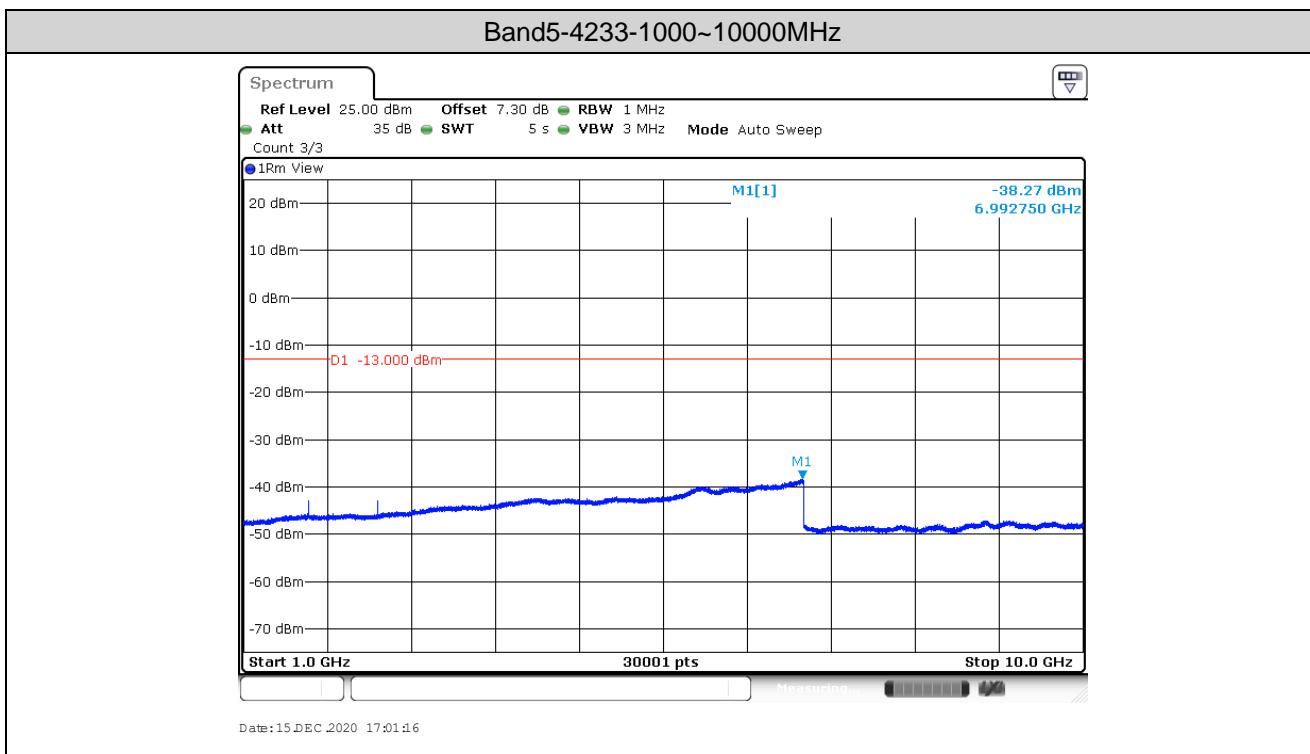


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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II(ANT4)

#### 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
63.550000	-80.00	-13.00	67.00	151	0	Vertical
104.300000	-79.29	-13.00	66.29	184	113	Vertical
341.800000	-84.22	-13.00	71.22	159	180	Vertical
5074.800000	-64.99	-13.00	51.99	233	131	Vertical
7244.175000	-63.07	-13.00	50.07	180	131	Vertical
10628.887500	-61.47	-13.00	48.47	172	120	Vertical
61.800000	-75.97	-13.00	62.97	163	95	Horizontal
104.250000	-82.45	-13.00	69.45	291	132	Horizontal
307.550000	-82.58	-13.00	69.58	293	113	Horizontal
4307.475000	-65.35	-13.00	52.35	172	44	Horizontal
6494.400000	-63.83	-13.00	50.83	179	162	Horizontal
10042.425000	-61.64	-13.00	48.64	222	180	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
63.000000	-78.50	-13.00	65.50	163	228	Vertical
104.300000	-77.23	-13.00	64.23	152	274	Vertical
305.900000	-82.52	-13.00	69.52	161	28	Vertical
3812.662500	-66.83	-13.00	53.83	153	311	Vertical
5942.062500	-64.20	-13.00	51.20	220	111	Vertical
9266.812500	-61.40	-13.00	48.40	295	332	Vertical
63.000000	-75.56	-13.00	62.56	208	163	Horizontal
104.250000	-81.38	-13.00	68.38	269	0	Horizontal
310.400000	-81.46	-13.00	68.46	207	209	Horizontal
4426.425000	-65.34	-13.00	52.34	249	58	Horizontal
6475.387500	-64.22	-13.00	51.22	273	234	Horizontal
9872.287500	-61.88	-13.00	48.88	276	224	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.350000	-79.42	-13.00	66.42	246	140	Vertical
104.300000	-79.57	-13.00	66.57	252	140	Vertical
355.500000	-83.21	-13.00	70.21	291	94	Vertical
4288.462500	-65.74	-13.00	52.74	196	66	Vertical
6489.037500	-63.67	-13.00	50.67	251	180	Vertical
10630.350000	-61.44	-13.00	48.44	204	150	Vertical
62.450000	-75.92	-13.00	62.92	218	150	Horizontal
104.250000	-81.05	-13.00	68.05	275	112	Horizontal
268.450000	-85.30	-13.00	72.30	177	180	Horizontal
4304.550000	-65.26	-13.00	52.26	211	165	Horizontal
7035.525000	-63.41	-13.00	50.41	254	80	Horizontal
9659.250000	-62.27	-13.00	49.27	185	26	Horizontal

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## 7.2. Test Band = WCDMA Band IV(ANT4)

### 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
63.000000	-79.96	-13.00	66.96	172	178	Vertical
104.300000	-77.96	-13.00	64.96	294	131	Vertical
311.350000	-84.86	-13.00	71.86	214	29	Vertical
4270.912500	-65.69	-13.00	52.69	263	57	Vertical
7870.612500	-62.28	-13.00	49.28	176	132	Vertical
10654.725000	-61.49	-13.00	48.49	180	122	Vertical
63.450000	-75.78	-13.00	62.78	220	40	Horizontal
104.300000	-82.01	-13.00	69.01	218	168	Horizontal
204.650000	-85.46	-13.00	72.46	208	159	Horizontal
4297.237500	-65.44	-13.00	52.44	206	180	Horizontal
6131.700000	-64.07	-13.00	51.07	163	180	Horizontal
9284.362500	-61.53	-13.00	48.53	217	161	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
63.950000	-79.51	-13.00	66.51	235	139	Vertical
104.300000	-78.61	-13.00	65.61	206	179	Vertical
354.050000	-83.93	-13.00	70.93	161	179	Vertical
4316.250000	-65.79	-13.00	52.79	181	14	Vertical
7061.362500	-63.05	-13.00	50.05	238	163	Vertical
10619.137500	-61.52	-13.00	48.52	176	152	Vertical
62.500000	-75.15	-13.00	62.15	293	159	Horizontal
104.250000	-81.28	-13.00	68.28	189	67	Horizontal
253.350000	-86.44	-13.00	73.44	173	180	Horizontal
4358.175000	-65.28	-13.00	52.28	293	46	Horizontal
7066.725000	-62.64	-13.00	49.64	186	35	Horizontal
10641.075000	-61.51	-13.00	48.51	157	1	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.900000	-80.11	-13.00	67.11	211	83	Vertical
104.300000	-77.02	-13.00	64.02	295	178	Vertical
332.650000	-84.90	-13.00	71.90	182	130	Vertical
4319.175000	-65.60	-13.00	52.60	205	55	Vertical
6605.062500	-64.21	-13.00	51.21	182	118	Vertical
9104.962500	-61.63	-13.00	48.63	225	33	Vertical
62.250000	-75.80	-13.00	62.80	241	22	Horizontal
104.300000	-81.80	-13.00	68.80	201	180	Horizontal
205.550000	-85.44	-13.00	72.44	263	180	Horizontal
4326.975000	-65.38	-13.00	52.38	207	143	Horizontal
7040.887500	-63.39	-13.00	50.39	244	90	Horizontal
10647.412500	-61.49	-13.00	48.49	238	68	Horizontal

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## 7.3. Test Band = WCDMA Band V(ANT1)

### 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
63.750000	-79.06	-13.00	66.06	267	180	Vertical
125.000000	-82.41	-13.00	69.41	154	11	Vertical
310.050000	-85.16	-13.00	72.16	267	56	Vertical
1707.500000	-63.82	-13.00	50.82	202	97	Vertical
2427.000000	-58.75	-13.00	45.75	157	143	Vertical
5453.587500	-65.22	-13.00	52.22	286	13	Vertical
62.400000	-75.70	-13.00	62.70	178	2	Horizontal
104.250000	-81.32	-13.00	68.32	236	123	Horizontal
206.950000	-85.31	-13.00	72.31	284	180	Horizontal
1458.500000	-65.79	-13.00	52.79	225	180	Horizontal
2425.500000	-58.79	-13.00	45.79	205	179	Horizontal
4302.600000	-65.33	-13.00	52.33	197	180	Horizontal

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### 7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.500000	-79.38	-13.00	66.38	223	179	Vertical
104.250000	-77.28	-13.00	64.28	181	122	Vertical
288.800000	-85.45	-13.00	72.45	166	31	Vertical
1653.500000	-64.48	-13.00	51.48	222	1	Vertical
2426.500000	-58.77	-13.00	45.77	202	15	Vertical
4211.437500	-66.14	-13.00	53.14	171	141	Vertical
62.550000	-75.57	-13.00	62.57	281	93	Horizontal
104.350000	-81.50	-13.00	68.50	288	111	Horizontal
208.150000	-85.90	-13.00	72.90	268	167	Horizontal
1457.000000	-65.79	-13.00	52.79	208	60	Horizontal
2387.000000	-58.70	-13.00	45.70	236	179	Horizontal
4380.112500	-65.75	-13.00	52.75	279	111	Horizontal

### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.250000	-79.68	-13.00	66.68	153	21	Vertical
125.000000	-83.25	-13.00	70.25	228	131	Vertical
309.700000	-84.74	-13.00	71.74	171	3	Vertical
1654.000000	-64.55	-13.00	51.55	270	45	Vertical
2662.000000	-57.21	-13.00	44.21	218	152	Vertical
4300.162500	-66.05	-13.00	53.05	236	140	Vertical
63.300000	-75.92	-13.00	62.92	217	178	Horizontal
134.700000	-86.72	-13.00	73.72	204	167	Horizontal
280.750000	-86.01	-13.00	73.01	197	131	Horizontal
1623.500000	-65.02	-13.00	52.02	286	173	Horizontal
2693.500000	-57.20	-13.00	44.20	212	160	Horizontal
4394.737500	-65.76	-13.00	52.76	210	66	Horizontal

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## 7.4. Test Band = WCDMA Band II(ANT3)

### 7.4.1. Test Mode =WCDMA/TM1

#### 7.4.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.600000	-79.23	-13.00	66.23	205	23	Vertical
104.250000	-79.22	-13.00	66.22	183	329	Vertical
433.950000	-79.95	-13.00	66.95	251	179	Vertical
4127.587500	-65.83	-13.00	52.83	211	57	Vertical
6499.762500	-63.39	-13.00	50.39	245	227	Vertical
9266.812500	-60.74	-13.00	47.74	198	269	Vertical
62.650000	-75.81	-13.00	62.81	204	16	Horizontal
134.900000	-82.57	-13.00	69.57	262	318	Horizontal
271.350000	-83.59	-13.00	70.59	245	290	Horizontal
3706.387500	-64.45	-13.00	51.45	178	270	Horizontal
6058.087500	-63.64	-13.00	50.64	164	152	Horizontal
9239.512500	-60.55	-13.00	47.55	257	0	Horizontal

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#### 7.4.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.800000	-79.83	-13.00	66.83	164	237	Vertical
104.250000	-79.82	-13.00	66.82	167	144	Vertical
341.150000	-84.10	-13.00	71.10	223	53	Vertical
4316.737500	-65.36	-13.00	52.36	223	79	Vertical
5638.350000	-63.41	-13.00	50.41	286	302	Vertical
9103.500000	-61.52	-13.00	48.52	249	68	Vertical
61.950000	-75.38	-13.00	62.38	282	108	Horizontal
134.900000	-82.79	-13.00	69.79	169	145	Horizontal
276.000000	-83.40	-13.00	70.40	240	281	Horizontal
3760.987500	-63.40	-13.00	50.40	225	267	Horizontal
6065.887500	-63.38	-13.00	50.38	238	35	Horizontal
9713.850000	-61.82	-13.00	48.82	206	184	Horizontal

#### 7.4.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.250000	-80.57	-13.00	67.57	252	100	Vertical
104.250000	-80.31	-13.00	67.31	184	0	Vertical
330.600000	-84.36	-13.00	71.36	201	90	Vertical
3816.562500	-65.06	-13.00	52.06	169	25	Vertical
5725.612500	-60.73	-13.00	47.73	286	302	Vertical
9217.575000	-61.33	-13.00	48.33	152	186	Vertical
62.650000	-75.41	-13.00	62.41	169	190	Horizontal
159.450000	-82.54	-13.00	69.54	152	126	Horizontal
298.900000	-83.60	-13.00	70.61	258	190	Horizontal
3817.050000	-60.24	-13.00	47.24	231	270	Horizontal
5719.275000	-63.70	-13.00	50.70	205	217	Horizontal
9249.262500	-61.13	-13.00	48.13	203	47	Horizontal

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## 7.5. Test Band = WCDMA Band IV(ANT3)

### 7.5.1. Test Mode =WCDMA/TM1

#### 7.5.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.950000	-77.48	-13.00	64.48	201	178	Vertical
104.250000	-79.85	-13.00	66.85	284	12	Vertical
317.000000	-83.25	-13.00	70.25	246	76	Vertical
4359.637500	-65.32	-13.00	52.32	153	45	Vertical
6158.025000	-63.46	-13.00	50.46	158	35	Vertical
8557.500000	-59.58	-13.00	46.58	270	119	Vertical
56.000000	-75.14	-13.00	62.14	152	179	Horizontal
89.550000	-78.85	-13.00	65.85	150	160	Horizontal
189.450000	-83.58	-13.00	70.58	224	77	Horizontal
3819.487500	-65.81	-13.00	52.81	227	149	Horizontal
6044.925000	-63.85	-13.00	50.85	223	118	Horizontal
10617.675000	-60.95	-13.00	47.95	199	76	Horizontal

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### 7.5.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.000000	-78.03	-13.00	65.03	284	180	Vertical
104.300000	-77.96	-13.00	64.96	155	180	Vertical
330.100000	-82.89	-13.00	69.89	240	85	Vertical
4298.212500	-65.37	-13.00	52.37	224	56	Vertical
8657.437500	-61.10	-13.00	48.10	175	119	Vertical
11893.462500	-60.35	-13.00	47.35	245	180	Vertical
62.650000	-75.45	-13.00	62.45	266	59	Horizontal
90.400000	-77.26	-13.00	64.26	231	160	Horizontal
195.800000	-82.03	-13.00	69.03	192	94	Horizontal
4452.750000	-65.03	-13.00	52.03	224	179	Horizontal
6190.200000	-63.44	-13.00	50.44	213	43	Horizontal
10634.737500	-61.07	-13.00	48.07	182	33	Horizontal

### 7.5.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
55.000000	-77.78	-13.00	64.78	182	180	Vertical
104.300000	-79.18	-13.00	66.18	232	12	Vertical
336.700000	-83.68	-13.00	70.68	174	123	Vertical
4427.400000	-65.05	-13.00	52.05	179	173	Vertical
6474.900000	-63.43	-13.00	50.43	207	45	Vertical
9268.762500	-61.38	-13.00	48.38	152	162	Vertical
62.700000	-75.87	-13.00	62.87	265	3	Horizontal
104.300000	-81.84	-13.00	68.84	265	3	Horizontal
190.950000	-86.07	-13.00	73.07	292	94	Horizontal
4319.175000	-64.75	-13.00	51.75	217	150	Horizontal
6042.000000	-63.78	-13.00	50.78	203	66	Horizontal
9247.800000	-61.02	-13.00	48.02	223	108	Horizontal

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## 7.6. Test Band = WCDMA Band V(ANT0)

### 7.6.1. Test Mode =WCDMA/TM1

#### 7.6.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.750000	-79.33	-13.00	66.33	174	158	Vertical
104.300000	-78.76	-13.00	65.76	264	0	Vertical
336.300000	-82.30	-13.00	69.30	190	67	Vertical
1575.000000	-65.74	-13.00	52.74	162	174	Vertical
2560.000000	-58.71	-13.00	45.71	181	7	Vertical
4399.612500	-65.48	-13.00	52.48	179	56	Vertical
62.250000	-75.05	-13.00	62.05	165	12	Horizontal
104.300000	-81.15	-13.00	68.15	274	180	Horizontal
255.650000	-85.30	-13.00	72.30	212	140	Horizontal
1473.500000	-65.40	-13.00	52.40	220	95	Horizontal
2690.000000	-57.19	-13.00	44.19	192	144	Horizontal
4341.600000	-65.36	-13.00	52.36	232	88	Horizontal

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**7.6.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
63.550000	-79.93	-13.00	66.93	201	112	Vertical
104.300000	-79.27	-13.00	66.27	240	31	Vertical
329.400000	-82.99	-13.00	69.99	172	31	Vertical
1654.500000	-64.61	-13.00	51.61	216	107	Vertical
2511.500000	-57.98	-13.00	44.98	242	93	Vertical
6058.087500	-63.71	-13.00	50.71	197	159	Vertical
62.750000	-75.70	-13.00	62.70	295	113	Horizontal
104.250000	-82.70	-13.00	69.70	283	113	Horizontal
261.400000	-84.90	-13.00	71.90	223	122	Horizontal
1516.000000	-65.37	-13.00	52.37	293	171	Horizontal
2512.000000	-57.59	-13.00	44.59	202	136	Horizontal
4366.950000	-64.86	-13.00	51.86	206	11	Horizontal

**7.6.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
65.250000	-80.22	-13.00	67.22	276	113	Vertical
104.300000	-79.38	-13.00	66.38	294	169	Vertical
330.350000	-83.01	-13.00	70.01	238	57	Vertical
1625.000000	-64.95	-13.00	51.95	152	157	Vertical
2542.500000	-54.49	-13.00	41.49	272	75	Vertical
4308.450000	-65.54	-13.00	52.54	178	78	Vertical
62.350000	-75.32	-13.00	62.32	281	65	Horizontal
134.650000	-83.55	-13.00	70.55	175	130	Horizontal
260.900000	-84.73	-13.00	71.73	205	121	Horizontal
1455.500000	-65.78	-13.00	52.78	295	158	Horizontal
2619.000000	-53.27	-13.00	40.27	282	118	Horizontal
4391.812500	-65.39	-13.00	52.39	191	141	Horizontal

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## 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
Band2	9262	VL	NT	12.26	0.006618	±2.5	PASS
Band2	9262	VN	NT	11.20	0.006046	±2.5	PASS
Band2	9262	VH	NT	12.68	0.006845	±2.5	PASS
Band2	9400	VL	NT	11.89	0.006324	±2.5	PASS
Band2	9400	VN	NT	11.99	0.006378	±2.5	PASS
Band2	9400	VH	NT	11.59	0.006165	±2.5	PASS
Band2	9538	VL	NT	10.26	0.005378	±2.5	PASS
Band2	9538	VN	NT	10.14	0.005316	±2.5	PASS
Band2	9538	VH	NT	10.50	0.005504	±2.5	PASS
Band4	1312	VL	NT	3.19	0.001863	±2.5	PASS
Band4	1312	VN	NT	3.03	0.001769	±2.5	PASS
Band4	1312	VH	NT	3.50	0.002044	±2.5	PASS
Band4	1413	VL	NT	-11.37	-0.006562	±2.5	PASS
Band4	1413	VN	NT	-11.38	-0.006568	±2.5	PASS
Band4	1413	VH	NT	-11.57	-0.006678	±2.5	PASS
Band4	1513	VL	NT	2.39	0.001364	±2.5	PASS
Band4	1513	VN	NT	2.59	0.001478	±2.5	PASS
Band4	1513	VH	NT	2.80	0.001598	±2.5	PASS
Band5	4132	VL	NT	0.22	0.000266	±2.5	PASS
Band5	4132	VN	NT	-0.01	-0.000012	±2.5	PASS
Band5	4132	VH	NT	0.24	0.000290	±2.5	PASS
Band5	4182	VL	NT	-0.11	-0.000132	±2.5	PASS
Band5	4182	VN	NT	-0.03	-0.000036	±2.5	PASS
Band5	4182	VH	NT	-0.13	-0.000155	±2.5	PASS
Band5	4233	VL	NT	0.14	0.000165	±2.5	PASS
Band5	4233	VN	NT	0.17	0.000201	±2.5	PASS
Band5	4233	VH	NT	0.15	0.000177	±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
Band2	9262	NV	-30	12.55	0.006775	±2.5	PASS
Band2	9262	NV	-20	12.56	0.006780	±2.5	PASS
Band2	9262	NV	-10	12.72	0.006867	±2.5	PASS
Band2	9262	NV	0	12.57	0.006786	±2.5	PASS
Band2	9262	NV	10	12.60	0.006802	±2.5	PASS
Band2	9262	NV	20	12.69	0.006851	±2.5	PASS
Band2	9262	NV	30	12.63	0.006818	±2.5	PASS
Band2	9262	NV	40	12.62	0.006813	±2.5	PASS
Band2	9262	NV	50	12.84	0.006932	±2.5	PASS
Band2	9400	NV	-30	11.72	0.006234	±2.5	PASS
Band2	9400	NV	-20	11.82	0.006287	±2.5	PASS
Band2	9400	NV	-10	11.67	0.006207	±2.5	PASS
Band2	9400	NV	0	11.54	0.006138	±2.5	PASS
Band2	9400	NV	10	11.82	0.006287	±2.5	PASS
Band2	9400	NV	20	11.40	0.006064	±2.5	PASS
Band2	9400	NV	30	11.65	0.006197	±2.5	PASS
Band2	9400	NV	40	11.83	0.006293	±2.5	PASS
Band2	9400	NV	50	12.03	0.006399	±2.5	PASS
Band2	9538	NV	-30	10.15	0.005321	±2.5	PASS
Band2	9538	NV	-20	10.59	0.005551	±2.5	PASS
Band2	9538	NV	-10	9.94	0.005211	±2.5	PASS
Band2	9538	NV	0	10.20	0.005347	±2.5	PASS
Band2	9538	NV	10	10.48	0.005494	±2.5	PASS
Band2	9538	NV	20	10.34	0.005420	±2.5	PASS
Band2	9538	NV	30	10.36	0.005431	±2.5	PASS
Band2	9538	NV	40	10.03	0.005258	±2.5	PASS
Band2	9538	NV	50	10.23	0.005363	±2.5	PASS
Band4	1312	NV	-30	3.73	0.002178	±2.5	PASS
Band4	1312	NV	-20	4.37	0.002552	±2.5	PASS
Band4	1312	NV	-10	4.33	0.002529	±2.5	PASS
Band4	1312	NV	0	4.52	0.002640	±2.5	PASS
Band4	1312	NV	10	4.56	0.002663	±2.5	PASS
Band4	1312	NV	20	4.79	0.002797	±2.5	PASS

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Band4	1312	NV	30	5.14	0.003002	±2.5	PASS
Band4	1312	NV	40	5.10	0.002978	±2.5	PASS
Band4	1312	NV	50	4.86	0.002838	±2.5	PASS
Band4	1413	NV	-30	-11.30	-0.006522	±2.5	PASS
Band4	1413	NV	-20	-11.41	-0.006585	±2.5	PASS
Band4	1413	NV	-10	-11.54	-0.006661	±2.5	PASS
Band4	1413	NV	0	-11.39	-0.006574	±2.5	PASS
Band4	1413	NV	10	-11.64	-0.006718	±2.5	PASS
Band4	1413	NV	20	-11.52	-0.006649	±2.5	PASS
Band4	1413	NV	30	-11.37	-0.006562	±2.5	PASS
Band4	1413	NV	40	-11.44	-0.006603	±2.5	PASS
Band4	1413	NV	50	-11.54	-0.006661	±2.5	PASS
Band4	1513	NV	-30	2.50	0.001426	±2.5	PASS
Band4	1513	NV	-20	2.45	0.001398	±2.5	PASS
Band4	1513	NV	-10	2.80	0.001598	±2.5	PASS
Band4	1513	NV	0	2.72	0.001552	±2.5	PASS
Band4	1513	NV	10	2.70	0.001541	±2.5	PASS
Band4	1513	NV	20	2.28	0.001301	±2.5	PASS
Band4	1513	NV	30	2.47	0.001409	±2.5	PASS
Band4	1513	NV	40	2.30	0.001312	±2.5	PASS
Band4	1513	NV	50	2.40	0.001369	±2.5	PASS
Band5	4132	NV	-30	0.16	0.000194	±2.5	PASS
Band5	4132	NV	-20	0.25	0.000303	±2.5	PASS
Band5	4132	NV	-10	0.26	0.000315	±2.5	PASS
Band5	4132	NV	0	0.13	0.000157	±2.5	PASS
Band5	4132	NV	10	0.23	0.000278	±2.5	PASS
Band5	4132	NV	20	0.41	0.000496	±2.5	PASS
Band5	4132	NV	30	0.23	0.000278	±2.5	PASS
Band5	4132	NV	40	0.42	0.000508	±2.5	PASS
Band5	4132	NV	50	0.26	0.000315	±2.5	PASS
Band5	4182	NV	-30	-0.26	-0.000311	±2.5	PASS
Band5	4182	NV	-20	-0.34	-0.000407	±2.5	PASS
Band5	4182	NV	-10	-0.26	-0.000311	±2.5	PASS
Band5	4182	NV	0	-0.24	-0.000287	±2.5	PASS
Band5	4182	NV	10	-0.29	-0.000347	±2.5	PASS
Band5	4182	NV	20	-0.13	-0.000155	±2.5	PASS
Band5	4182	NV	30	-0.25	-0.000299	±2.5	PASS

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Band5	4182	NV	40	-0.27	-0.000323	±2.5	PASS
Band5	4182	NV	50	-0.38	-0.000454	±2.5	PASS
Band5	4233	NV	-30	0.15	0.000177	±2.5	PASS
Band5	4233	NV	-20	0.05	0.000059	±2.5	PASS
Band5	4233	NV	-10	0.07	0.000083	±2.5	PASS
Band5	4233	NV	0	0.02	0.000024	±2.5	PASS
Band5	4233	NV	10	0.02	0.000024	±2.5	PASS
Band5	4233	NV	20	0.07	0.000083	±2.5	PASS
Band5	4233	NV	30	0.27	0.000319	±2.5	PASS
Band5	4233	NV	40	0.14	0.000165	±2.5	PASS
Band5	4233	NV	50	0.05	0.000059	±2.5	PASS

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The End

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