

# Appendix B

## WCDMA Band II & IV & V

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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result(Up Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	19.68	20.48	33.00	PASS
Band II	9400	19.78	20.58	33.00	PASS
Band II	9538	19.72	20.52	33.00	PASS
Band IV	1312	18.75	19.55	30.00	PASS
Band IV	1413	18.78	19.58	30.00	PASS
Band IV	1513	18.72	19.52	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.25	22.9	38.45	PASS
Band V	4182	23.35	23	38.45	PASS
Band V	4233	23.27	22.92	38.45	PASS

### 1.2. Test Result(Down Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.41	23.91	33.00	PASS
Band II	9400	23.59	24.09	33.00	PASS
Band II	9538	23.50	24	33.00	PASS
Band IV	1312	23.40	23.9	30.00	PASS
Band IV	1413	23.41	23.91	30.00	PASS
Band IV	1513	23.31	23.81	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.62	23.77	38.45	PASS
Band V	4182	23.76	23.91	38.45	PASS
Band V	4233	23.66	23.81	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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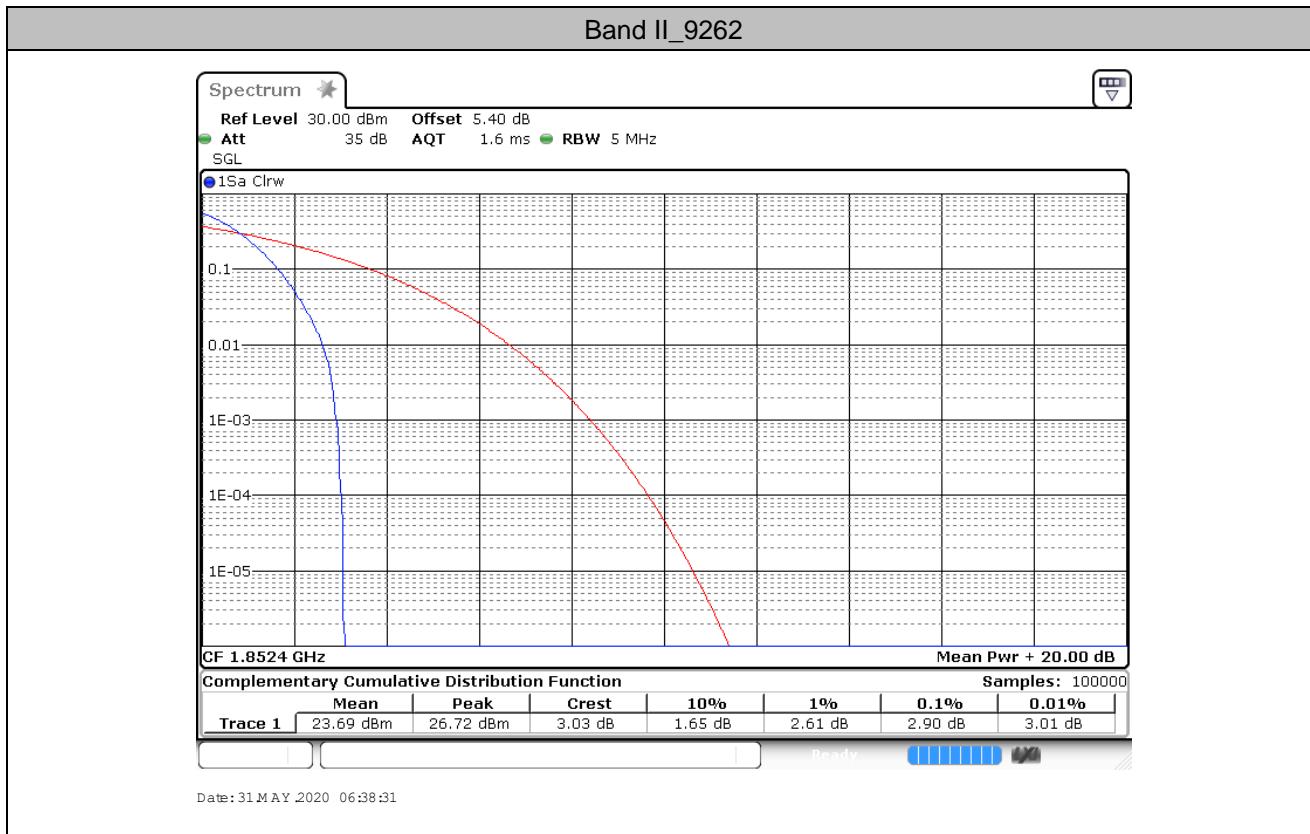
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.90	13	PASS
Band II	9400	2.93	13	PASS
Band II	9538	3.04	13	PASS
Band IV	1312	2.93	13	PASS
Band IV	1413	2.99	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	2.90	13	PASS
Band V	4182	2.99	13	PASS
Band V	4233	3.16	13	PASS

### 2.2. Test Plots

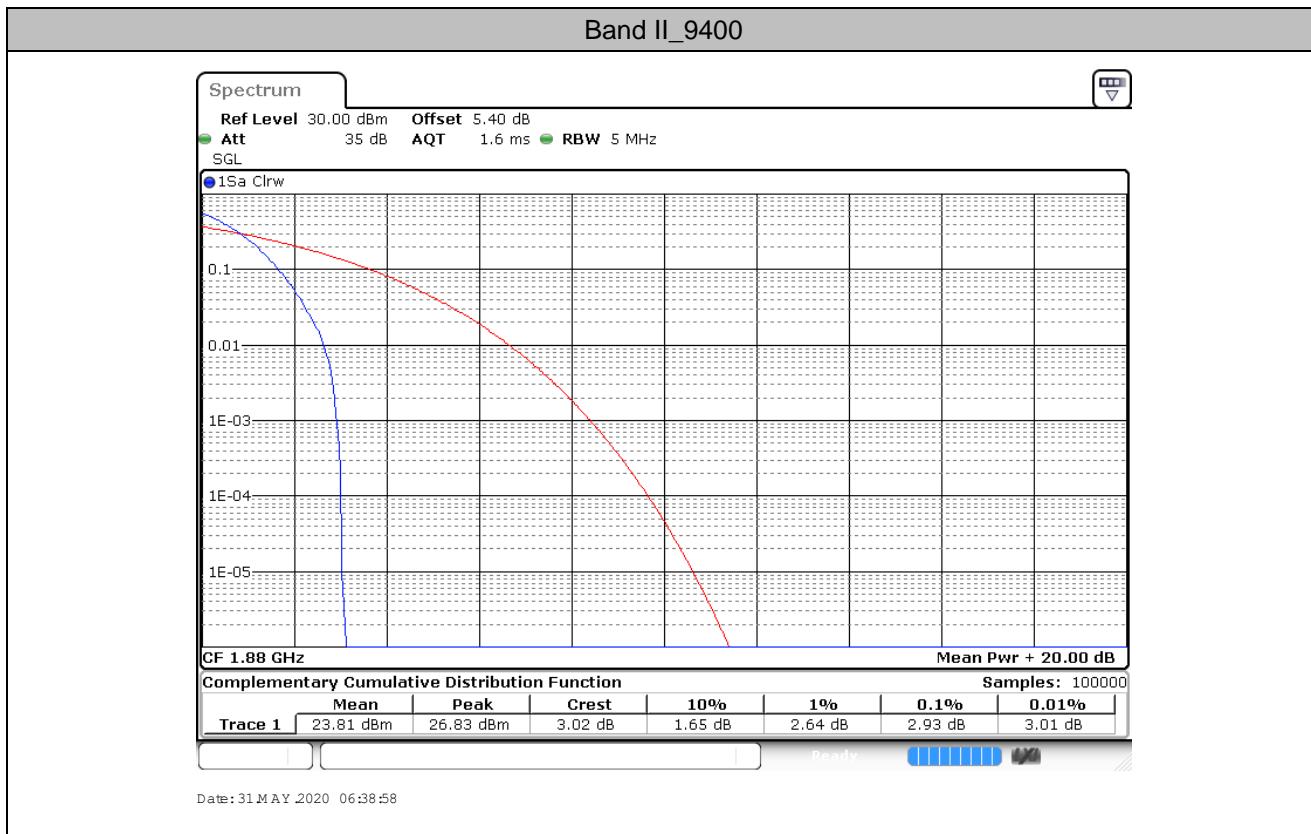


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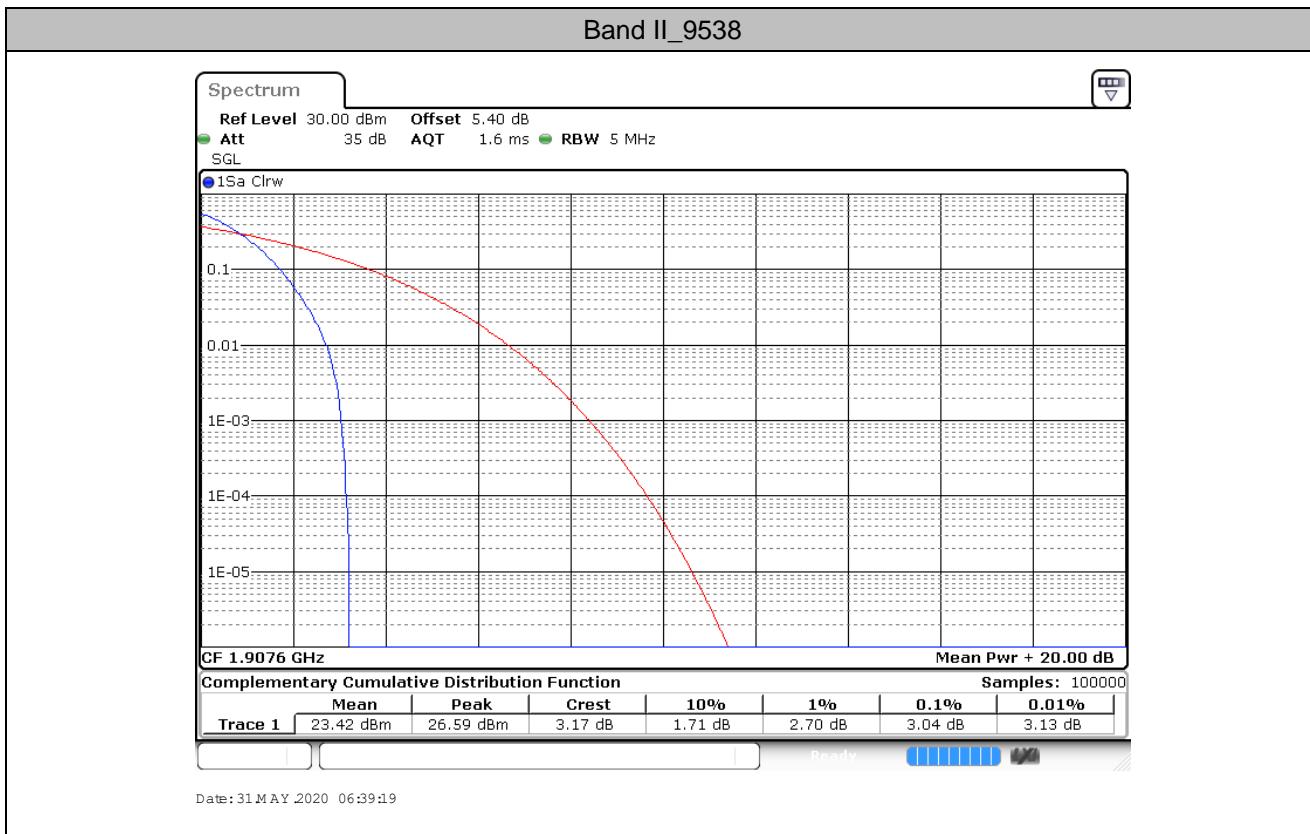


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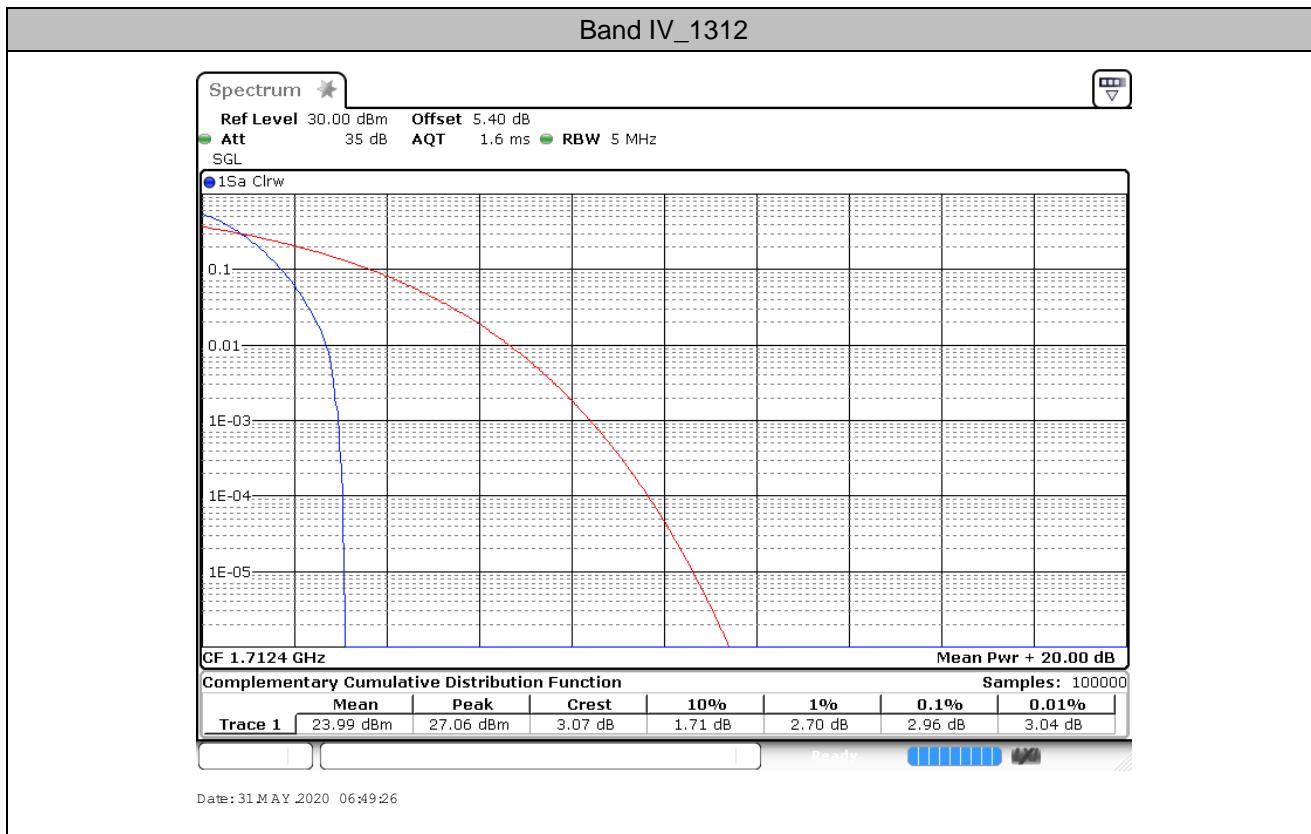


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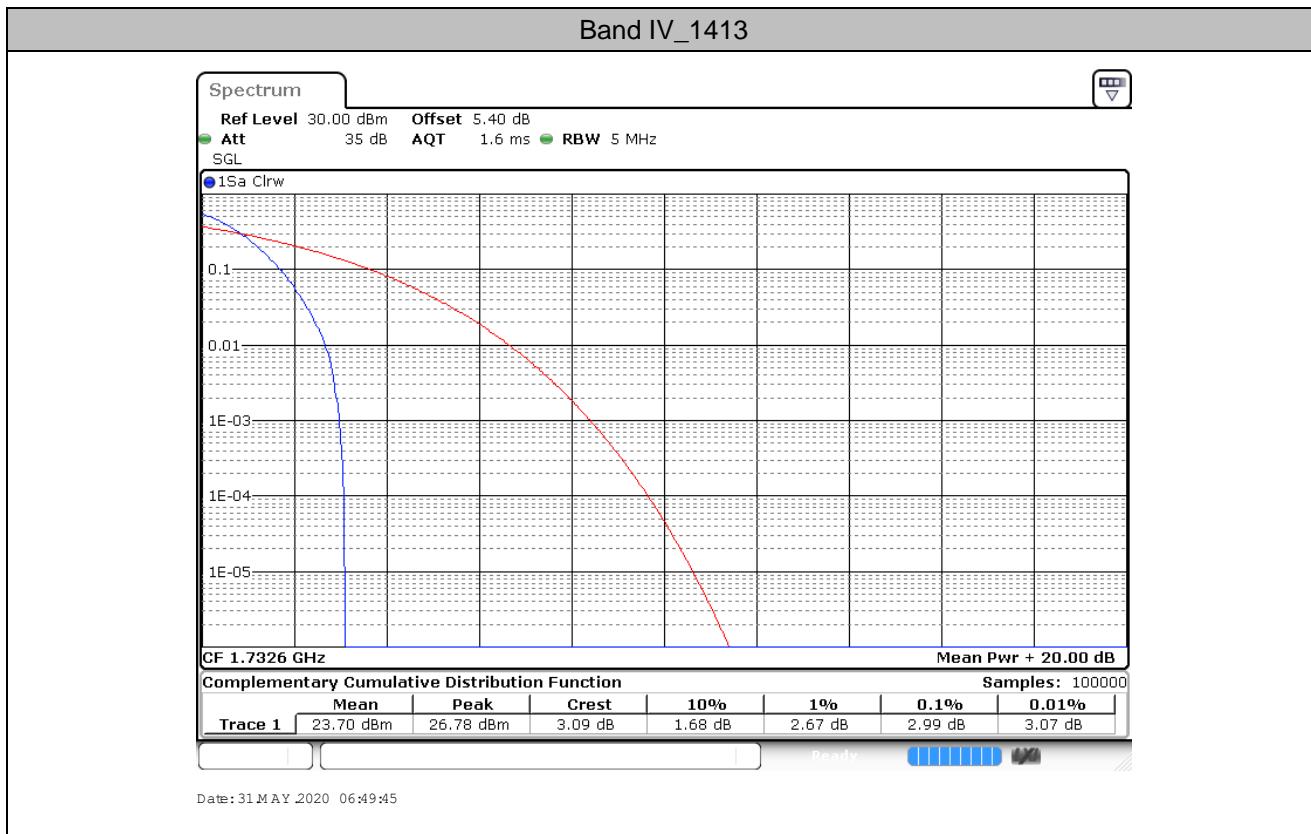


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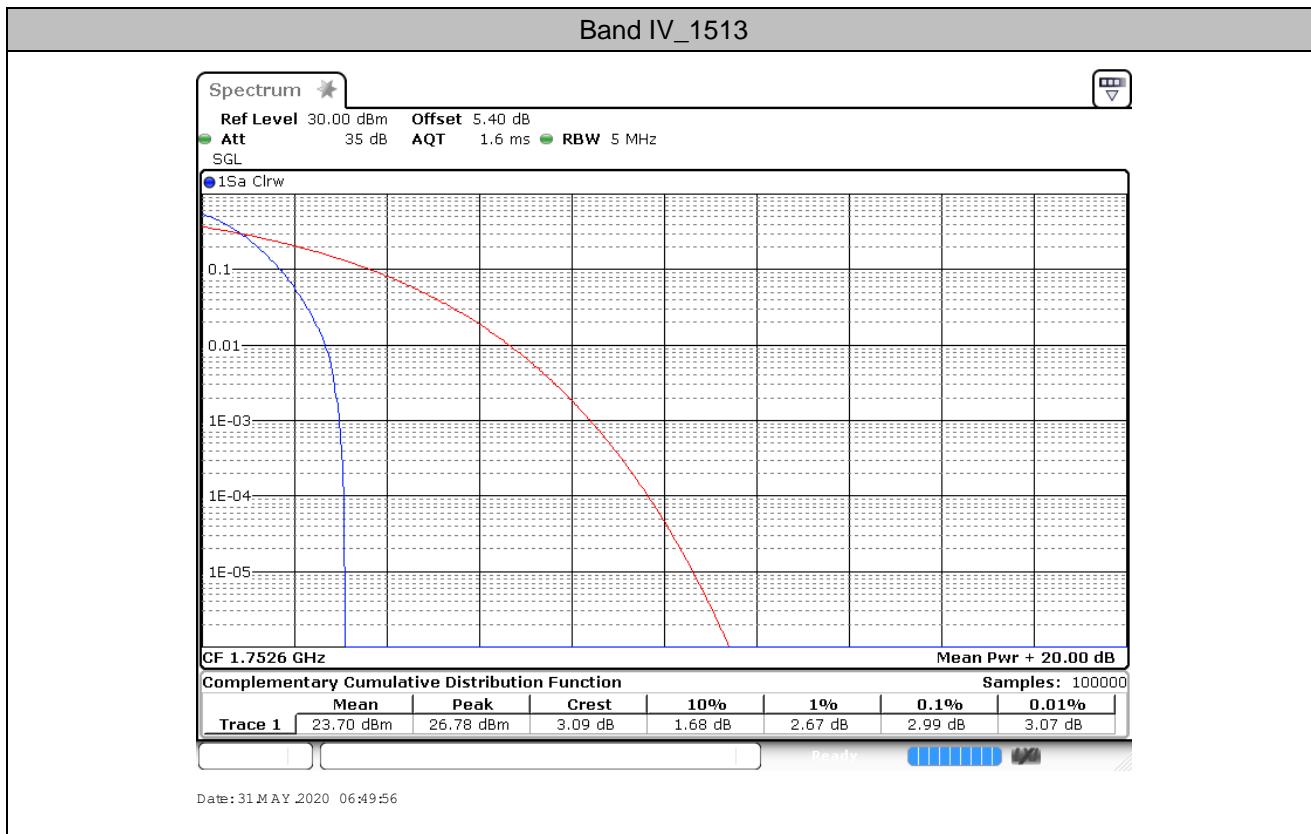
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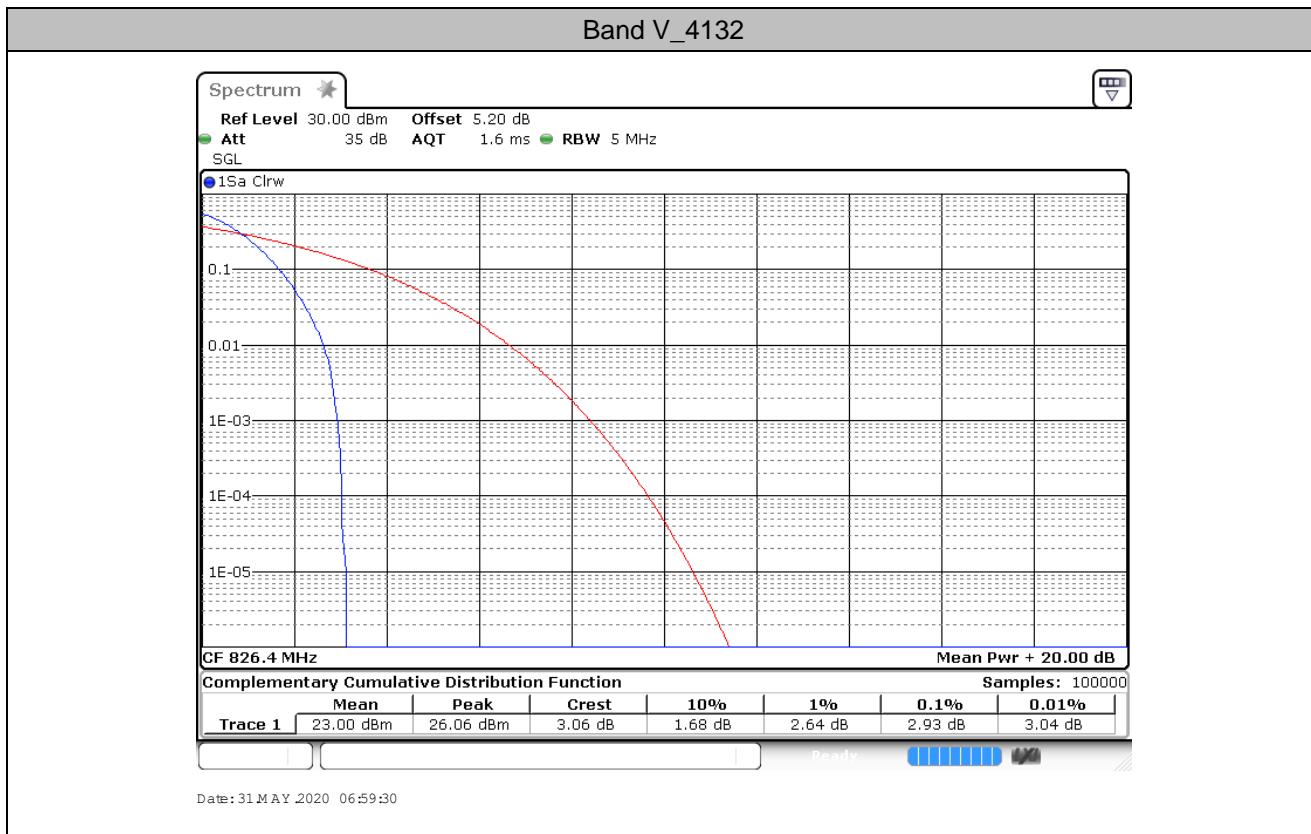
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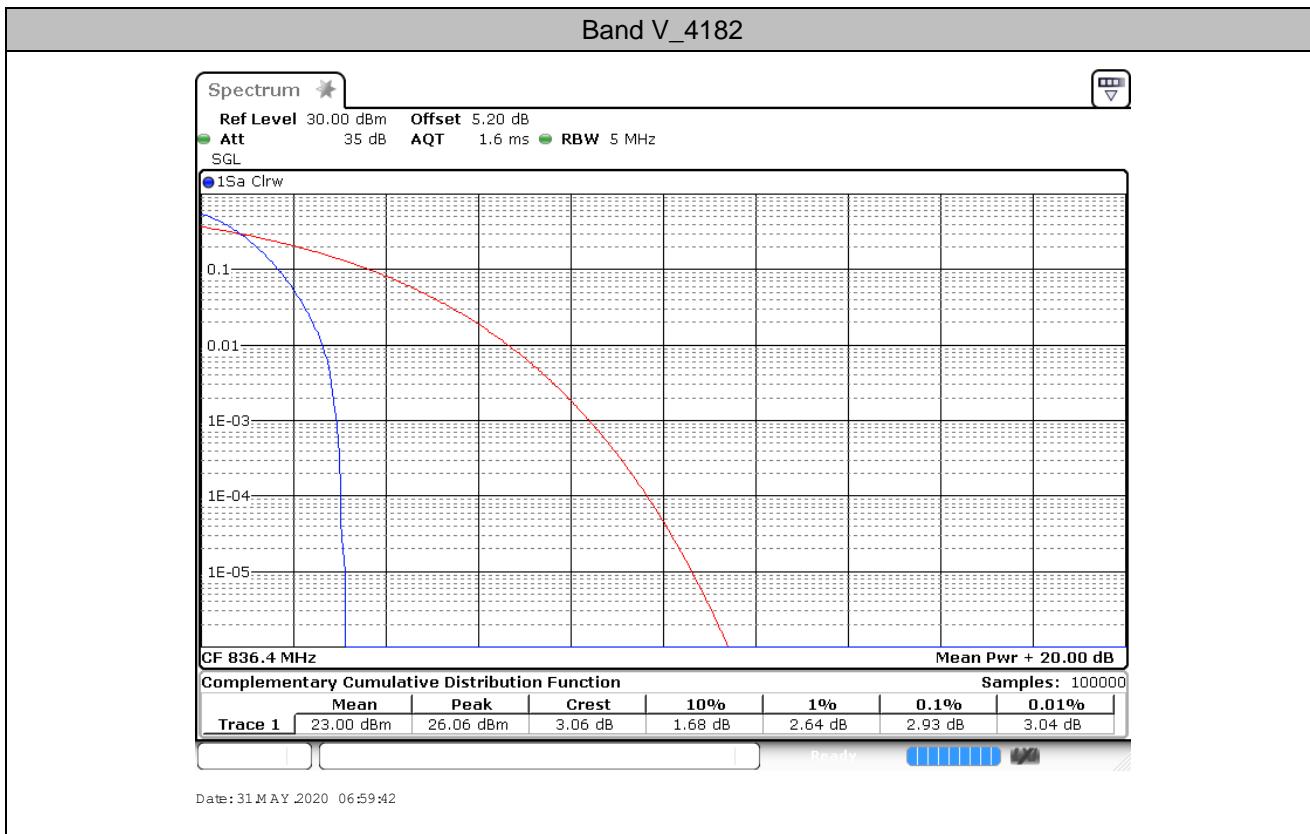
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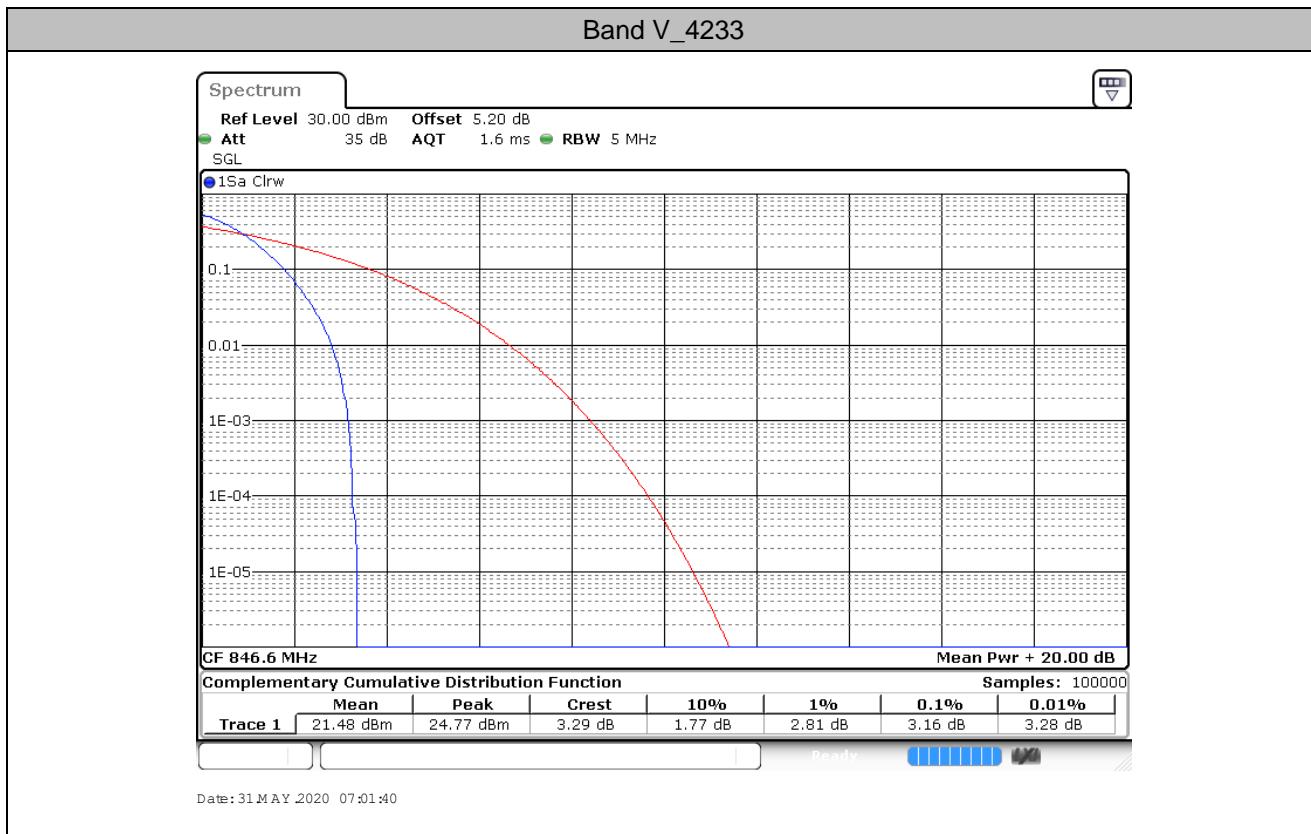
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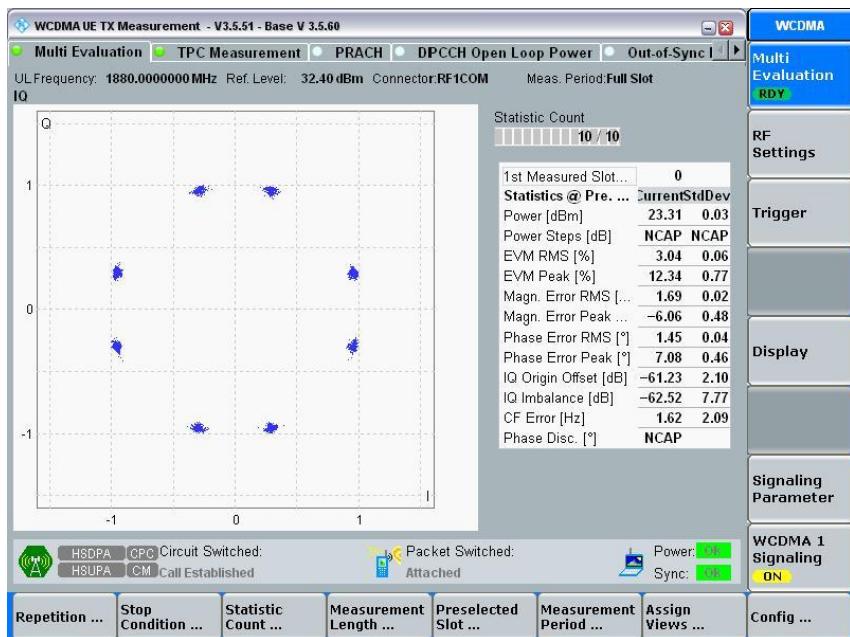
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### 3. Modulation Characteristics

#### 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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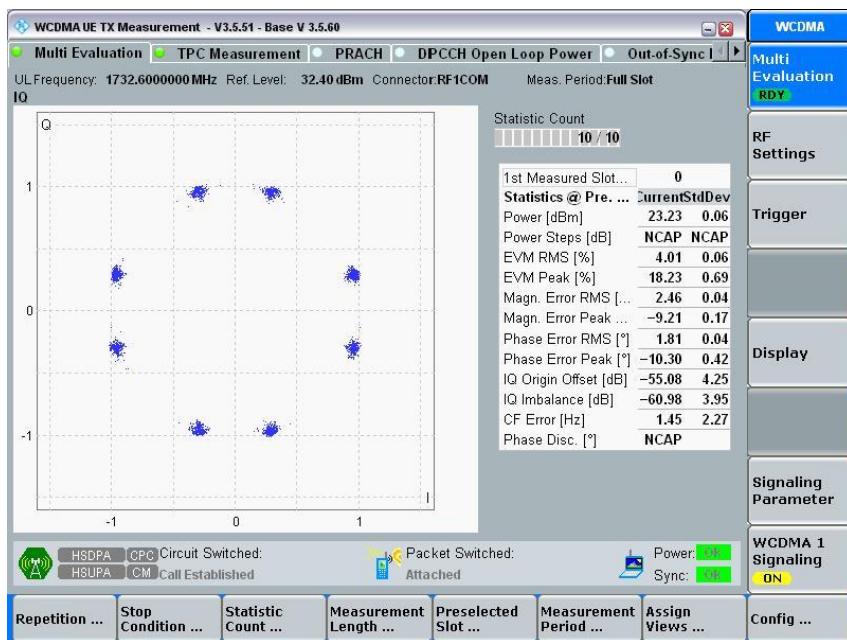


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## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH



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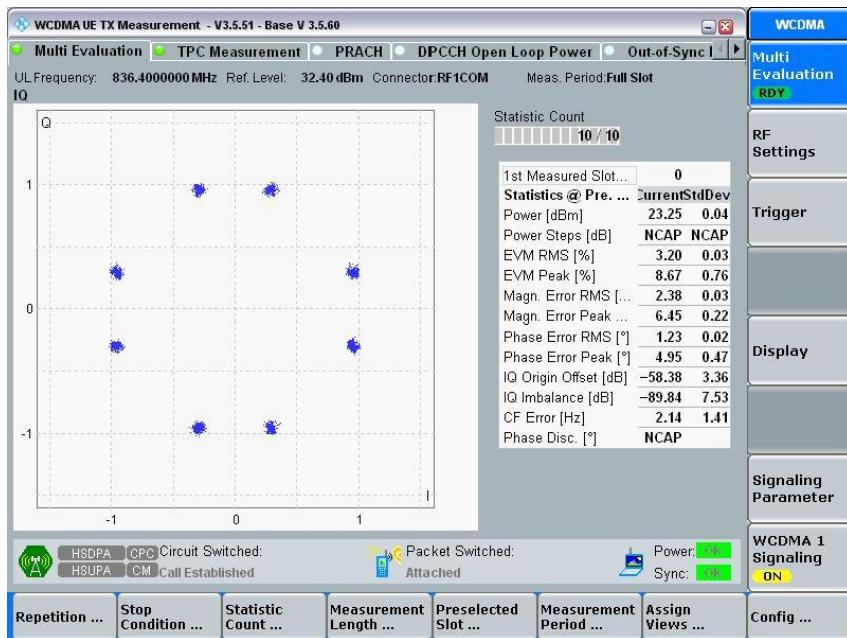
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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



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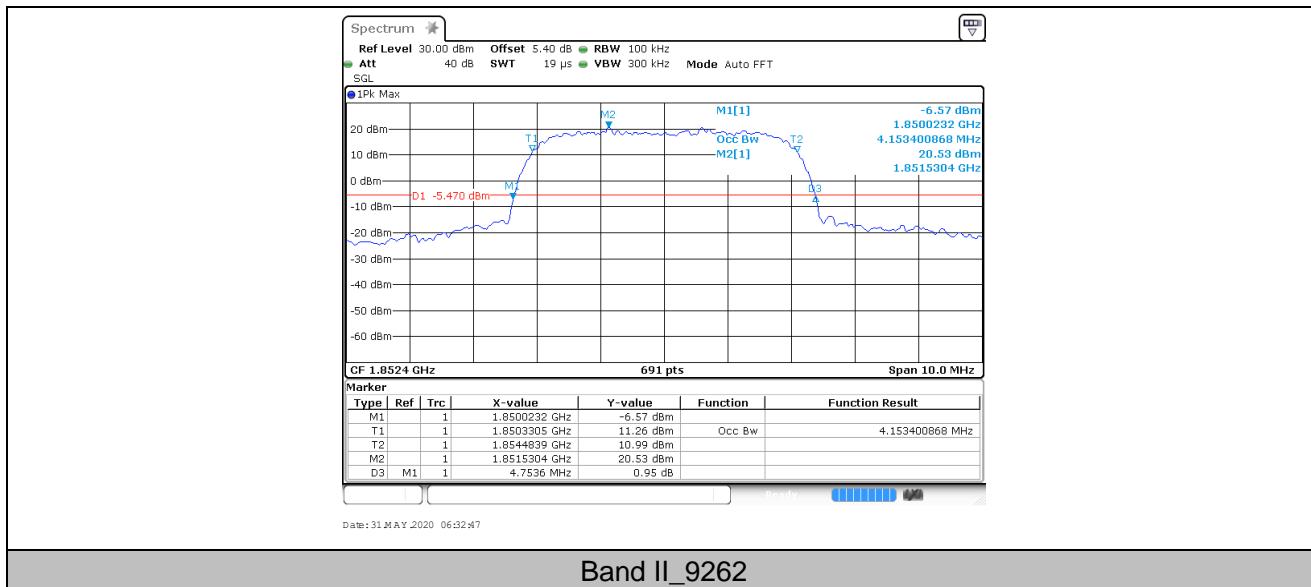


## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

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

### 4.2. Test Plots



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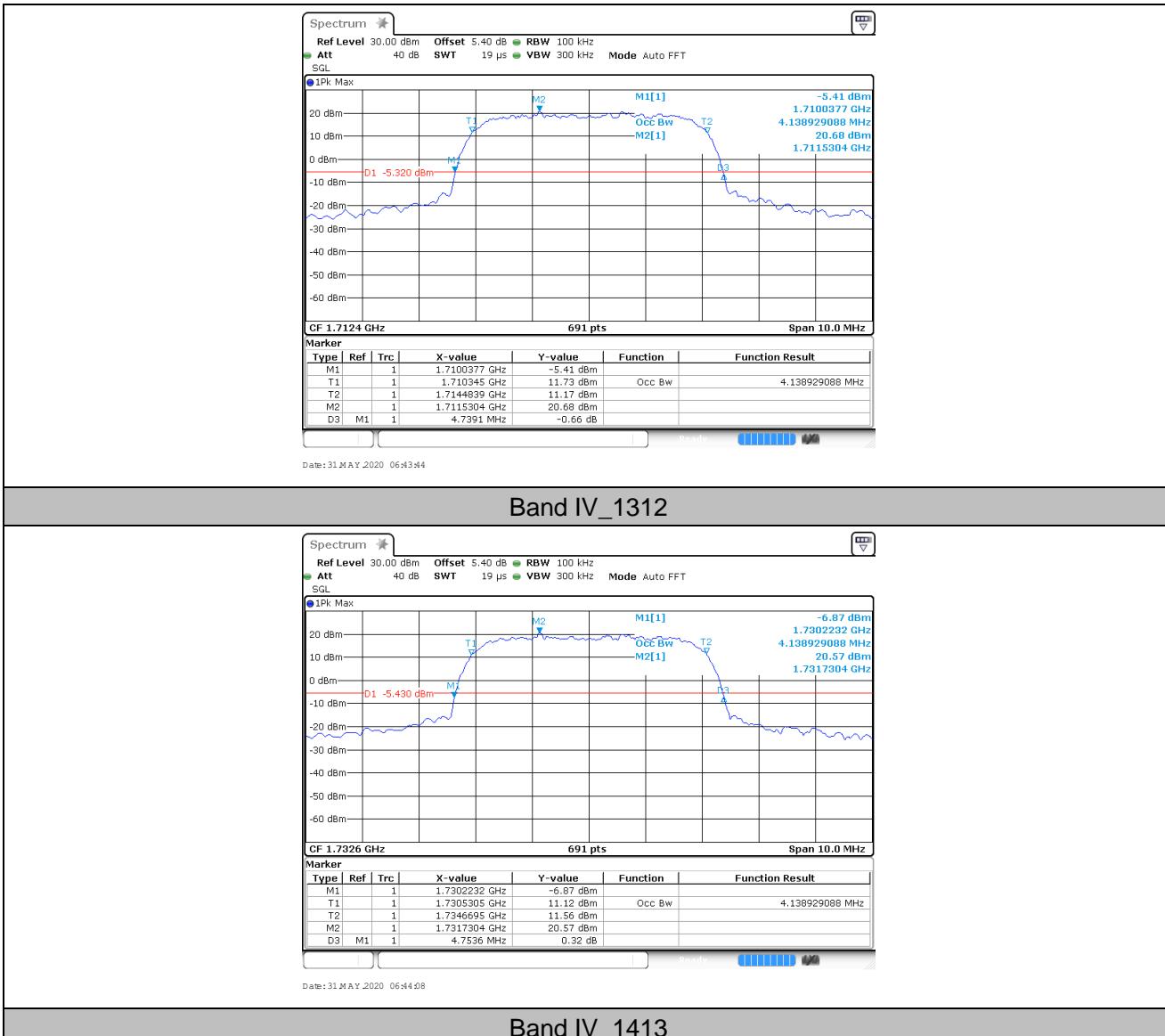


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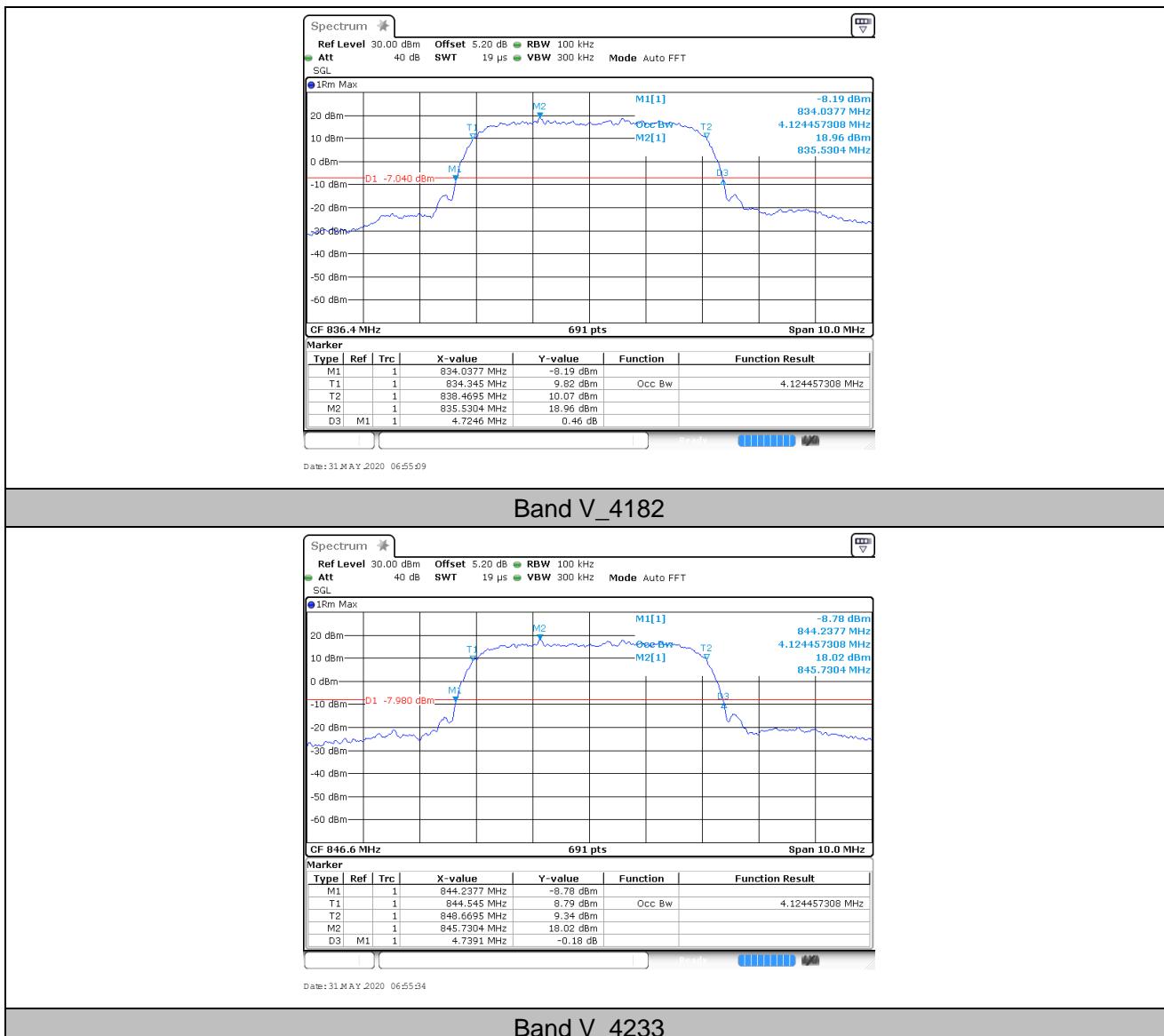


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## 5. Band Edge Compliance

### 5.1. Test Plots



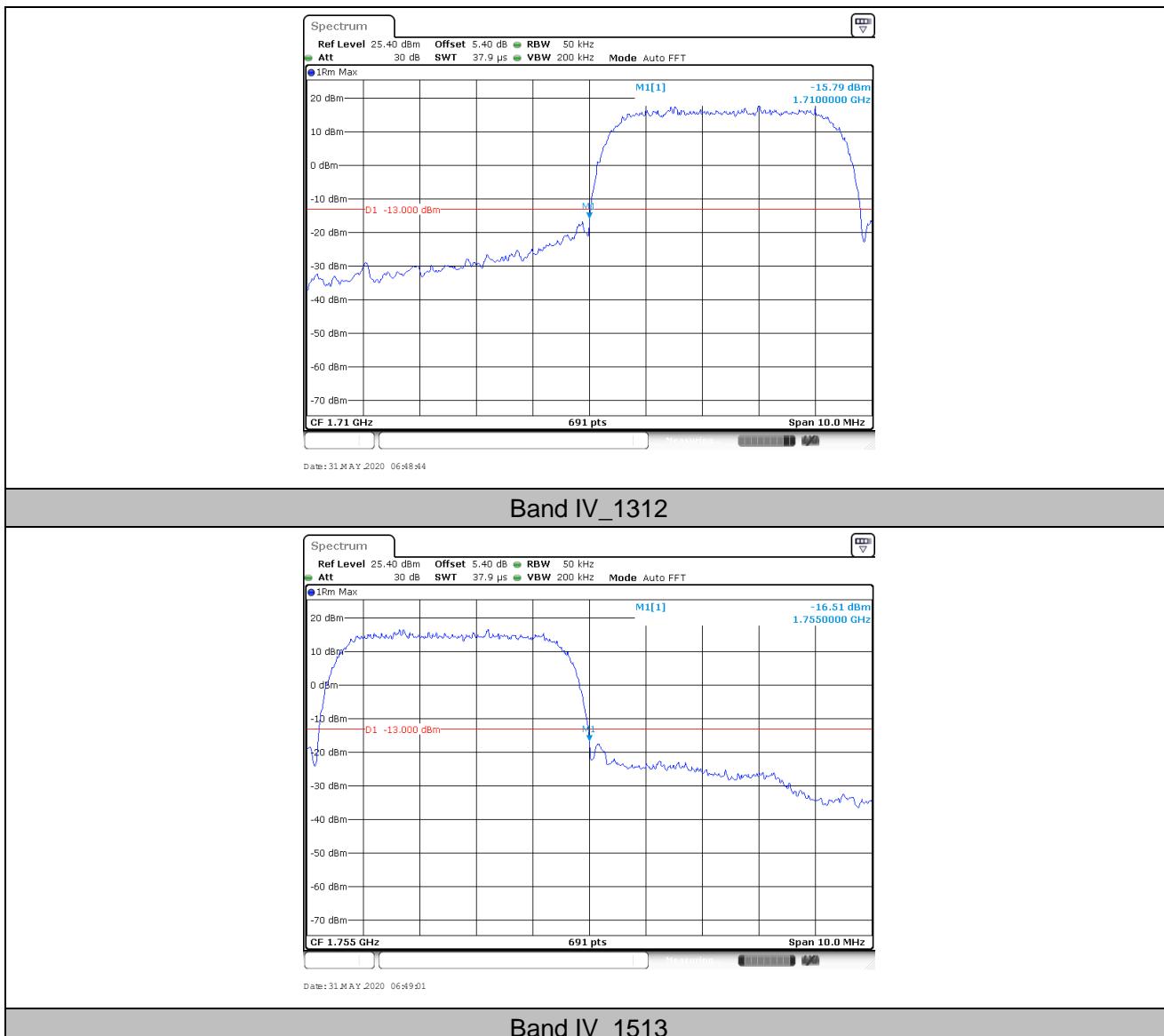
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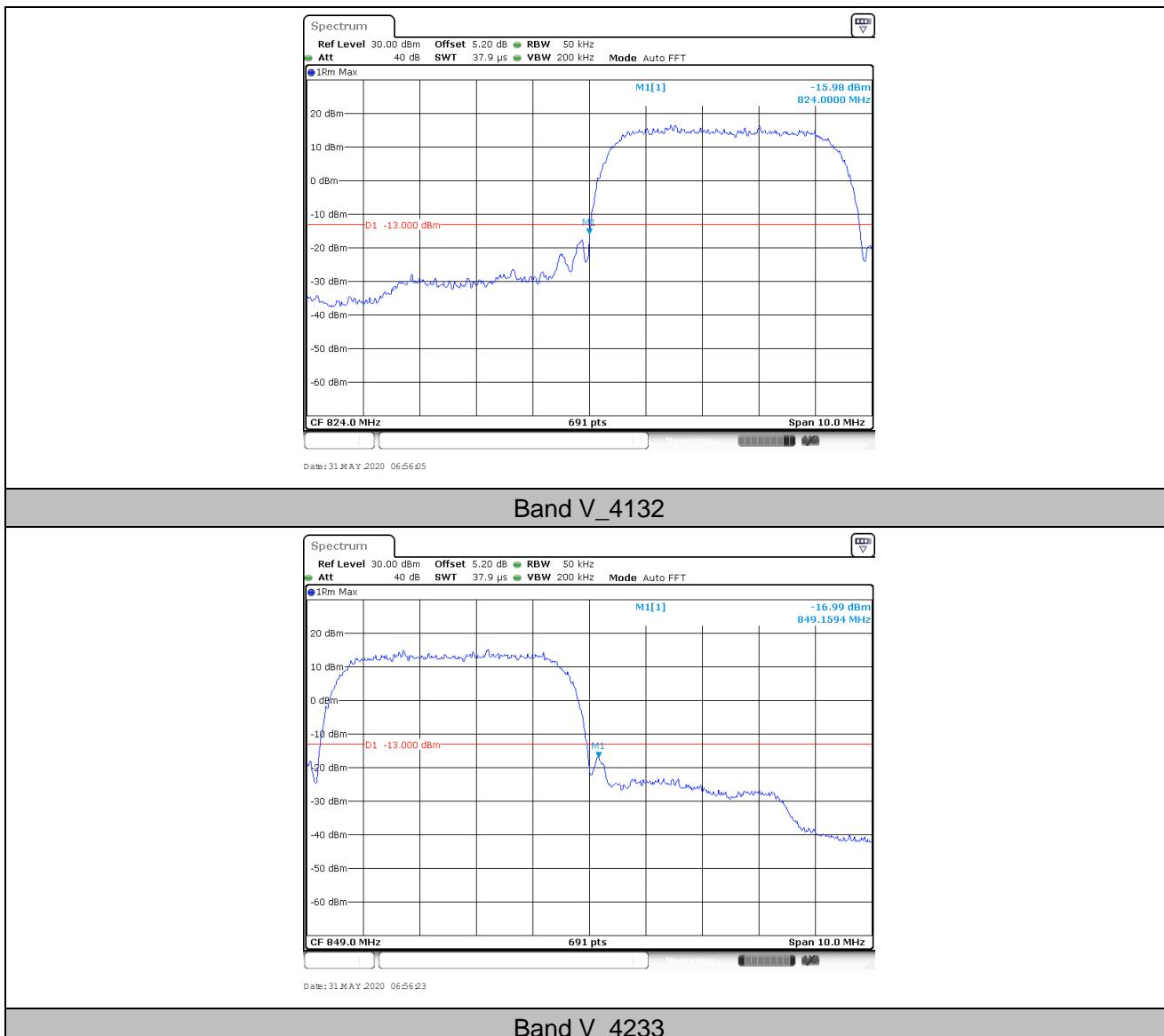


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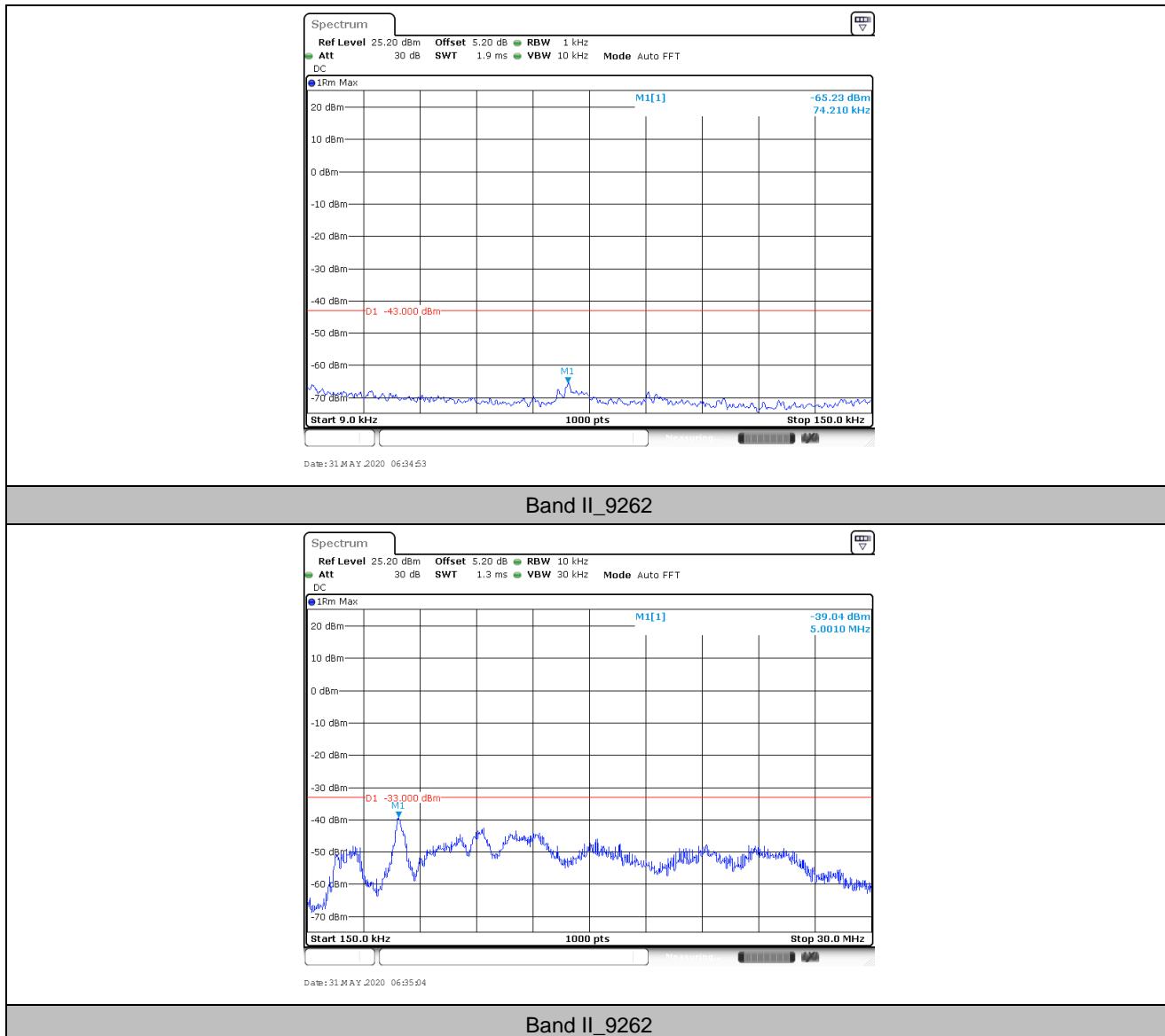
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## 6. Spurious Emission at Antenna Terminal

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



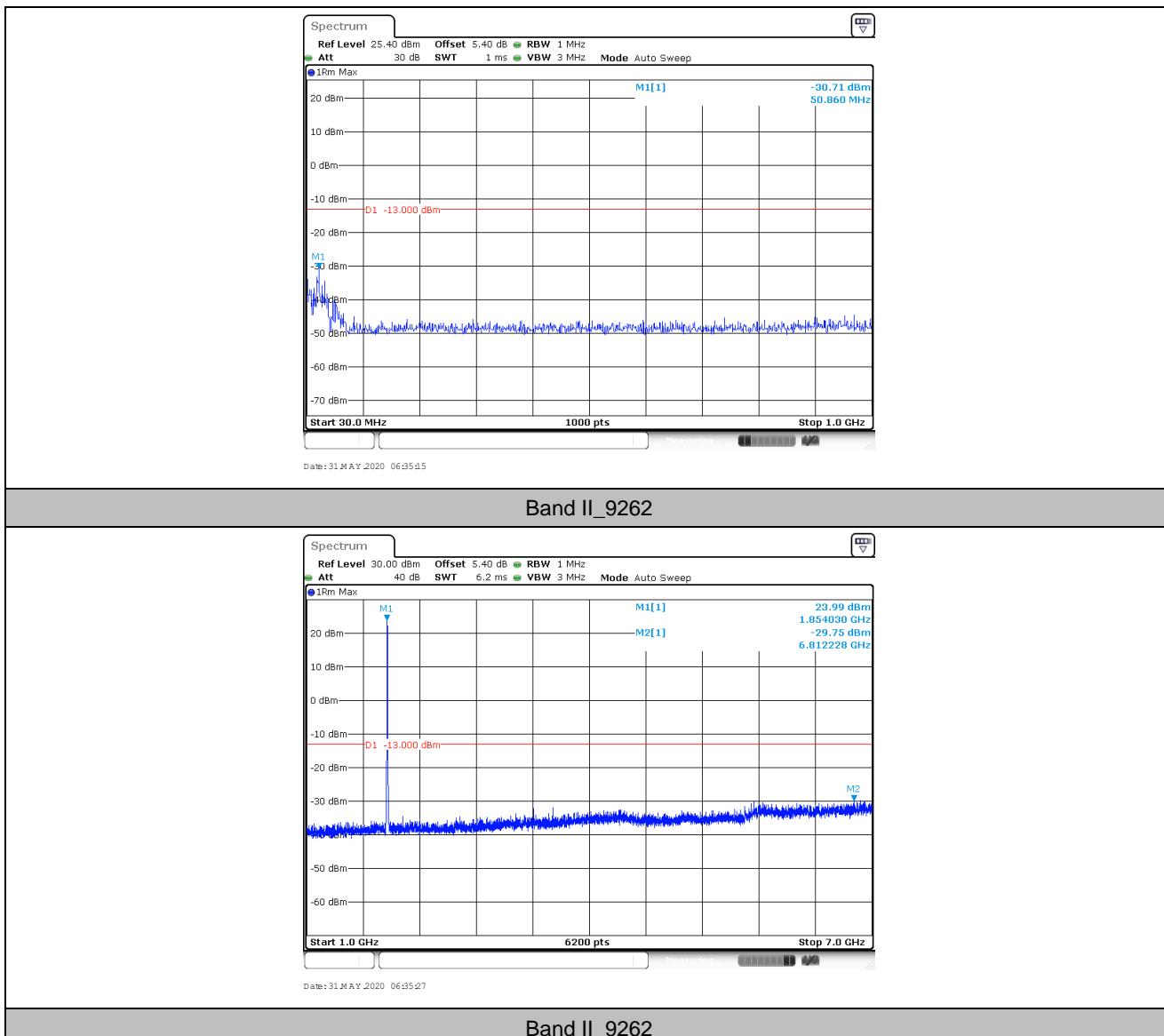
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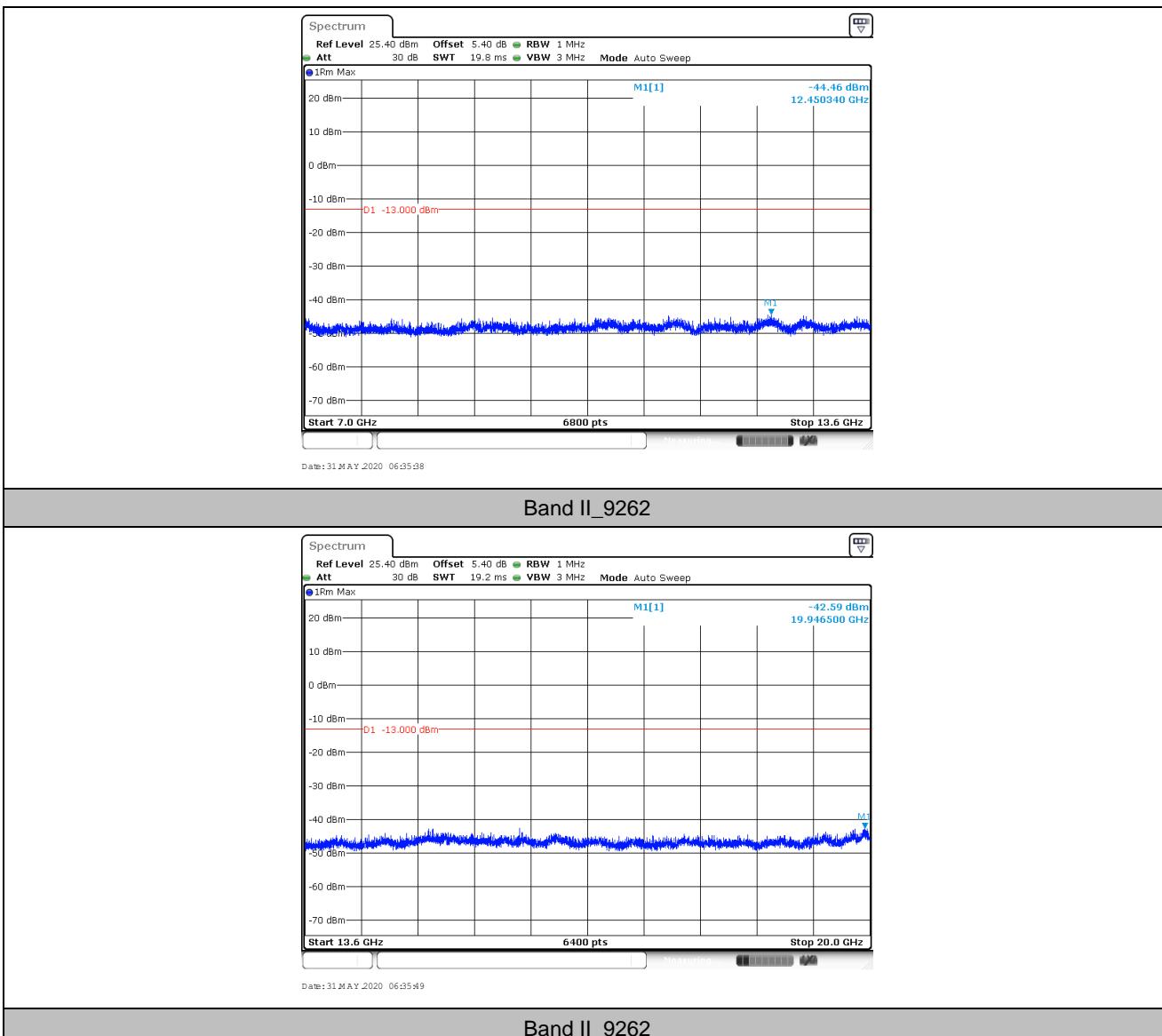


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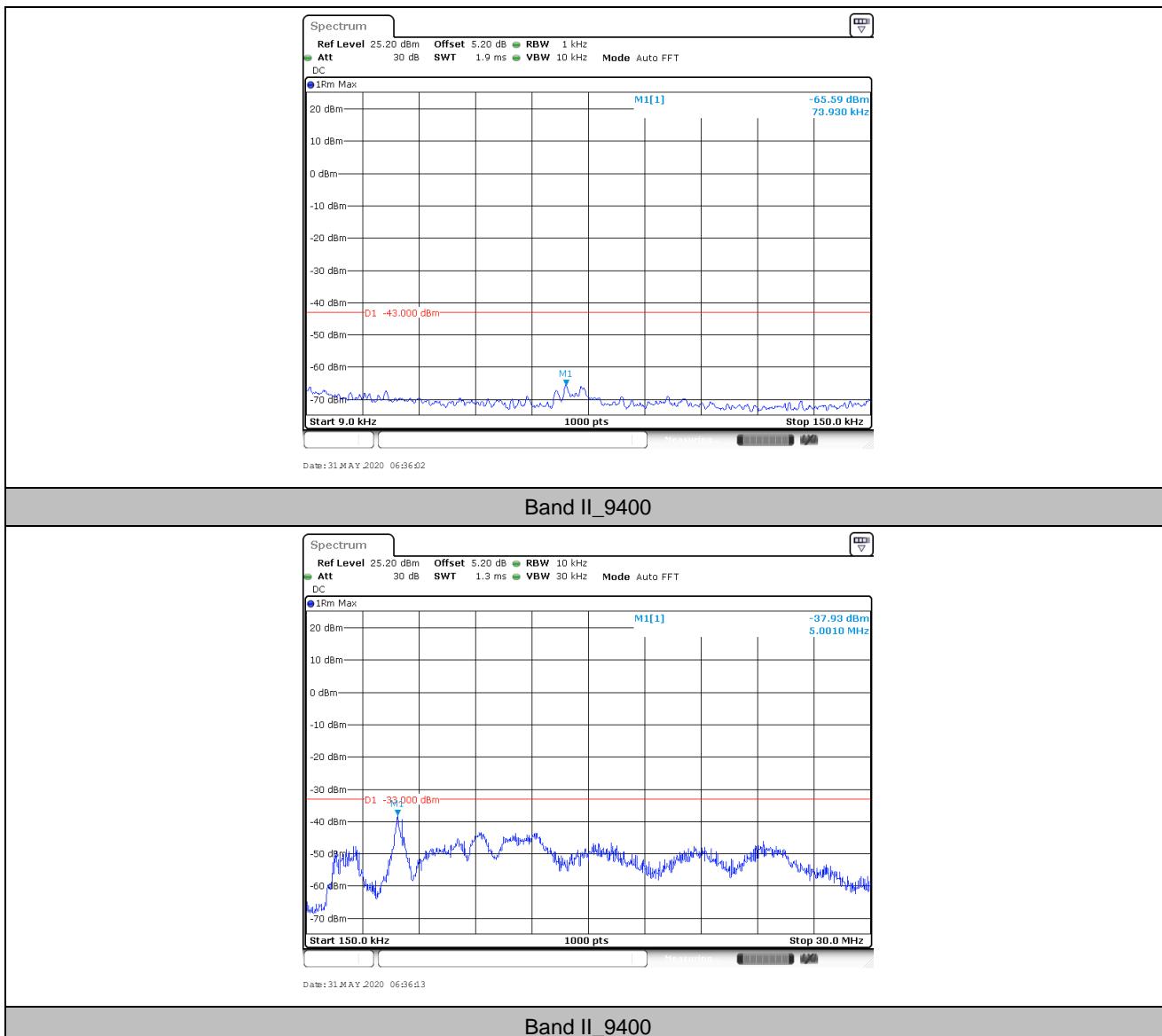


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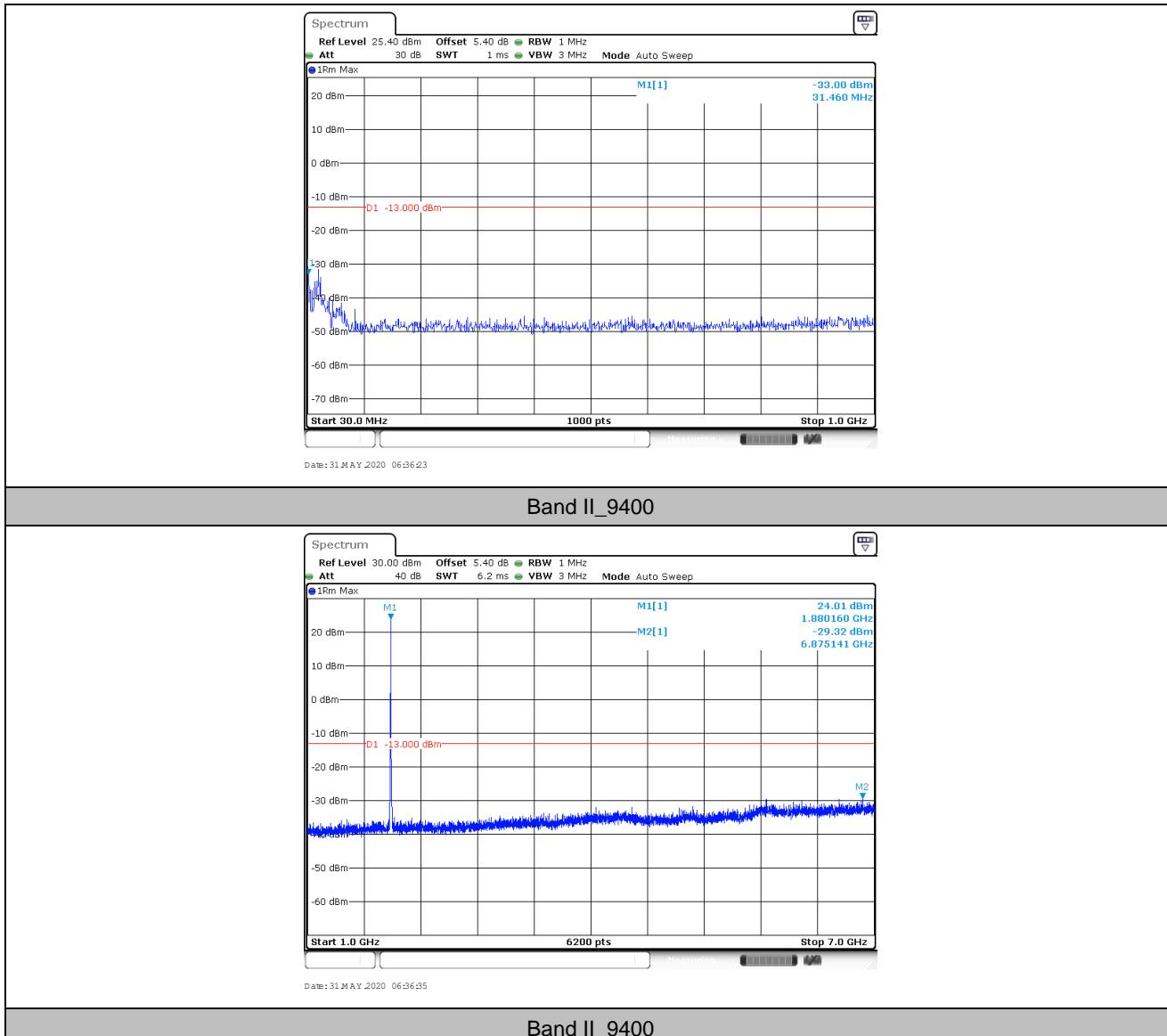
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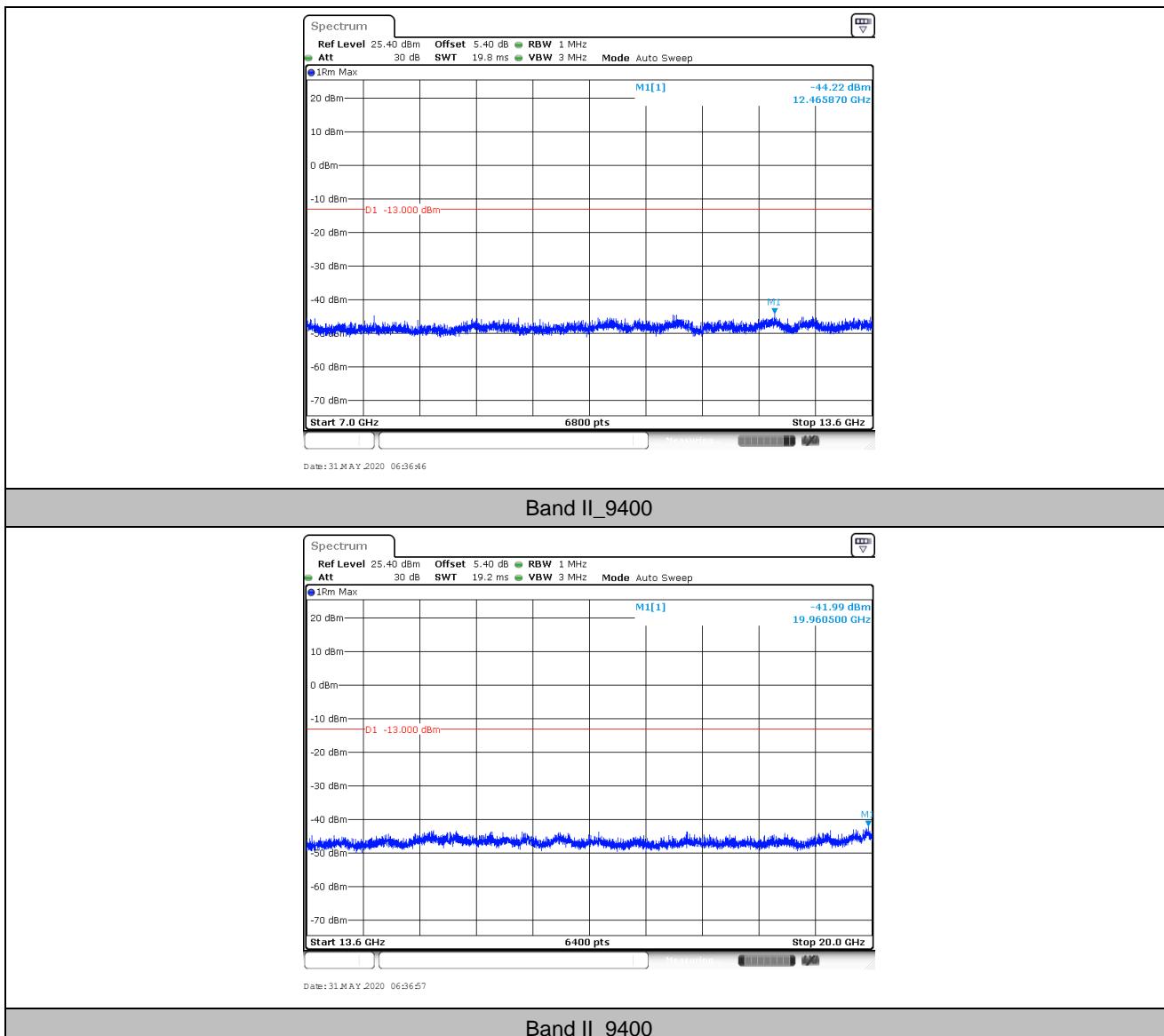
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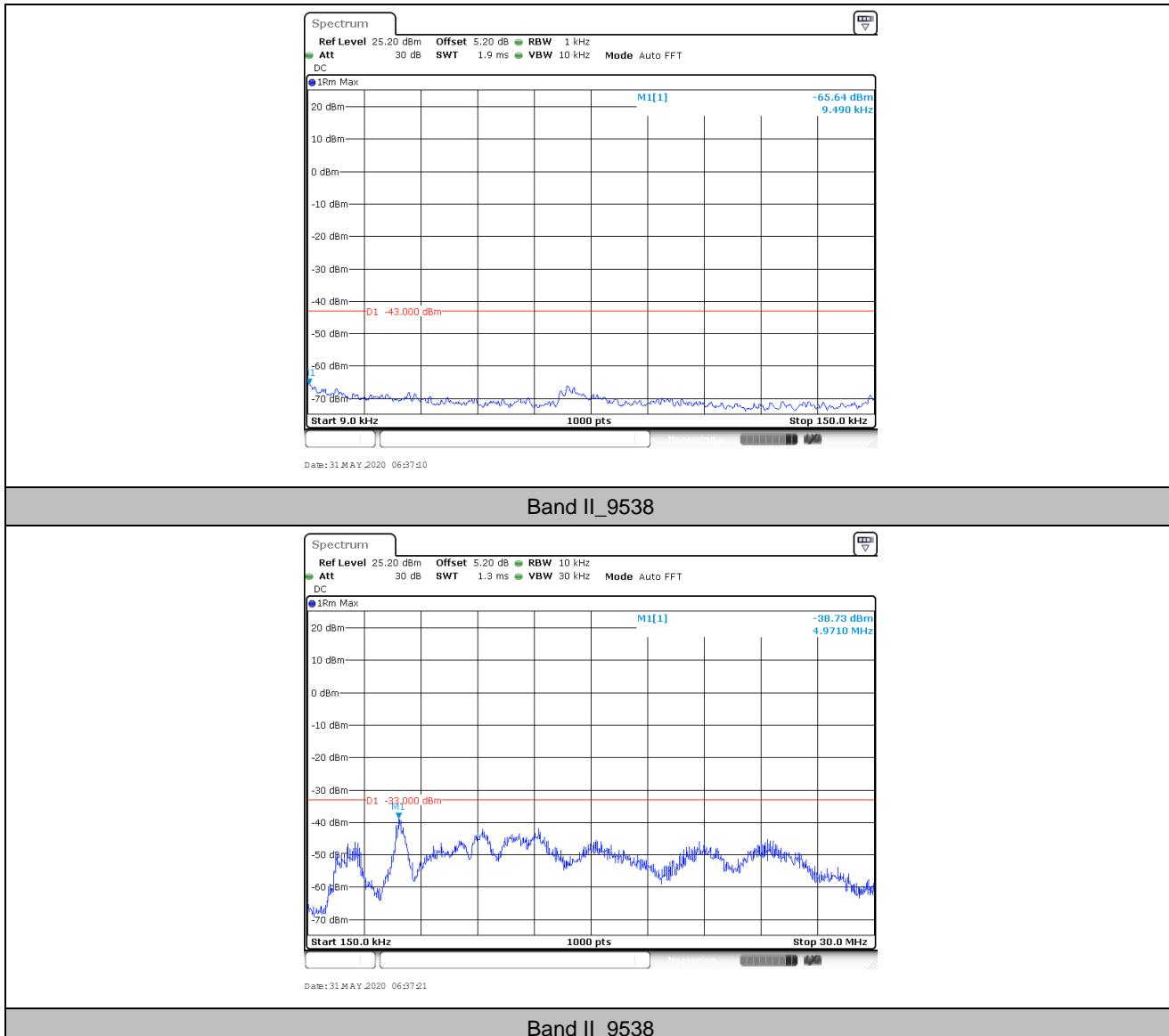


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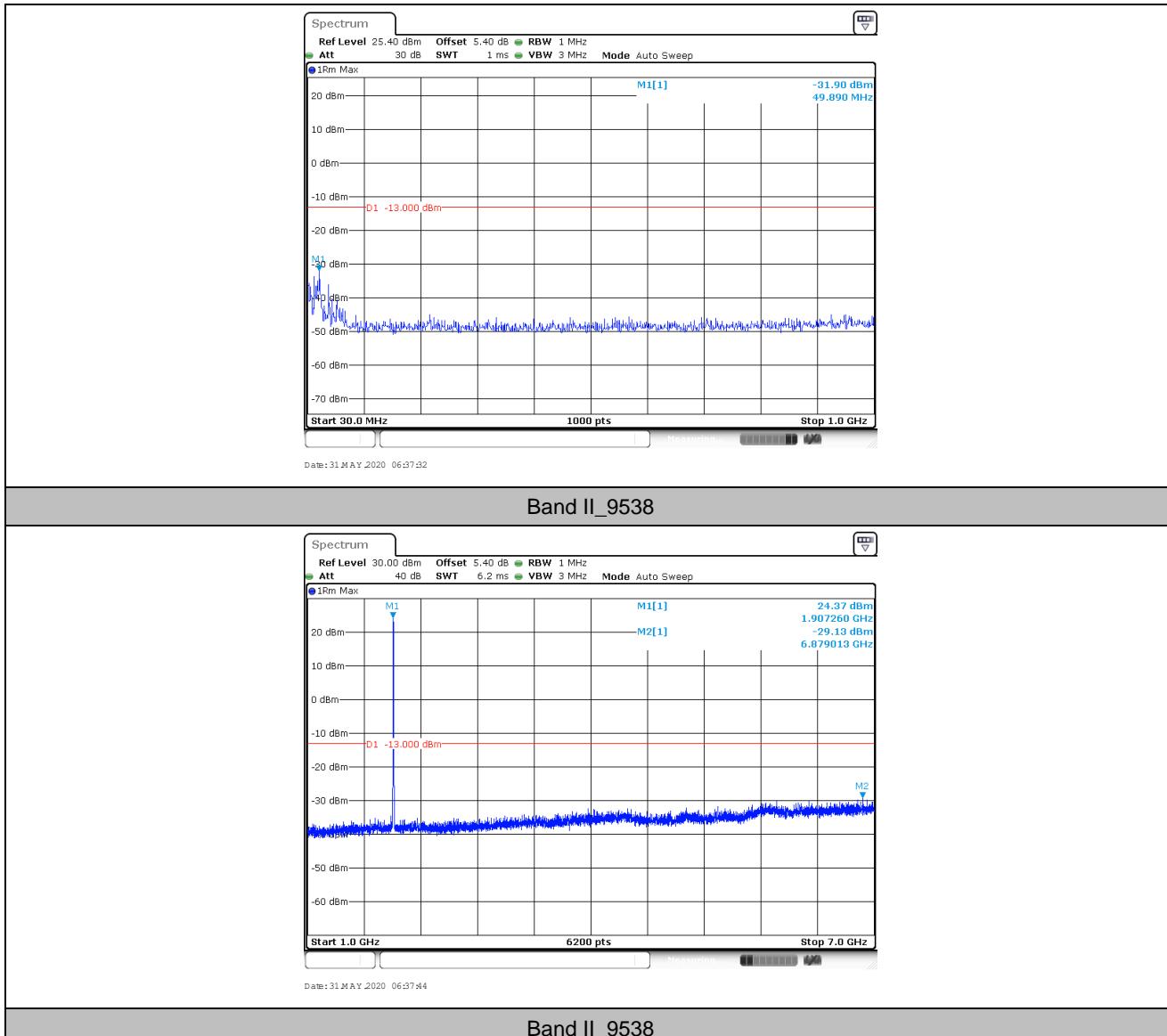
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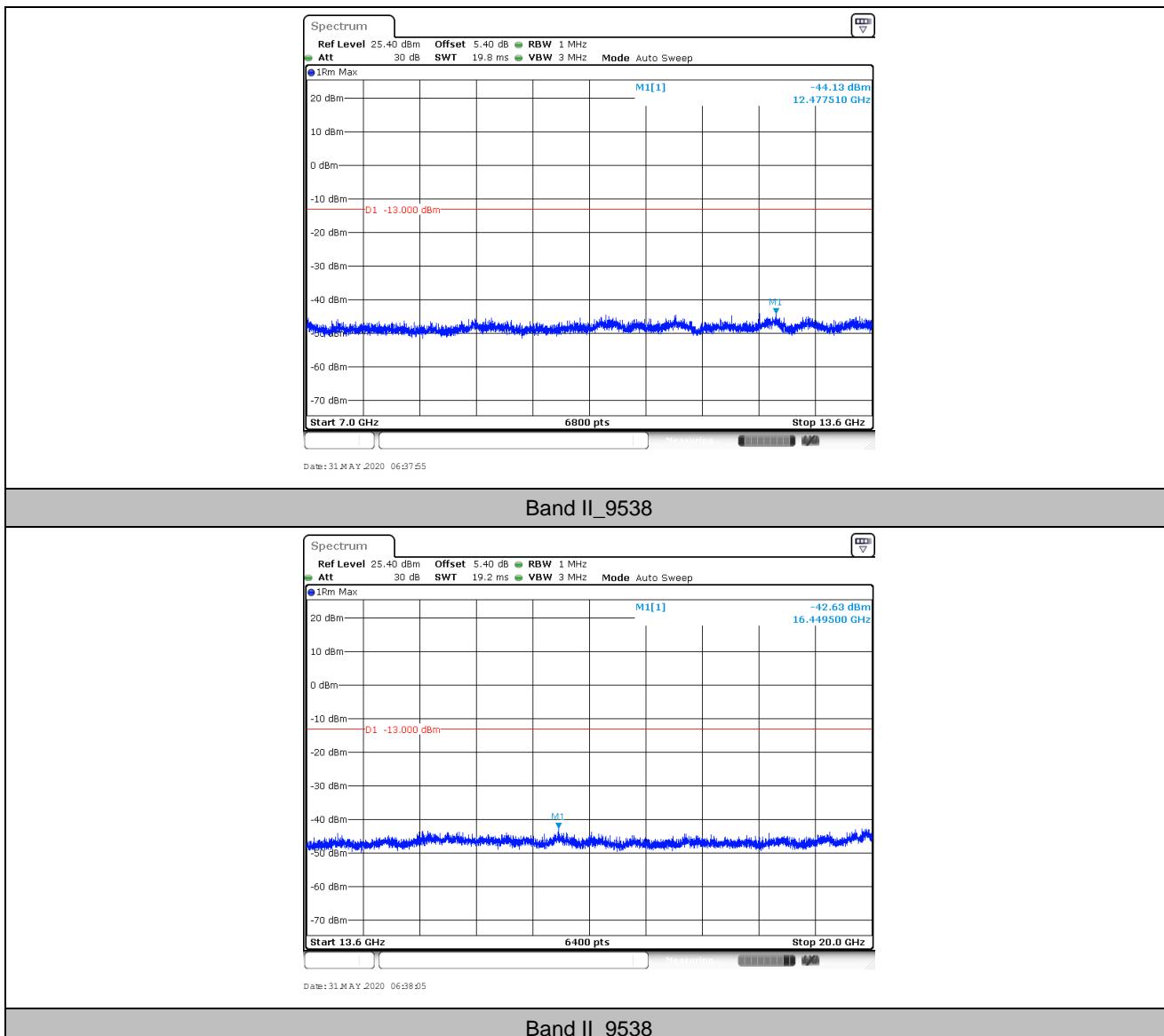
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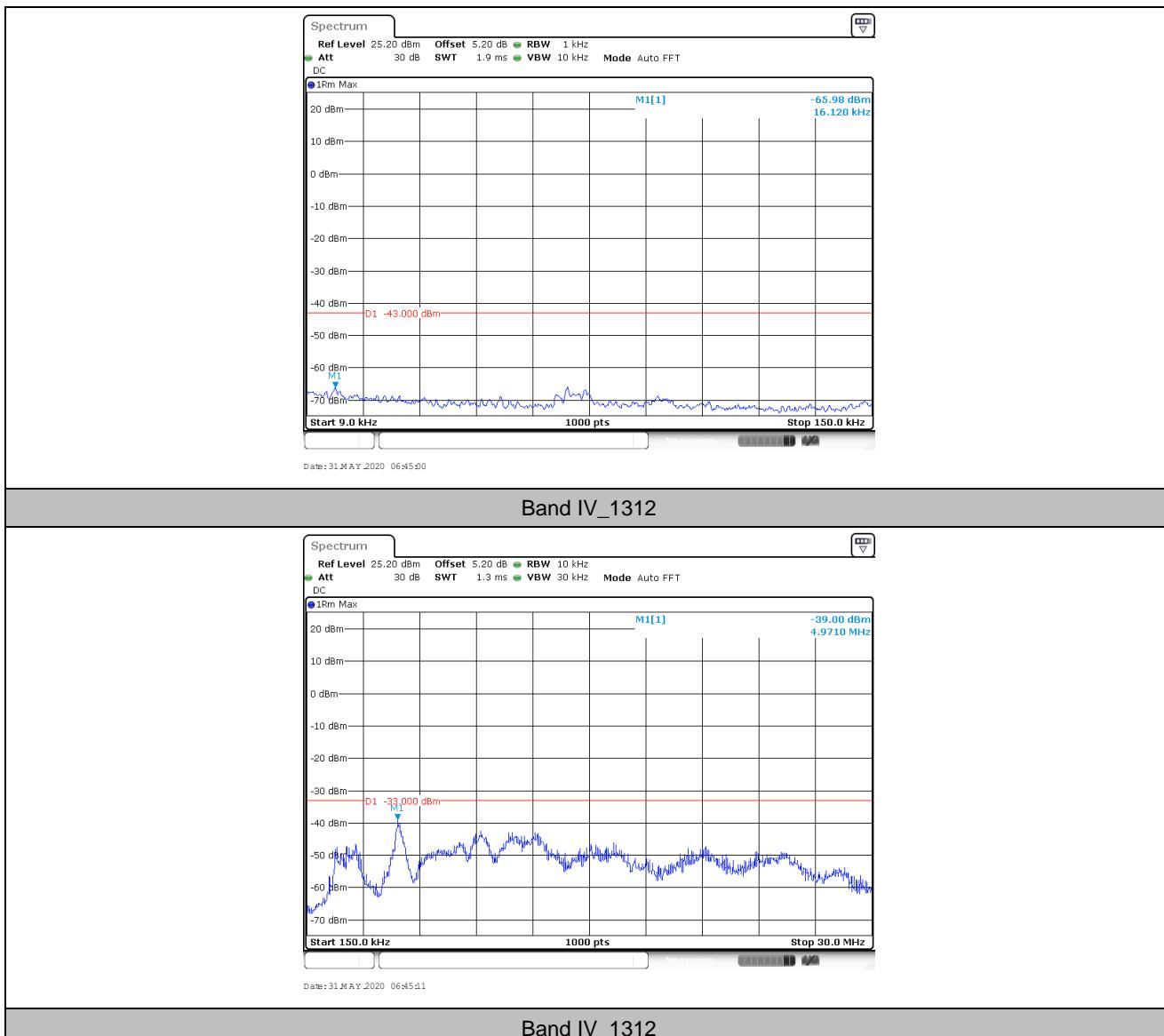
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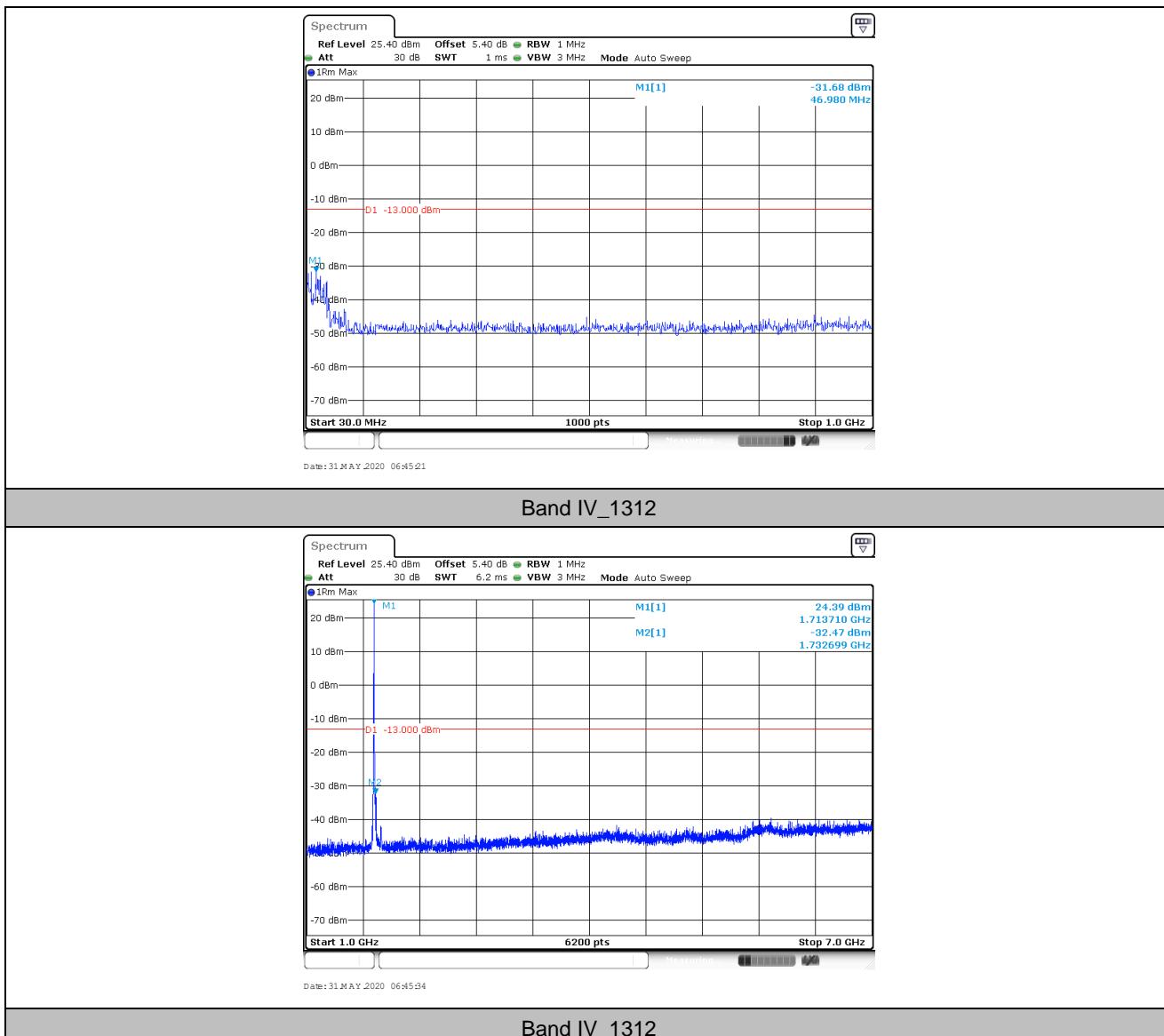


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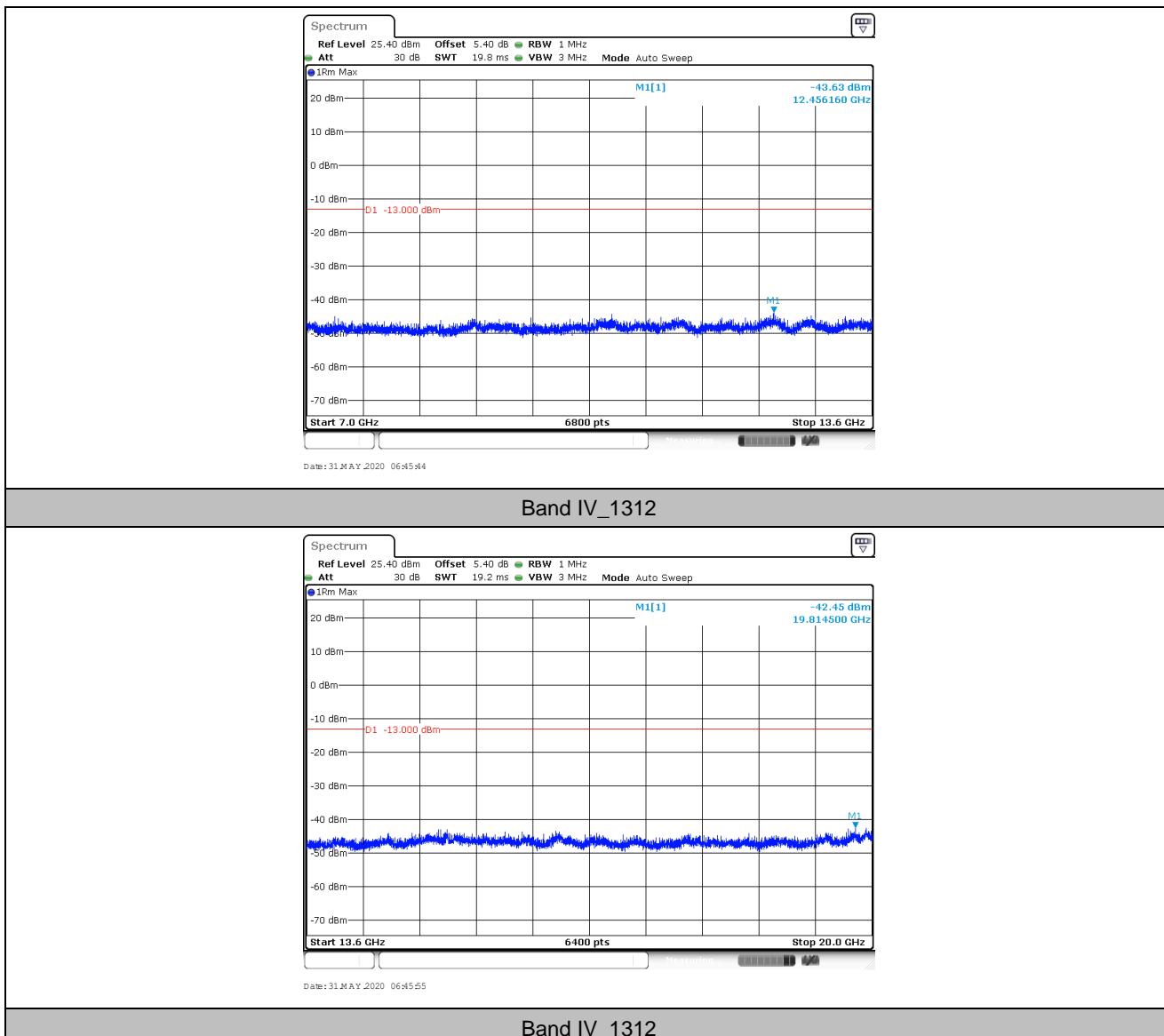


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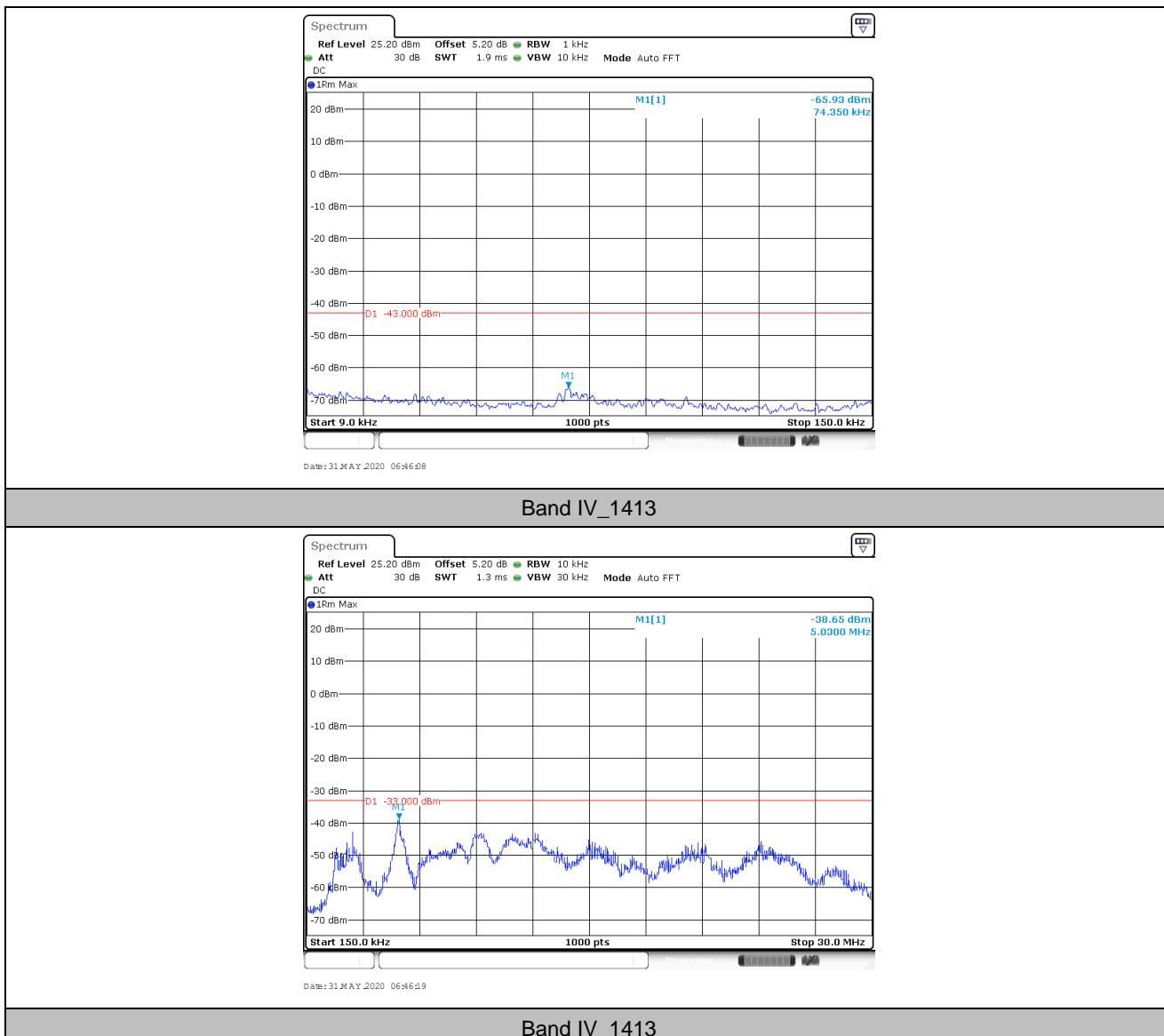


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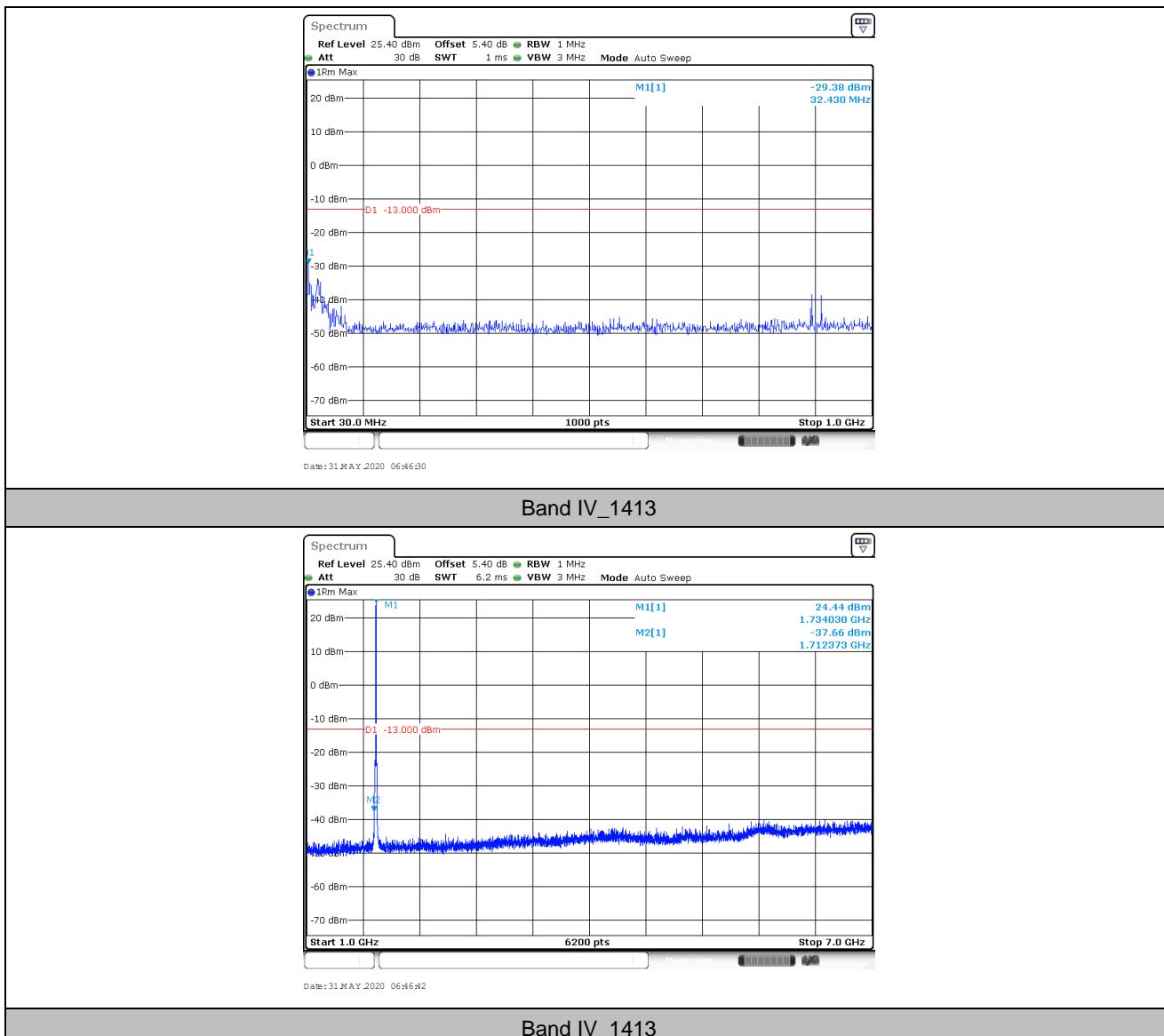


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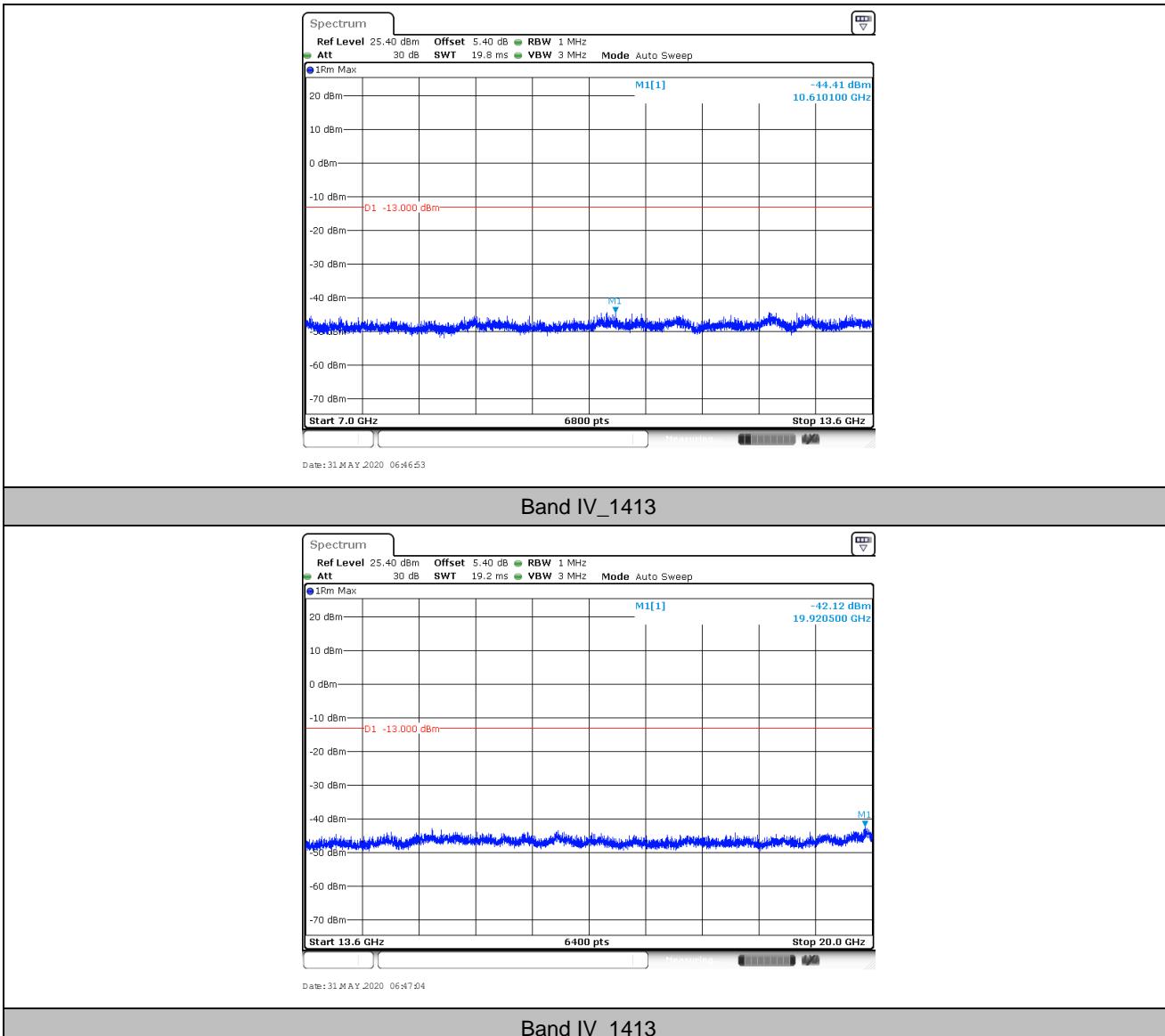


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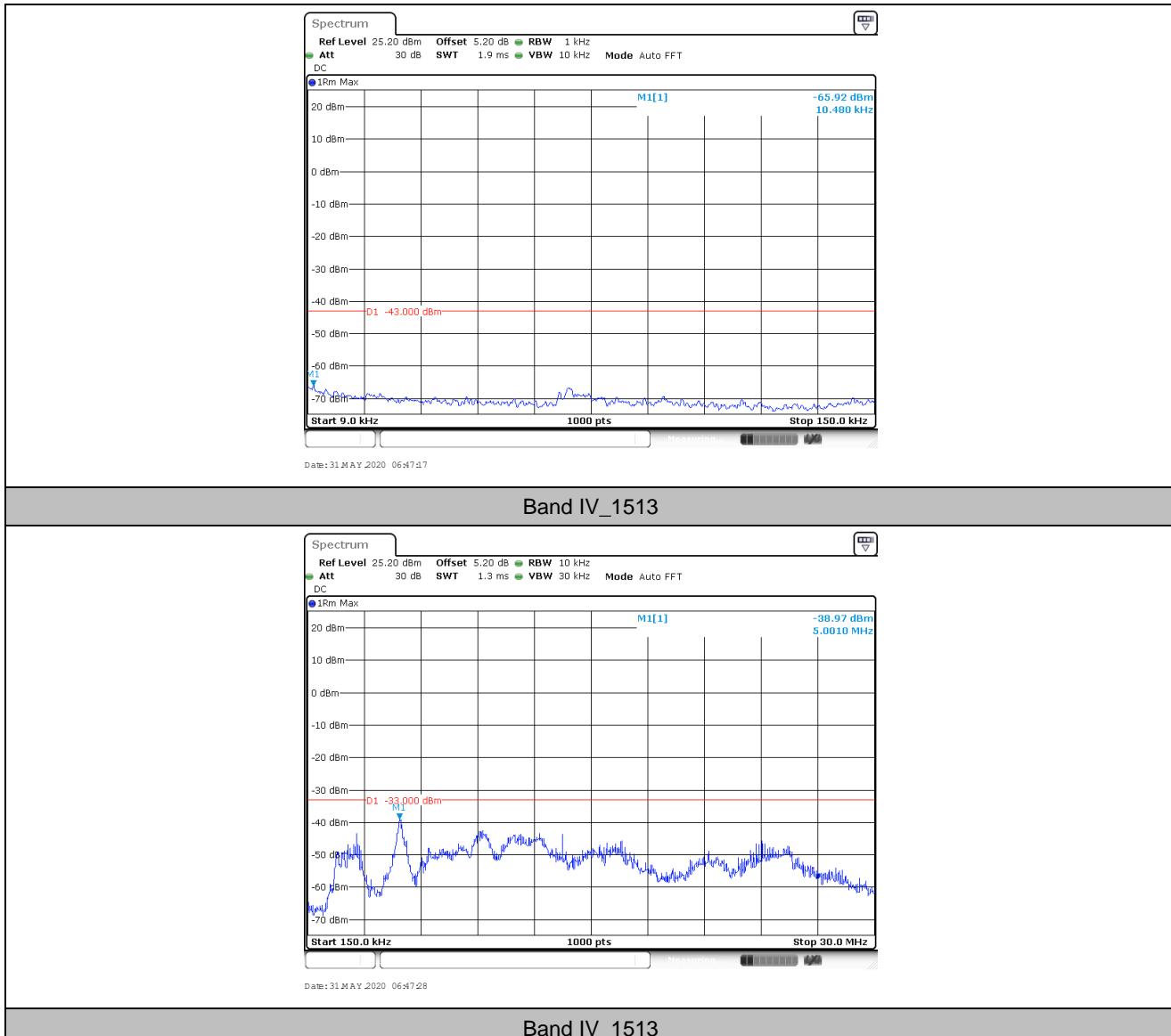
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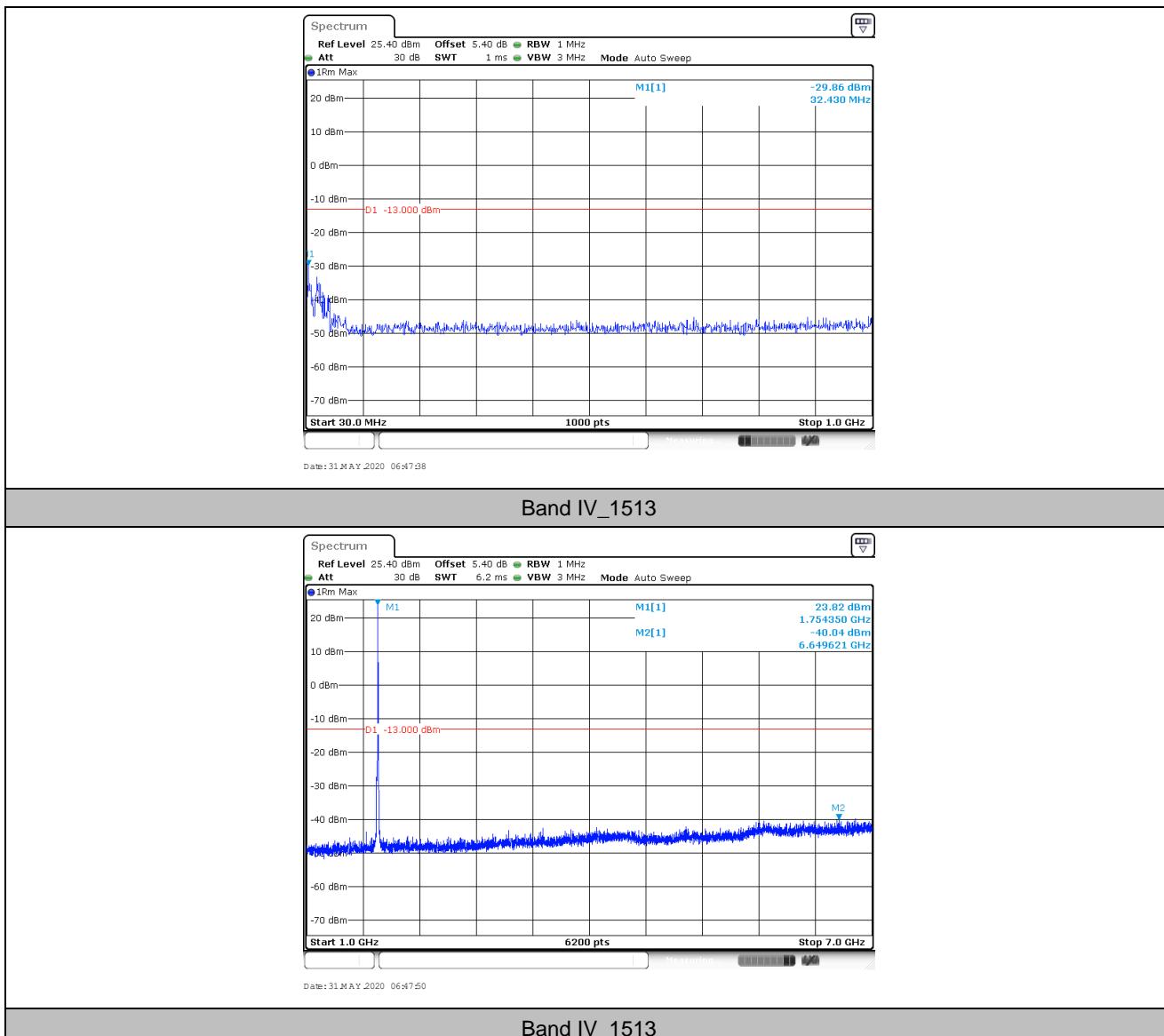


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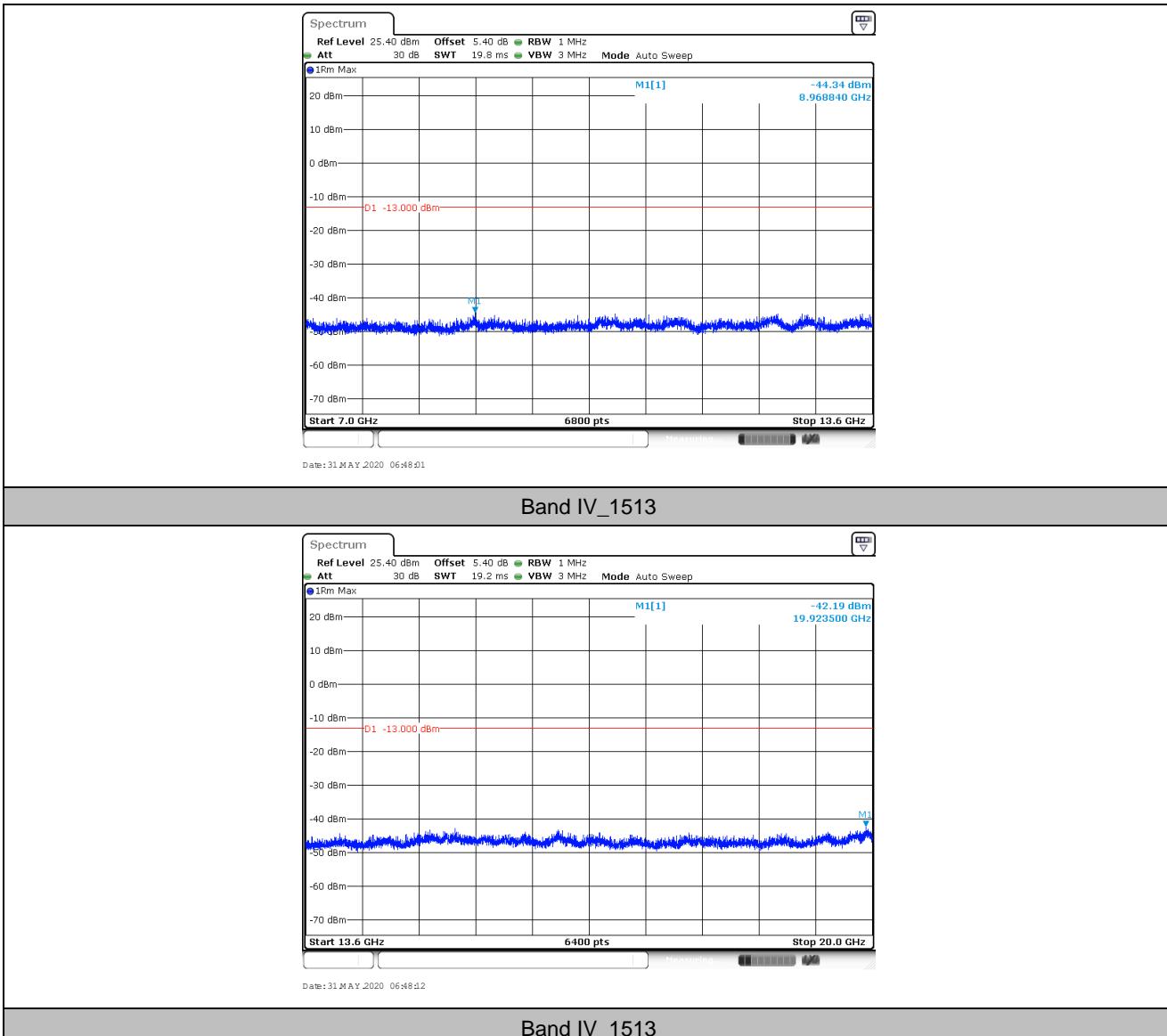


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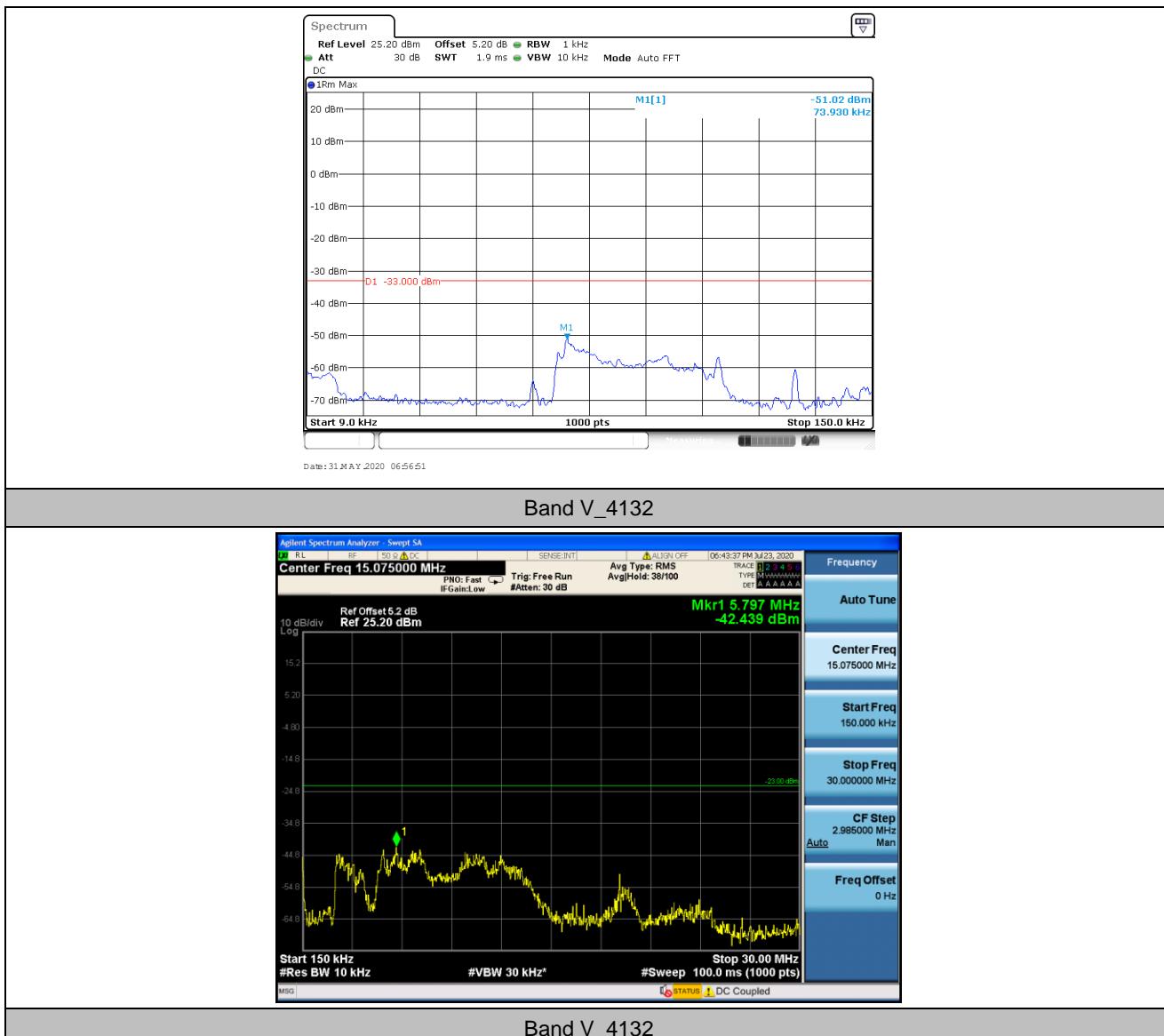


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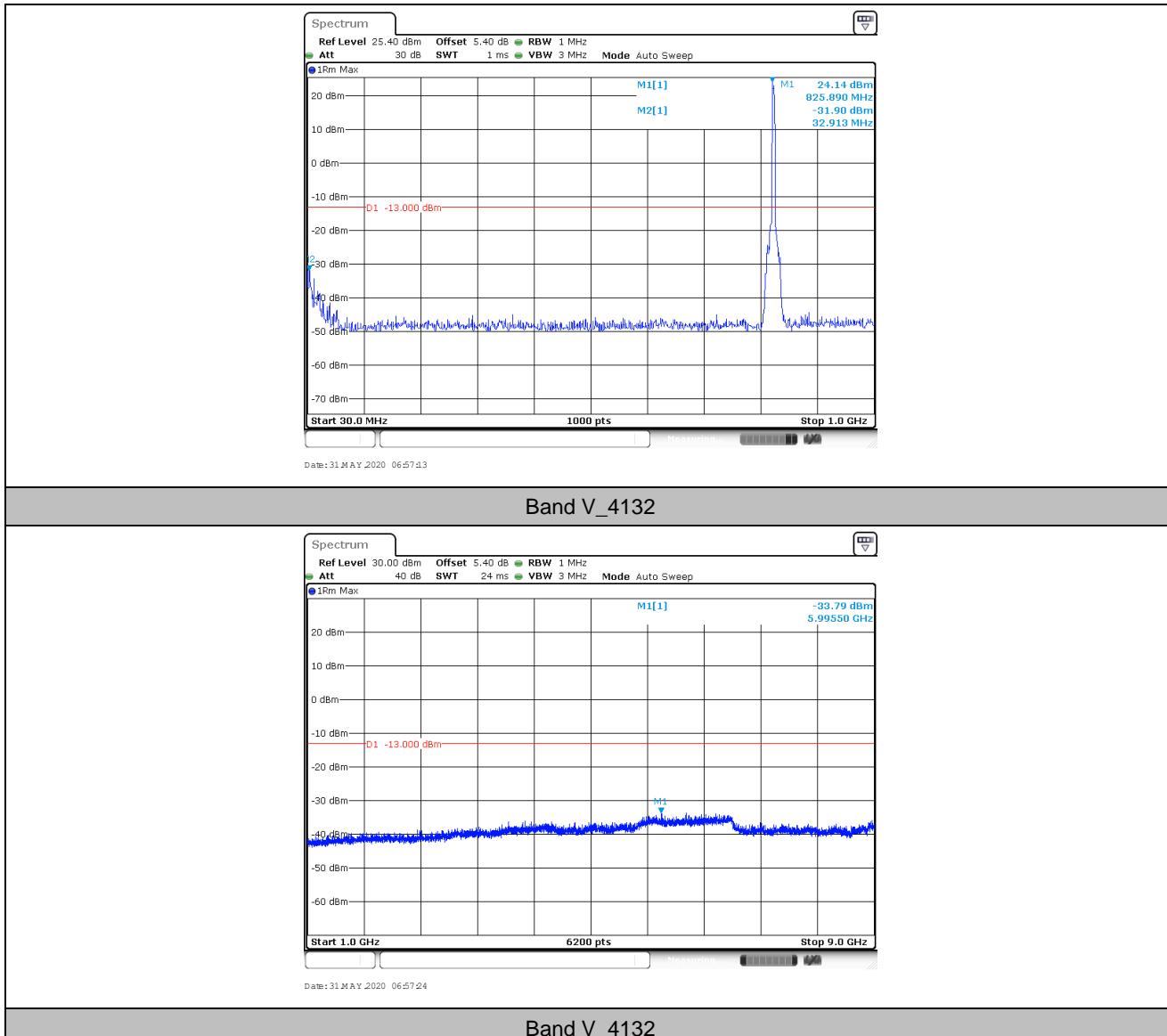
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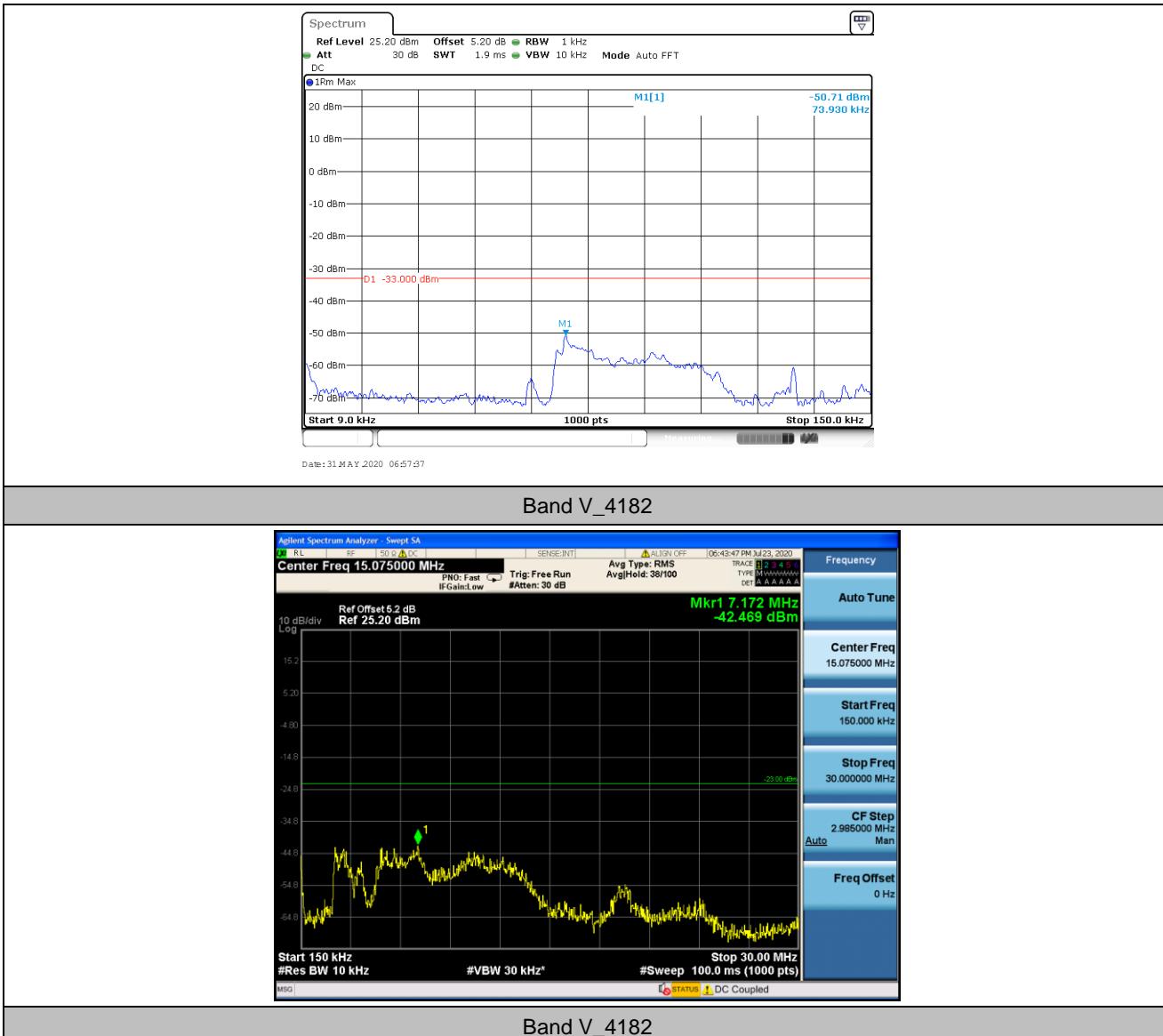
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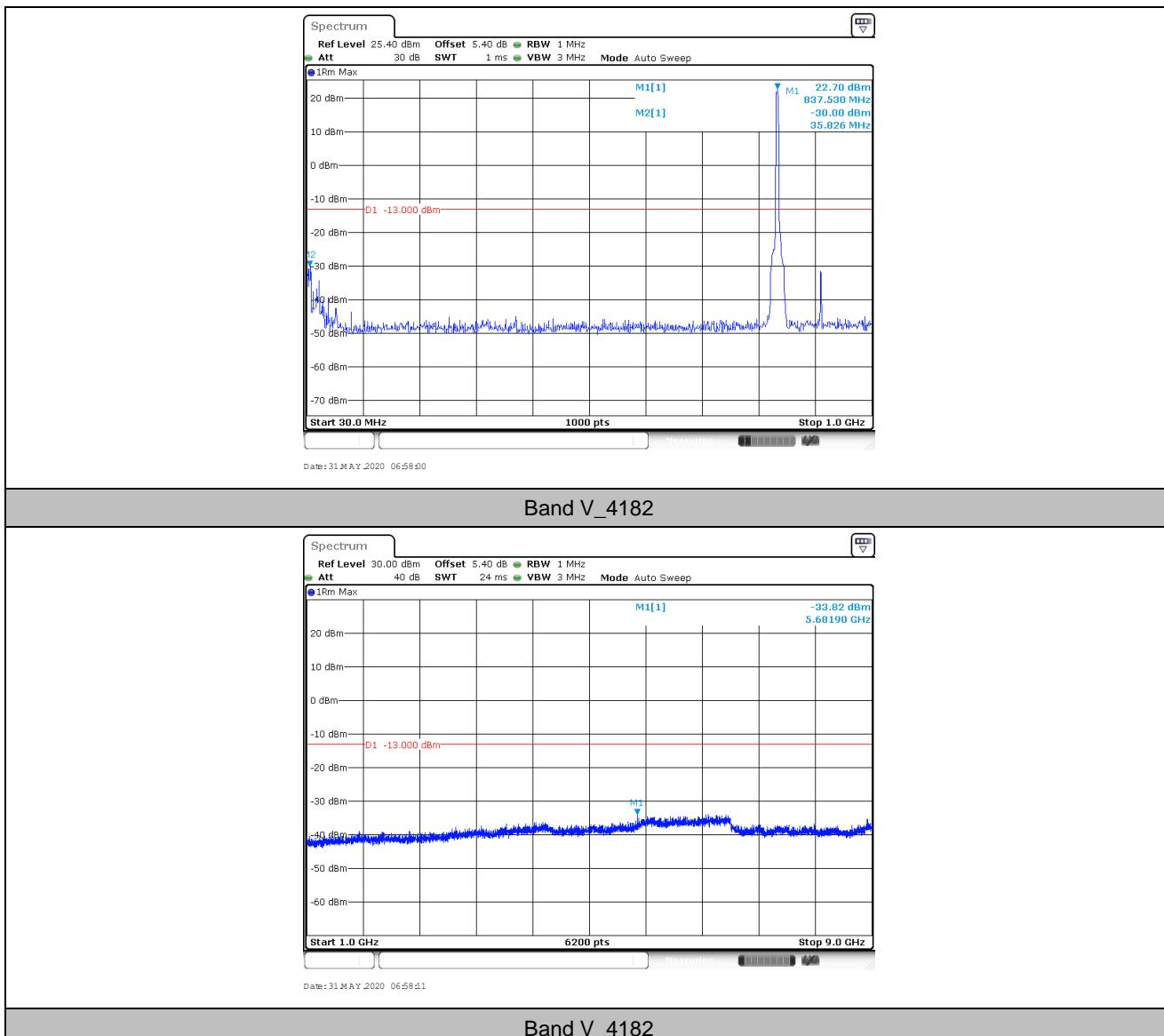
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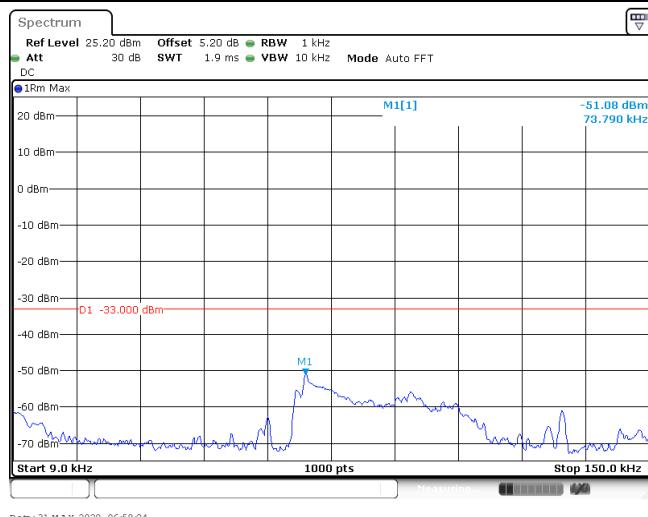


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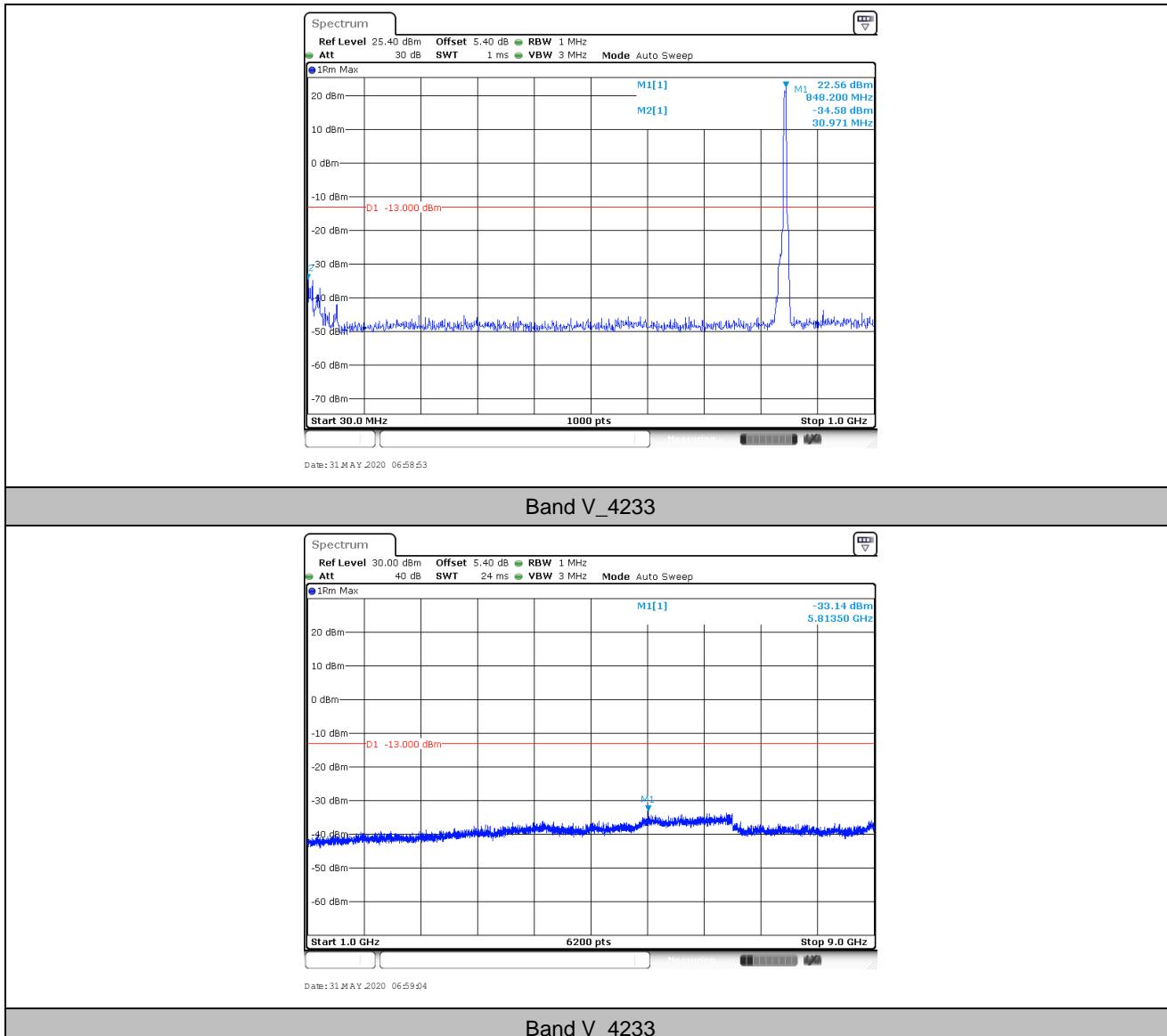


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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II(Down Antenna)

#### 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
67.100000	-70.62	-13.00	57.62	287	218	Vertical
191.800000	-80.05	-13.00	67.05	167	274	Vertical
944.083333	-75.02	-13.00	62.02	213	56	Vertical
3952.087500	-66.04	-13.00	53.04	275	89	Vertical
5559.862500	-58.56	-13.00	45.56	226	243	Vertical
7942.762500	-62.27	-13.00	49.27	208	334	Vertical
63.650000	-72.98	-13.00	59.98	271	213	Horizontal
191.750000	-69.18	-13.00	56.18	236	337	Horizontal
959.345833	-74.78	-13.00	61.78	198	357	Horizontal
4024.725000	-66.20	-13.00	53.20	198	99	Horizontal
5559.862500	-54.73	-13.00	41.73	167	270	Horizontal
7812.112500	-62.55	-13.00	49.55	265	122	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
65.400000	-70.62	-13.00	57.62	256	116	Vertical
191.350000	-81.15	-13.00	68.15	247	146	Vertical
960.445833	-75.70	-13.00	62.70	211	102	Vertical
3761.962500	-63.63	-13.00	50.63	169	111	Vertical
5642.250000	-56.90	-13.00	43.90	256	22	Vertical
7492.800000	-63.93	-13.00	50.93	178	122	Vertical
62.500000	-73.56	-13.00	60.56	260	343	Horizontal
191.350000	-69.95	-13.00	56.95	171	332	Horizontal
965.900000	-74.78	-13.00	61.78	205	342	Horizontal
3761.475000	-62.27	-13.00	49.27	236	318	Horizontal
5636.887500	-56.60	-13.00	43.60	207	41	Horizontal
7406.025000	-63.15	-13.00	50.15	178	109	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
67.200000	-70.30	-13.00	57.30	287	313	Vertical
191.700000	-80.05	-13.00	67.05	209	317	Vertical
950.729167	-74.72	-13.00	61.72	157	72	Vertical
3937.462500	-66.17	-13.00	53.17	200	114	Vertical
5719.762500	-52.39	-13.00	39.39	174	359	Vertical
7854.525000	-62.46	-13.00	49.46	253	106	Vertical
63.500000	-74.20	-13.00	61.20	220	222	Horizontal
191.850000	-67.60	-13.00	54.60	165	186	Horizontal
959.437500	-74.63	-13.00	61.63	225	165	Horizontal
3932.100000	-66.57	-13.00	53.57	249	20	Horizontal
5720.250000	-54.42	-13.00	41.42	193	99	Horizontal
7802.362500	-62.15	-13.00	49.15	178	50	Horizontal

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## 7.2. Test Band = WCDMA Band IV(Down Antenna)

### 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
65.250000	-71.31	-13.00	58.31	290	62	Vertical
191.100000	-82.22	-13.00	69.22	198	244	Vertical
965.120833	-75.05	-13.00	62.05	233	5	Vertical
3426.075000	-62.32	-13.00	49.32	269	113	Vertical
5139.637500	-54.22	-13.00	41.22	172	219	Vertical
7045.762500	-63.27	-13.00	50.27	258	104	Vertical
64.150000	-72.52	-13.00	59.52	279	85	Horizontal
190.750000	-69.92	-13.00	56.92	282	191	Horizontal
975.525000	-74.89	-13.00	61.89	257	171	Horizontal
3426.075000	-62.24	-13.00	49.24	200	4	Horizontal
5140.125000	-51.94	-13.00	38.94	295	72	Horizontal
7074.525000	-63.14	-13.00	50.14	285	84	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
66.200000	-72.25	-13.00	59.25	271	323	Vertical
344.050000	-84.27	-13.00	71.27	272	202	Vertical
927.950000	-75.99	-13.00	62.99	188	271	Vertical
3463.125000	-59.38	-13.00	46.38	285	80	Vertical
5200.575000	-54.34	-13.00	41.34	268	117	Vertical
7040.887500	-63.19	-13.00	50.19	260	41	Vertical
62.750000	-73.34	-13.00	60.34	202	47	Horizontal
190.450000	-71.18	-13.00	58.18	195	116	Horizontal
968.100000	-74.91	-13.00	61.91	237	184	Horizontal
3463.125000	-61.50	-13.00	48.50	151	11	Horizontal
5201.062500	-52.63	-13.00	39.63	225	241	Horizontal
7041.862500	-63.58	-13.00	50.58	150	298	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
64.750000	-71.56	-13.00	58.56	210	117	Vertical
191.150000	-82.39	-13.00	69.39	156	280	Vertical
937.804167	-75.33	-13.00	62.33	154	7	Vertical
3503.587500	-61.17	-13.00	48.17	171	205	Vertical
5260.050000	-54.92	-13.00	41.92	258	34	Vertical
7080.375000	-63.27	-13.00	50.27	197	300	Vertical
63.600000	-72.85	-13.00	59.85	209	173	Horizontal
191.250000	-69.63	-13.00	56.63	235	116	Horizontal
951.875000	-74.44	-13.00	61.44	279	278	Horizontal
3503.100000	-61.53	-13.00	48.53	295	173	Horizontal
5260.537500	-52.49	-13.00	39.49	243	216	Horizontal
7064.287500	-63.09	-13.00	50.09	247	254	Horizontal

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## 7.3. Test Band = WCDMA Band V(Down Antenna)

### 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
66.250000	-71.55	-13.00	58.55	265	63	Vertical
593.137500	-77.17	-13.00	64.17	251	296	Vertical
1654.500000	-64.27	-13.00	51.27	156	186	Vertical
2555.000000	-58.37	-13.00	45.37	156	298	Vertical
3395.362500	-67.73	-13.00	54.73	177	86	Vertical
5054.812500	-65.88	-13.00	52.88	218	12	Vertical
65.800000	-73.71	-13.00	60.71	200	190	Horizontal
189.950000	-74.86	-13.00	61.86	231	50	Horizontal
611.700000	-75.32	-13.00	62.32	236	132	Horizontal
1654.000000	-64.19	-13.00	51.19	195	319	Horizontal
2467.500000	-58.90	-13.00	45.90	177	4	Horizontal
3355.875000	-68.22	-13.00	55.22	224	247	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
66.250000	-71.55	-13.00	58.55	159	197	Vertical
593.137500	-77.17	-13.00	64.17	239	195	Vertical
1654.500000	-64.27	-13.00	51.27	281	154	Vertical
2555.000000	-58.37	-13.00	45.37	178	344	Vertical
3395.362500	-67.73	-13.00	54.73	183	256	Vertical
5054.812500	-65.88	-13.00	52.88	225	74	Vertical
66.000000	-71.59	-13.00	58.59	272	44	Horizontal
192.950000	-75.15	-13.00	62.15	168	308	Horizontal
620.041667	-75.30	-13.00	62.30	216	99	Horizontal
1671.000000	-64.32	-13.00	51.32	183	243	Horizontal
2585.000000	-58.39	-13.00	45.39	266	158	Horizontal
3385.125000	-67.86	-13.00	54.86	276	214	Horizontal

### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
65.800000	-71.50	-13.00	58.50	177	252	Vertical
190.050000	-87.22	-13.00	74.22	249	59	Vertical
617.658333	-76.72	-13.00	63.72	298	326	Vertical
1671.000000	-64.28	-13.00	51.28	207	101	Vertical
2467.000000	-58.50	-13.00	45.50	192	200	Vertical
3426.562500	-67.87	-13.00	54.87	244	333	Vertical
66.000000	-71.59	-13.00	58.59	267	243	Horizontal
192.950000	-75.15	-13.00	62.15	293	36	Horizontal
620.041667	-75.30	-13.00	62.30	192	253	Horizontal
1671.000000	-64.32	-13.00	51.32	161	257	Horizontal
2585.000000	-58.39	-13.00	45.39	267	207	Horizontal
3385.125000	-67.86	-13.00	54.86	172	337	Horizontal

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## 7.4. Test Band = WCDMA Band II(Up Antenna)

### 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
66.750000	-71.23	-13.00	58.23	178	58	Vertical
191.750000	-78.96	-13.00	65.96	189	186	Vertical
956.550000	-75.19	-13.00	62.19	249	159	Vertical
3866.775000	-66.97	-13.00	53.97	194	122	Vertical
5930.362500	-64.66	-13.00	51.66	259	38	Vertical
7760.437500	-62.94	-13.00	49.94	236	233	Vertical
63.400000	-73.39	-13.00	60.39	264	263	Horizontal
191.750000	-69.59	-13.00	56.59	160	96	Horizontal
950.820833	-74.65	-13.00	61.65	253	340	Horizontal
3828.262500	-67.32	-13.00	54.32	188	189	Horizontal
5528.662500	-65.51	-13.00	52.51	177	81	Horizontal
7855.012500	-62.28	-13.00	49.28	244	302	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
67.550000	-70.94	-13.00	57.94	284	216	Vertical
191.800000	-78.76	-13.00	65.76	160	312	Vertical
953.387500	-75.27	-13.00	62.27	227	59	Vertical
3884.812500	-66.66	-13.00	53.66	205	287	Vertical
5940.112500	-64.53	-13.00	51.53	271	297	Vertical
7982.737500	-62.24	-13.00	49.24	219	28	Vertical
63.650000	-73.96	-13.00	60.96	290	106	Horizontal
191.800000	-68.26	-13.00	55.26	285	67	Horizontal
945.687500	-75.21	-13.00	62.21	223	216	Horizontal
3964.275000	-66.60	-13.00	53.60	182	41	Horizontal
6039.562500	-64.31	-13.00	51.31	180	46	Horizontal
8068.050000	-62.75	-13.00	49.75	264	232	Horizontal

#### 7.4.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
68.400000	-70.49	-13.00	57.49	227	81	Vertical
191.800000	-78.41	-13.00	65.41	199	268	Vertical
936.750000	-75.37	-13.00	62.37	212	44	Vertical
3944.287500	-66.16	-13.00	53.16	212	41	Vertical
5959.612500	-64.31	-13.00	51.31	184	23	Vertical
7895.475000	-62.61	-13.00	49.61	243	73	Vertical
62.500000	-73.57	-13.00	60.57	153	331	Horizontal
191.800000	-69.32	-13.00	56.32	167	328	Horizontal
949.950000	-75.32	-13.00	62.32	252	156	Horizontal
3843.862500	-66.99	-13.00	53.99	234	264	Horizontal
5972.775000	-64.25	-13.00	51.25	298	52	Horizontal
7831.612500	-62.48	-13.00	49.48	177	49	Horizontal

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## 7.5. Test Band = WCDMA Band IV(Up Antenna)

### 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
67.800000	-71.34	-13.00	58.34	184	116	Vertical
191.800000	-78.88	-13.00	65.88	262	260	Vertical
937.620833	-75.62	-13.00	62.62	210	114	Vertical
3544.050000	-67.61	-13.00	54.61	290	359	Vertical
5058.225000	-65.63	-13.00	52.63	182	22	Vertical
6899.512500	-63.73	-13.00	50.73	150	114	Vertical
61.950000	-73.75	-13.00	60.75	245	111	Horizontal
191.850000	-69.30	-13.00	56.30	237	95	Horizontal
954.808333	-74.95	-13.00	61.95	251	134	Horizontal
3439.725000	-67.98	-13.00	54.98	170	305	Horizontal
5137.687500	-65.36	-13.00	52.36	234	130	Horizontal
6904.387500	-64.20	-13.00	51.20	283	262	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
67.100000	-71.38	-13.00	58.38	264	324	Vertical
191.750000	-78.82	-13.00	65.82	268	289	Vertical
946.329167	-75.57	-13.00	62.57	230	291	Vertical
3543.562500	-67.78	-13.00	54.78	223	344	Vertical
5034.337500	-65.53	-13.00	52.53	220	113	Vertical
6914.625000	-63.87	-13.00	50.87	171	58	Vertical
62.250000	-74.12	-13.00	61.12	214	269	Horizontal
191.750000	-68.89	-13.00	55.89	202	78	Horizontal
943.441667	-75.03	-13.00	62.03	239	229	Horizontal
3474.825000	-67.71	-13.00	54.71	236	202	Horizontal
5182.050000	-65.64	-13.00	52.64	195	147	Horizontal
7042.837500	-63.23	-13.00	50.23	225	6	Horizontal

### 7.5.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
68.250000	-72.32	-13.00	59.32	184	185	Vertical
191.700000	-79.37	-13.00	66.37	281	170	Vertical
956.229167	-75.65	-13.00	62.65	239	105	Vertical
3559.650000	-67.51	-13.00	54.51	298	181	Vertical
5254.200000	-65.28	-13.00	52.28	284	215	Vertical
7089.637500	-62.65	-13.00	49.65	247	318	Vertical
62.550000	-73.56	-13.00	60.56	286	179	Horizontal
191.750000	-68.50	-13.00	55.50	220	105	Horizontal
959.025000	-74.77	-13.00	61.77	207	213	Horizontal
3497.737500	-67.56	-13.00	54.56	160	197	Horizontal
5254.687500	-65.90	-13.00	52.90	221	285	Horizontal
7050.150000	-63.63	-13.00	50.63	284	106	Horizontal

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## 7.6. Test Band = WCDMA Band V(Up Antenna)

### 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
67.600000	-71.95	-13.00	58.95	283	255	Vertical
191.650000	-79.65	-13.00	66.65	261	201	Vertical
617.750000	-76.65	-13.00	63.65	216	297	Vertical
1623.500000	-64.97	-13.00	51.97	170	160	Vertical
2476.500000	-56.24	-13.00	43.24	260	211	Vertical
3453.862500	-67.66	-13.00	54.66	156	197	Vertical
64.000000	-73.56	-13.00	60.56	251	74	Horizontal
191.750000	-68.28	-13.00	55.28	20	26	Horizontal
622.287500	-76.00	-13.00	63.00	33	38	Horizontal
1624.500000	-64.97	-13.00	51.97	14	273	Horizontal
2476.500000	-55.88	-13.00	42.88	267	282	Horizontal
3452.400000	-67.87	-13.00	54.87	269	171	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
66.750000	-71.56	-13.00	58.56	282	153	Vertical
191.700000	-79.23	-13.00	66.23	106	203	Vertical
616.191667	-76.70	-13.00	63.70	280	172	Vertical
1623.500000	-64.92	-13.00	51.92	229	224	Vertical
2512.500000	-52.26	-13.00	39.26	196	244	Vertical
3366.600000	-67.38	-13.00	54.38	56	228	Vertical
61.900000	-74.01	-13.00	61.01	253	149	Horizontal
191.700000	-69.14	-13.00	56.14	252	226	Horizontal
604.550000	-75.21	-13.00	62.21	228	273	Horizontal
1685.000000	-64.30	-13.00	51.30	293	236	Horizontal
2512.500000	-52.08	-13.00	39.08	246	150	Horizontal
3304.200000	-67.98	-13.00	54.98	293	236	Horizontal

### 7.6.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
68.150000	-71.80	-13.00	58.80	160	308	Vertical
191.700000	-78.72	-13.00	65.72	260	339	Vertical
618.025000	-76.55	-13.00	63.55	187	333	Vertical
1702.500000	-63.97	-13.00	50.97	271	311	Vertical
2542.500000	-53.11	-13.00	40.11	168	24	Vertical
3468.000000	-67.66	-13.00	54.66	236	242	Vertical
63.400000	-73.55	-13.00	60.55	295	202	Horizontal
191.700000	-68.78	-13.00	55.78	293	7	Horizontal
614.083333	-75.05	-13.00	62.05	187	3	Horizontal
1686.500000	-64.26	-13.00	51.26	291	247	Horizontal
2542.500000	-51.78	-13.00	38.78	249	155	Horizontal
3451.912500	-67.58	-13.00	54.58	210	184	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
Band II	9262	VL	TN	4.32	0.002332	±2.5	PASS
Band II	9262	VN	TN	12.40	0.006694	±2.5	PASS
Band II	9262	VH	TN	5.65	0.003052	±2.5	PASS
Band II	9400	VL	TN	-11.98	-0.006372	±2.5	PASS
Band II	9400	VN	TN	-7.15	-0.003801	±2.5	PASS
Band II	9400	VH	TN	-3.27	-0.001740	±2.5	PASS
Band II	9538	VL	TN	-12.38	-0.006488	±2.5	PASS
Band II	9538	VN	TN	-4.82	-0.002526	±2.5	PASS
Band II	9538	VH	TN	10.88	0.005704	±2.5	PASS
Band IV	1312	VL	TN	2.04	0.001190	±2.5	PASS
Band IV	1312	VN	TN	-0.01	-0.000008	±2.5	PASS
Band IV	1312	VH	TN	-9.62	-0.005619	±2.5	PASS
Band IV	1413	VL	TN	-10.99	-0.006342	±2.5	PASS
Band IV	1413	VN	TN	-6.72	-0.003879	±2.5	PASS
Band IV	1413	VH	TN	12.96	0.007480	±2.5	PASS
Band IV	1513	VL	TN	-8.96	-0.005115	±2.5	PASS
Band IV	1513	VN	TN	-6.28	-0.003586	±2.5	PASS
Band IV	1513	VH	TN	-6.09	-0.003476	±2.5	PASS
Band V	4132	VL	TN	14.23	0.017223	±2.5	PASS
Band V	4132	VN	TN	-1.00	-0.001212	±2.5	PASS
Band V	4132	VH	TN	-4.29	-0.005195	±2.5	PASS
Band V	4182	VL	TN	-2.06	-0.002464	±2.5	PASS
Band V	4182	VN	TN	-12.31	-0.014715	±2.5	PASS
Band V	4182	VH	TN	6.24	0.007459	±2.5	PASS
Band V	4233	VL	TN	3.69	0.004361	±2.5	PASS
Band V	4233	VN	TN	-8.88	-0.010488	±2.5	PASS
Band V	4233	VH	TN	13.44	0.015874	±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	5.33	0.002877	±2.5	PASS
Band II	9262	VN	-20	-6.70	-0.003618	±2.5	PASS
Band II	9262	VN	-10	-2.81	-0.001519	±2.5	PASS
Band II	9262	VN	0	-2.87	-0.001551	±2.5	PASS
Band II	9262	VN	10	-13.02	-0.007028	±2.5	PASS
Band II	9262	VN	20	12.24	0.006606	±2.5	PASS
Band II	9262	VN	30	7.81	0.004215	±2.5	PASS
Band II	9262	VN	40	11.12	0.006003	±2.5	PASS
Band II	9262	VN	50	9.29	0.005013	±2.5	PASS
Band II	9400	VN	-30	-10.72	-0.005704	±2.5	PASS
Band II	9400	VN	-20	-11.82	-0.006288	±2.5	PASS
Band II	9400	VN	-10	12.02	0.006396	±2.5	PASS
Band II	9400	VN	0	-8.13	-0.004325	±2.5	PASS
Band II	9400	VN	10	-6.05	-0.003217	±2.5	PASS
Band II	9400	VN	20	5.84	0.003107	±2.5	PASS
Band II	9400	VN	30	5.35	0.002848	±2.5	PASS
Band II	9400	VN	40	-8.97	-0.004772	±2.5	PASS
Band II	9400	VN	50	-3.32	-0.001767	±2.5	PASS
Band II	9538	VN	-30	-9.23	-0.004841	±2.5	PASS
Band II	9538	VN	-20	8.44	0.004426	±2.5	PASS
Band II	9538	VN	-10	7.63	0.003999	±2.5	PASS
Band II	9538	VN	0	-12.51	-0.006556	±2.5	PASS
Band II	9538	VN	10	-5.97	-0.003128	±2.5	PASS
Band II	9538	VN	20	13.64	0.007149	±2.5	PASS
Band II	9538	VN	30	8.98	0.004708	±2.5	PASS
Band II	9538	VN	40	9.23	0.004840	±2.5	PASS
Band II	9538	VN	50	6.39	0.003349	±2.5	PASS
Band IV	1312	VN	-30	10.77	0.006288	±2.5	PASS
Band IV	1312	VN	-20	2.16	0.001262	±2.5	PASS
Band IV	1312	VN	-10	12.77	0.007457	±2.5	PASS
Band IV	1312	VN	0	-3.64	-0.002124	±2.5	PASS
Band IV	1312	VN	10	6.62	0.003864	±2.5	PASS

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Band IV	1312	VN	20	-10.88	-0.006352	±2.5	PASS
Band IV	1312	VN	30	-1.63	-0.000954	±2.5	PASS
Band IV	1312	VN	40	-3.17	-0.001854	±2.5	PASS
Band IV	1312	VN	50	-3.89	-0.002273	±2.5	PASS
Band IV	1413	VN	-30	-3.47	-0.002002	±2.5	PASS
Band IV	1413	VN	-20	-7.63	-0.004402	±2.5	PASS
Band IV	1413	VN	-10	12.85	0.007418	±2.5	PASS
Band IV	1413	VN	0	11.78	0.006800	±2.5	PASS
Band IV	1413	VN	10	-6.71	-0.003874	±2.5	PASS
Band IV	1413	VN	20	3.63	0.002093	±2.5	PASS
Band IV	1413	VN	30	14.00	0.008079	±2.5	PASS
Band IV	1413	VN	40	13.90	0.008025	±2.5	PASS
Band IV	1413	VN	50	-3.81	-0.002200	±2.5	PASS
Band IV	1513	VN	-30	-5.91	-0.003374	±2.5	PASS
Band IV	1513	VN	-20	-8.49	-0.004844	±2.5	PASS
Band IV	1513	VN	-10	-0.95	-0.000541	±2.5	PASS
Band IV	1513	VN	0	10.78	0.006150	±2.5	PASS
Band IV	1513	VN	10	0.50	0.000287	±2.5	PASS
Band IV	1513	VN	20	-6.95	-0.003963	±2.5	PASS
Band IV	1513	VN	30	11.10	0.006335	±2.5	PASS
Band IV	1513	VN	40	5.54	0.003164	±2.5	PASS
Band IV	1513	VN	50	7.85	0.004481	±2.5	PASS
Band V	4132	VN	-30	-0.87	-0.001058	±2.5	PASS
Band V	4132	VN	-20	2.45	0.002962	±2.5	PASS
Band V	4132	VN	-10	7.79	0.009425	±2.5	PASS
Band V	4132	VN	0	11.49	0.013901	±2.5	PASS
Band V	4132	VN	10	10.58	0.012805	±2.5	PASS
Band V	4132	VN	20	2.15	0.002603	±2.5	PASS
Band V	4132	VN	30	9.34	0.011299	±2.5	PASS
Band V	4132	VN	40	1.98	0.002392	±2.5	PASS
Band V	4132	VN	50	-11.31	-0.013689	±2.5	PASS
Band V	4182	VN	-30	-8.61	-0.010292	±2.5	PASS
Band V	4182	VN	-20	2.77	0.003312	±2.5	PASS
Band V	4182	VN	-10	-3.18	-0.003805	±2.5	PASS
Band V	4182	VN	0	4.13	0.004941	±2.5	PASS
Band V	4182	VN	10	3.48	0.004157	±2.5	PASS
Band V	4182	VN	20	4.93	0.005892	±2.5	PASS

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Band V	4182	VN	30	6.55	0.007836	±2.5	PASS
Band V	4182	VN	40	8.60	0.010285	±2.5	PASS
Band V	4182	VN	50	-8.77	-0.010490	±2.5	PASS
Band V	4233	VN	-30	-12.57	-0.014844	±2.5	PASS
Band V	4233	VN	-20	-10.32	-0.012185	±2.5	PASS
Band V	4233	VN	-10	11.90	0.014055	±2.5	PASS
Band V	4233	VN	0	-4.45	-0.005255	±2.5	PASS
Band V	4233	VN	10	7.71	0.009105	±2.5	PASS
Band V	4233	VN	20	0.96	0.001133	±2.5	PASS
Band V	4233	VN	30	-14.00	-0.016531	±2.5	PASS
Band V	4233	VN	40	-0.51	-0.000599	±2.5	PASS
Band V	4233	VN	50	4.84	0.005716	±2.5	PASS

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