

# 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	22.83	19.8	33.00	PASS
Band II	9400	22.58	19.55	33.00	PASS
Band II	9538	22.51	19.48	33.00	PASS
Band IV	1312	22.91	21.46	30.00	PASS
Band IV	1413	23.15	21.7	30.00	PASS
Band IV	1513	23.35	21.9	30.00	PASS

Band	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	4132	23.38	15.28	38.45	PASS
Band V	4182	23.39	15.29	38.45	PASS
Band V	4233	23.41	15.31	38.45	PASS

Remark:

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

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

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



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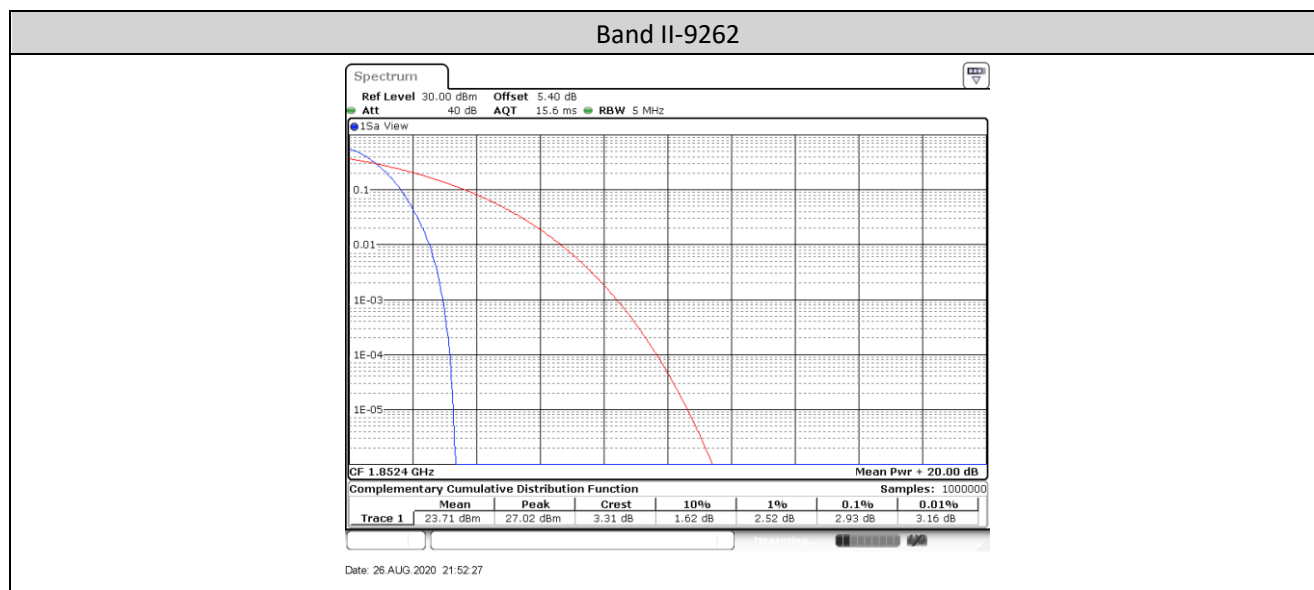
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## 2. Peak-to-Average Ratio(CCDF)

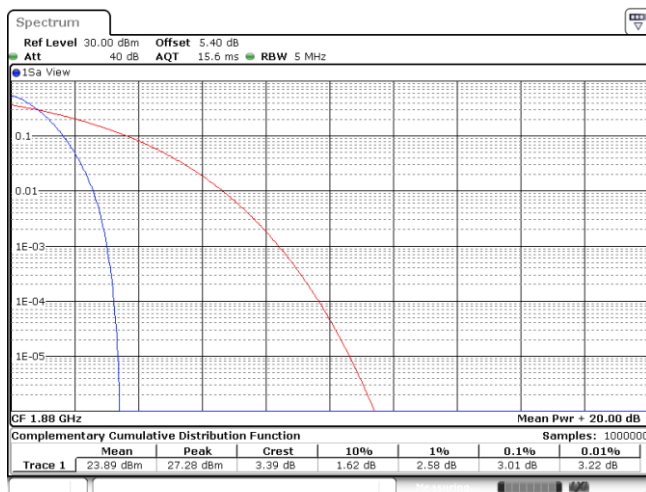
### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	2.93	13	PASS
Band II	9400	3.01	13	PASS
Band II	9538	3.01	13	PASS
Band IV	1312	2.93	13	PASS
Band IV	1413	3.01	13	PASS
Band IV	1513	2.84	13	PASS
Band V	4132	3.1	13	PASS
Band V	4182	2.81	13	PASS
Band V	4233	2.72	13	PASS

### 2.2. Test Plots

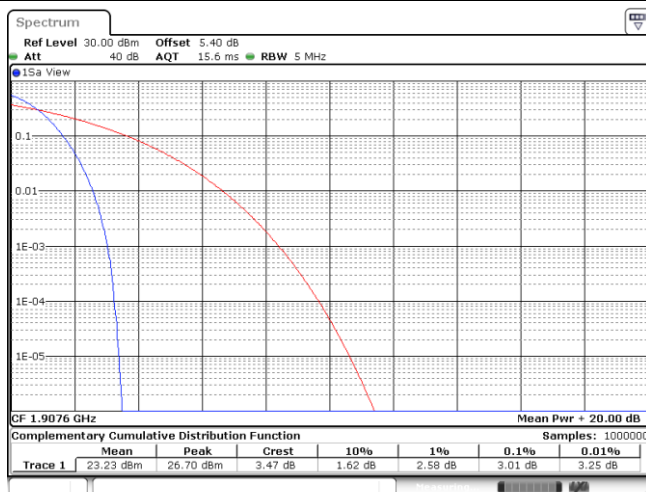


## Band II-9400



Date: 26 AUG 2020 21:52:40

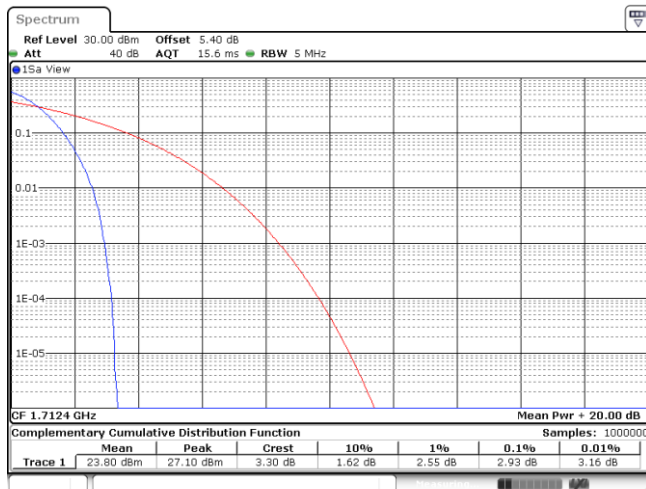
## Band II-9538



Date: 26 AUG 2020 21:53:05

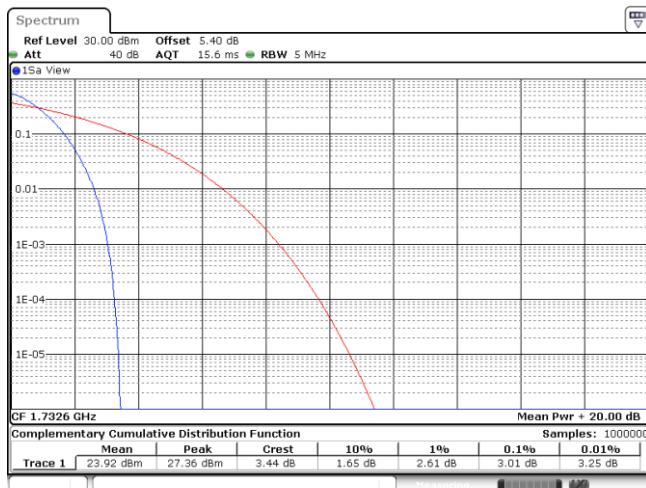


## Band IV-1312



Date: 26 AUG 2020 21:35:17

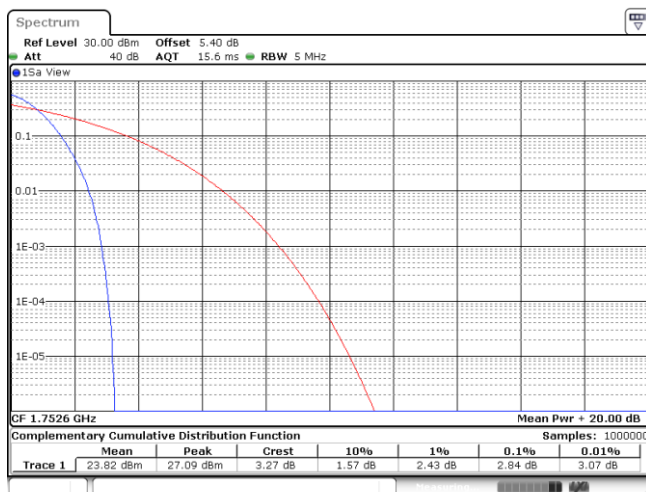
## Band IV-1413



Date: 26 AUG 2020 21:35:30

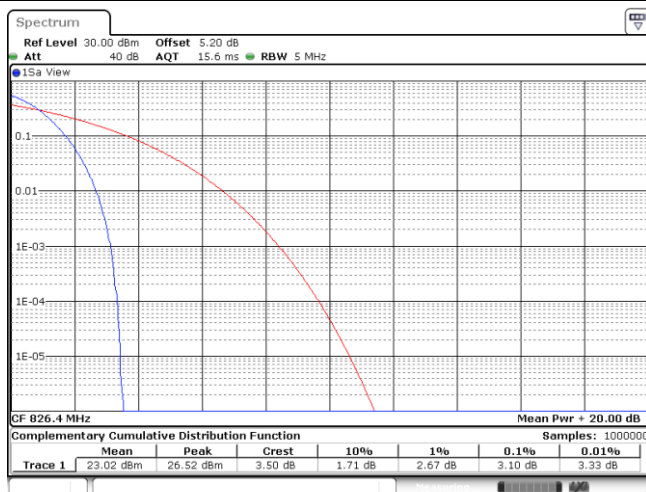


**Band IV-1513**



Date: 26 AUG 2020 21:35:44

**Band V-4132**



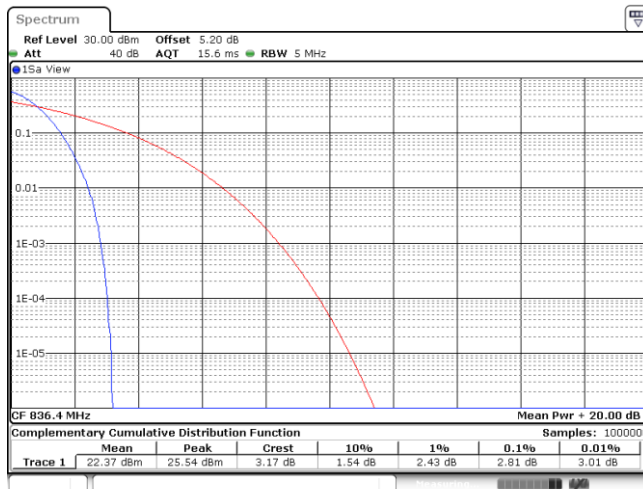
Date: 26 AUG 2020 21:41:20



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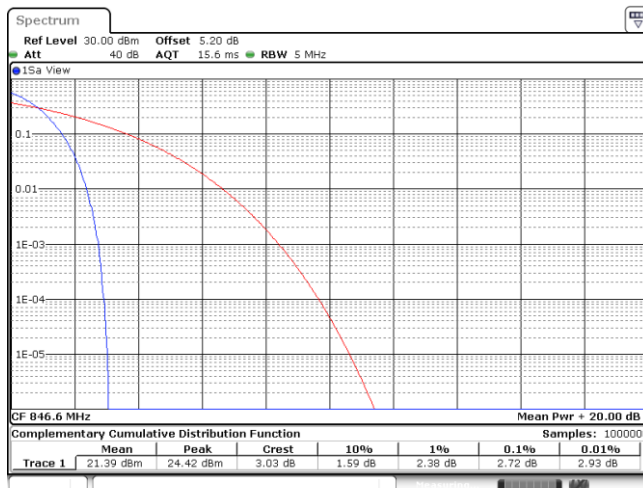
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Band V-4182



Date: 26 AUG 2020 21:41:33

Band V-4233



Date: 26 AUG 2020 21:41:46

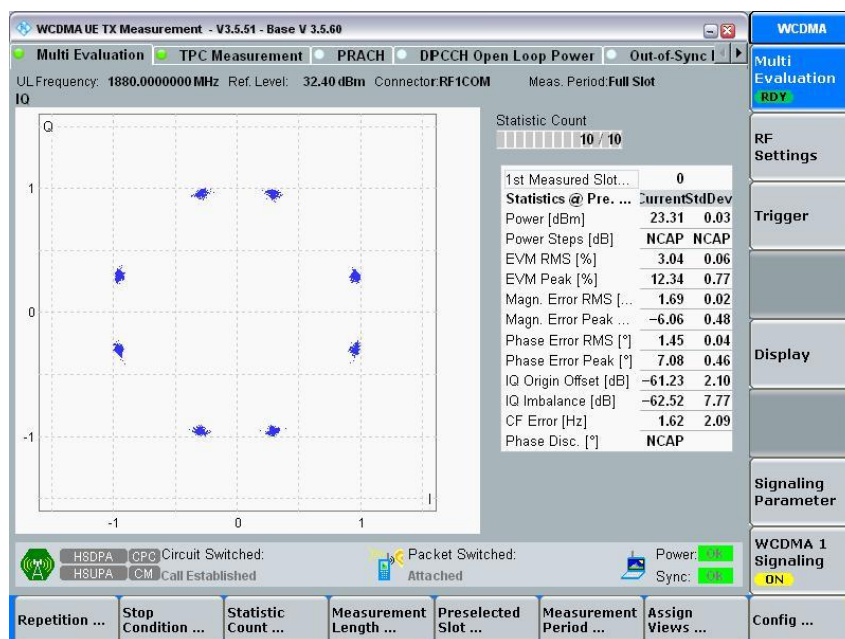


### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band II

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

##### 3.1.1.1. Test Channel = MCH

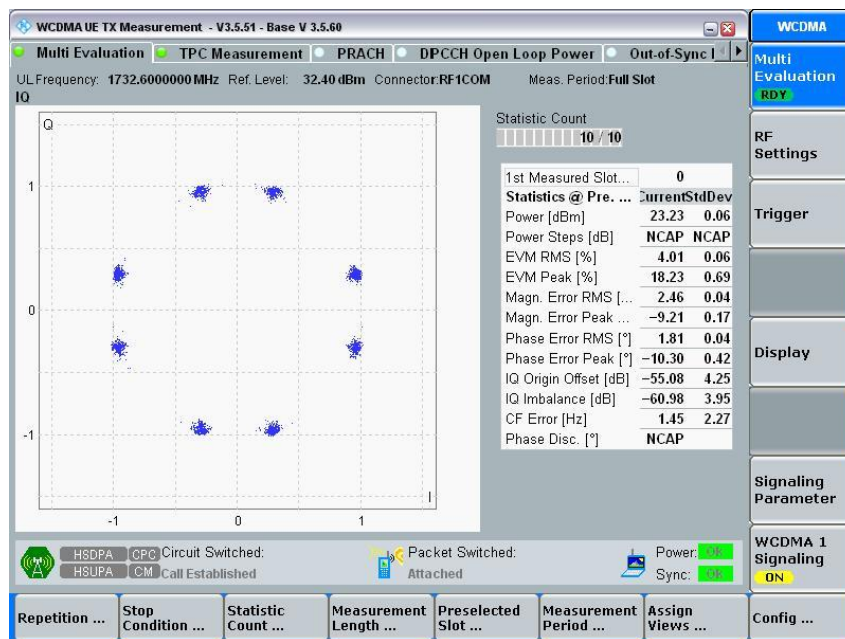


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## 3.2. Test Band = WCDMA Band IV

### 3.2.1. Test Mode = UMTS/TM1

#### 3.2.1.1. Test Channel = MCH

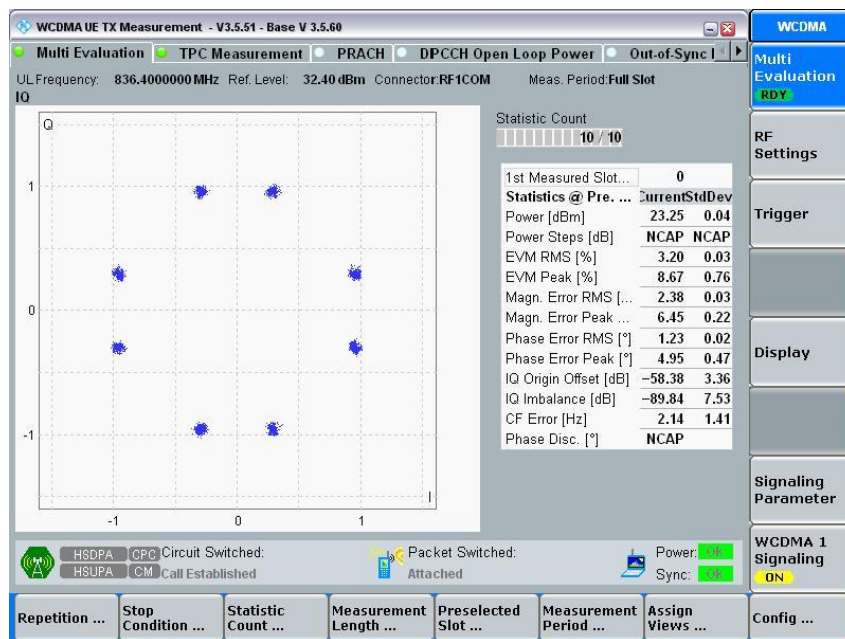


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### 3.3. Test Band = WCDMA Band V

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

##### 3.3.1.1. Test Channel = MCH



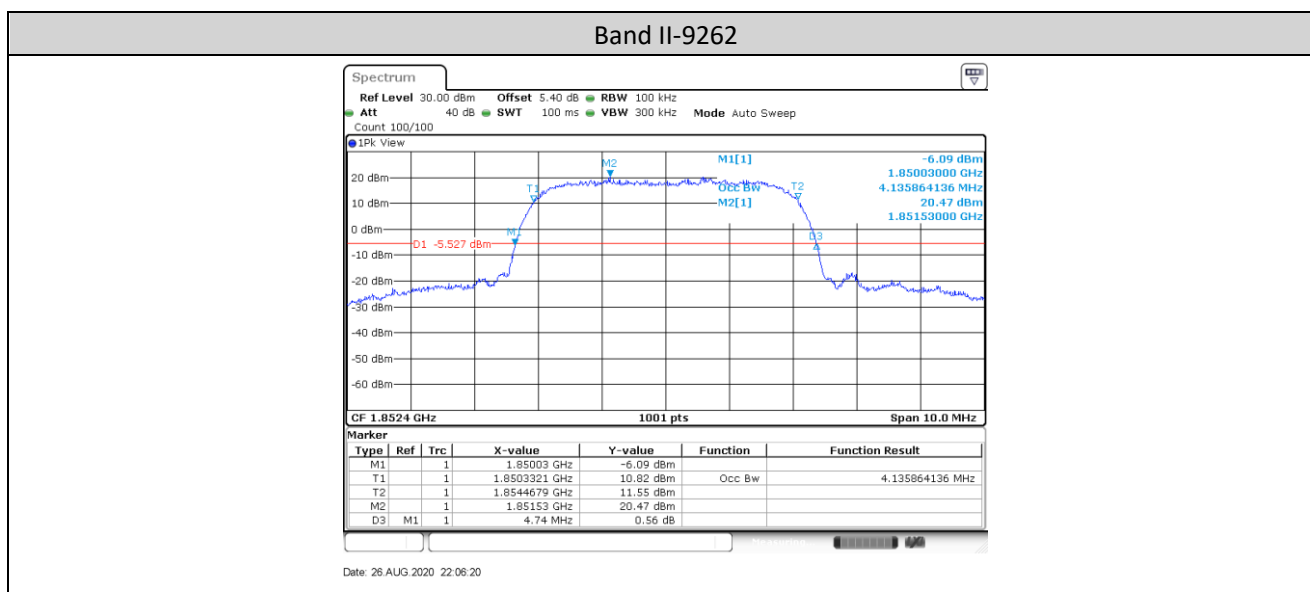
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## 4. 26dB Bandwidth and Occupied Bandwidth

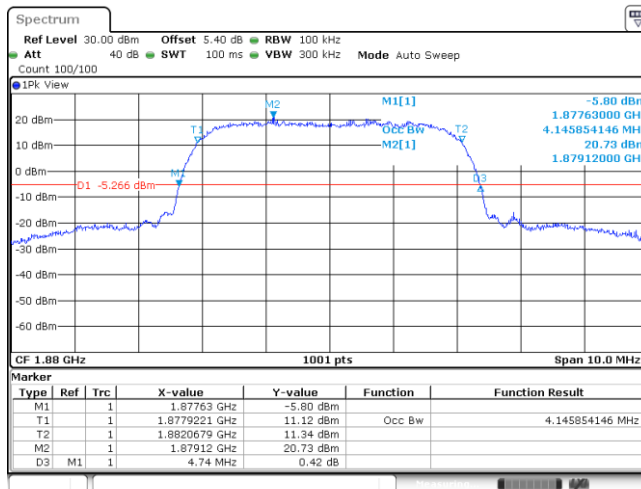
### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4.136	4.740	---	PASS
Band II	9400	4.146	4.740	---	PASS
Band II	9538	4.146	4.740	---	PASS
Band IV	1312	4.116	4.740	---	PASS
Band IV	1413	4.126	4.730	---	PASS
Band IV	1513	4.136	4.750	---	PASS
Band V	4132	4.136	4.720	---	PASS
Band V	4182	4.126	4.720	---	PASS
Band V	4233	4.146	4.730	---	PASS

### 4.2. Test Plots

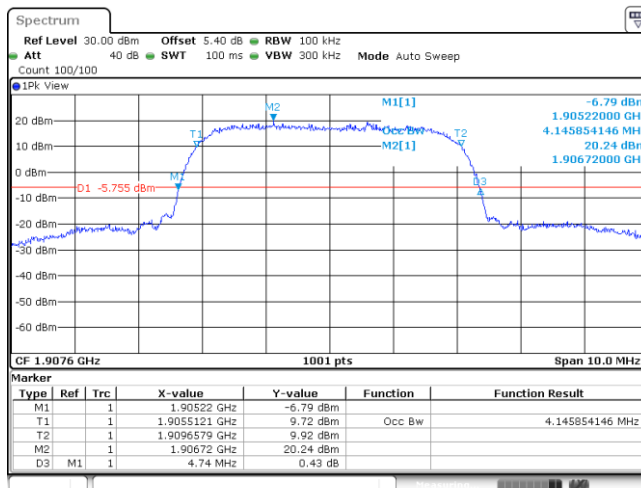


## Band II-9400



Date: 26 AUG 2020 22:06:42

## Band II-9538



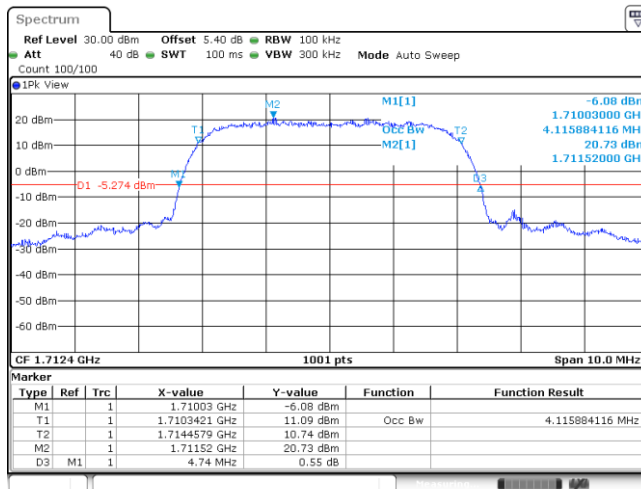
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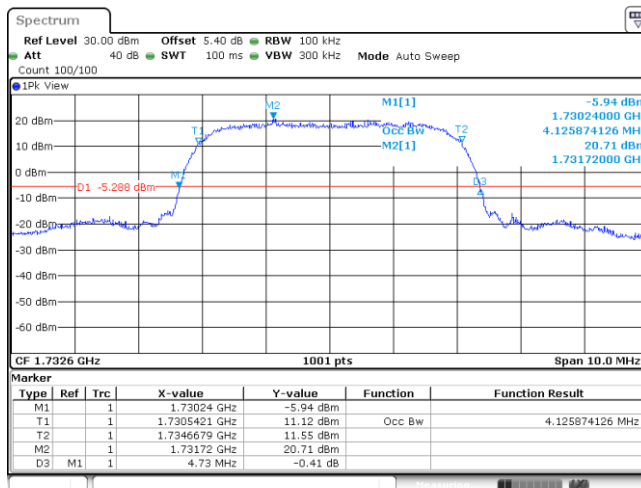
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## Band IV-1312



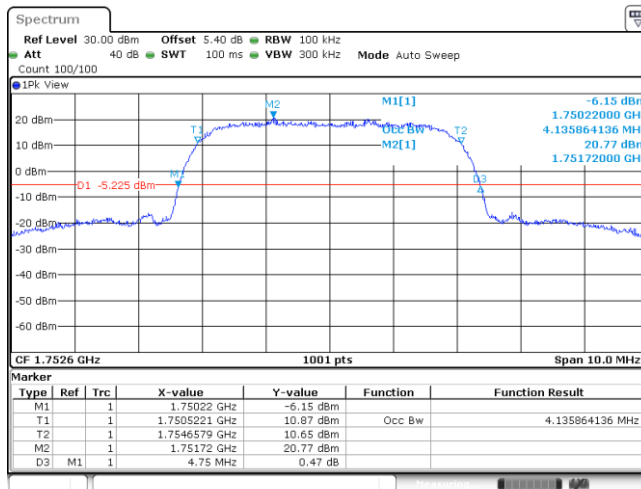
## Band IV-1413



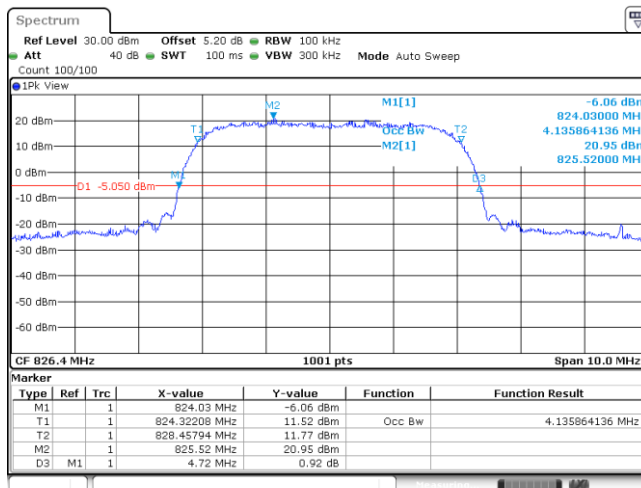
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## Band IV-1513

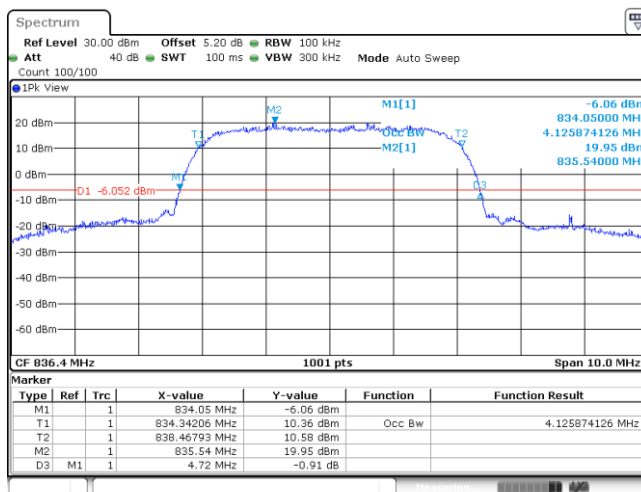


## Band V-4132



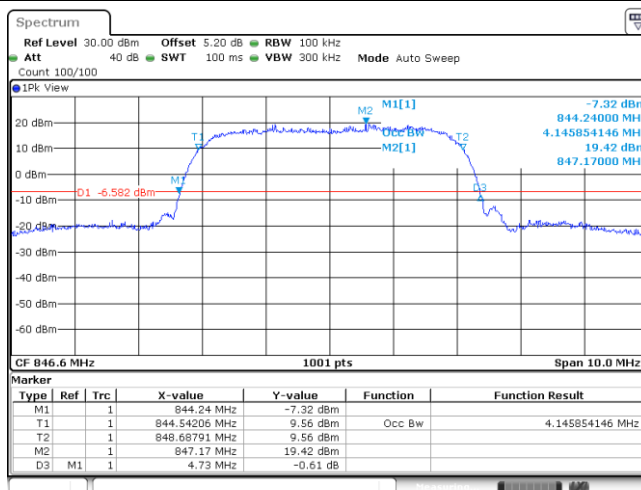
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## Band V-4182



Date: 26 AUG 2020 22:50:15

## Band V-4233

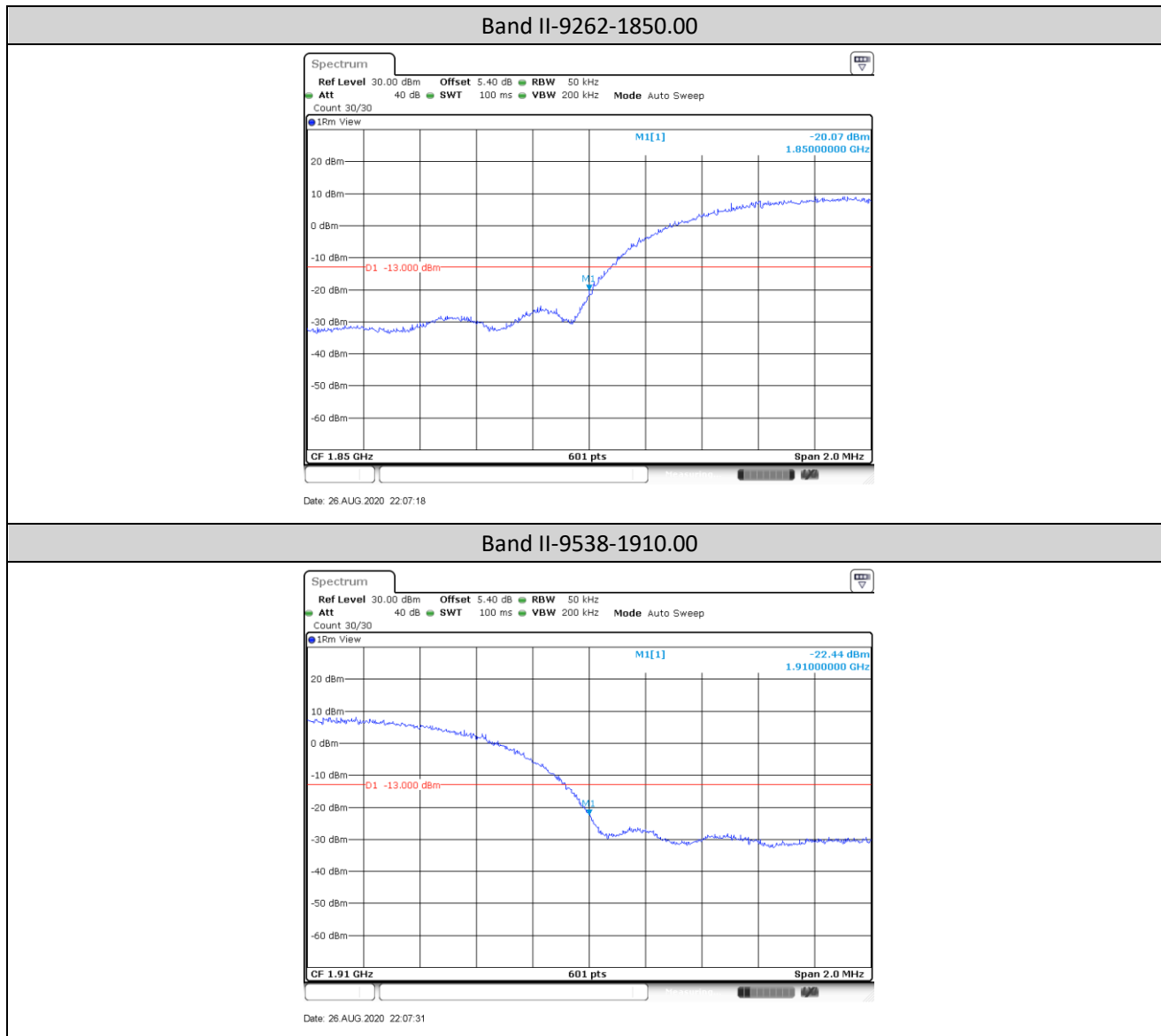


Date: 26 AUG 2020 22:50:37

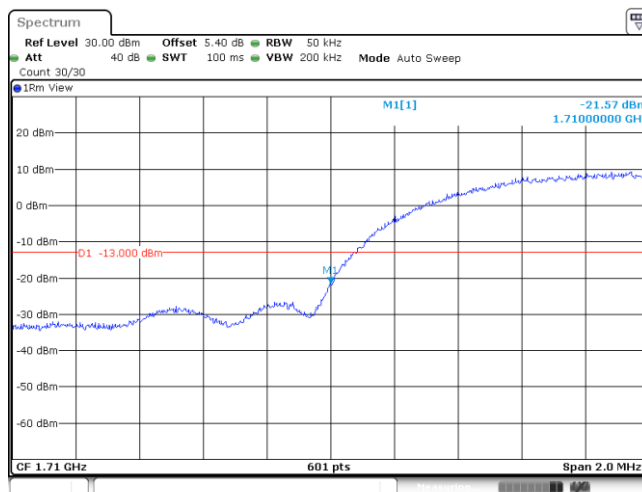


## 5. Band Edge Compliance

### 5.1. Test Plots

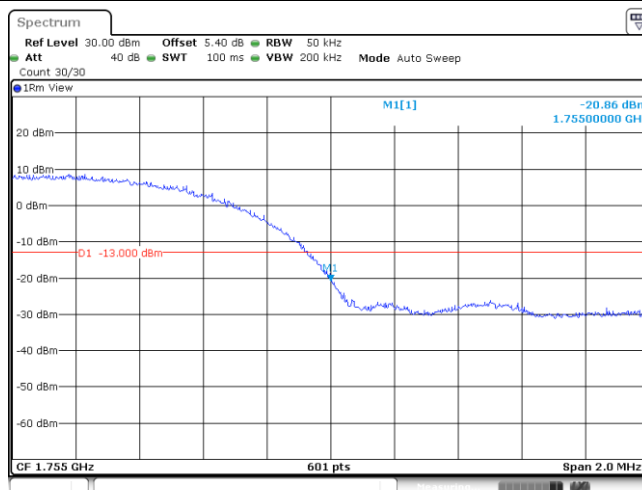


**Band IV-1312-1710.00**



Date: 26 AUG 2020 22:22:40

**Band IV-1513-1755.00**



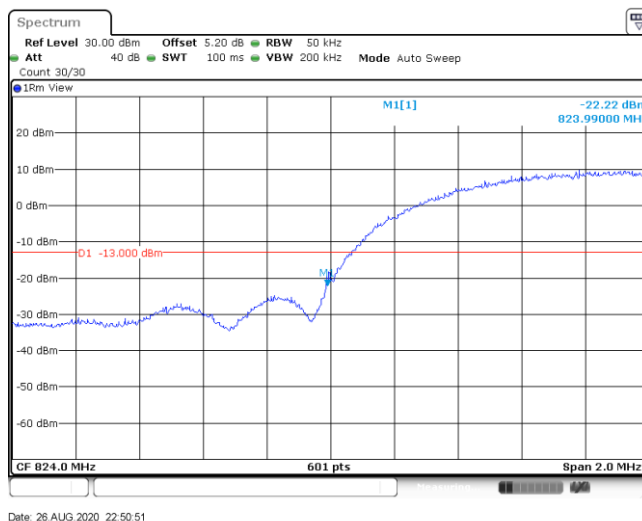
Date: 26 AUG 2020 22:22:54



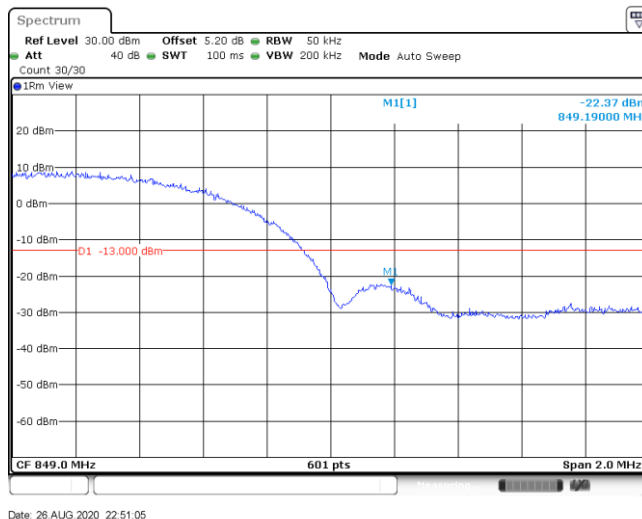
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**Band V-4132-823.99**



**Band V-4233-849.19**



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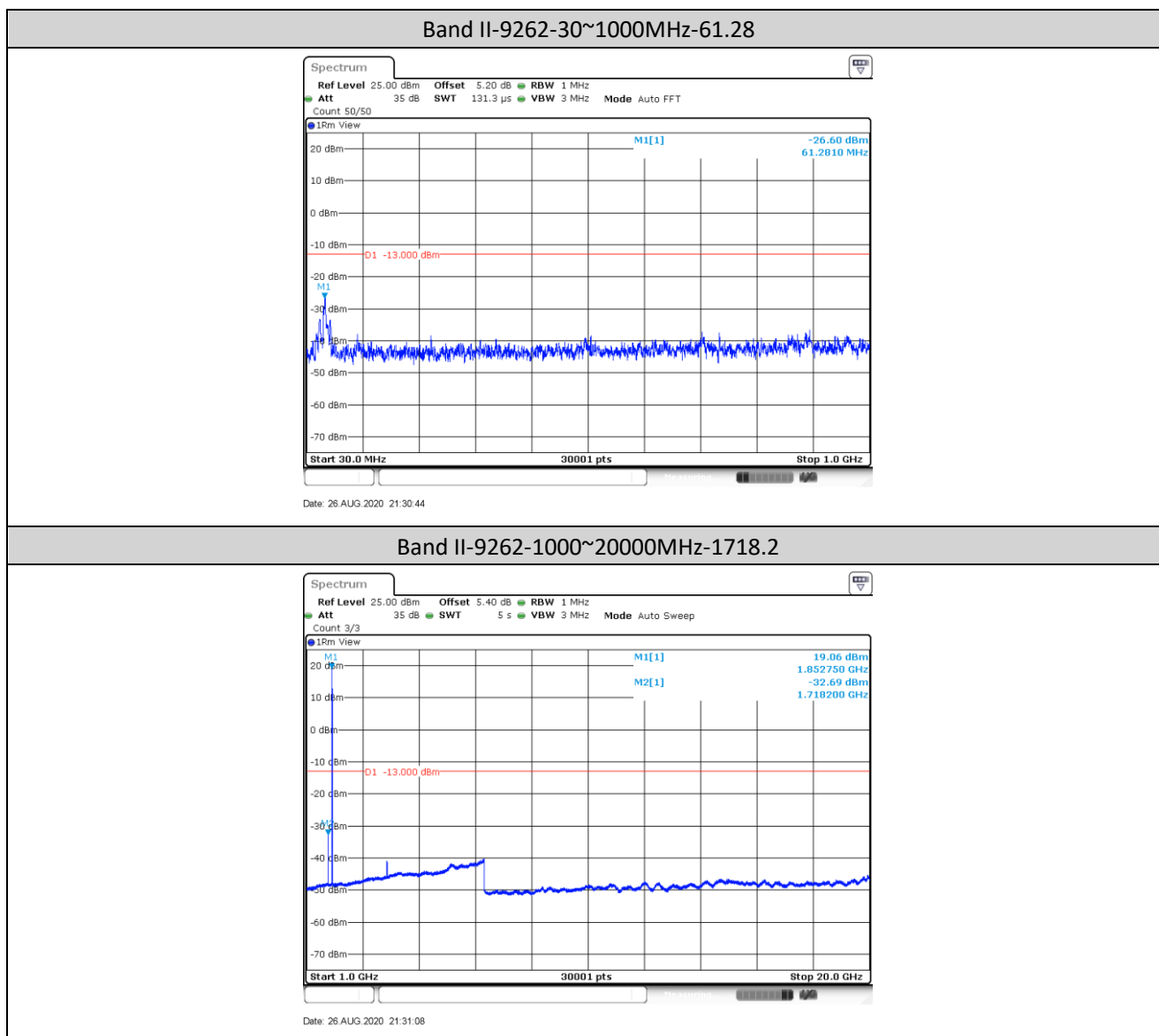
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## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

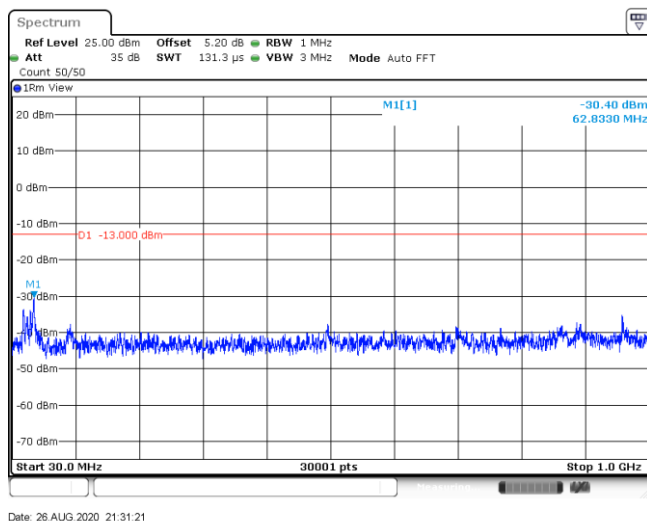
### 6.1. Test Plots



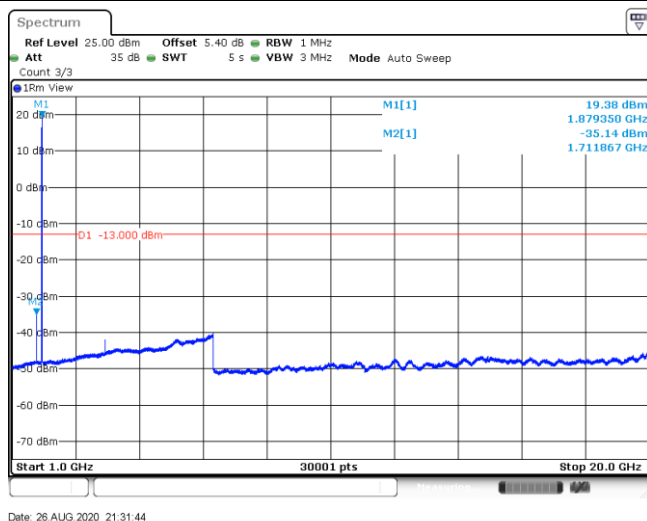
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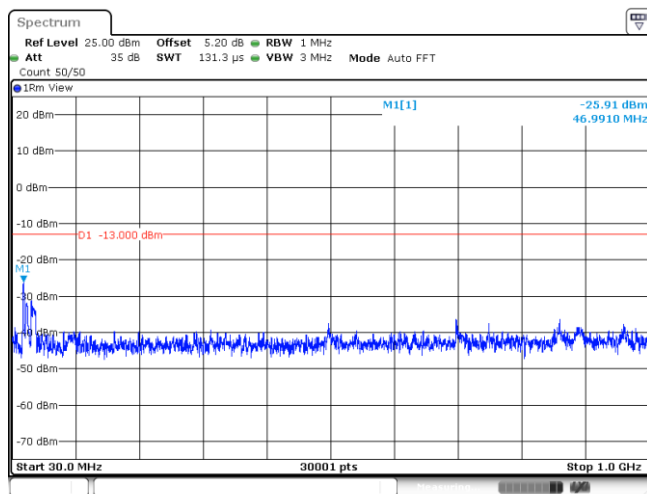
**Band II-9400-30~1000MHz-62.83**



**Band II-9400-1000~20000MHz-1711.87**

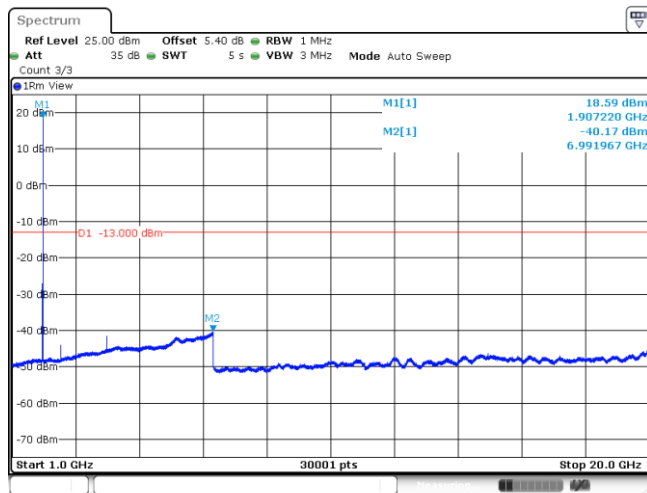


## Band II-9538-30~1000MHz-46.99



Date: 26 AUG 2020 21:31:57

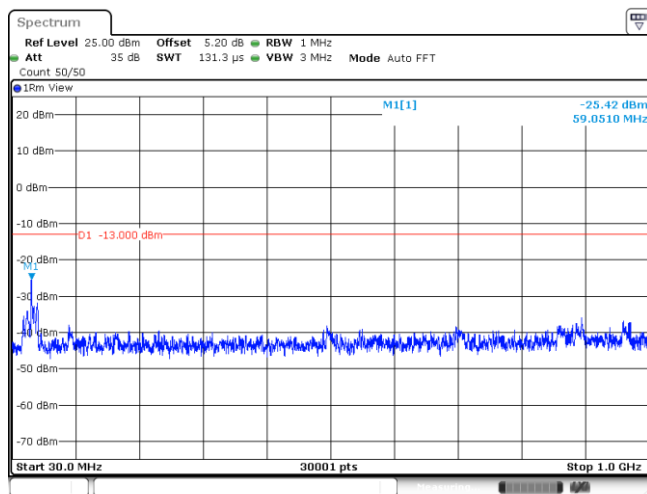
## Band II-9538-1000~20000MHz-6991.97



Date: 26 AUG 2020 21:32:21

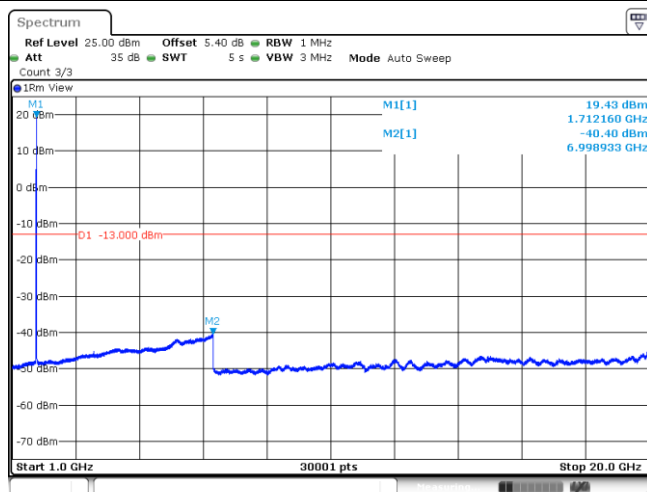


**Band IV-1312-30~1000MHz-59.05**



Date: 26 AUG.2020 21:38:43

**Band IV-1312-1000~20000MHz-6998.93**



Date: 26 AUG.2020 21:39:06

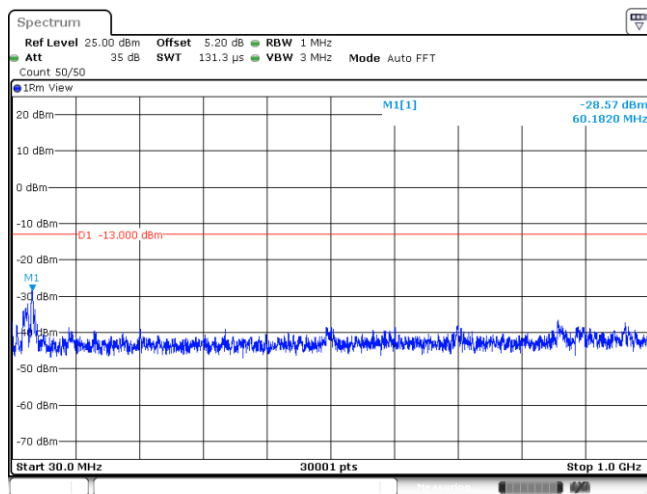


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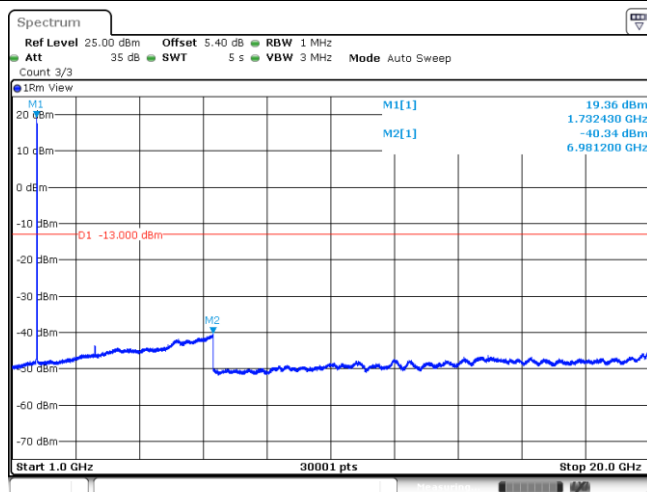
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**Band IV-1413-30~1000MHz-60.18**



Date: 26 AUG.2020 21:39:19

**Band IV-1413-1000~20000MHz-6981.2**



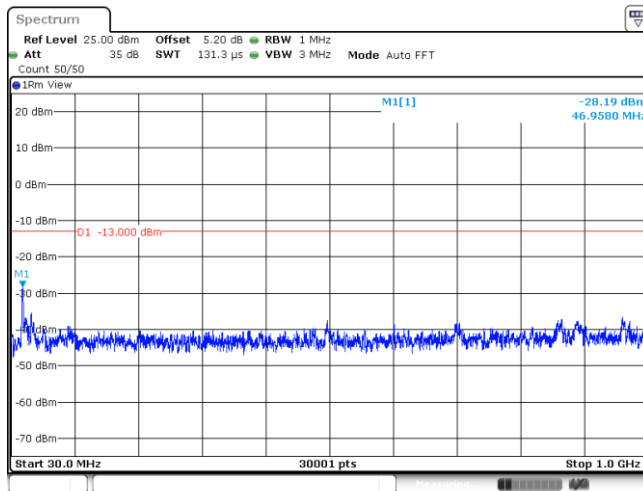
Date: 26 AUG.2020 21:39:42



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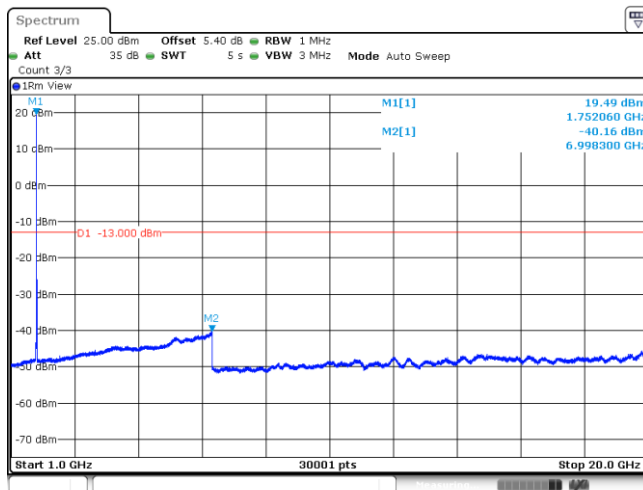
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**Band IV-1513-30~1000MHz-46.96**



Date: 26 AUG.2020 21:39:55

**Band IV-1513-1000~20000MHz-6998.3**



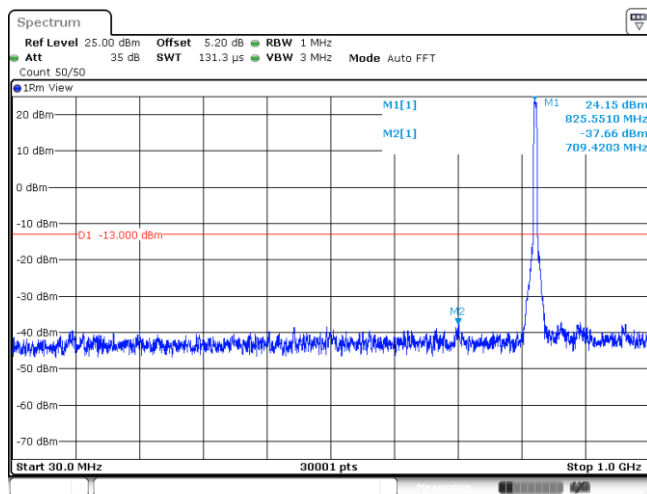
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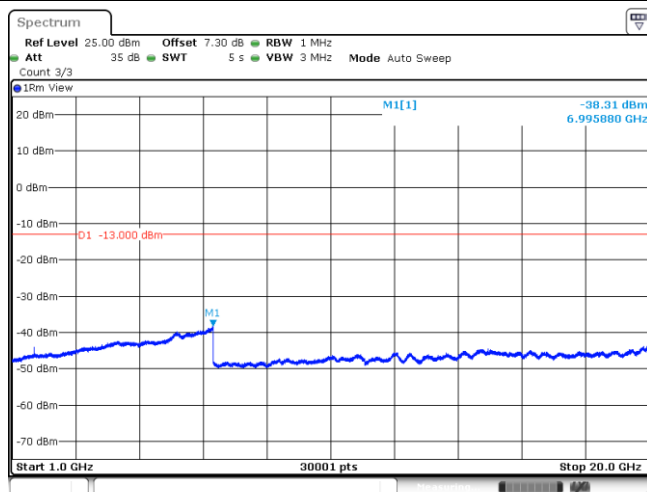
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**Band V-4132-30~1000MHz-709.42**



Date: 26 AUG. 2020 22:51:19

**Band V-4132-1000~20000MHz-6995.88**



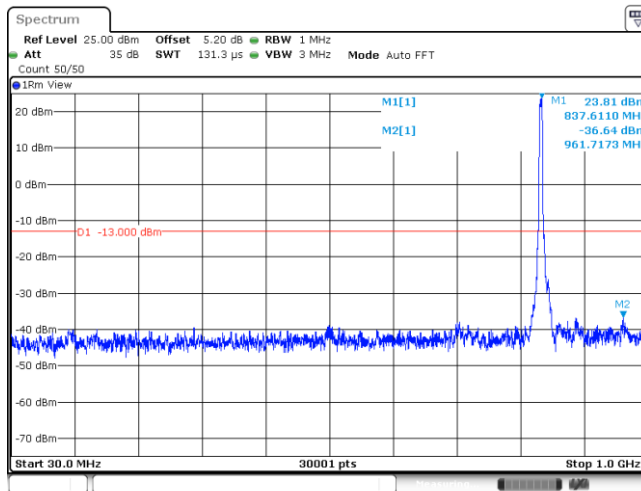
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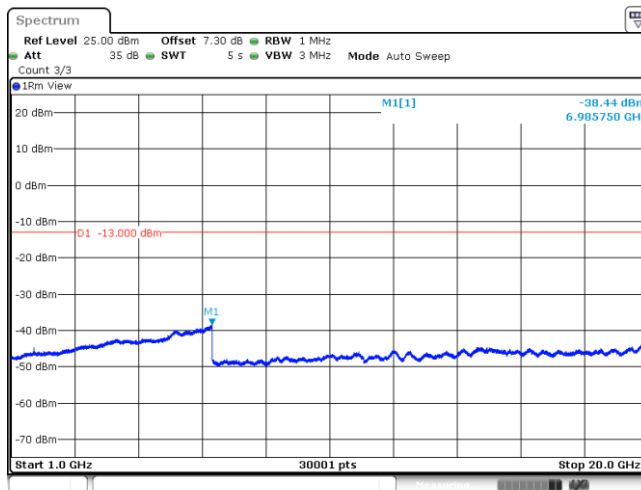
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**Band V-4182-30~1000MHz-961.72**



Date: 26 AUG. 2020 22:51:56

**Band V-4182-1000~20000MHz-6985.75**



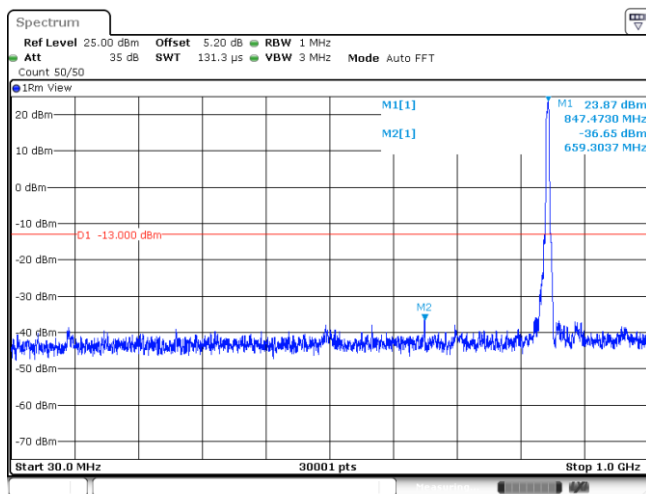
Date: 26 AUG. 2020 22:52:18



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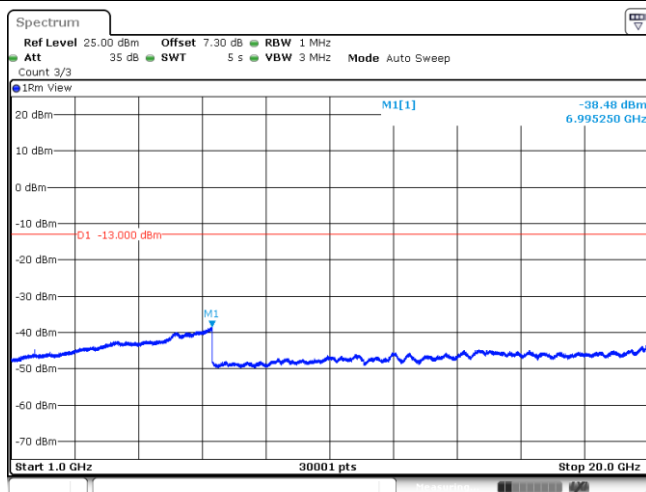
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**Band V-4233-30~1000MHz-659.3**



Date: 26 AUG 2020 22:52:32

**Band V-4233-1000~20000MHz-6995.25**



Date: 26 AUG 2020 22:52:55



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

#### 7.1.1. Test Mode = WCDMA/TM1 (Up Antenna)

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
47.8489	-71.37	-13.00	58.37	198	87	Vertical
110.9505	-64.65	-13.00	51.65	174	247	Vertical
594.8107	-63.32	-13.00	50.32	162	55	Vertical
2697.1394	-36.93	-13.00	23.93	184	324	Vertical
3706.5236	-59.75	-13.00	46.75	192	151	Vertical
17999.5000	-40.43	-13.00	27.43	198	215	Vertical
48.4309	-64.50	-13.00	51.50	198	101	Horizontal
234.6802	-67.60	-13.00	54.60	174	67	Horizontal
498.2424	-65.99	-13.00	52.99	162	101	Horizontal
2699.9400	-35.66	-13.00	22.66	184	360	Horizontal
3706.5236	-53.66	-13.00	40.66	169	353	Horizontal
16399.4466	-43.91	-13.00	30.91	172	182	Horizontal





### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
49.5950	-70.49	-13.00	57.49	241	15	Vertical
111.0476	-64.60	-13.00	51.60	225	155	Vertical
834.0247	-59.25	-13.00	46.25	263	237	Vertical
3758.5253	-60.81	-13.00	47.81	281	272	Vertical
7361.1454	-56.26	-13.00	43.26	257	15	Vertical
17998.5000	-40.01	-13.00	27.01	269	52	Vertical
44.1627	-63.95	-13.00	50.95	141	8	Horizontal
245.1083	-67.24	-13.00	54.24	158	82	Horizontal
583.9462	-64.12	-13.00	51.12	174	82	Horizontal
3762.0254	-55.89	-13.00	42.89	163	42	Horizontal
9343.2114	-52.99	-13.00	39.99	187	188	Horizontal
16407.9469	-43.93	-13.00	30.93	151	226	Horizontal

### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
47.8489	-71.09	-13.00	58.09	241	4	Vertical
118.5654	-64.32	-13.00	51.32	225	69	Vertical
632.7881	-63.73	-13.00	50.73	263	4	Vertical
3814.0271	-61.05	-13.00	48.05	287	4	Vertical
7322.1441	-55.93	-13.00	42.93	248	316	Vertical
17995.9999	-39.83	-13.00	26.83	256	316	Vertical
40.5250	-64.09	-13.00	51.09	198	192	Horizontal
232.0126	-67.17	-13.00	54.17	175	48	Horizontal
507.1184	-66.10	-13.00	53.10	168	226	Horizontal
3816.5272	-55.81	-13.00	42.81	184	356	Horizontal
7461.6487	-56.18	-13.00	43.18	192	325	Horizontal
16395.9465	-44.05	-13.00	31.05	187	325	Horizontal



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## 7.1.2. Test Mode = WCDMA/TM1 (Down Antenna)

### 7.1.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
49.3525	-72.33	-13.00	59.33	241	134	Vertical
115.8978	-64.44	-13.00	51.44	247	7	Vertical
440.2820	-67.24	-13.00	54.24	258	229	Vertical
3729.0243	-62.19	-13.00	49.19	262	198	Vertical
7385.6462	-56.28	-13.00	43.28	271	356	Vertical
17989.4997	-40.66	-13.00	27.66	284	198	Vertical
44.8417	-64.39	-13.00	51.39	187	7	Horizontal
96.6908	-75.29	-13.00	62.29	165	7	Horizontal
232.4491	-67.82	-13.00	54.82	174	293	Horizontal
3707.0236	-57.51	-13.00	44.51	195	7	Horizontal
7988.1663	-56.43	-13.00	43.43	188	293	Horizontal
16393.9465	-44.29	-13.00	31.29	172	325	Horizontal



### 7.1.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
52.5536	-72.67	-13.00	59.67	254	6	Vertical
111.0476	-65.26	-13.00	52.26	274	70	Vertical
603.4442	-64.36	-13.00	51.36	258	6	Vertical
3626.0209	-61.74	-13.00	48.74	255	165	Vertical
7380.6460	-55.68	-13.00	42.68	265	165	Vertical
17996.9999	-40.31	-13.00	27.31	281	229	Vertical
41.0101	-64.14	-13.00	51.14	184	71	Horizontal
96.1088	-76.08	-13.00	63.08	197	134	Horizontal
247.4849	-68.28	-13.00	55.28	165	134	Horizontal
3758.0253	-58.75	-13.00	45.75	187	7	Horizontal
7472.1491	-56.88	-13.00	43.88	187	71	Horizontal
16390.9464	-43.94	-13.00	30.94	162	198	Horizontal

### 7.1.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
31.1156	-74.96	-13.00	61.96	241	7	Vertical
109.9320	-64.20	-13.00	51.20	257	7	Vertical
400.8010	-67.57	-13.00	54.57	263	261	Vertical
5074.0691	-62.33	-13.00	49.33	284	166	Vertical
8002.6668	-56.20	-13.00	43.20	271	293	Vertical
17996.9999	-40.87	-13.00	27.87	259	71	Vertical
41.1556	-64.31	-13.00	51.31	187	325	Horizontal
101.0076	-75.73	-13.00	62.73	157	261	Horizontal
232.9341	-67.95	-13.00	54.95	162	71	Horizontal
3817.0272	-61.23	-13.00	48.23	187	230	Horizontal
7455.1485	-56.48	-13.00	43.48	154	166	Horizontal
16392.9464	-43.69	-13.00	30.69	192	325	Horizontal



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## 7.2. Test Band = WCDMA Band IV (Up 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
49.9345	-69.48	-13.00	56.48	224	4	Vertical
115.7038	-62.52	-13.00	49.52	258	38	Vertical
553.6322	-63.30	-13.00	50.30	274	4	Vertical
3597.5199	-60.57	-13.00	47.57	263	314	Vertical
7498.6500	-53.40	-13.00	40.40	281	215	Vertical
17988.9996	-34.10	-13.00	21.10	257	38	Vertical
40.7675	-62.47	-13.00	49.47	198	184	Horizontal
237.8329	-65.58	-13.00	52.58	175	184	Horizontal
562.2656	-61.50	-13.00	48.50	163	1	Horizontal
3426.5142	-48.24	-13.00	35.24	187	184	Horizontal
7456.1485	-53.82	-13.00	40.82	165	1	Horizontal
16399.9467	-35.59	-13.00	22.59	184	62	Horizontal



### 7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
50.3710	-70.31	-13.00	57.31	241	95	Vertical
111.6781	-62.74	-13.00	49.74	254	52	Vertical
285.1228	-66.72	-13.00	53.72	263	52	Vertical
5598.0866	-59.27	-13.00	46.27	287	95	Vertical
9775.2258	-49.48	-13.00	36.48	264	274	Vertical
17991.4997	-34.21	-13.00	21.21	228	274	Vertical
44.1627	-62.42	-13.00	49.42	198	35	Horizontal
81.7036	-72.38	-13.00	59.38	174	68	Horizontal
244.3322	-65.28	-13.00	52.28	165	35	Horizontal
3463.5155	-52.29	-13.00	39.29	184	188	Horizontal
7477.6493	-53.75	-13.00	40.75	199	222	Horizontal
16397.9466	-35.44	-13.00	22.44	174	99	Horizontal

### 7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
30.9700	-73.98	-13.00	60.98	224	180	Vertical
109.9805	-63.35	-13.00	50.35	258	180	Vertical
368.3529	-65.53	-13.00	52.53	263	144	Vertical
3507.5169	-59.01	-13.00	46.01	274	180	Vertical
7418.6473	-53.30	-13.00	40.30	251	144	Vertical
17997.4999	-34.36	-13.00	21.36	268	277	Vertical
46.3938	-62.89	-13.00	49.89	187	191	Horizontal
104.6452	-73.36	-13.00	60.36	162	157	Horizontal
241.8101	-65.18	-13.00	52.18	184	265	Horizontal
3503.5168	-47.89	-13.00	34.89	175	191	Horizontal
7443.1481	-53.71	-13.00	40.71	163	265	Horizontal
16403.9468	-35.73	-13.00	22.73	194	90	Horizontal



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### 7.3. Test Band = WCDMA Band IV (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
48.4309	-70.89	-13.00	57.89	241	5	Vertical
110.9020	-62.89	-13.00	49.89	224	5	Vertical
343.0347	-66.55	-13.00	53.55	259	5	Vertical
3591.5197	-60.42	-13.00	47.42	271	167	Vertical
7482.6494	-53.10	-13.00	40.10	256	356	Vertical
17997.9999	-34.08	-13.00	21.08	281	5	Vertical
44.5022	-62.85	-13.00	49.85	241	292	Horizontal
98.8249	-73.84	-13.00	60.84	257	292	Horizontal
236.2808	-64.93	-13.00	51.93	258	229	Horizontal
3423.0141	-57.82	-13.00	44.82	263	325	Horizontal
7452.6484	-53.87	-13.00	40.87	247	325	Horizontal
16385.4462	-35.58	-13.00	22.58	251	68	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
49.7890	-70.55	-13.00	57.55	241	70	Vertical
108.4769	-62.54	-13.00	49.54	221	261	Vertical
291.6706	-66.26	-13.00	53.26	258	261	Vertical
5061.5687	-60.16	-13.00	47.16	263	102	Vertical
9304.7102	-49.67	-13.00	36.67	271	38	Vertical
17988.9996	-33.98	-13.00	20.98	259	166	Vertical
41.2041	-62.66	-13.00	49.66	187	198	Horizontal
87.7664	-72.68	-13.00	59.68	194	39	Horizontal
233.2737	-64.70	-13.00	51.70	175	325	Horizontal
3464.0155	-56.57	-13.00	43.57	162	325	Horizontal
7362.6454	-54.46	-13.00	41.46	184	7	Horizontal
16399.4466	-35.29	-13.00	22.29	241	293	Horizontal

### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
31.1156	-74.42	-13.00	61.42	241	7	Vertical
109.8350	-62.91	-13.00	49.91	258	102	Vertical
290.3610	-65.75	-13.00	52.75	274	166	Vertical
3843.5281	-60.80	-13.00	47.80	263	356	Vertical
7435.6479	-53.46	-13.00	40.46	284	7	Vertical
17992.9998	-33.91	-13.00	20.91	296	70	Vertical
42.3681	-62.82	-13.00	49.82	187	166	Horizontal
85.2928	-72.86	-13.00	59.86	165	70	Horizontal
232.5461	-65.23	-13.00	52.23	184	293	Horizontal
3503.5168	-58.12	-13.00	45.12	192	7	Horizontal
7435.1478	-53.30	-13.00	40.30	178	229	Horizontal
16399.4466	-35.38	-13.00	22.38	161	229	Horizontal



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## 7.4. Test Band = WCDMA Band V(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
49.6435	-71.10	-13.00	58.10	241	12	Vertical
115.8493	-65.39	-13.00	52.39	258	316	Vertical
299.4795	-69.14	-13.00	56.14	263	12	Vertical
1554.1108	-62.04	-13.00	49.04	274	200	Vertical
2655.5311	-51.51	-13.00	38.51	259	11	Vertical
9882.8628	-52.33	-13.00	39.33	261	182	Vertical
44.5507	-64.62	-13.00	51.62	187	196	Horizontal
99.8435	-75.63	-13.00	62.63	162	264	Horizontal
247.1454	-67.12	-13.00	54.12	184	57	Horizontal
1653.7307	-61.26	-13.00	48.26	198	298	Horizontal
2701.5403	-50.87	-13.00	37.87	175	311	Horizontal
9309.0770	-52.47	-13.00	39.47	162	196	Horizontal



#### 7.4.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
50.7590	-72.40	-13.00	59.40	222	56	Vertical
110.9505	-65.11	-13.00	52.11	247	24	Vertical
340.5125	-68.77	-13.00	55.77	256	156	Vertical
1568.9138	-61.75	-13.00	48.75	284	291	Vertical
2653.1306	-51.30	-13.00	38.30	214	360	Vertical
9889.6297	-52.35	-13.00	39.35	226	255	Vertical
44.6477	-64.03	-13.00	51.03	198	351	Horizontal
169.2020	-71.73	-13.00	58.73	174	220	Horizontal
231.8671	-68.09	-13.00	55.09	162	55	Horizontal
1699.7399	-60.58	-13.00	47.58	184	92	Horizontal
2655.5311	-50.75	-13.00	37.75	136	130	Horizontal
9544.9848	-52.83	-13.00	39.83	187	319	Horizontal

#### 7.4.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
48.7219	-71.97	-13.00	58.97	274	43	Vertical
110.0290	-64.36	-13.00	51.36	251	133	Vertical
337.8934	-68.06	-13.00	55.06	263	216	Vertical
1700.1400	-59.42	-13.00	46.42	281	245	Vertical
2652.3305	-51.73	-13.00	38.73	274	229	Vertical
9847.6283	-52.40	-13.00	39.40	226	43	Vertical
46.1998	-64.42	-13.00	51.42	187	118	Horizontal
237.2024	-68.18	-13.00	55.18	162	51	Horizontal
407.3489	-68.00	-13.00	55.00	184	19	Horizontal
1600.1200	-61.37	-13.00	48.37	195	62	Horizontal
2653.5307	-50.76	-13.00	37.76	176	175	Horizontal
9295.3098	-52.43	-13.00	39.43	182	155	Horizontal



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## 7.5. Test Band = WCDMA Band V(Down 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
50.8560	-72.31	-13.00	59.31	241	325	Vertical
110.3685	-65.27	-13.00	52.27	258	325	Vertical
319.3170	-68.87	-13.00	55.87	263	39	Vertical
1642.1284	-61.07	-13.00	48.07	271	360	Vertical
2699.5399	-52.01	-13.00	39.01	259	129	Vertical
7458.9153	-56.38	-13.00	43.38	291	325	Vertical
41.8831	-64.25	-13.00	51.25	198	229	Horizontal
102.7536	-75.40	-13.00	62.40	174	7	Horizontal
236.1353	-67.85	-13.00	54.85	162	134	Horizontal
1653.7307	-60.53	-13.00	47.53	184	214	Horizontal
2589.9180	-50.38	-13.00	37.38	195	119	Horizontal
7365.8122	-56.30	-13.00	43.30	184	70	Horizontal





### 7.5.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
55.3668	-72.02	-13.00	59.02	241	230	Vertical
108.9134	-65.37	-13.00	52.37	222	41	Vertical
523.9487	-65.72	-13.00	52.72	271	199	Vertical
1811.3623	-60.16	-13.00	47.16	263	93	Vertical
2577.1154	-52.38	-13.00	39.38	187	116	Vertical
7379.1126	-55.85	-13.00	42.85	259	294	Vertical
44.7932	-64.84	-13.00	51.84	184	38	Horizontal
100.5710	-75.74	-13.00	62.74	174	164	Horizontal
236.7658	-68.34	-13.00	55.34	165	325	Horizontal
1800.1600	-59.57	-13.00	46.57	194	305	Horizontal
2700.3401	-50.94	-13.00	37.94	175	286	Horizontal
7985.5662	-56.61	-13.00	43.61	162	133	Horizontal

### 7.5.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
54.2027	-72.03	-13.00	59.03	263	103	Vertical
106.8278	-65.79	-13.00	52.79	222	8	Vertical
389.8395	-67.36	-13.00	54.36	285	261	Vertical
1700.1400	-59.98	-13.00	46.98	291	285	Vertical
2861.5723	-51.85	-13.00	38.85	236	190	Vertical
7356.2452	-55.45	-13.00	42.45	218	198	Vertical
41.0586	-64.85	-13.00	51.85	185	7	Horizontal
229.3935	-68.15	-13.00	55.15	152	166	Horizontal
1599.7199	-61.30	-13.00	48.30	136	288	Horizontal
2699.1398	-50.89	-13.00	37.89	155	250	Horizontal
7455.8819	-56.80	-13.00	43.80	196	293	Horizontal
9307.6769	-52.66	-13.00	39.66	106	102	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.





## 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	NT	0.95	0.000513	±2.5	PASS
Band II	9262	VN	NT	0.73	0.000394	±2.5	PASS
Band II	9262	VH	NT	1.18	0.000637	±2.5	PASS
Band II	9400	VL	NT	-2.21	-0.001176	±2.5	PASS
Band II	9400	VN	NT	-2.37	-0.001261	±2.5	PASS
Band II	9400	VH	NT	-2.20	-0.001170	±2.5	PASS
Band II	9538	VL	NT	-7.50	-0.003932	±2.5	PASS
Band II	9538	VN	NT	-7.43	-0.003895	±2.5	PASS
Band II	9538	VH	NT	-7.44	-0.003900	±2.5	PASS
Band IV	1312	VL	NT	14.72	0.008596	±2.5	PASS
Band IV	1312	VN	NT	10.96	0.006400	±2.5	PASS
Band IV	1312	VH	NT	15.74	0.009192	±2.5	PASS
Band IV	1413	VL	NT	-2.20	-0.001270	±2.5	PASS
Band IV	1413	VN	NT	-2.66	-0.001535	±2.5	PASS
Band IV	1413	VH	NT	-2.73	-0.001576	±2.5	PASS
Band IV	1513	VL	NT	-19.73	-0.011258	±2.5	PASS
Band IV	1513	VN	NT	-19.92	-0.011366	±2.5	PASS
Band IV	1513	VH	NT	-19.75	-0.011269	±2.5	PASS
Band V	4132	VL	NT	-0.55	-0.000666	±2.5	PASS
Band V	4132	VN	NT	-0.24	-0.000290	±2.5	PASS
Band V	4132	VH	NT	-0.32	-0.000387	±2.5	PASS
Band V	4182	VL	NT	0.14	0.000167	±2.5	PASS
Band V	4182	VN	NT	0.02	0.000024	±2.5	PASS
Band V	4182	VH	NT	0.04	0.000048	±2.5	PASS
Band V	4233	VL	NT	0.80	0.000945	±2.5	PASS
Band V	4233	VN	NT	0.75	0.000886	±2.5	PASS
Band V	4233	VH	NT	0.84	0.000992	±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	NV	-30	1.46	0.000788	±2.5	PASS
Band II	9262	NV	-20	1.49	0.000804	±2.5	PASS
Band II	9262	NV	-10	1.67	0.000902	±2.5	PASS
Band II	9262	NV	0	1.95	0.001053	±2.5	PASS
Band II	9262	NV	10	2.05	0.001107	±2.5	PASS
Band II	9262	NV	20	2.36	0.001274	±2.5	PASS
Band II	9262	NV	30	2.18	0.001177	±2.5	PASS
Band II	9262	NV	40	2.33	0.001258	±2.5	PASS
Band II	9262	NV	50	2.23	0.001204	±2.5	PASS
Band II	9400	NV	-30	-2.08	-0.001106	±2.5	PASS
Band II	9400	NV	-20	-2.09	-0.001112	±2.5	PASS
Band II	9400	NV	-10	-2.20	-0.001170	±2.5	PASS
Band II	9400	NV	0	-2.20	-0.001170	±2.5	PASS
Band II	9400	NV	10	-1.93	-0.001027	±2.5	PASS
Band II	9400	NV	20	-2.22	-0.001181	±2.5	PASS
Band II	9400	NV	30	-2.10	-0.001117	±2.5	PASS
Band II	9400	NV	40	-2.16	-0.001149	±2.5	PASS
Band II	9400	NV	50	-2.19	-0.001165	±2.5	PASS
Band II	9538	NV	-30	-7.46	-0.003911	±2.5	PASS
Band II	9538	NV	-20	-7.62	-0.003995	±2.5	PASS
Band II	9538	NV	-10	-7.50	-0.003932	±2.5	PASS
Band II	9538	NV	0	-7.52	-0.003942	±2.5	PASS
Band II	9538	NV	10	-7.47	-0.003916	±2.5	PASS
Band II	9538	NV	20	-7.55	-0.003958	±2.5	PASS
Band II	9538	NV	30	-7.52	-0.003942	±2.5	PASS
Band II	9538	NV	40	-7.57	-0.003968	±2.5	PASS
Band II	9538	NV	50	-7.50	-0.003932	±2.5	PASS
Band IV	1312	NV	-30	16.31	0.009525	±2.5	PASS
Band IV	1312	NV	-20	16.79	0.009805	±2.5	PASS
Band IV	1312	NV	-10	16.94	0.009893	±2.5	PASS
Band IV	1312	NV	0	17.07	0.009968	±2.5	PASS
Band IV	1312	NV	10	17.09	0.009980	±2.5	PASS
Band IV	1312	NV	20	17.34	0.010126	±2.5	PASS



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Band IV	1312	NV	30	17.32	0.010114	±2.5	PASS
Band IV	1312	NV	40	17.49	0.010214	±2.5	PASS
Band IV	1312	NV	50	17.19	0.010039	±2.5	PASS
Band IV	1413	NV	-30	-2.44	-0.001408	±2.5	PASS
Band IV	1413	NV	-20	-2.47	-0.001426	±2.5	PASS
Band IV	1413	NV	-10	-1.90	-0.001097	±2.5	PASS
Band IV	1413	NV	0	-2.32	-0.001339	±2.5	PASS
Band IV	1413	NV	10	-2.65	-0.001529	±2.5	PASS
Band IV	1413	NV	20	-2.25	-0.001299	±2.5	PASS
Band IV	1413	NV	30	-2.42	-0.001397	±2.5	PASS
Band IV	1413	NV	40	-1.60	-0.000923	±2.5	PASS
Band IV	1413	NV	50	-2.30	-0.001327	±2.5	PASS
Band IV	1513	NV	-30	-19.82	-0.011309	±2.5	PASS
Band IV	1513	NV	-20	-19.91	-0.011360	±2.5	PASS
Band IV	1513	NV	-10	-20.06	-0.011446	±2.5	PASS
Band IV	1513	NV	0	-19.96	-0.011389	±2.5	PASS
Band IV	1513	NV	10	-20.23	-0.011543	±2.5	PASS
Band IV	1513	NV	20	-20.07	-0.011452	±2.5	PASS
Band IV	1513	NV	30	-20.03	-0.011429	±2.5	PASS
Band IV	1513	NV	40	-20.06	-0.011446	±2.5	PASS
Band IV	1513	NV	50	-20.07	-0.011452	±2.5	PASS
Band V	4132	NV	-30	-0.43	-0.000520	±2.5	PASS
Band V	4132	NV	-20	-0.42	-0.000508	±2.5	PASS
Band V	4132	NV	-10	-0.41	-0.000496	±2.5	PASS
Band V	4132	NV	0	-0.34	-0.000411	±2.5	PASS
Band V	4132	NV	10	-0.27	-0.000327	±2.5	PASS
Band V	4132	NV	20	-0.29	-0.000351	±2.5	PASS
Band V	4132	NV	30	-0.33	-0.000399	±2.5	PASS
Band V	4132	NV	40	-0.26	-0.000315	±2.5	PASS
Band V	4132	NV	50	-0.31	-0.000375	±2.5	PASS
Band V	4182	NV	-30	0.13	0.000155	±2.5	PASS
Band V	4182	NV	-20	-0.03	-0.000036	±2.5	PASS
Band V	4182	NV	-10	0.08	0.000096	±2.5	PASS
Band V	4182	NV	0	0.13	0.000155	±2.5	PASS
Band V	4182	NV	10	0.01	0.000012	±2.5	PASS
Band V	4182	NV	20	-0.01	-0.000012	±2.5	PASS
Band V	4182	NV	30	0.14	0.000167	±2.5	PASS



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Band V	4182	NV	40	0.05	0.000060	±2.5	PASS
Band V	4182	NV	50	0.04	0.000048	±2.5	PASS
Band V	4233	NV	-30	0.87	0.001028	±2.5	PASS
Band V	4233	NV	-20	0.89	0.001051	±2.5	PASS
Band V	4233	NV	-10	0.82	0.000969	±2.5	PASS
Band V	4233	NV	0	0.83	0.000980	±2.5	PASS
Band V	4233	NV	10	0.83	0.000980	±2.5	PASS
Band V	4233	NV	20	0.83	0.000980	±2.5	PASS
Band V	4233	NV	30	0.77	0.000910	±2.5	PASS
Band V	4233	NV	40	0.86	0.001016	±2.5	PASS
Band V	4233	NV	50	0.73	0.000862	±2.5	PASS

The End

