

# Appendix B

## WCDMA Band II & V



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.54	23.56	33.00	PASS
Band II	9400	23.46	23.48	33.00	PASS
Band II	9538	23.45	23.47	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.28	25.13	38.45	PASS
Band V	4182	24.24	25.09	38.45	PASS
Band V	4233	24.25	25.1	38.45	PASS

Remark:

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

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

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



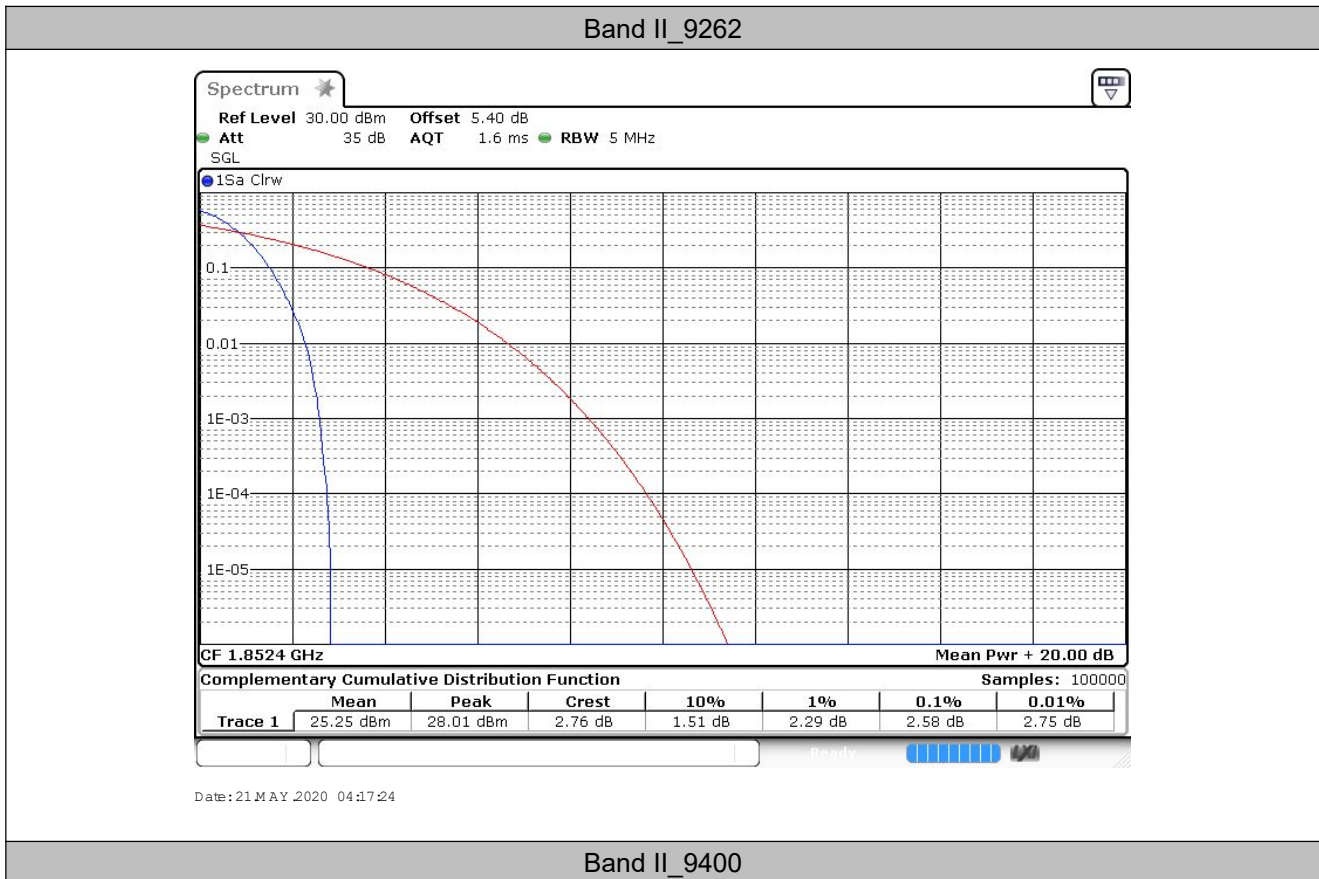
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## 2. Peak-to-Average Ratio(CCDF)

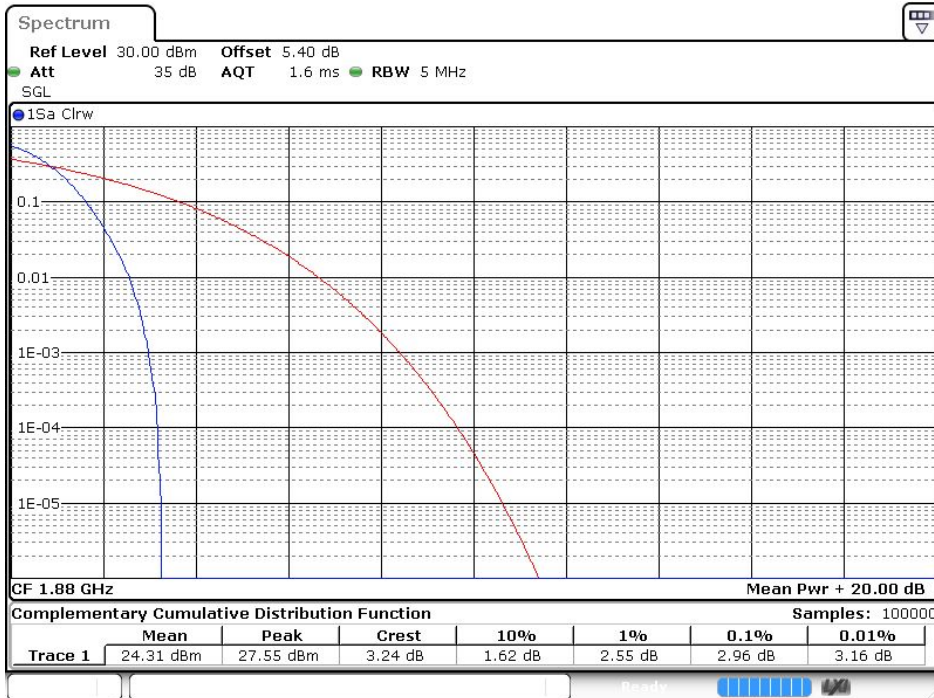
### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.58	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.46	13	PASS
Band V	4132	2.52	13	PASS
Band V	4182	3.16	13	PASS
Band V	4233	2.87	13	PASS

### 2.2. Test Plots







Date: 21 MAY 2020 04:17:47

**Band II\_9538**

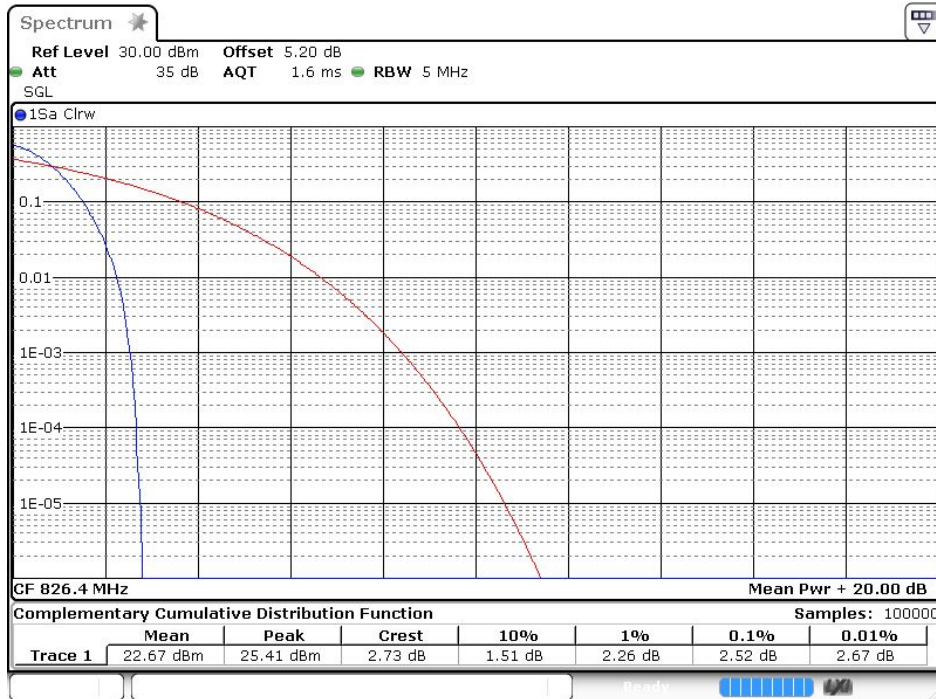


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Band V\_4132



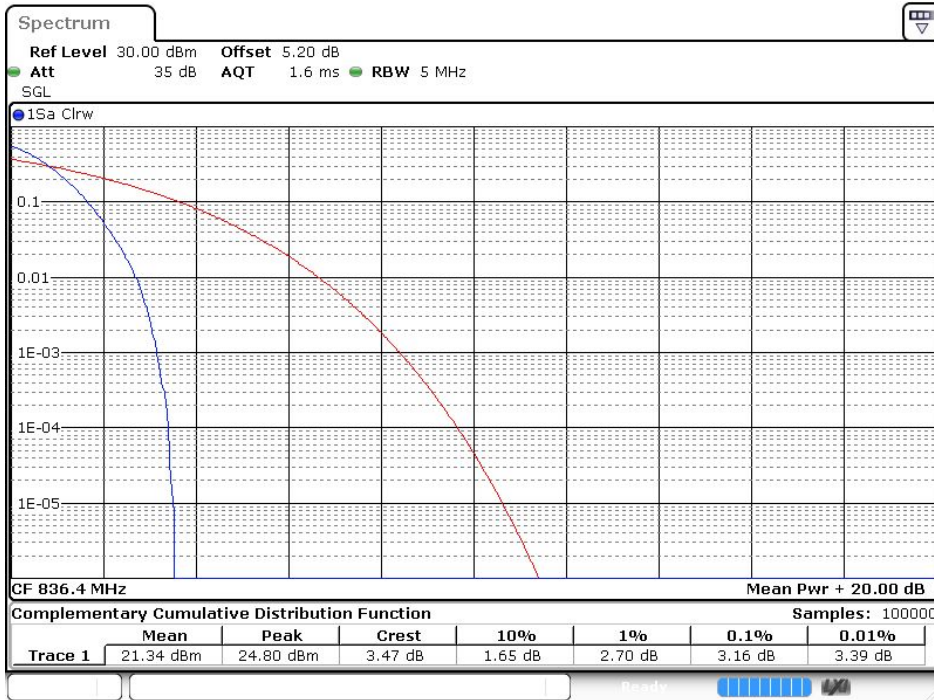
Date: 21 MAY 2020 04:35:40

Band V\_4182



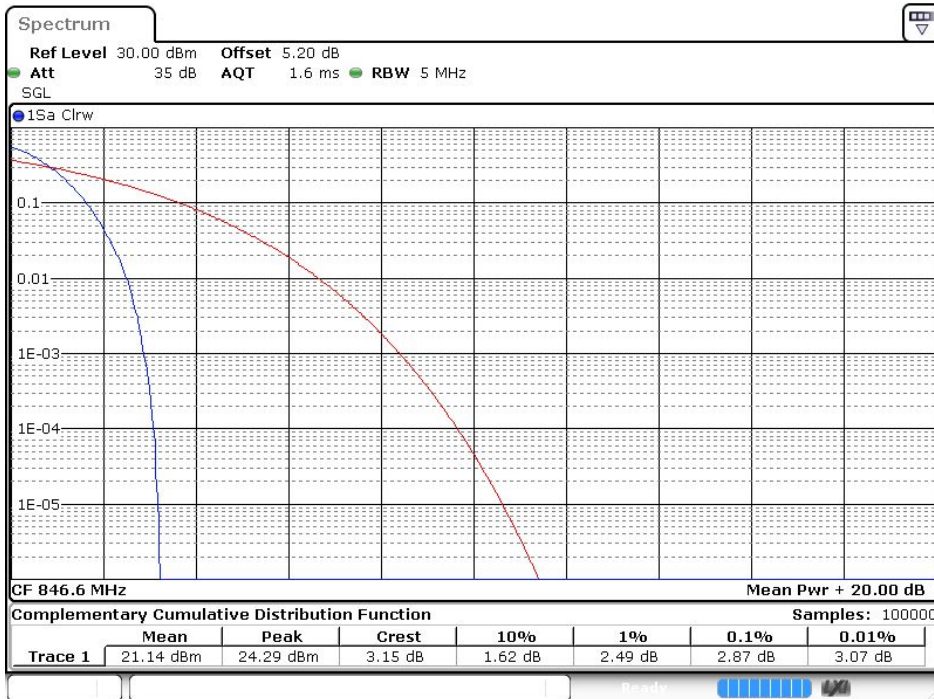
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**Band V\_4233**



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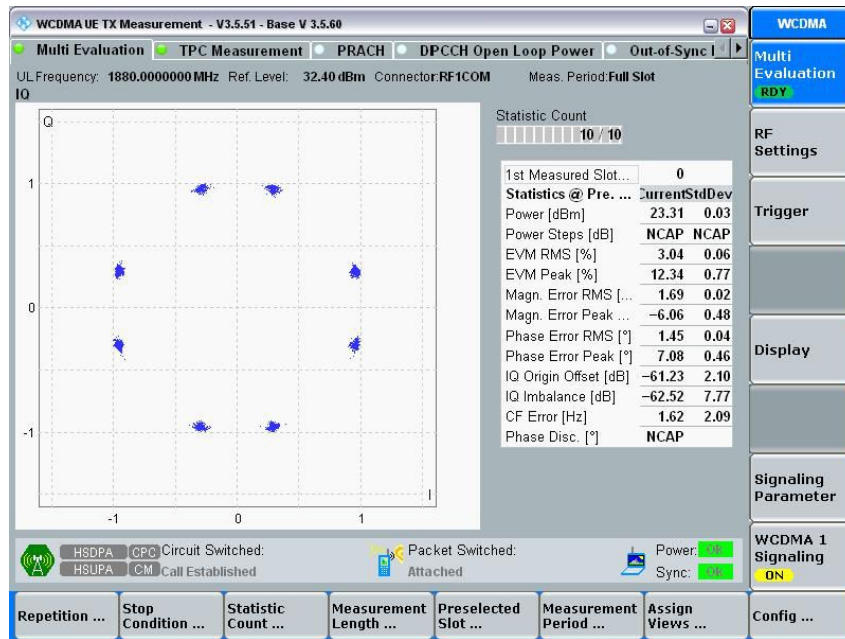


### 3. Modulation Characteristics

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

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

##### 3.1.1.1. Test Channel = MCH



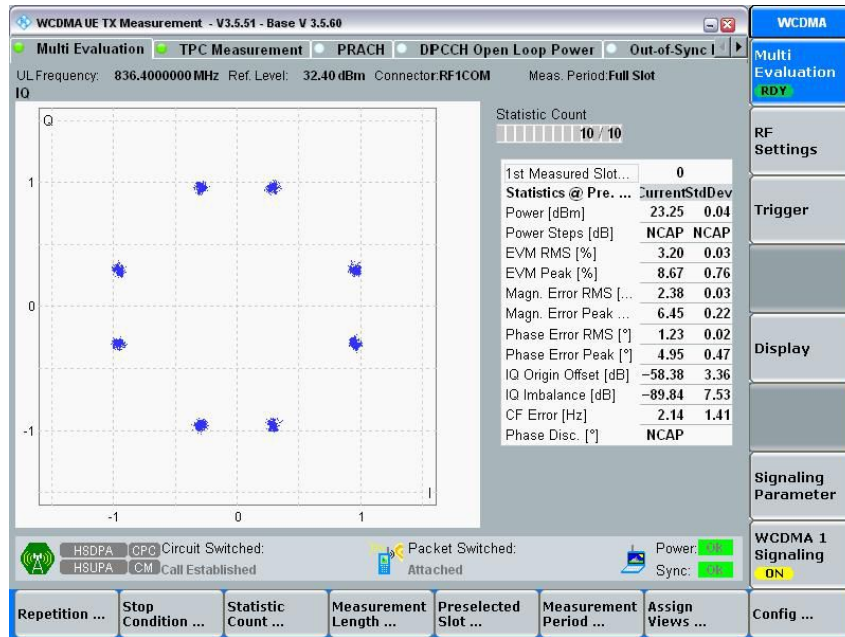
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### 3.2. Test Band = WCDMA Band V

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

##### 3.2.1.1. Test Channel = MCH



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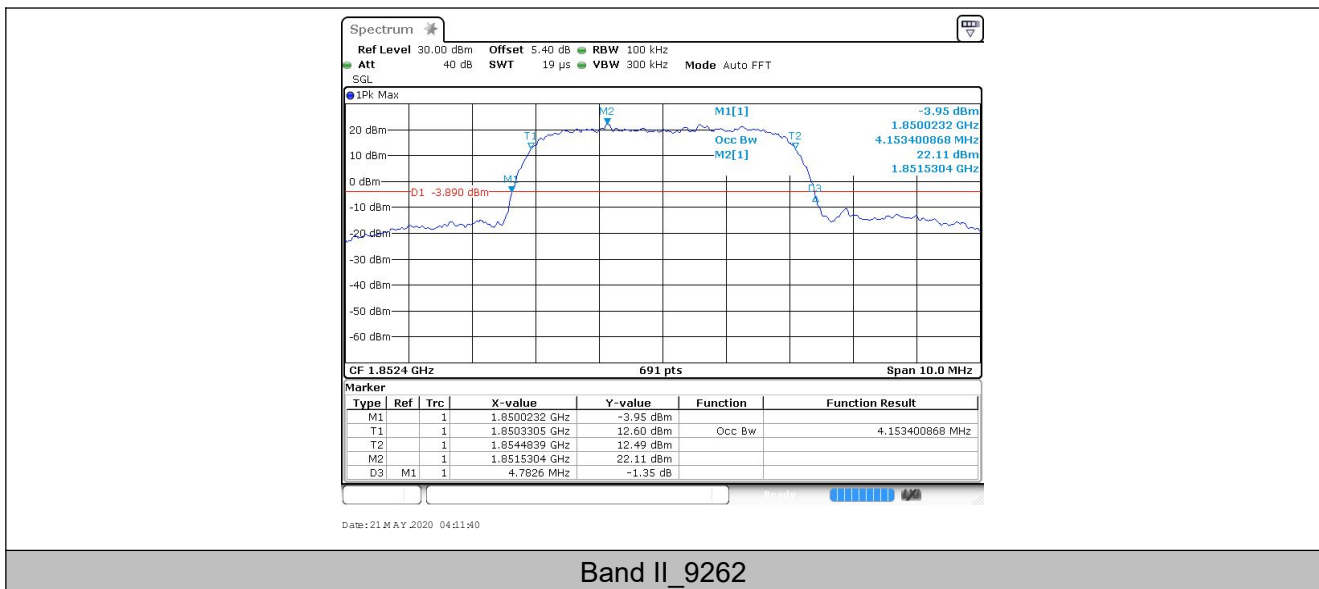
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

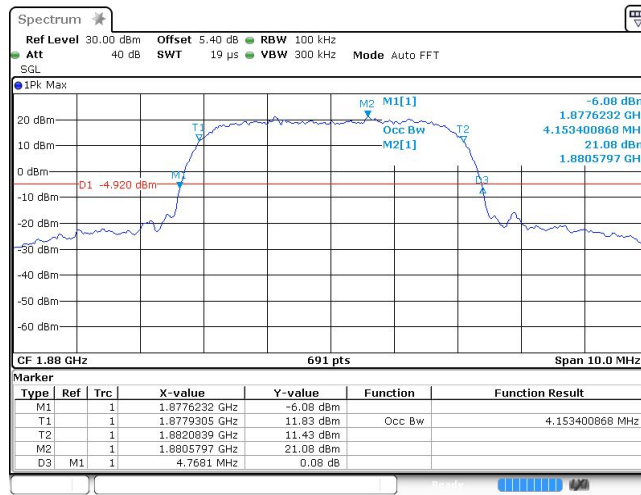
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4783	---	PASS
Band II	9400	4153.4	4768	---	PASS
Band II	9538	4153.4	4797	---	PASS
Band V	4132	4138.9	4783	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4138.9	4739	---	PASS

### 4.2. Test Plots



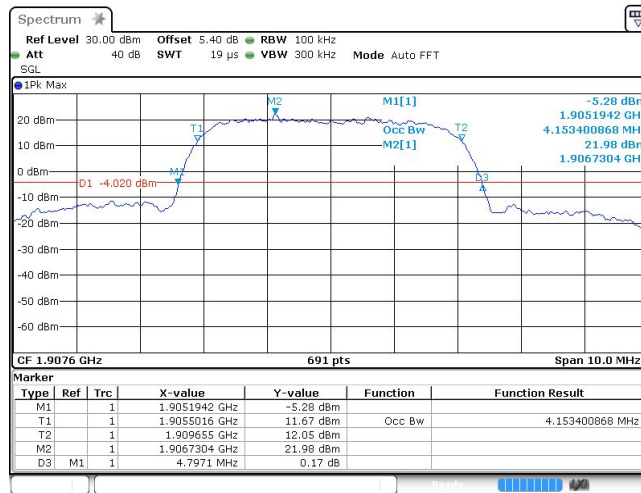
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**Band II\_9400**



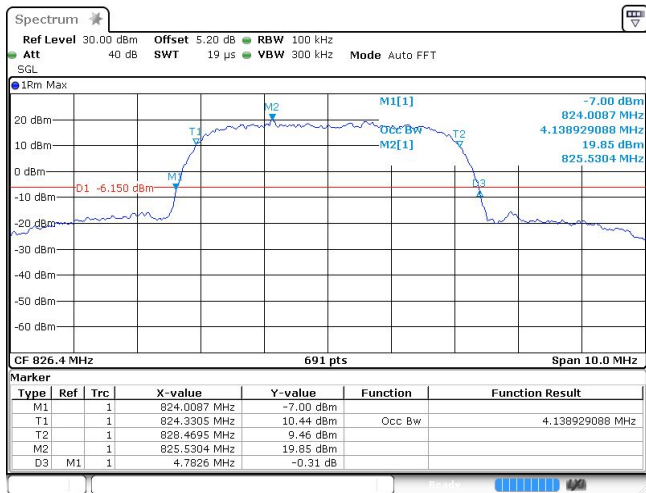
Date: 21 MAY 2020 04:12:30

**Band II\_9538**



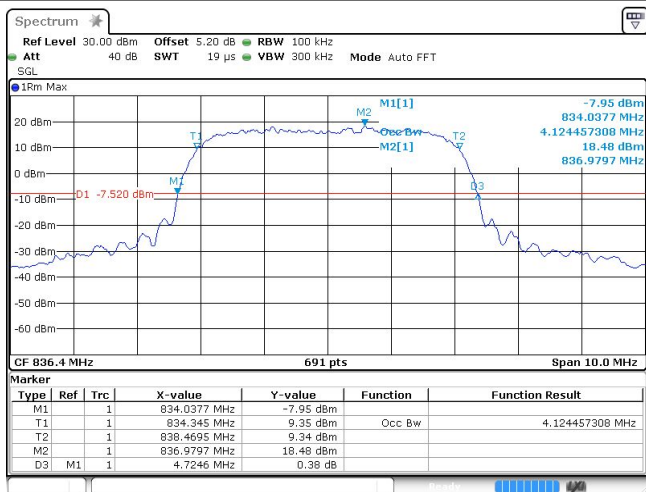
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**Band V\_4132**

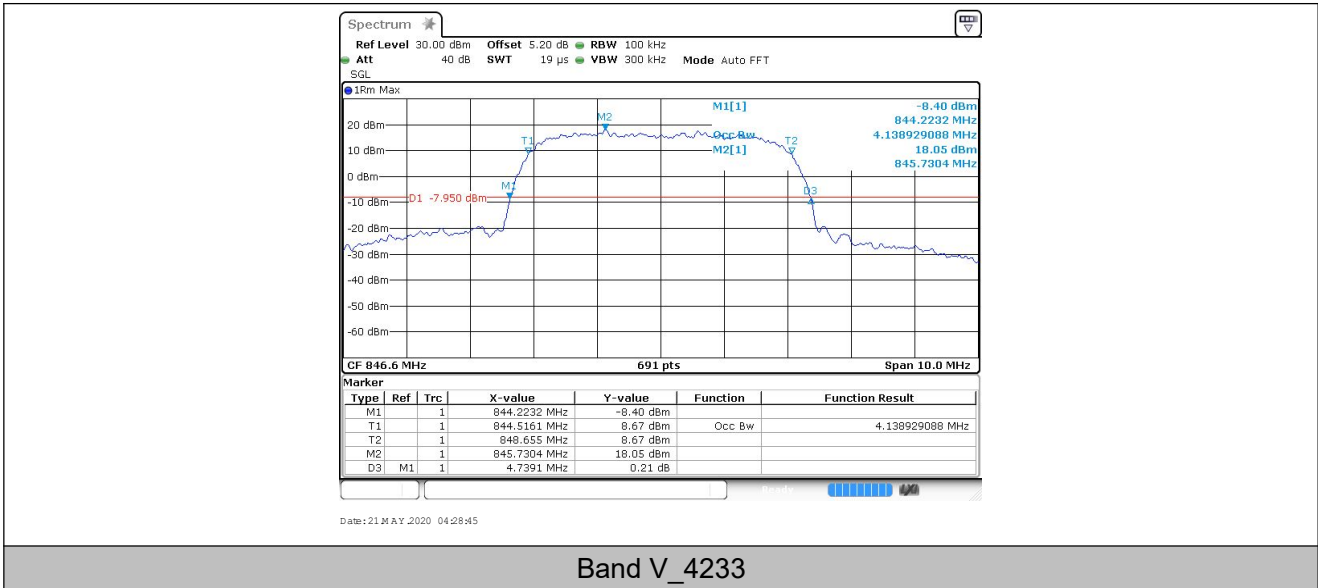


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**Band V\_4182**



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Band V\_4233

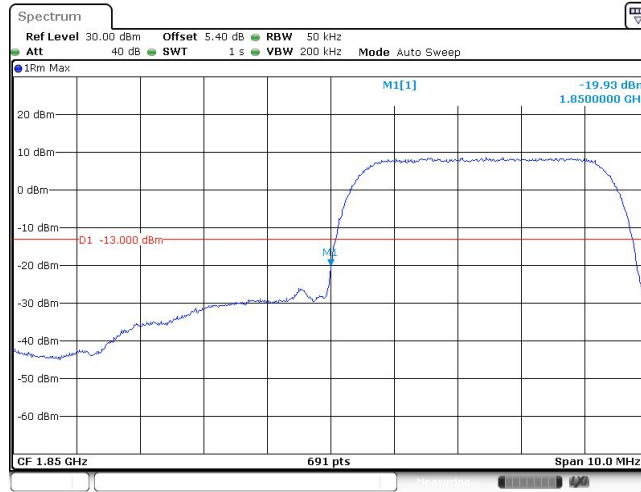


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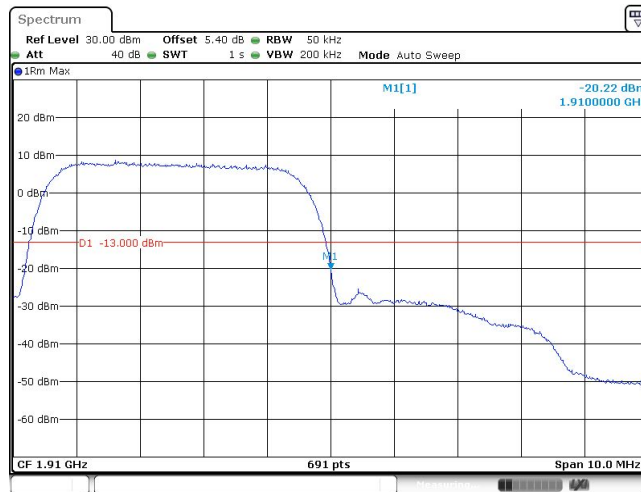
## 5. Band Edge Compliance

### 5.1. Test Plots



Date: 21 MAY 2020 04:23:18

Band II\_9262



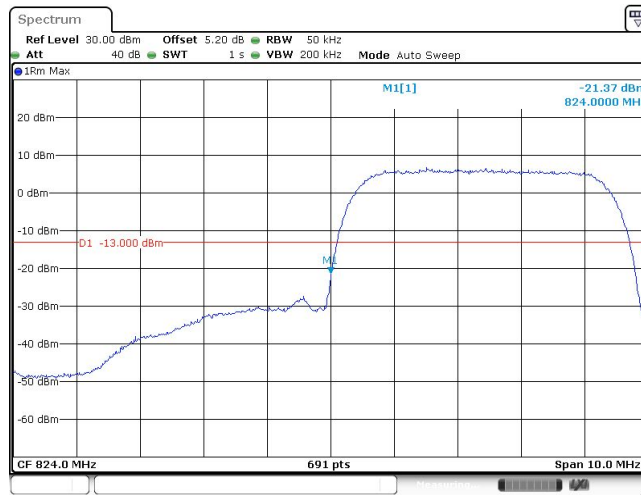
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Band II\_9538



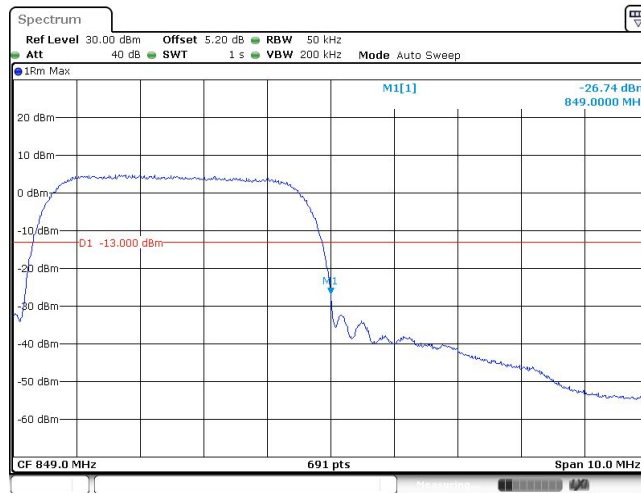
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**Band V\_4132**



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**Band V\_4233**



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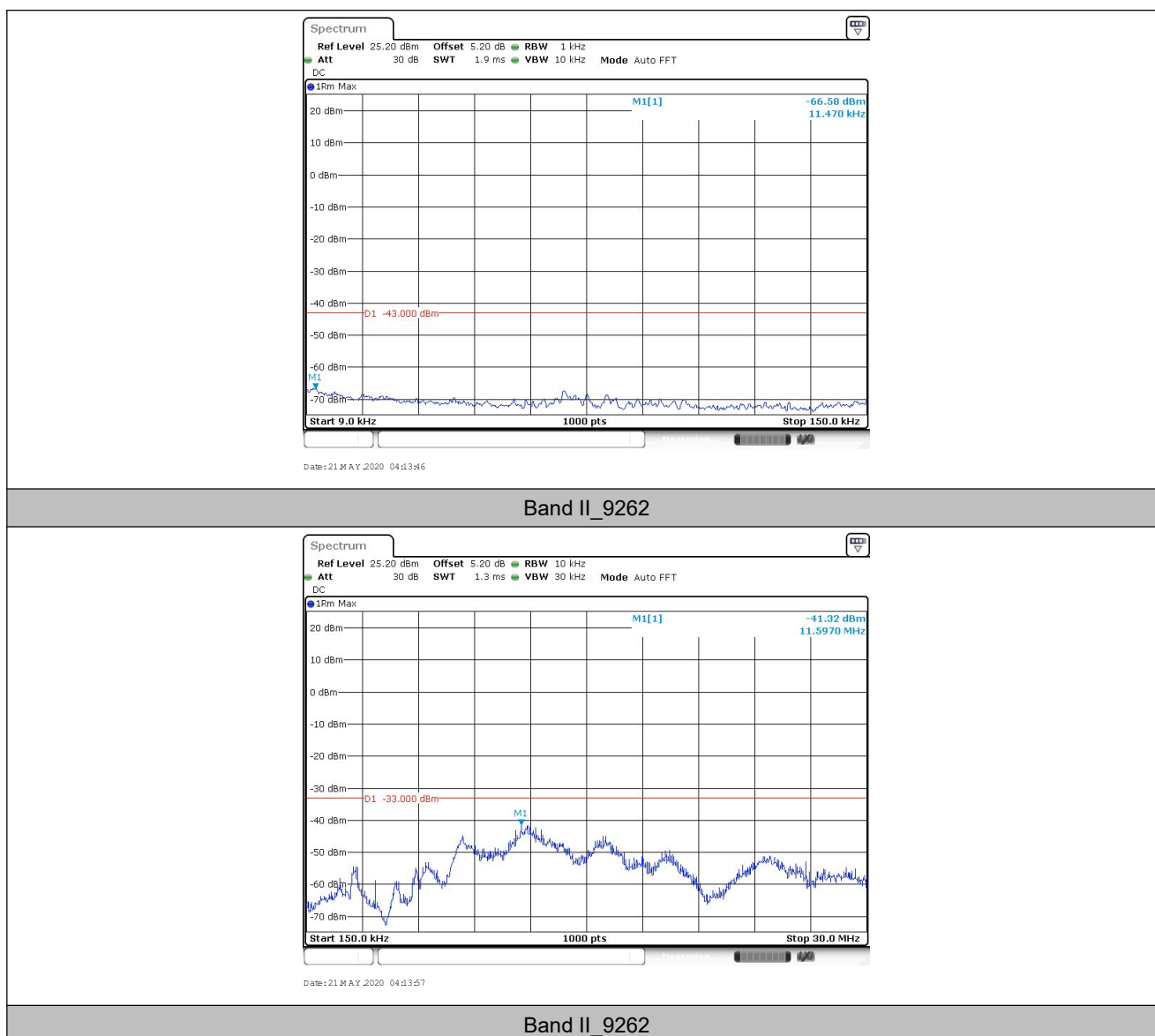


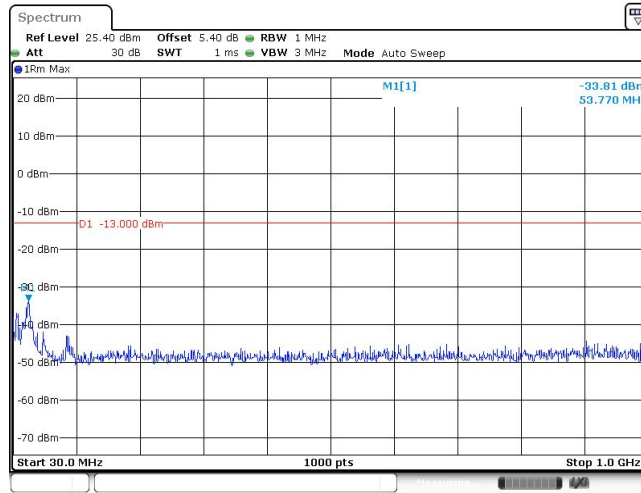
## 6. Spurious Emission at Antenna Terminal

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 =  $k * (Span / RBW)$ " 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.

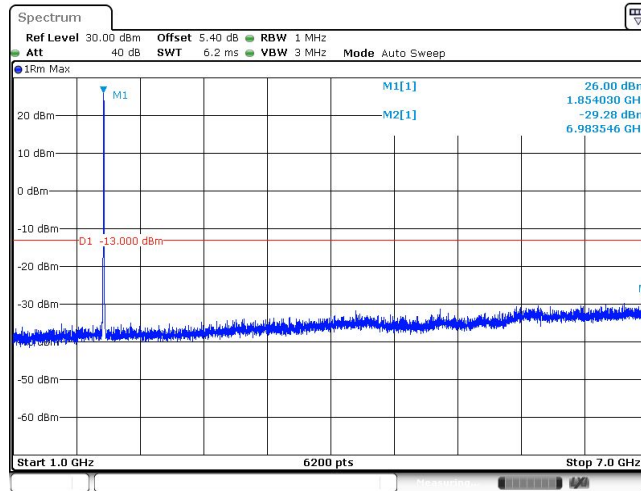
### 6.1. Test Plots





Date: 21 MAY 2020 04:14:08

**Band II\_9262**



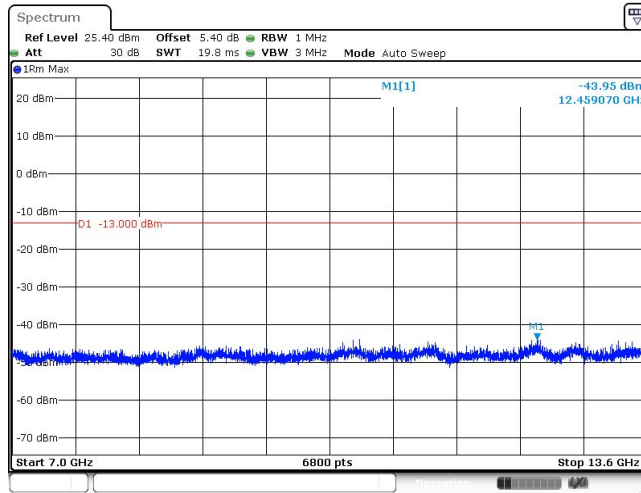
Date: 21 MAY 2020 04:14:20

**Band II\_9262**



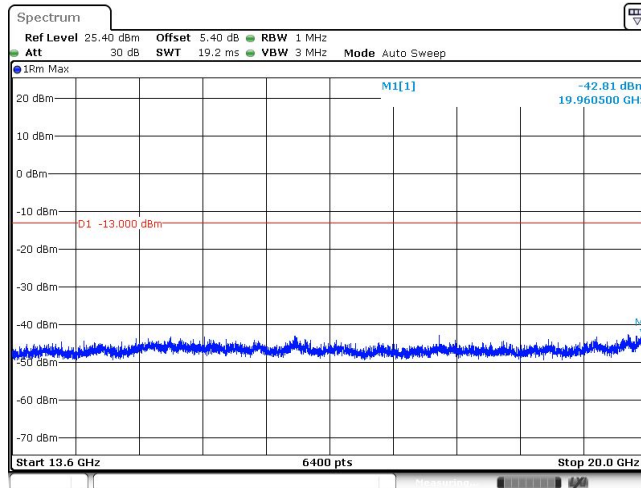
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**Band II\_9262**



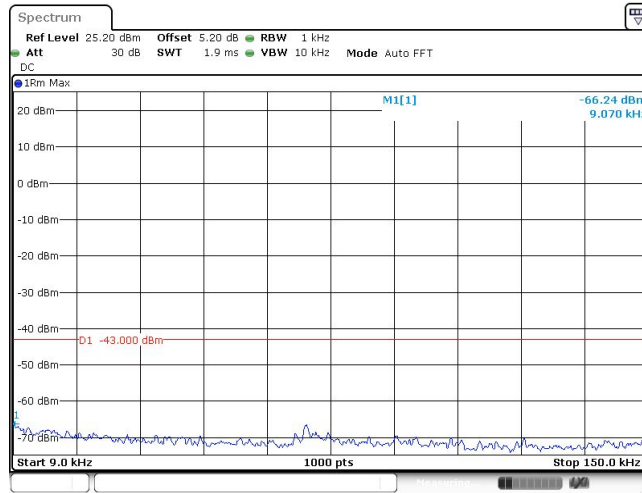
Date: 21 MAY 2020 04:14:42

**Band II\_9262**



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Date: 21 MAY 2020 04:14:55

**Band II\_9400**



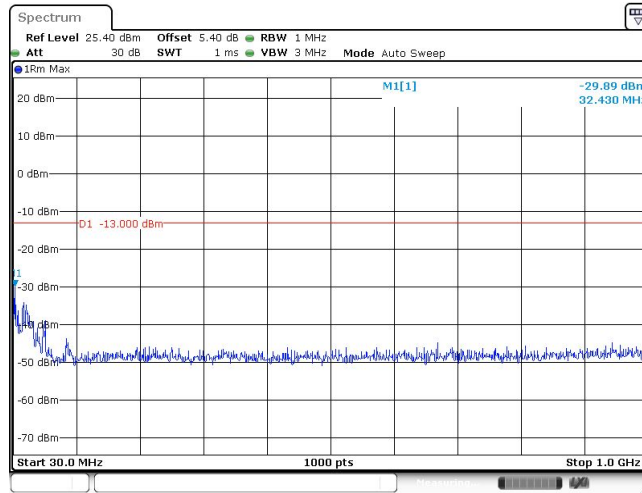
Date: 21 MAY 2020 04:15:06

**Band II\_9400**



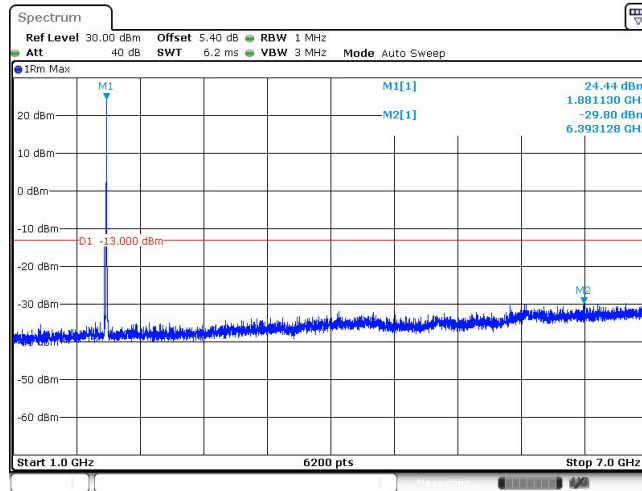
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Date: 21 MAY 2020 04:15:16

**Band II\_9400**

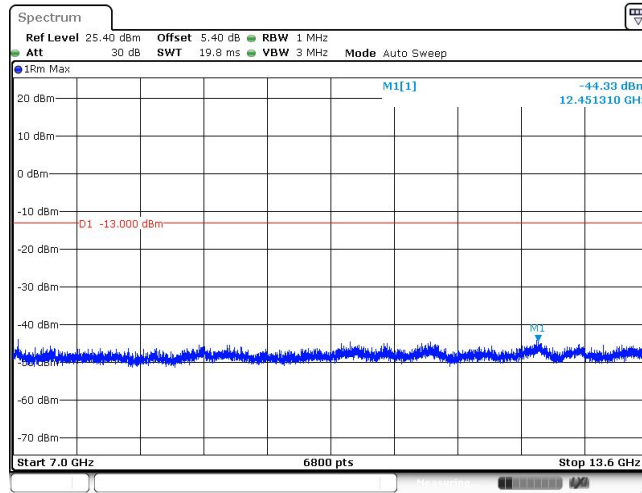


Date: 21 MAY 2020 04:15:28

**Band II\_9400**

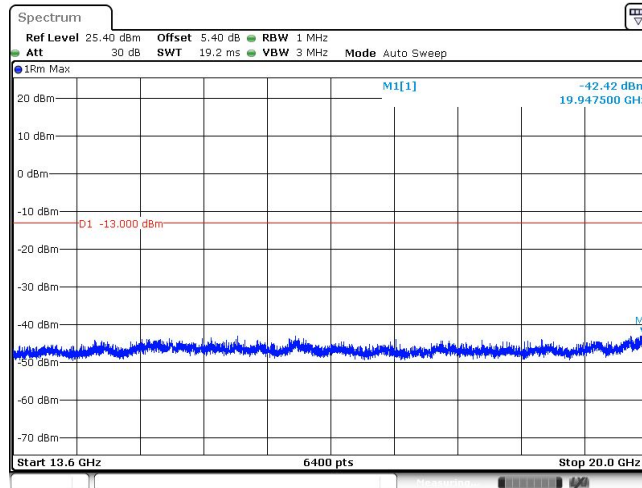


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Date: 21 MAY 2020 04:15:39

**Band II\_9400**

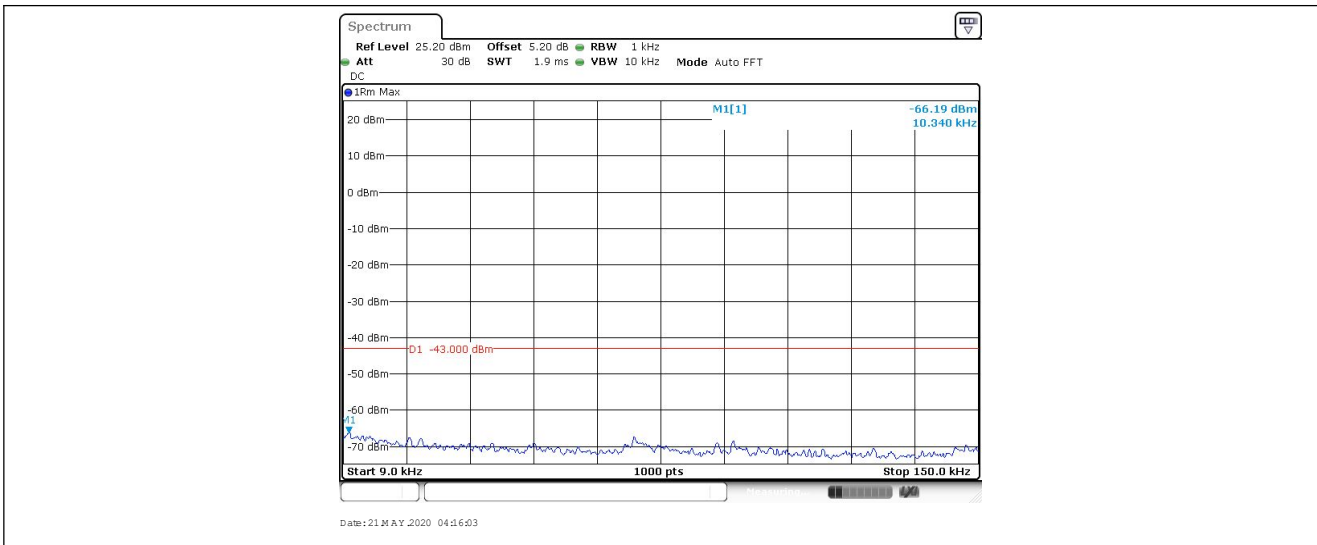


Date: 21 MAY 2020 04:15:50

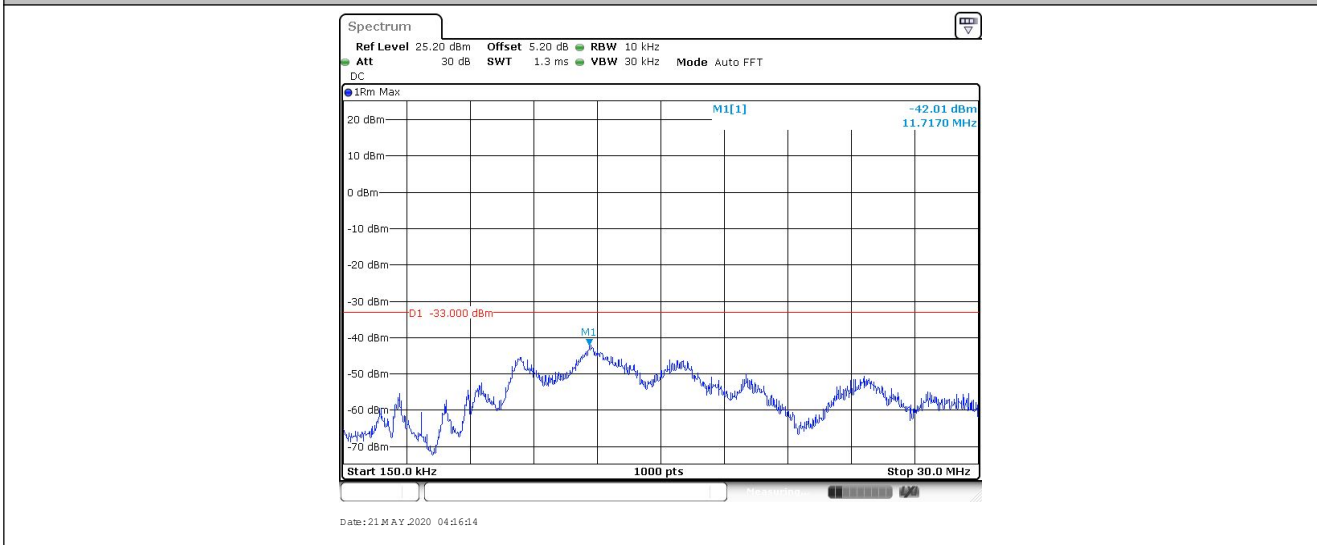
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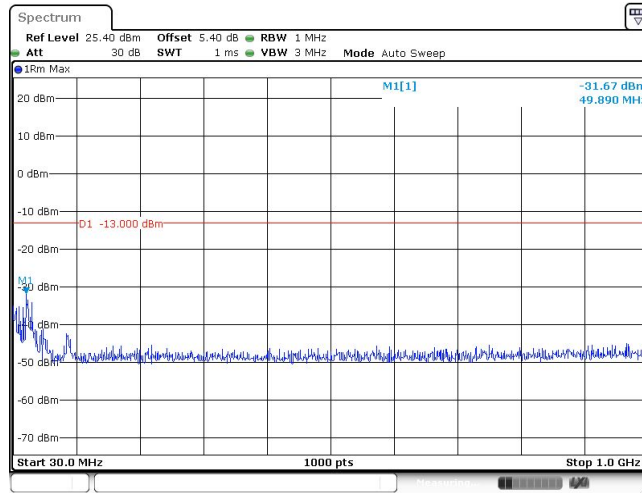
Band II\_9538



Band II\_9538

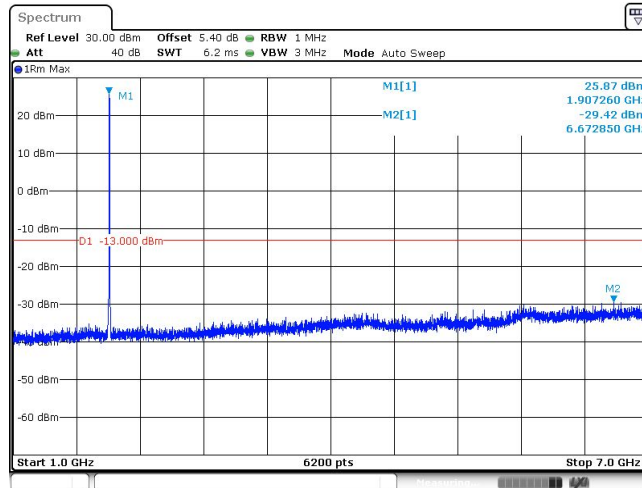


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**Band II\_9538**



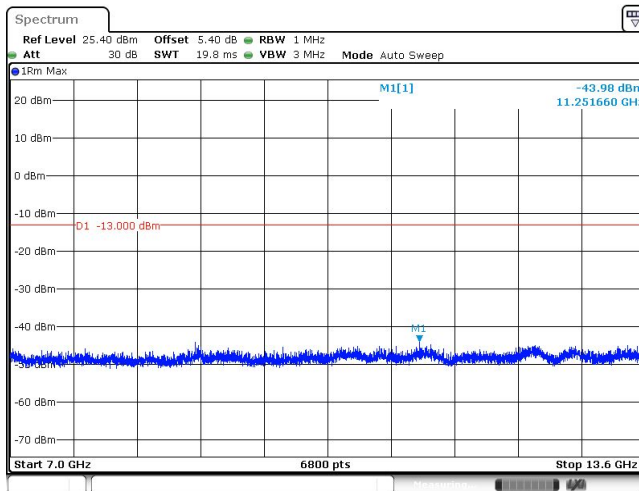
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**Band II\_9538**



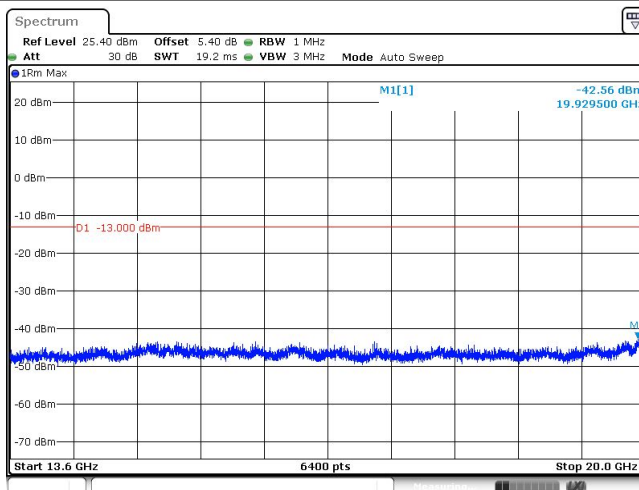
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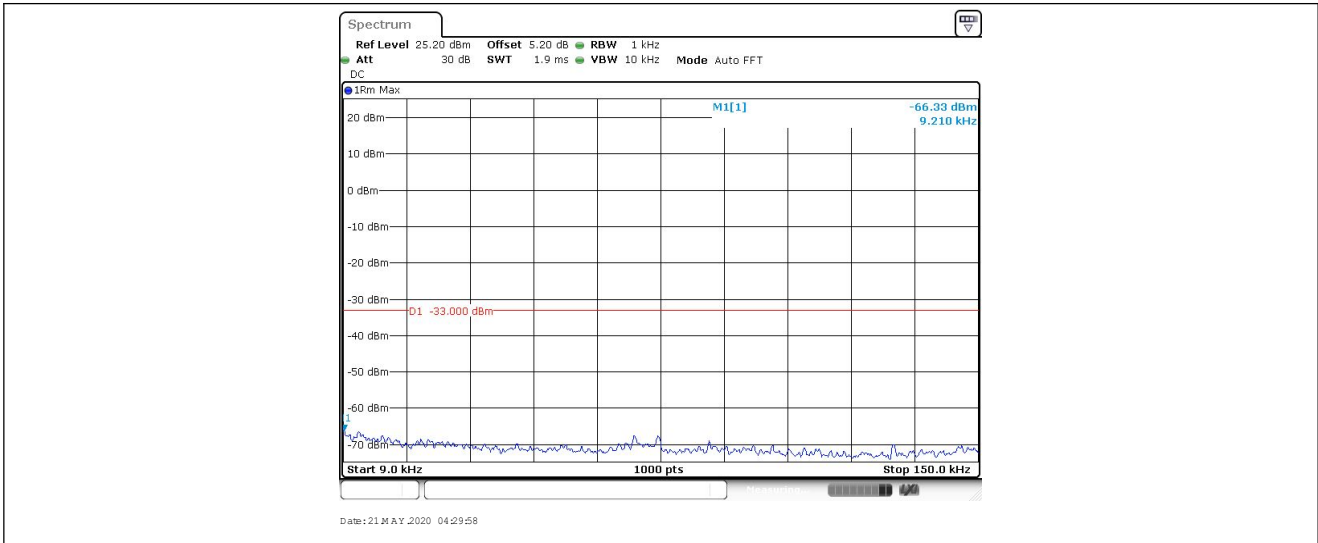


Date: 21 MAY 2020 04:16:59

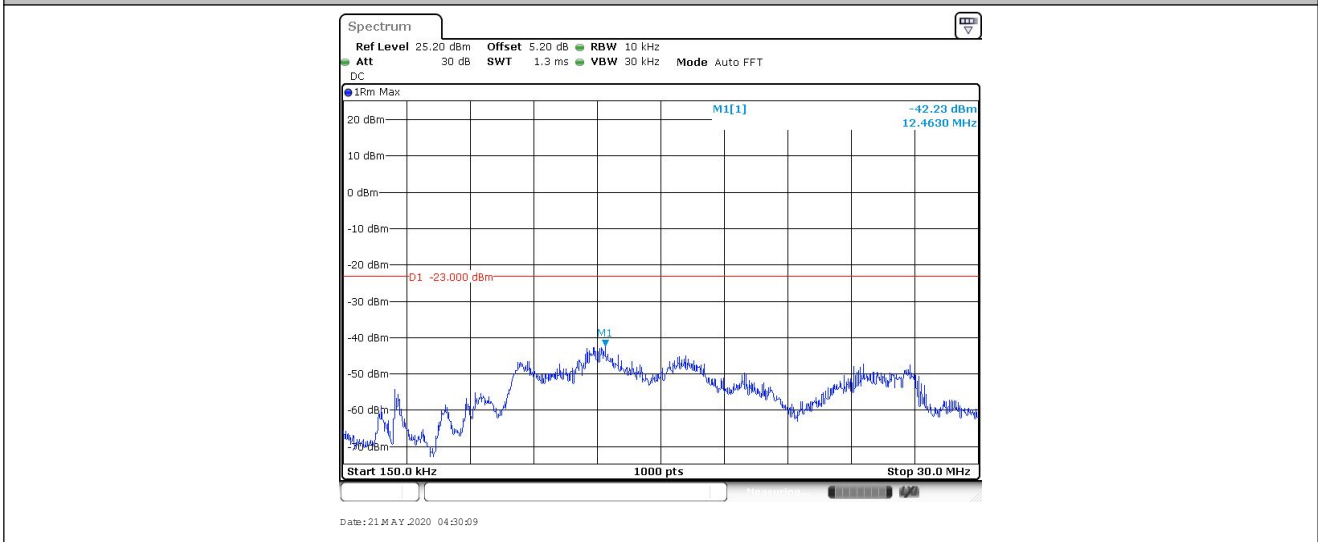
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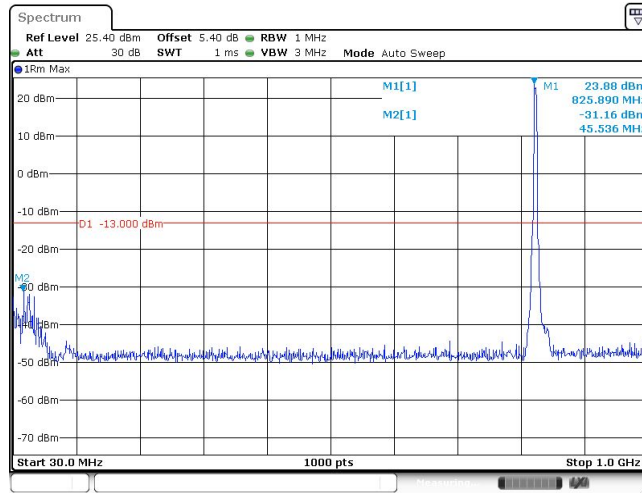
Band V\_4132



Band V\_4132

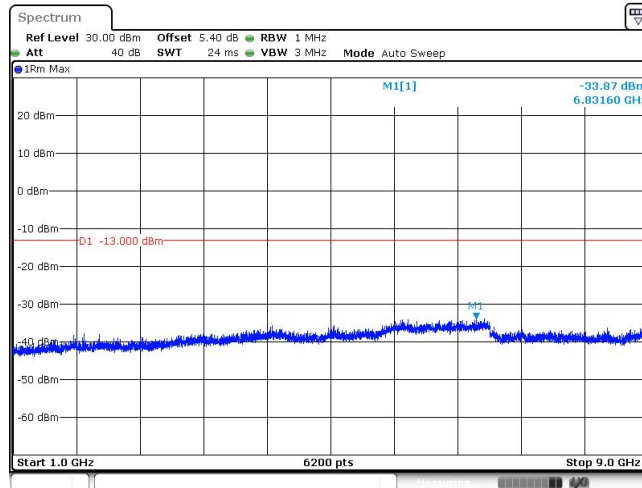


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Band V\_4132

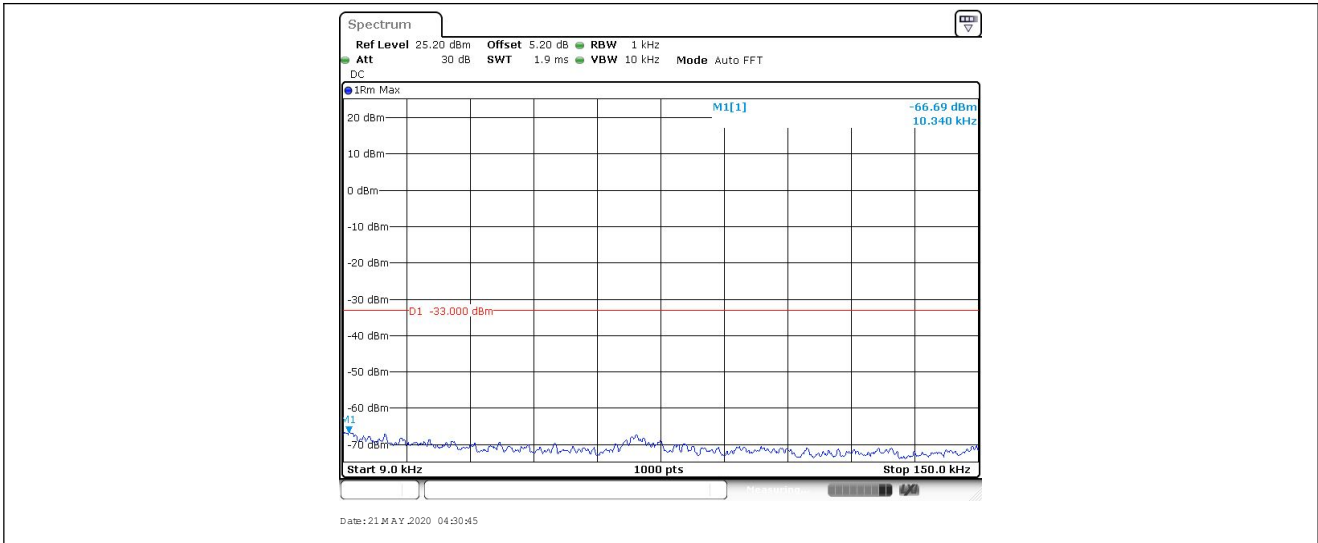


Date: 21 MAY 2020 04:30:32

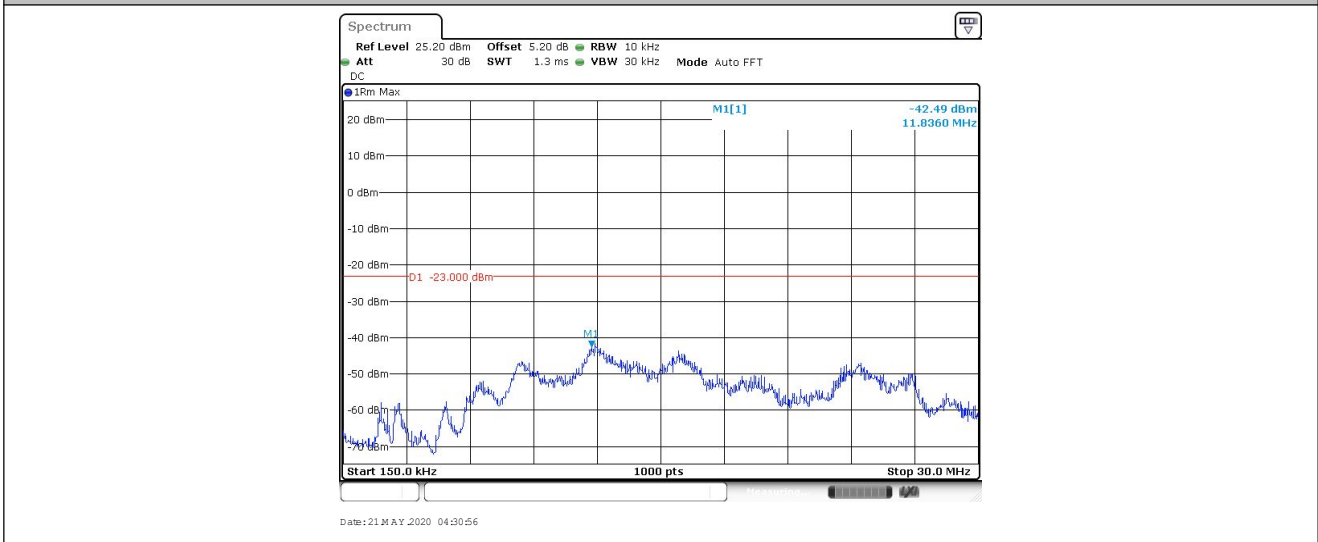
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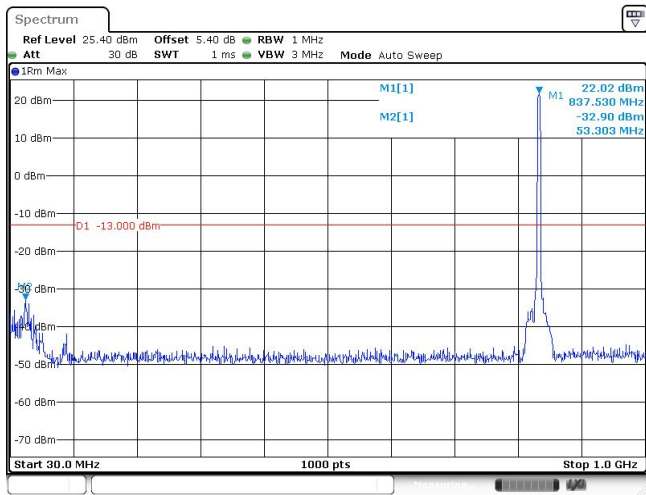
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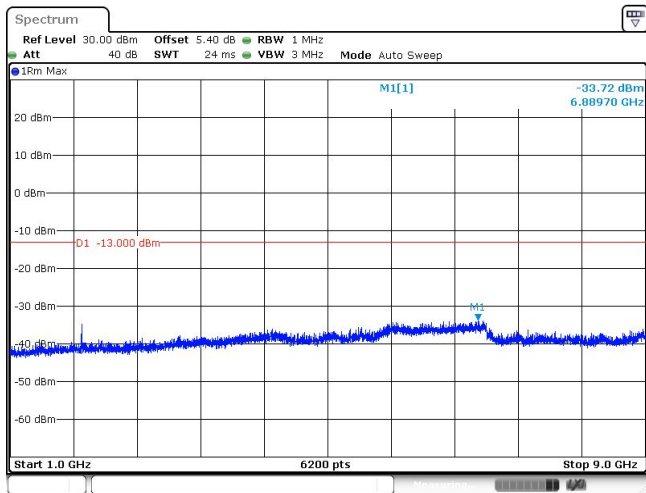
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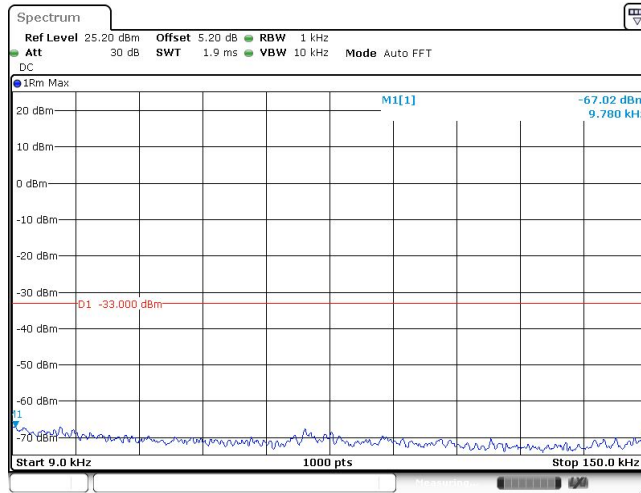
Date: 21 MAY 2020 04:31:19

**Band V\_4182**



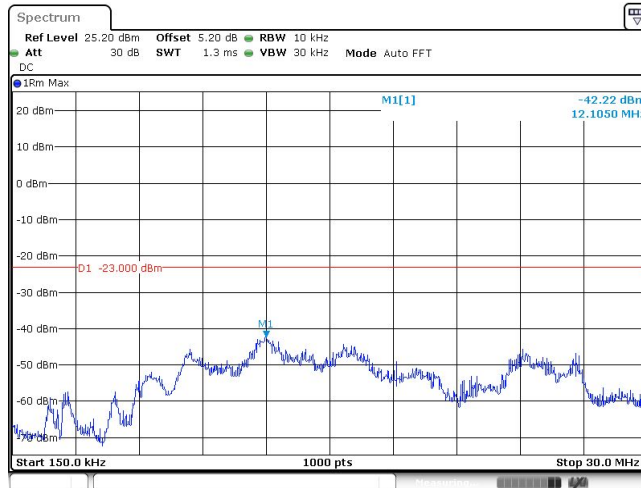
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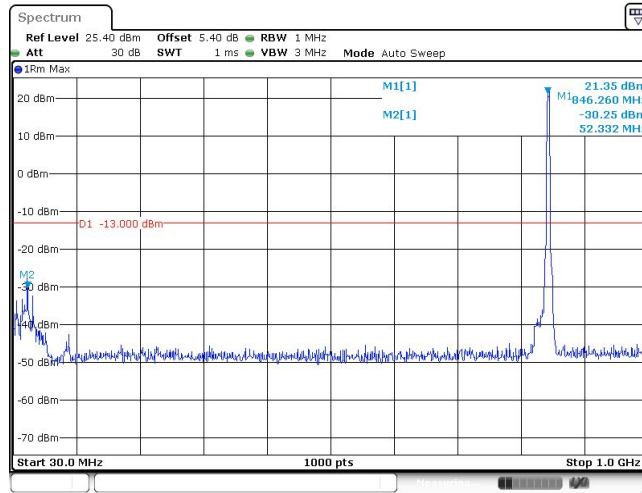


Date: 21 MAY 2020 04:31:43

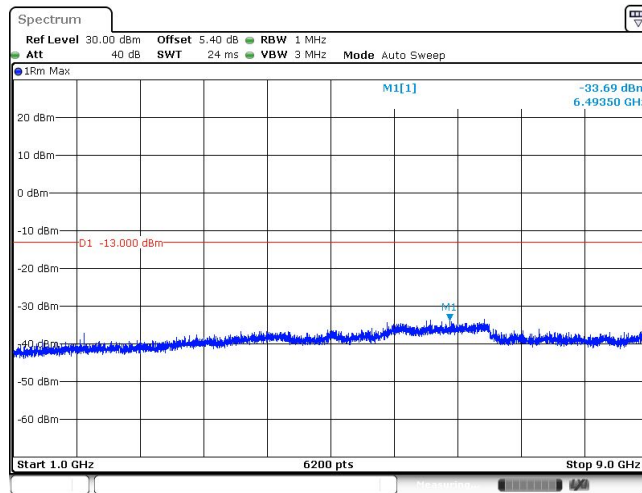
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II

#### 7.1.1. Test Mode = WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.6296	-64.26	-13.00	51.26	Vertical
601.1161	-62.98	-13.00	49.98	Vertical
2698.3397	-36.49	-13.00	23.49	Vertical
7365.6455	-55.92	-13.00	42.92	Vertical
14497.8833	-47.62	-13.00	34.62	Vertical
17997.9999	-39.97	-13.00	26.97	Vertical
40.6705	-63.97	-13.00	50.97	Horizontal
659.9010	-62.94	-13.00	49.94	Horizontal
2698.3397	-35.43	-13.00	22.43	Horizontal
3706.5236	-57.23	-13.00	44.23	Horizontal
16393.9465	-42.53	-13.00	29.53	Horizontal
17997.9999	-45.06	-13.00	32.06	Horizontal



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**7.1.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.2829	-65.97	-13.00	52.97	Vertical
634.5342	-63.61	-13.00	50.61	Vertical
2637.9276	-37.91	-13.00	24.91	Vertical
7476.6492	-56.09	-13.00	43.09	Vertical
14703.3901	-47.24	-13.00	34.24	Vertical
17995.9999	-39.89	-13.00	26.89	Vertical
42.0286	-64.08	-13.00	51.08	Horizontal
631.3331	-63.54	-13.00	50.54	Horizontal
2698.3397	-35.58	-13.00	22.58	Horizontal
3758.5253	-56.68	-13.00	43.68	Horizontal
16369.4456	-43.97	-13.00	30.97	Horizontal
17993.4998	-45.00	-13.00	32.00	Horizontal

**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.7637	-64.95	-13.00	51.95	Vertical
772.6691	-61.74	-13.00	48.74	Vertical
2702.7405	-36.63	-13.00	23.63	Vertical
3817.0272	-58.73	-13.00	45.73	Vertical
14377.8793	-48.37	-13.00	35.37	Vertical
17999.0000	-39.81	-13.00	26.81	Vertical
41.9316	-64.42	-13.00	51.42	Horizontal
617.6069	-63.92	-13.00	50.92	Horizontal
2702.7405	-35.36	-13.00	22.36	Horizontal
3816.5272	-55.10	-13.00	42.10	Horizontal
16394.9465	-43.54	-13.00	30.54	Horizontal
17998.5000	-44.90	-13.00	31.90	Horizontal



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## 7.2. Test Band = WCDMA Band V

### 7.2.1. Test Mode = WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
102.2201	-65.62	-13.00	52.62	Vertical
473.8942	-66.48	-13.00	53.48	Vertical
2863.1726	-51.80	-13.00	38.80	Vertical
7333.6445	-55.84	-13.00	42.84	Vertical
14480.8827	-47.67	-13.00	34.67	Vertical
17993.9998	-39.74	-13.00	26.74	Vertical
44.6477	-63.75	-13.00	50.75	Horizontal
540.8275	-65.13	-13.00	52.13	Horizontal
2696.7393	-50.64	-13.00	37.64	Horizontal
7403.1468	-56.15	-13.00	43.15	Horizontal
16385.4462	-43.03	-13.00	30.03	Horizontal
17995.4999	-44.66	-13.00	31.66	Horizontal



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**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.4769	-64.59	-13.00	51.59	Vertical
599.5640	-63.83	-13.00	50.83	Vertical
2699.5399	-52.03	-13.00	39.03	Vertical
7349.6450	-55.78	-13.00	42.78	Vertical
14485.8829	-47.80	-13.00	34.80	Vertical
17992.4998	-39.37	-13.00	26.37	Vertical
44.7932	-64.70	-13.00	51.70	Horizontal
501.2011	-66.20	-13.00	53.20	Horizontal
1670.9342	-60.04	-13.00	47.04	Horizontal
2702.3405	-50.67	-13.00	37.67	Horizontal
7477.6493	-56.21	-13.00	43.21	Horizontal
16388.9463	-43.58	-13.00	30.58	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.9619	-63.82	-13.00	50.82	Vertical
537.0444	-66.19	-13.00	53.19	Vertical
2697.9396	-51.89	-13.00	38.89	Vertical
7362.1454	-55.79	-13.00	42.79	Vertical
14711.3904	-47.31	-13.00	34.31	Vertical
17999.0000	-39.84	-13.00	26.84	Vertical
40.2825	-63.88	-13.00	50.88	Horizontal
532.7761	-64.89	-13.00	51.89	Horizontal
2699.5399	-50.56	-13.00	37.56	Horizontal
7423.6475	-56.33	-13.00	43.33	Horizontal
16403.4468	-43.49	-13.00	30.49	Horizontal
17999.0000	-44.63	-13.00	31.63	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions



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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	2.34	0.001263	±2.5	PASS
Band II	9262	VN	TN	12.90	0.006966	±2.5	PASS
Band II	9262	VH	TN	-6.87	-0.003706	±2.5	PASS
Band II	9400	VL	TN	9.87	0.005252	±2.5	PASS
Band II	9400	VN	TN	14.34	0.007630	±2.5	PASS
Band II	9400	VH	TN	-12.54	-0.006673	±2.5	PASS
Band II	9538	VL	TN	11.05	0.005795	±2.5	PASS
Band II	9538	VN	TN	2.99	0.001567	±2.5	PASS
Band II	9538	VH	TN	-9.04	-0.004740	±2.5	PASS
Band V	4132	VL	TN	9.65	0.011678	±2.5	PASS
Band V	4132	VN	TN	2.83	0.003426	±2.5	PASS
Band V	4132	VH	TN	-4.09	-0.004955	±2.5	PASS
Band V	4182	VL	TN	-7.80	-0.009329	±2.5	PASS
Band V	4182	VN	TN	-1.89	-0.002264	±2.5	PASS
Band V	4182	VH	TN	0.37	0.000437	±2.5	PASS
Band V	4233	VL	TN	12.79	0.015109	±2.5	PASS
Band V	4233	VN	TN	-6.84	-0.008075	±2.5	PASS
Band V	4233	VH	TN	3.22	0.003808	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	5.21	0.002813	±2.5	PASS
Band II	9262	VN	-20	14.65	0.007906	±2.5	PASS
Band II	9262	VN	-10	-1.94	-0.001046	±2.5	PASS
Band II	9262	VN	0	-0.03	-0.000014	±2.5	PASS
Band II	9262	VN	10	-2.80	-0.001511	±2.5	PASS



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Band II	9262	VN	20	-2.33	-0.001260	±2.5	PASS
Band II	9262	VN	30	11.63	0.006280	±2.5	PASS
Band II	9262	VN	40	13.10	0.007073	±2.5	PASS
Band II	9262	VN	50	1.47	0.000794	±2.5	PASS
Band II	9400	VN	-30	3.23	0.001721	±2.5	PASS
Band II	9400	VN	-20	-7.34	-0.003902	±2.5	PASS
Band II	9400	VN	-10	-13.54	-0.007203	±2.5	PASS
Band II	9400	VN	0	11.00	0.005850	±2.5	PASS
Band II	9400	VN	10	-8.84	-0.004704	±2.5	PASS
Band II	9400	VN	20	-11.02	-0.005863	±2.5	PASS
Band II	9400	VN	30	8.24	0.004381	±2.5	PASS
Band II	9400	VN	40	-6.44	-0.003424	±2.5	PASS
Band II	9400	VN	50	-4.56	-0.002424	±2.5	PASS
Band II	9538	VN	-30	5.51	0.002887	±2.5	PASS
Band II	9538	VN	-20	-2.42	-0.001269	±2.5	PASS
Band II	9538	VN	-10	-14.59	-0.007647	±2.5	PASS
Band II	9538	VN	0	-8.98	-0.004705	±2.5	PASS
Band II	9538	VN	10	-1.26	-0.000661	±2.5	PASS
Band II	9538	VN	20	14.89	0.007808	±2.5	PASS
Band II	9538	VN	30	-0.23	-0.000122	±2.5	PASS
Band II	9538	VN	40	-13.80	-0.007236	±2.5	PASS
Band II	9538	VN	50	13.22	0.006931	±2.5	PASS
Band V	4132	VN	-30	-12.48	-0.015102	±2.5	PASS
Band V	4132	VN	-20	11.72	0.014188	±2.5	PASS
Band V	4132	VN	-10	10.09	0.012214	±2.5	PASS
Band V	4132	VN	0	-14.52	-0.017571	±2.5	PASS
Band V	4132	VN	10	-9.00	-0.010886	±2.5	PASS
Band V	4132	VN	20	-4.44	-0.005368	±2.5	PASS
Band V	4132	VN	30	-5.05	-0.006115	±2.5	PASS
Band V	4132	VN	40	-13.22	-0.016002	±2.5	PASS
Band V	4132	VN	50	-7.46	-0.009023	±2.5	PASS
Band V	4182	VN	-30	-2.28	-0.002731	±2.5	PASS
Band V	4182	VN	-20	-6.13	-0.007332	±2.5	PASS
Band V	4182	VN	-10	-1.50	-0.001791	±2.5	PASS
Band V	4182	VN	0	-10.80	-0.012908	±2.5	PASS
Band V	4182	VN	10	4.15	0.004957	±2.5	PASS
Band V	4182	VN	20	1.95	0.002334	±2.5	PASS



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Band V	4182	VN	30	13.02	0.015562	±2.5	PASS
Band V	4182	VN	40	10.94	0.013082	±2.5	PASS
Band V	4182	VN	50	-0.88	-0.001057	±2.5	PASS
Band V	4233	VN	-30	1.76	0.002074	±2.5	PASS
Band V	4233	VN	-20	3.61	0.004269	±2.5	PASS
Band V	4233	VN	-10	-13.88	-0.016395	±2.5	PASS
Band V	4233	VN	0	3.34	0.003943	±2.5	PASS
Band V	4233	VN	10	-7.33	-0.008657	±2.5	PASS
Band V	4233	VN	20	13.77	0.016265	±2.5	PASS
Band V	4233	VN	30	-11.03	-0.013032	±2.5	PASS
Band V	4233	VN	40	-0.88	-0.001039	±2.5	PASS
Band V	4233	VN	50	14.91	0.017616	±2.5	PASS

The End



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