

## Appendix B.5 for KSEM2108001480CR-WCDMA-Band 5

### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Band5\_ERP

##### 1.1.1 Test Result

Band: 5											
ENV	Mode		Frequency (MHz)	Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	826.4	23.42	-0.60	20.67	<=38.45	Pass			
			836.6	23.89	-0.60	21.14	<=38.45	Pass			
			846.6	24.24	-0.60	21.49	<=38.45	Pass			
	HSDPA		Subtest 1	826.4	21.48	-0.60	18.73	<=38.45	Pass		
			Subtest 2	826.4	21.42	-0.60	18.67	<=38.45	Pass		
			Subtest 3	826.4	21.48	-0.60	18.73	<=38.45	Pass		
			Subtest 4	826.4	21.45	-0.60	18.70	<=38.45	Pass		
			Subtest 1	836.6	21.95	-0.60	19.20	<=38.45	Pass		
			Subtest 2	836.6	21.90	-0.60	19.15	<=38.45	Pass		
			Subtest 3	836.6	21.91	-0.60	19.16	<=38.45	Pass		
			Subtest 4	836.6	21.92	-0.60	19.17	<=38.45	Pass		
			Subtest 1	846.6	22.05	-0.60	19.30	<=38.45	Pass		
			Subtest 2	846.6	22.07	-0.60	19.32	<=38.45	Pass		
			Subtest 3	846.6	22.11	-0.60	19.36	<=38.45	Pass		
			Subtest 4	846.6	22.08	-0.60	19.33	<=38.45	Pass		
			HSUPA		Subtest 1	826.4	19.08	-0.60	16.33	<=38.45	Pass
					Subtest 2	826.4	19.12	-0.60	16.37	<=38.45	Pass
					Subtest 3	826.4	19.58	-0.60	16.83	<=38.45	Pass
	Subtest 4	826.4			19.58	-0.60	16.83	<=38.45	Pass		
	Subtest 5	826.4			19.12	-0.60	16.37	<=38.45	Pass		
	Subtest 1	836.6			19.94	-0.60	17.19	<=38.45	Pass		
	Subtest 2	836.6			19.65	-0.60	16.90	<=38.45	Pass		
	Subtest 3	836.6			19.66	-0.60	16.91	<=38.45	Pass		
	Subtest 4	836.6			20.12	-0.60	17.37	<=38.45	Pass		
	Subtest 5	836.6			19.93	-0.60	17.18	<=38.45	Pass		
	Subtest 1	846.6			20.29	-0.60	17.54	<=38.45	Pass		
	Subtest 2	846.6			19.84	-0.60	17.09	<=38.45	Pass		
	Subtest 3	846.6			20.14	-0.60	17.39	<=38.45	Pass		
	Subtest 4	846.6			20.08	-0.60	17.33	<=38.45	Pass		
	Subtest 5	846.6			20.12	-0.60	17.37	<=38.45	Pass		

Note1: ERP=Power+Antenna Gain-2.15

Remark1:

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

$$ERP [dBm] = Power [dBm] + Gain [dBd]$$

$$EIRP [dBm] = Power [dBm] + Gain [dBi]$$



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## 2. Frequency Stability

### 2.1 Band5

#### 2.1.1 Test Result

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-1.54	-0.00	-2.5 to 2.5	Pass
			3.85	-2.49	-0.00	-2.5 to 2.5	Pass
			4.43	-2.12	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-1.57	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-1.62	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-1.75	-0.00	-2.5 to 2.5	Pass
		0	3.85	-2.02	-0.00	-2.5 to 2.5	Pass
		10	3.85	-1.82	-0.00	-2.5 to 2.5	Pass
		30	3.85	-1.73	-0.00	-2.5 to 2.5	Pass
		40	3.85	-1.79	-0.00	-2.5 to 2.5	Pass
	50	3.85	-2.23	-0.00	-2.5 to 2.5	Pass	
	836.6	20	3.27	-1.19	-0.00	-2.5 to 2.5	Pass
			3.85	-1.48	-0.00	-2.5 to 2.5	Pass
			4.43	-1.58	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-1.63	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-1.28	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-1.27	-0.00	-2.5 to 2.5	Pass
		0	3.85	-1.34	-0.00	-2.5 to 2.5	Pass
		10	3.85	-1.28	-0.00	-2.5 to 2.5	Pass
		30	3.85	-1.61	-0.00	-2.5 to 2.5	Pass
		40	3.85	-1.58	-0.00	-2.5 to 2.5	Pass
	50	3.85	-1.45	-0.00	-2.5 to 2.5	Pass	
	846.6	20	3.27	-0.35	-0.00	-2.5 to 2.5	Pass
			3.85	0.11	0.00	-2.5 to 2.5	Pass
			4.43	-0.19	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-0.37	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-0.59	-0.00	-2.5 to 2.5	Pass
		-10	3.85	-0.65	-0.00	-2.5 to 2.5	Pass
		0	3.85	-0.46	-0.00	-2.5 to 2.5	Pass
		10	3.85	-0.67	-0.00	-2.5 to 2.5	Pass
30		3.85	-0.13	-0.00	-2.5 to 2.5	Pass	
40		3.85	-0.29	-0.00	-2.5 to 2.5	Pass	
50	3.85	-0.32	-0.00	-2.5 to 2.5	Pass		
HSDPA	826.4	20	3.27	-2.31	-0.00	-2.5 to 2.5	Pass
			3.85	-2.17	-0.00	-2.5 to 2.5	Pass
			4.43	-2.18	-0.00	-2.5 to 2.5	Pass
		-30	3.85	-2.50	-0.00	-2.5 to 2.5	Pass
		-20	3.85	-2.75	-0.00	-2.5 to 2.5	Pass



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		-10	3.85	-2.33	-0.00	-2.5 to 2.5	Pass	
		0	3.85	-2.43	-0.00	-2.5 to 2.5	Pass	
		10	3.85	-2.36	-0.00	-2.5 to 2.5	Pass	
		30	3.85	-2.35	-0.00	-2.5 to 2.5	Pass	
		40	3.85	-2.29	-0.00	-2.5 to 2.5	Pass	
	836.6	20	3.27	-2.51	-0.00	-2.5 to 2.5	Pass	
			3.85	-2.61	-0.00	-2.5 to 2.5	Pass	
			4.43	-2.62	-0.00	-2.5 to 2.5	Pass	
		-30	3.85	-2.40	-0.00	-2.5 to 2.5	Pass	
		-20	3.85	-2.57	-0.00	-2.5 to 2.5	Pass	
		-10	3.85	-2.24	-0.00	-2.5 to 2.5	Pass	
		0	3.85	-2.69	-0.00	-2.5 to 2.5	Pass	
		10	3.85	-2.66	-0.00	-2.5 to 2.5	Pass	
		30	3.85	-2.52	-0.00	-2.5 to 2.5	Pass	
		40	3.85	-2.57	-0.00	-2.5 to 2.5	Pass	
		50	3.85	-2.62	-0.00	-2.5 to 2.5	Pass	
		846.6	20	3.27	-3.55	-0.00	-2.5 to 2.5	Pass
				3.85	-3.54	-0.00	-2.5 to 2.5	Pass
				4.43	-3.58	-0.00	-2.5 to 2.5	Pass
			-30	3.85	-4.29	-0.01	-2.5 to 2.5	Pass
	-20		3.85	-3.88	-0.00	-2.5 to 2.5	Pass	
	-10		3.85	-4.03	-0.00	-2.5 to 2.5	Pass	
	0		3.85	-3.70	-0.00	-2.5 to 2.5	Pass	
	10		3.85	-4.21	-0.01	-2.5 to 2.5	Pass	
	30		3.85	-4.14	-0.00	-2.5 to 2.5	Pass	
	40		3.85	-3.70	-0.00	-2.5 to 2.5	Pass	
	50	3.85	-4.08	-0.00	-2.5 to 2.5	Pass		
	HSUPA	826.4	20	3.27	0.92	0.00	-2.5 to 2.5	Pass
				3.85	0.88	0.00	-2.5 to 2.5	Pass
				4.43	1.02	0.00	-2.5 to 2.5	Pass
			-30	3.85	0.81	0.00	-2.5 to 2.5	Pass
			-20	3.85	1.33	0.00	-2.5 to 2.5	Pass
			-10	3.85	1.54	0.00	-2.5 to 2.5	Pass
			0	3.85	1.04	0.00	-2.5 to 2.5	Pass
			10	3.85	1.03	0.00	-2.5 to 2.5	Pass
			30	3.85	1.92	0.00	-2.5 to 2.5	Pass
			40	3.85	1.00	0.00	-2.5 to 2.5	Pass
		50	3.85	0.85	0.00	-2.5 to 2.5	Pass	
		836.6	20	3.27	0.80	0.00	-2.5 to 2.5	Pass
				3.85	0.94	0.00	-2.5 to 2.5	Pass
4.43				1.57	0.00	-2.5 to 2.5	Pass	
-30			3.85	0.99	0.00	-2.5 to 2.5	Pass	
-20			3.85	1.07	0.00	-2.5 to 2.5	Pass	
-10			3.85	0.98	0.00	-2.5 to 2.5	Pass	
0			3.85	1.49	0.00	-2.5 to 2.5	Pass	
10			3.85	0.68	0.00	-2.5 to 2.5	Pass	
30			3.85	1.13	0.00	-2.5 to 2.5	Pass	



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		40	3.85	1.44	0.00	-2.5 to 2.5	Pass
		50	3.85	0.98	0.00	-2.5 to 2.5	Pass
	846.6	20	3.27	4.97	0.01	-2.5 to 2.5	Pass
			3.85	3.48	0.00	-2.5 to 2.5	Pass
			4.43	3.33	0.00	-2.5 to 2.5	Pass
		-30	3.85	4.56	0.01	-2.5 to 2.5	Pass
		-20	3.85	4.67	0.01	-2.5 to 2.5	Pass
		-10	3.85	3.33	0.00	-2.5 to 2.5	Pass
		0	3.85	3.50	0.00	-2.5 to 2.5	Pass
		10	3.85	3.67	0.00	-2.5 to 2.5	Pass
		30	3.85	3.61	0.00	-2.5 to 2.5	Pass
		40	3.85	4.12	0.00	-2.5 to 2.5	Pass
		50	3.85	4.58	0.01	-2.5 to 2.5	Pass



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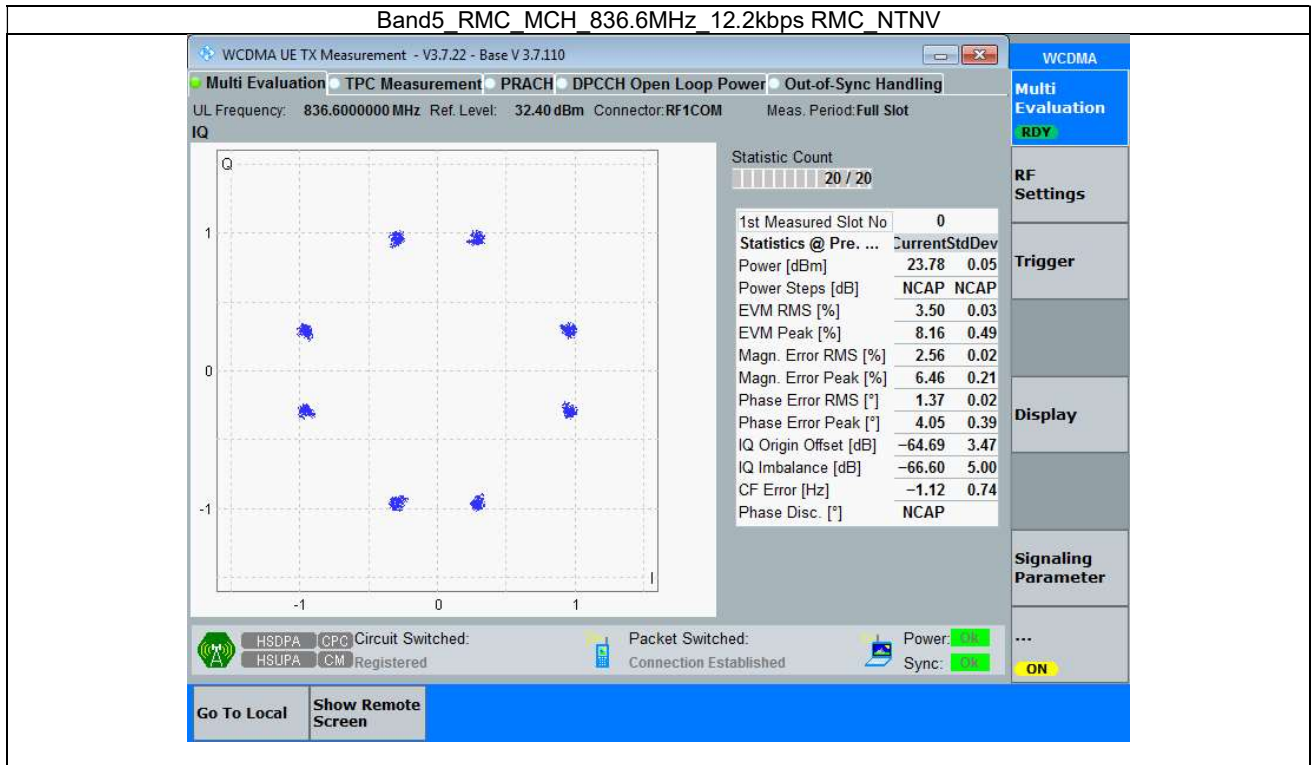
### 3. Modulation Characteristics

#### 3.1 Band5

##### 3.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass

##### 3.1.2 Test Graph

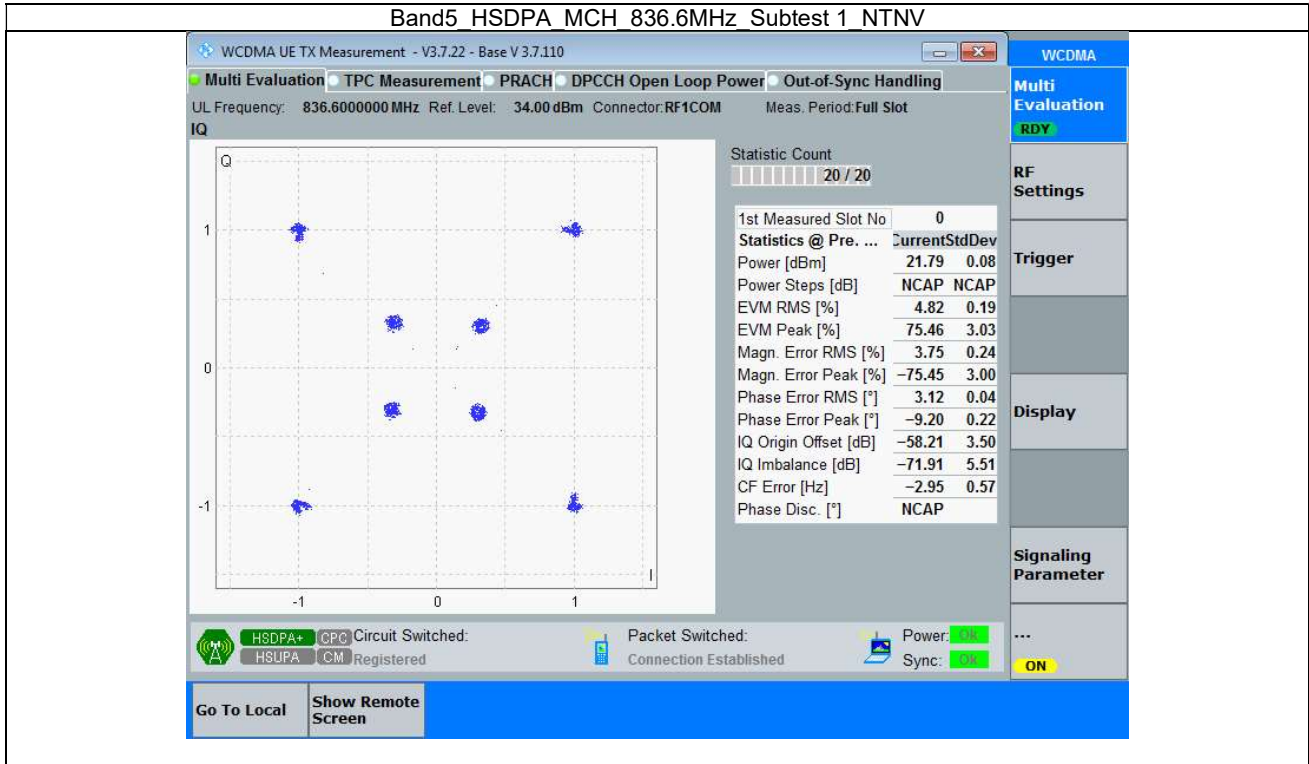


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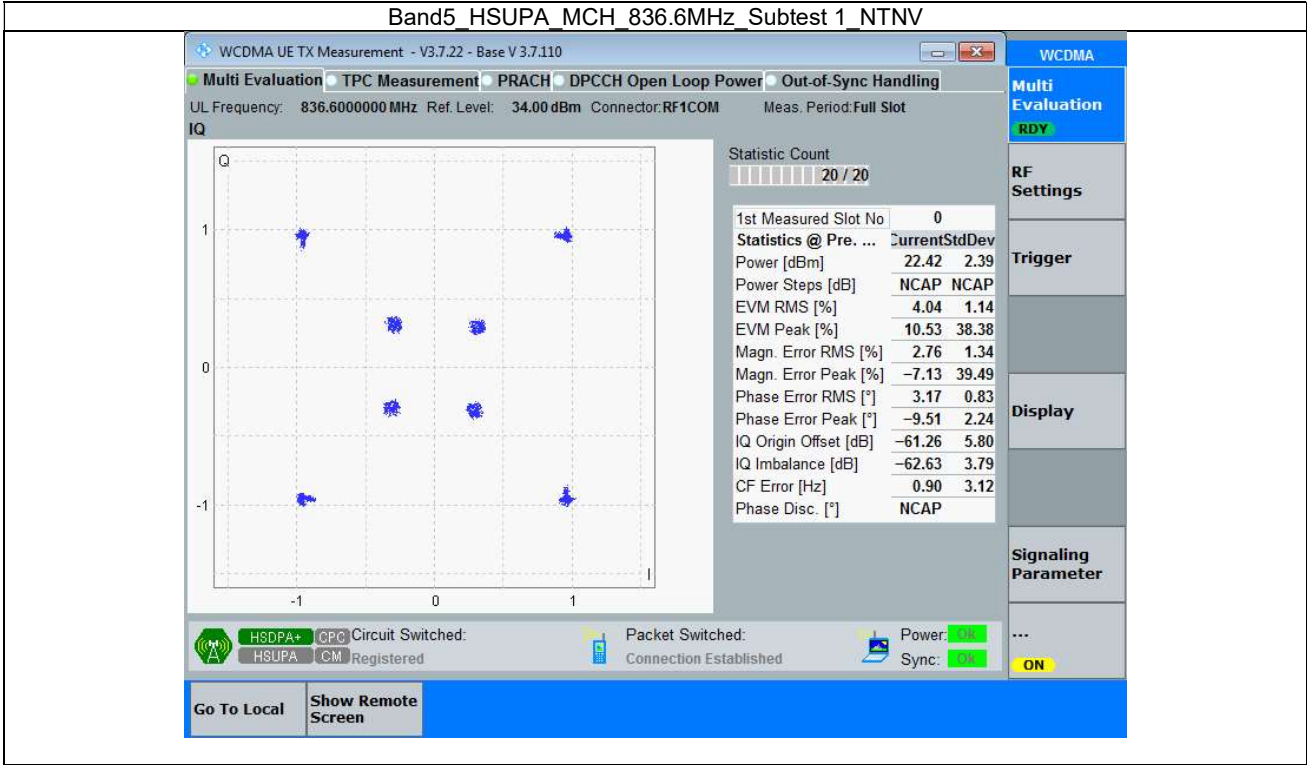
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#### 4. 99% & 26dB Bandwidth

##### 4.1 Band5\_OBW

##### 4.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.150	Pass
			836.6	4.121	Pass
			846.6	4.138	Pass
	HSDPA	Subtest 1	826.4	4.153	Pass
			836.6	4.150	Pass
			846.6	4.114	Pass
	HSUPA	Subtest 1	826.4	4.147	Pass
			836.6	4.152	Pass
			846.6	4.108	Pass



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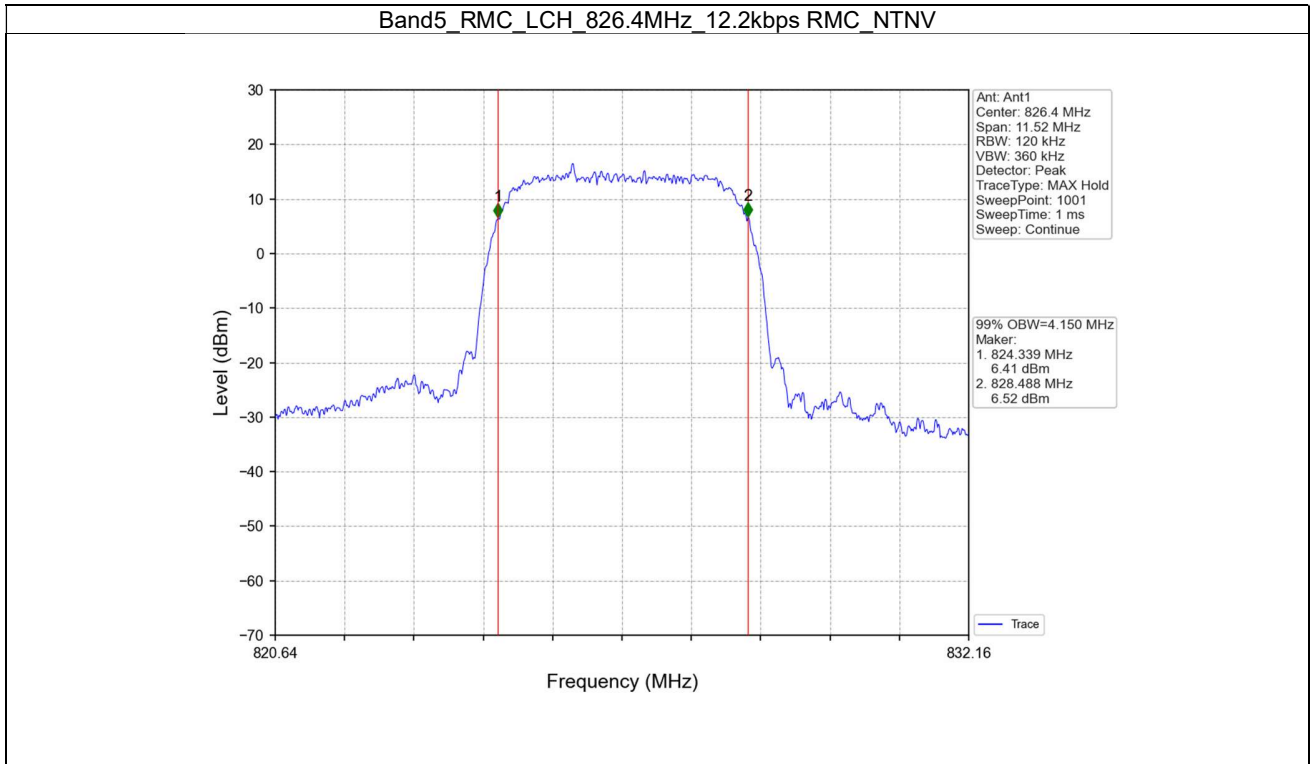
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#### 4.1.2 Test Graph



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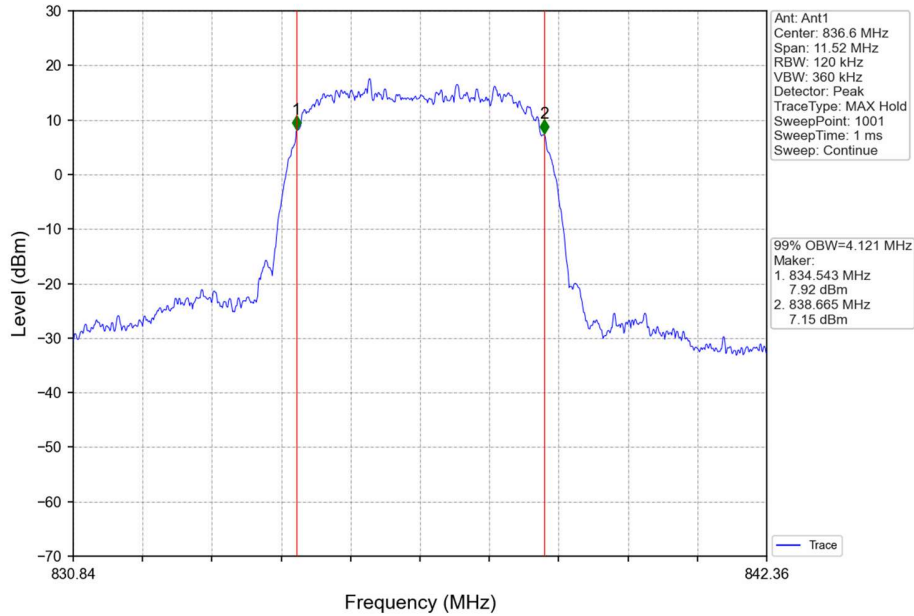
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Band5\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



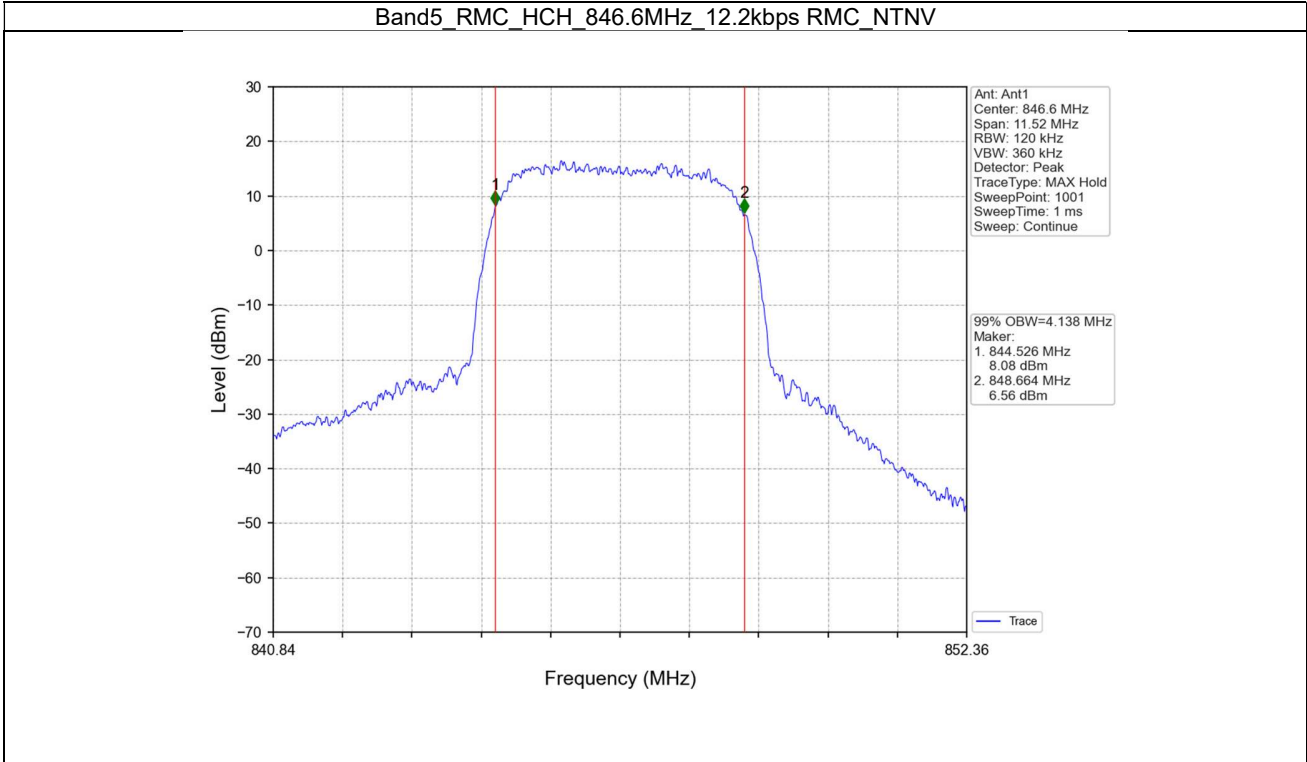
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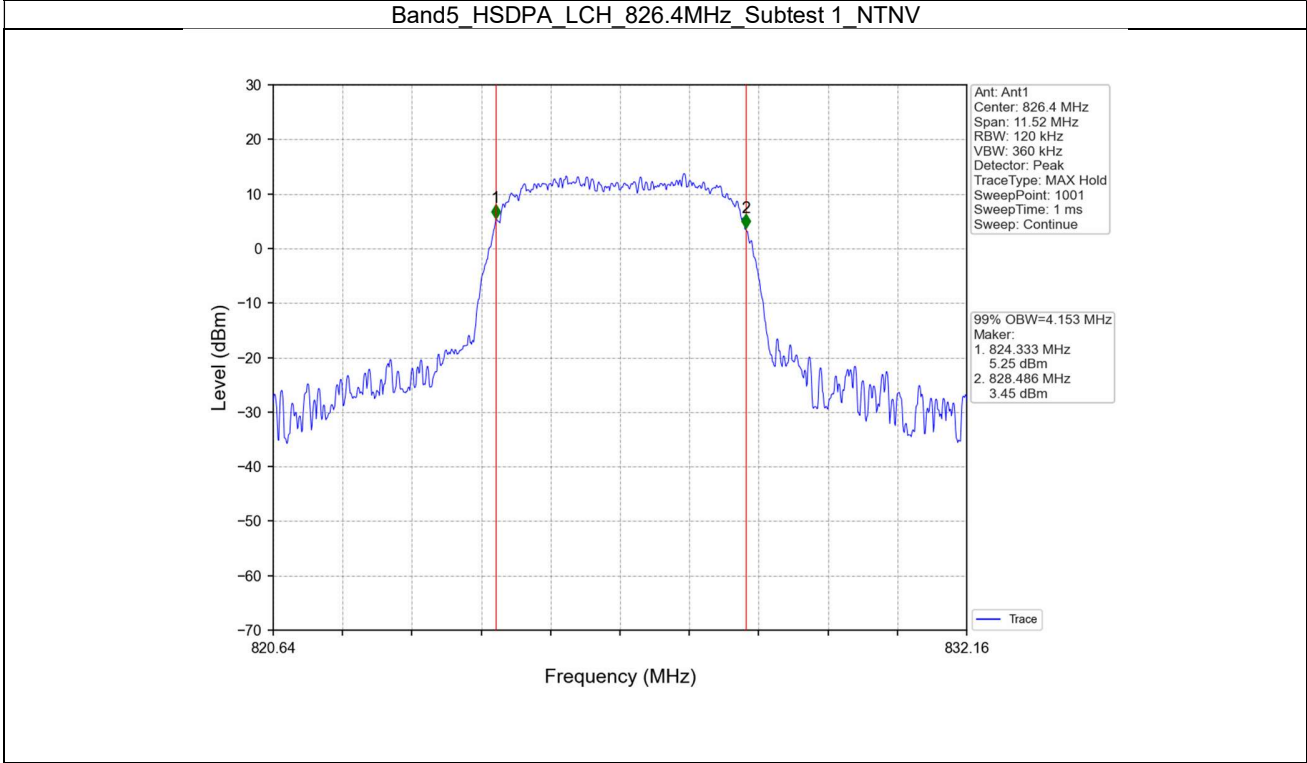


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Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV



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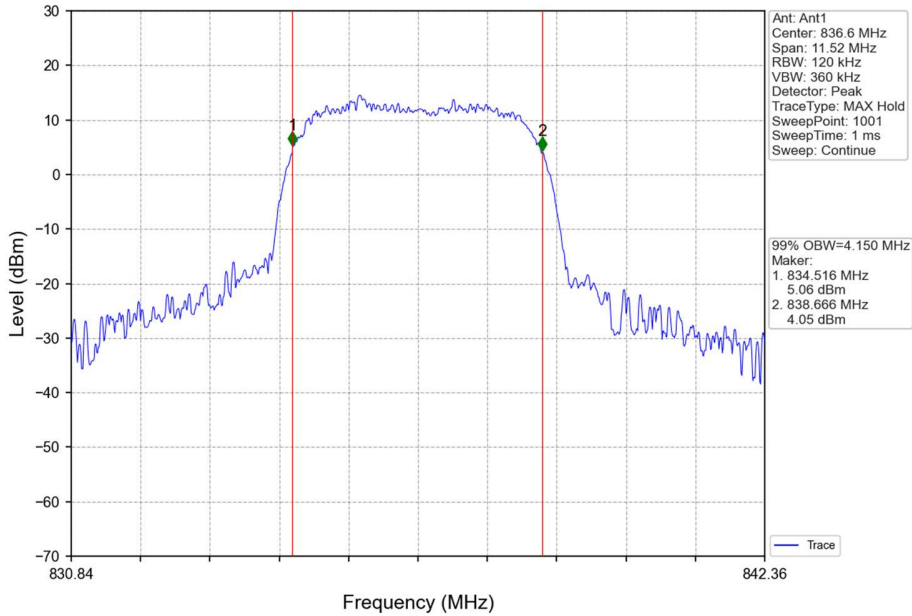
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Band5\_HSDPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



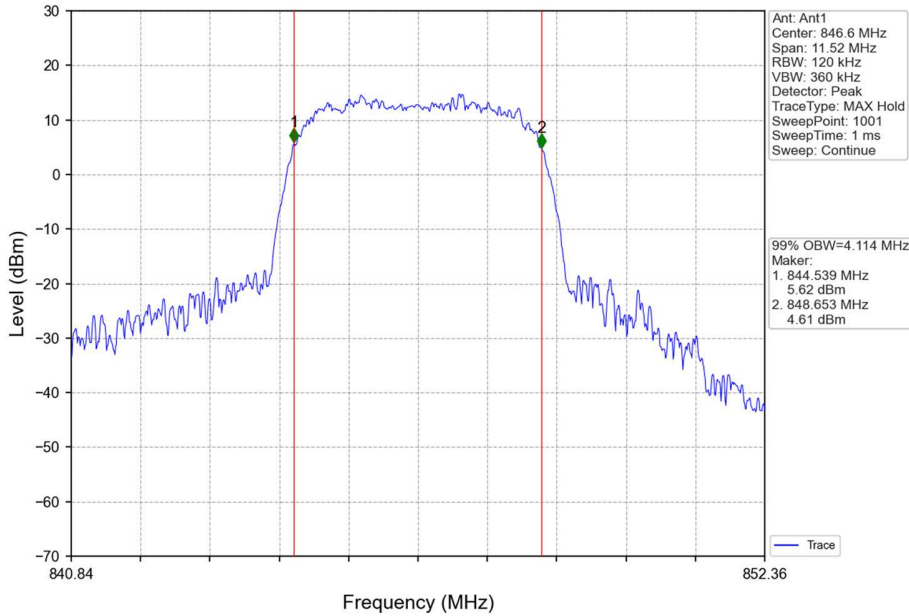
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Band5\_HSDPA\_HCH\_846.6MHz\_Subtest 1\_NTNV



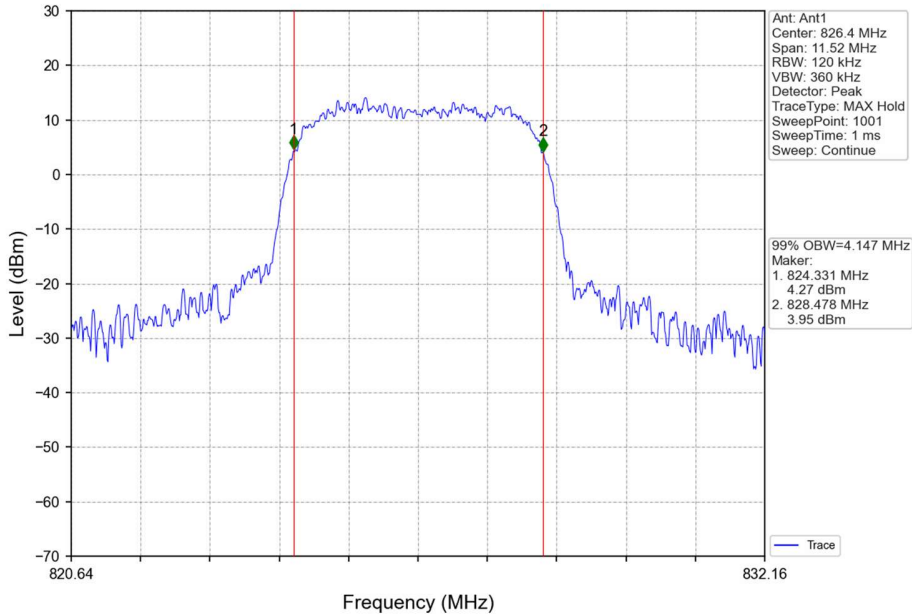
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Band5\_HSUPA\_LCH\_826.4MHz\_Subtest 1\_NTNV

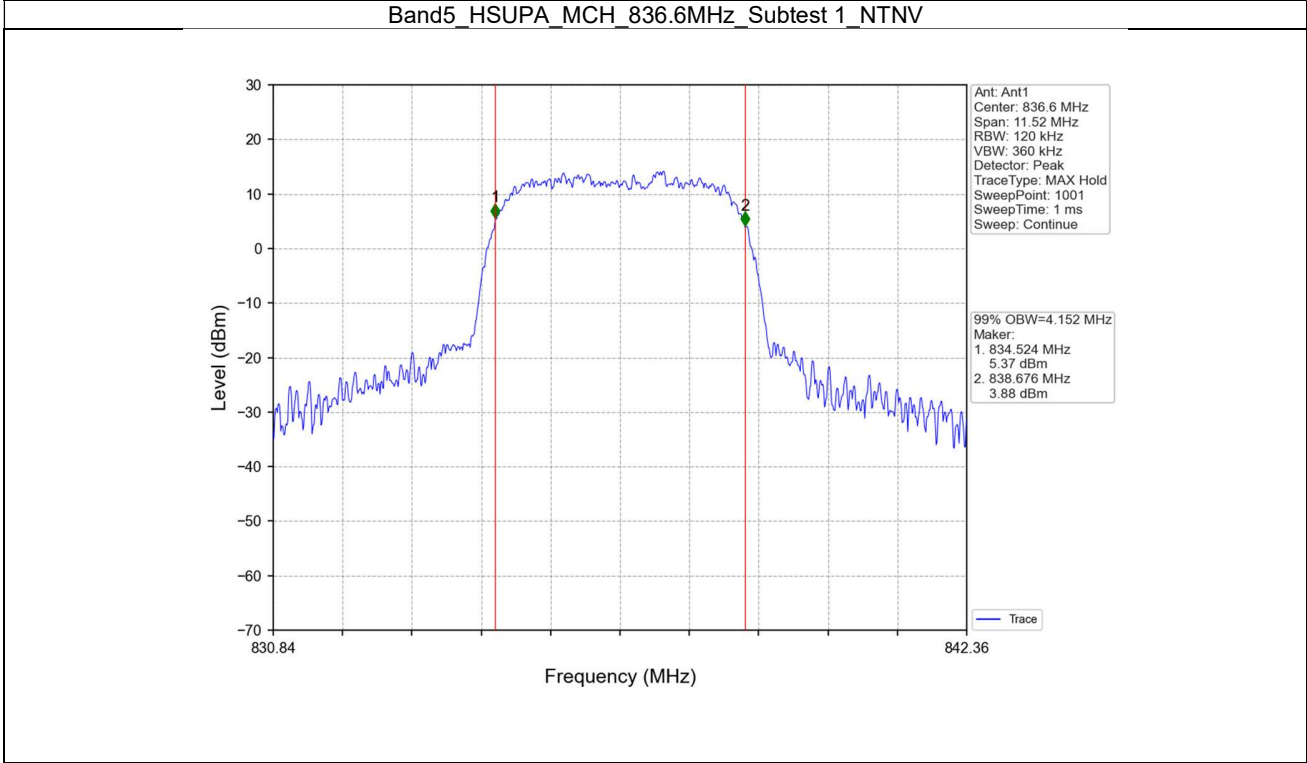


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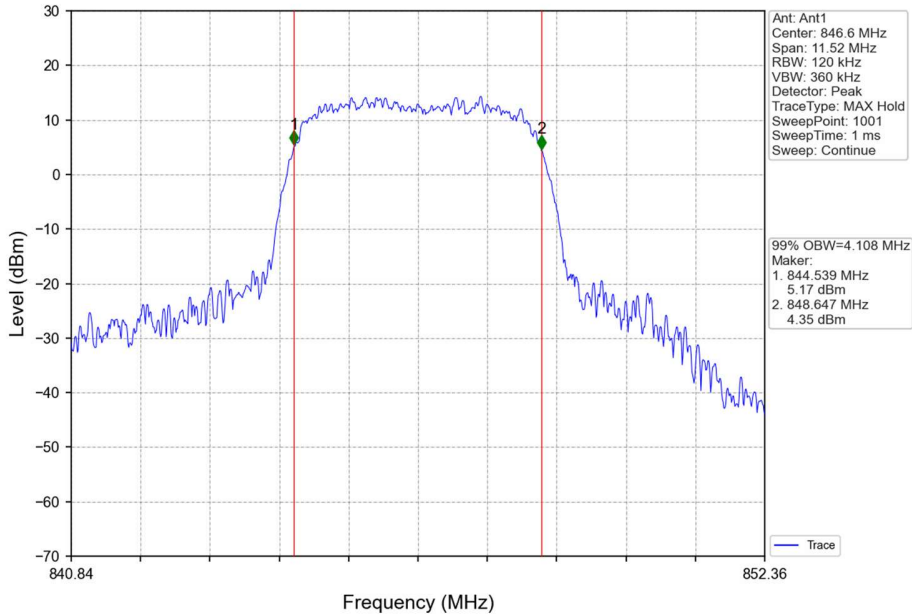
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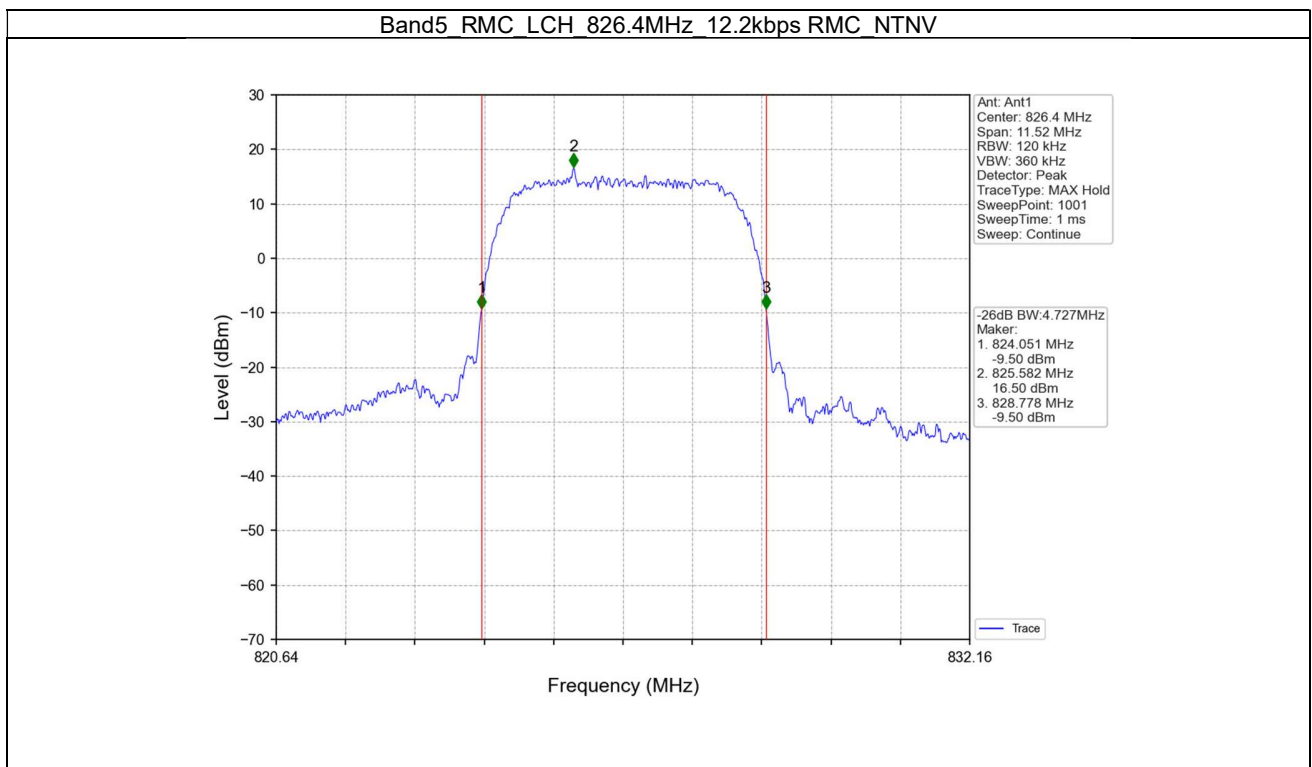


## 4.2 Band5\_XDB

### 4.2.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.727	Pass
			836.6	4.719	Pass
			846.6	4.760	Pass
	HSDPA	Subtest 1	826.4	4.783	Pass
			836.6	4.760	Pass
			846.6	4.744	Pass
	HSUPA	Subtest 1	826.4	4.777	Pass
			836.6	4.759	Pass
			846.6	4.765	Pass

### 4.2.2 Test Graph



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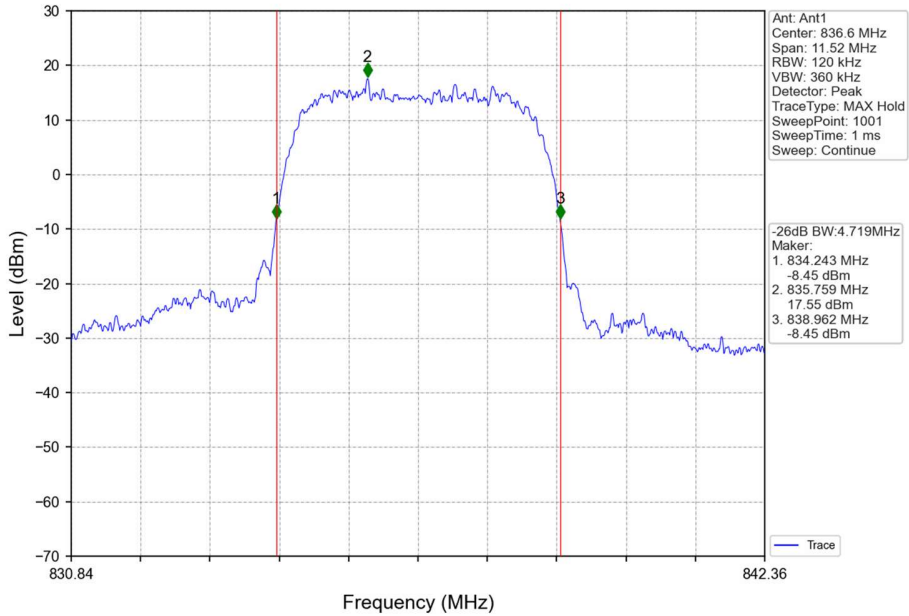
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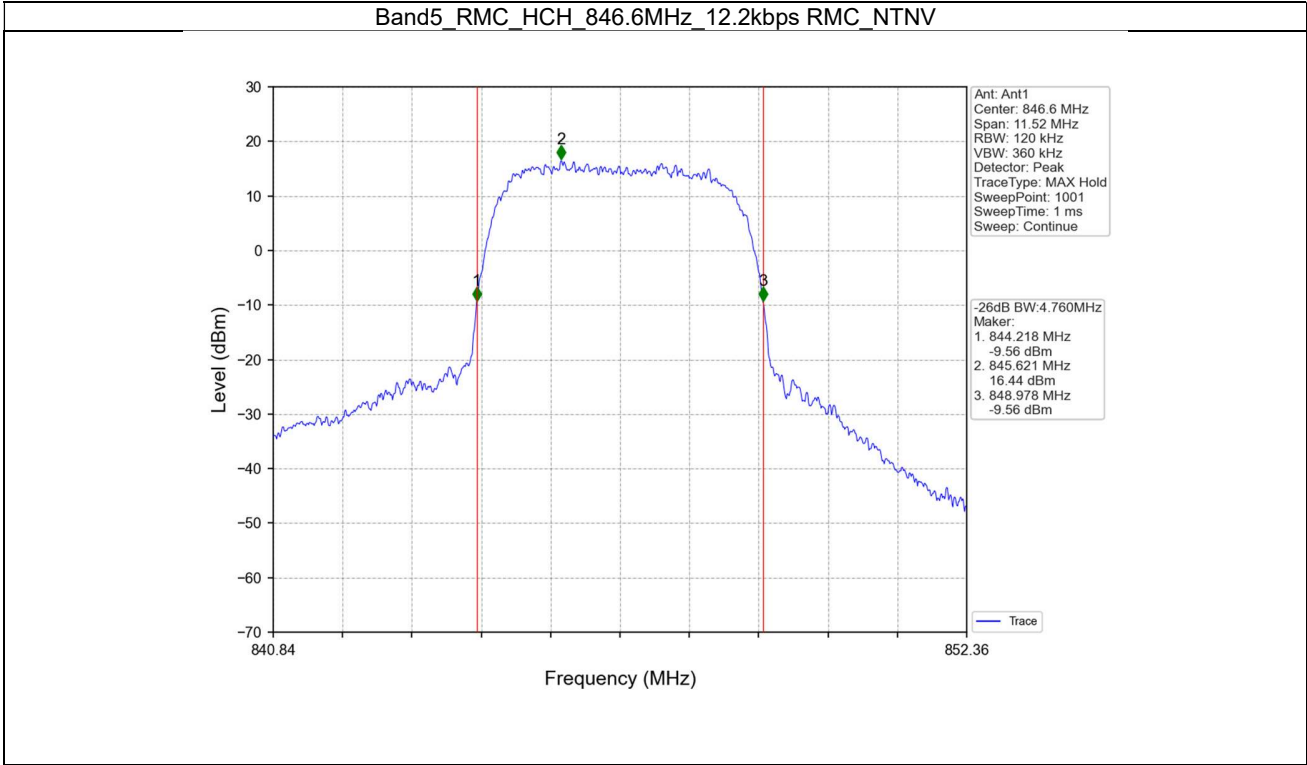
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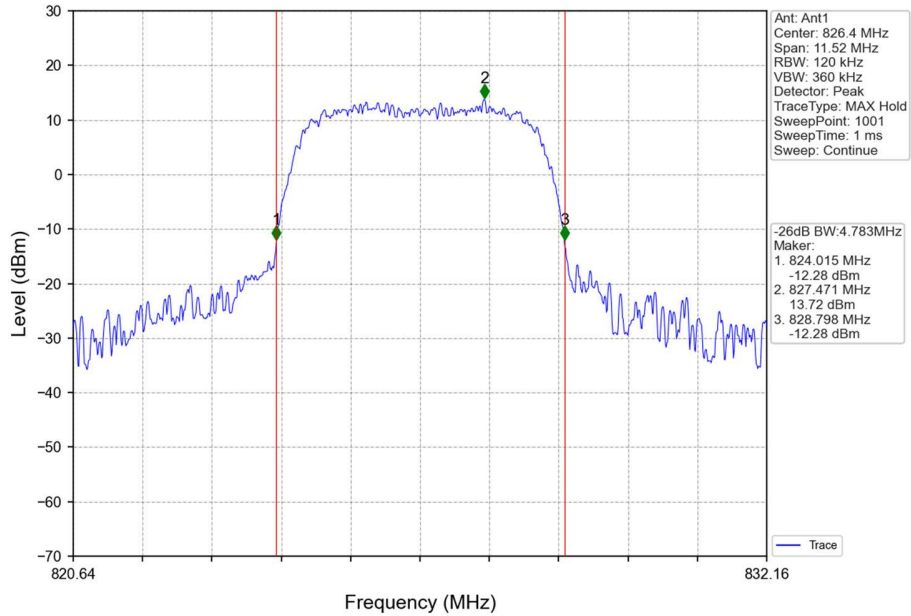
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Band5\_HSDPA\_LCH\_826.4MHz\_Subtest 1\_NTNV

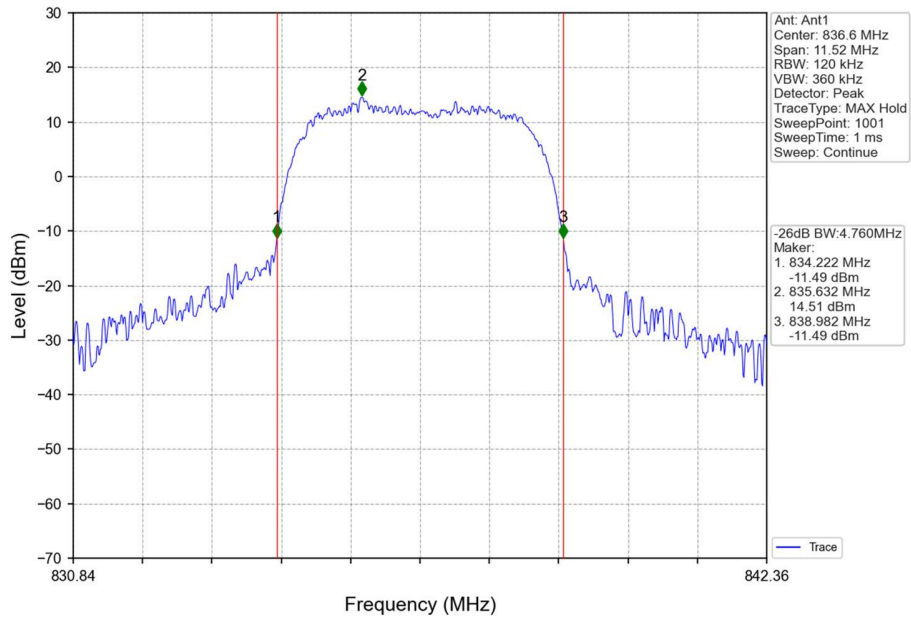


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Band5\_HSDPA\_MCH\_836.6MHz\_Subtest 1\_NTNV

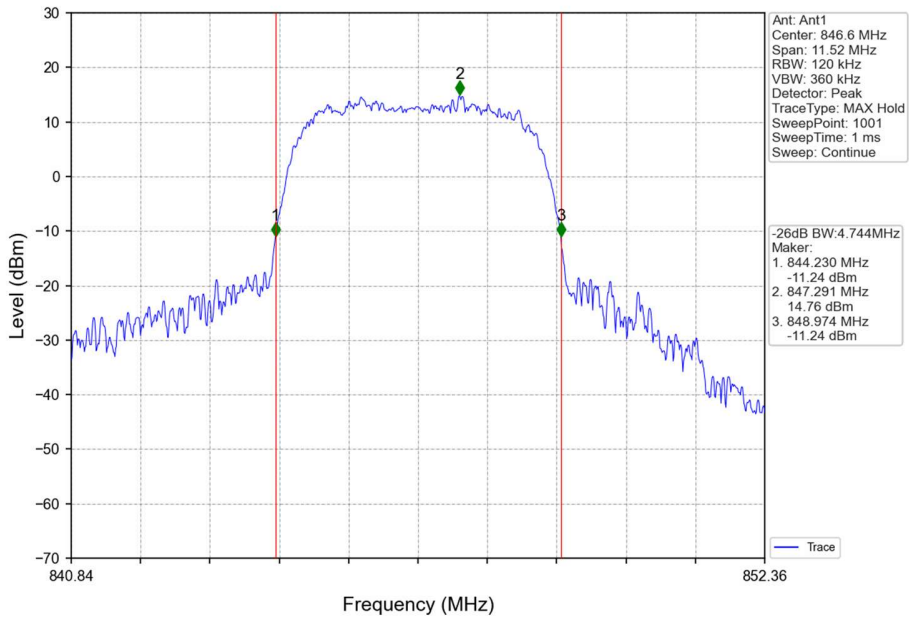


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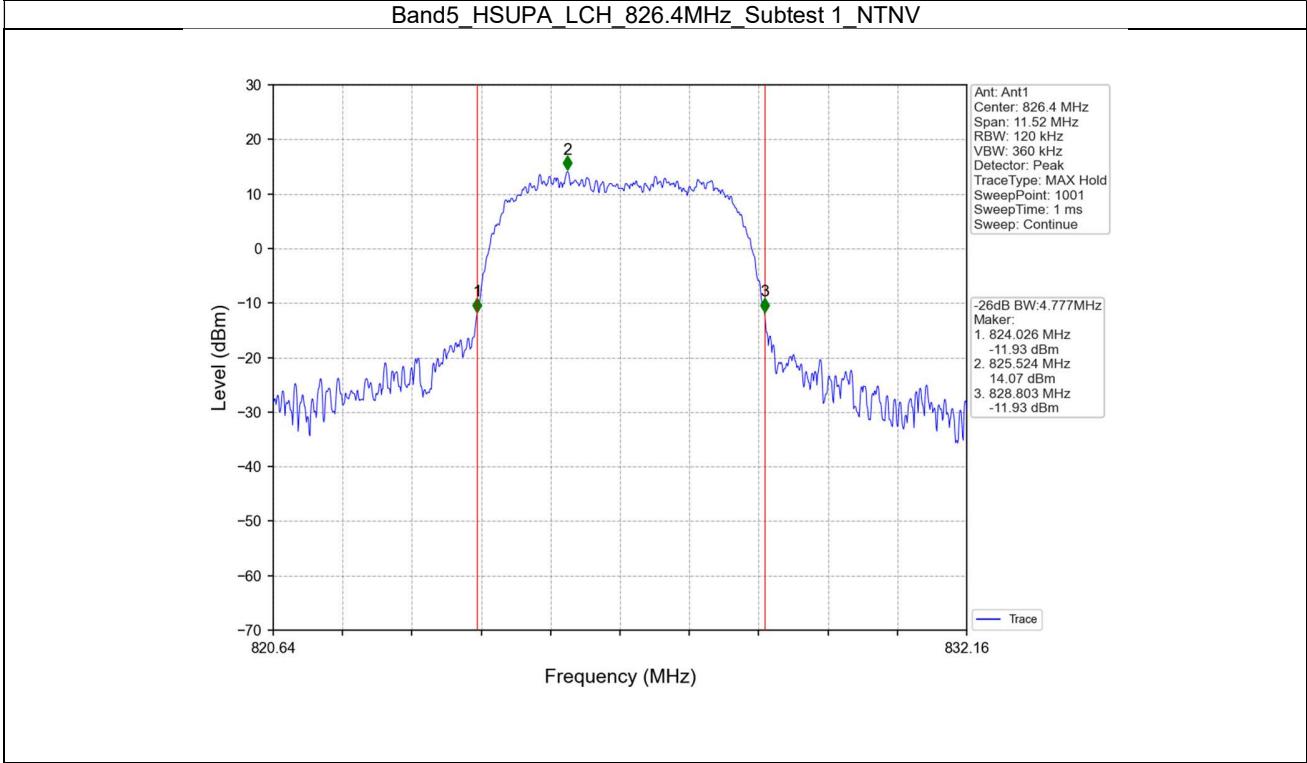


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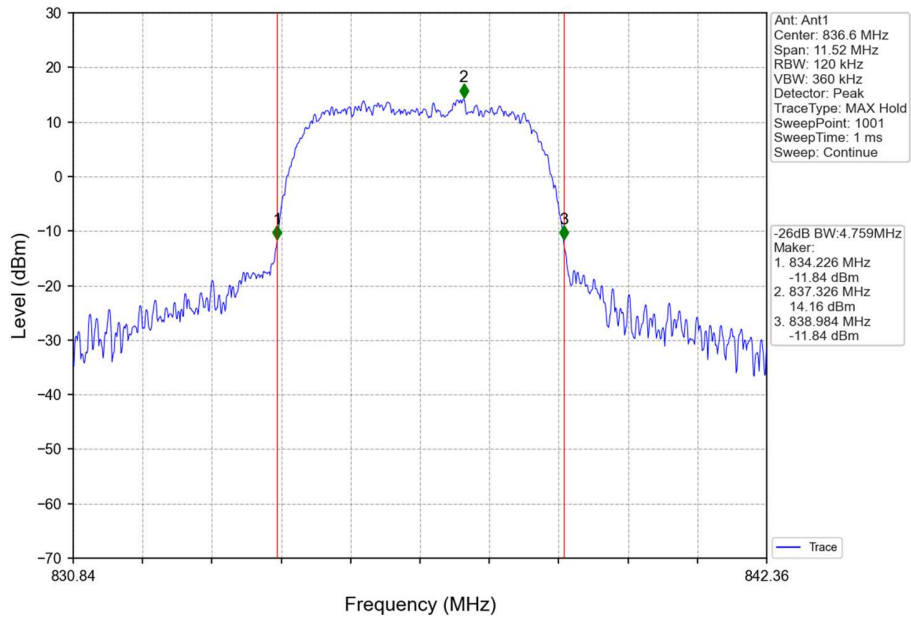
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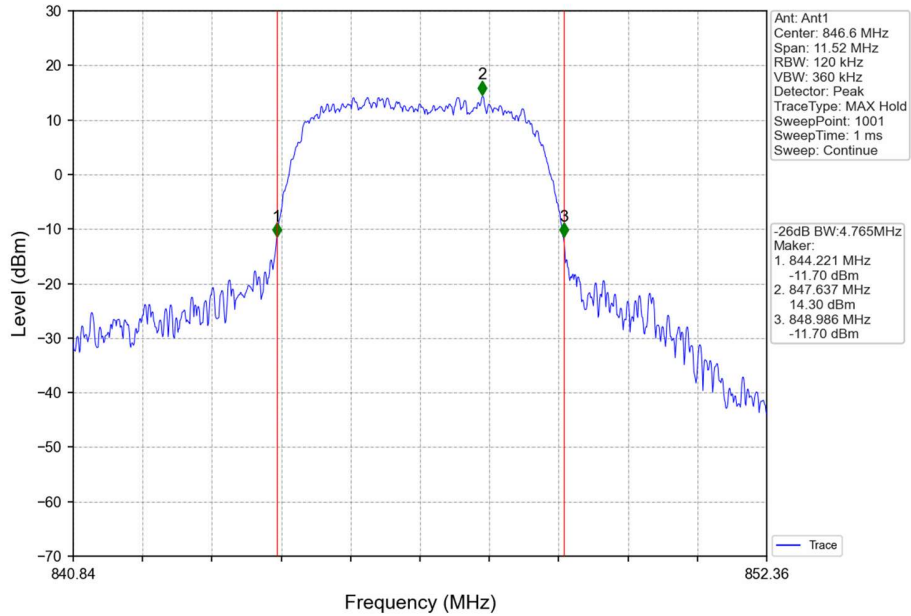


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## 5. Peak-Average Ratio

### 5.1 Band5

#### 5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.05	<=13	Pass
			836.6	3.05	<=13	Pass
			846.6	2.93	<=13	Pass
	HSDPA	Subtest 1	826.4	5.79	<=13	Pass
			836.6	6.03	<=13	Pass
			846.6	5.87	<=13	Pass
	HSUPA	Subtest 1	826.4	5.74	<=13	Pass
			836.6	5.90	<=13	Pass
			846.6	5.93	<=13	Pass



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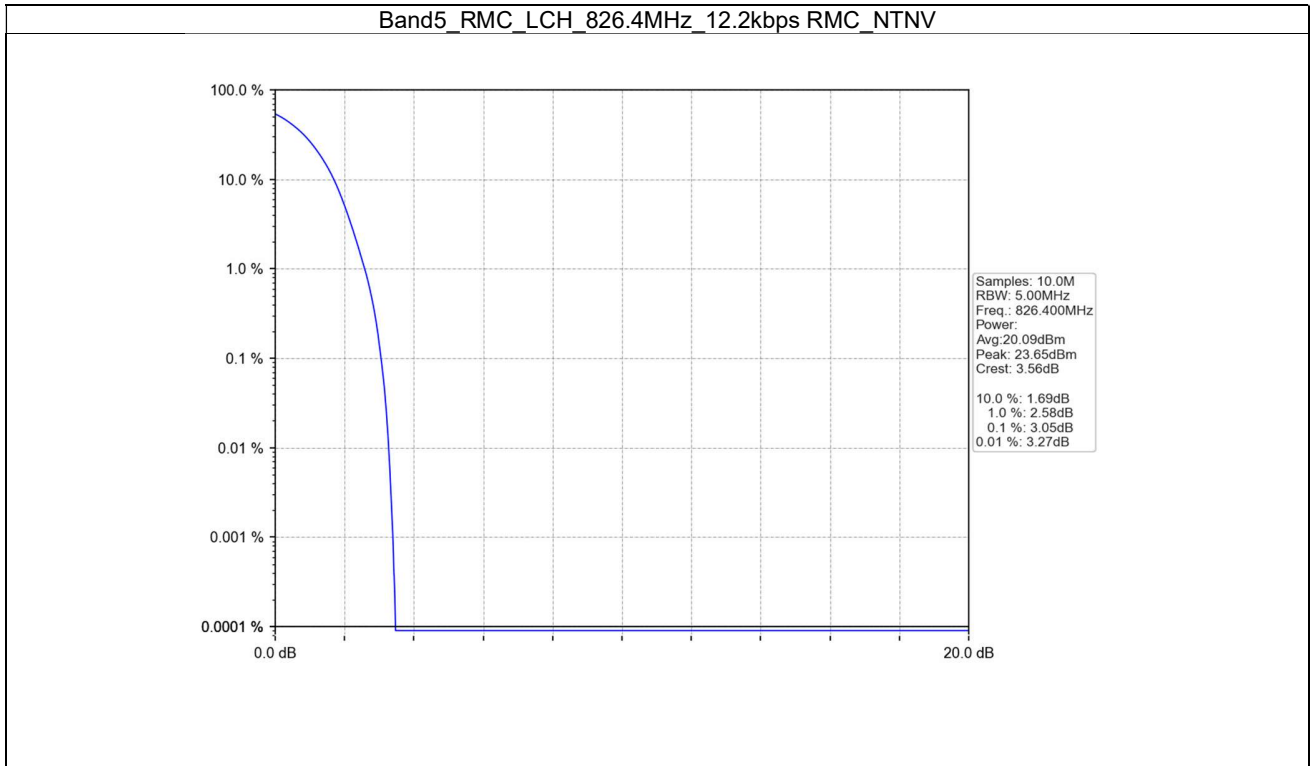
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5.1.2 Test Graph



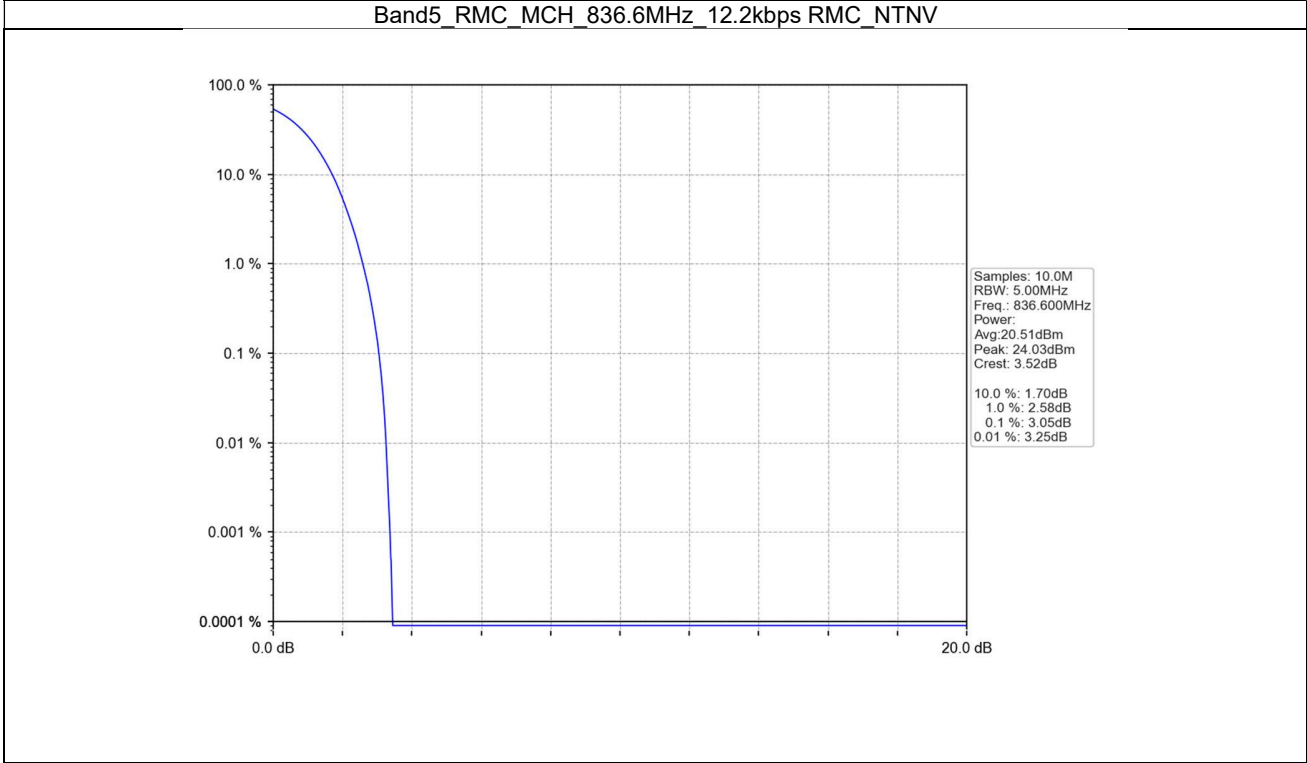
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Band5\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



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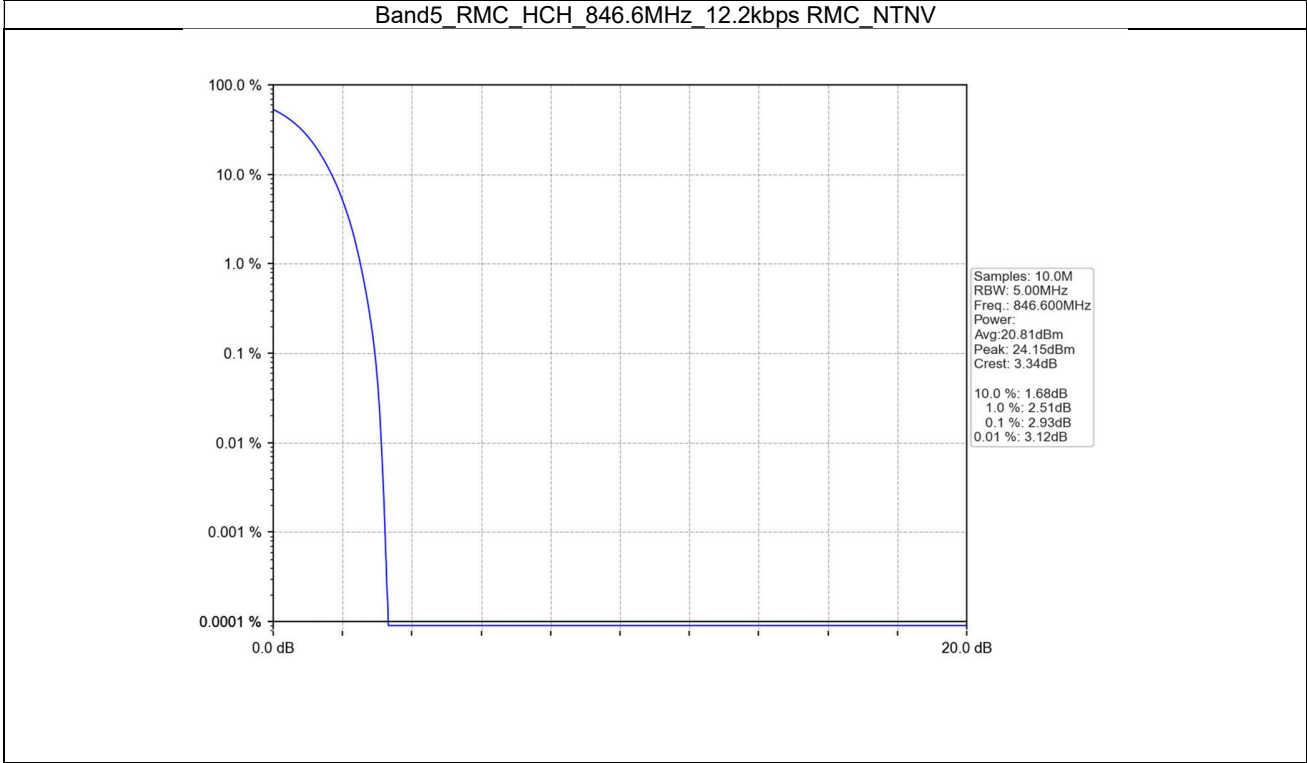
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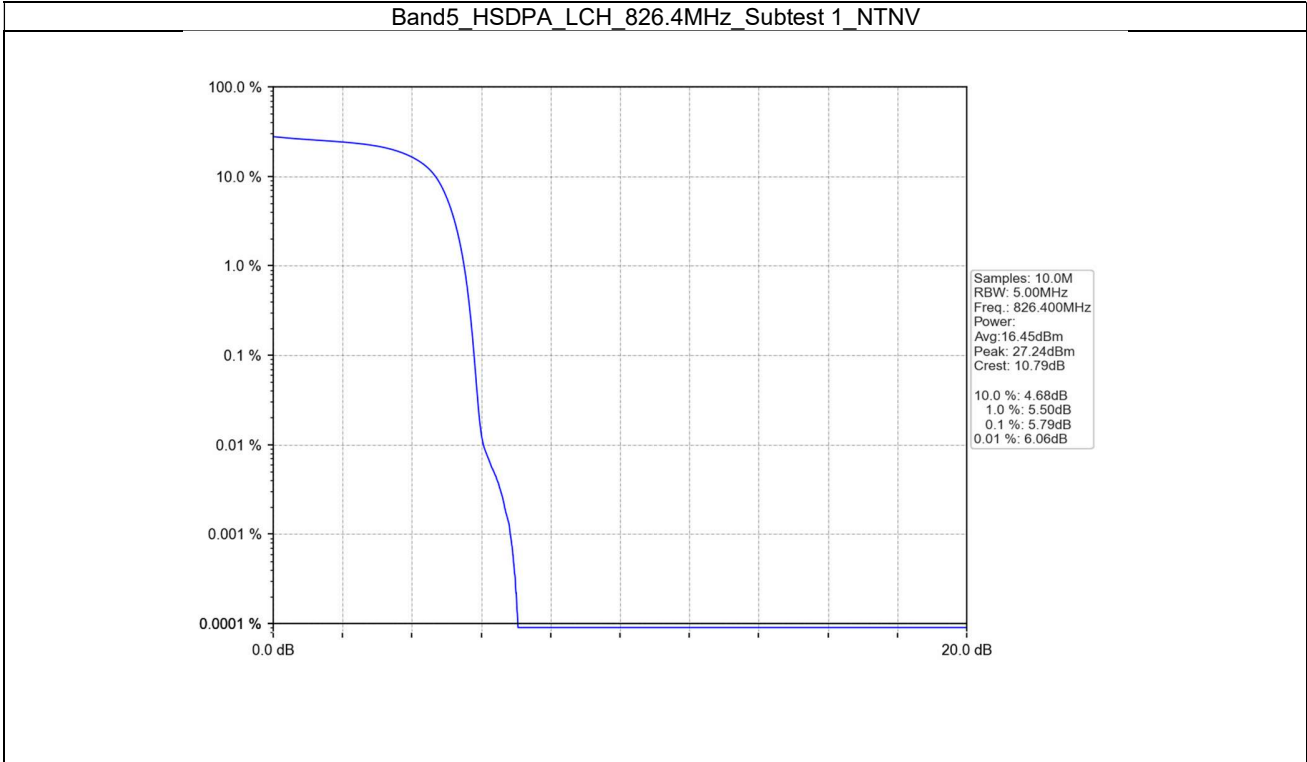
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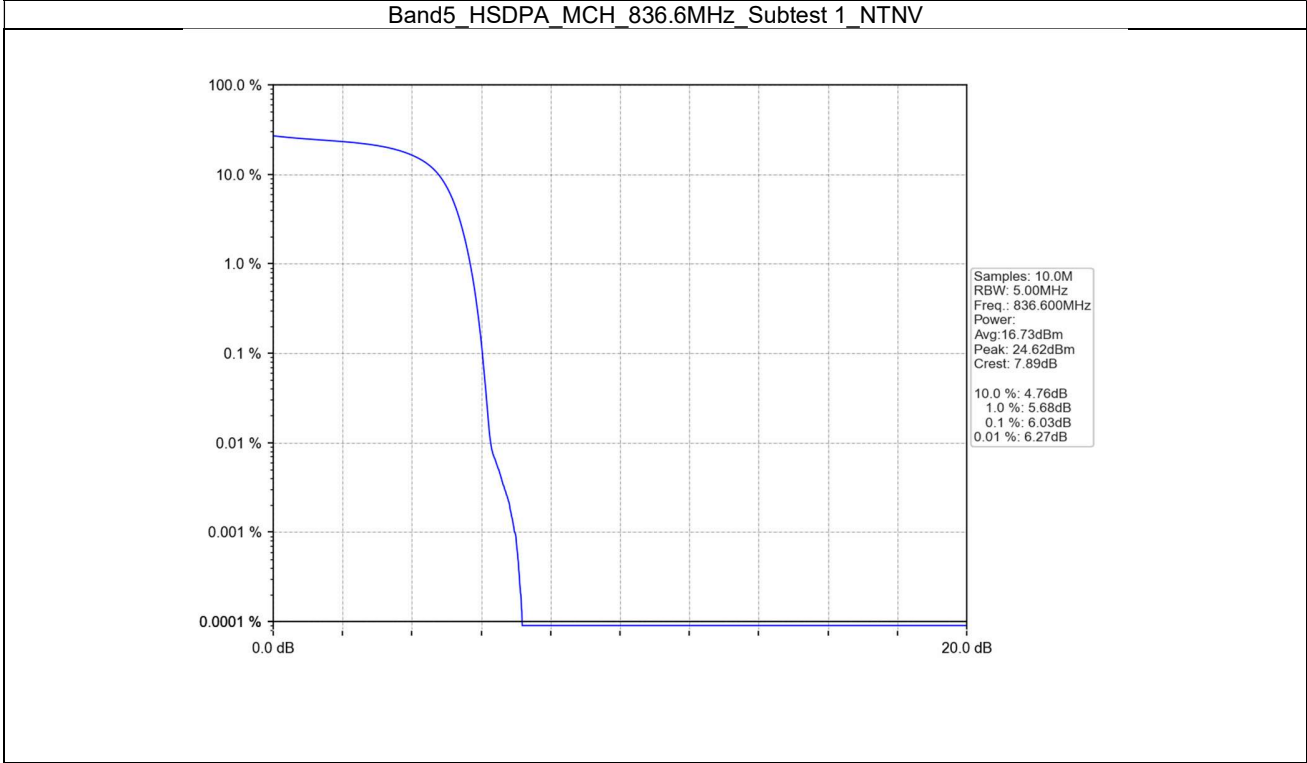
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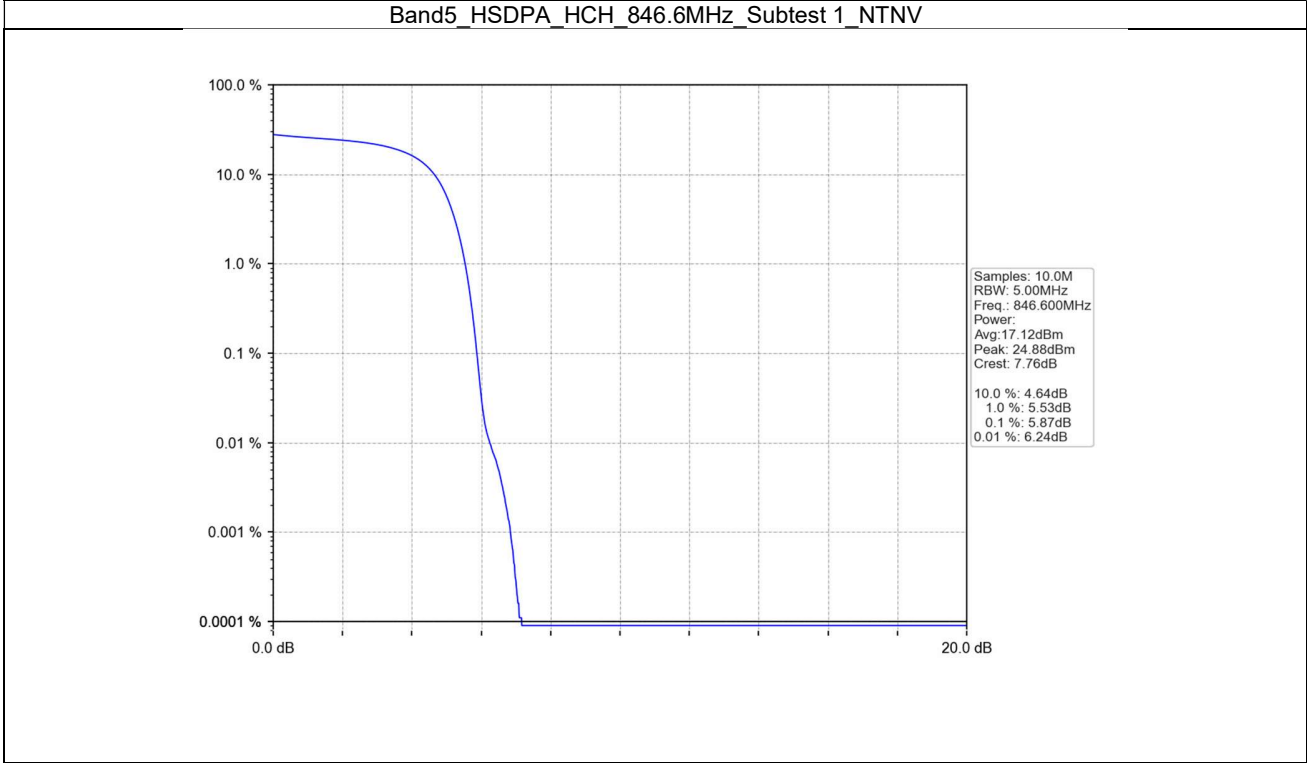
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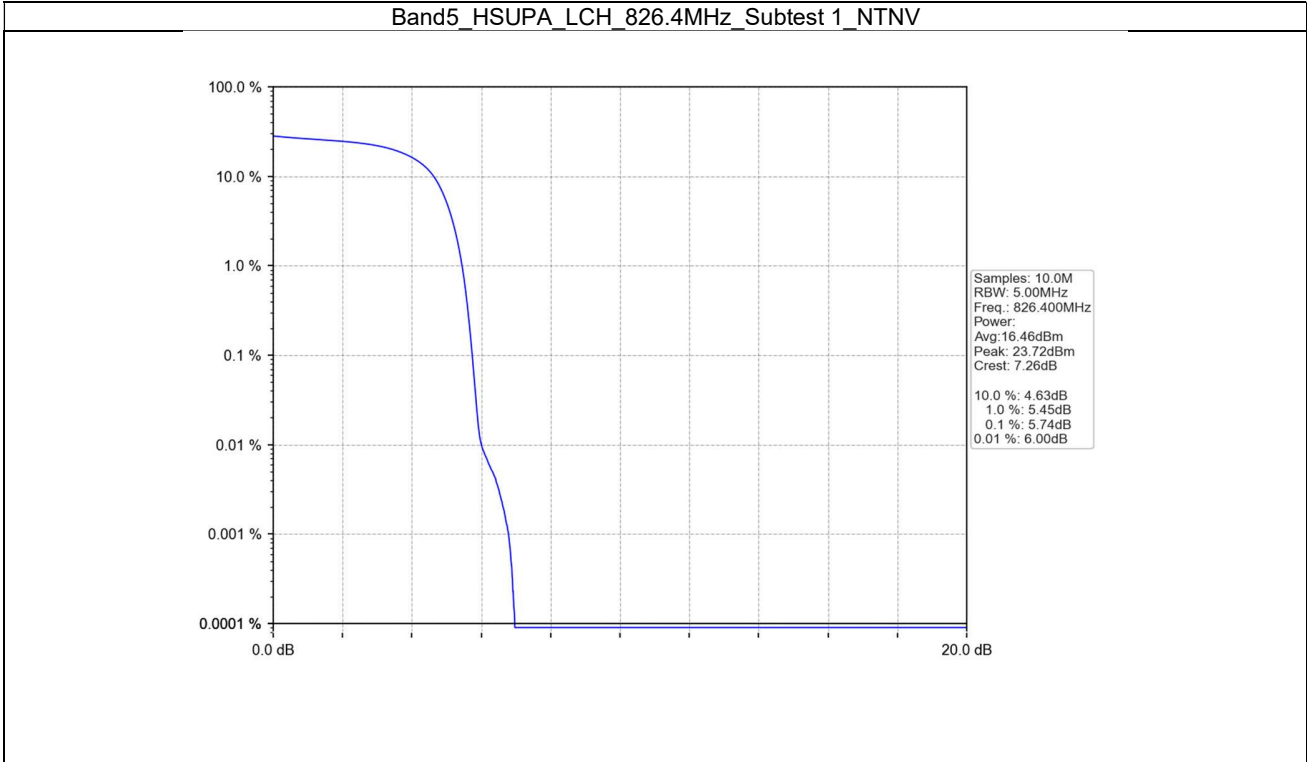
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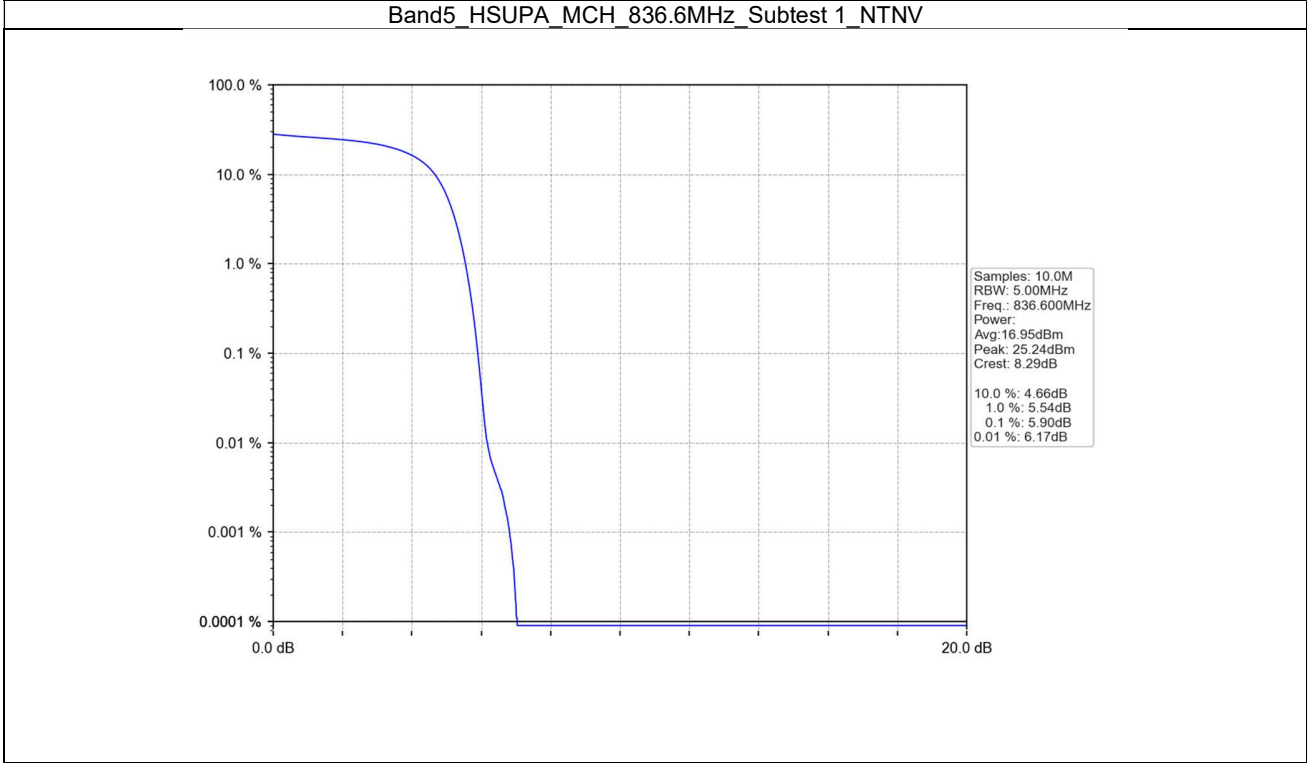
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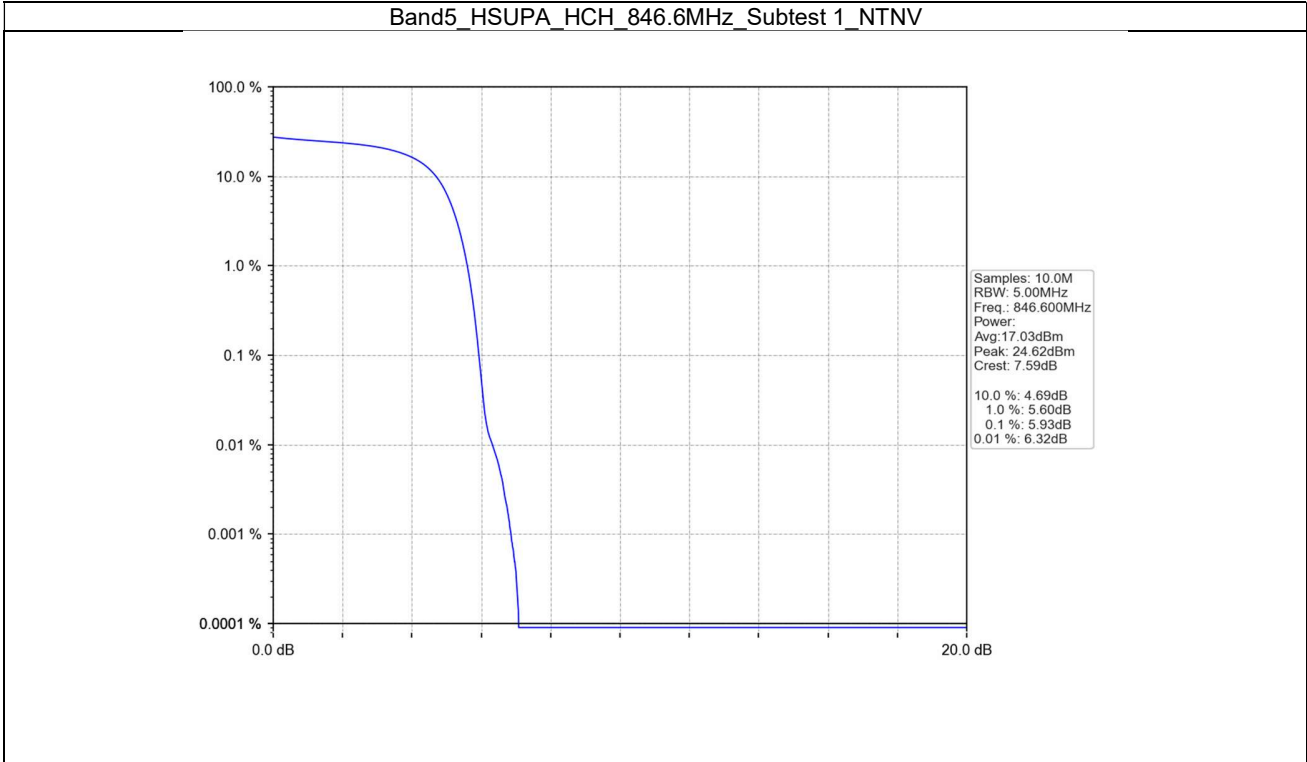
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## 6. Spurious Emission

### 6.1 Band5

#### 6.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	

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.



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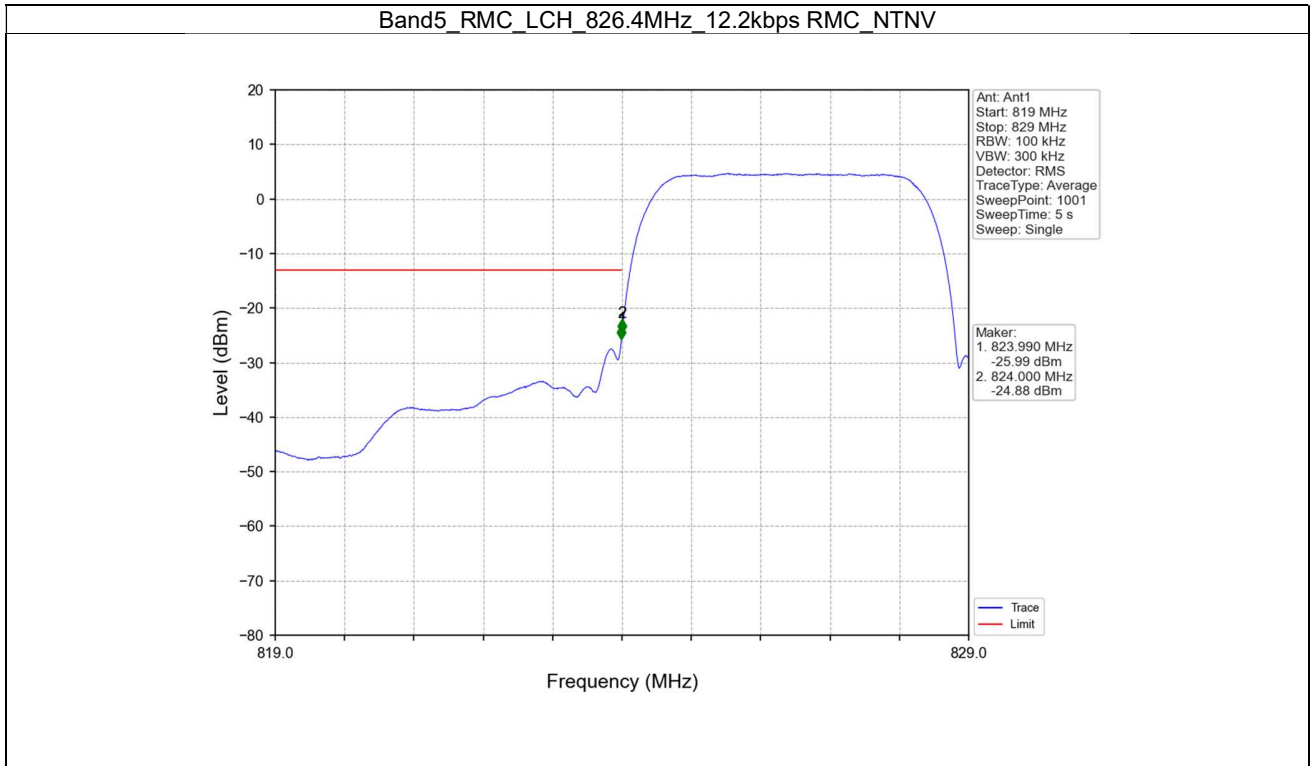
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6.1.2 Test Graph



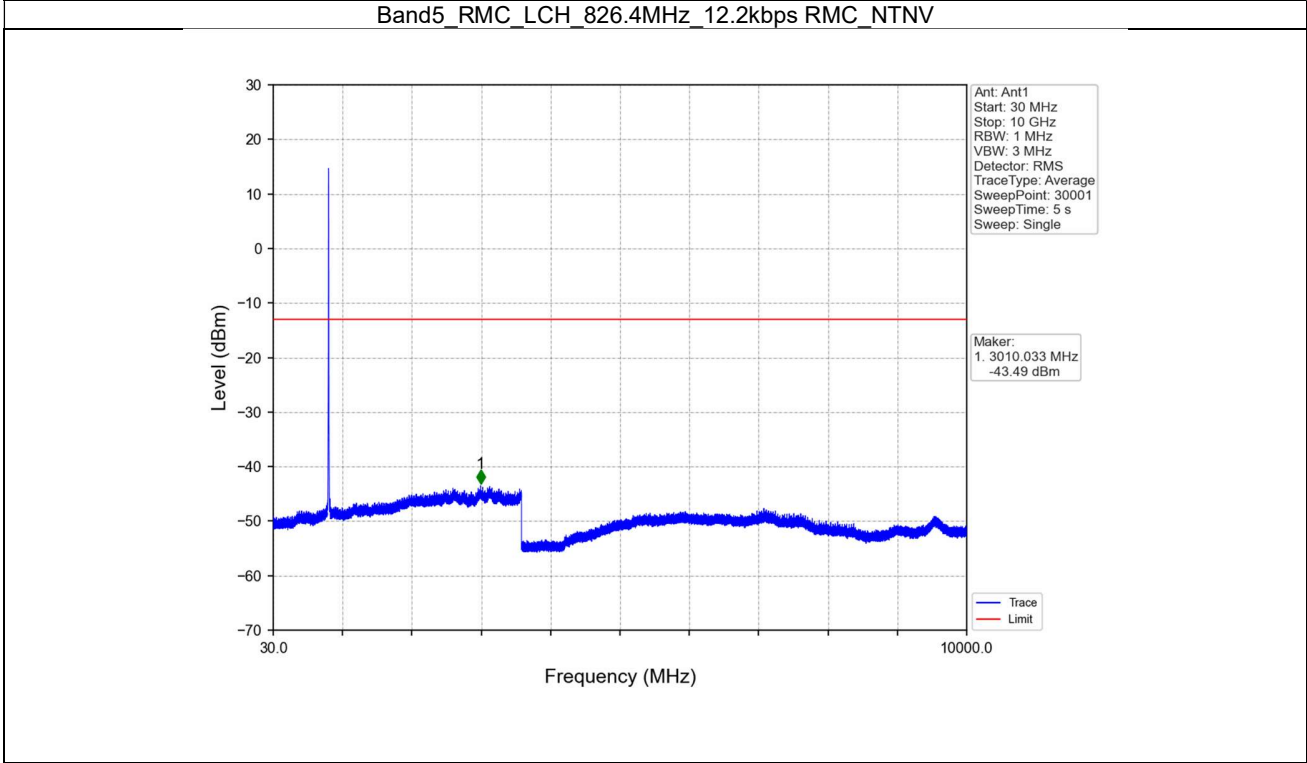
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Band5\_RMC\_LCH\_826.4MHz\_12.2kbps\_RMC\_NTNV



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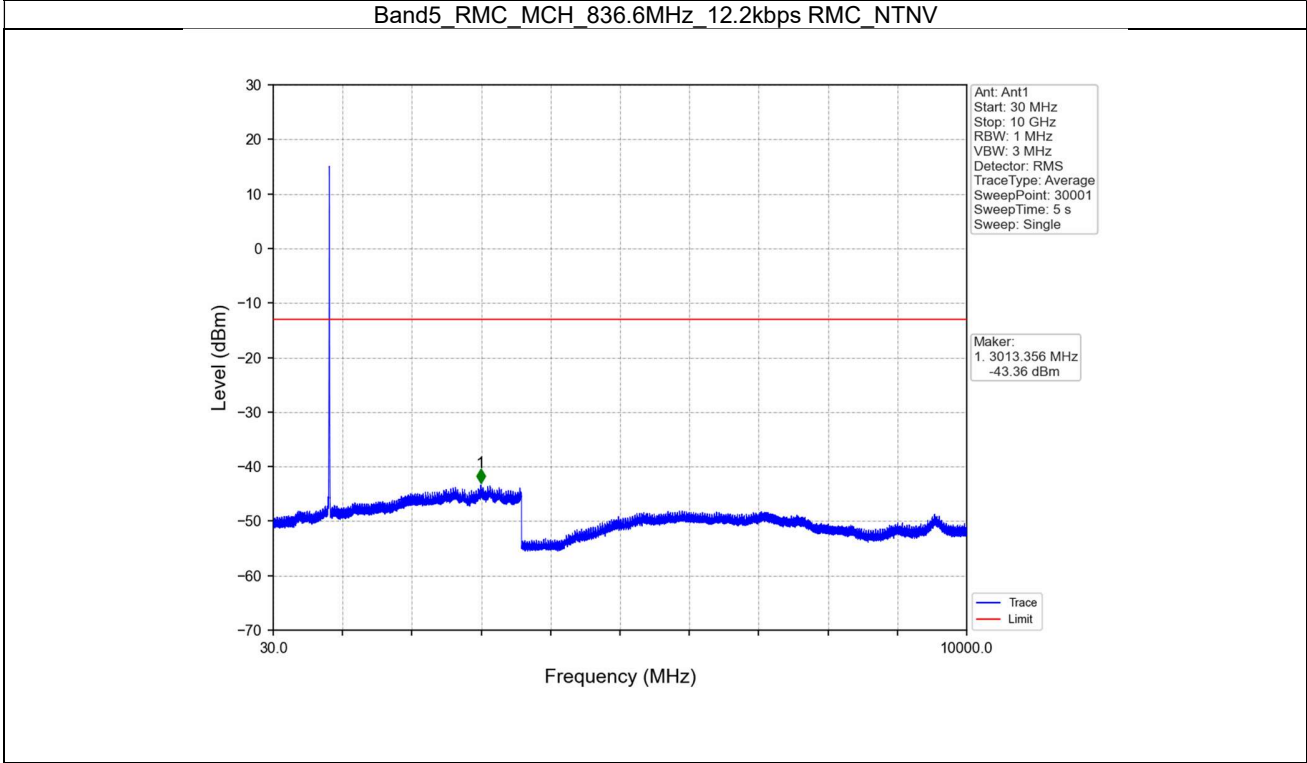
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Band5\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



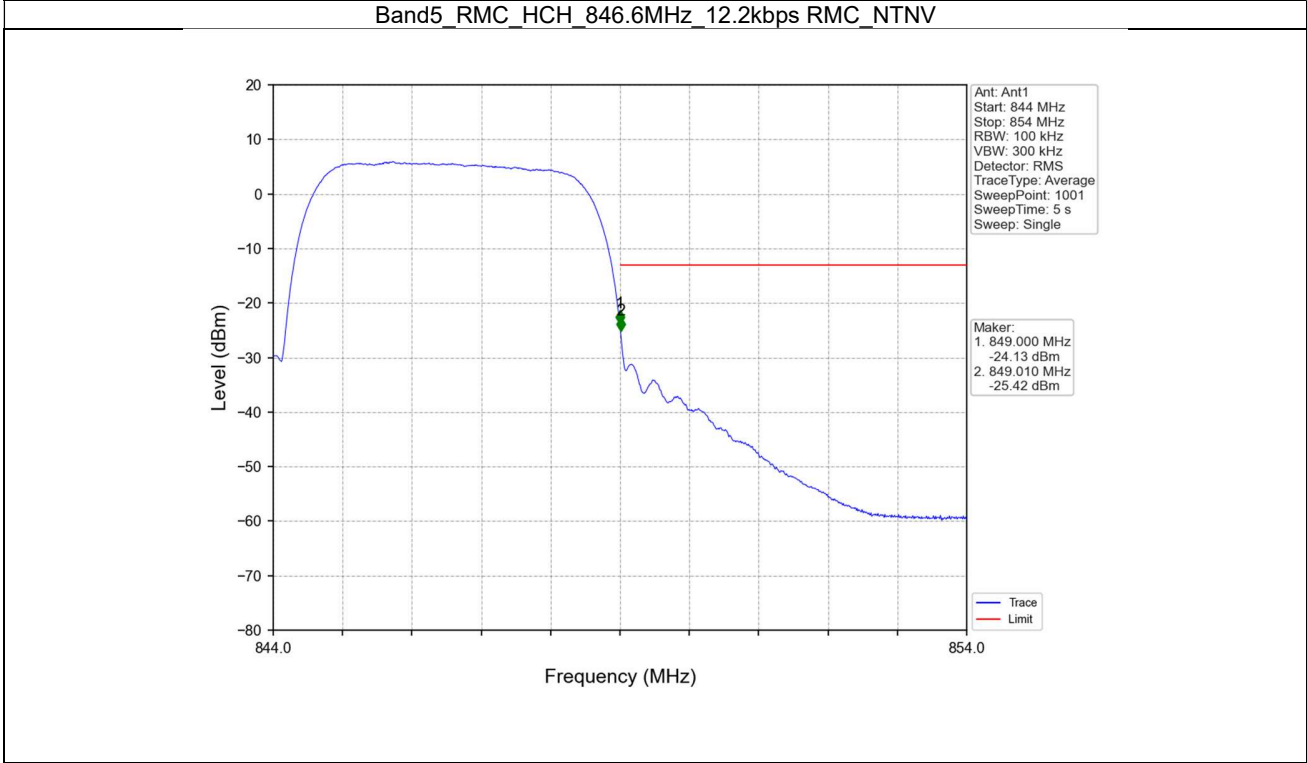
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Band5\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



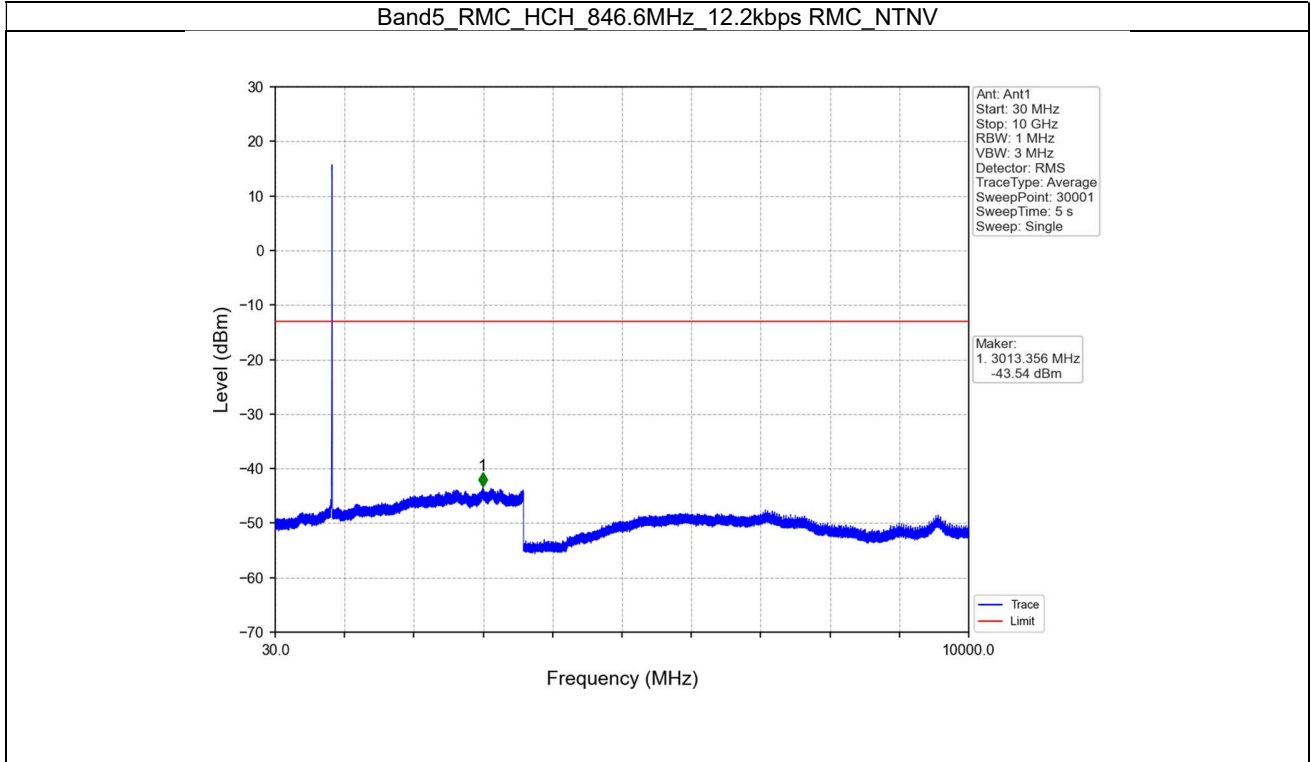
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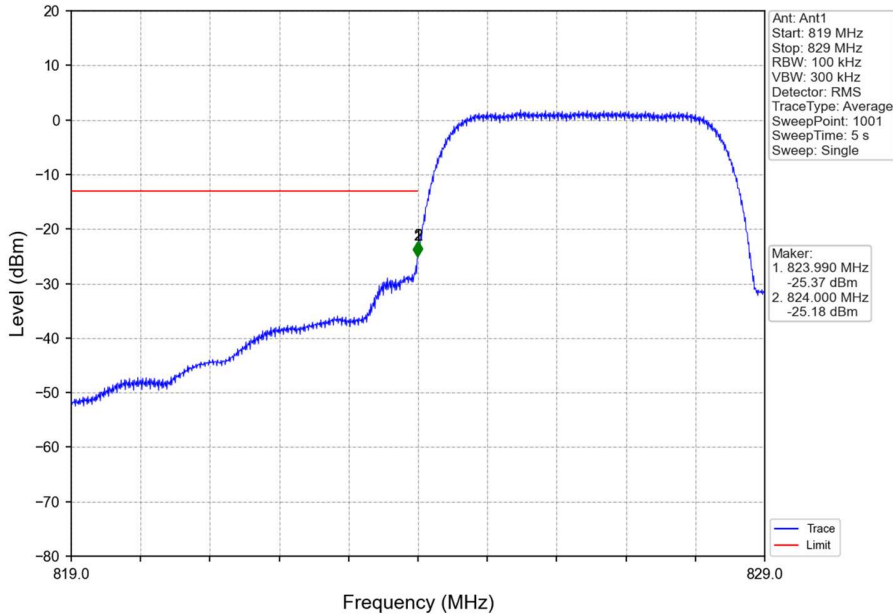
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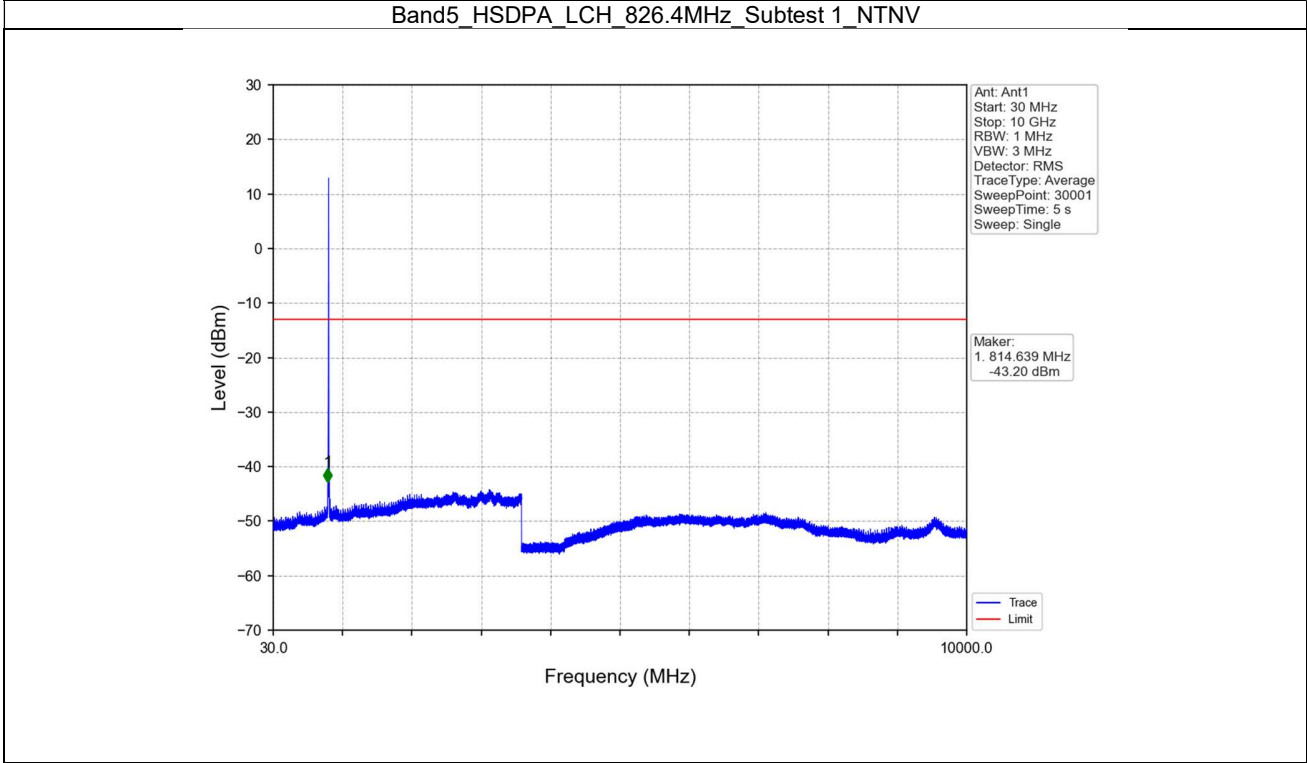
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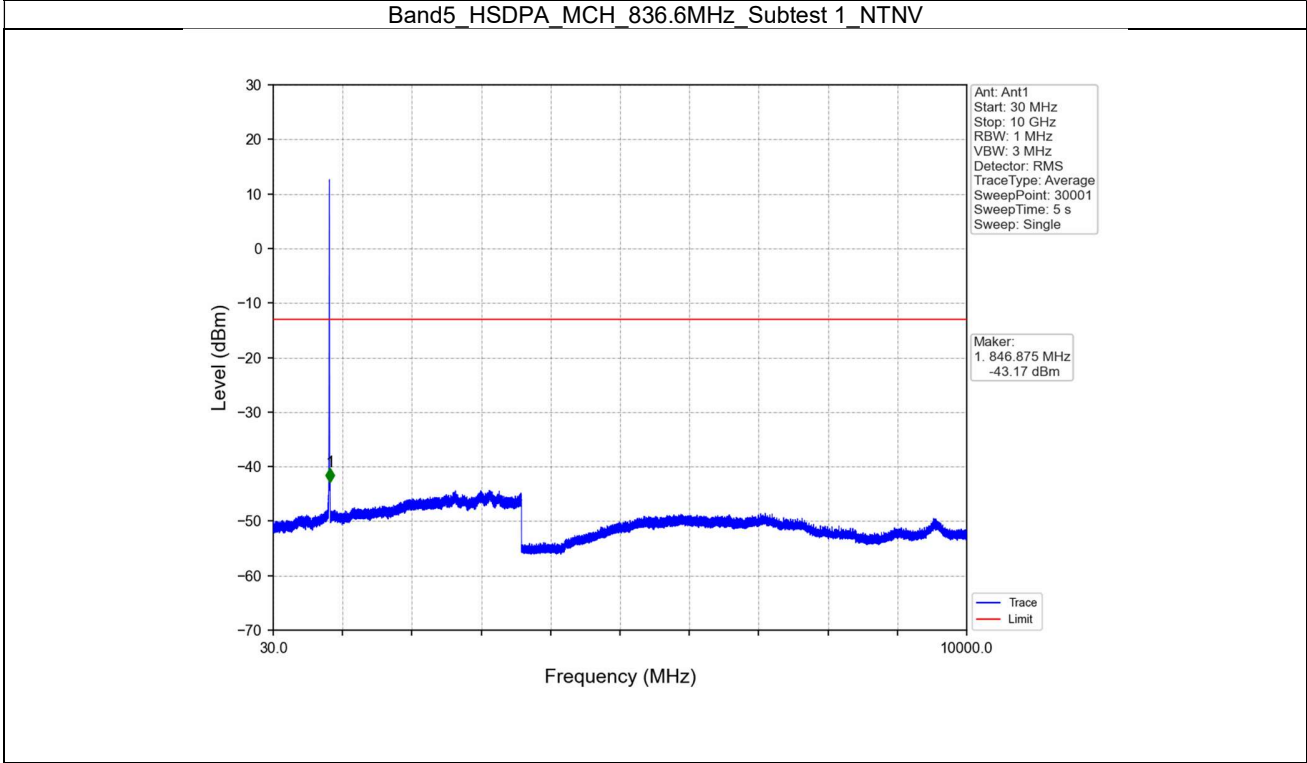
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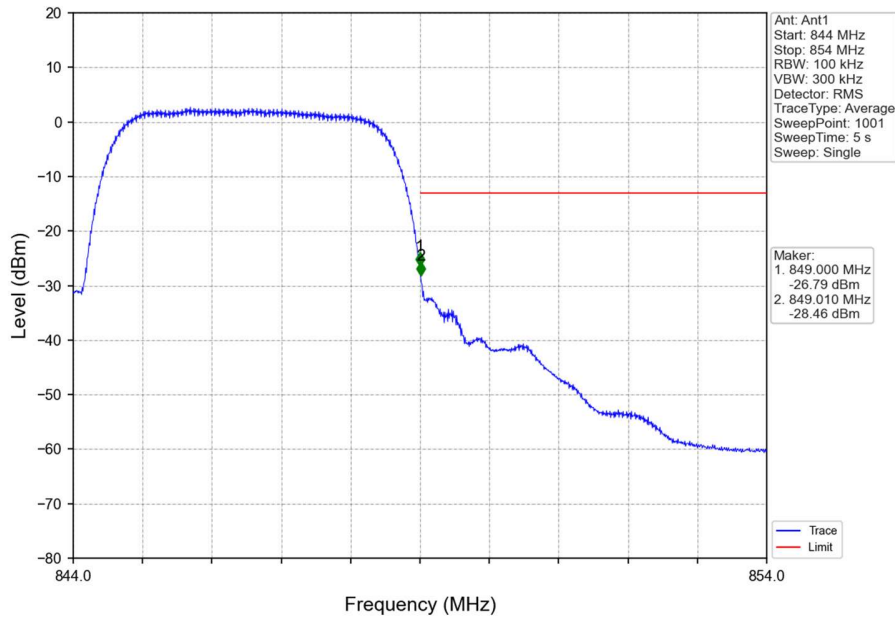
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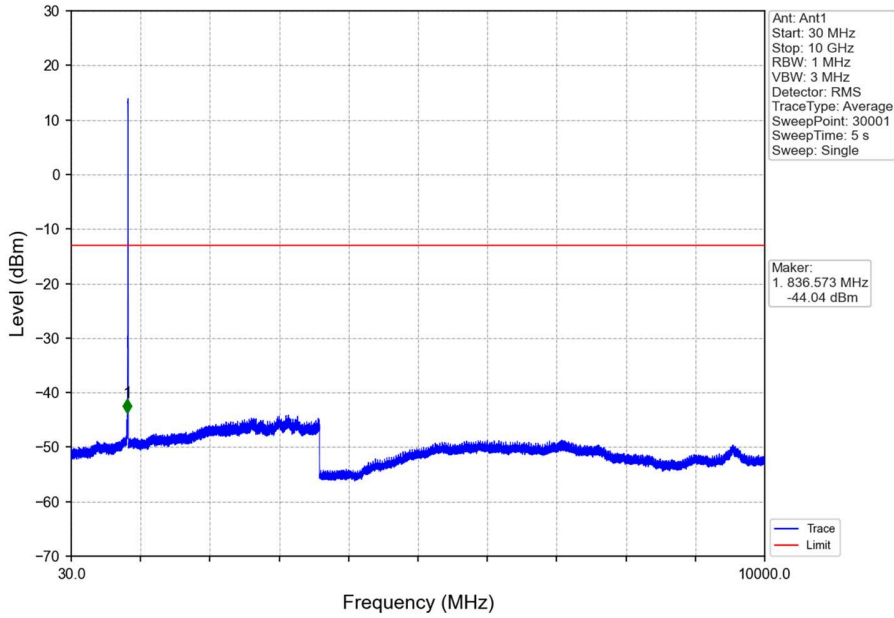
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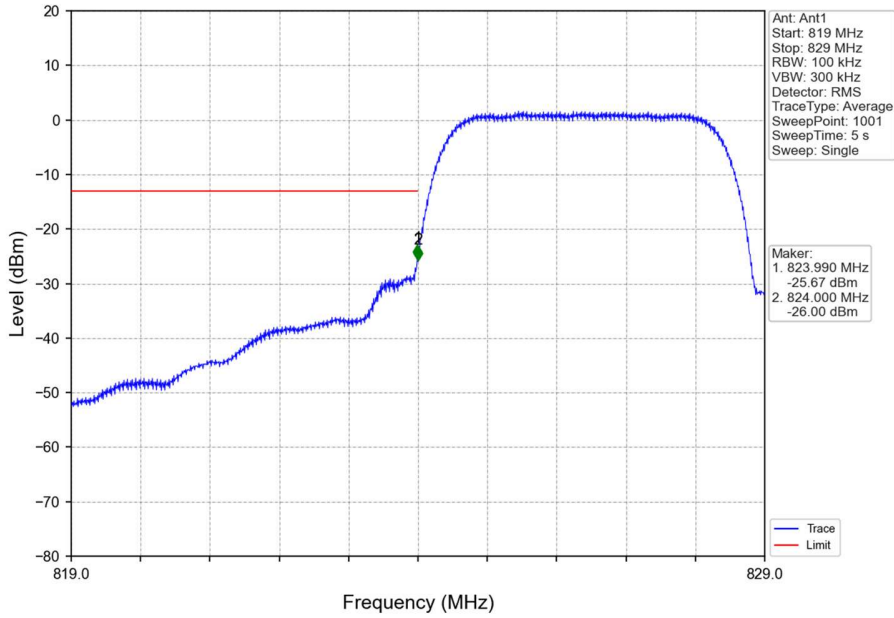
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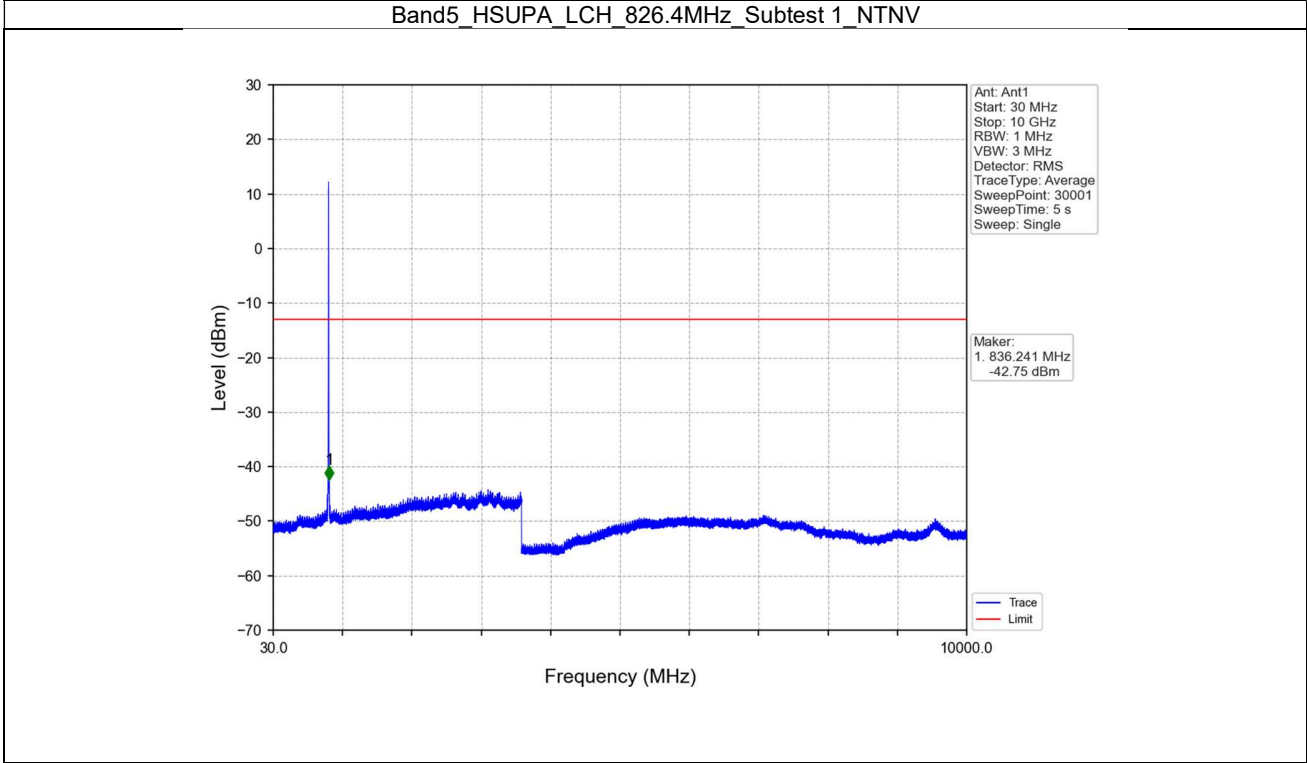
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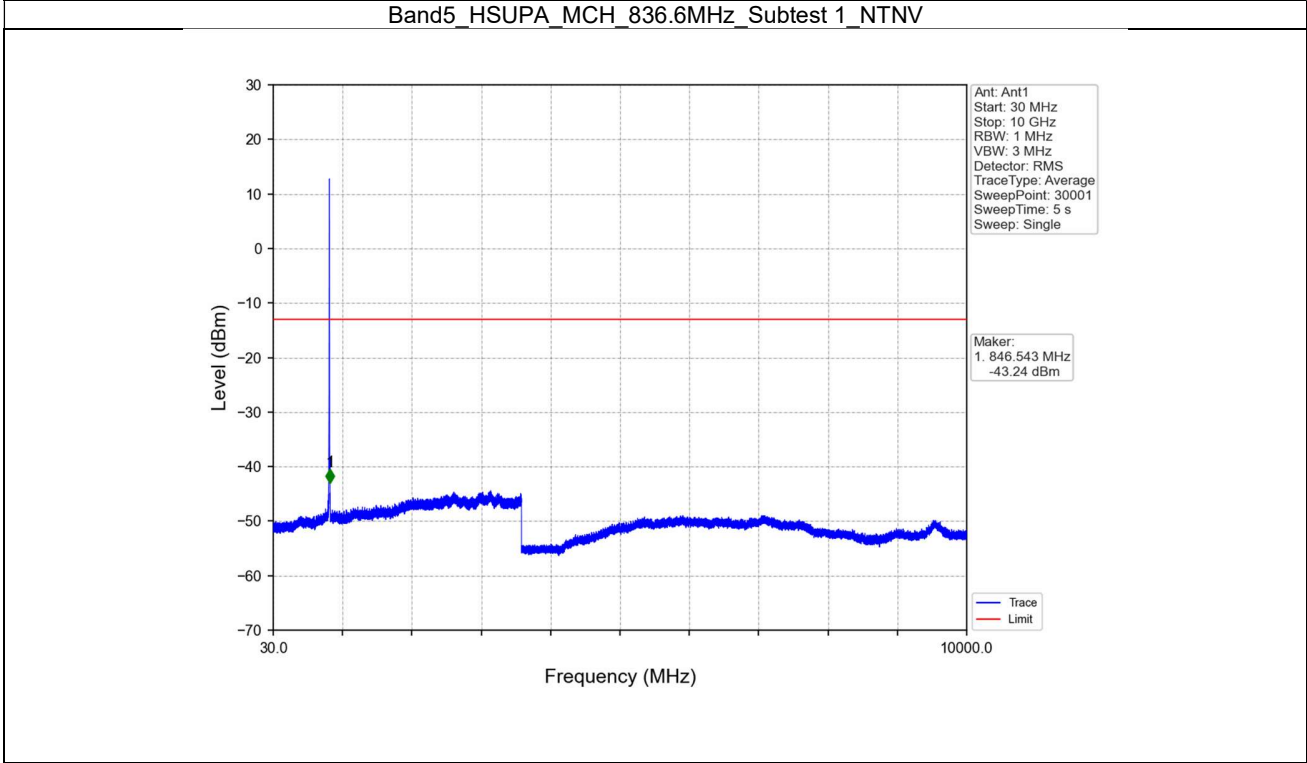
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Band5\_HSUPA\_MCH\_836.6MHz\_Subtest 1\_NTNV



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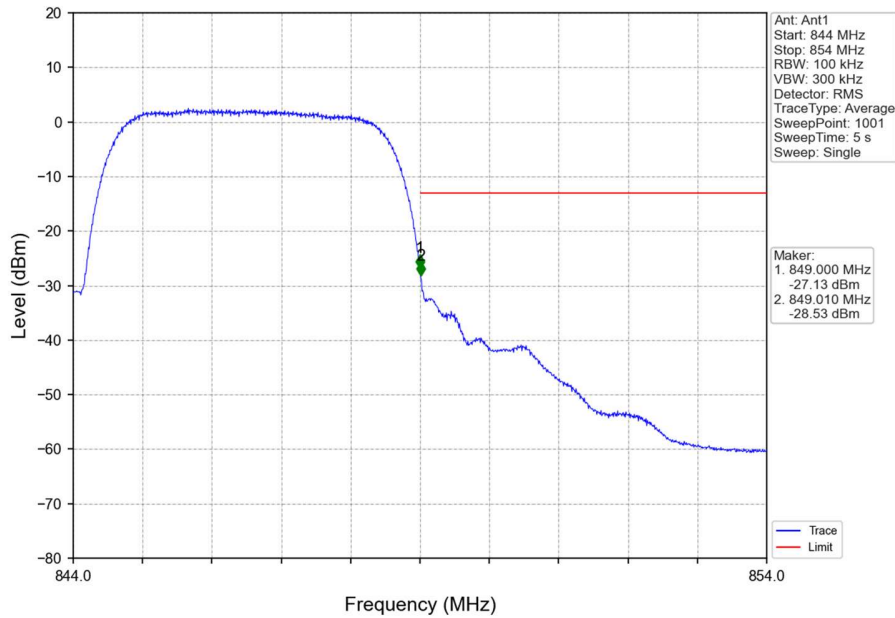
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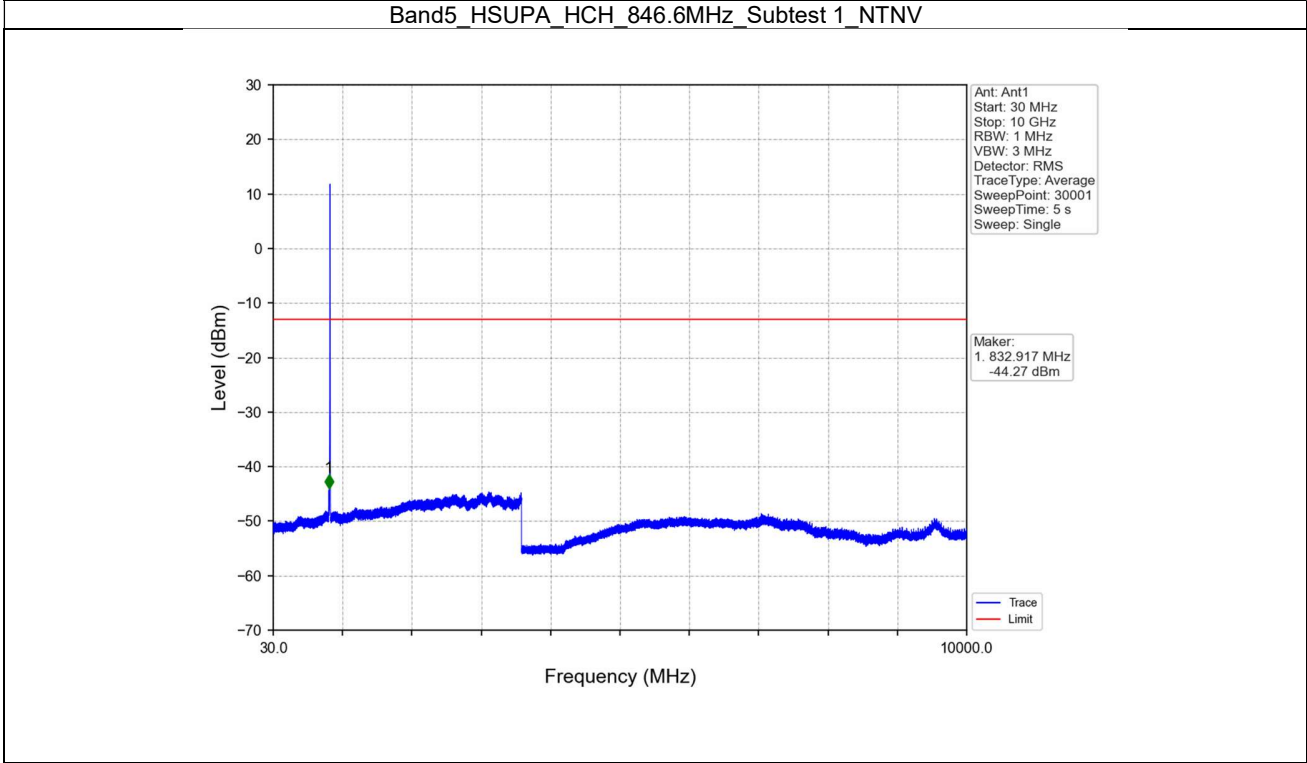
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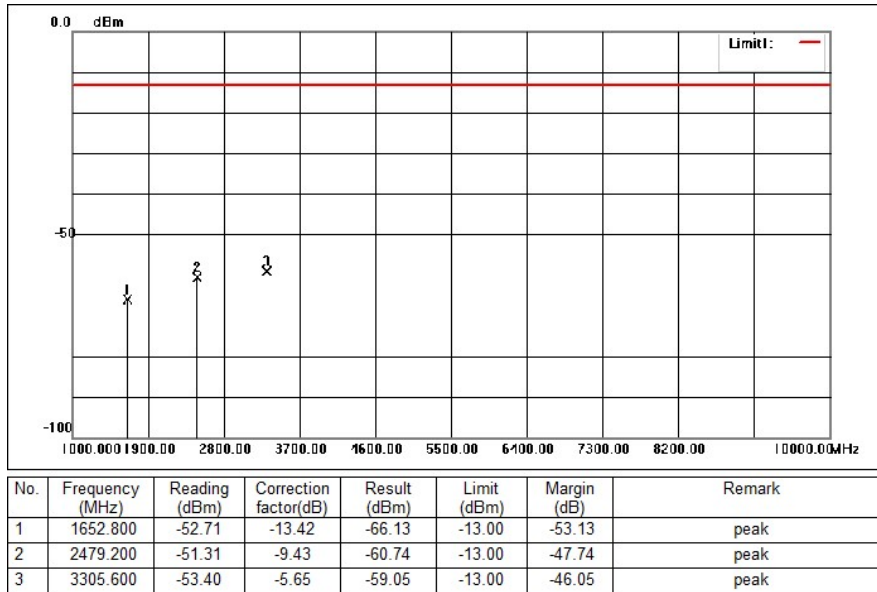
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## 7. Field Strength of Spurious Radiation

Up Antenna

WCDMA Band V-Low channel

Polarization: H



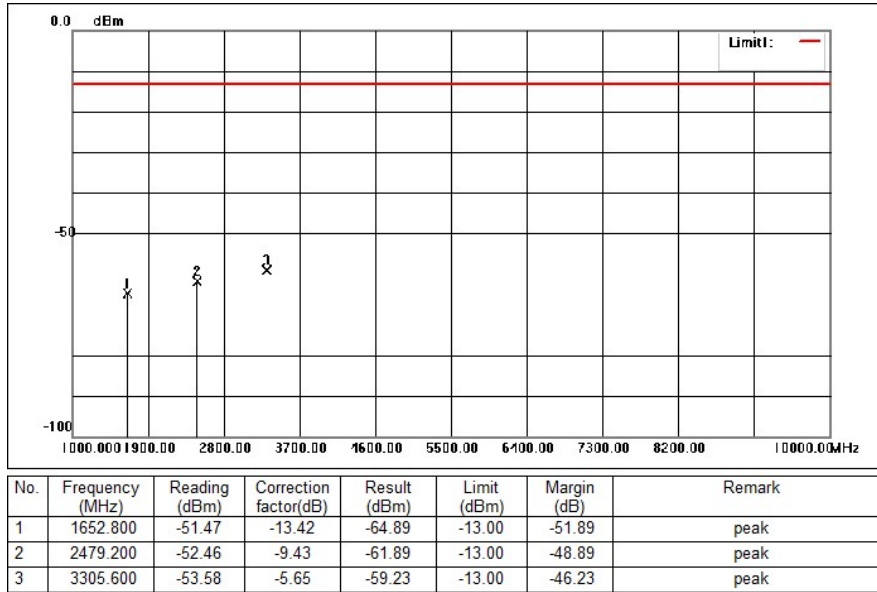
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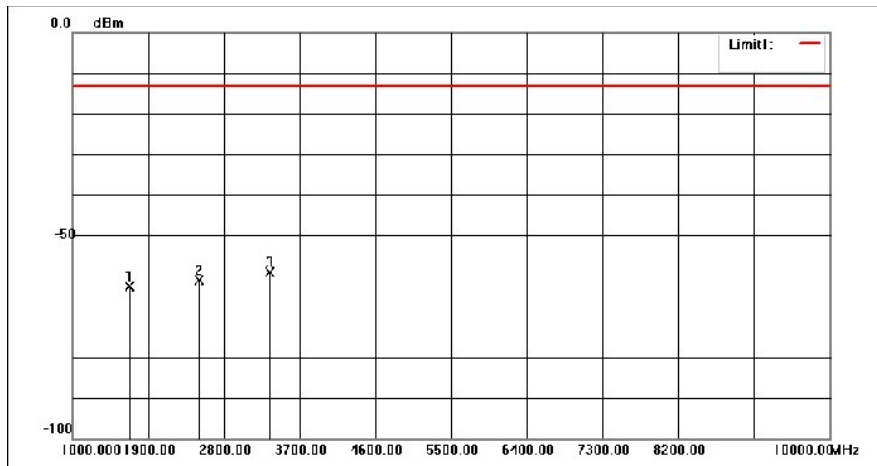
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WCDMA Band V-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-49.09	-13.58	-62.67	-13.00	-49.67	peak
2	2509.800	-51.98	-9.26	-61.24	-13.00	-48.24	peak
3	3346.400	-53.54	-5.51	-59.05	-13.00	-46.05	peak

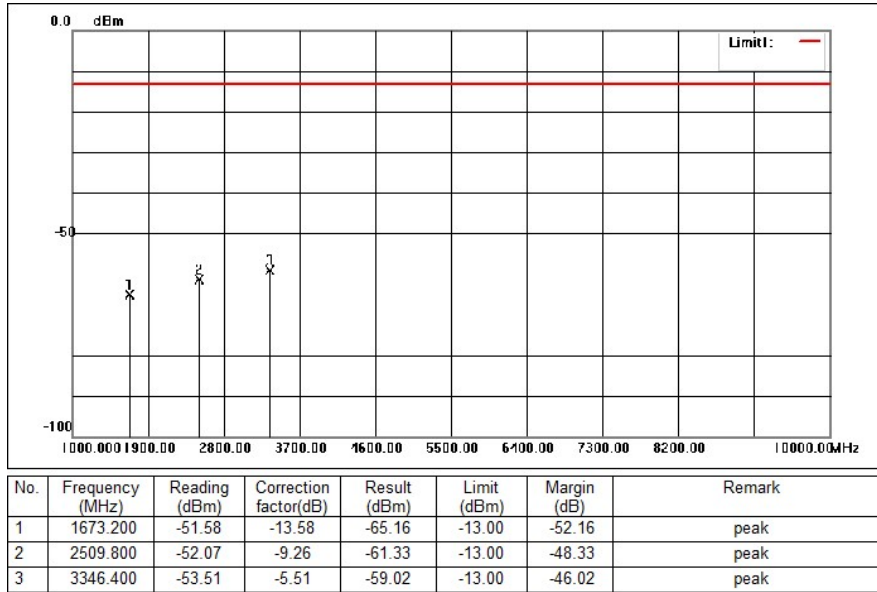


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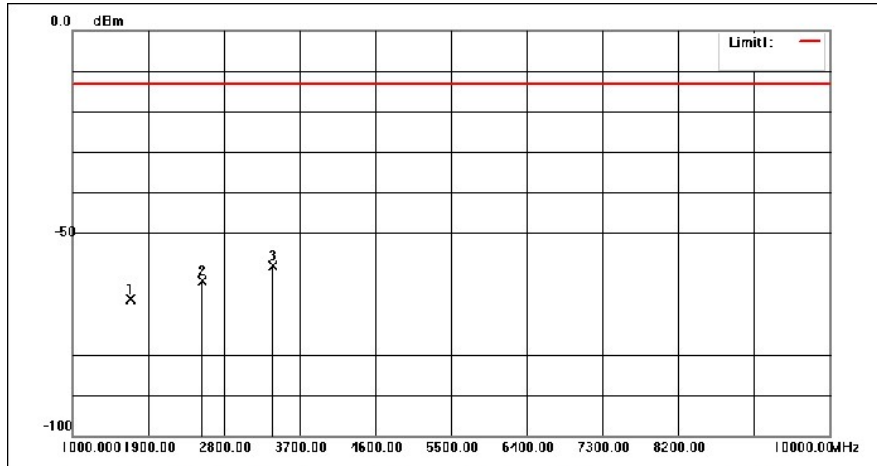
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WCDMA Band V-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-52.66	-13.73	-66.39	-13.00	-53.39	peak
2	2539.800	-52.62	-9.13	-61.75	-13.00	-48.75	peak
3	3386.400	-52.70	-5.37	-58.07	-13.00	-45.07	peak

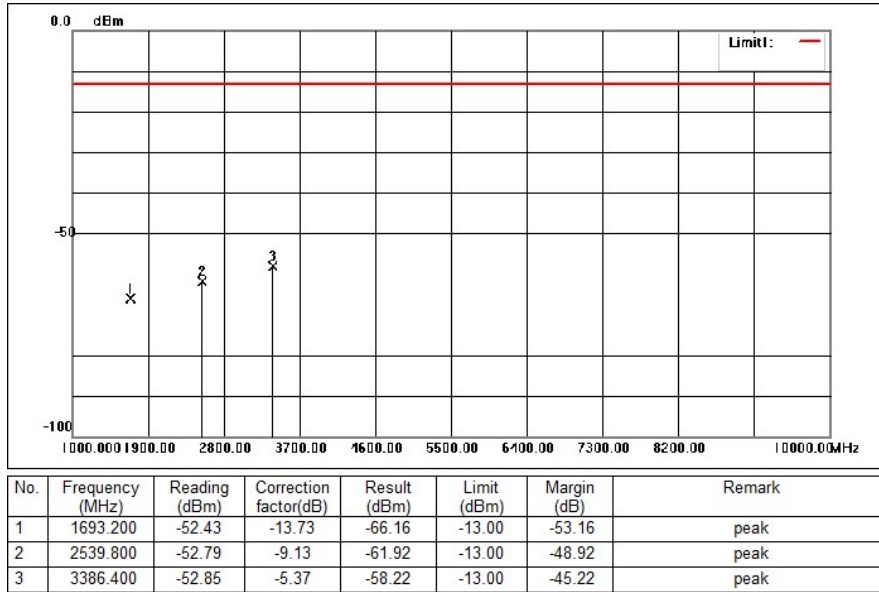


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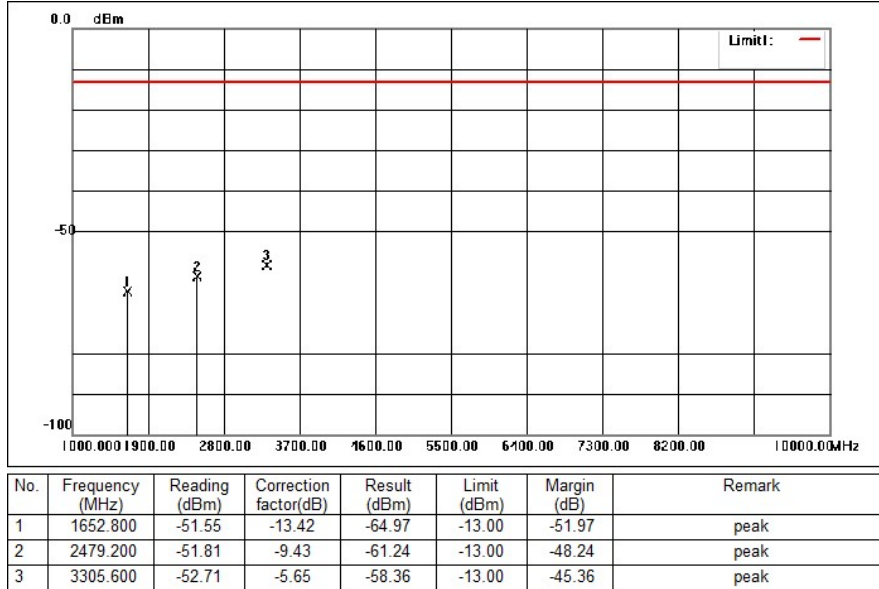
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Down Antenna  
WCDMA Band V-Low channel  
Polarization: H



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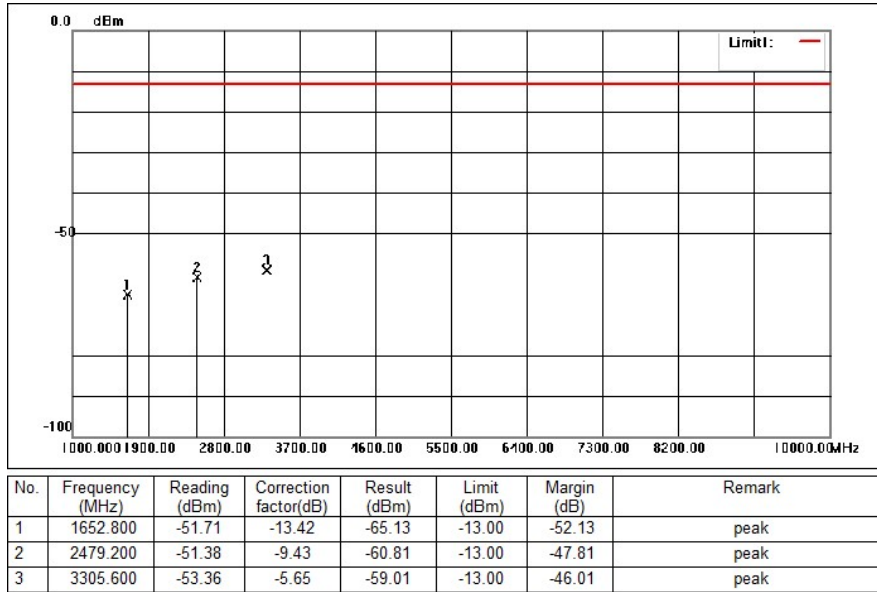
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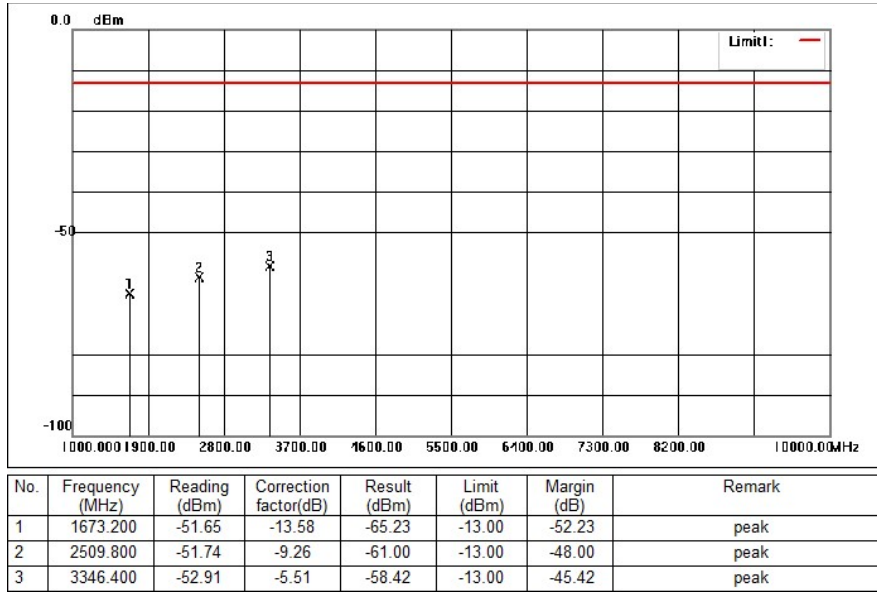
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WCDMA Band V-Middle channel

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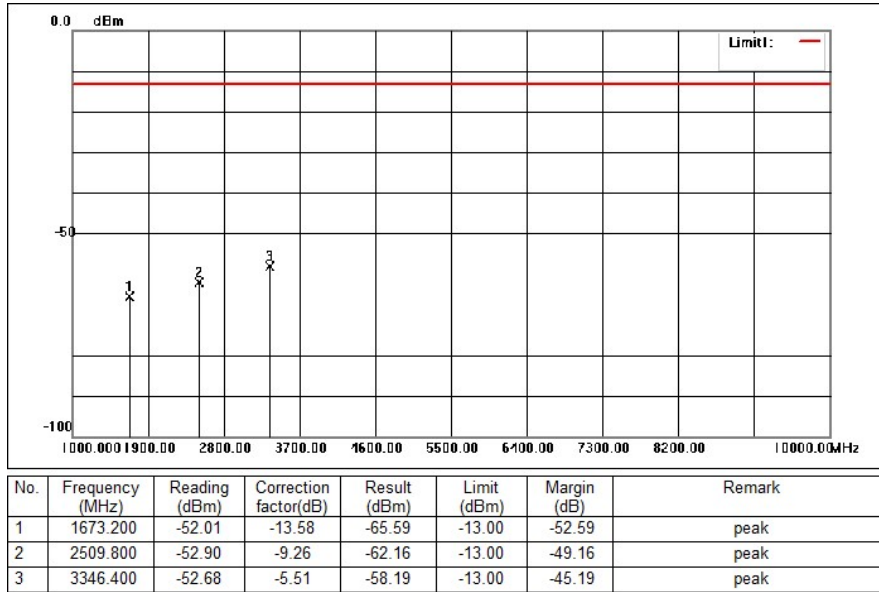
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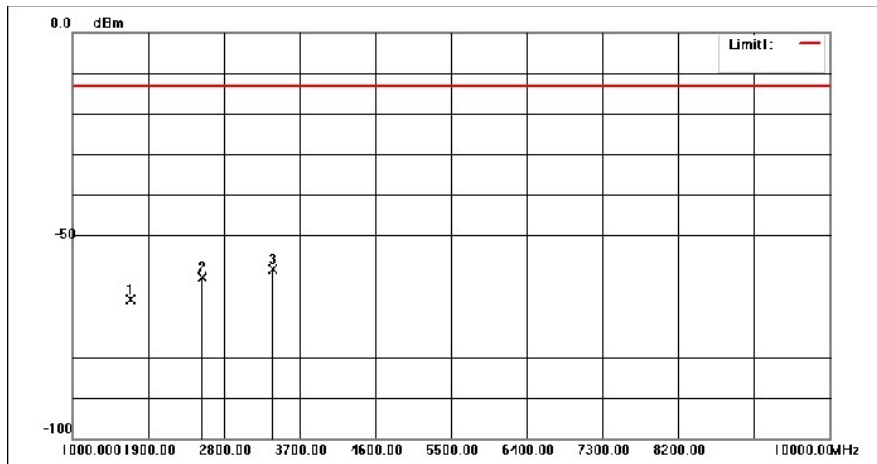
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WCDMA Band V-High channel  
Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1693.200	-52.21	-13.73	-65.94	-13.00	-52.94	peak
2	2539.800	-51.34	-9.13	-60.47	-13.00	-47.47	peak
3	3386.400	-52.98	-5.37	-58.35	-13.00	-45.35	peak

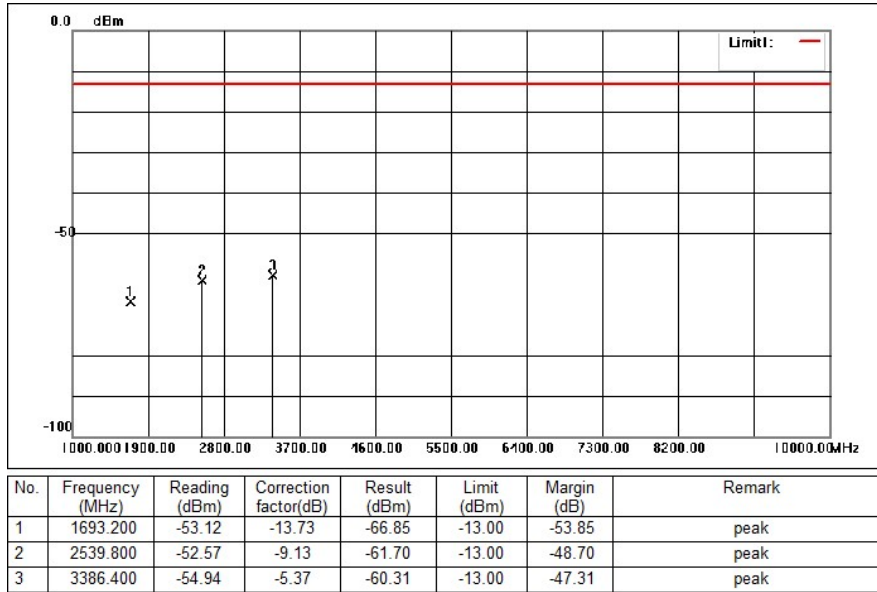


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Polarization: V



Remark1: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.

Remark2: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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