

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band2\_EIRP

### 1.1.1 Test Result

Band: 2											
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	1852.4	20.97	0.37	21.34	<=33.01	Pass			
			1880	21.15	0.37	21.52	<=33.01	Pass			
			1907.6	21.34	0.37	21.71	<=33.01	Pass			
	HSDPA		Subtest 1	1852.4	18.70	0.37	19.07	<=33.01	Pass		
			Subtest 2	1852.4	18.74	0.37	19.11	<=33.01	Pass		
			Subtest 3	1852.4	18.69	0.37	19.06	<=33.01	Pass		
			Subtest 4	1852.4	18.72	0.37	19.09	<=33.01	Pass		
			Subtest 1	1880	18.86	0.37	19.23	<=33.01	Pass		
			Subtest 2	1880	18.85	0.37	19.22	<=33.01	Pass		
			Subtest 3	1880	18.86	0.37	19.23	<=33.01	Pass		
			Subtest 4	1880	18.86	0.37	19.23	<=33.01	Pass		
			Subtest 1	1907.6	19.05	0.37	19.42	<=33.01	Pass		
			Subtest 2	1907.6	19.03	0.37	19.40	<=33.01	Pass		
			Subtest 3	1907.6	19.05	0.37	19.42	<=33.01	Pass		
			Subtest 4	1907.6	19.04	0.37	19.41	<=33.01	Pass		
			HSUPA		Subtest 1	1852.4	16.71	0.37	17.08	<=33.01	Pass
					Subtest 2	1852.4	16.47	0.37	16.84	<=33.01	Pass
					Subtest 3	1852.4	16.46	0.37	16.83	<=33.01	Pass
					Subtest 4	1852.4	16.70	0.37	17.07	<=33.01	Pass
					Subtest 5	1852.4	16.18	0.37	16.55	<=33.01	Pass
	Subtest 1	1880			16.62	0.37	16.99	<=33.01	Pass		
	Subtest 2	1880			16.64	0.37	17.01	<=33.01	Pass		
	Subtest 3	1880			16.84	0.37	17.21	<=33.01	Pass		
	Subtest 4	1880			16.64	0.37	17.01	<=33.01	Pass		
	Subtest 5	1880			16.38	0.37	16.75	<=33.01	Pass		
	Subtest 1	1907.6			17.09	0.37	17.46	<=33.01	Pass		
	Subtest 2	1907.6			16.86	0.37	17.23	<=33.01	Pass		
	Subtest 3	1907.6			16.86	0.37	17.23	<=33.01	Pass		
	Subtest 4	1907.6			17.11	0.37	17.48	<=33.01	Pass		
	Subtest 5	1907.6			16.57	0.37	16.94	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

## 2.1 Band2

### 2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.7	-1.967	-0.0011	-2.5 to 2.5	Pass
			4.35	-1.073	-0.0006	-2.5 to 2.5	Pass
			5	-0.715	-0.0004	-2.5 to 2.5	Pass
		-30	4.35	-1.431	-0.0008	-2.5 to 2.5	Pass
		-20	4.35	-1.974	-0.0011	-2.5 to 2.5	Pass
		-10	4.35	-0.622	-0.0003	-2.5 to 2.5	Pass
		0	4.35	-0.858	-0.0005	-2.5 to 2.5	Pass
		10	4.35	-0.844	-0.0005	-2.5 to 2.5	Pass
		30	4.35	-0.544	-0.0003	-2.5 to 2.5	Pass
		40	4.35	-1.266	-0.0007	-2.5 to 2.5	Pass
	50	4.35	-0.565	-0.0003	-2.5 to 2.5	Pass	
	1880	20	3.7	0.021	0.0000	-2.5 to 2.5	Pass
			4.35	0.343	0.0002	-2.5 to 2.5	Pass
			5	0.157	0.0001	-2.5 to 2.5	Pass
		-30	4.35	0.272	0.0001	-2.5 to 2.5	Pass
		-20	4.35	0.780	0.0004	-2.5 to 2.5	Pass
		-10	4.35	0.293	0.0002	-2.5 to 2.5	Pass
		0	4.35	0.472	0.0003	-2.5 to 2.5	Pass
		10	4.35	-0.200	-0.0001	-2.5 to 2.5	Pass
		30	4.35	0.165	0.0001	-2.5 to 2.5	Pass
		40	4.35	0.837	0.0004	-2.5 to 2.5	Pass
	50	4.35	0.050	0.0000	-2.5 to 2.5	Pass	
	1907.6	20	3.7	-0.429	-0.0002	-2.5 to 2.5	Pass
			4.35	0.272	0.0001	-2.5 to 2.5	Pass
			5	0.887	0.0005	-2.5 to 2.5	Pass
		-30	4.35	1.502	0.0008	-2.5 to 2.5	Pass
		-20	4.35	-0.615	-0.0003	-2.5 to 2.5	Pass
		-10	4.35	-2.182	-0.0011	-2.5 to 2.5	Pass
		0	4.35	-0.901	-0.0005	-2.5 to 2.5	Pass
		10	4.35	-0.865	-0.0005	-2.5 to 2.5	Pass
30		4.35	0.944	0.0005	-2.5 to 2.5	Pass	
40		4.35	-0.136	-0.0001	-2.5 to 2.5	Pass	
50	4.35	-1.788	-0.0009	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.7	-10.006	-0.0054	-2.5 to 2.5	Pass
			4.35	-9.949	-0.0054	-2.5 to 2.5	Pass
			5	-9.584	-0.0052	-2.5 to 2.5	Pass
		-30	4.35	-9.041	-0.0049	-2.5 to 2.5	Pass
		-20	4.35	-9.520	-0.0051	-2.5 to 2.5	Pass
		-10	4.35	-8.612	-0.0046	-2.5 to 2.5	Pass
		0	4.35	-8.633	-0.0047	-2.5 to 2.5	Pass
		10	4.35	-8.919	-0.0048	-2.5 to 2.5	Pass
		30	4.35	-9.434	-0.0051	-2.5 to 2.5	Pass
		40	4.35	-9.577	-0.0052	-2.5 to 2.5	Pass
	50	4.35	-10.099	-0.0055	-2.5 to 2.5	Pass	
	1880	20	3.7	-7.753	-0.0041	-2.5 to 2.5	Pass
			4.35	-8.426	-0.0045	-2.5 to 2.5	Pass
5			-7.932	-0.0042	-2.5 to 2.5	Pass	

		-30	4.35	-6.652	-0.0035	-2.5 to 2.5	Pass	
		-20	4.35	-8.547	-0.0045	-2.5 to 2.5	Pass	
		-10	4.35	-8.619	-0.0046	-2.5 to 2.5	Pass	
		0	4.35	-7.267	-0.0039	-2.5 to 2.5	Pass	
		10	4.35	-8.311	-0.0044	-2.5 to 2.5	Pass	
		30	4.35	-8.411	-0.0045	-2.5 to 2.5	Pass	
		40	4.35	-6.852	-0.0036	-2.5 to 2.5	Pass	
	50	4.35	-6.988	-0.0037	-2.5 to 2.5	Pass		
	1907.6	20	3.7	-8.047	-0.0042	-2.5 to 2.5	Pass	
			4.35	-8.218	-0.0043	-2.5 to 2.5	Pass	
			5	-8.826	-0.0046	-2.5 to 2.5	Pass	
		-30	4.35	-8.254	-0.0043	-2.5 to 2.5	Pass	
		-20	4.35	-8.962	-0.0047	-2.5 to 2.5	Pass	
		-10	4.35	-9.055	-0.0047	-2.5 to 2.5	Pass	
		0	4.35	-9.692	-0.0051	-2.5 to 2.5	Pass	
		10	4.35	-8.075	-0.0042	-2.5 to 2.5	Pass	
		30	4.35	-8.433	-0.0044	-2.5 to 2.5	Pass	
		40	4.35	-7.703	-0.0040	-2.5 to 2.5	Pass	
		50	4.35	-8.569	-0.0045	-2.5 to 2.5	Pass	
HSUPA		1852.4	20	3.7	3.805	0.0021	-2.5 to 2.5	Pass
	4.35			-0.679	-0.0004	-2.5 to 2.5	Pass	
	5			9.520	0.0051	-2.5 to 2.5	Pass	
	-30		4.35	4.385	0.0024	-2.5 to 2.5	Pass	
	-20		4.35	0.901	0.0005	-2.5 to 2.5	Pass	
	-10		4.35	5.686	0.0031	-2.5 to 2.5	Pass	
	0		4.35	1.709	0.0009	-2.5 to 2.5	Pass	
	10		4.35	5.200	0.0028	-2.5 to 2.5	Pass	
	30		4.35	3.977	0.0021	-2.5 to 2.5	Pass	
	40		4.35	4.642	0.0025	-2.5 to 2.5	Pass	
	50		4.35	0.637	0.0003	-2.5 to 2.5	Pass	
	1880		20	3.7	3.140	0.0017	-2.5 to 2.5	Pass
				4.35	2.618	0.0014	-2.5 to 2.5	Pass
		5		3.498	0.0019	-2.5 to 2.5	Pass	
		-30	4.35	9.227	0.0049	-2.5 to 2.5	Pass	
		-20	4.35	6.852	0.0036	-2.5 to 2.5	Pass	
		-10	4.35	-1.760	-0.0009	-2.5 to 2.5	Pass	
		0	4.35	3.927	0.0021	-2.5 to 2.5	Pass	
		10	4.35	2.260	0.0012	-2.5 to 2.5	Pass	
		30	4.35	4.134	0.0022	-2.5 to 2.5	Pass	
		40	4.35	8.533	0.0045	-2.5 to 2.5	Pass	
		50	4.35	5.844	0.0031	-2.5 to 2.5	Pass	
		1907.6	20	3.7	4.613	0.0024	-2.5 to 2.5	Pass
	4.35			6.602	0.0035	-2.5 to 2.5	Pass	
	5			1.795	0.0009	-2.5 to 2.5	Pass	
	-30		4.35	4.864	0.0025	-2.5 to 2.5	Pass	
	-20		4.35	5.865	0.0031	-2.5 to 2.5	Pass	
	-10		4.35	7.503	0.0039	-2.5 to 2.5	Pass	
0	4.35		1.867	0.0010	-2.5 to 2.5	Pass		
10	4.35		0.465	0.0002	-2.5 to 2.5	Pass		
30	4.35		2.782	0.0015	-2.5 to 2.5	Pass		
40	4.35		9.255	0.0049	-2.5 to 2.5	Pass		
50	4.35		1.266	0.0007	-2.5 to 2.5	Pass		

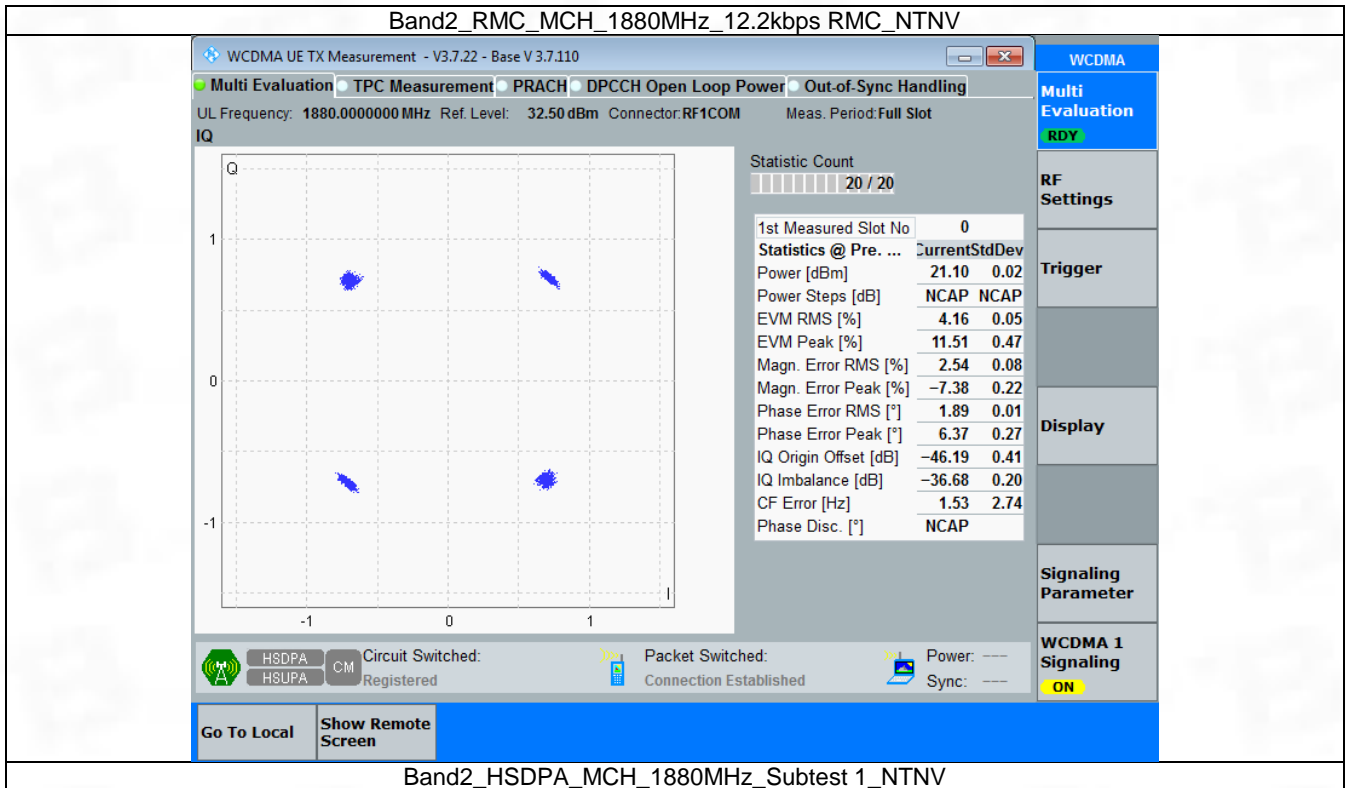
### 3. Modulation Characteristics

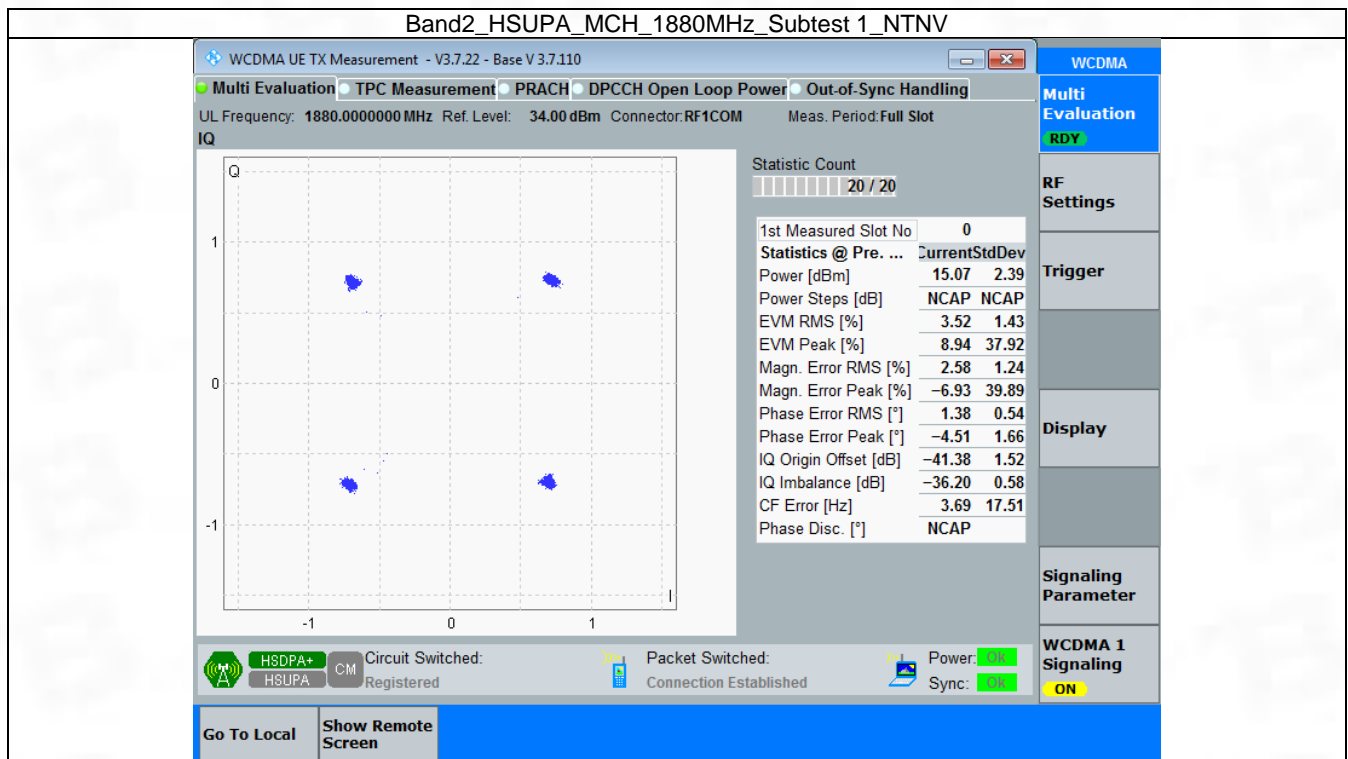
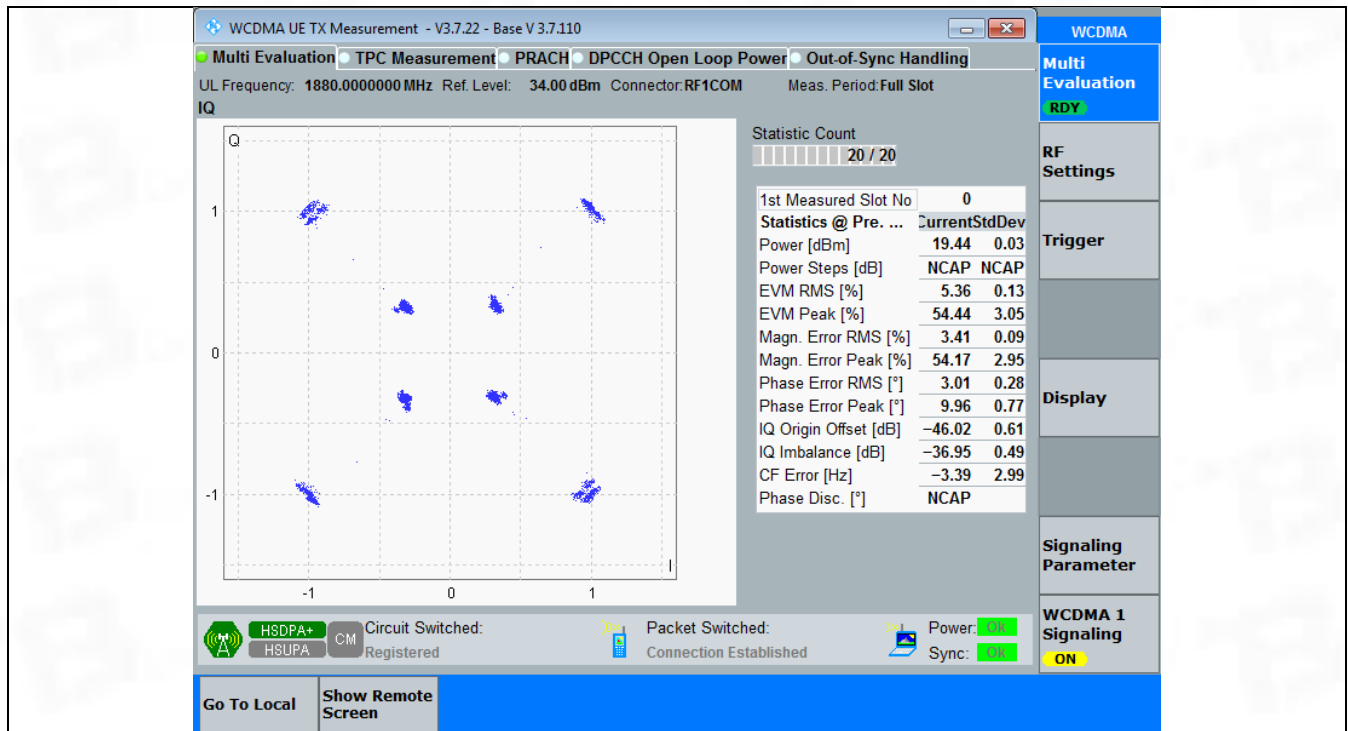
#### 3.1 Band2

##### 3.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph		Pass

##### 3.1.2 Test Graph





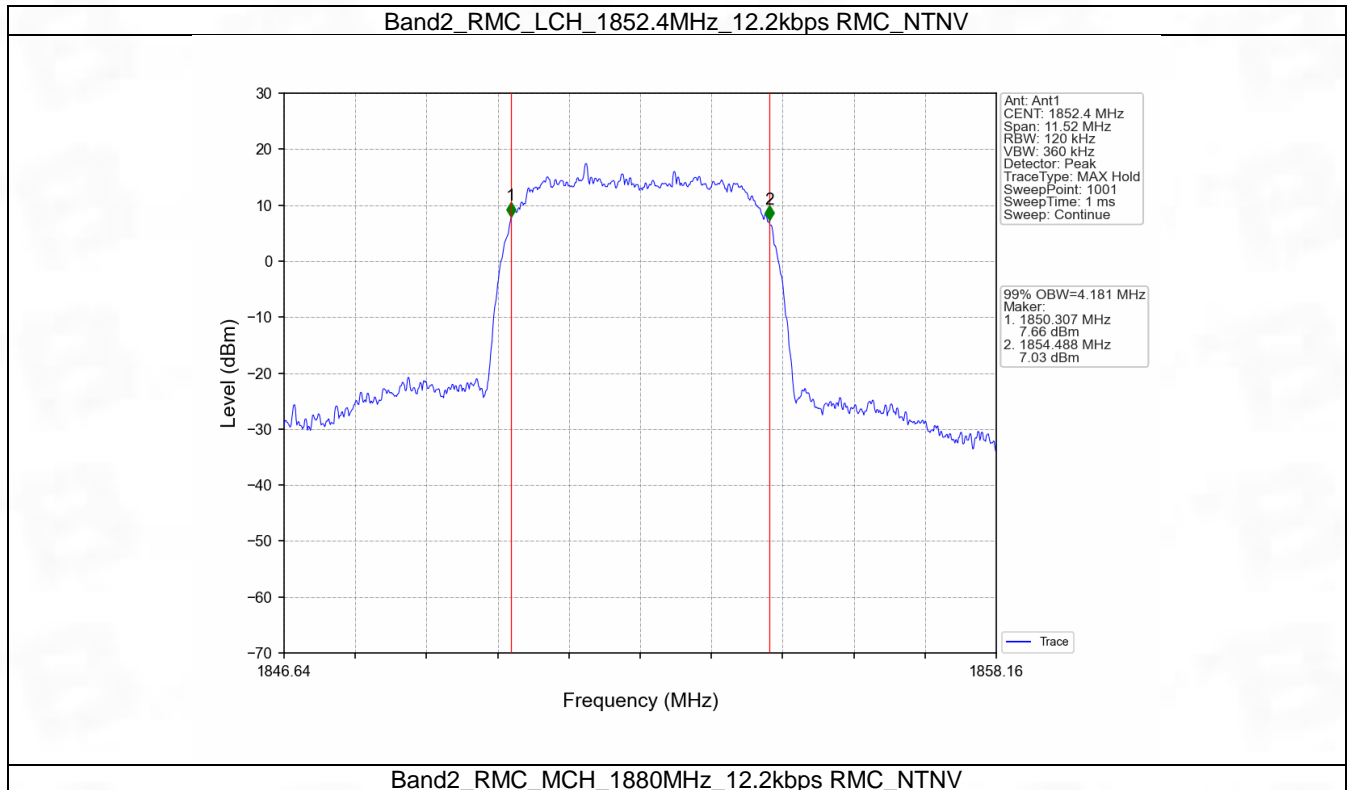
## 4. 99% & 26dB Bandwidth

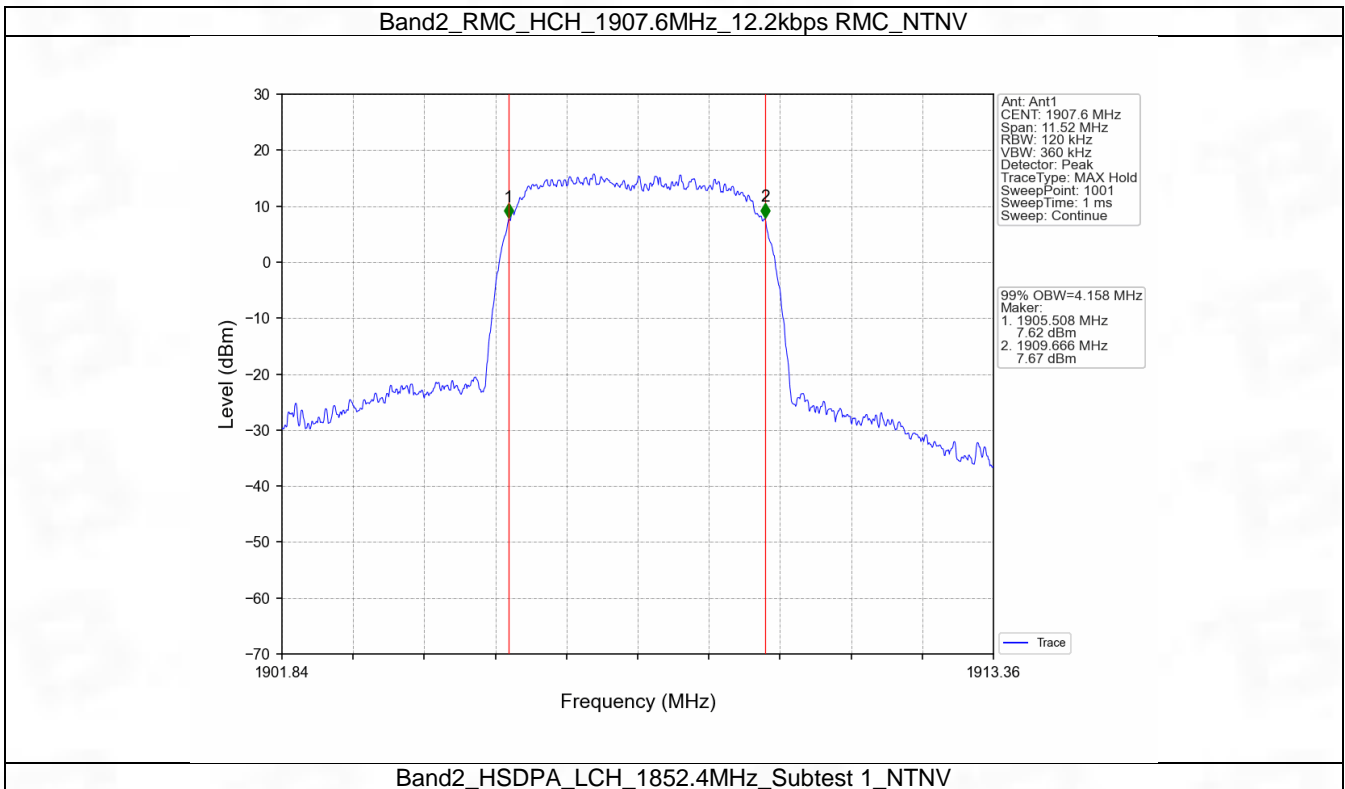
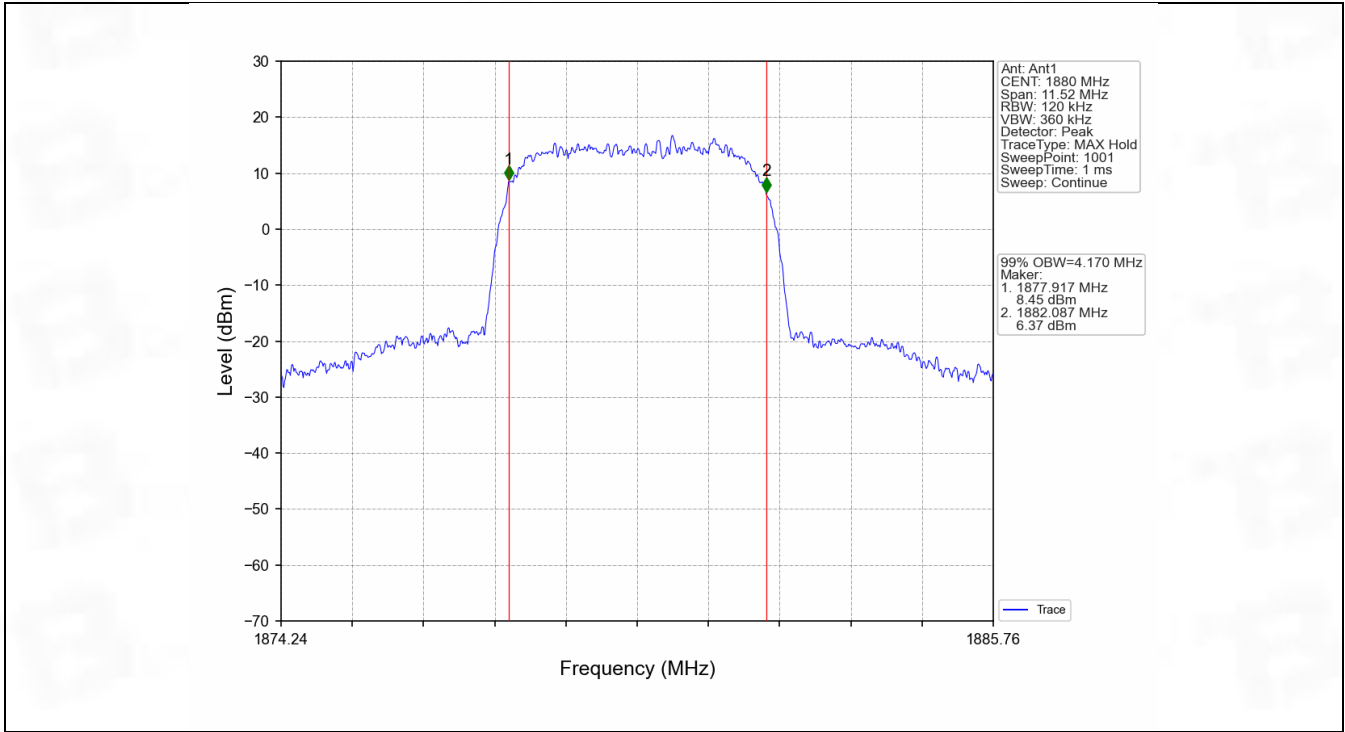
### 4.1 Band2\_OBW

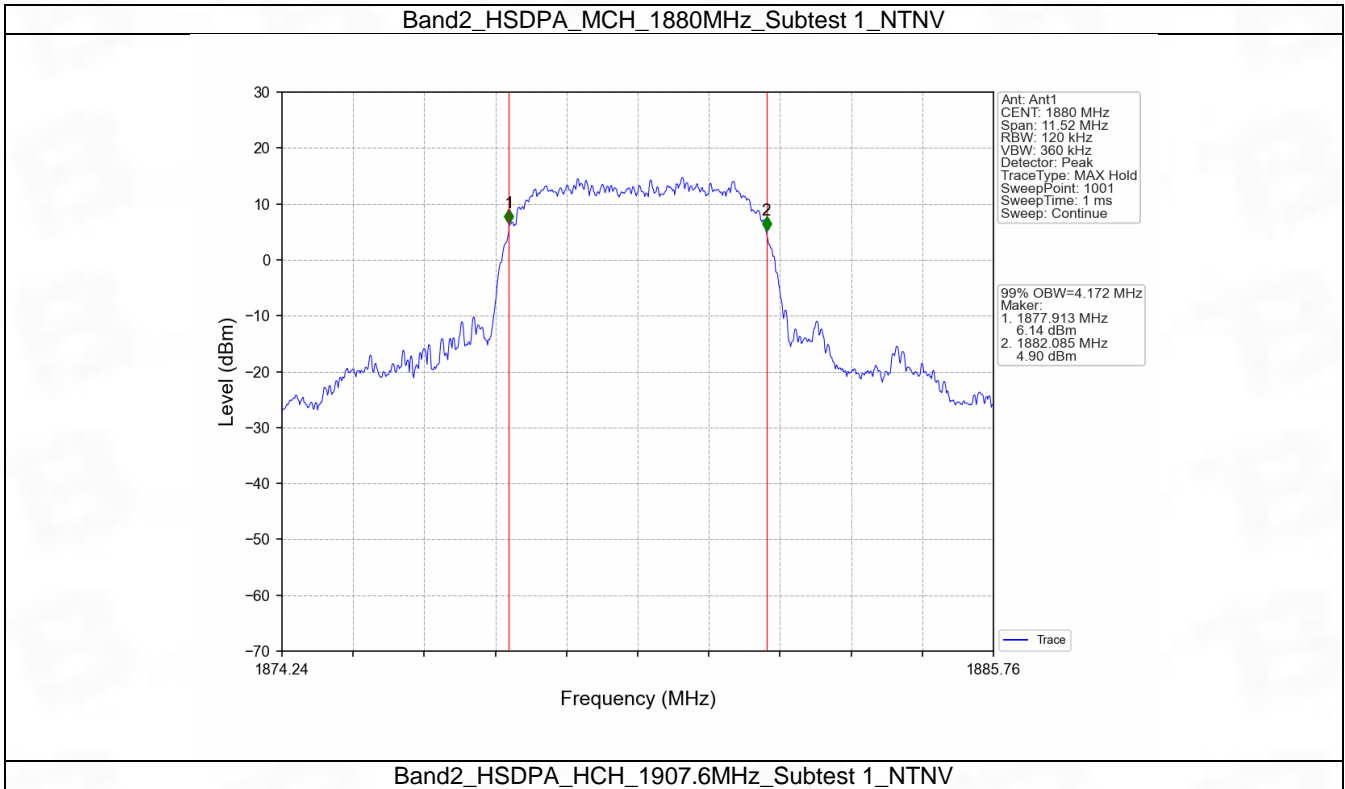
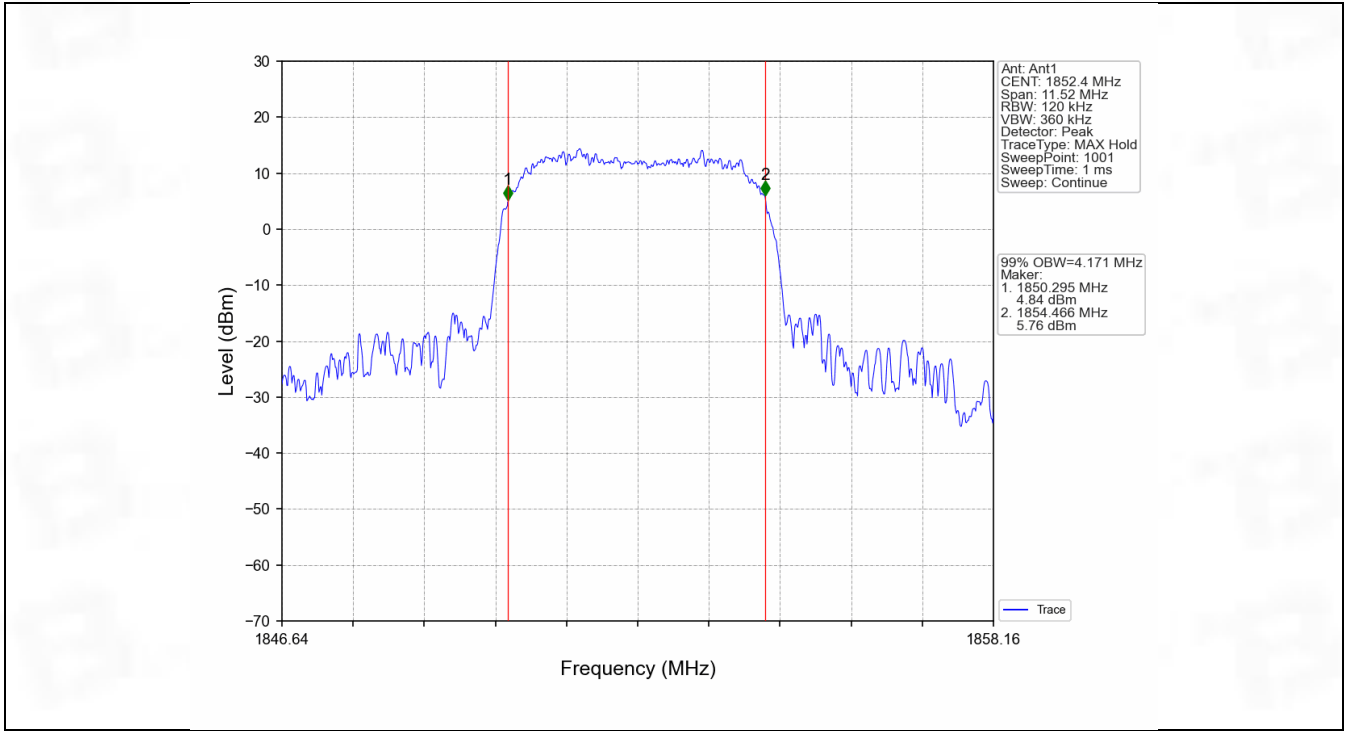
#### 4.1.1 Test Result

Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.181	Pass
			1880	4.170	Pass
			1907.6	4.158	Pass
	HSDPA	Subtest 1	1852.4	4.171	Pass
			1880	4.172	Pass
			1907.6	4.162	Pass
	HSUPA	Subtest 1	1852.4	4.178	Pass
			1880	4.176	Pass
			1907.6	4.173	Pass

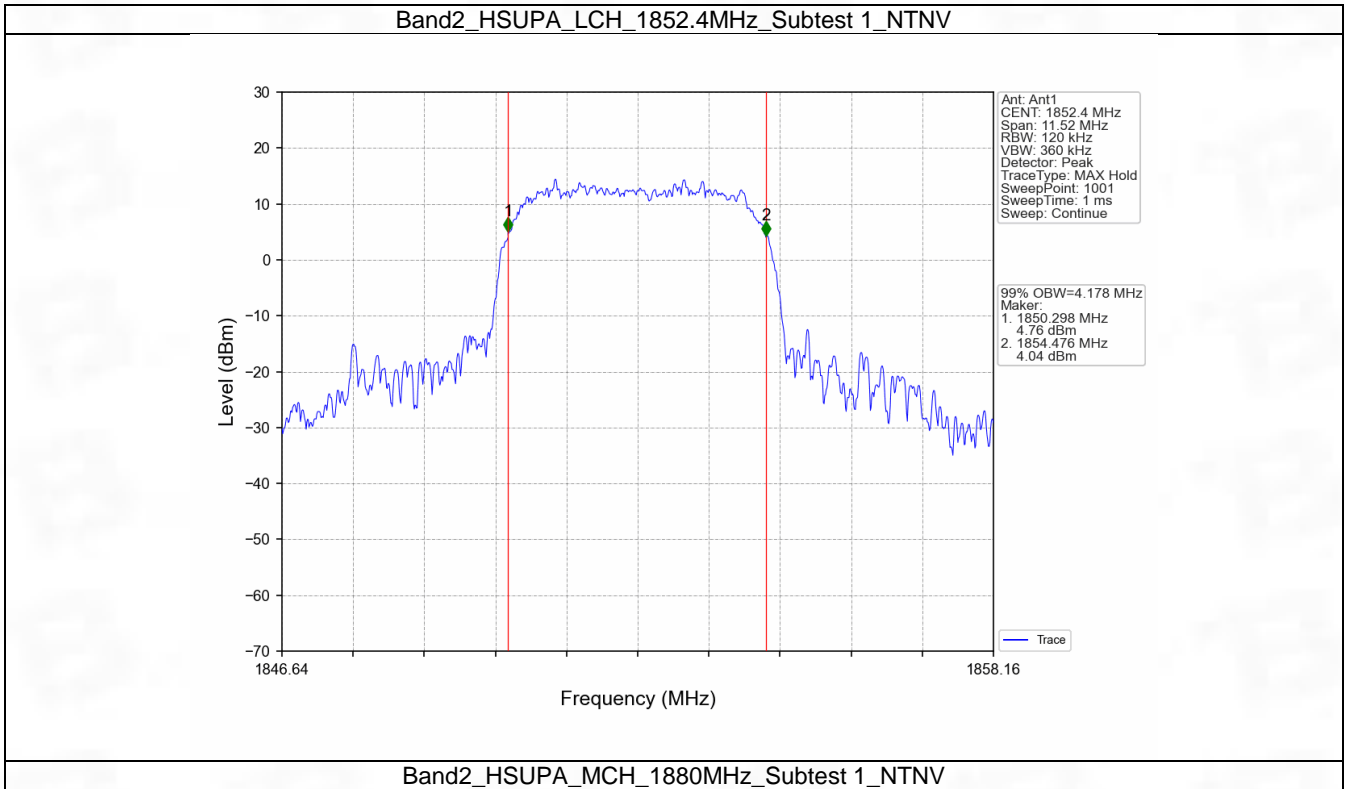
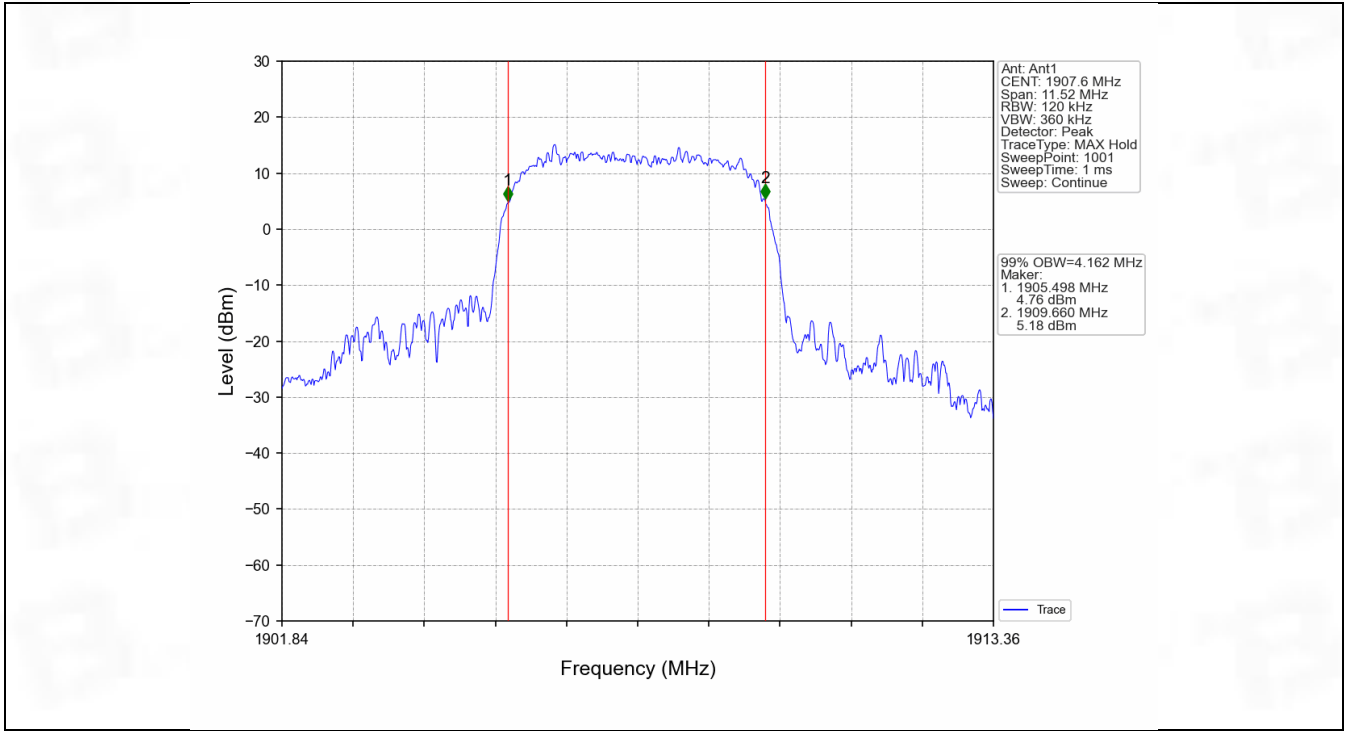
#### 4.1.2 Test Graph

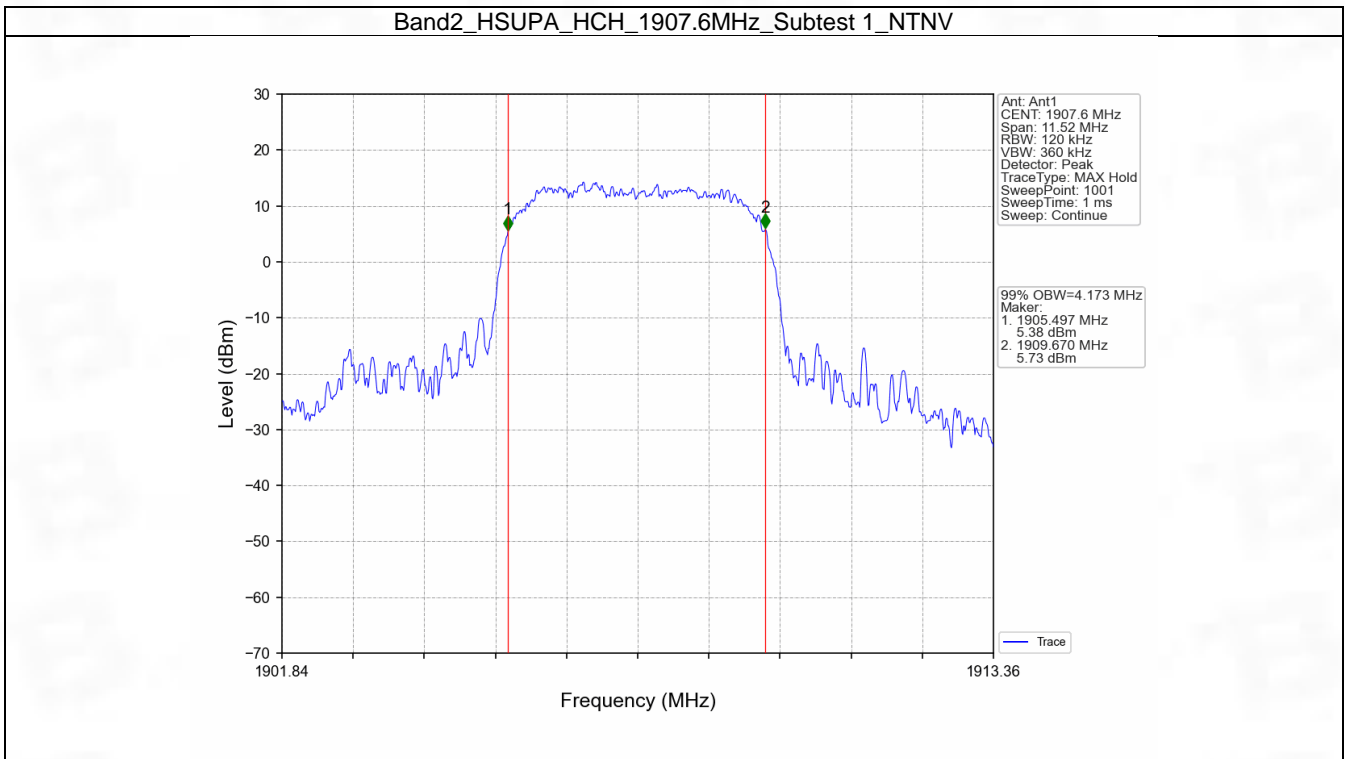
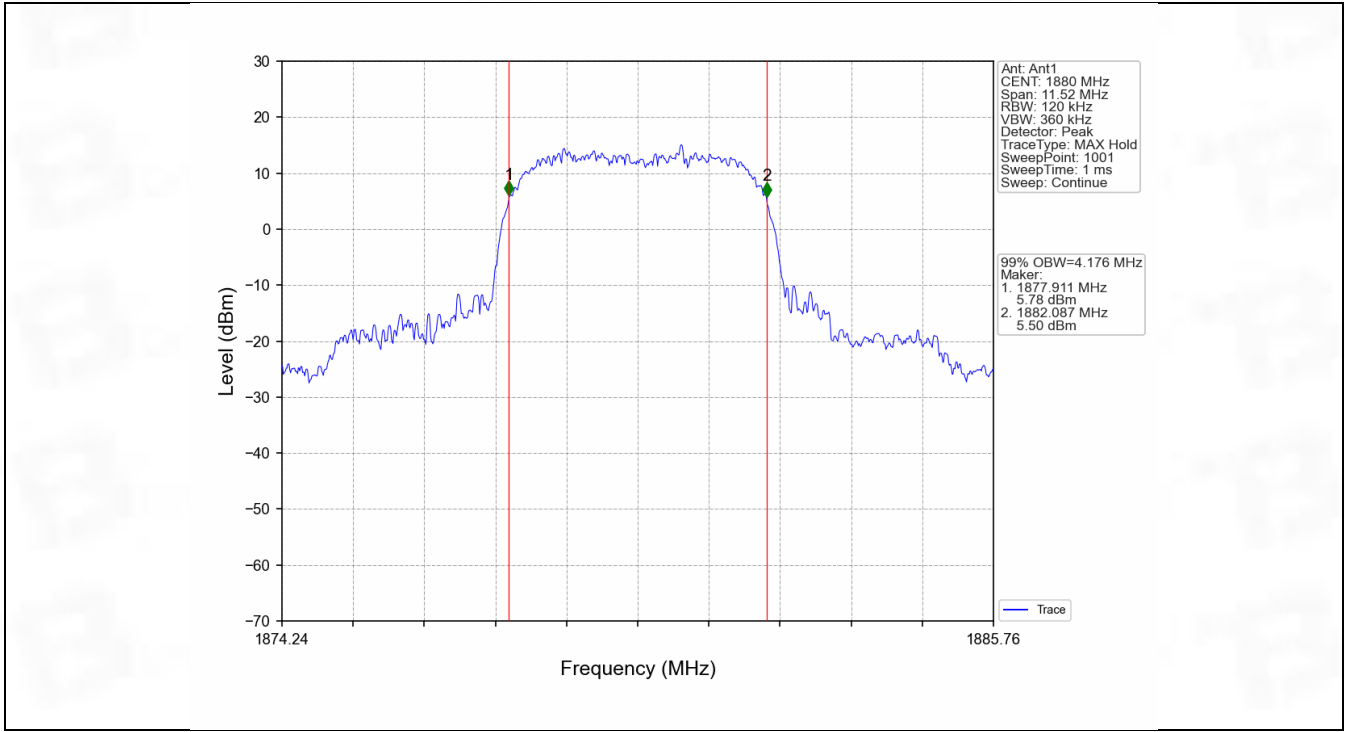










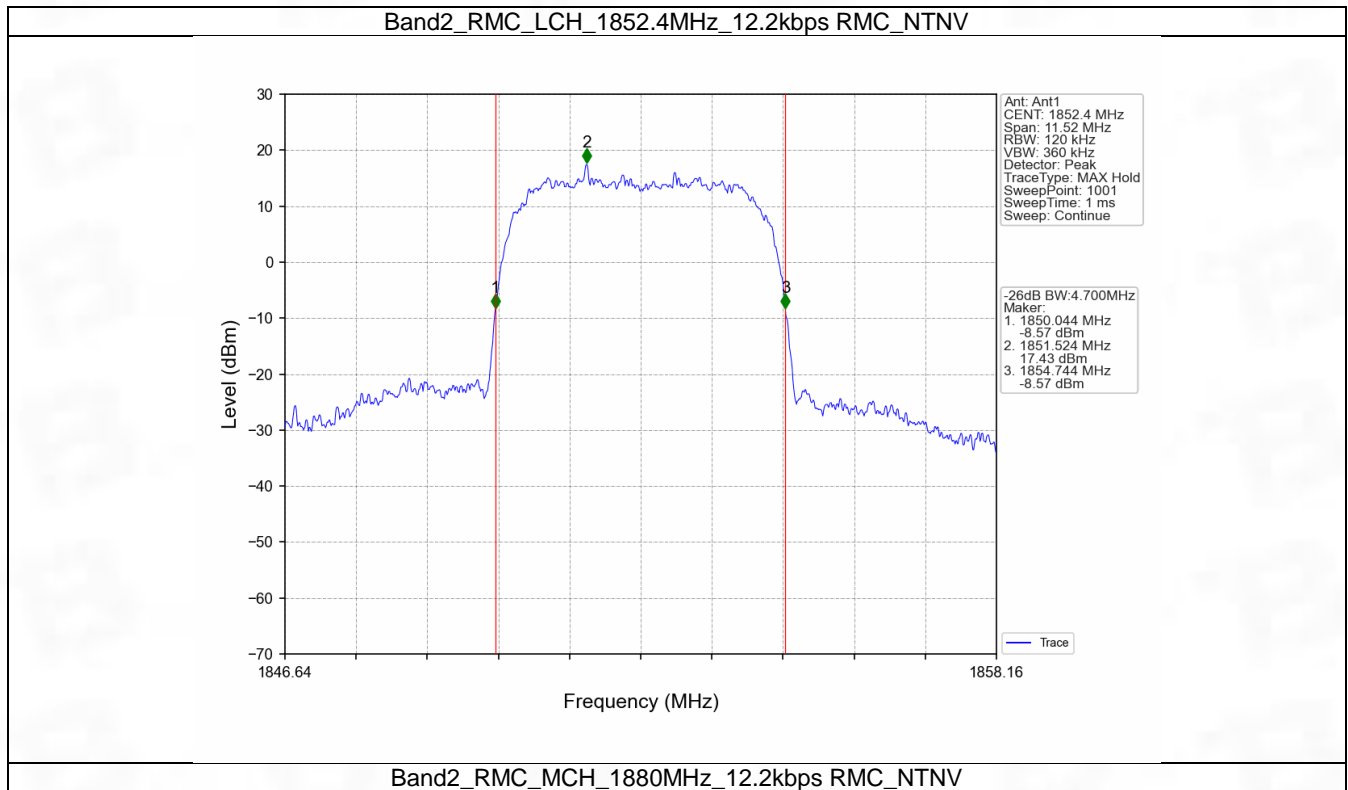


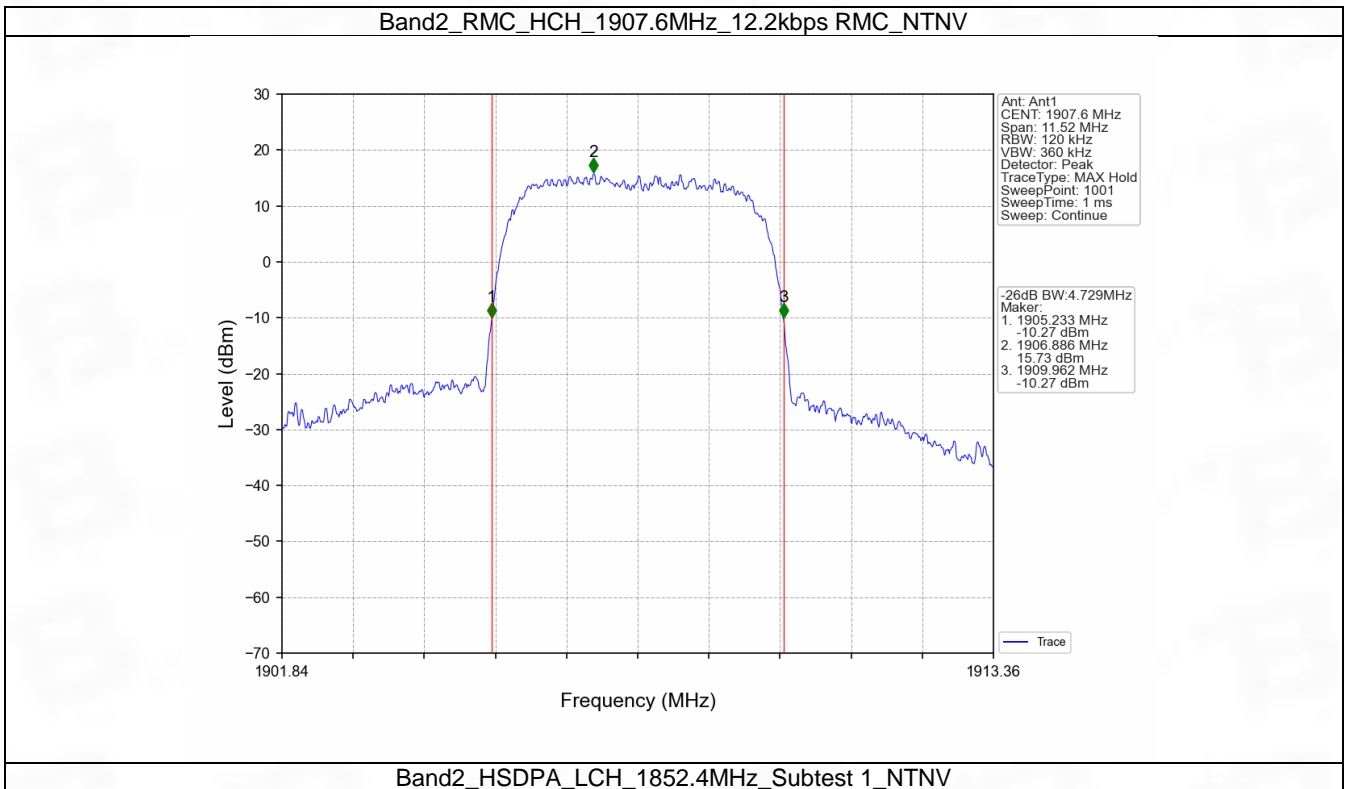
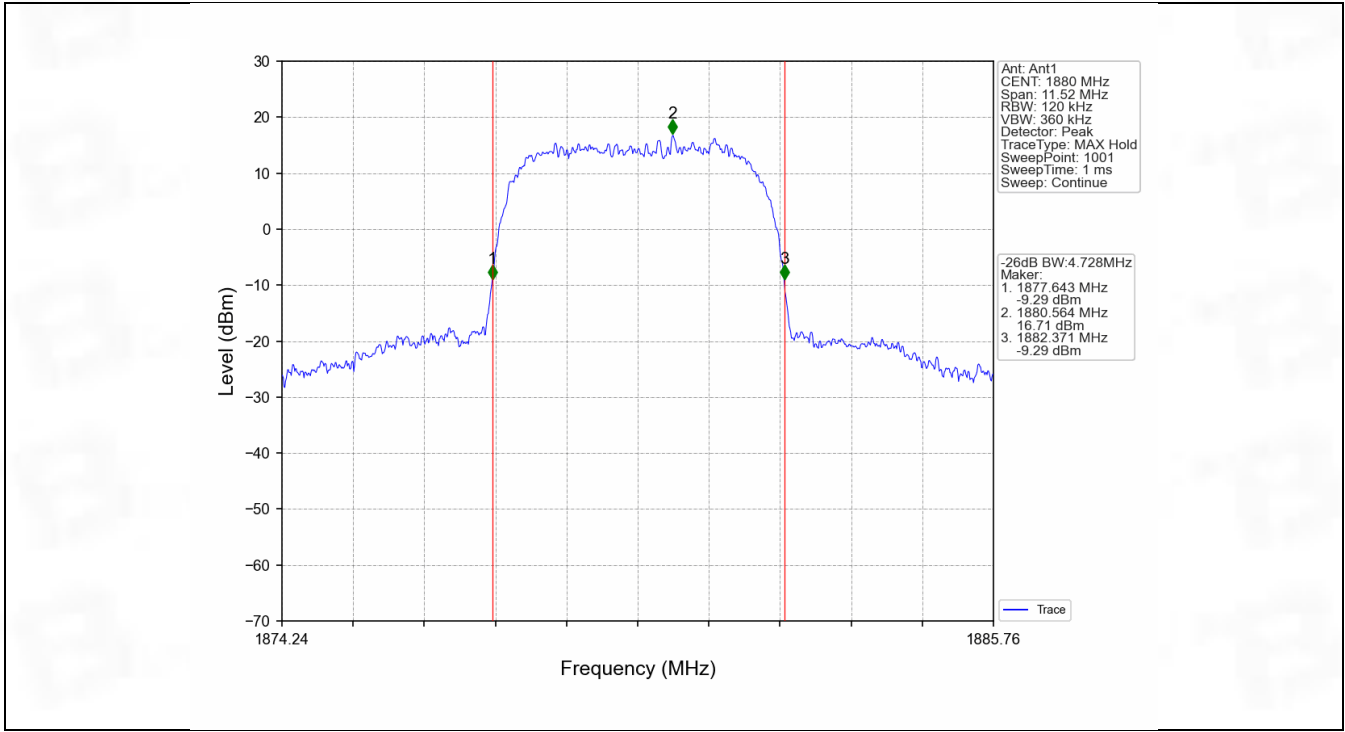
## 4.2 Band2\_XDB

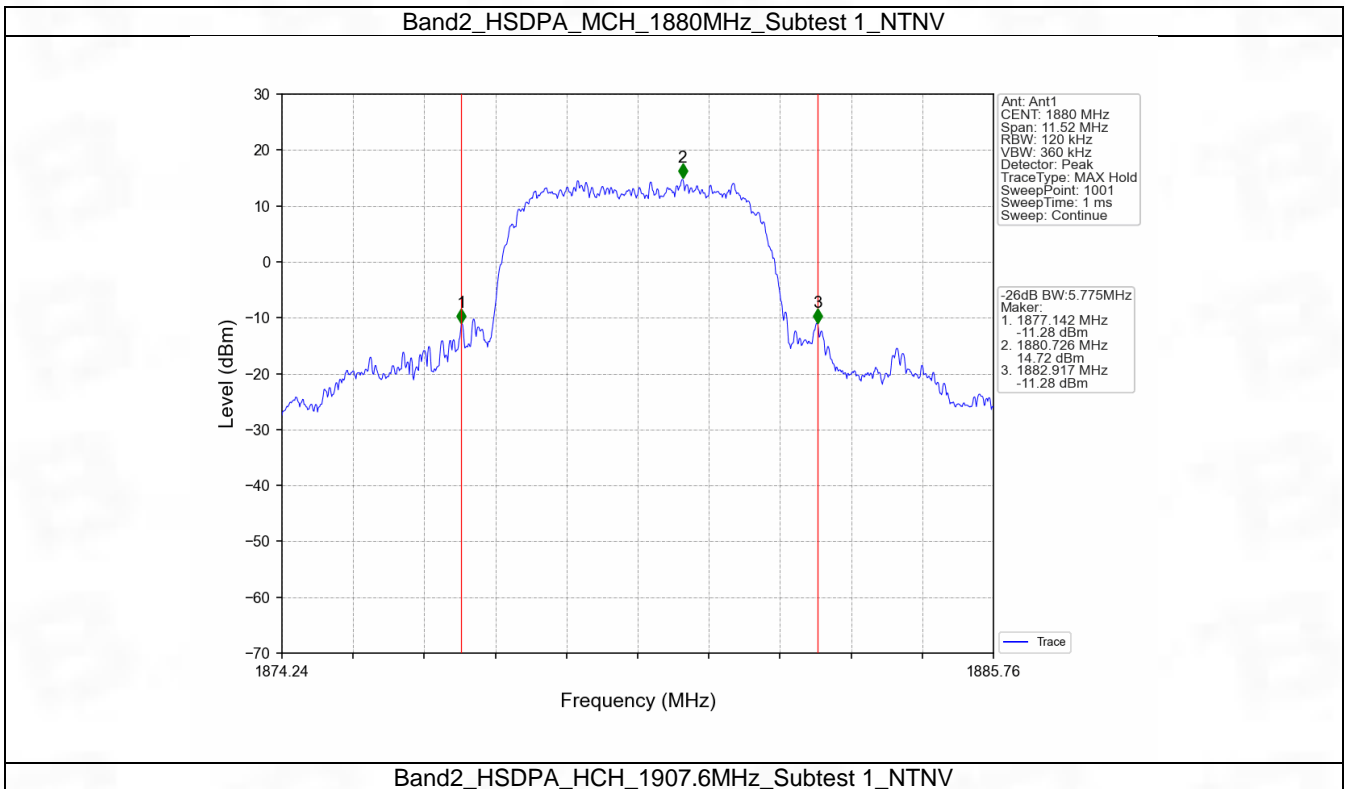
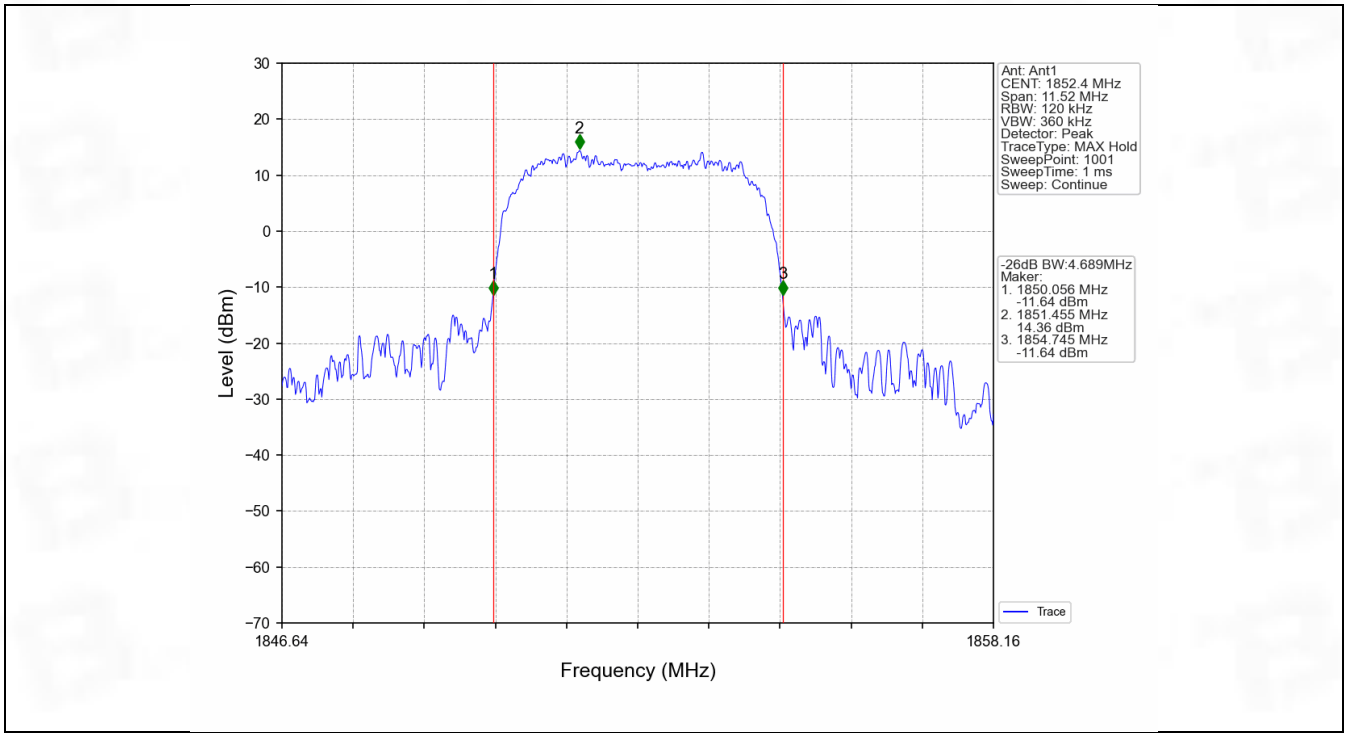
### 4.2.1 Test Result

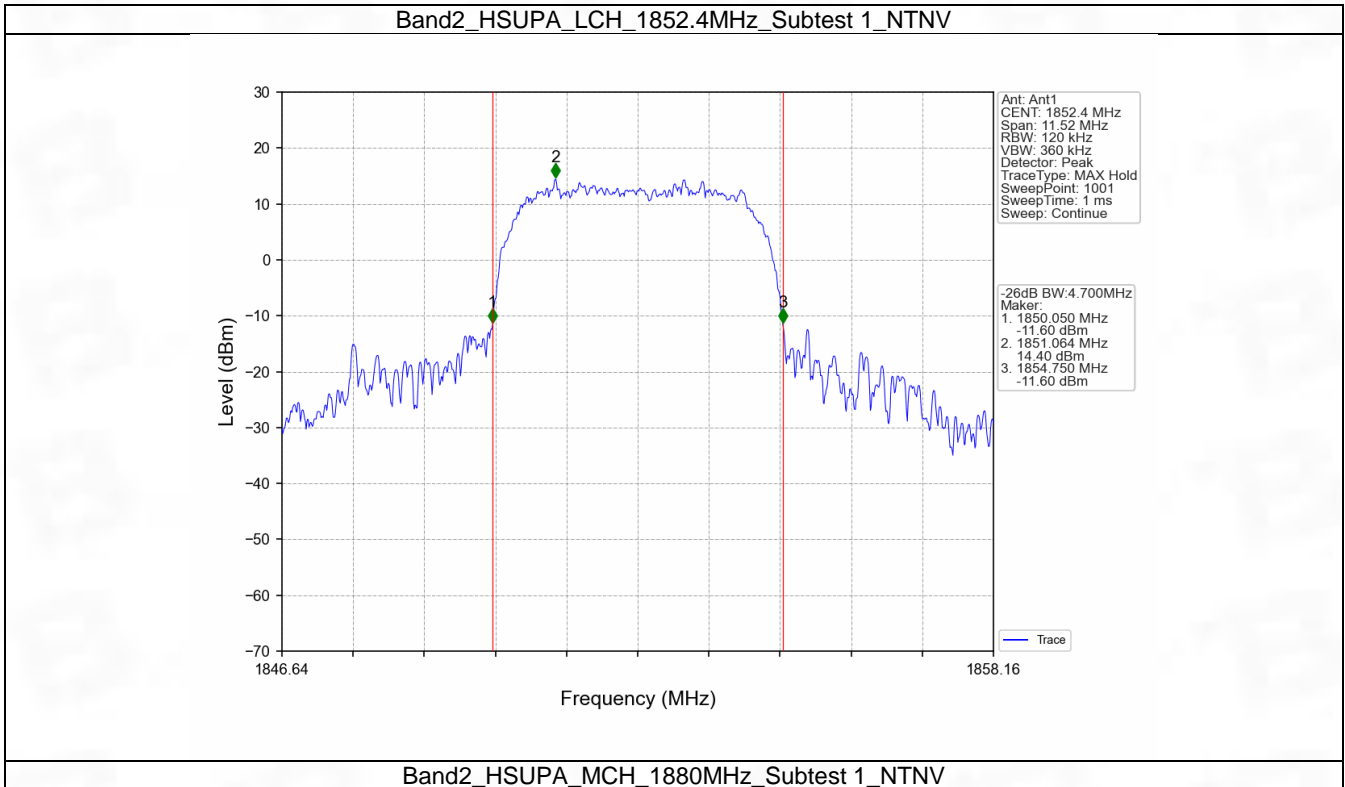
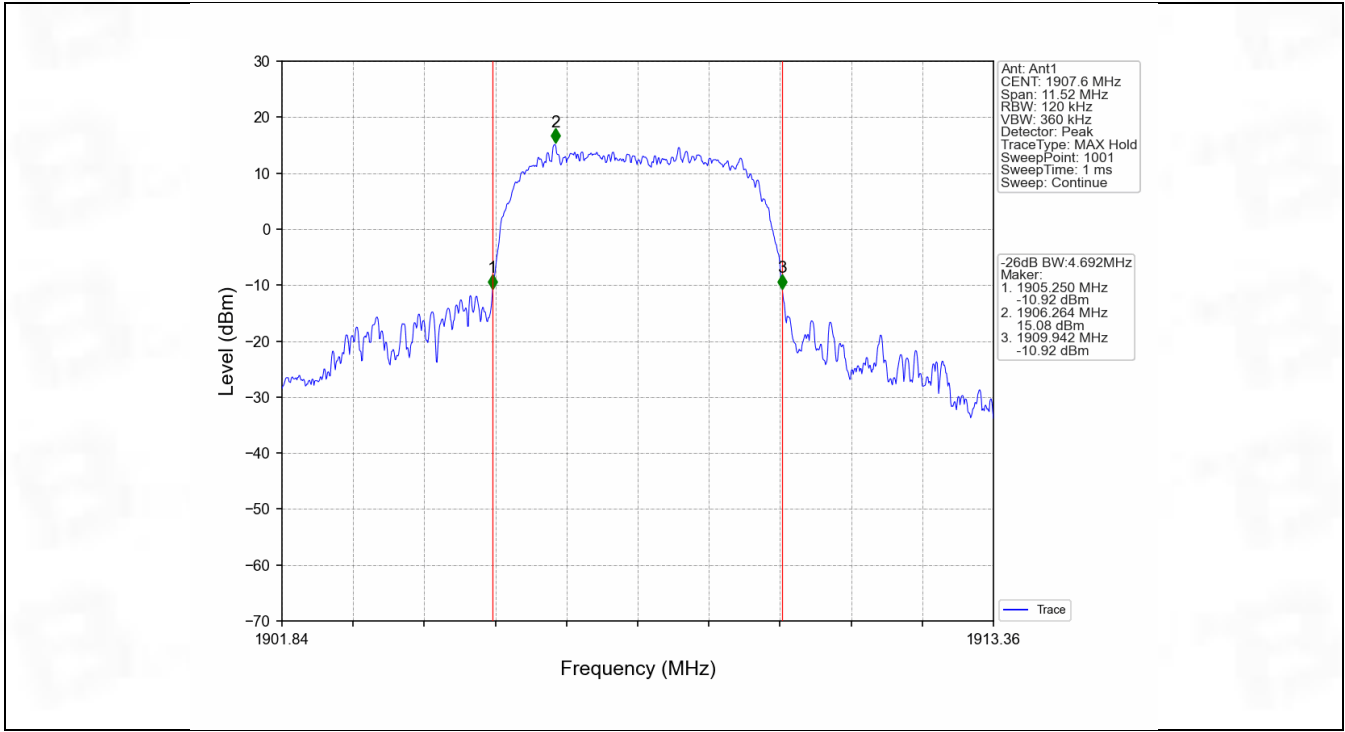
Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.700	Pass
			1880	4.728	Pass
			1907.6	4.729	Pass
	HSDPA	Subtest 1	1852.4	4.689	Pass
			1880	5.775	Pass
			1907.6	4.692	Pass
	HSUPA	Subtest 1	1852.4	4.700	Pass
			1880	4.894	Pass
			1907.6	4.934	Pass

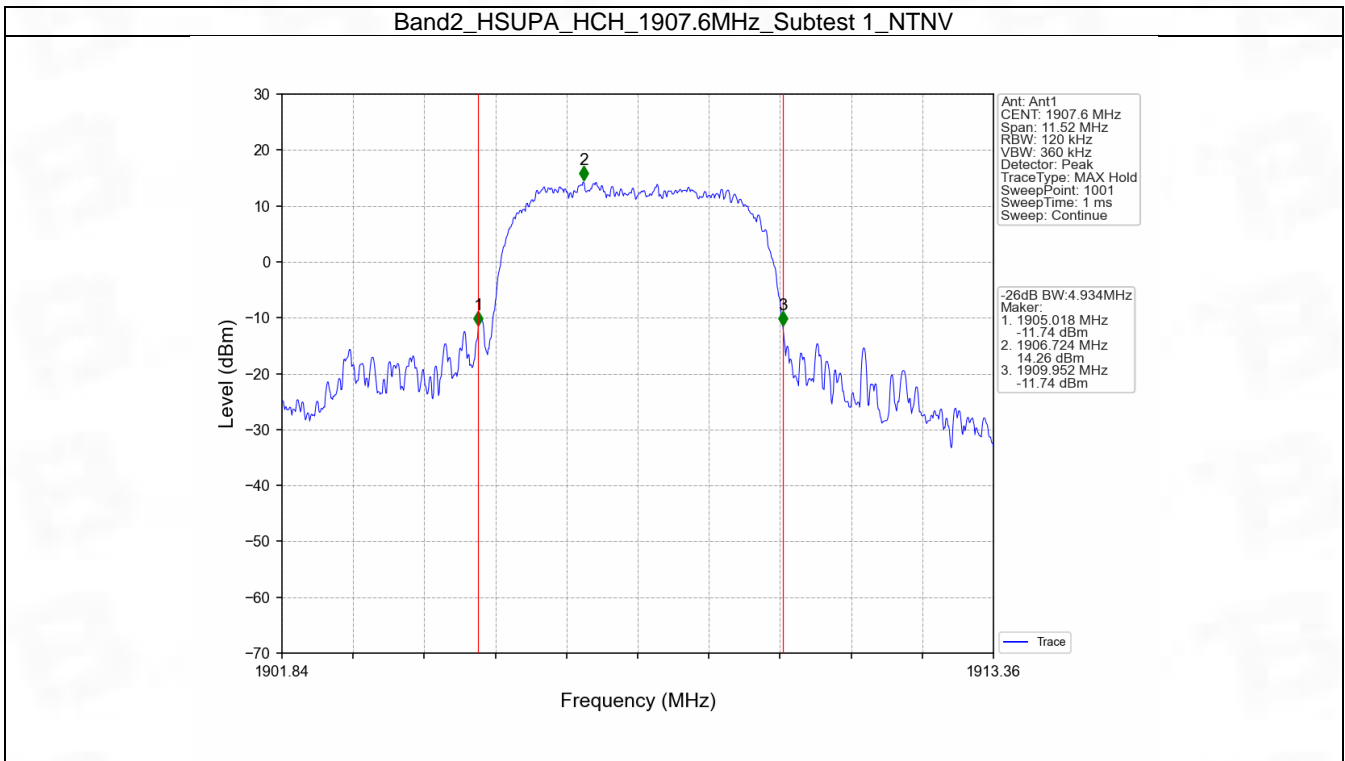
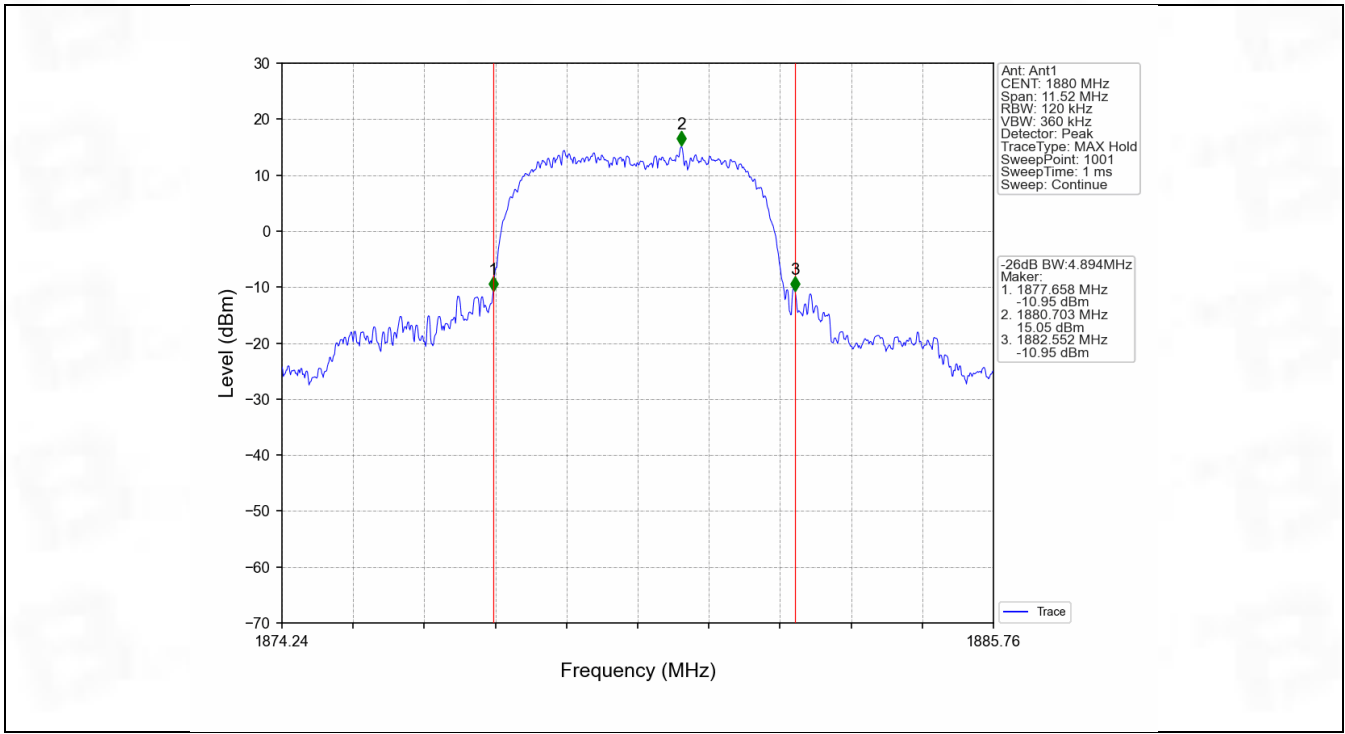
### 4.2.2 Test Graph











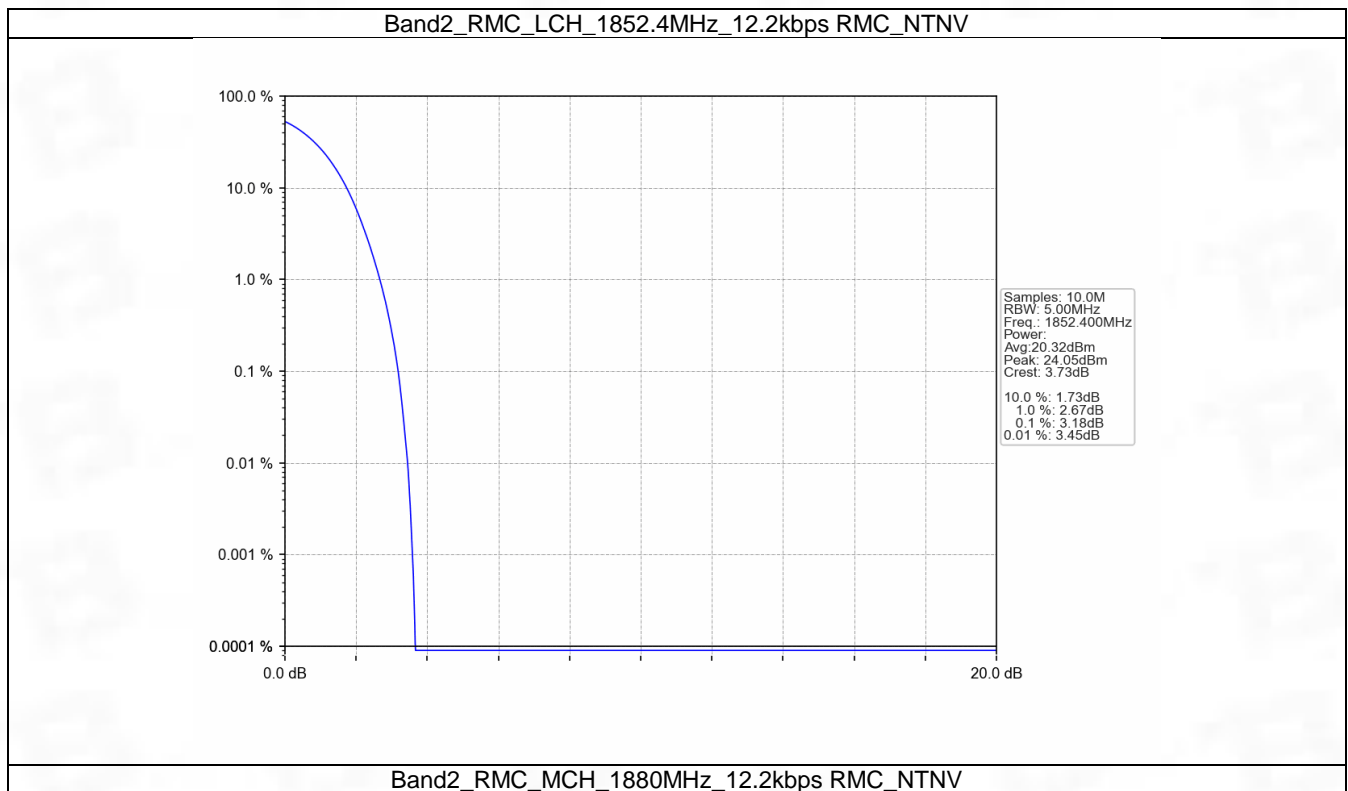
## 5. Peak-Average Ratio

### 5.1 Band2

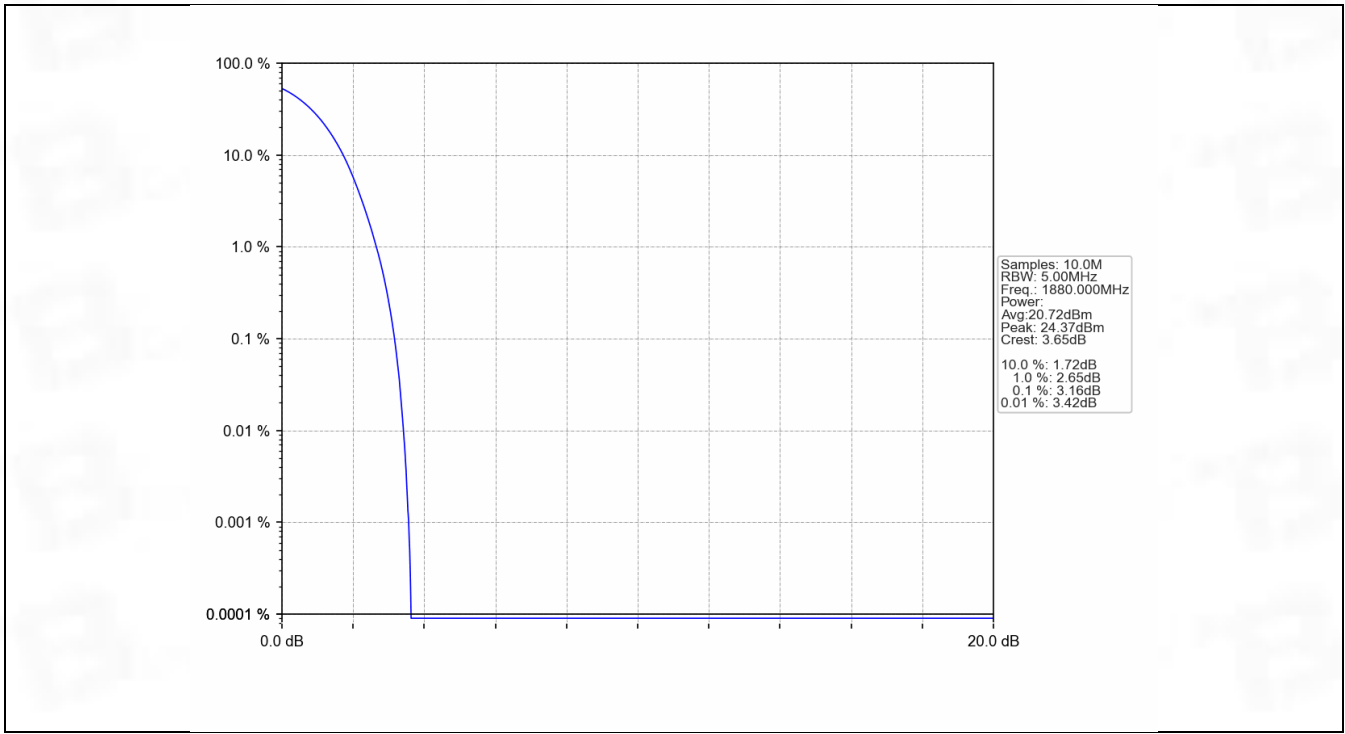
#### 5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.18	<=13	Pass
			1880	3.16	<=13	Pass
			1907.6	3.13	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.75	<=13	Pass
			1880	5.68	<=13	Pass
			1907.6	5.79	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.78	<=13	Pass
			1880	5.74	<=13	Pass
			1907.6	5.64	<=13	Pass

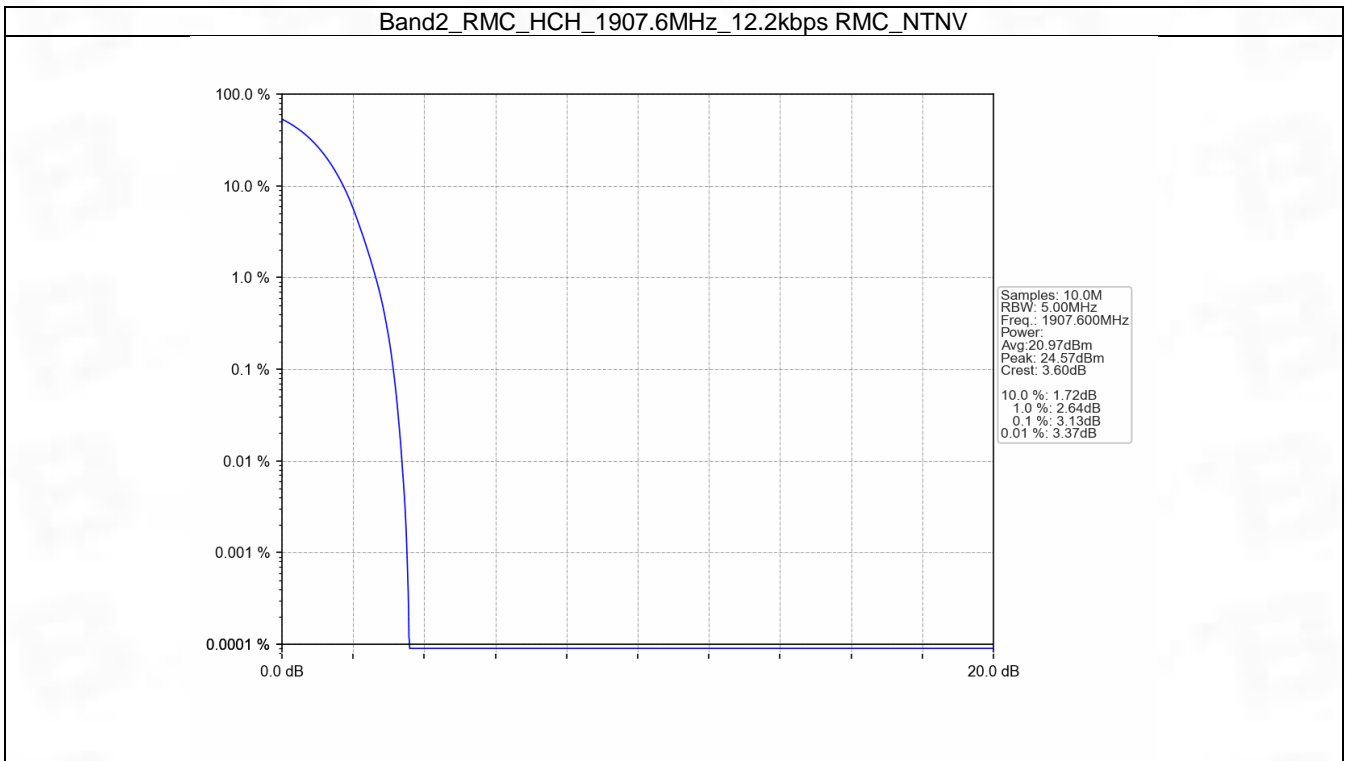
#### 5.1.2 Test Graph



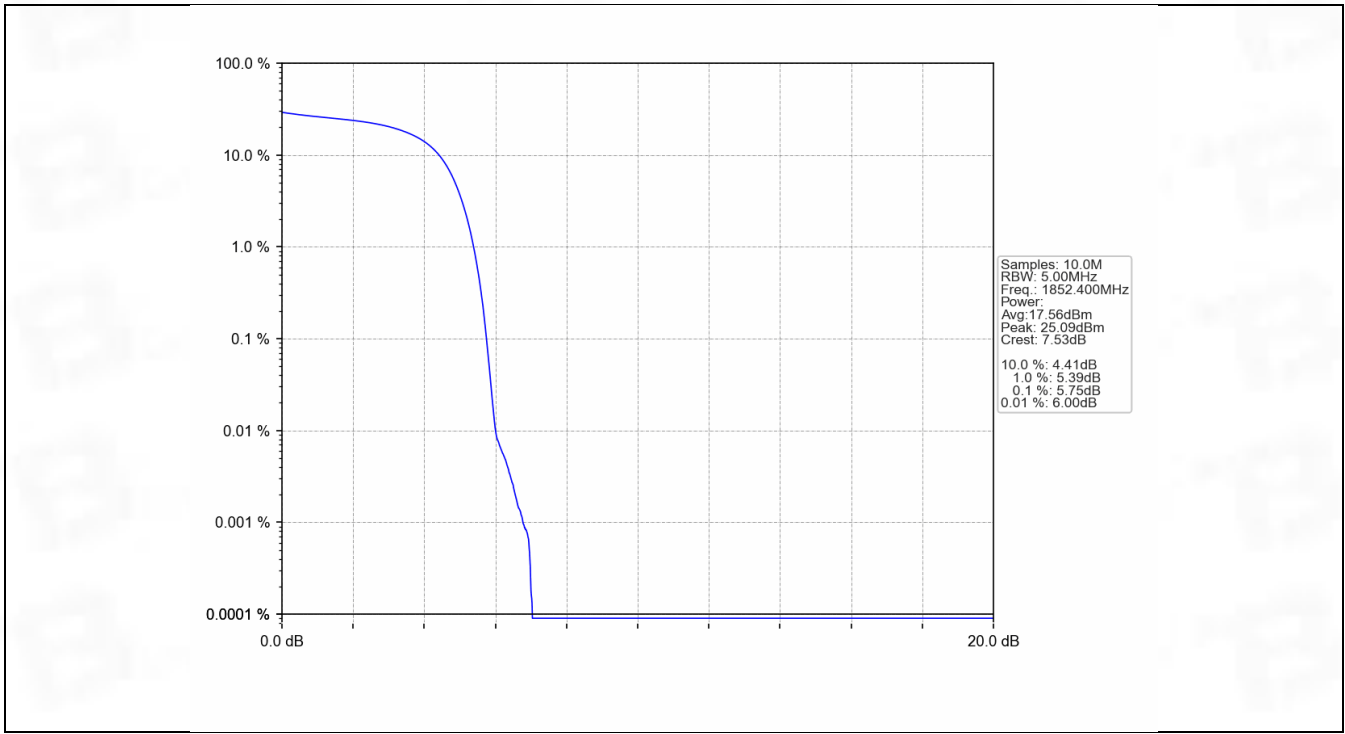




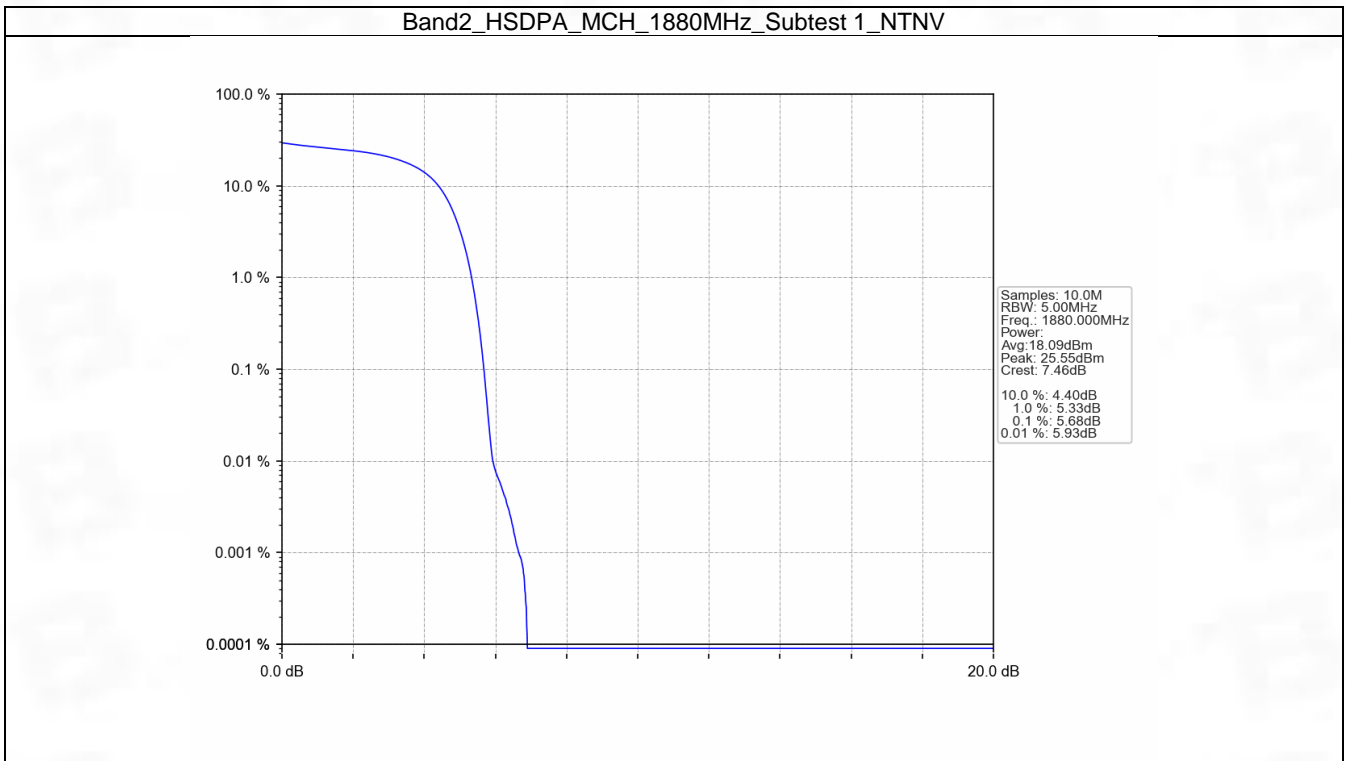
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



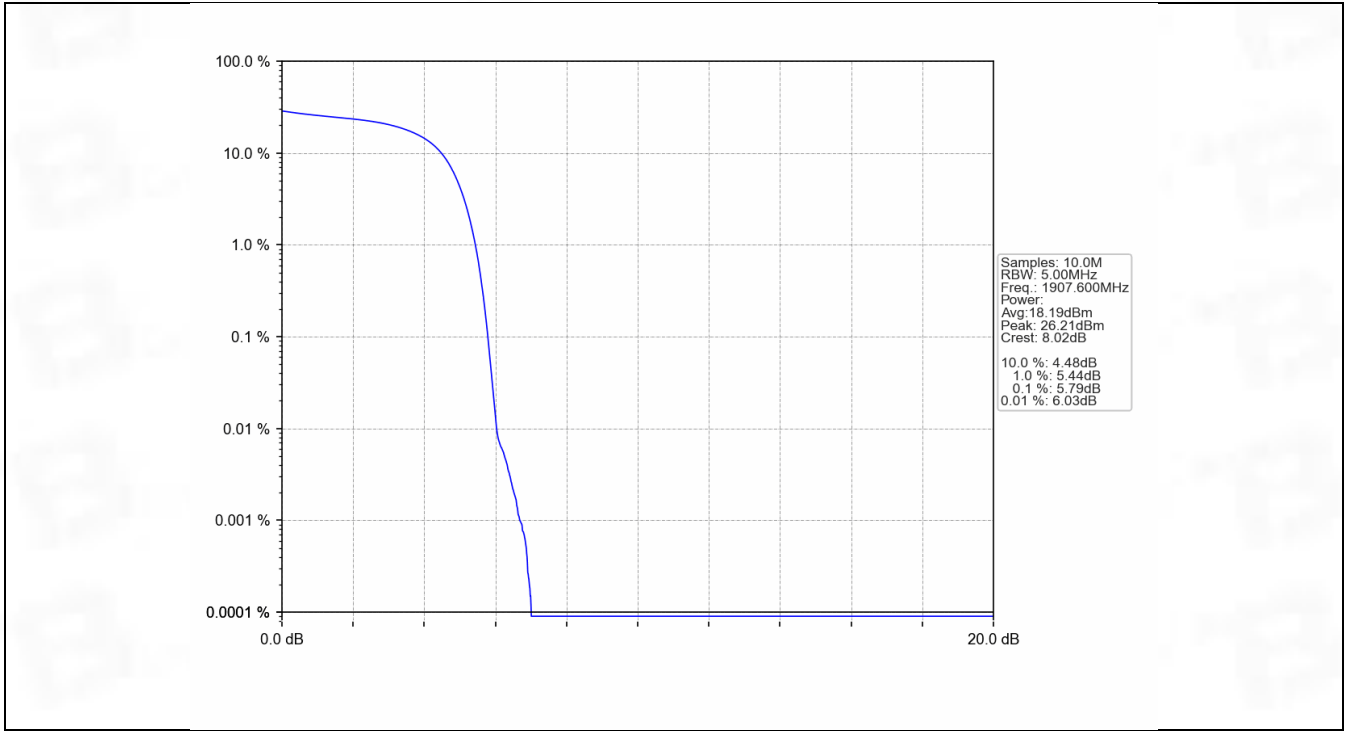
Band2\_HSDPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



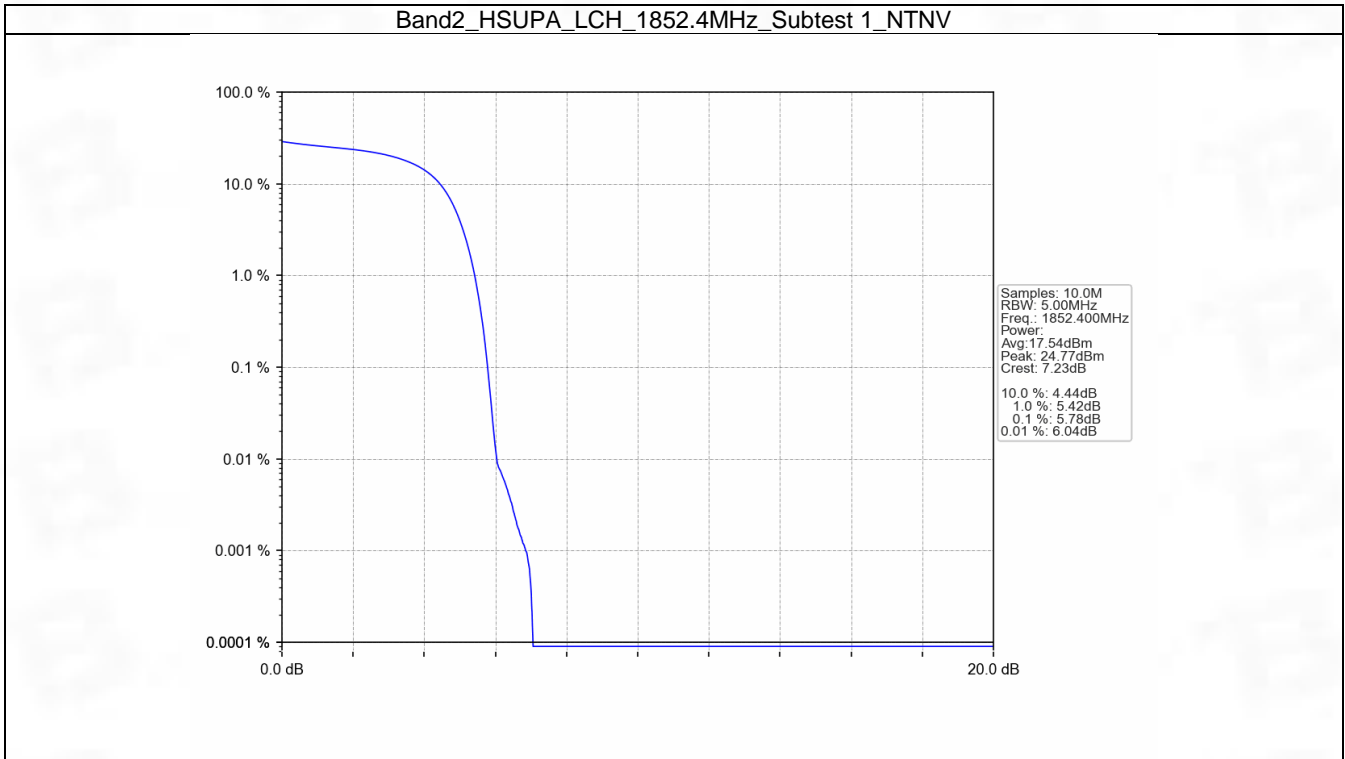
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV



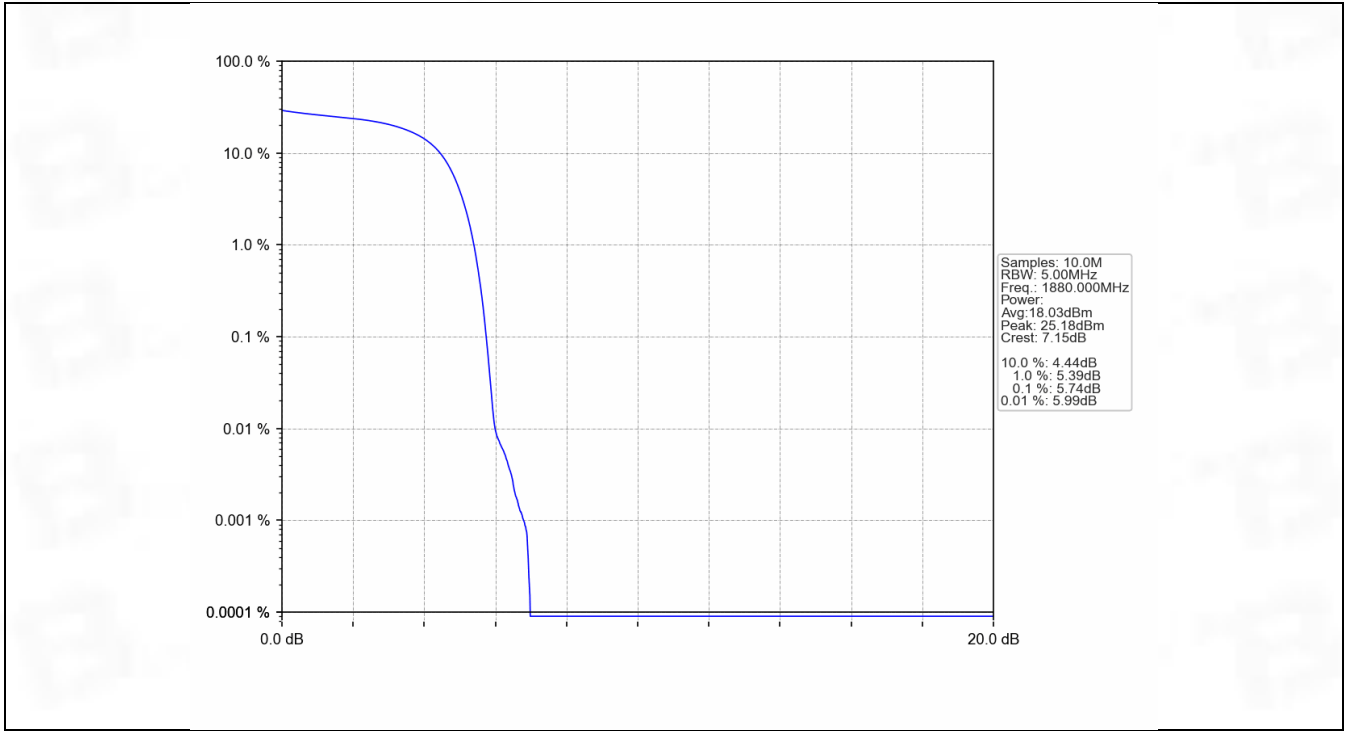
Band2\_HSDPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



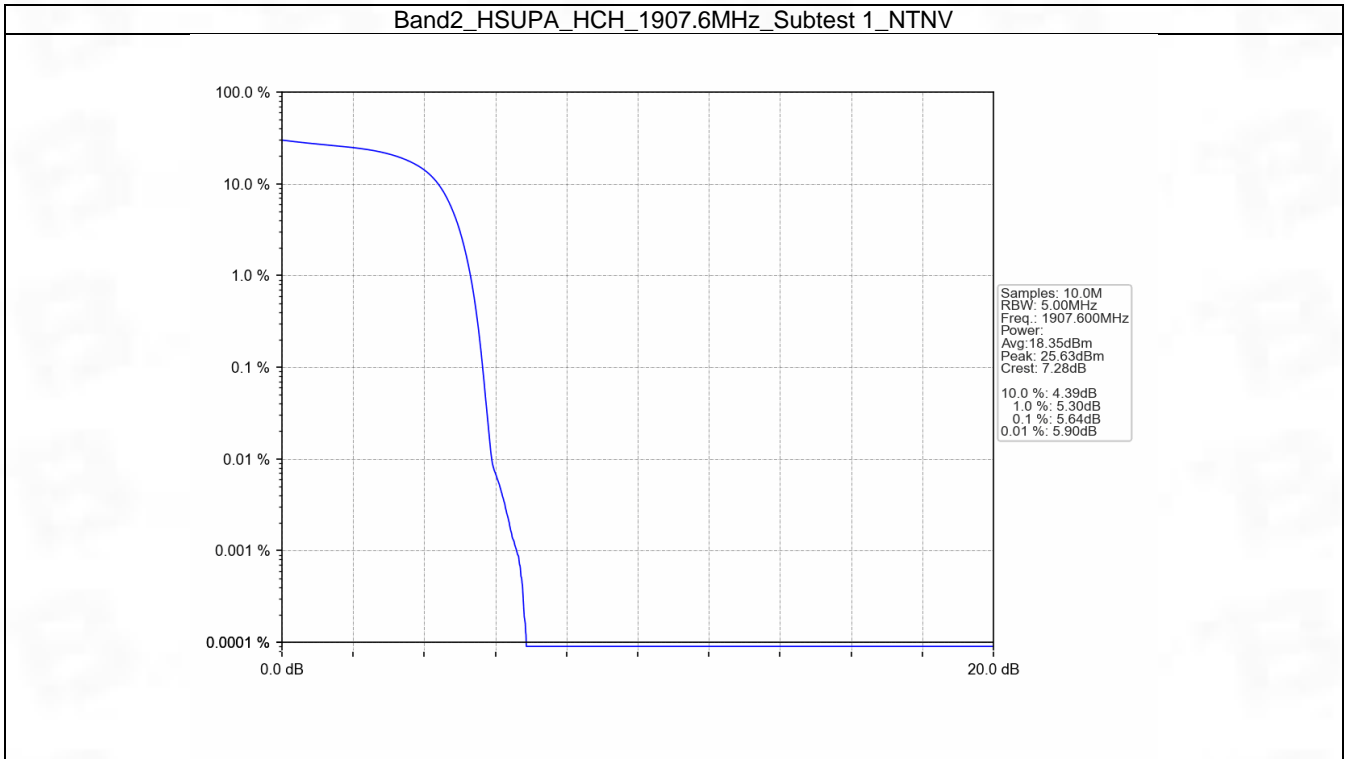
Band2\_HSUPA\_LCH\_1852.4MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_MCH\_1880MHz\_Subtest 1\_NTNV



Band2\_HSUPA\_HCH\_1907.6MHz\_Subtest 1\_NTNV



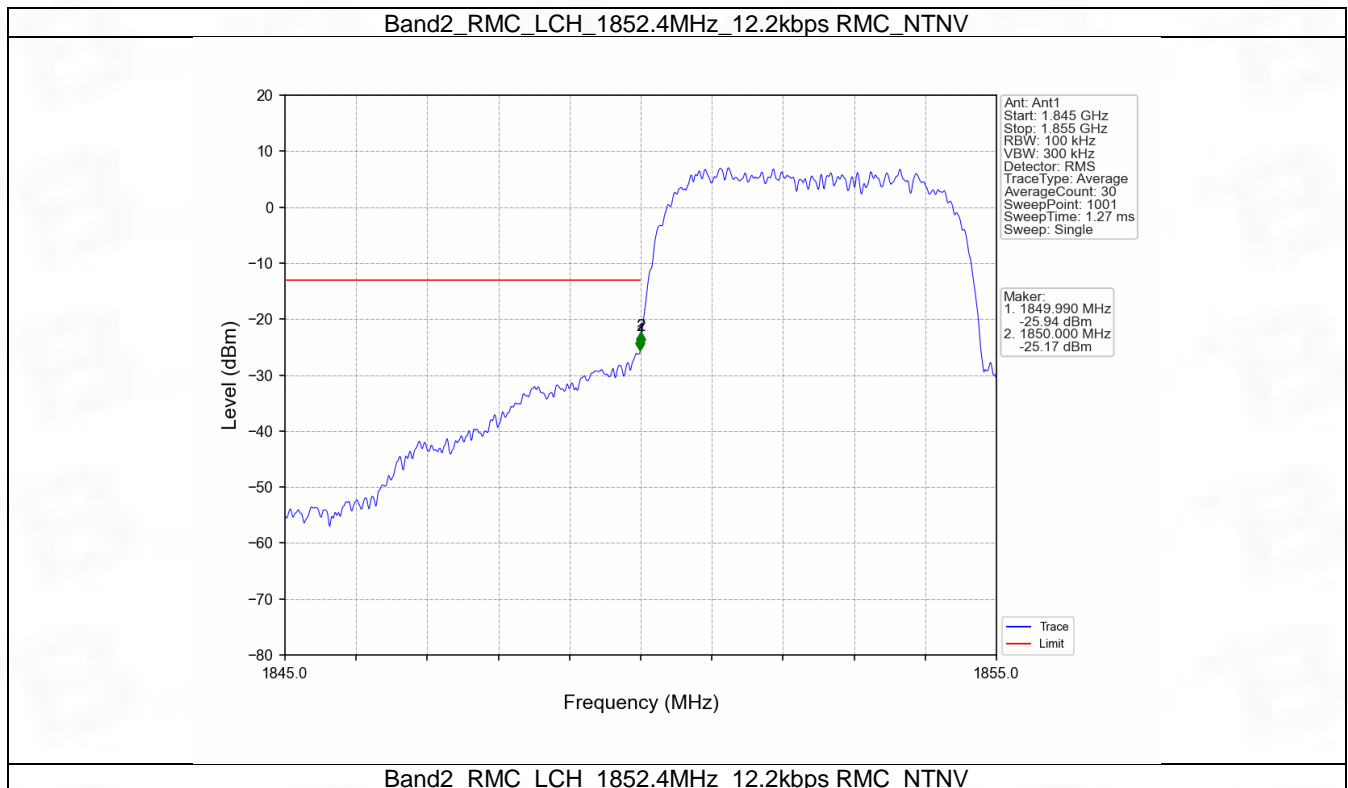
## 6. Spurious Emission

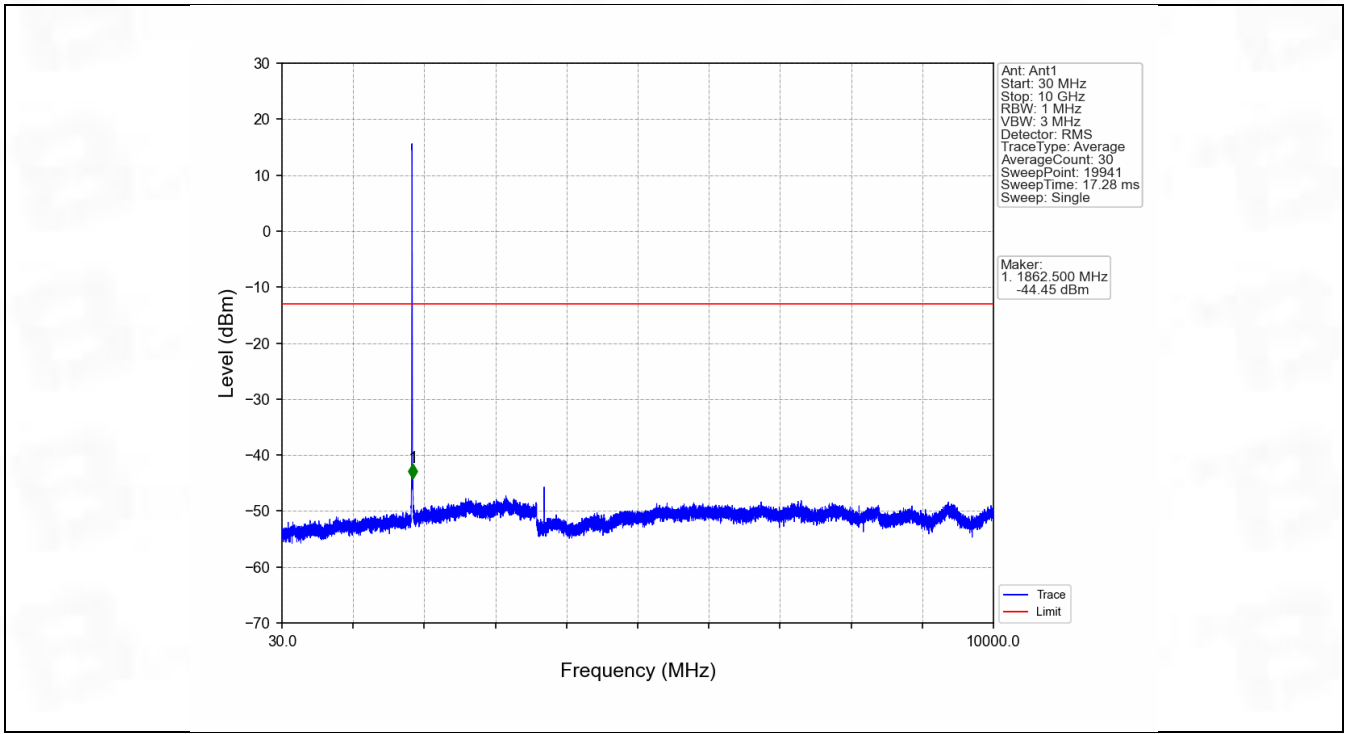
### 6.1 Band2

#### 6.1.1 Test Result

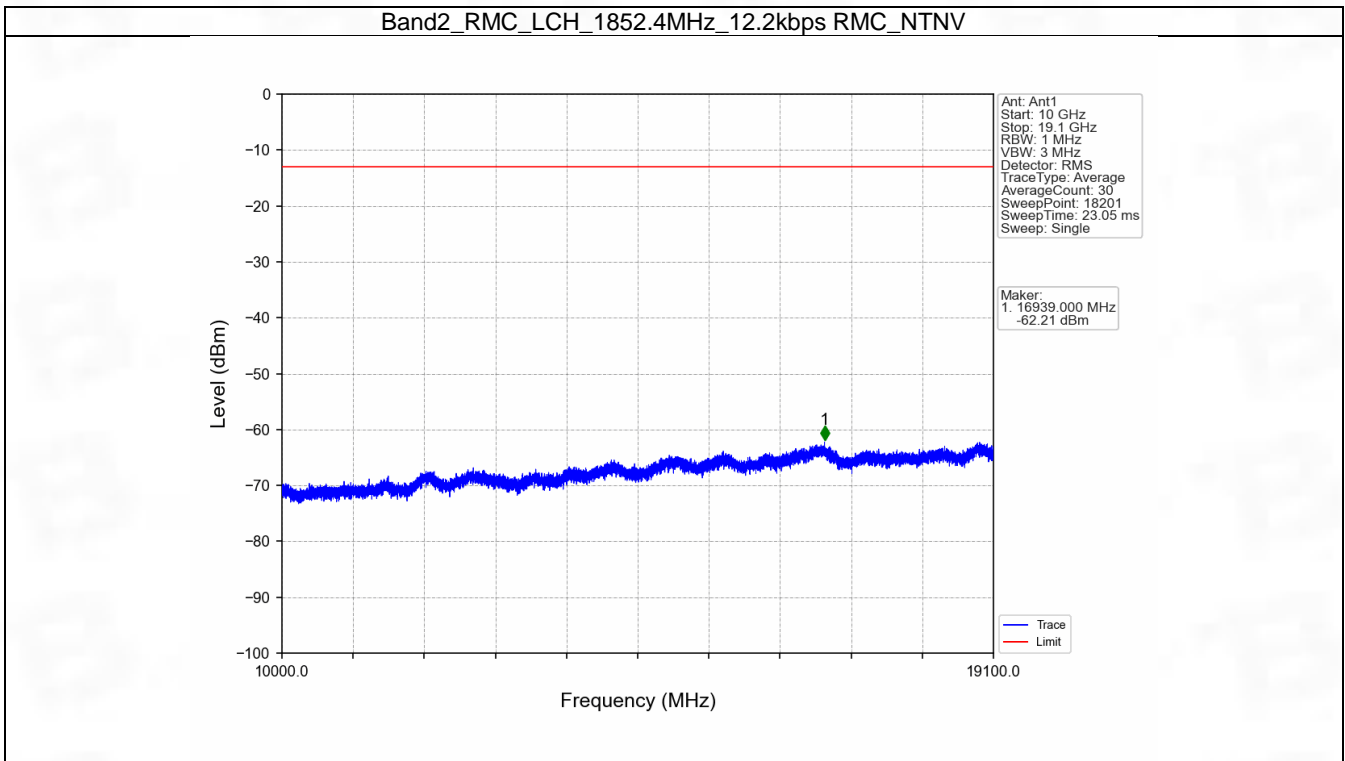
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass

#### 6.1.2 Test Graph

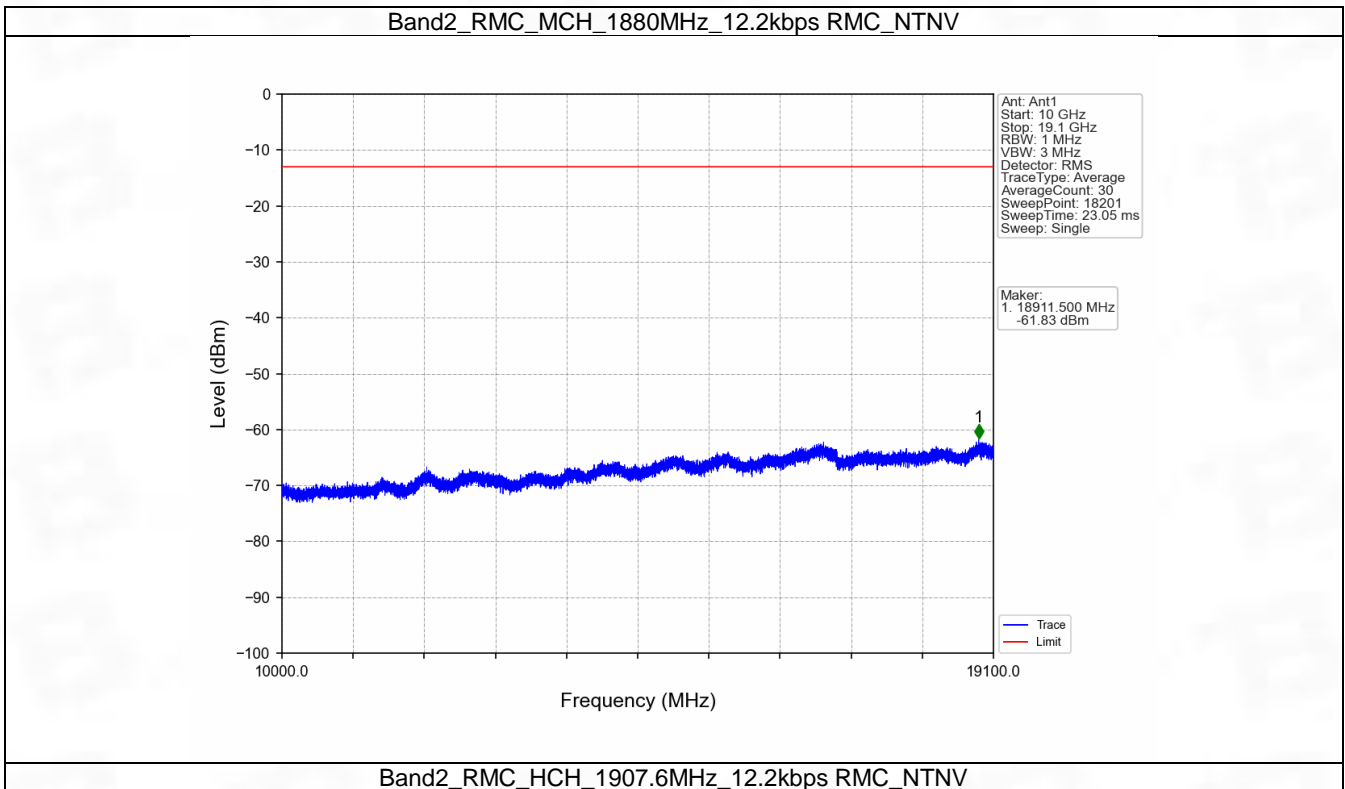
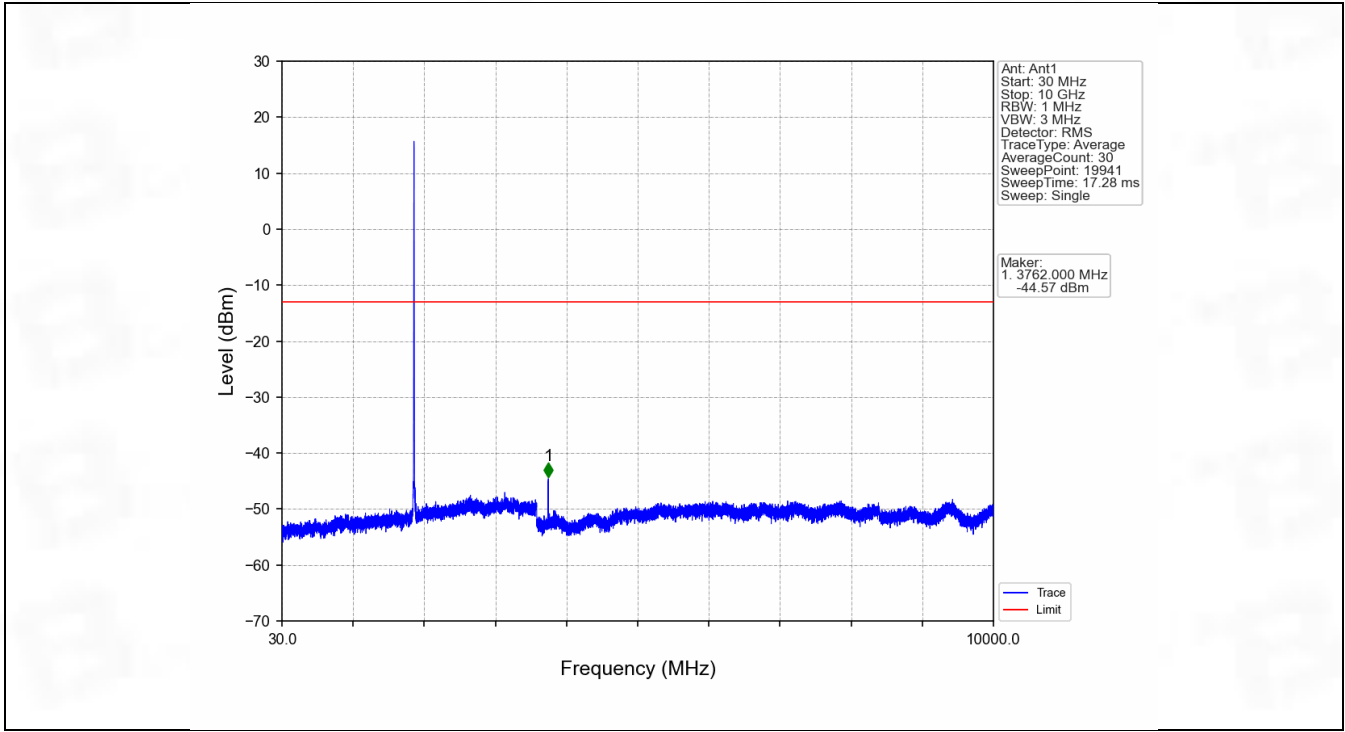


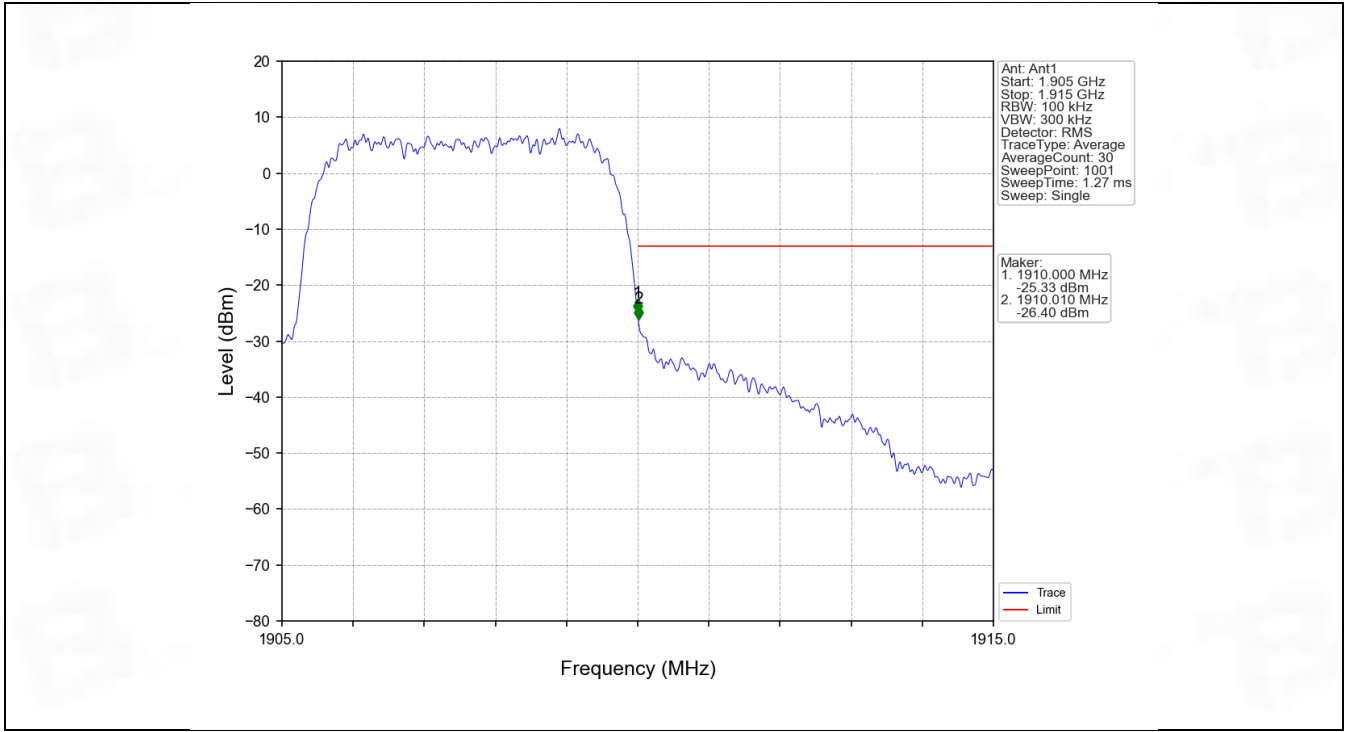


Band2\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV

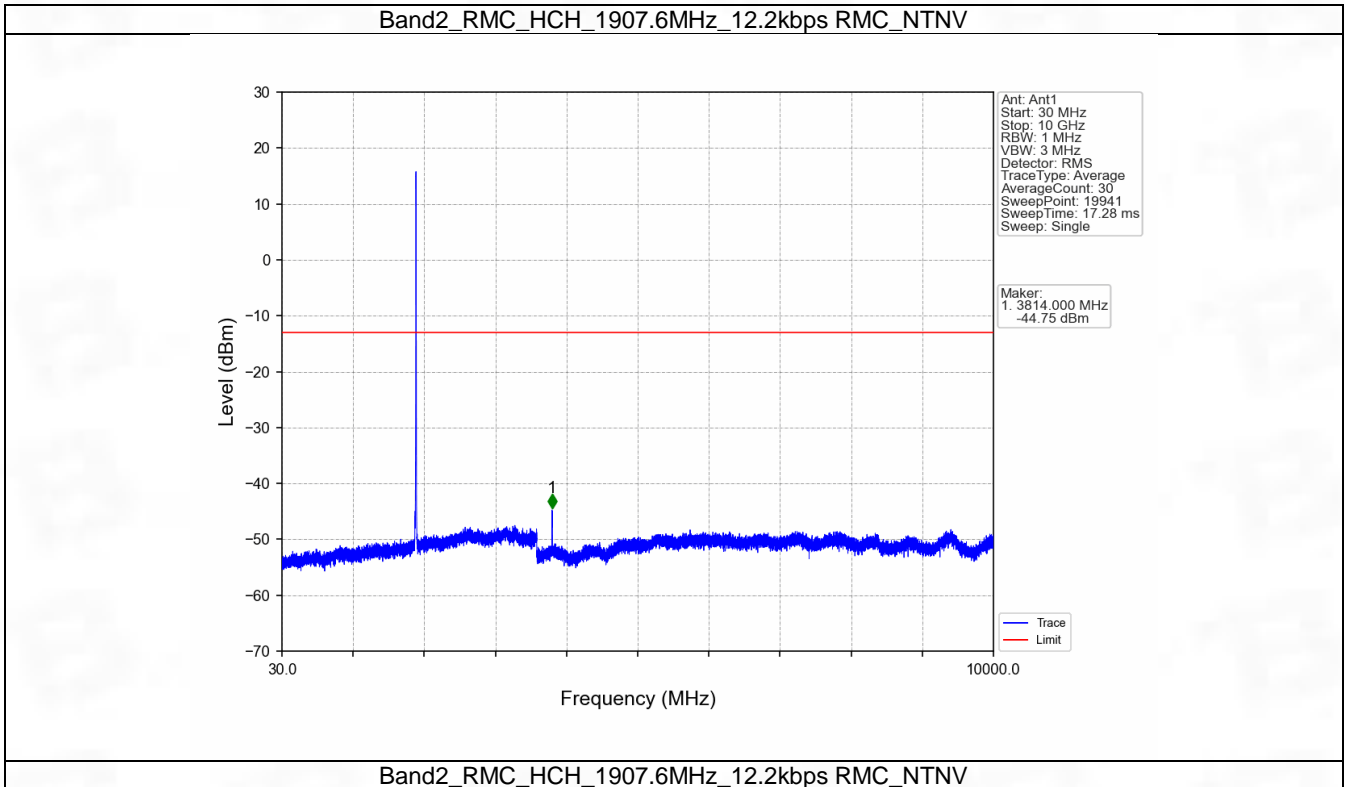


Band2\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



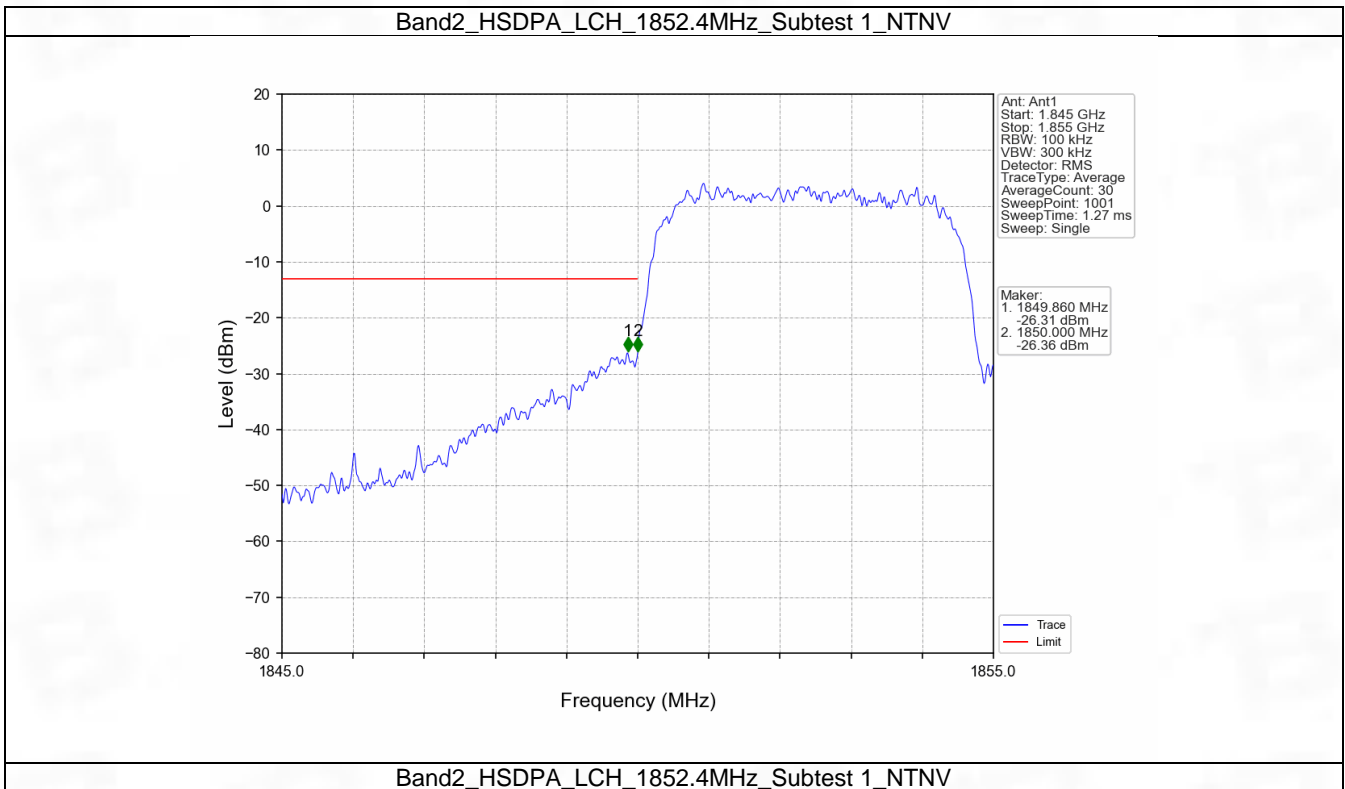
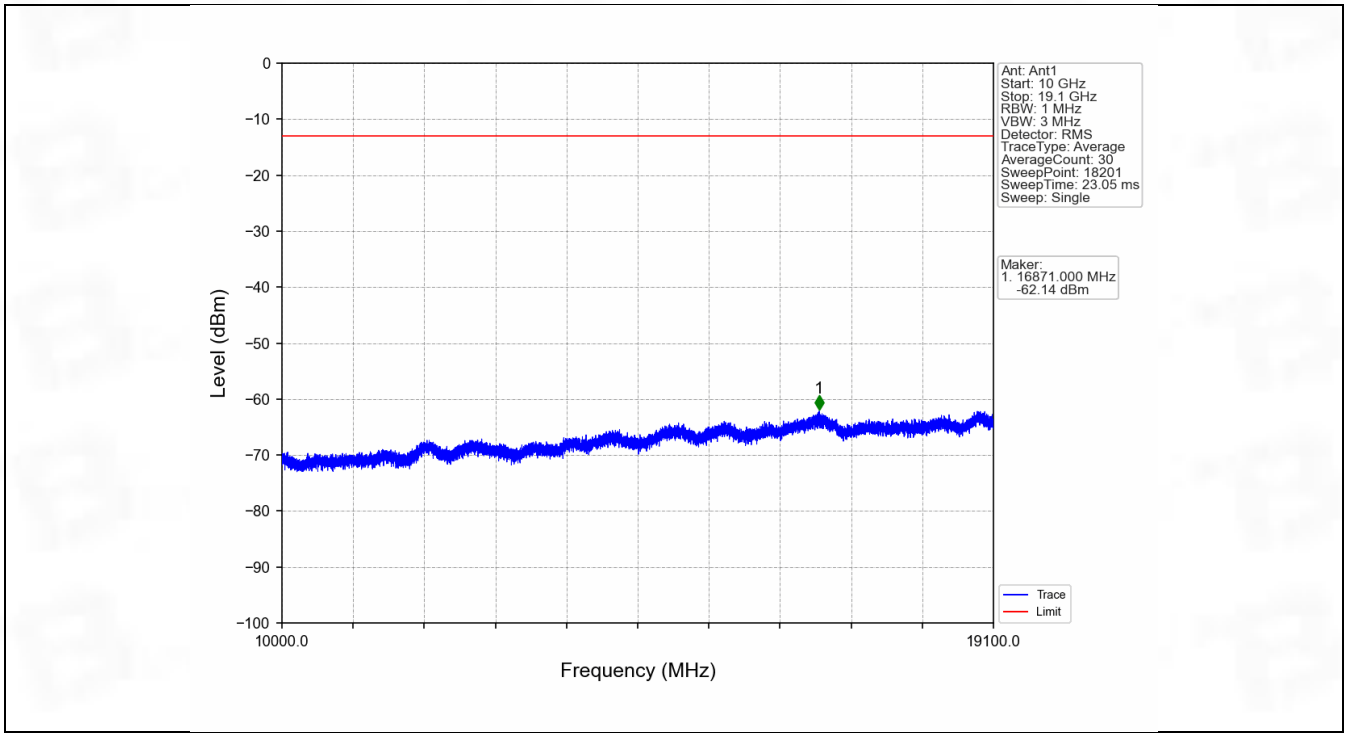


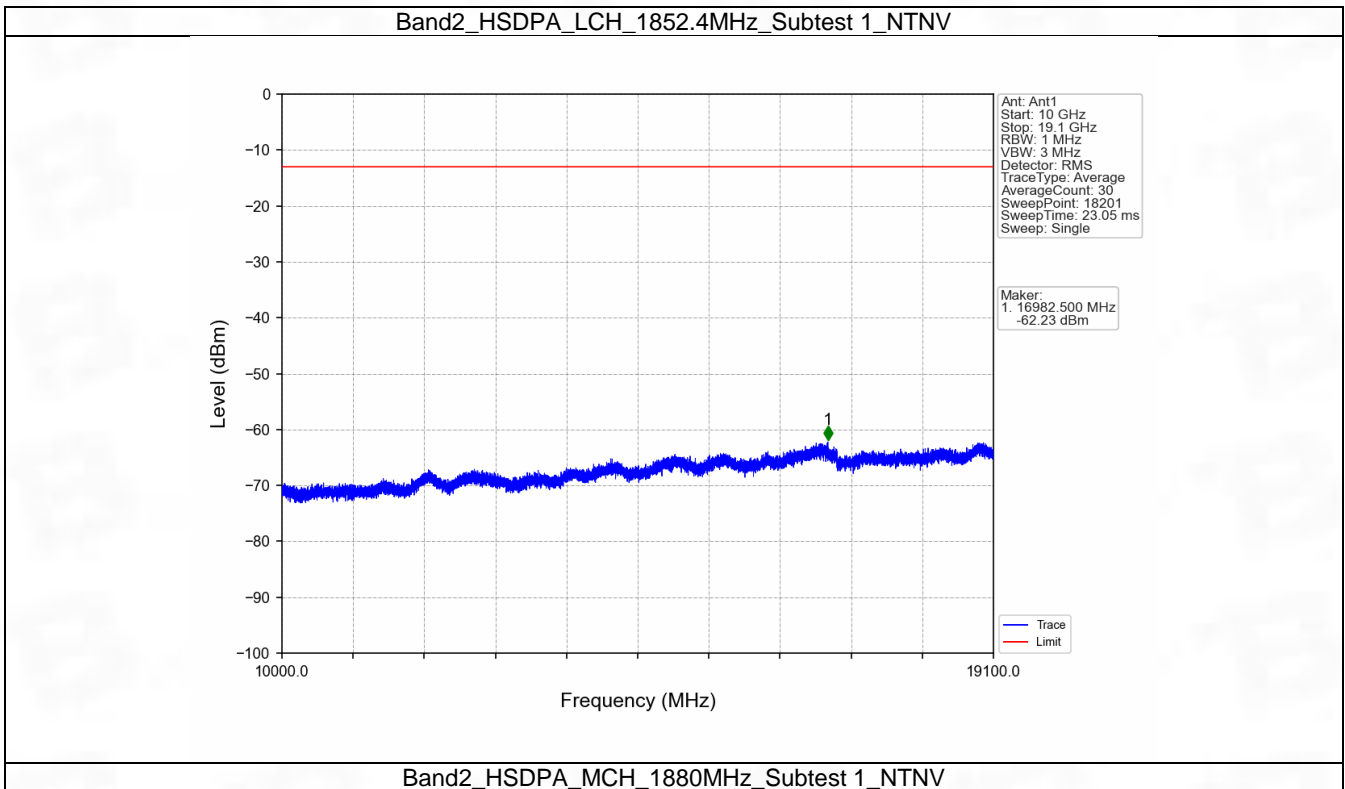
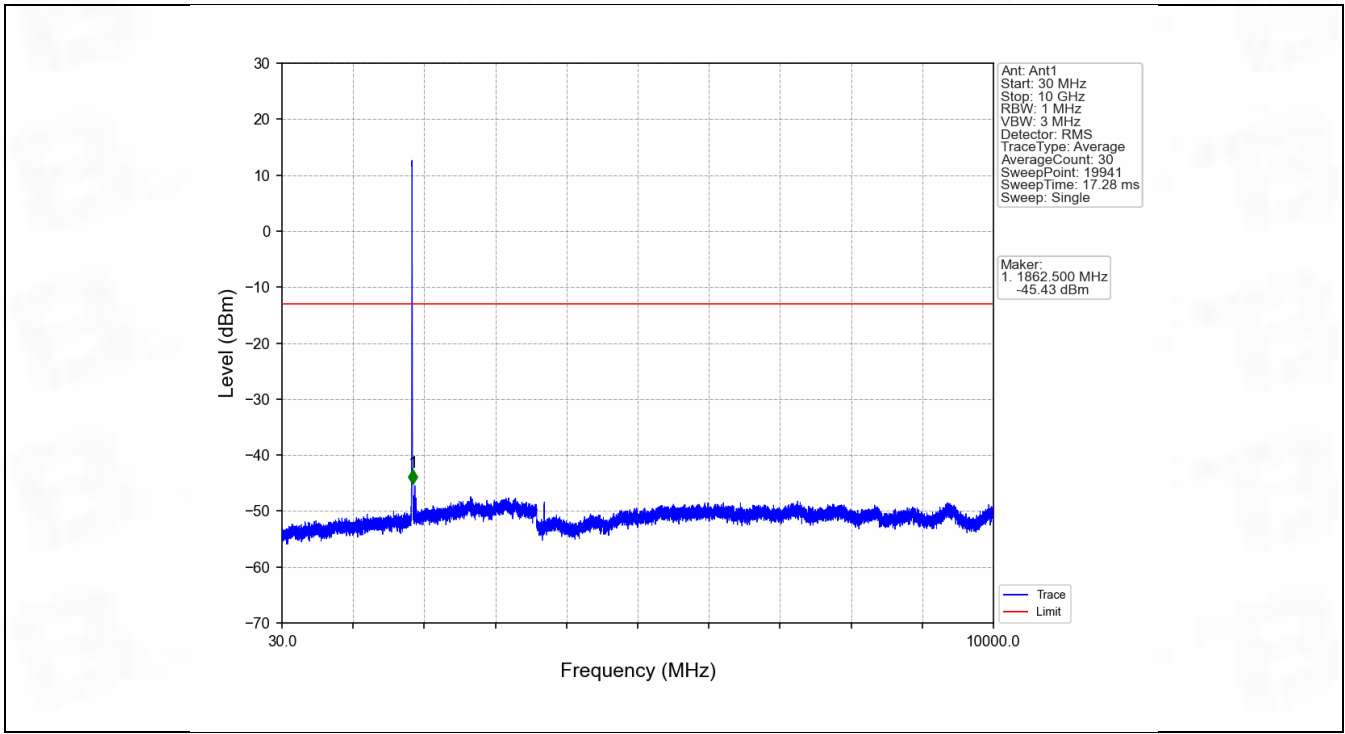
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



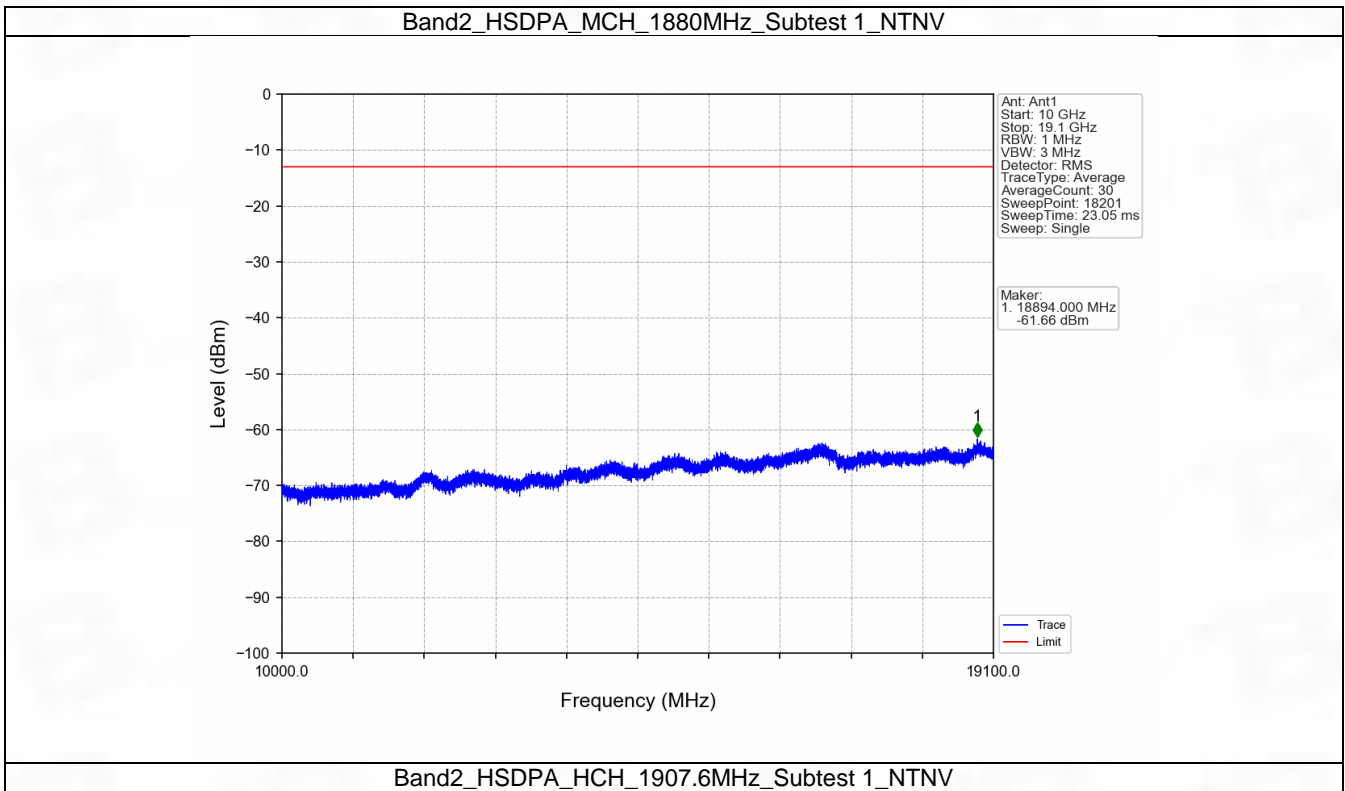
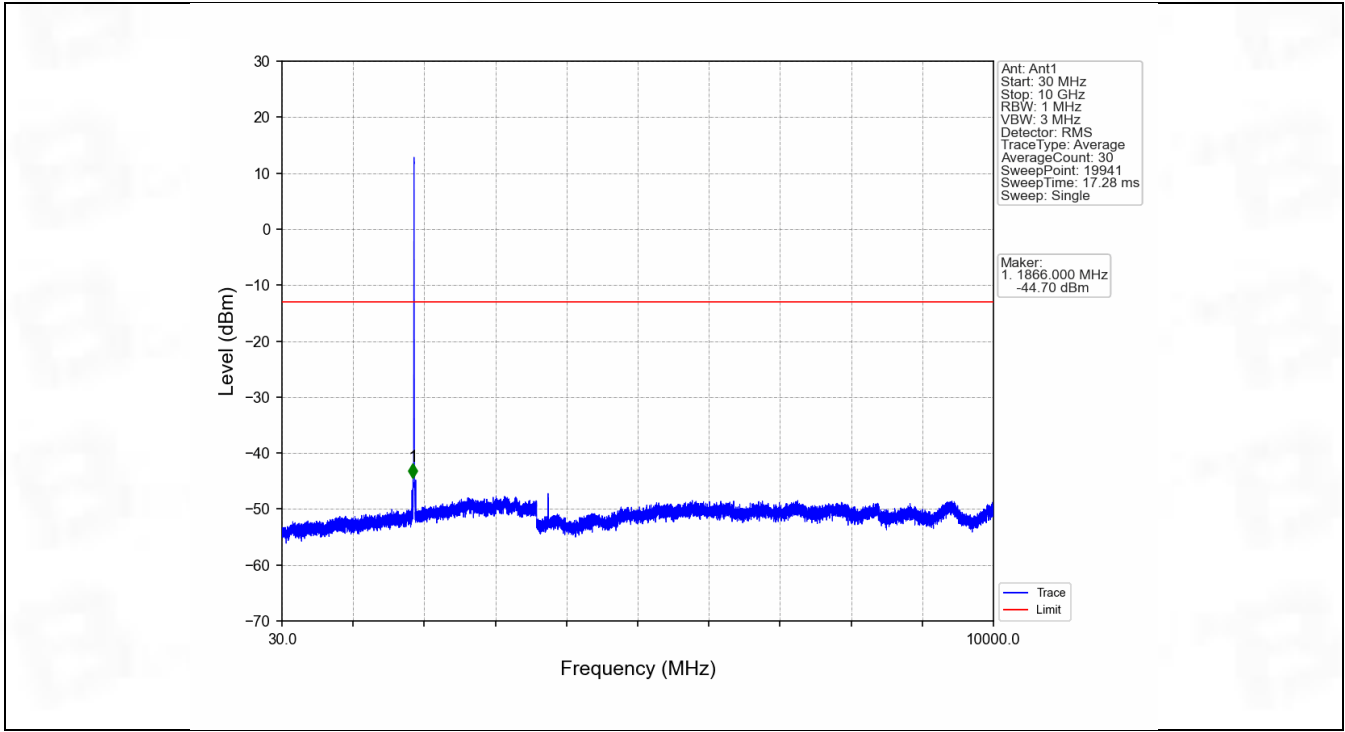
Band2\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV

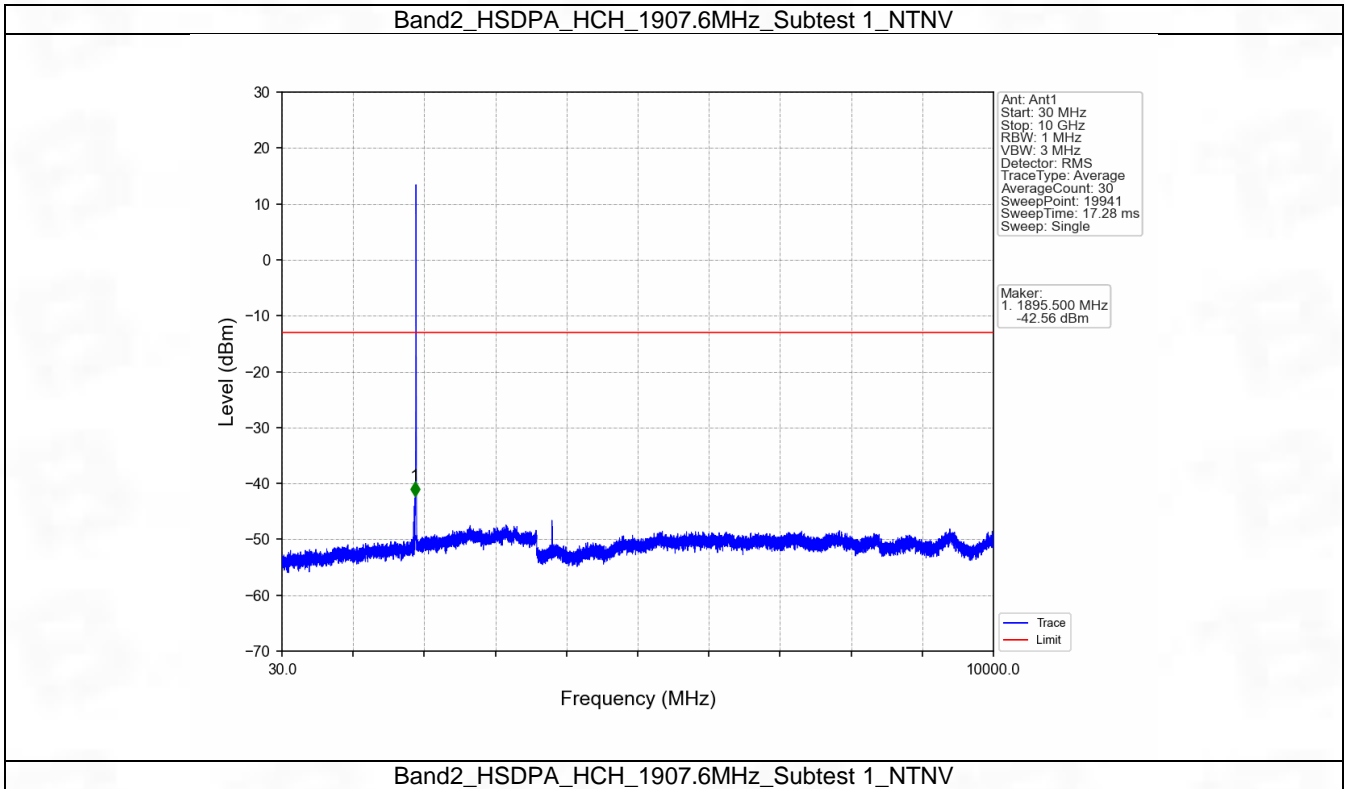
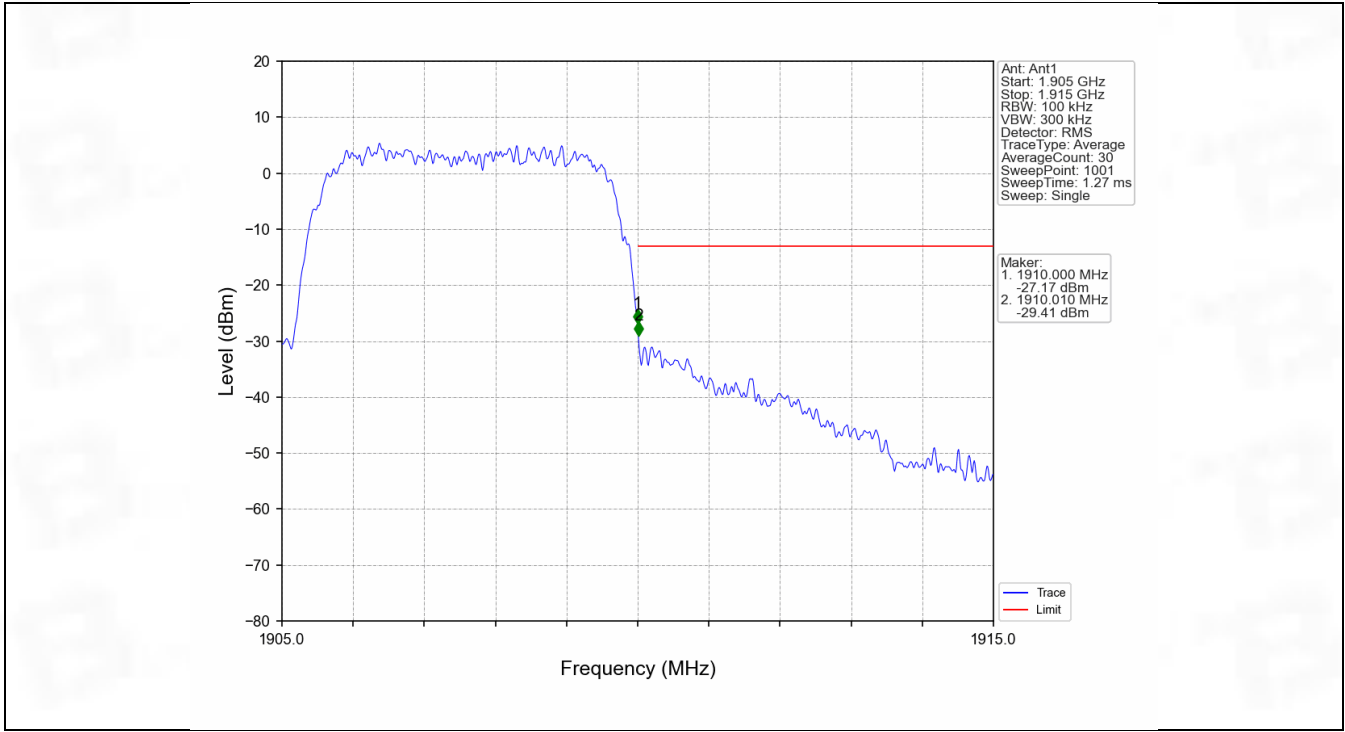


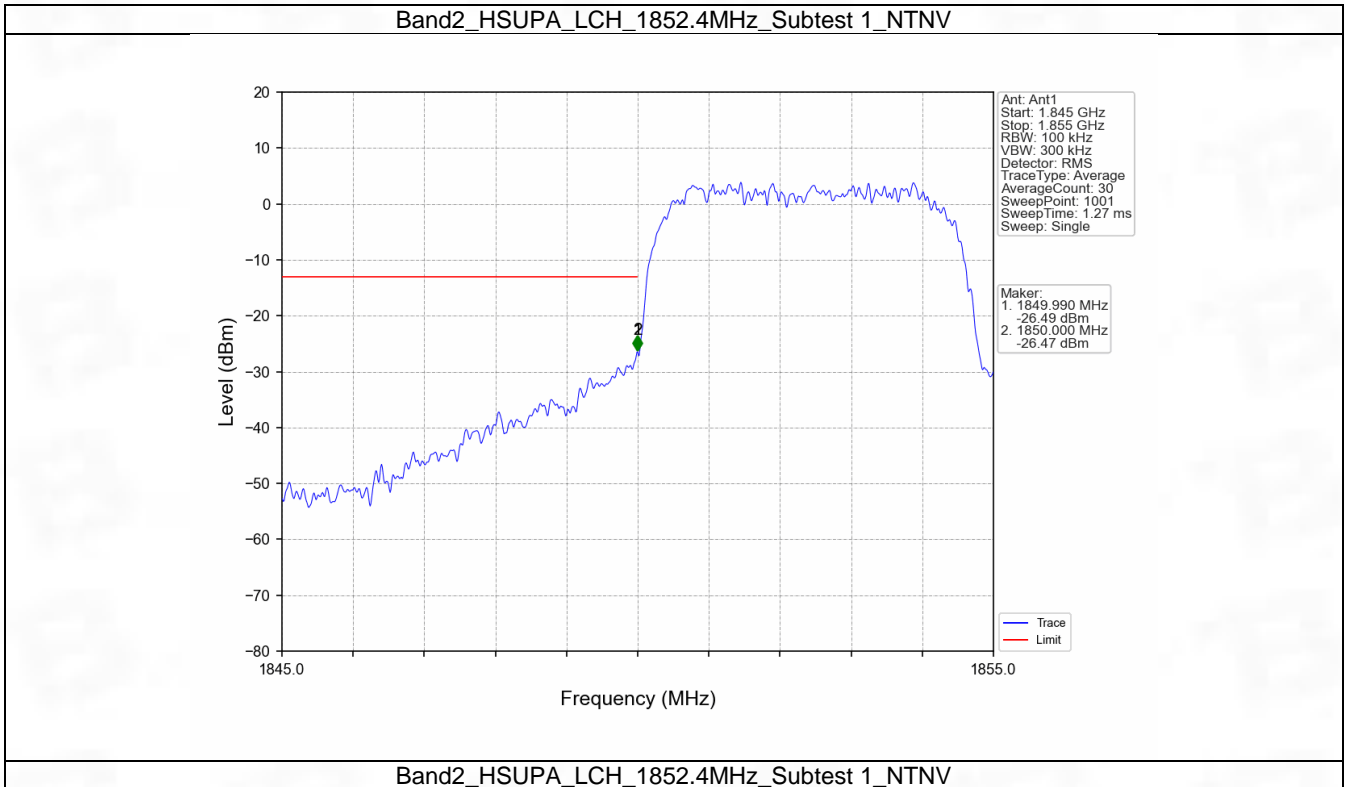
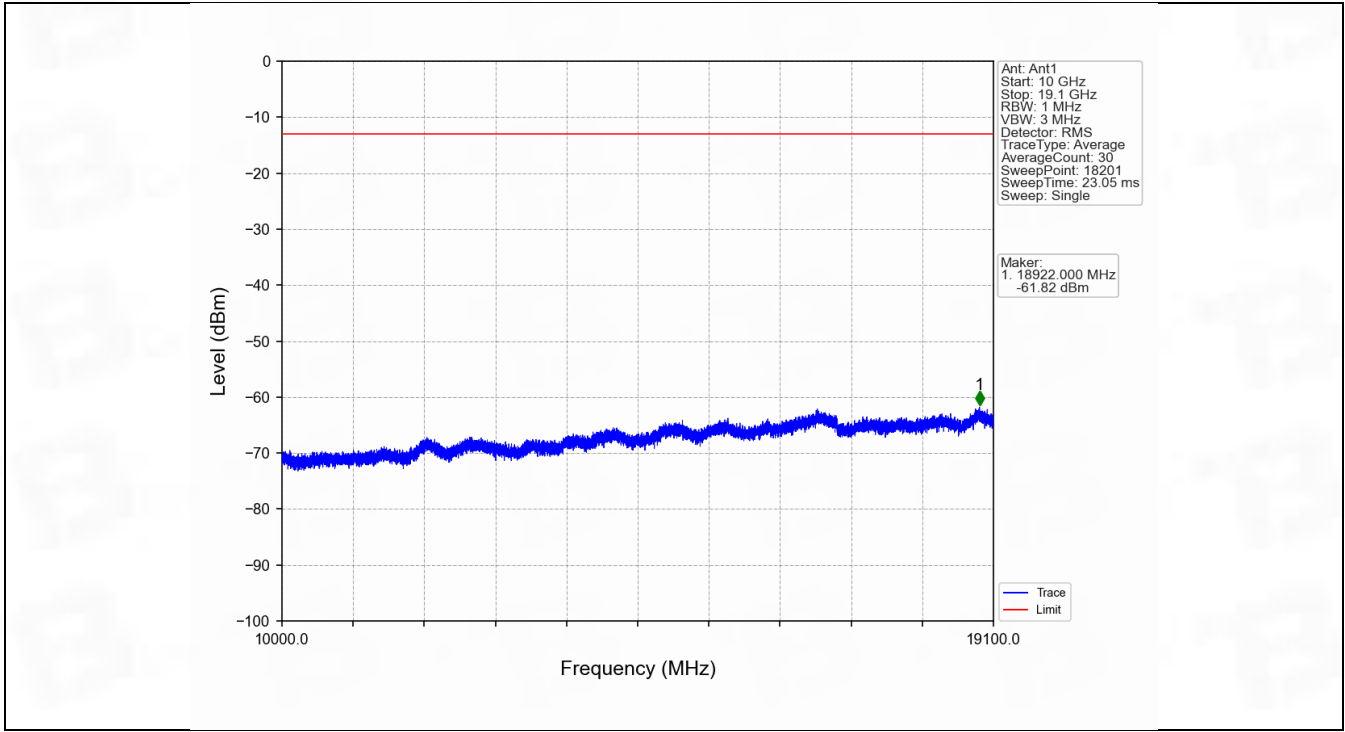


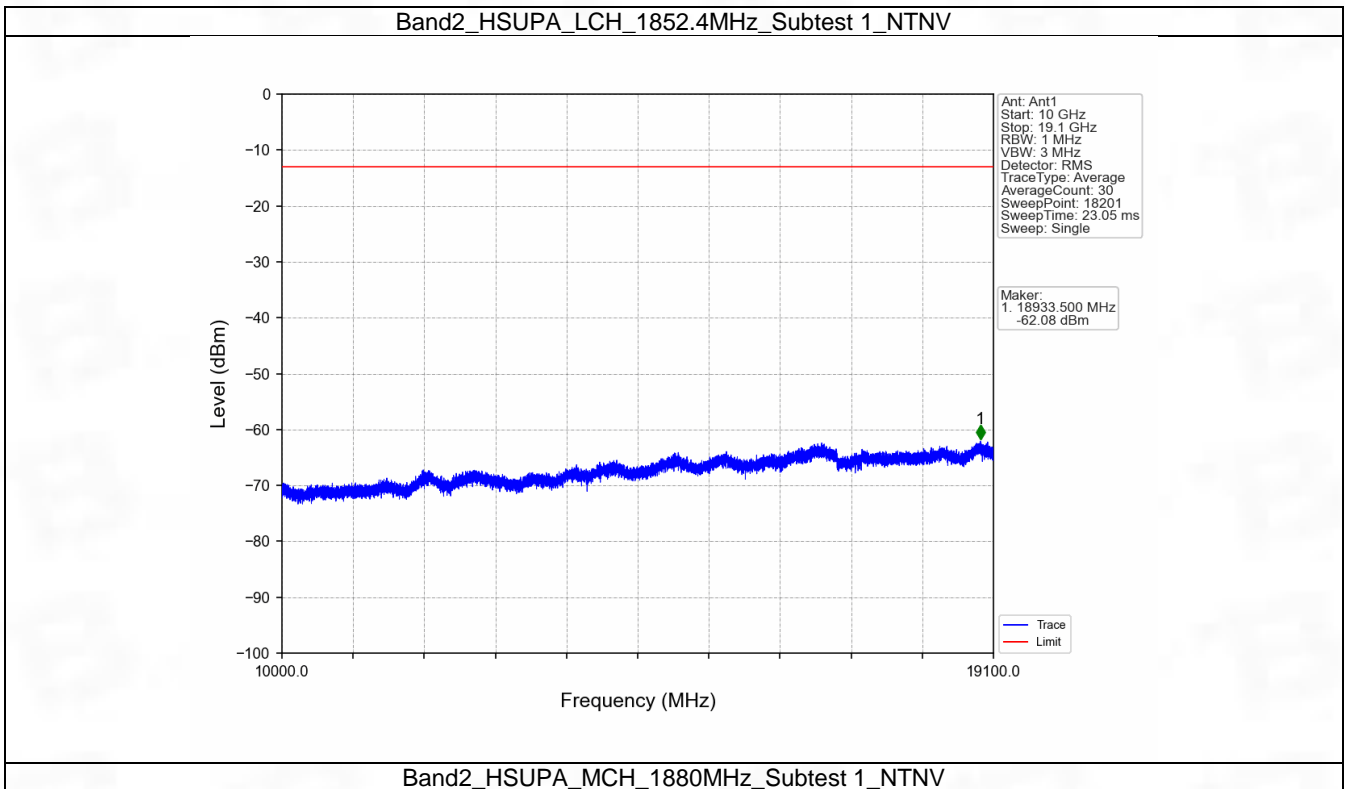
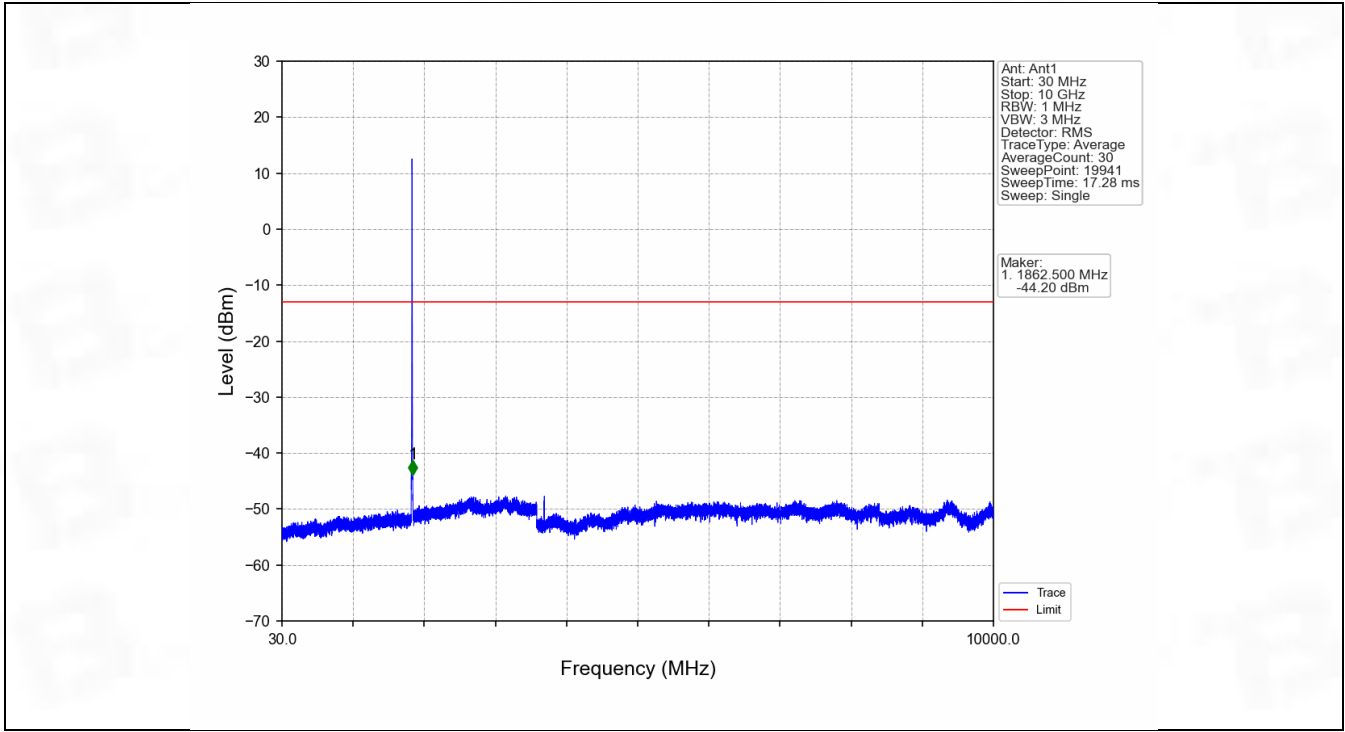


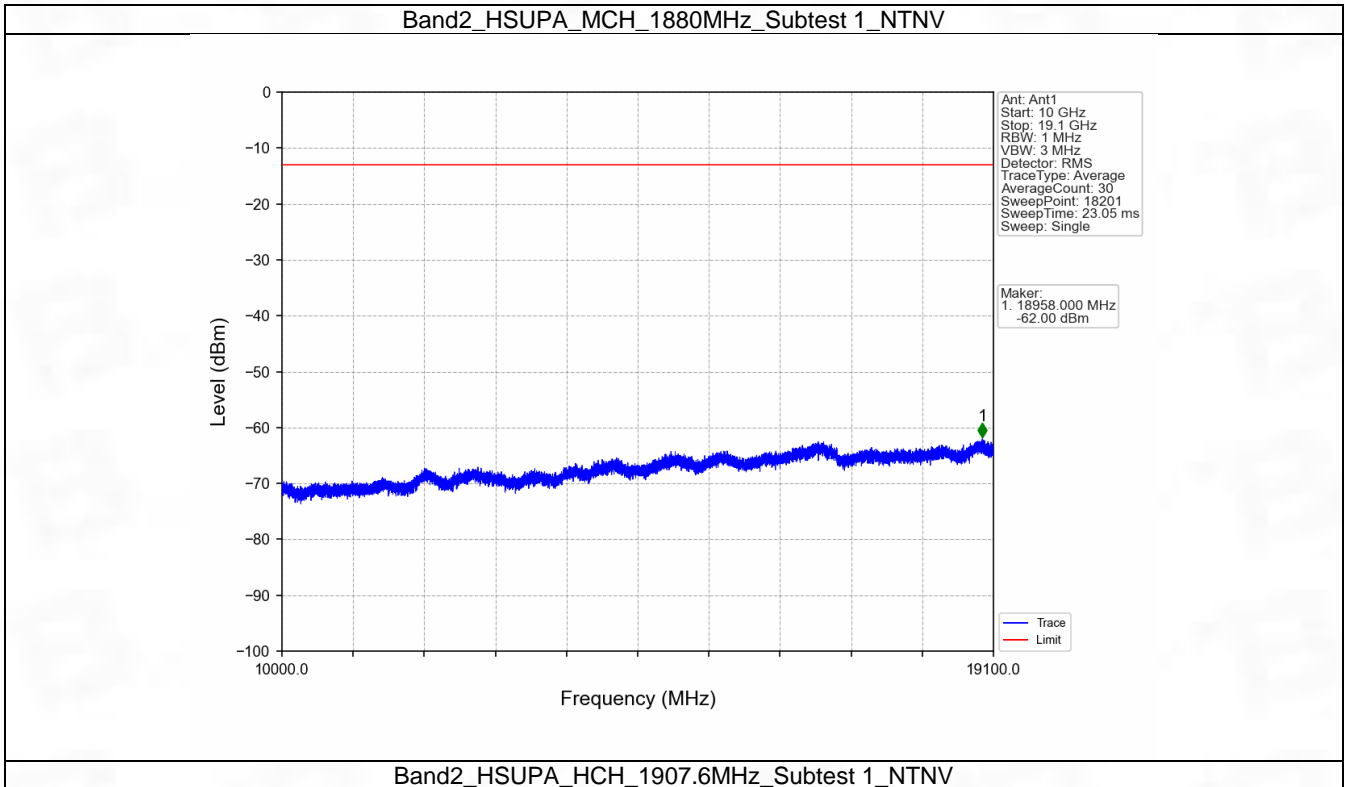
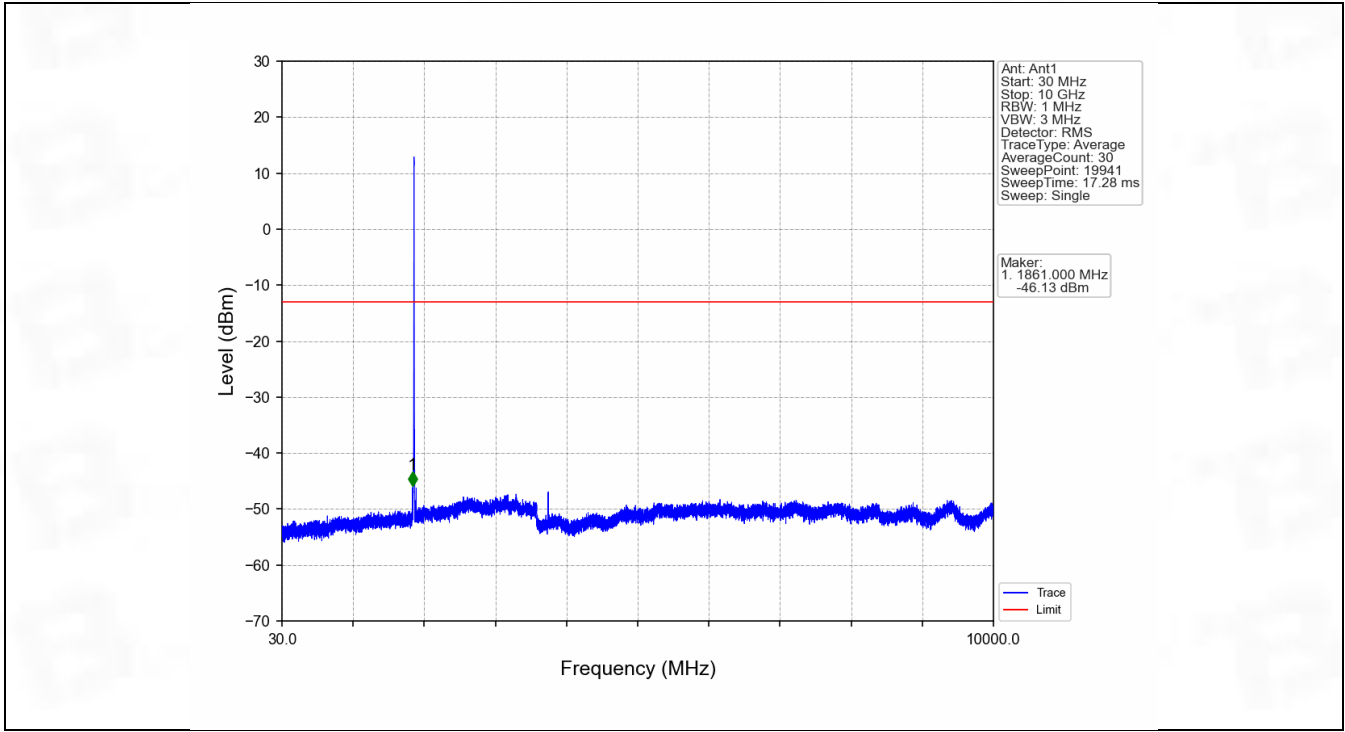
Band2\_HSDPA\_MCH\_1880MHz\_Subtest 1\_NTNV

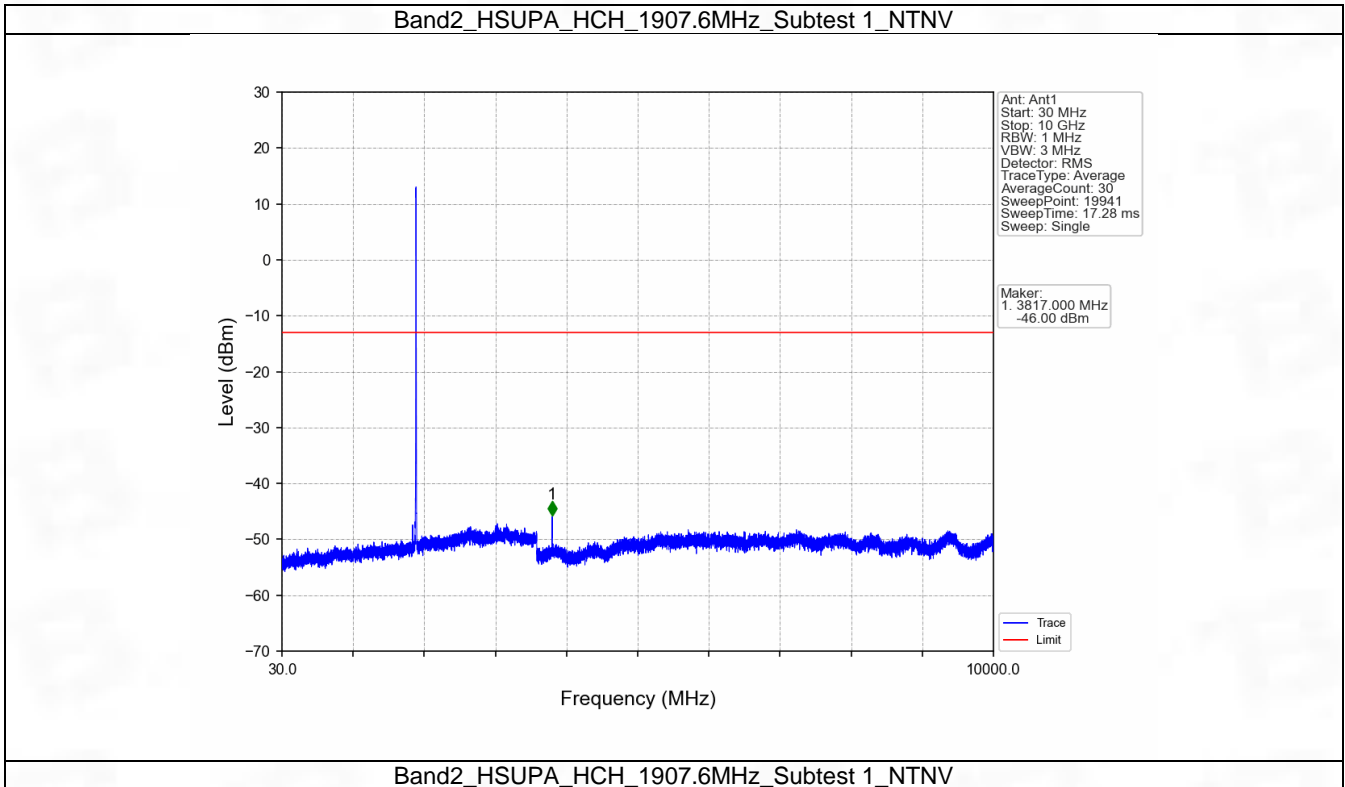
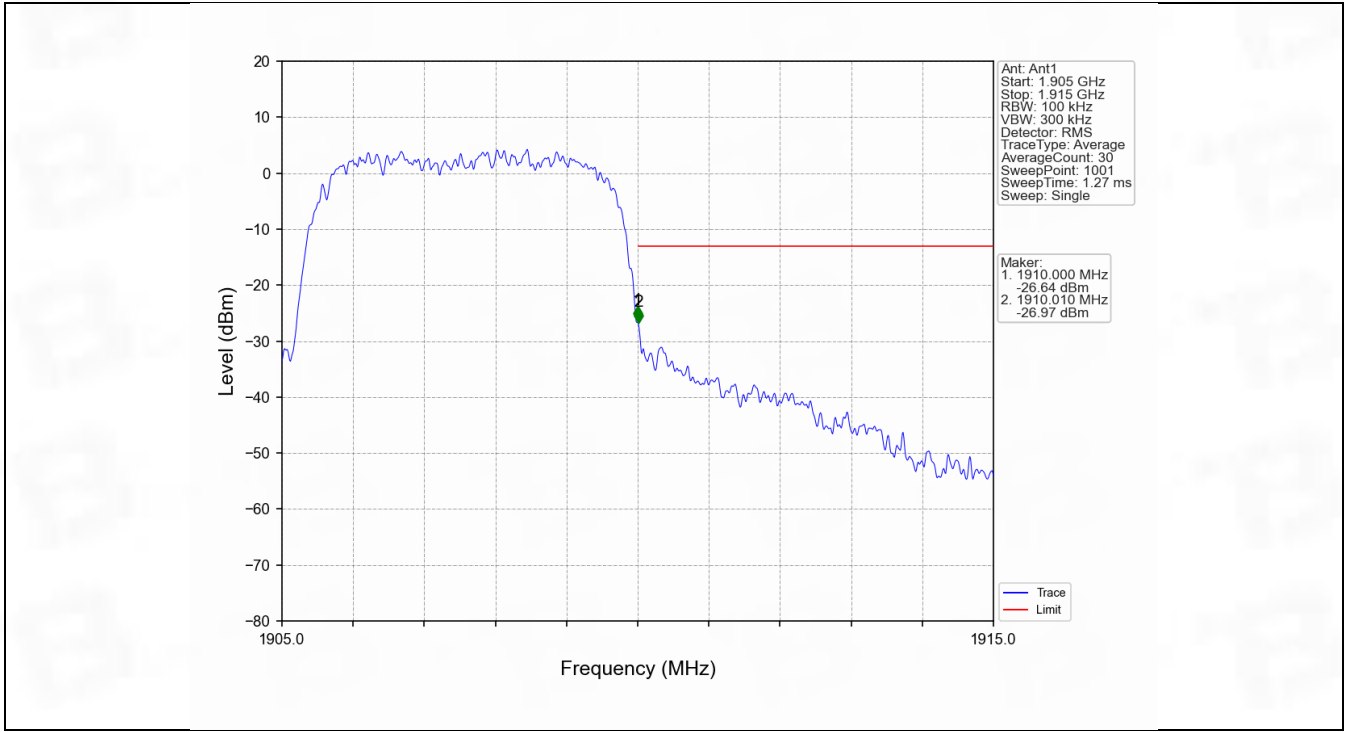




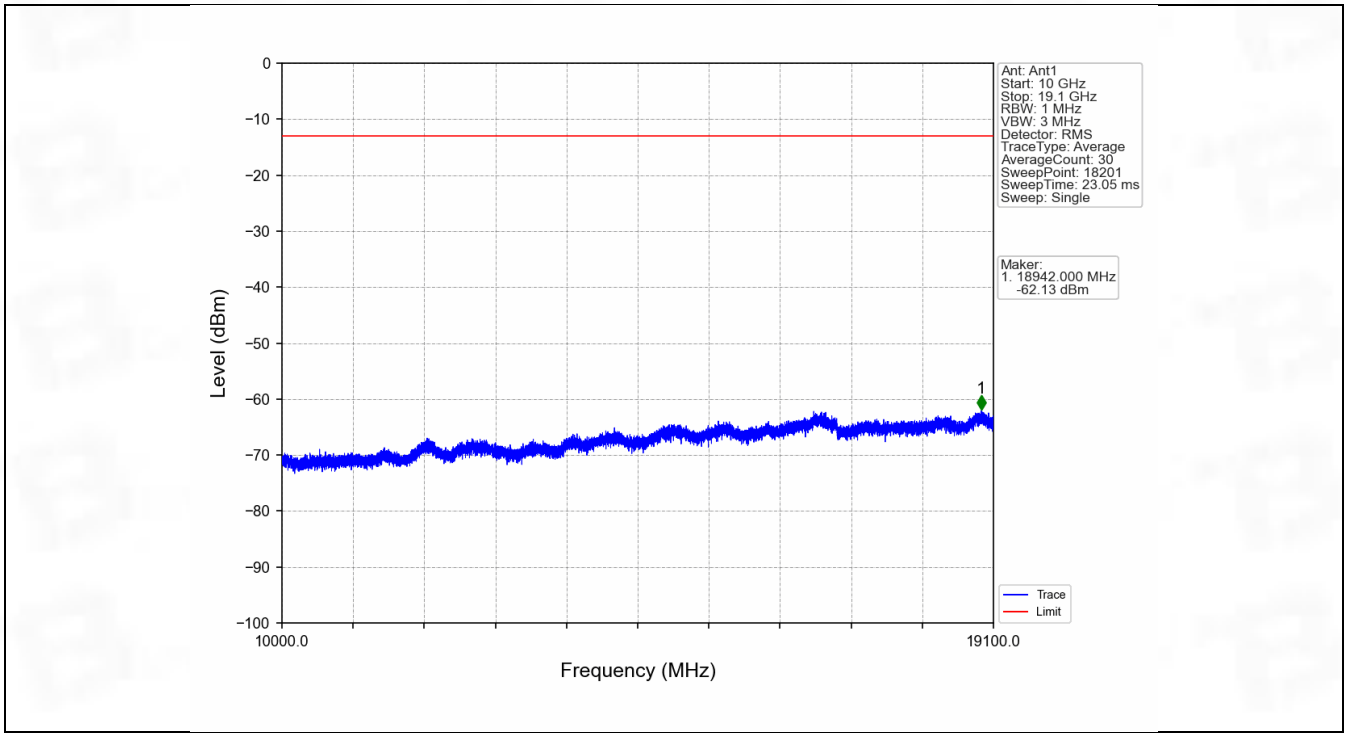












## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
2	3.84	1852.4	1907.6	0.1361	0.0094	ppm	4M18F9W	24E	21.34

### 7.2 Form731\_EIRP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power

				(W)					(dBm)
2	3.84	1852.4	1907.6	0.1483	0.0094	ppm	4M18F9W	24E	21.71