

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

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## 4.3 PSD

### 4.3.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	-7.41	-8.37	-5.09	/	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	-7.88	-8.65	-5.46	/	Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	-10.11	-10.69	-7.92	/	Pass



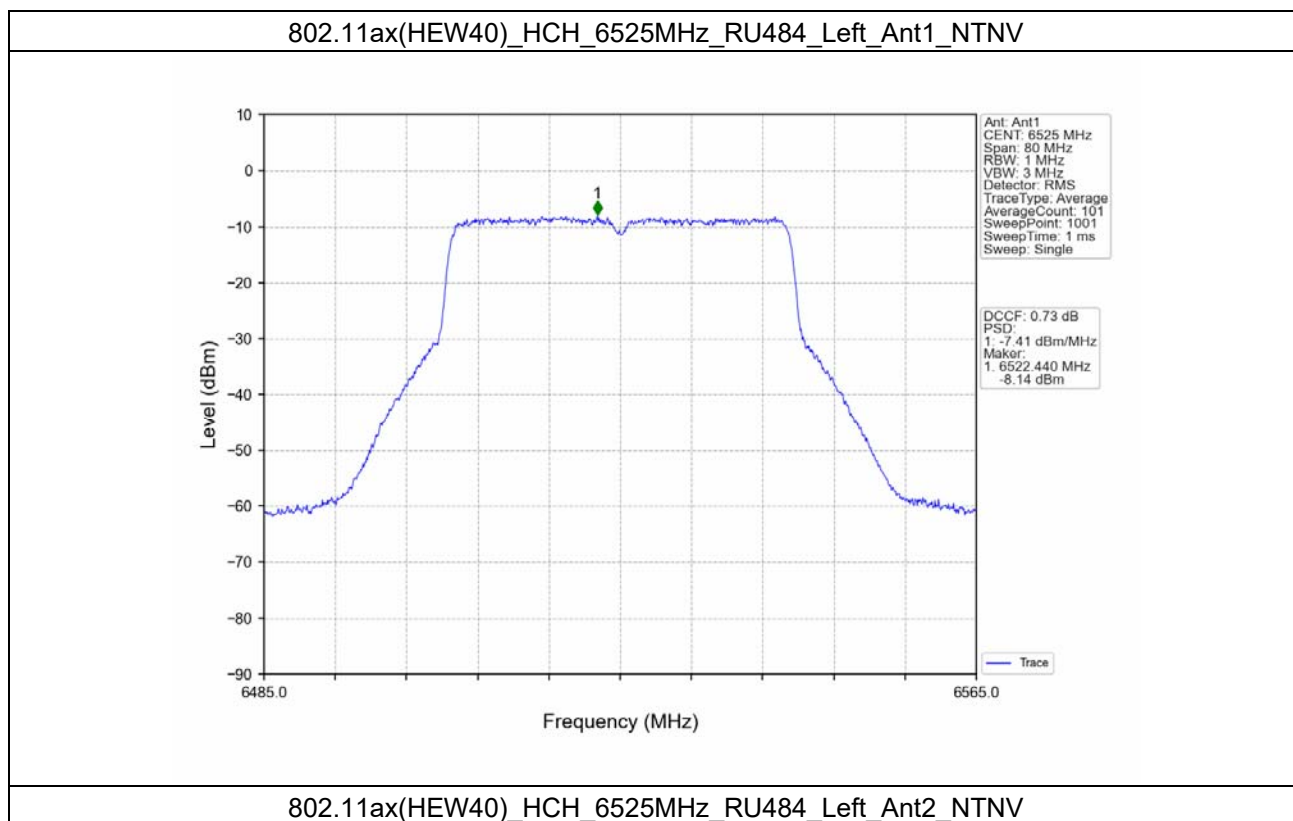
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### 4.3.2 Test Graph



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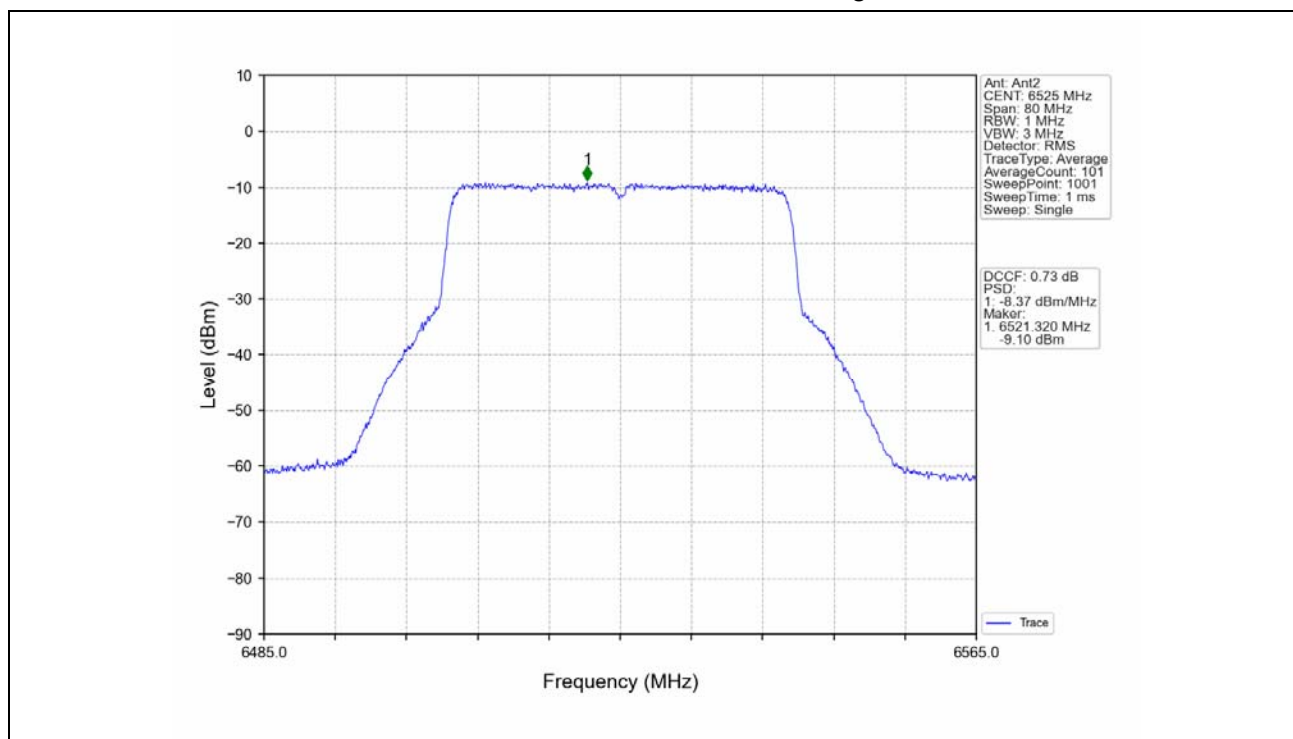
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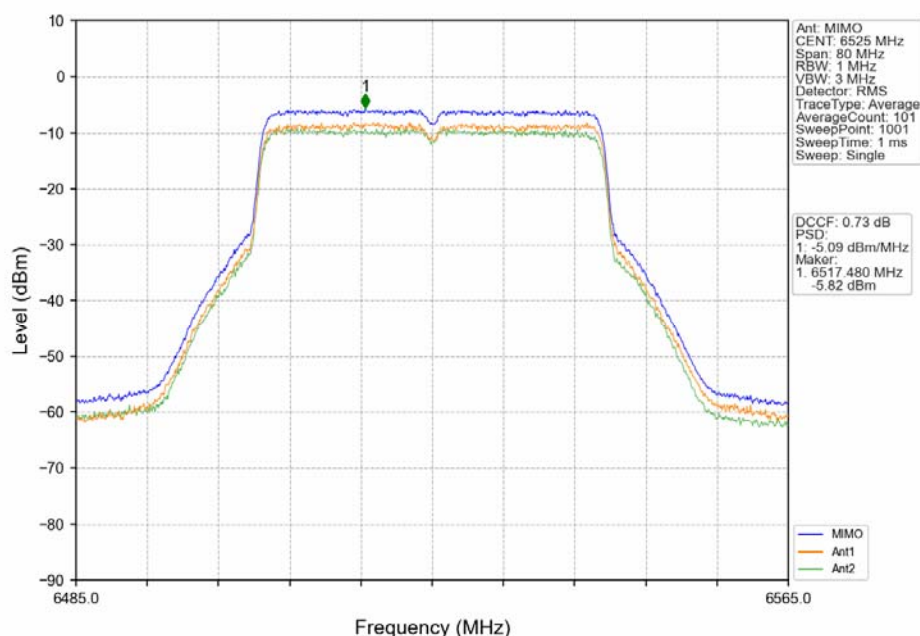
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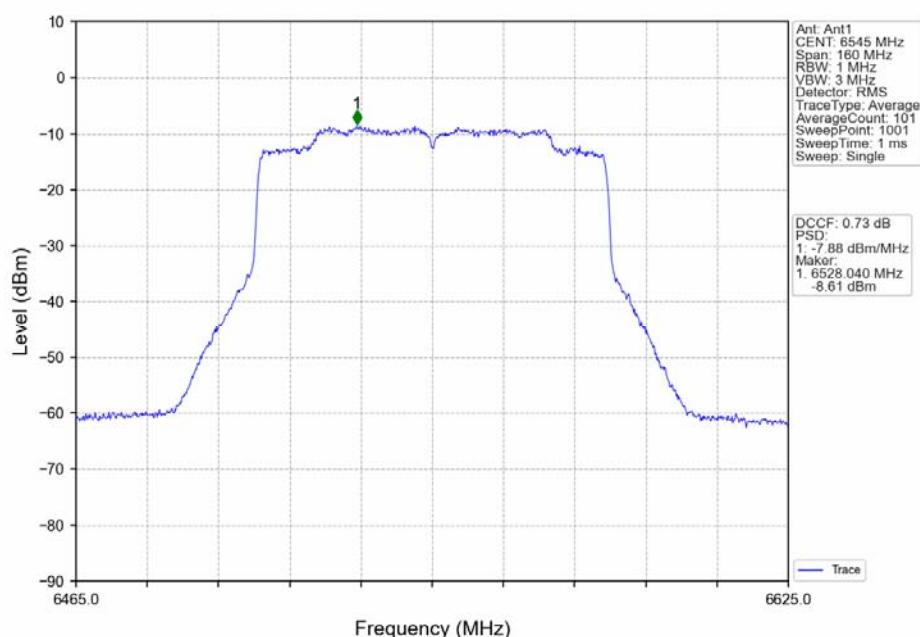
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### 802.11ax(HEW40)\_HCH\_6525MHz\_RU484\_Left\_MIMO\_NTNV

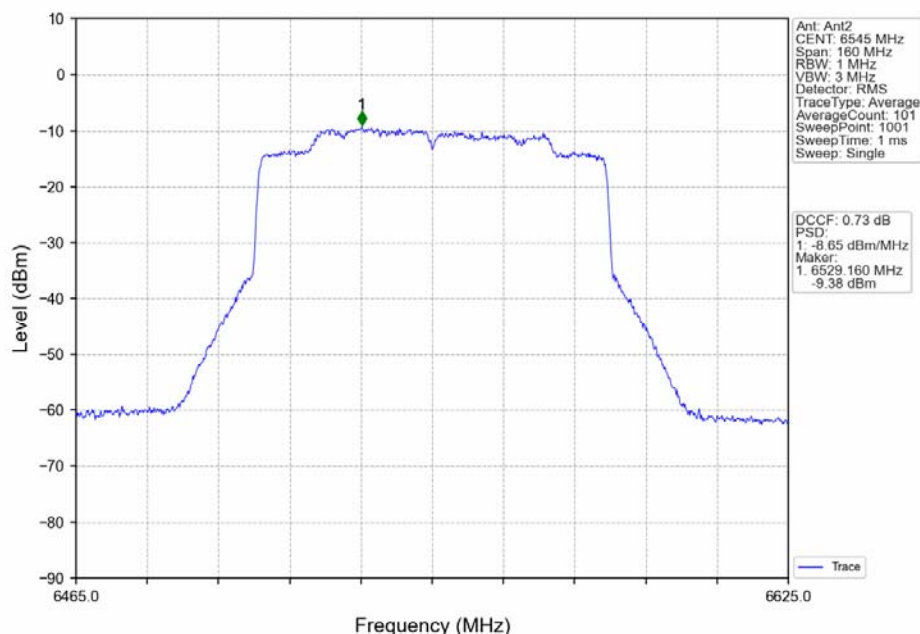


### 802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_Ant1\_NTNV

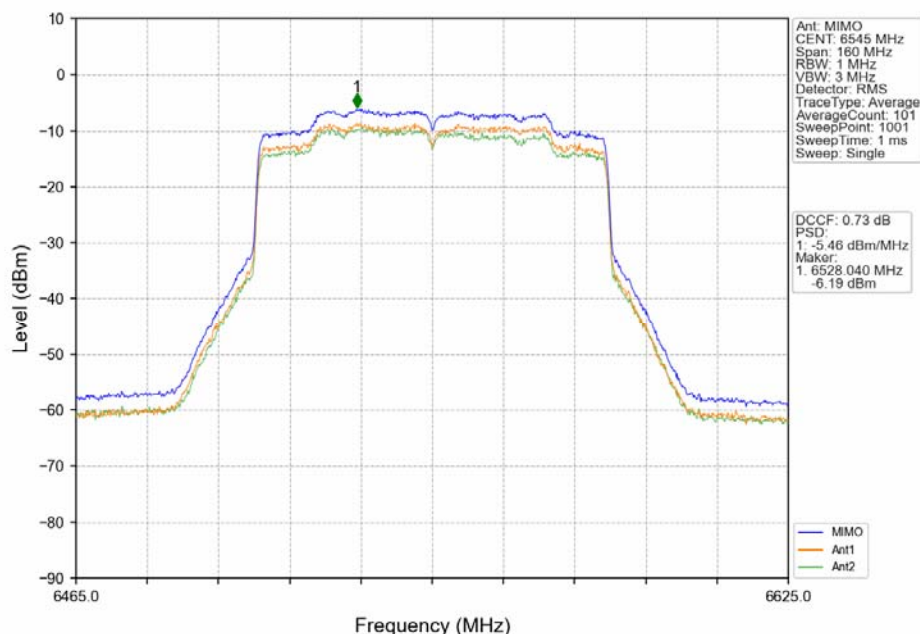




802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_Ant2\_NTNV



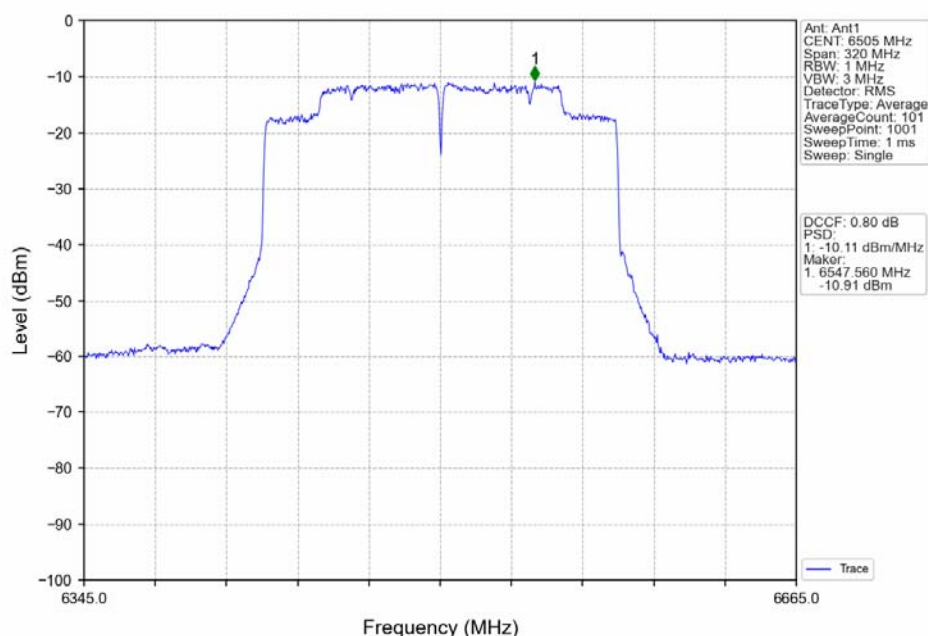
802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_MIMO\_NTNV



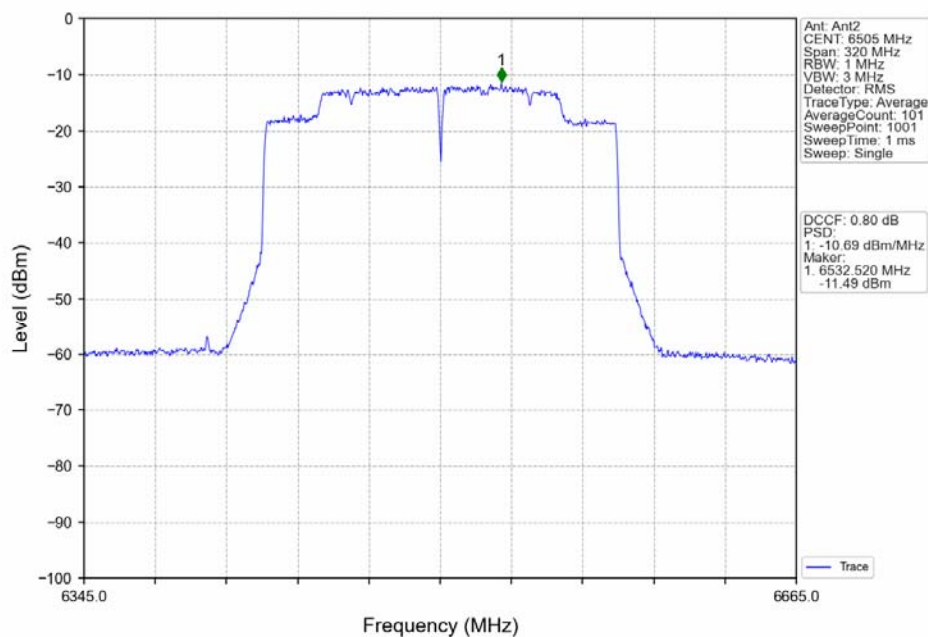
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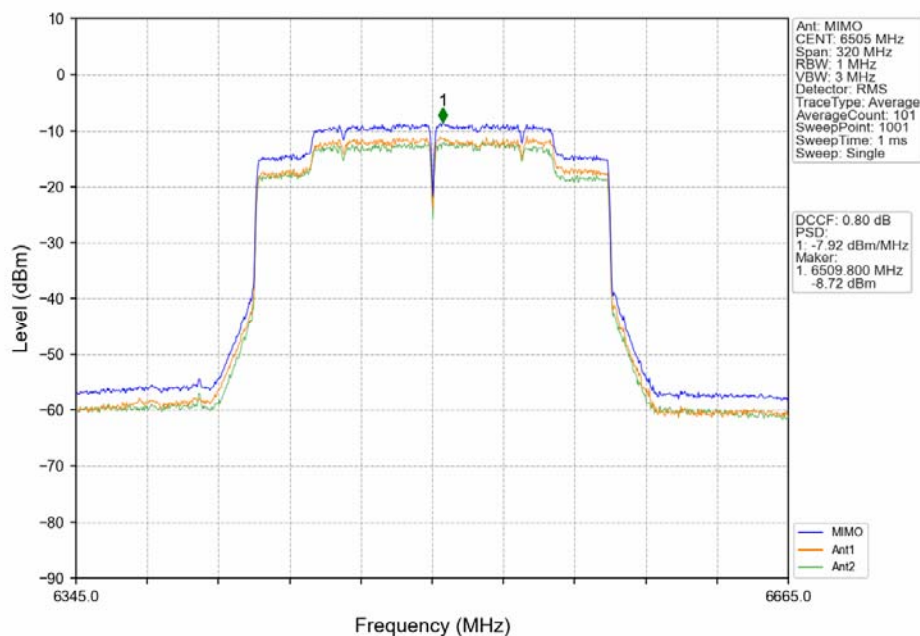
### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_Ant1\_NTNV



### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_Ant2\_NTNV



### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_MIMO\_NTNV



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## 4.4 E.I.R.PSD

### 4.4.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	-4.15	-4.13	-1.13	<=-1	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	-4.62	-4.41	-1.50	<=-1	Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	-6.85	-6.45	-3.64	<=-1	Pass



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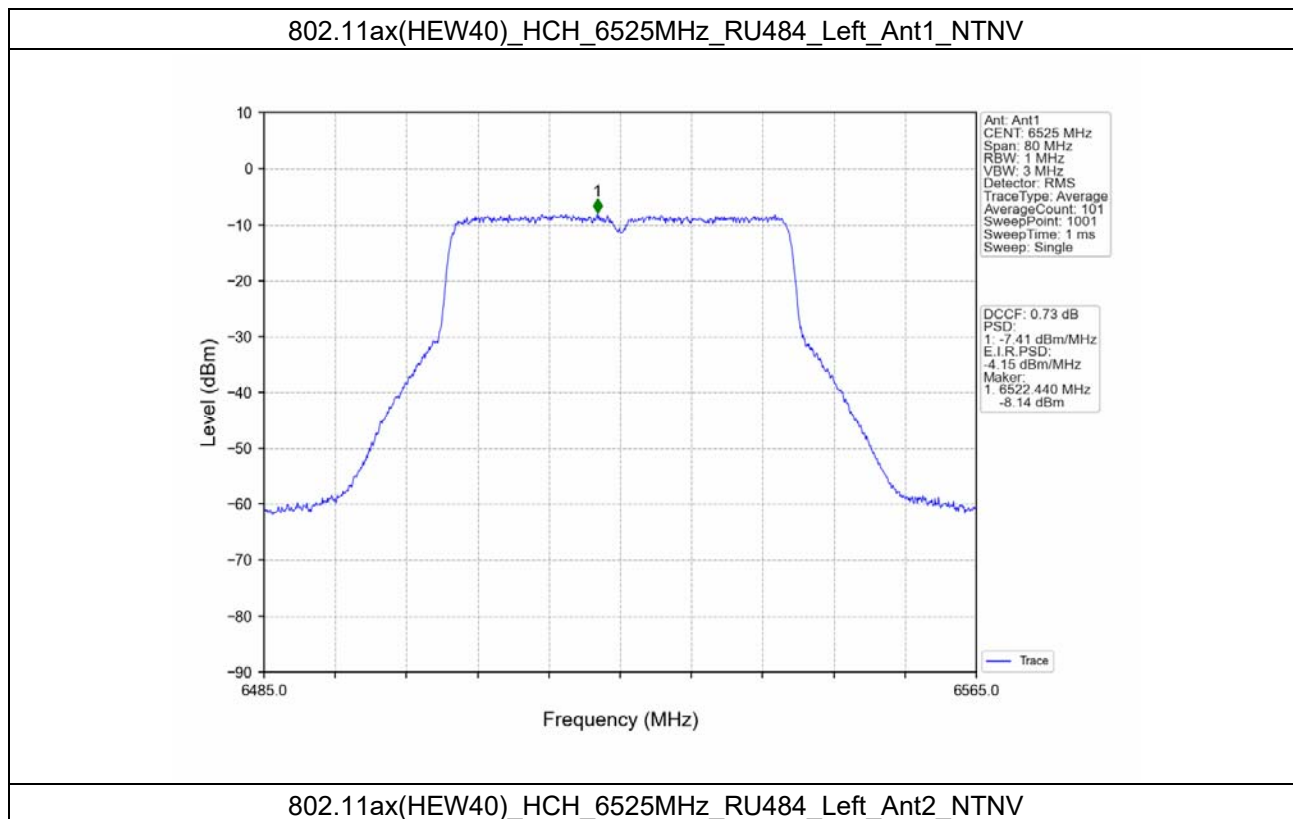
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### 4.4.2 Test Graph



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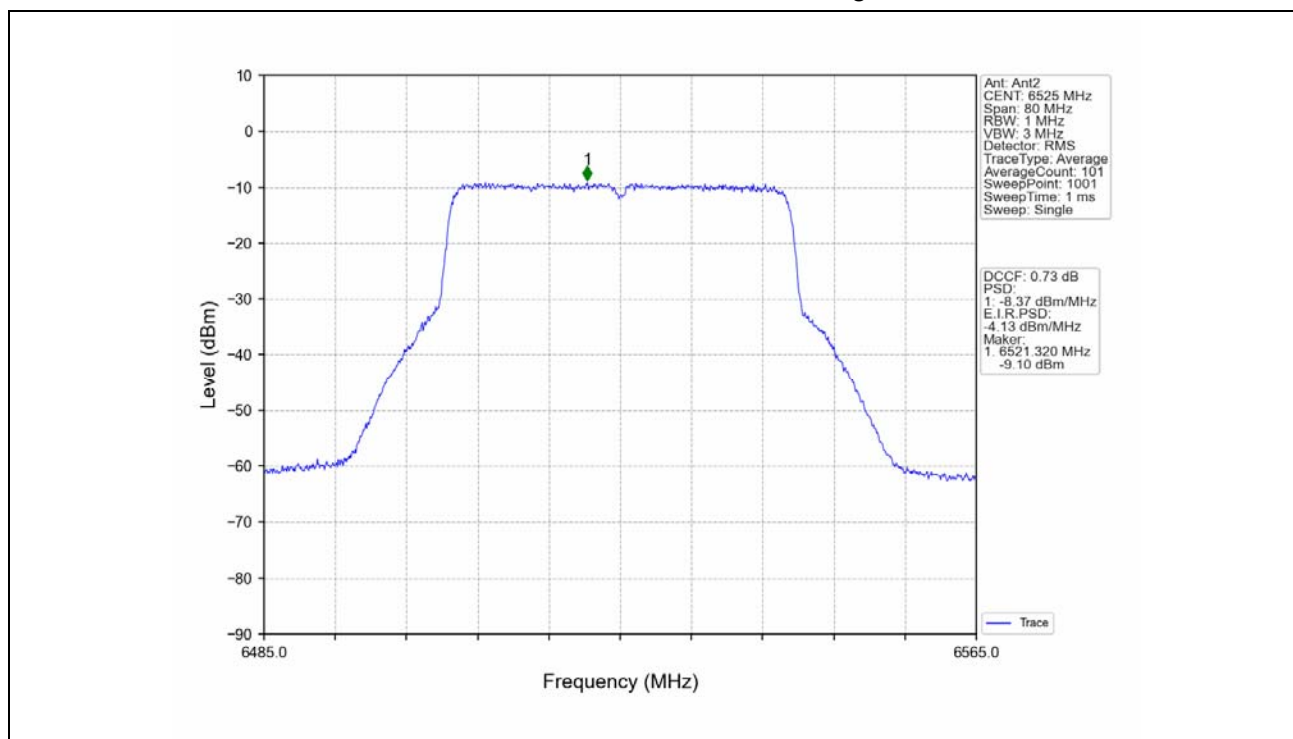
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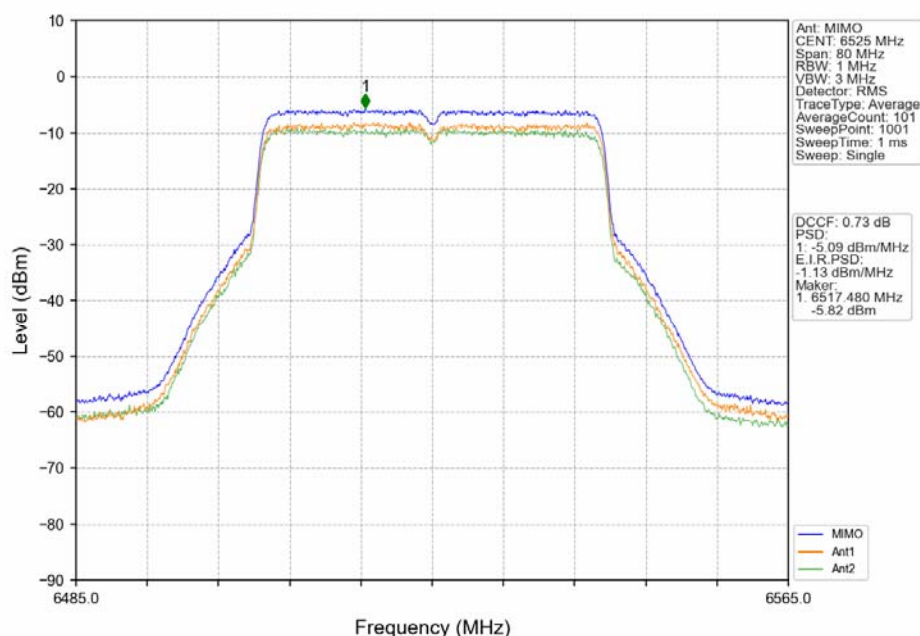
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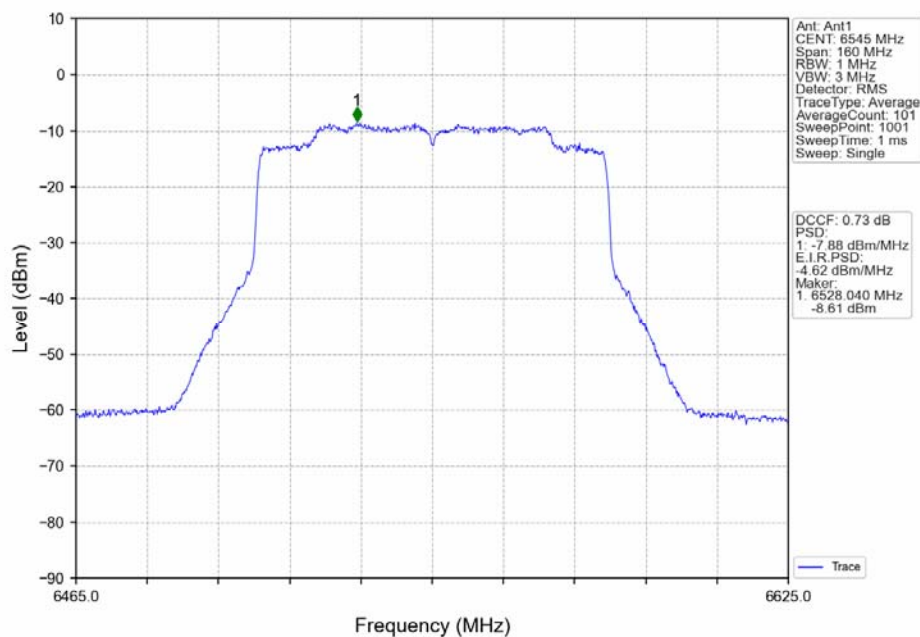
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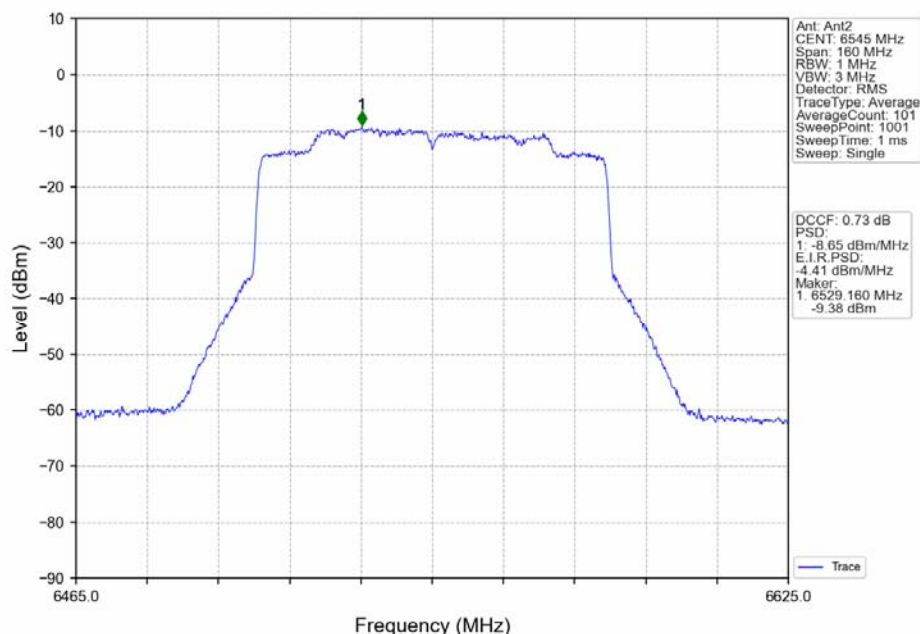
### 802.11ax(HEW40)\_HCH\_6525MHz\_RU484\_Left\_MIMO\_NTNV



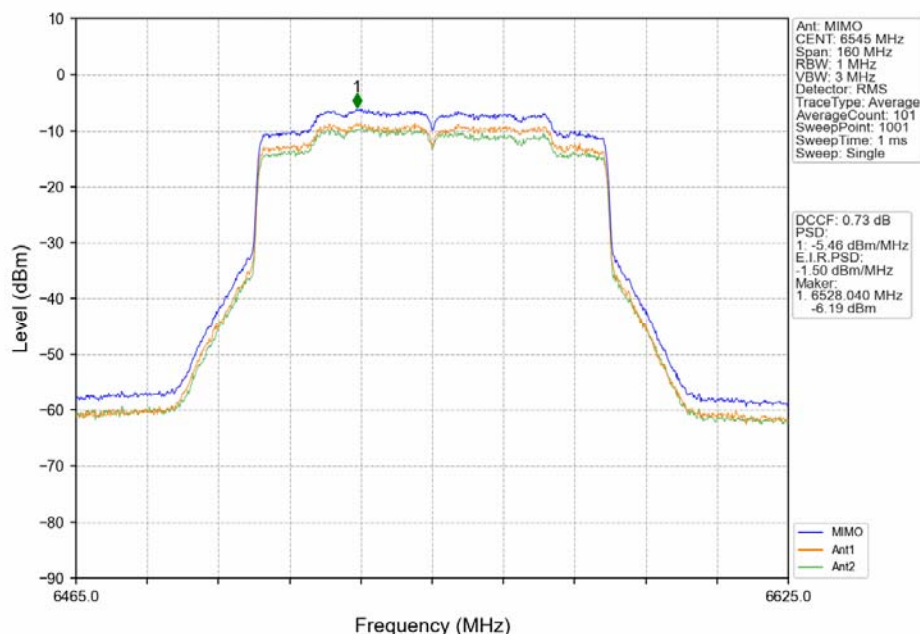
### 802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_Ant1\_NTNV



802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_Ant2\_NTNV



802.11ax(HEW80)\_HCH\_6545MHz\_RU996\_Left\_MIMO\_NTNV

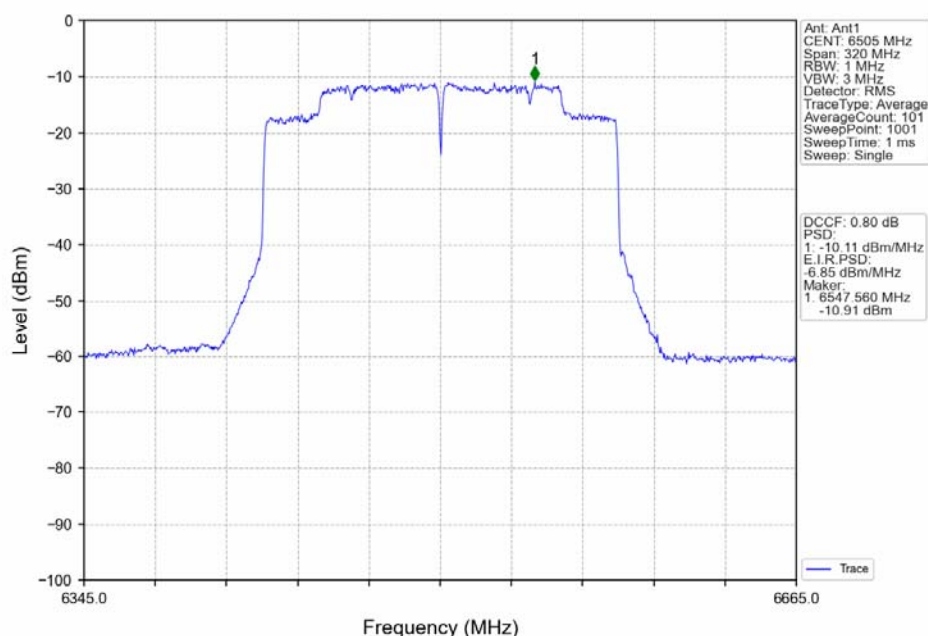


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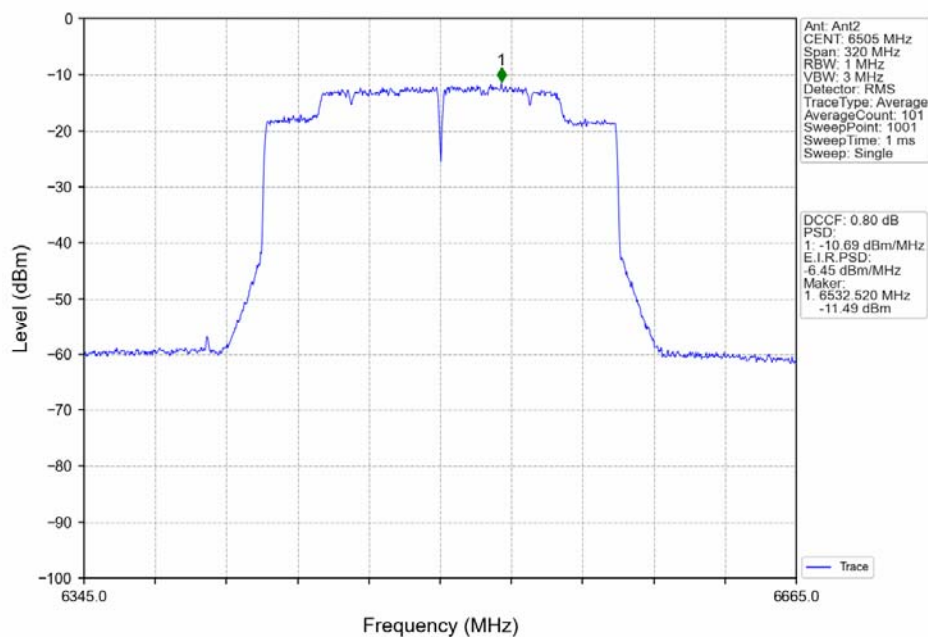
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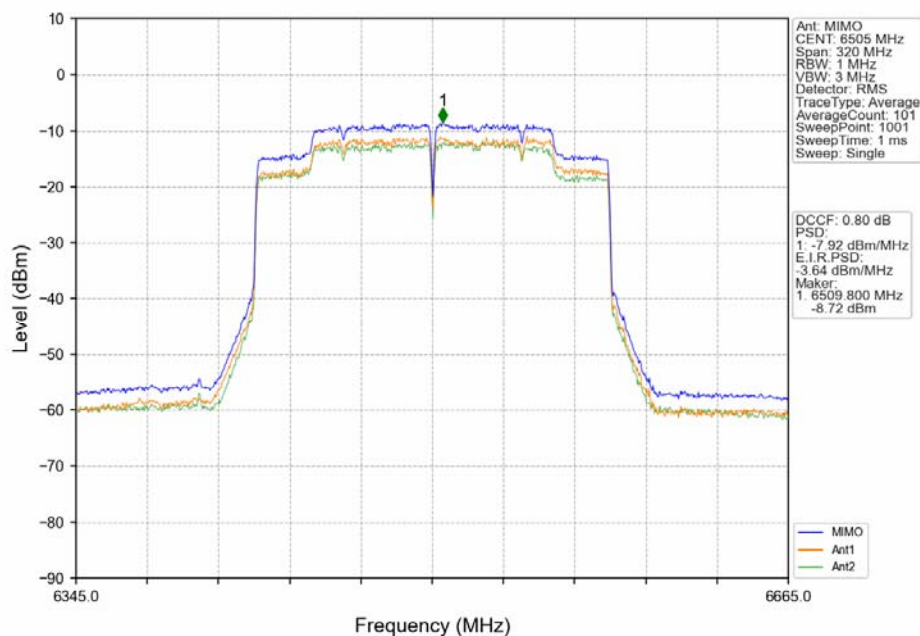
### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_Ant1\_NTNV



### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_Ant2\_NTNV



### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_MIMO\_NTNV



### 5. Frequency Stability

#### 5.1 Ant1

##### 5.1.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	20	102	6874.980	6525 to 7125	Pass
							120	6875.060	6525 to 7125	Pass
							138	6874.920	6525 to 7125	Pass
						-30	120	6874.920	6525 to 7125	Pass
						-20	120	6874.940	6525 to 7125	Pass
						-10	120	6875.020	6525 to 7125	Pass
						0	120	6874.920	6525 to 7125	Pass
						10	120	6874.980	6525 to 7125	Pass
						30	120	6874.960	6525 to 7125	Pass
						40	120	6874.940	6525 to 7125	Pass
						50	120	6875.040	6525 to 7125	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	20	102	6885.080	6525 to 7125	Pass
							120	6885.040	6525 to 7125	Pass
							138	6885.080	6525 to 7125	Pass
						-30	120	6885.000	6525 to 7125	Pass
						-20	120	6885.040	6525 to 7125	Pass
						-10	120	6885.000	6525 to	Pass



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						0	120	6825.075	6525 to 7125	Pass
						10	120	6825.000	6525 to 7125	Pass
						30	120	6825.000	6525 to 7125	Pass
						40	120	6825.075	6525 to 7125	Pass
						50	120	6824.925	6525 to 7125	Pass

## 5.2 Ant1

### 5.2.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	20	102	6525.080	6425 to 6875	Pass
							120	6525.040	6425 to 6875	Pass
							138	6525.040	6425 to 6875	Pass
						-30	120	6525.040	6425 to 6875	Pass
						-20	120	6525.040	6425 to 6875	Pass
						-10	120	6525.000	6425 to 6875	Pass
						0	120	6525.000	6425 to 6875	Pass
						10	120	6525.080	6425 to 6875	Pass
						30	120	6525.080	6425 to 6875	Pass
						40	120	6525.080	6425 to 6875	Pass
						50	120	6525.040	6425 to 6875	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	20	102	6545.000	6425 to 6875	Pass
							120	6545.075	6425 to 6875	Pass



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							138	6545.075	6425 to 6875	Pass
						-30	120	6545.000	6425 to 6875	Pass
						-20	120	6545.000	6425 to 6875	Pass
						-10	120	6545.075	6425 to 6875	Pass
						0	120	6545.075	6425 to 6875	Pass
						10	120	6545.000	6425 to 6875	Pass
						30	120	6545.000	6425 to 6875	Pass
						40	120	6545.075	6425 to 6875	Pass
						50	120	6545.000	6425 to 6875	Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	20	102	6505.000	6425 to 6875	Pass
							120	6504.625	6425 to 6875	Pass
							138	6505.300	6425 to 6875	Pass
						-30	120	6505.075	6425 to 6875	Pass
						-20	120	6505.000	6425 to 6875	Pass
						-10	120	6505.000	6425 to 6875	Pass
						0	120	6505.000	6425 to 6875	Pass
						10	120	6505.150	6425 to 6875	Pass
						30	120	6504.925	6425 to 6875	Pass
						40	120	6505.075	6425 to 6875	Pass
						50	120	6505.000	6425 to 6875	Pass

802.11ax  
(HEW160)

MIMO

6505

2xRU996

Left



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SZEMC-TRF-01 Rev. A/1

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## 6. Emission Mask

### 6.1 EMask

#### 6.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Test Result	Limit	Verdict
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	1	Refer To Test Graph		Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	1	Refer To Test Graph		Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	1	Refer To Test Graph		Pass
	802.11ax (HEW160)	MIMO	6825	2xRU996	Left	1	Refer To Test Graph		Pass



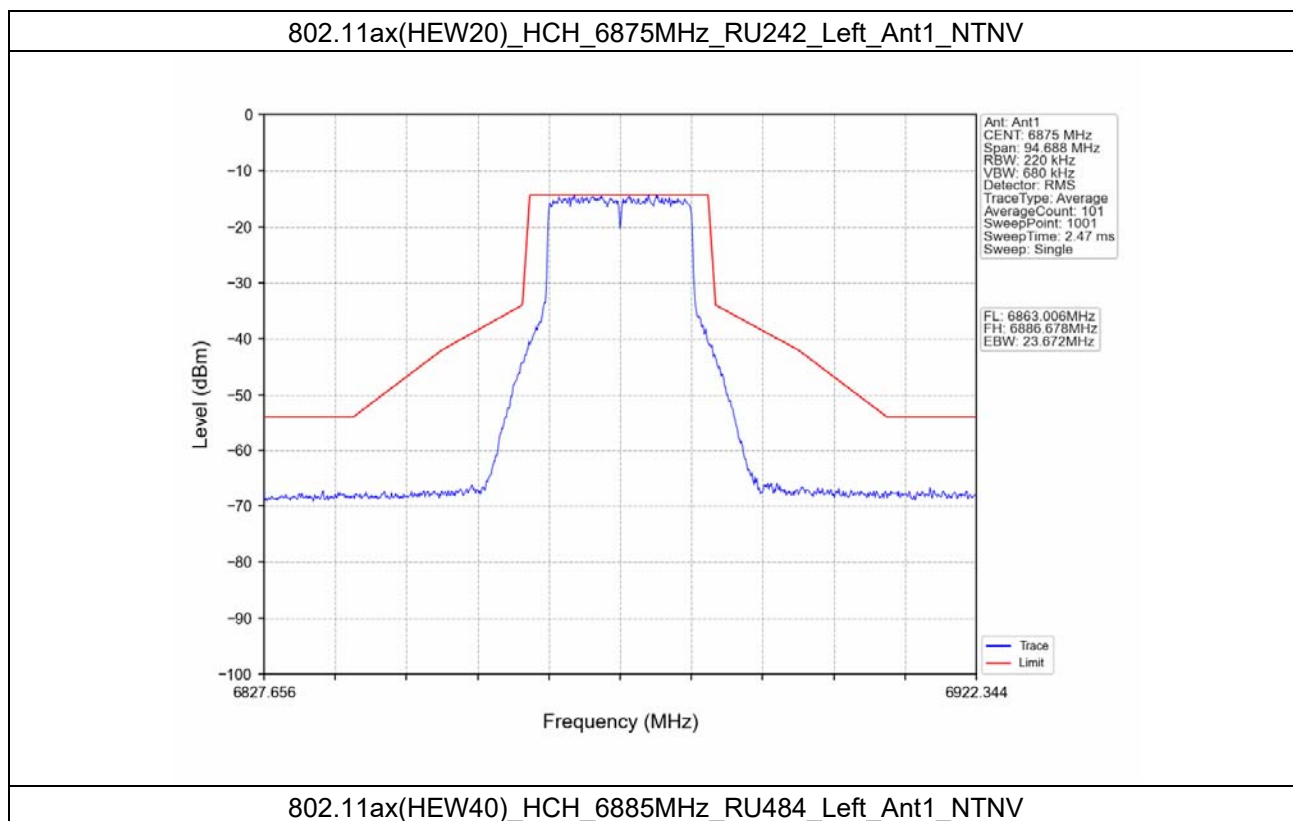
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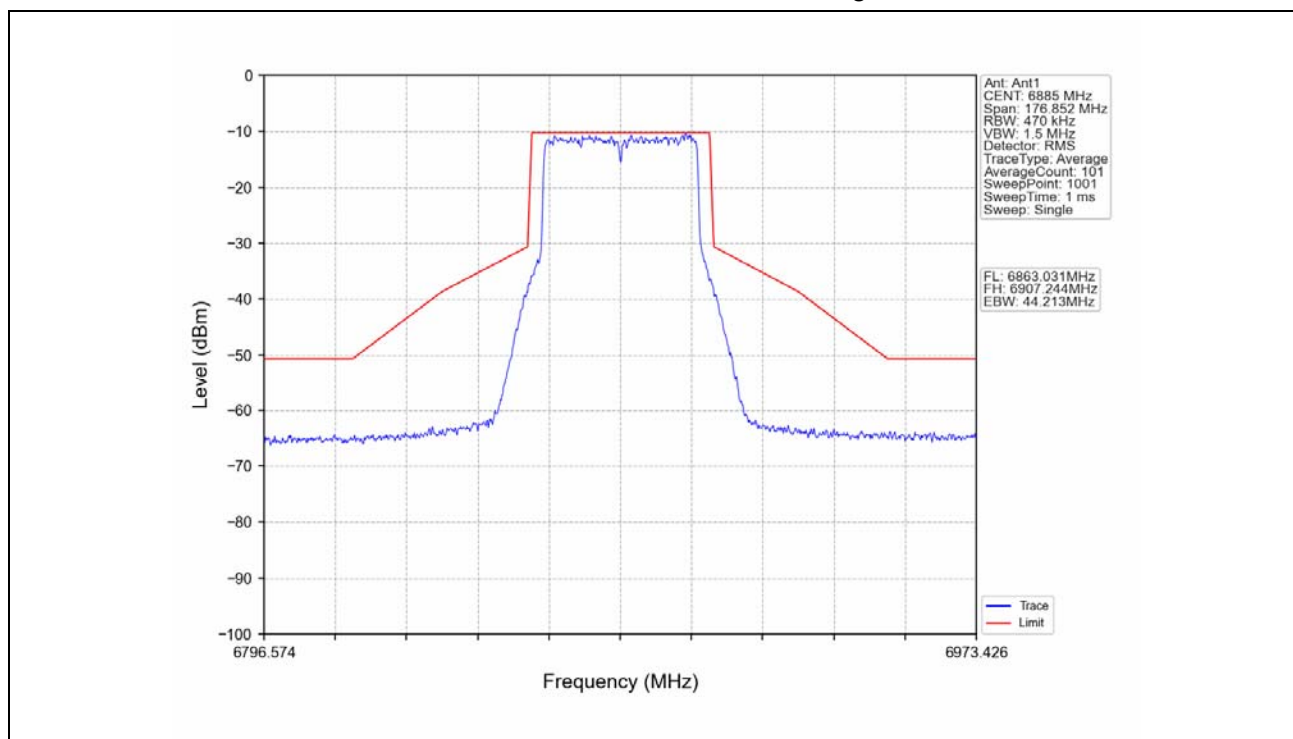
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### 6.1.2 Test Graph



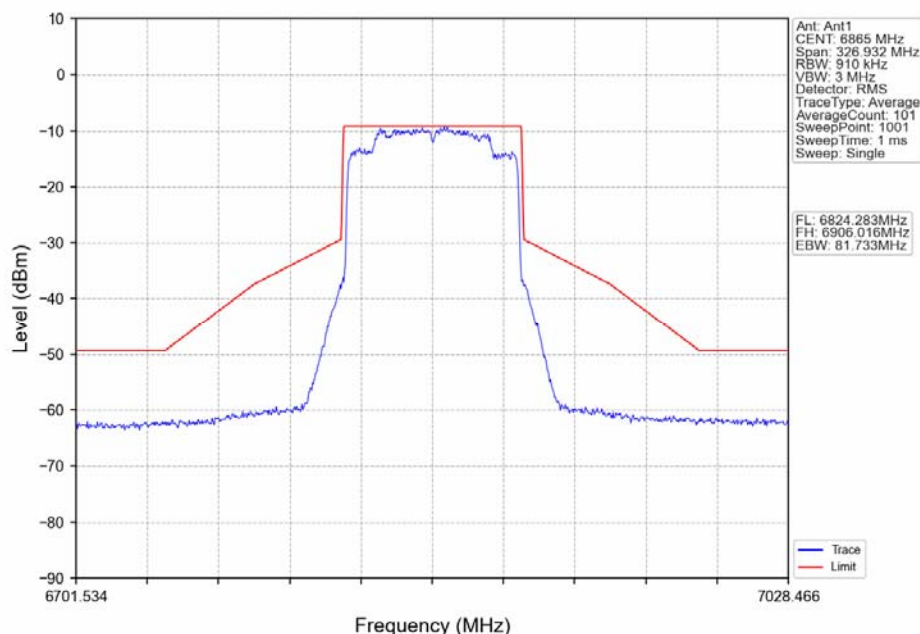




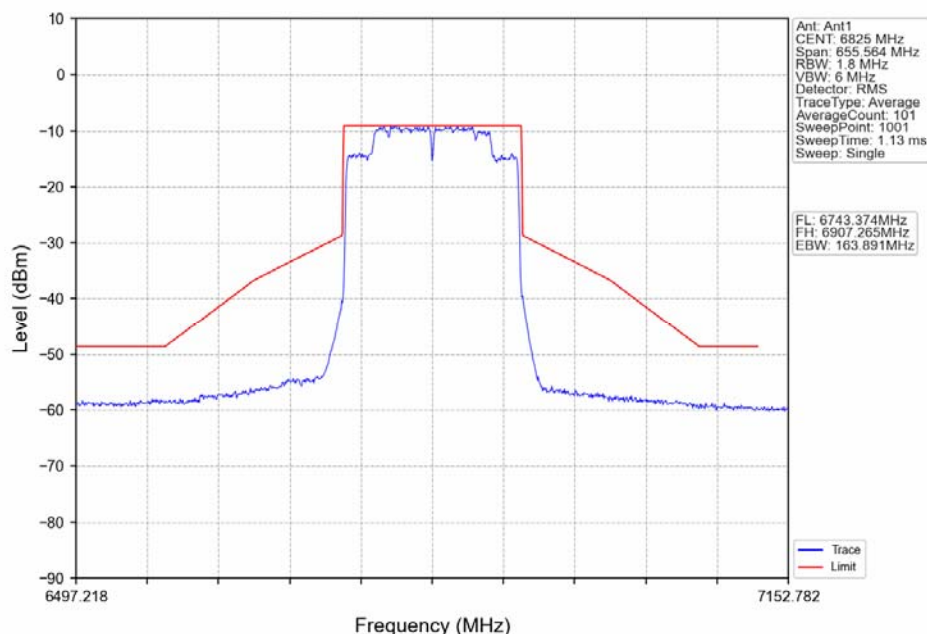
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802.11ax(HEW80)\_HCH\_6865MHz\_RU996\_Left\_Ant1\_NTNV



802.11ax(HEW160)\_HCH\_6825MHz\_2xRU996\_Left\_Ant1\_NTNV



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## 6.2 EMask

### 6.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Test Result	Limit	Verdict
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	1	Refer To Test Graph		Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	1	Refer To Test Graph		Pass
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	1	Refer To Test Graph		Pass



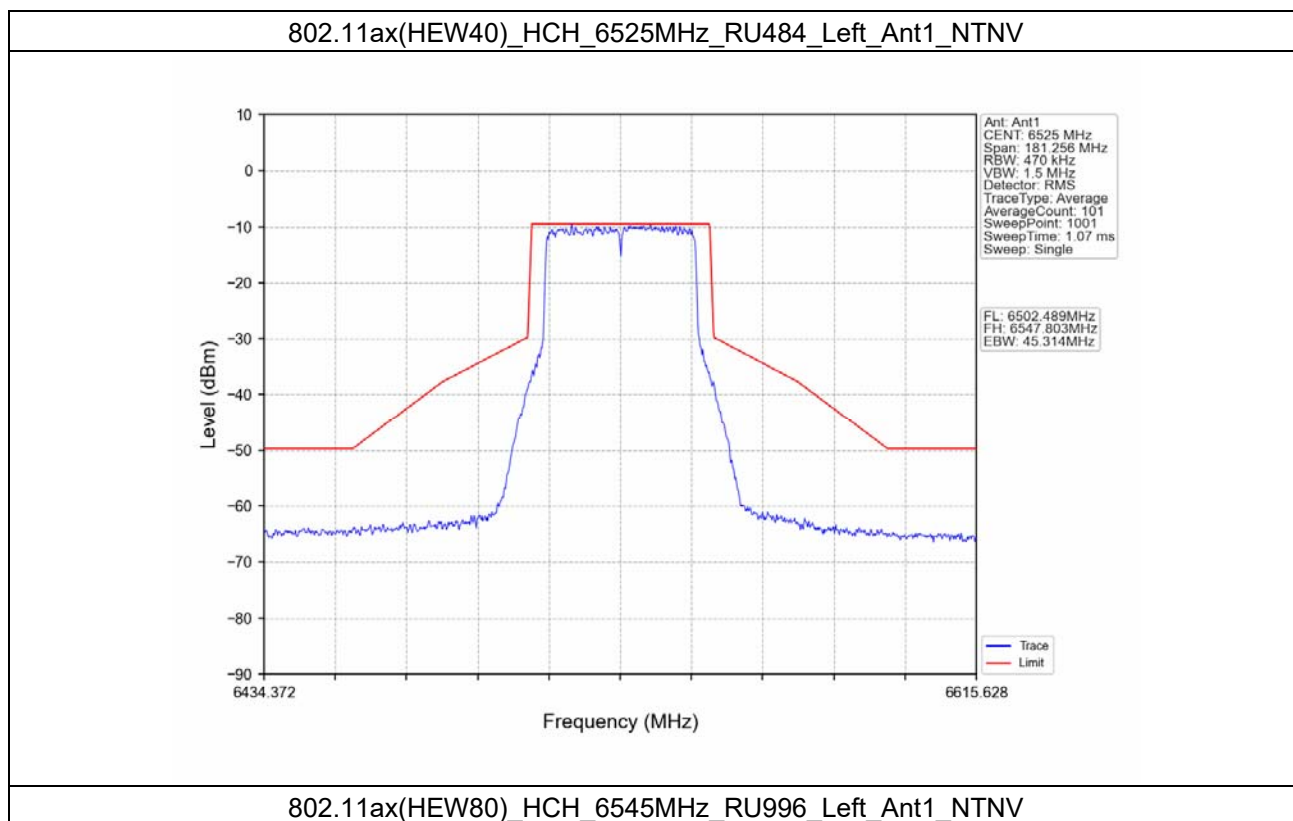
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### 6.2.2 Test Graph



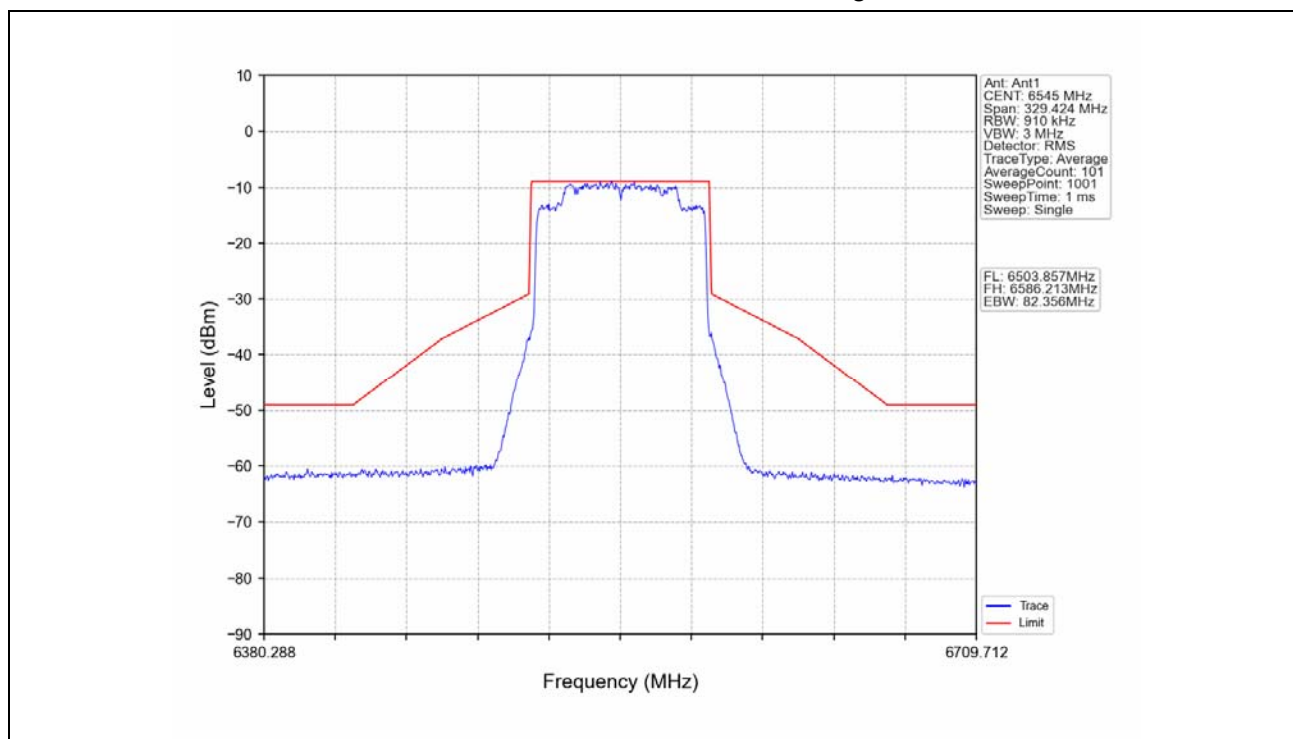


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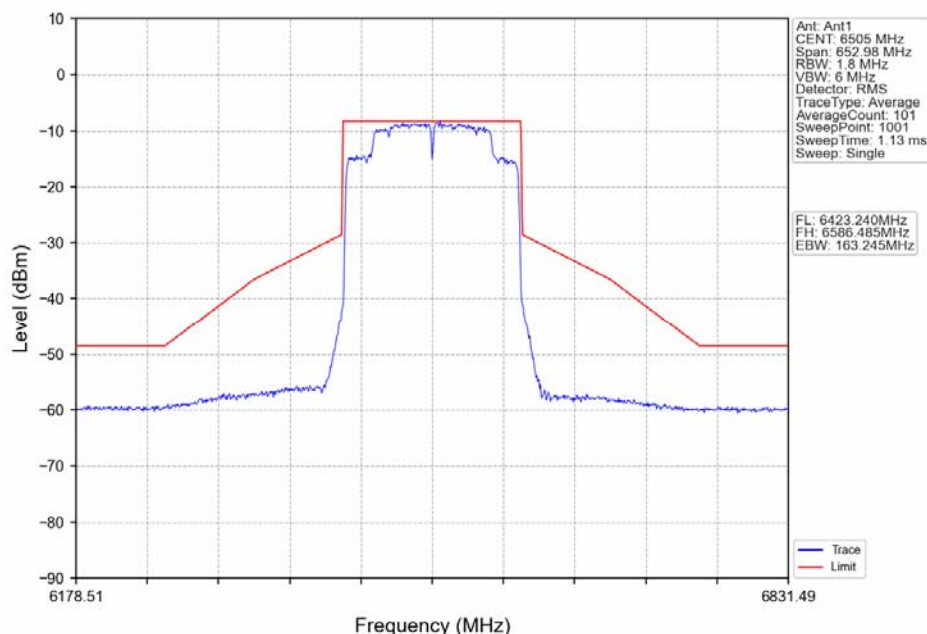
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### 802.11ax(HEW160)\_HCH\_6505MHz\_2xRU996\_Left\_Ant1\_NTNV



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## 7. Contention Based Protocol

Final test modes are considering the operation frequency band and antenna gain as below:

Operation Frequency Band	Ant1 Lowest antenna gain(dBi)	Ant2 Lowest antenna gain(dBi)
U-NII-5	0.63	-0.81
U-NII-6	2.08	4.24
U-NII-7	0.48	1.57
U-NII-8	0.73	1.45

All operation frequency band were performed and the worst data record in the report.

### 1.1 CBP\_Ant2

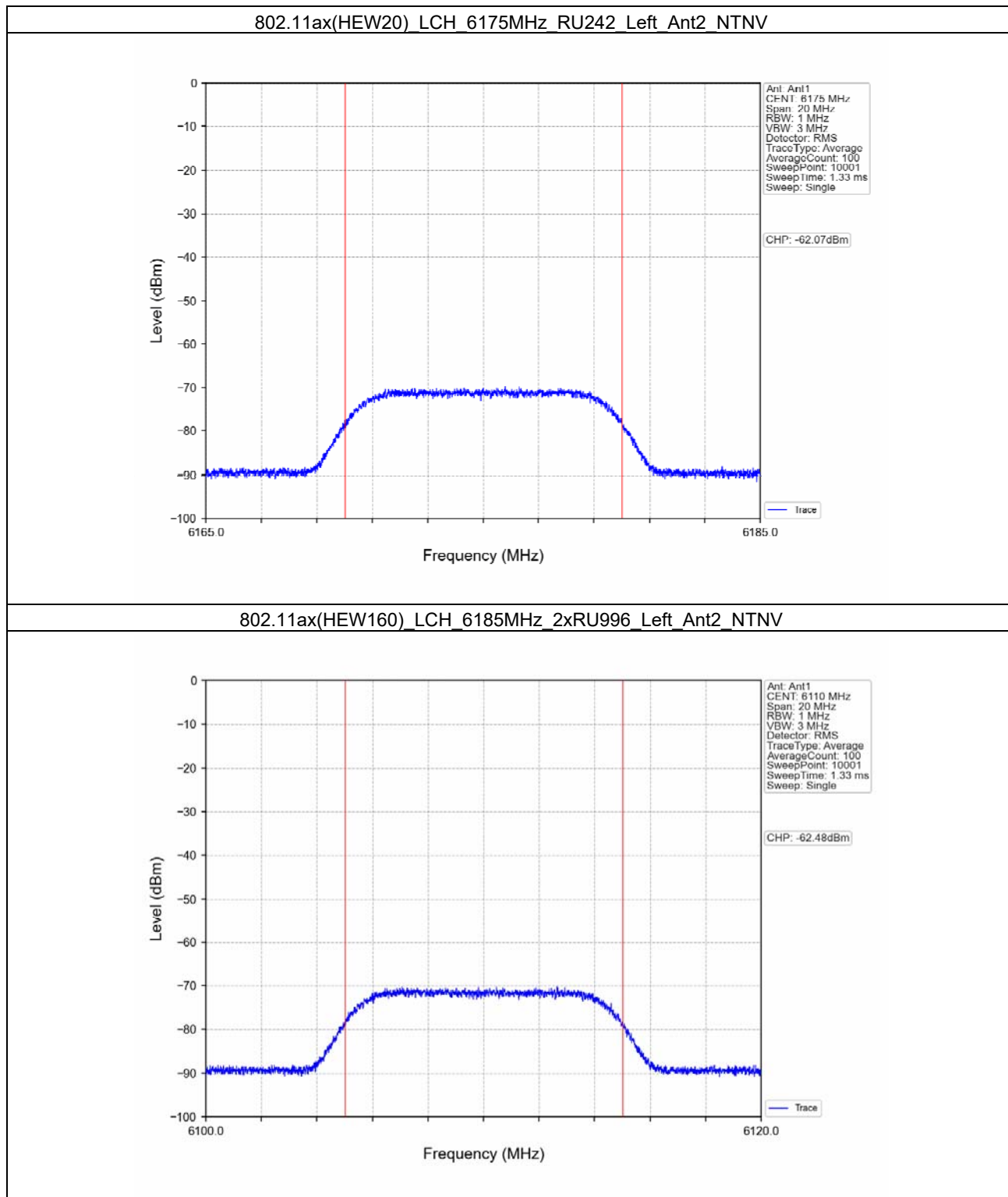
#### 1.1.1 Test Result

Ant2_NTNV									
Mode	TX Type	Freq (MHz)	Path Loss (dB)	Antenna gain (dBi)	Incumbent Frequency (MHz)	Injected AWGN Level (dBm)	Detected Level (dBm)		Verdict
							Adjusted Power	Limit	
802.11ax (HEW20)	SISO	6175	1.5	-0.81	6175.000	-64.38	-62.07	<=-62	Pass
802.11ax (HEW160)	SISO	6185	1.5	-0.81	6110.000	-64.79	-62.48	<=-62	Pass
					6185.000	-64.37	-62.06	<=-62	Pass
					6260.000	-64.37	-62.06	<=-62	Pass

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) - Antenna Gain (dBi)+ Path Loss (dB)



### 1.1.2 Test Graph



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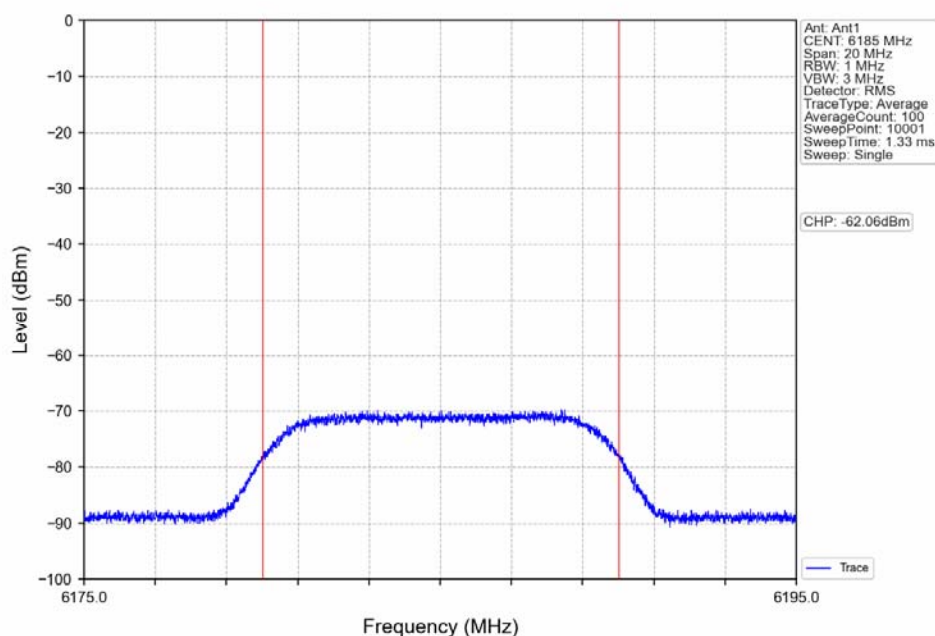
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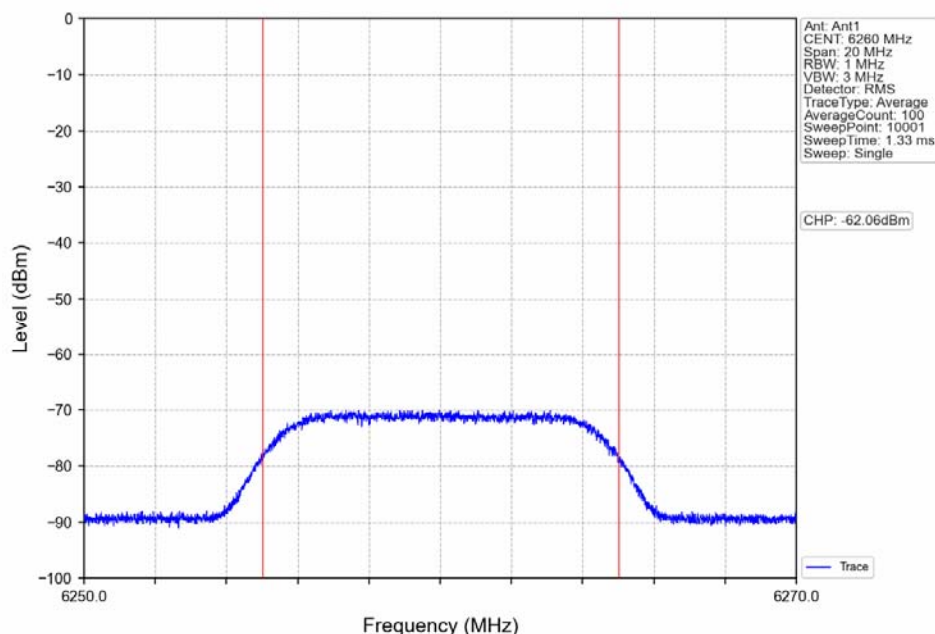
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802.11ax(HEW160) LCH 6185MHz 2xRU996 Left Ant2 NTV



802.11ax(HEW160) LCH 6185MHz 2xRU996 Left Ant2 NTV



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### 1.2 Data\_Ant2

#### 1.2.1 Test Result

Ant2_NTNV																		
Mode	TX Type	Freq (MHz)	RU	RU Pos	Incumbent Freq (MHz)	1	2	3	4	5	6	7	8	9	10	Detected Probability (%)		Verdict
																Result	Limit	
802.11ax (HEW20)	SISO	6175	RU242	Left	6175.000	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100	>=90	Pass
802.11ax (HEW160)	SISO	6185	2xRU996	Left	6110.000	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	90	>=90	Pass
					6185.000	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	90	>=90	Pass
					6260.000	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	90	>=90	Pass
Note1: CBP Detection Trials (Y=Detection, N=No Detection)																		



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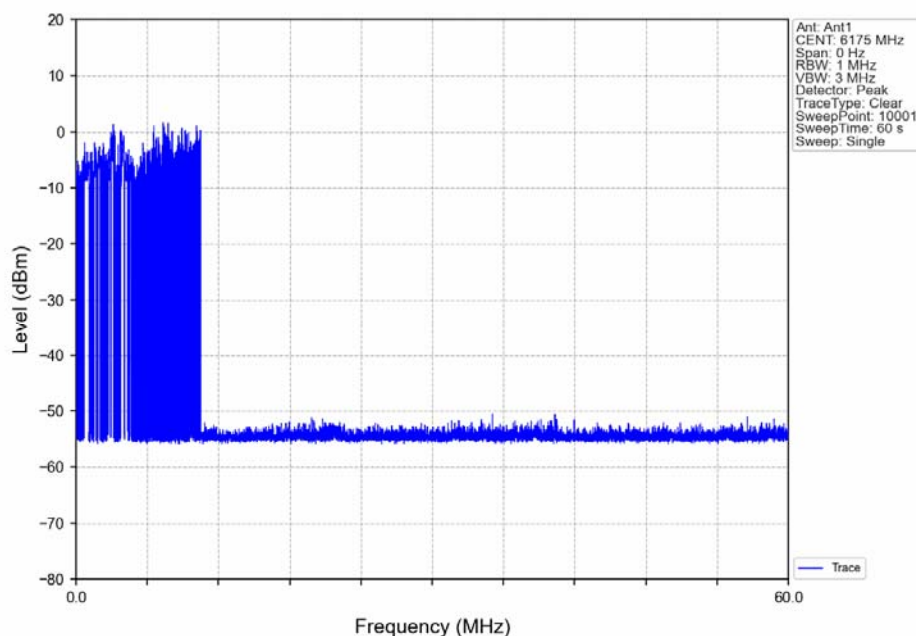
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### 1.2.2 Test Graph

802.11ax(HEW20)\_LCH\_6175MHz\_RU242\_Left\_Ant2\_NTNV - Inject Incumbent signal at 10th seconds and keep the signal continuously injected



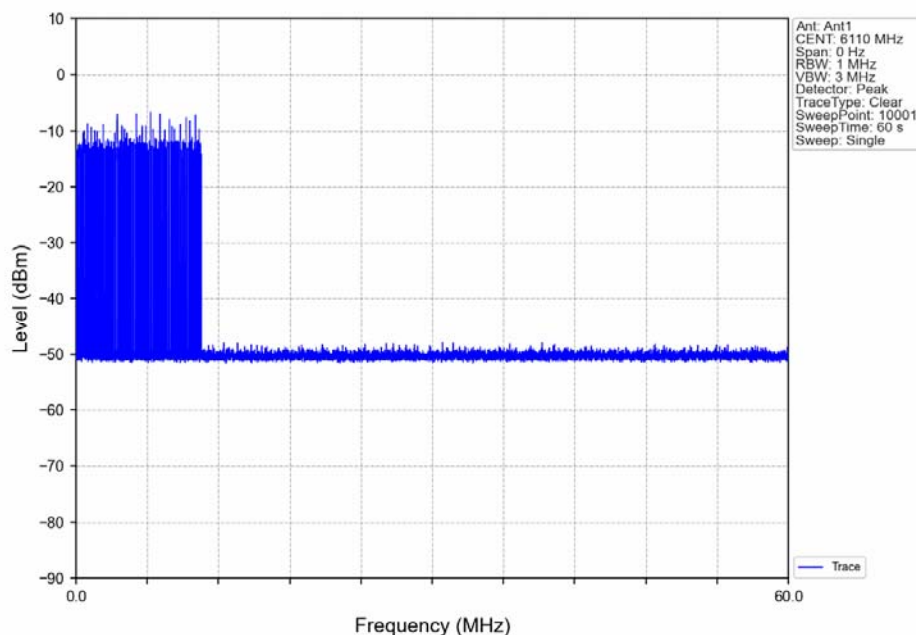
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802.11ax(HEW160)\_LCH\_6185MHz\_2xRU996\_Left\_Ant2\_NTNV\_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected



802.11ax(HEW160)\_LCH\_6185MHz\_2xRU996\_Left\_Ant2\_NTNV\_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected



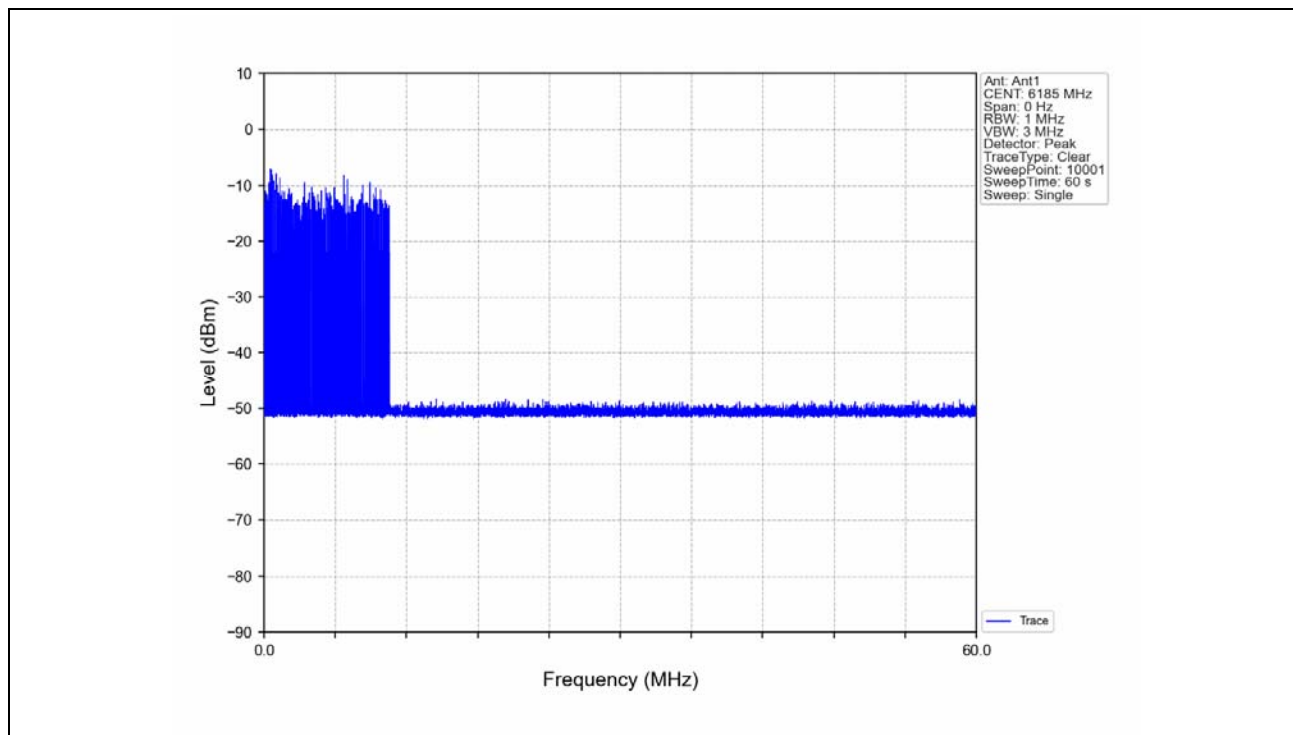
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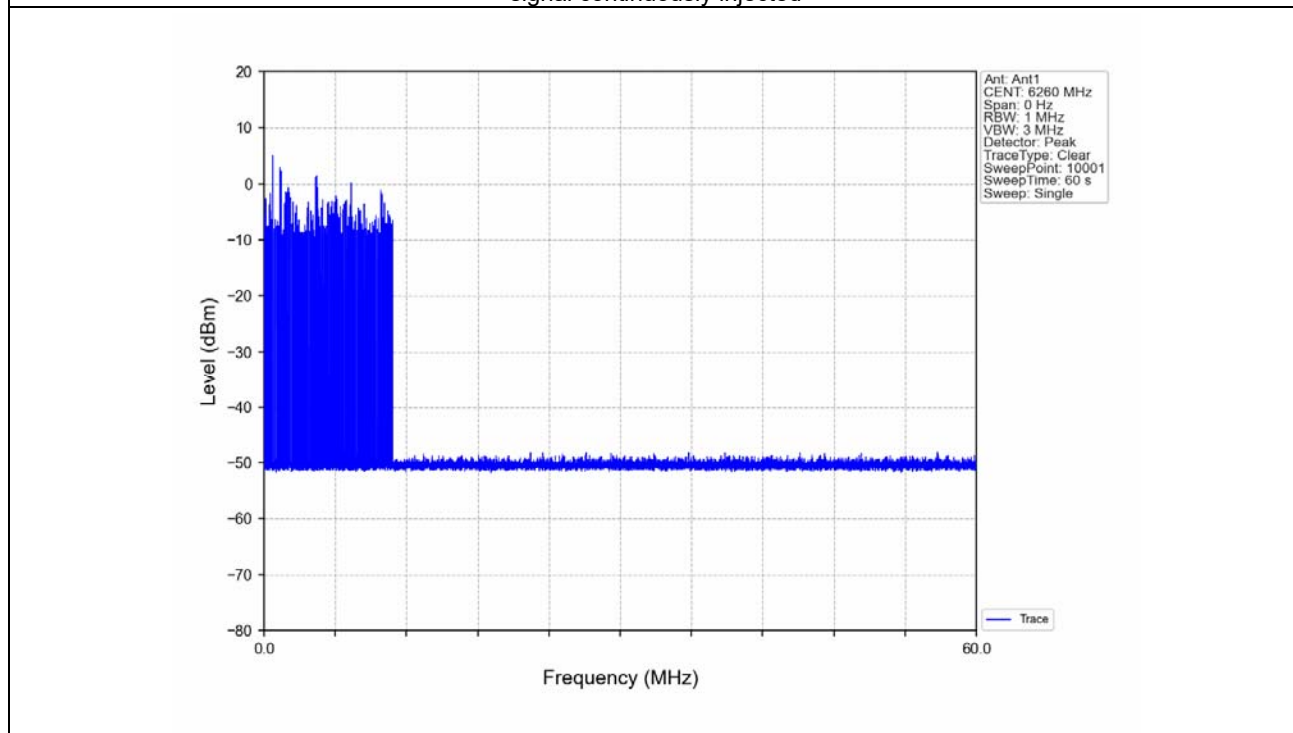
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802.11ax(HEW160)\_LCH\_6185MHz\_2xRU996\_Left\_Ant2\_NTNV\_- Inject Incumbent signal at 10th seconds and keep the signal continuously injected



- End of the Report -

