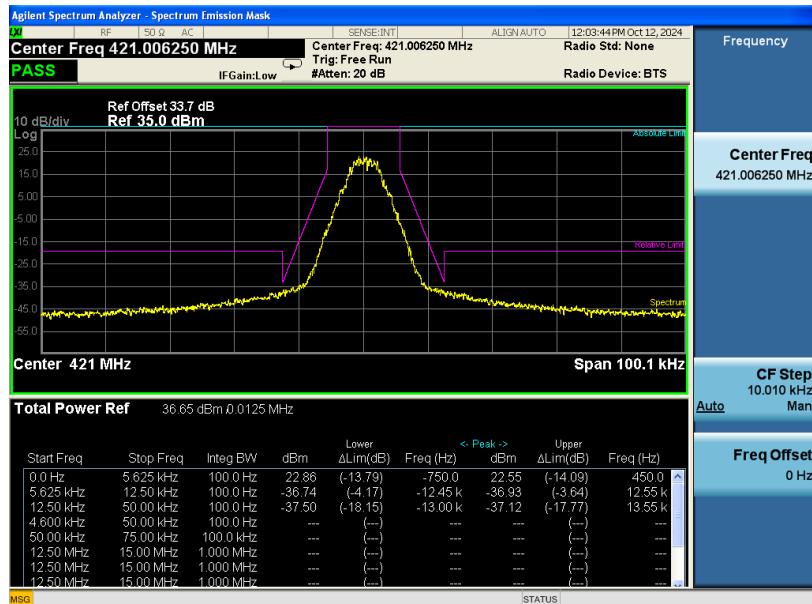
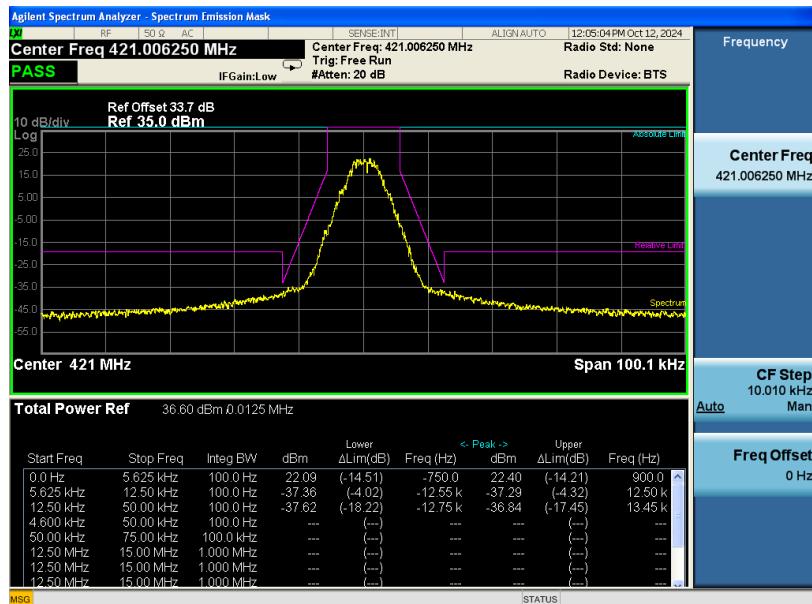


## Emission Masks

## DL\_DMR\_LCH\_Pre-AGC



## DL\_DMR\_LCH\_3dB above AGC



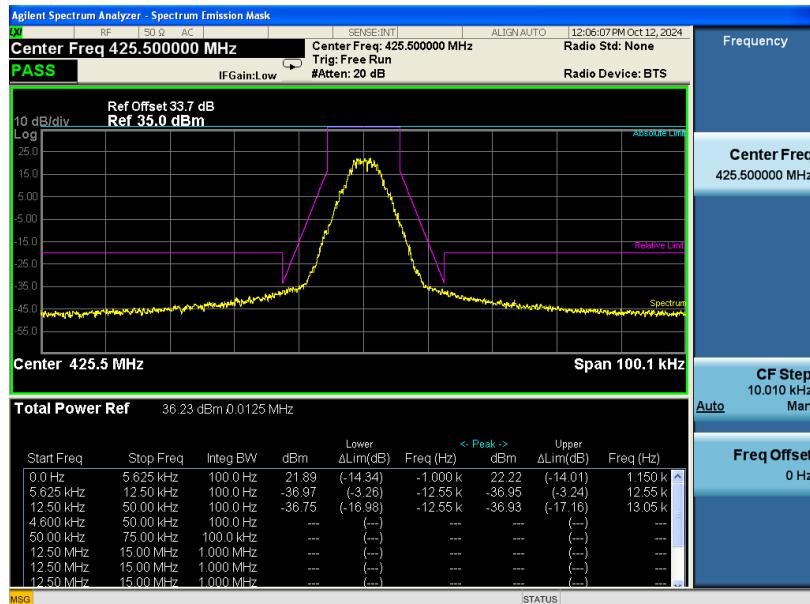
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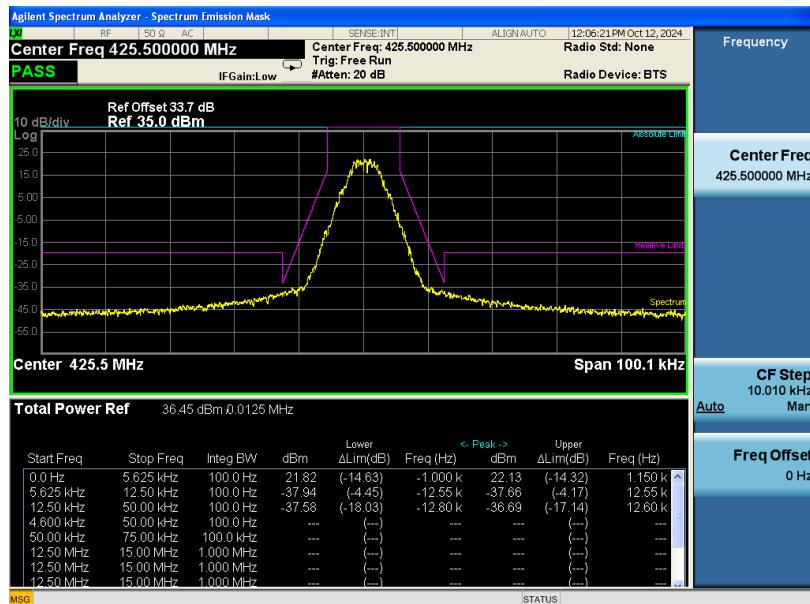


## Emission Masks

## DL\_DMR\_MCH\_Pre-AGC



## DL\_DMR\_MCH\_3dB above AGC



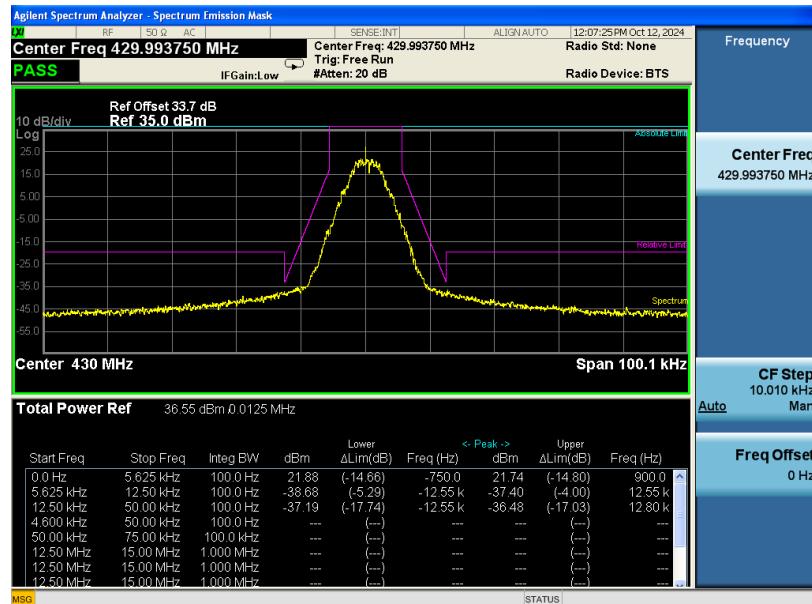
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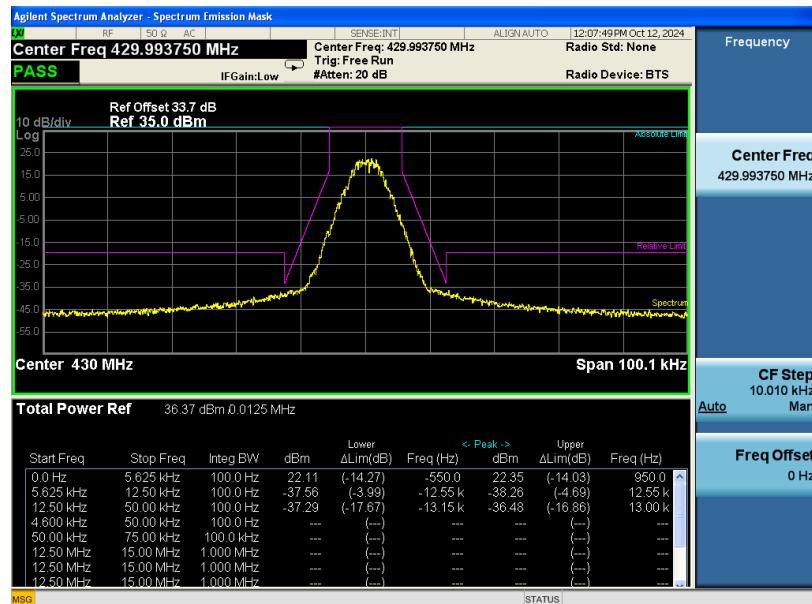


## Emission Masks

## DL\_DMR\_HCH\_Pre-AGC



## DL\_DMR\_HCH\_3dB above AGC



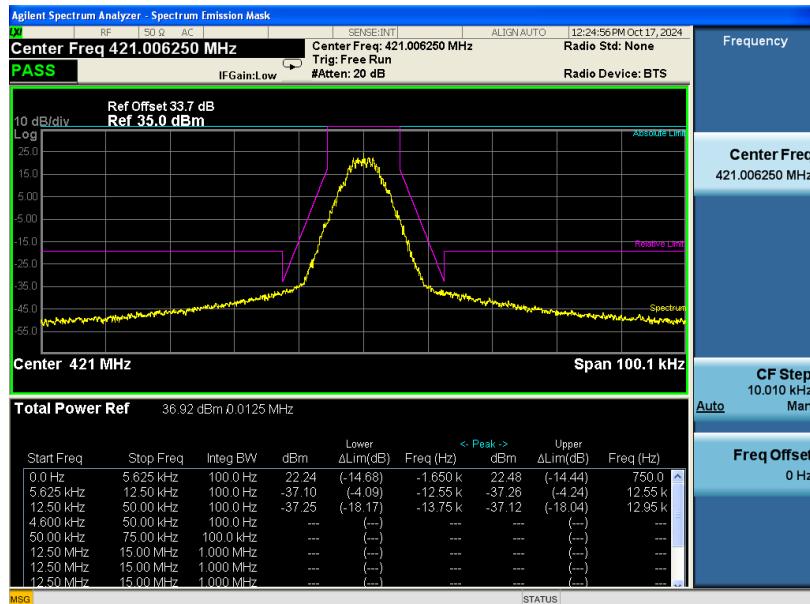
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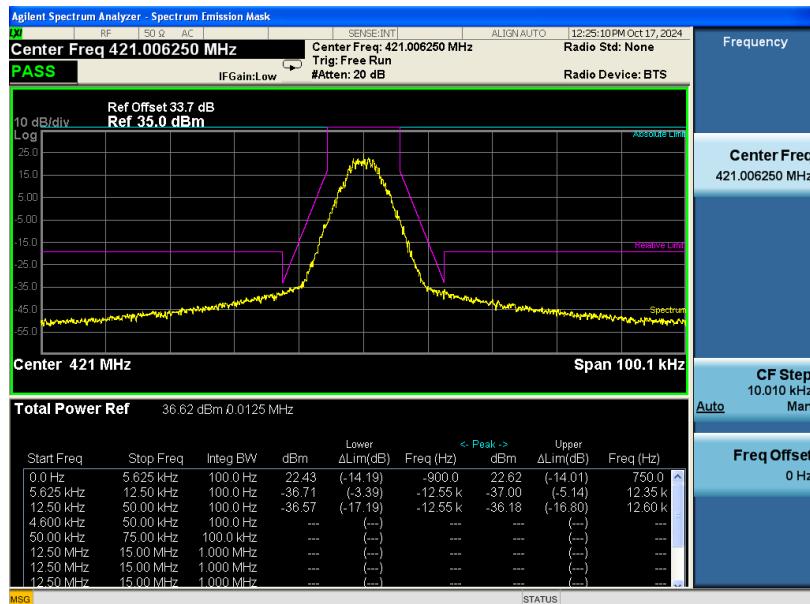


## Emission Masks

## DL\_C4FM\_LCH\_Pre-AGC



## DL\_C4FM\_LCH\_3dB above AGC



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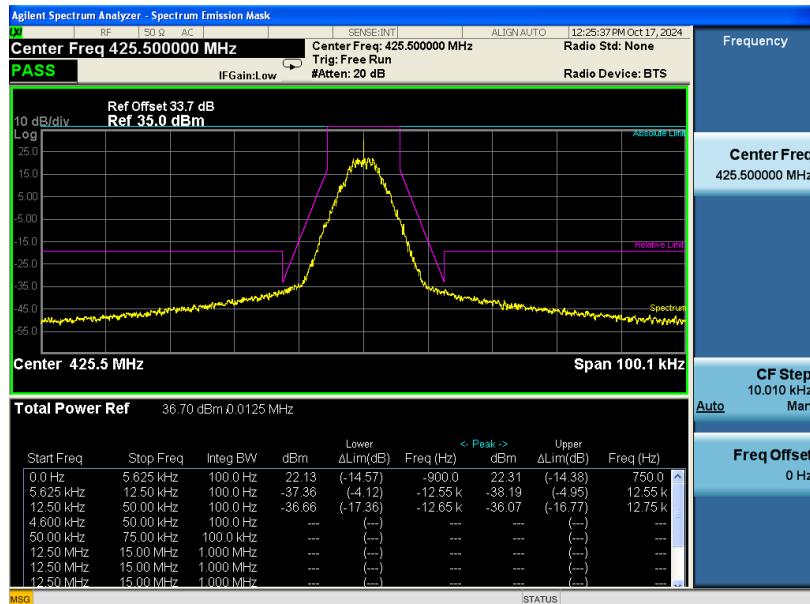
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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新区科学城科珠路198号

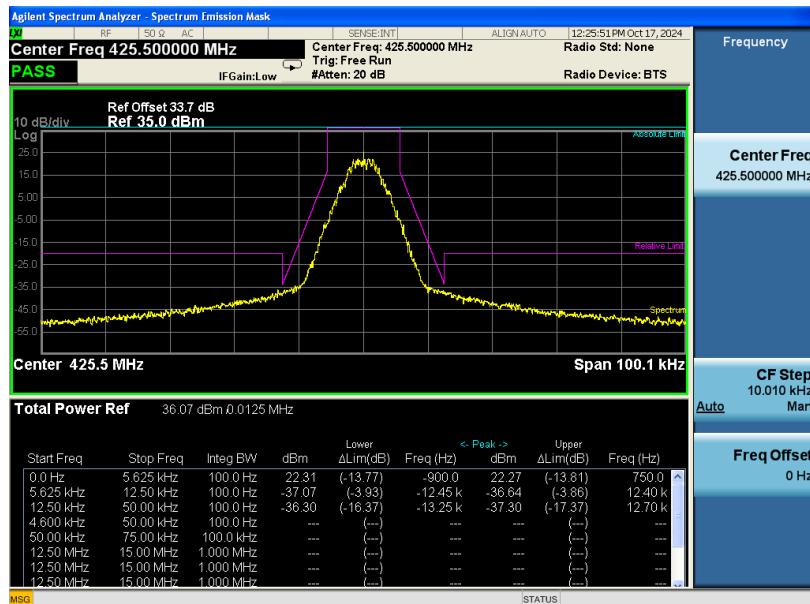
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sgs.china@sgs.com

## Emission Masks

## DL\_C4FM\_MCH\_Pre-AGC



## DL\_C4FM\_MCH\_3dB above AGC



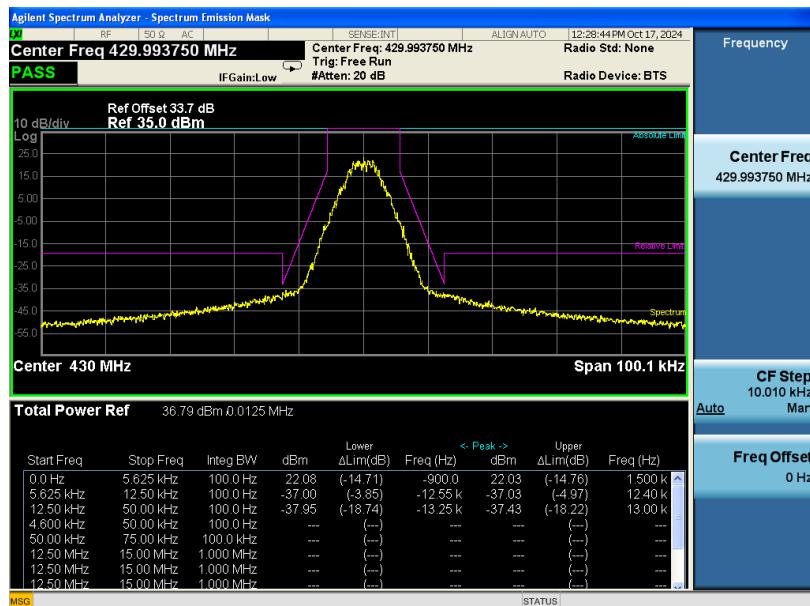
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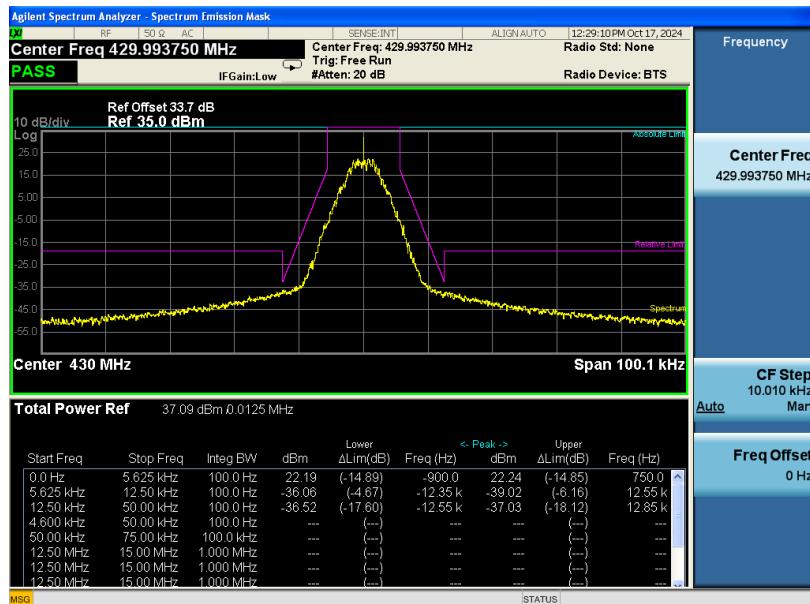


## Emission Masks

## DL\_C4FM\_HCH\_Pre-AGC



## DL\_C4FM\_HCH\_3dB above AGC



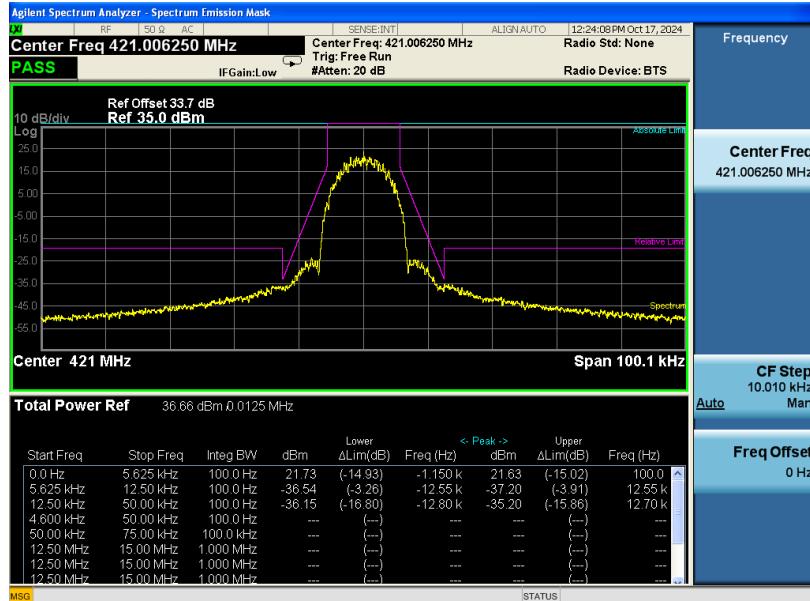
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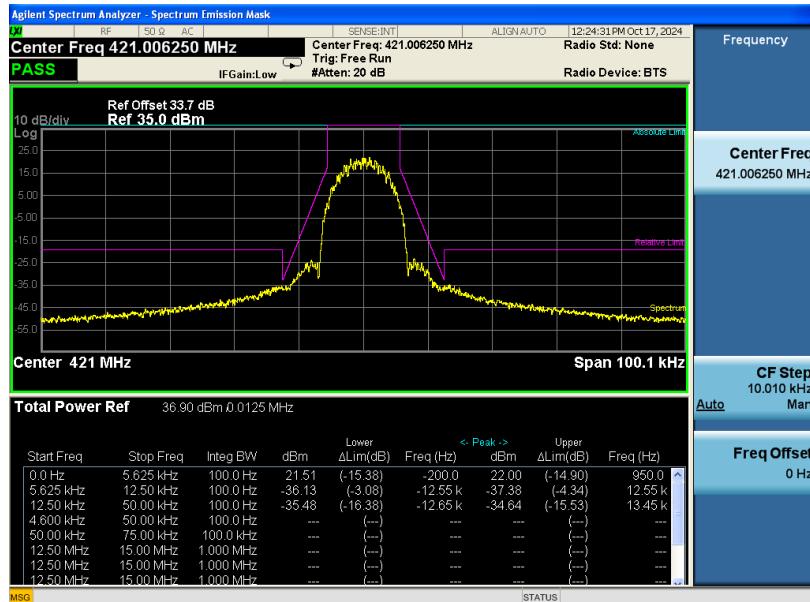


## Emission Masks

## DL\_H-DQPSK\_LCH\_Pre-AGC



## DL\_H-DQPSK\_LCH\_3dB above AGC

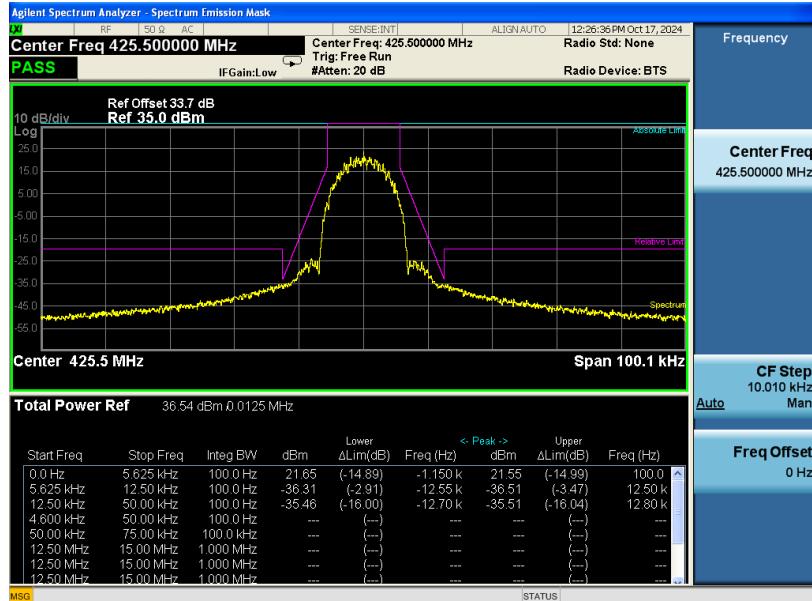


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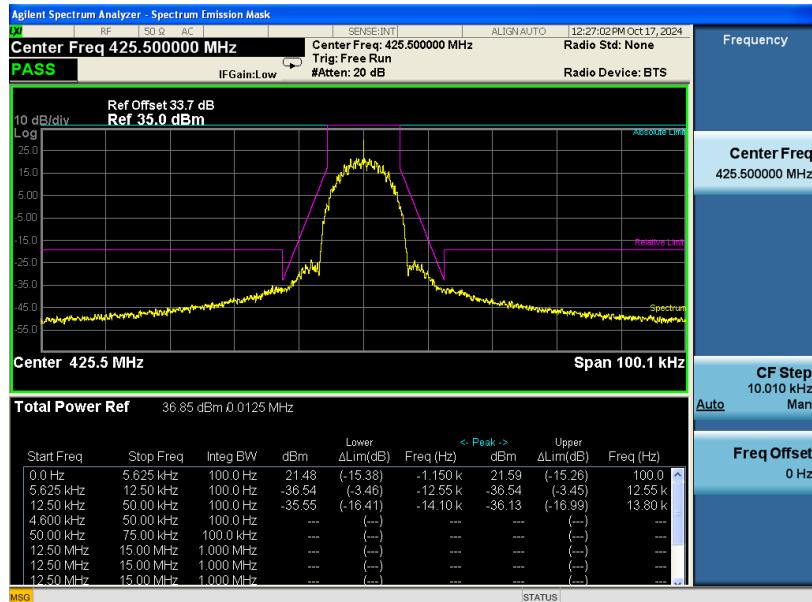
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## Emission Masks

## DL\_H-DQPSK\_MCH\_Pre-AGC



## DL\_H-DQPSK\_MCH\_3dB above AGC



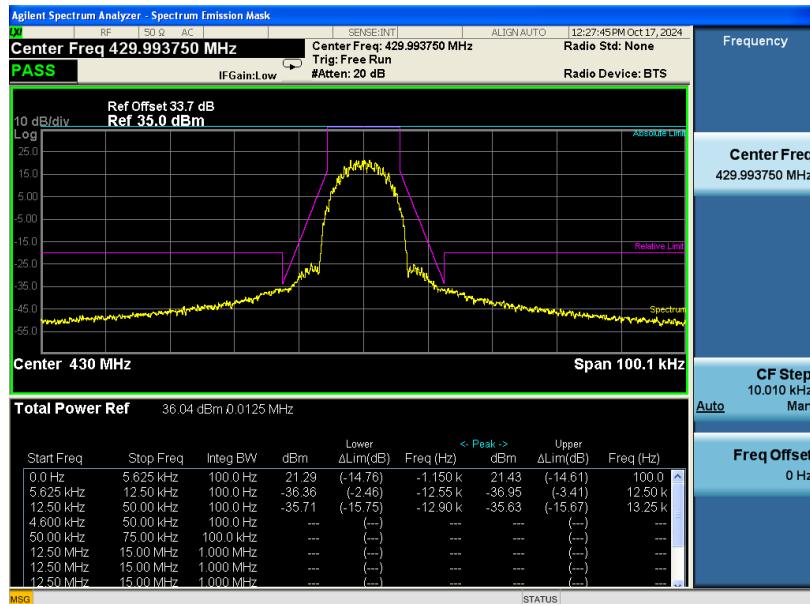
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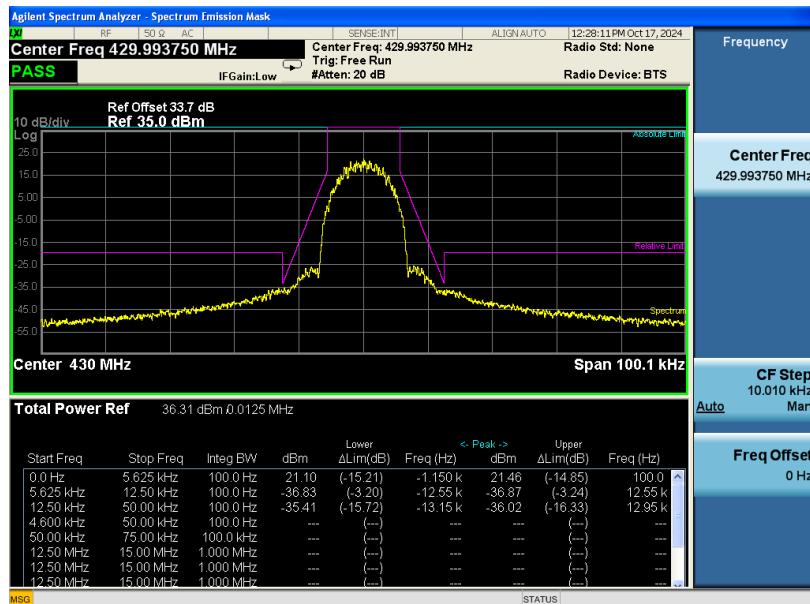


## Emission Masks

## DL\_H-DQPSK\_HCH\_Pre-AGC



## DL\_H-DQPSK\_HCH\_3dB above AGC



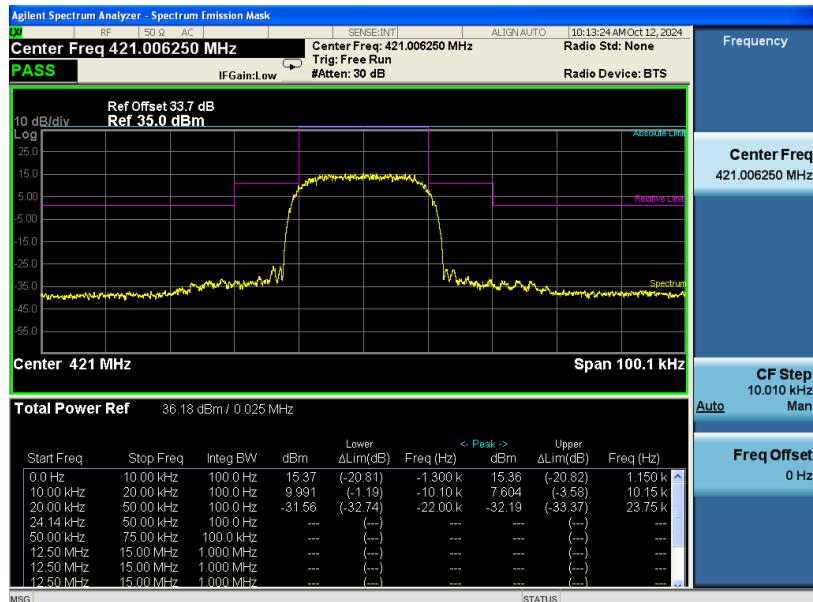
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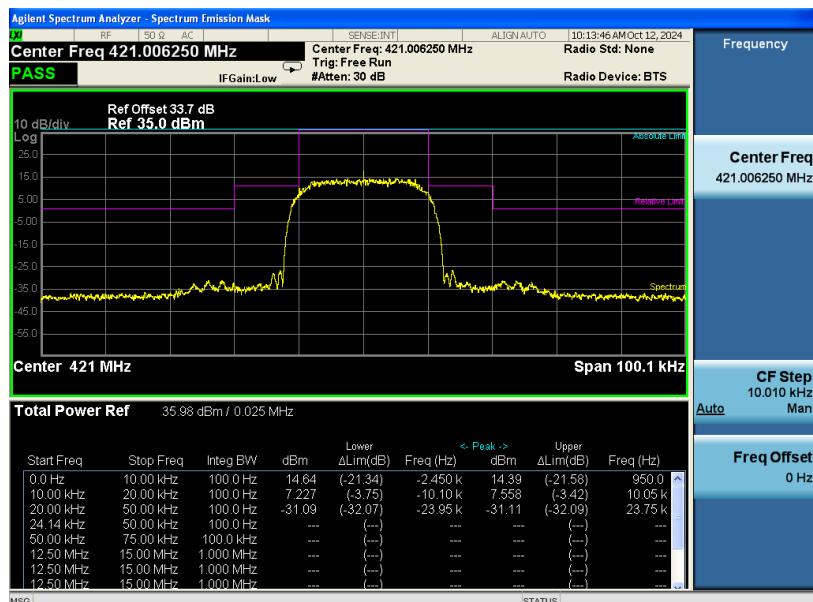


## Emission Masks

## DL\_TETRA\_LCH\_Pre-AGC



## DL\_TETRA\_LCH\_3dB above AGC



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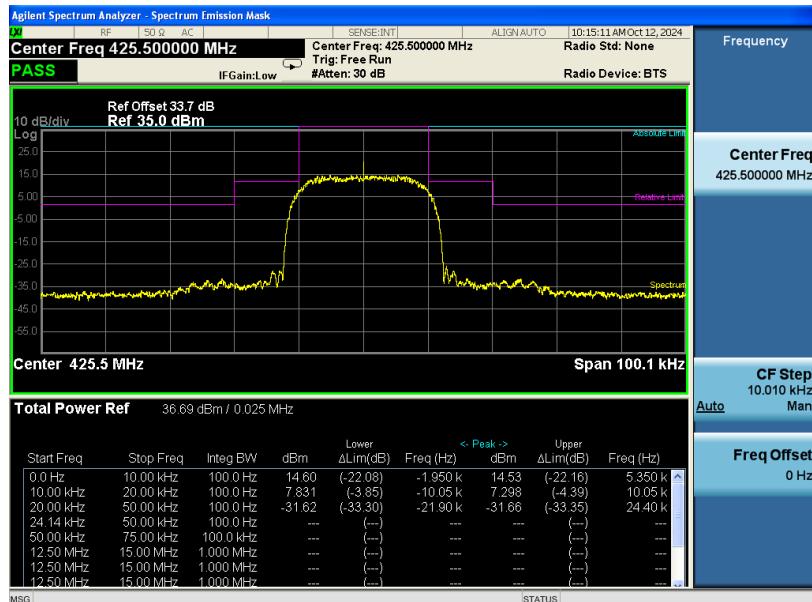
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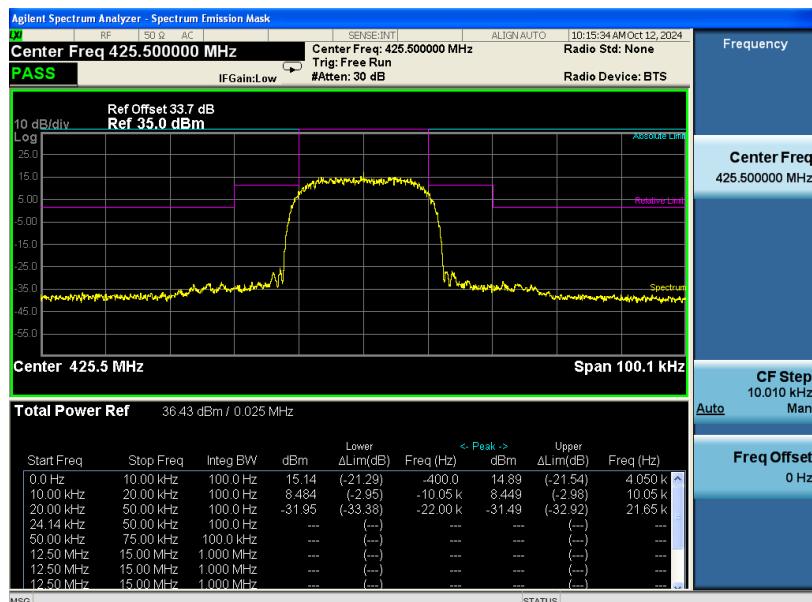
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## Emission Masks

## DL\_TETRA\_MCH\_Pre-AGC



## DL\_TETRA\_MCH\_3dB above AGC



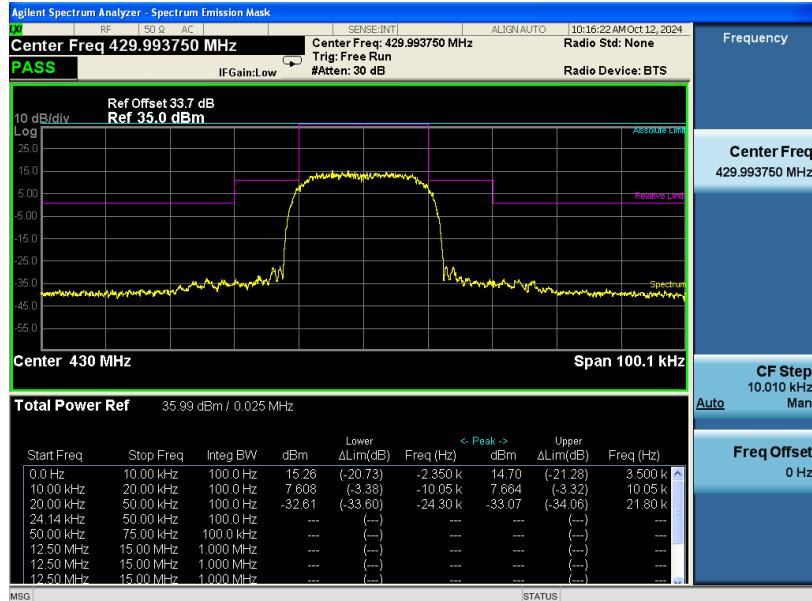
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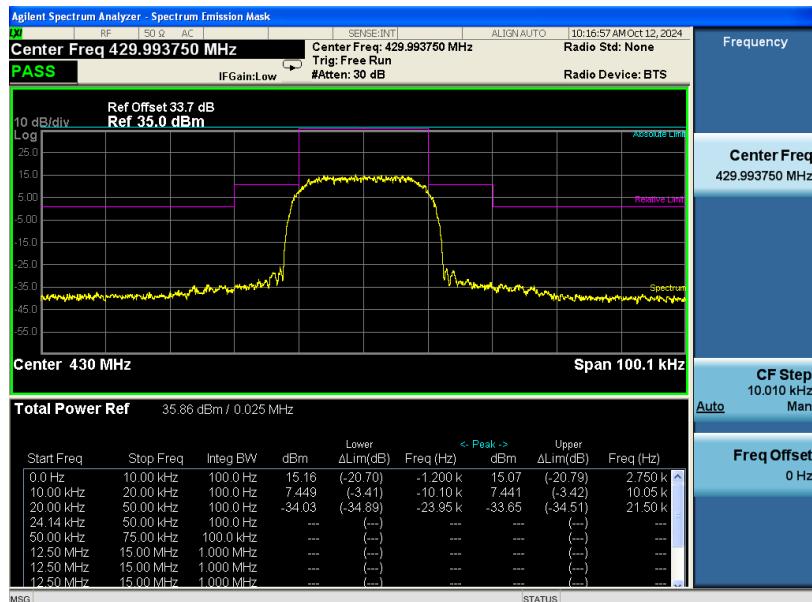


## Emission Masks

## DL\_TETRA\_HCH\_Pre-AGC



## DL\_TETRA\_HCH\_3dB above AGC



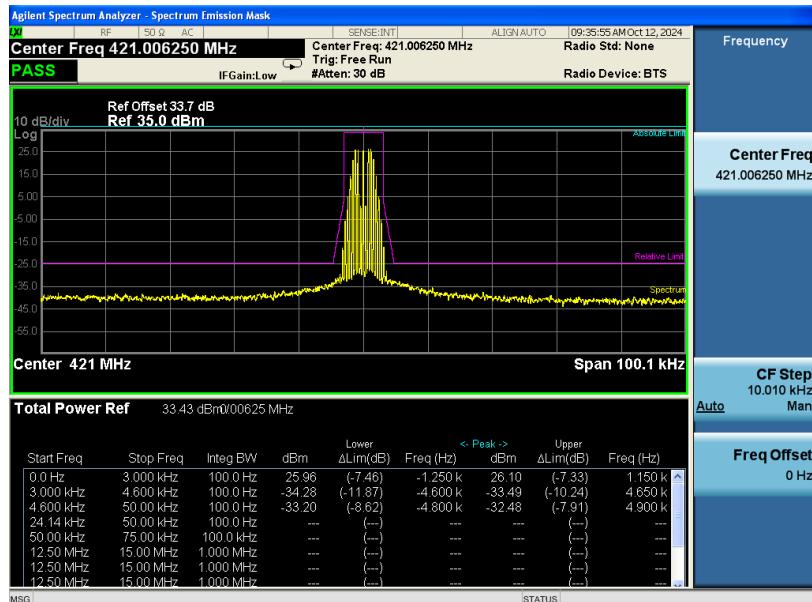
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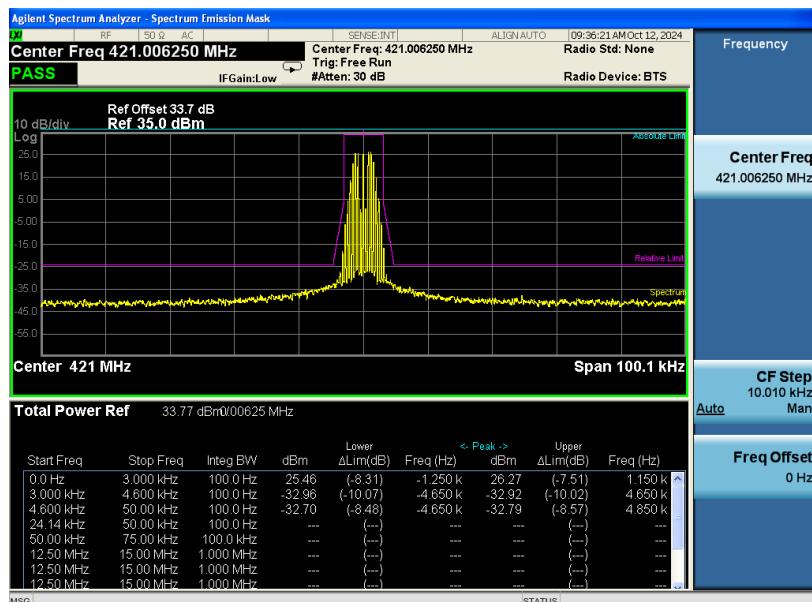


## Emission Masks

## UL\_FM\_LCH\_Pre-AGC



## UL\_FM\_LCH\_3dB above AGC



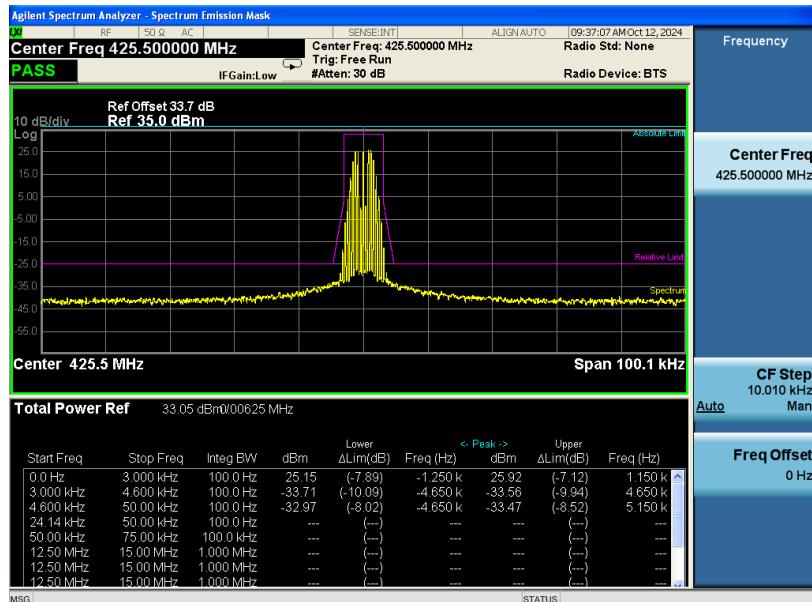
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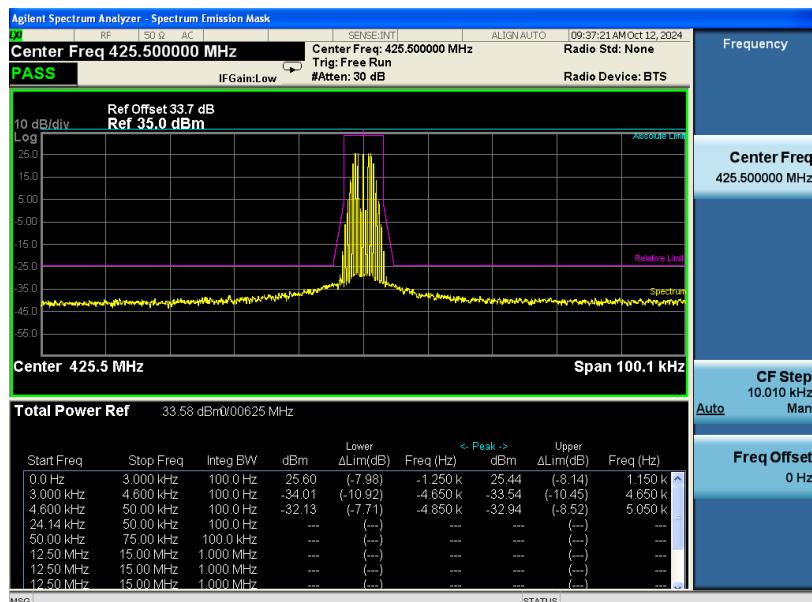


## Emission Masks

## UL\_FM\_MCH\_Pre-AGC



## UL\_FM\_MCH\_3dB above AGC



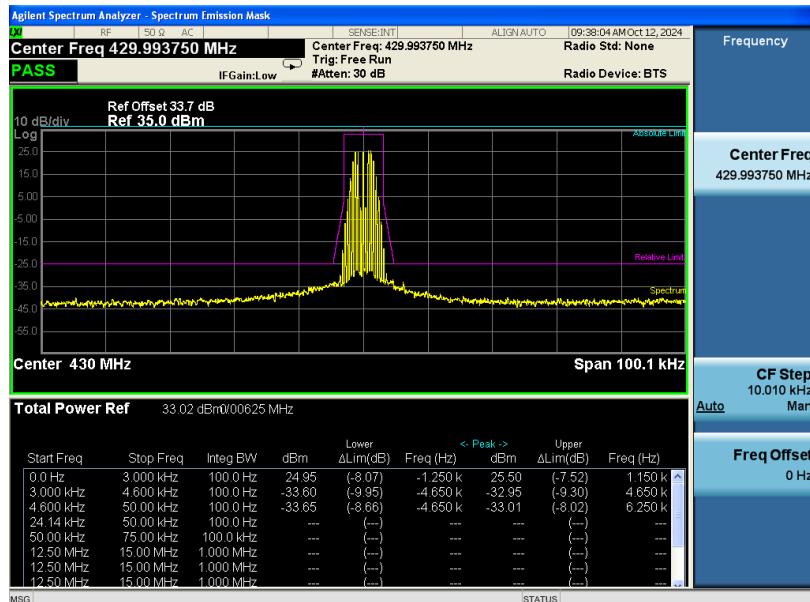
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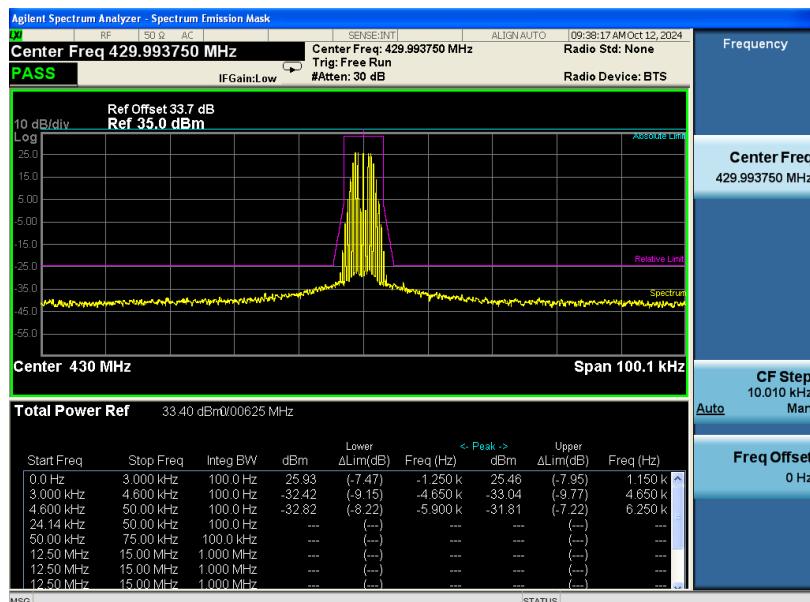


## Emission Masks

## UL\_FM\_HCH\_Pre-AGC



## UL\_FM\_HCH\_3dB above AGC



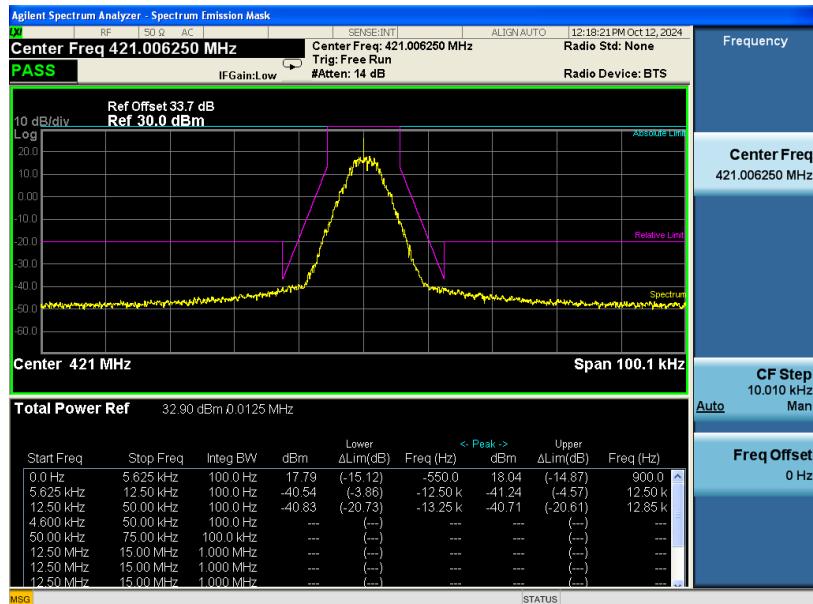
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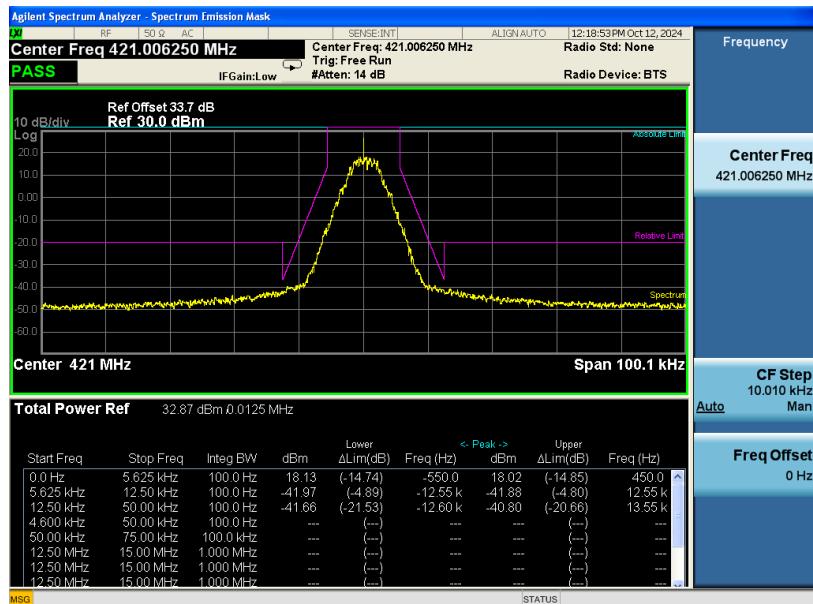


## Emission Masks

## UL\_DMR\_LCH\_Pre-AGC



## UL\_DMR\_LCH\_3dB above AGC



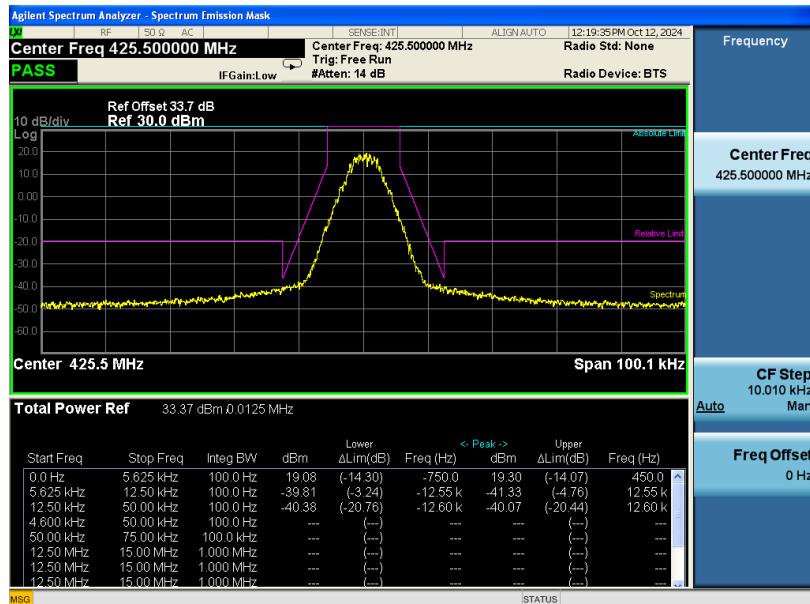
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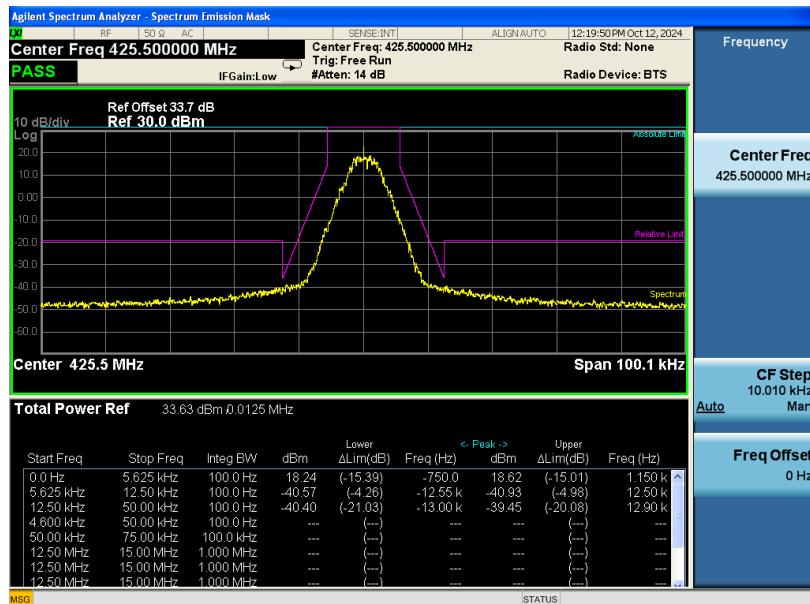


## Emission Masks

## UL\_DMR\_MCH\_Pre-AGC



## UL\_DMR\_MCH\_3dB above AGC



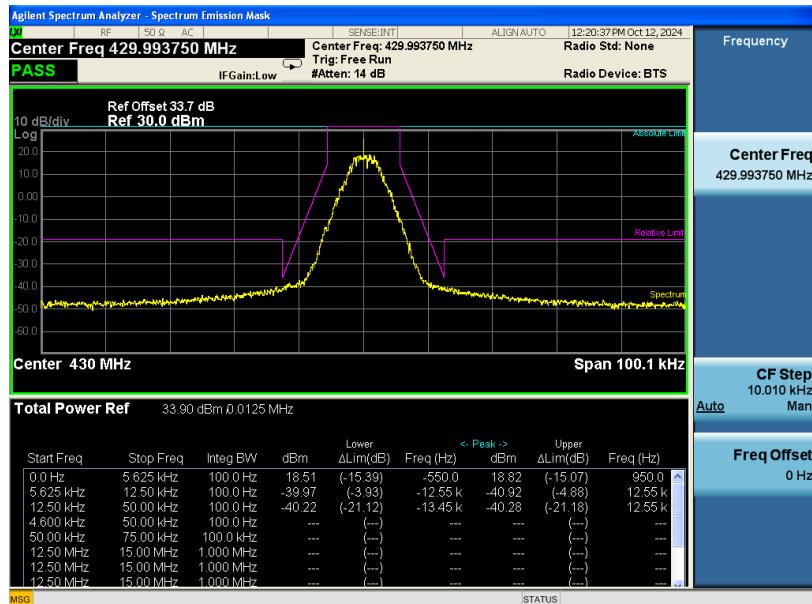
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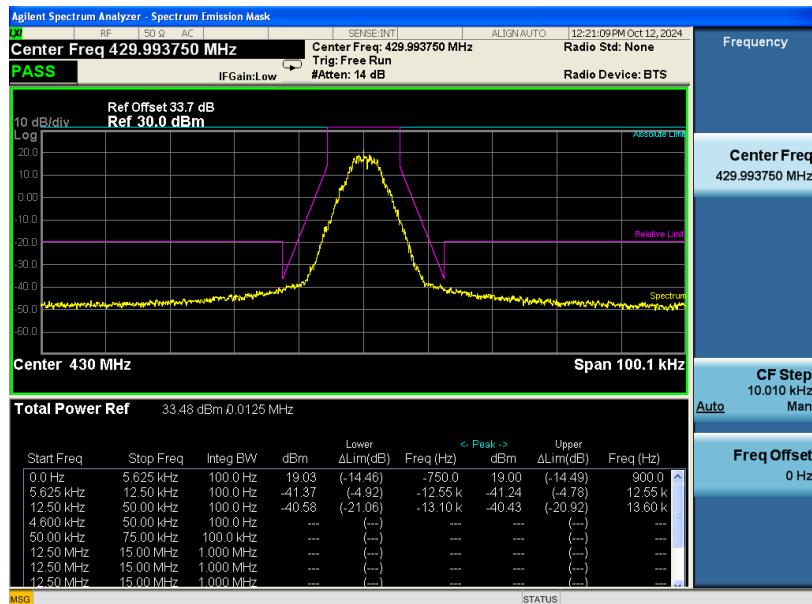


## Emission Masks

## UL\_DMR\_HCH\_Pre-AGC



## UL\_DMR\_HCH\_3dB above AGC



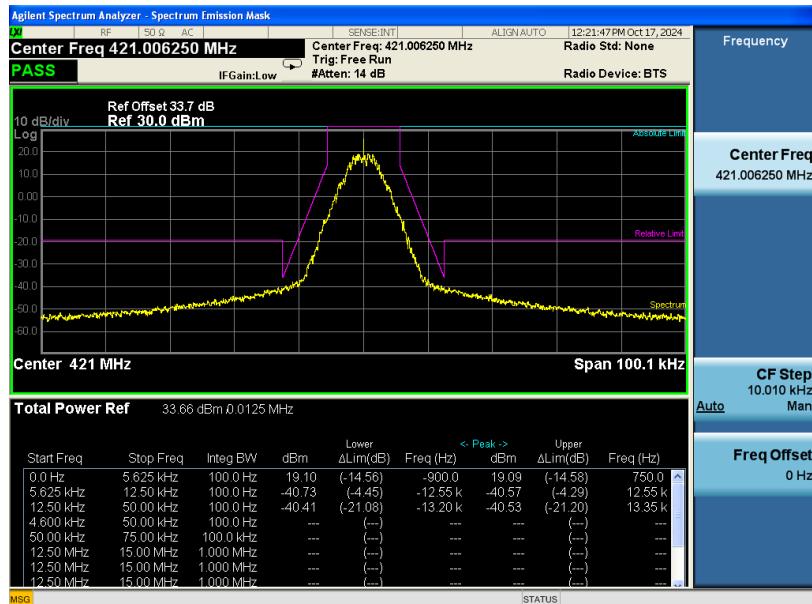
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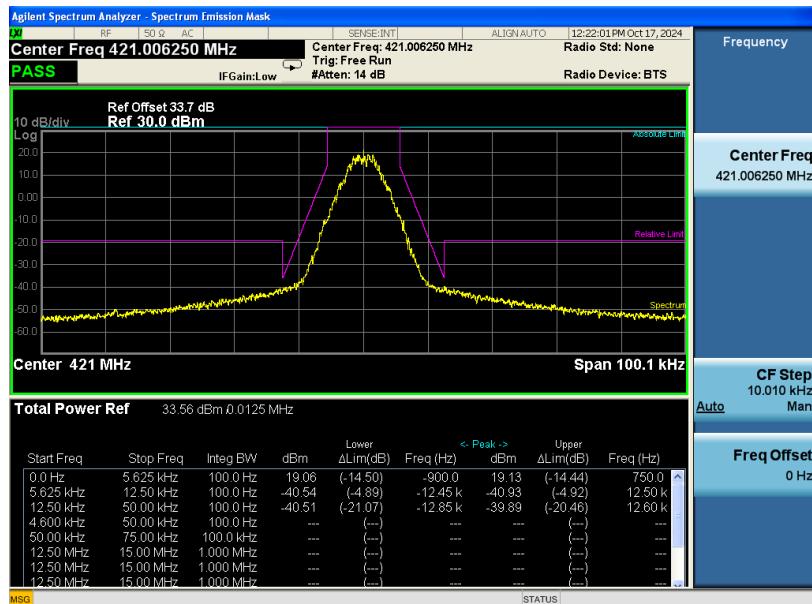


## Emission Masks

## UL\_C4FM\_LCH\_Pre-AGC



## UL\_C4FM\_LCH\_3dB above AGC



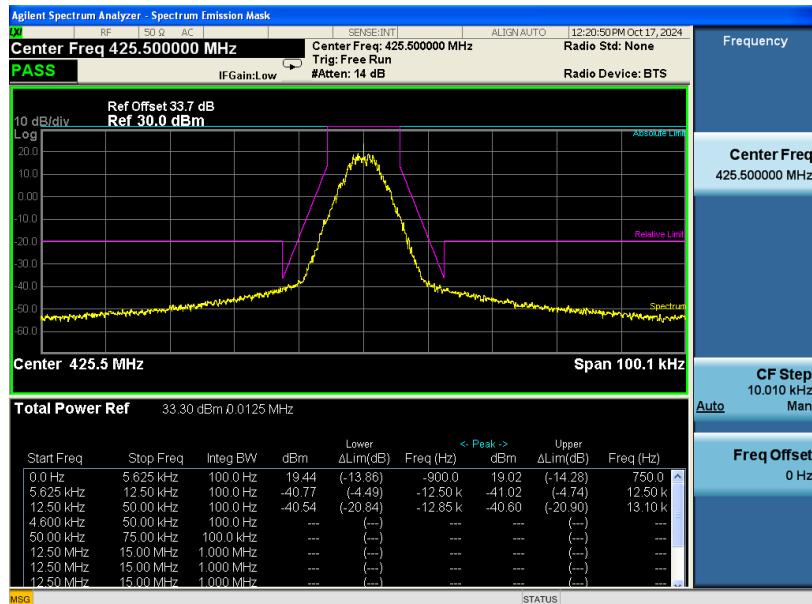
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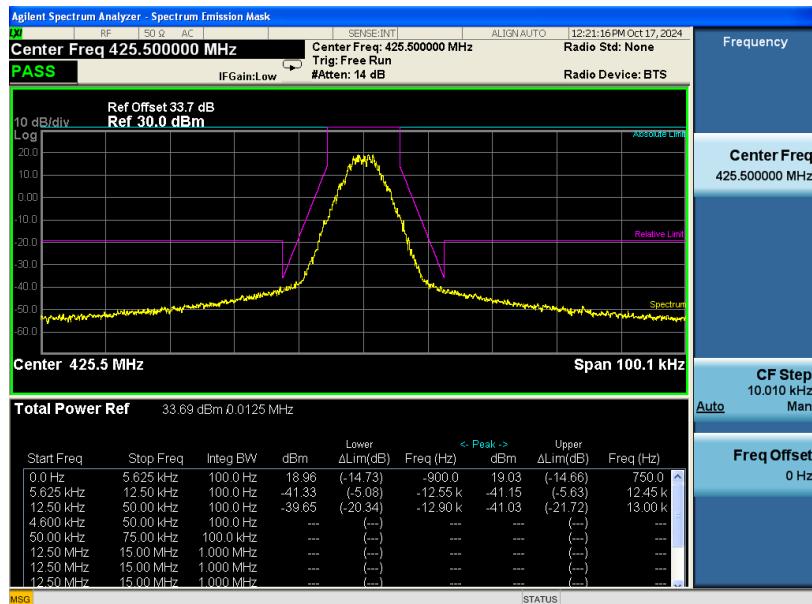


## Emission Masks

## UL\_C4FM\_MCH\_Pre-AGC



## UL\_C4FM\_MCH\_3dB above AGC



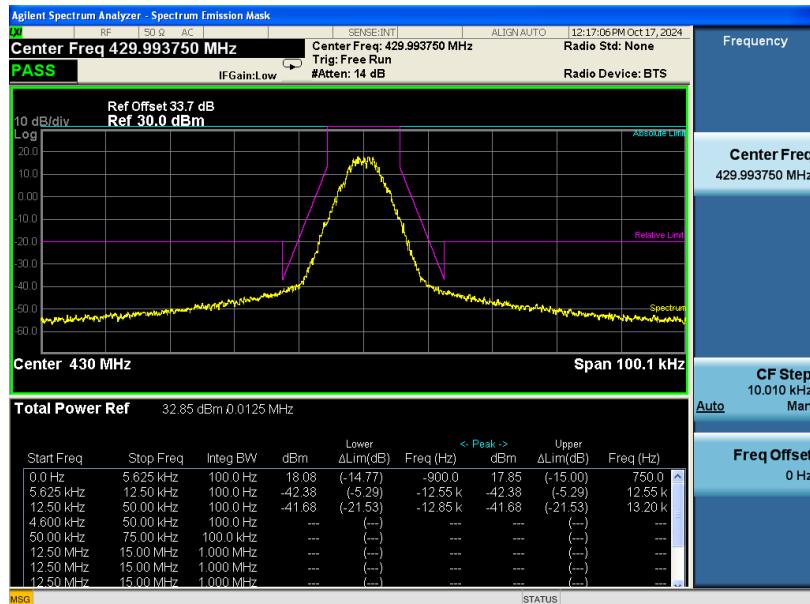
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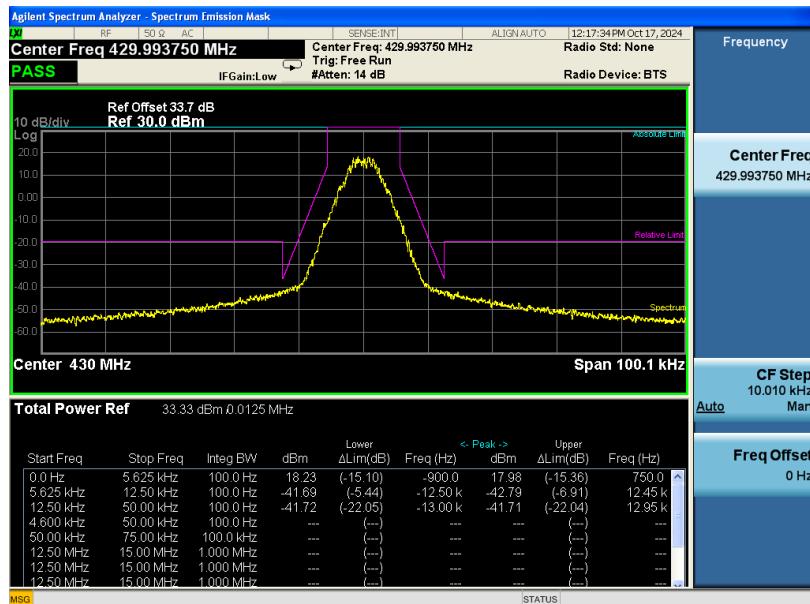


## Emission Masks

## UL\_C4FM\_HCH\_Pre-AGC



## UL\_C4FM\_HCH\_3dB above AGC



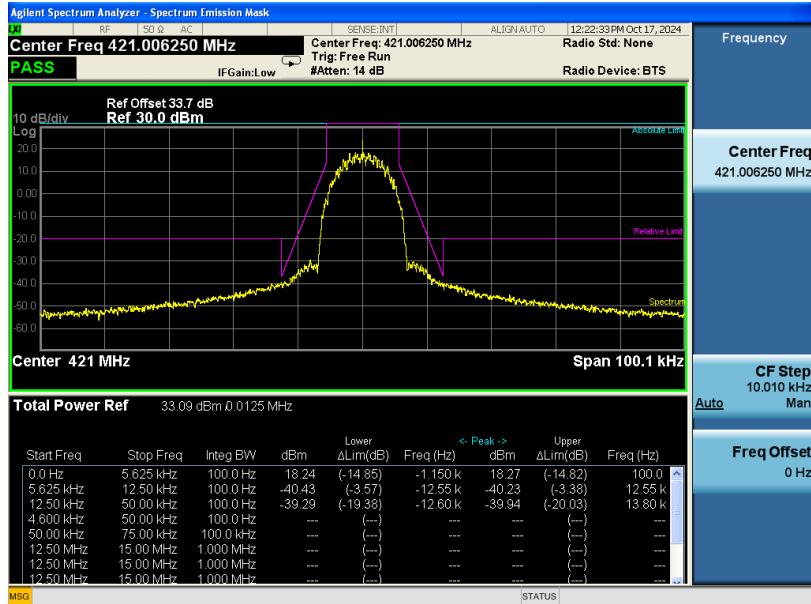
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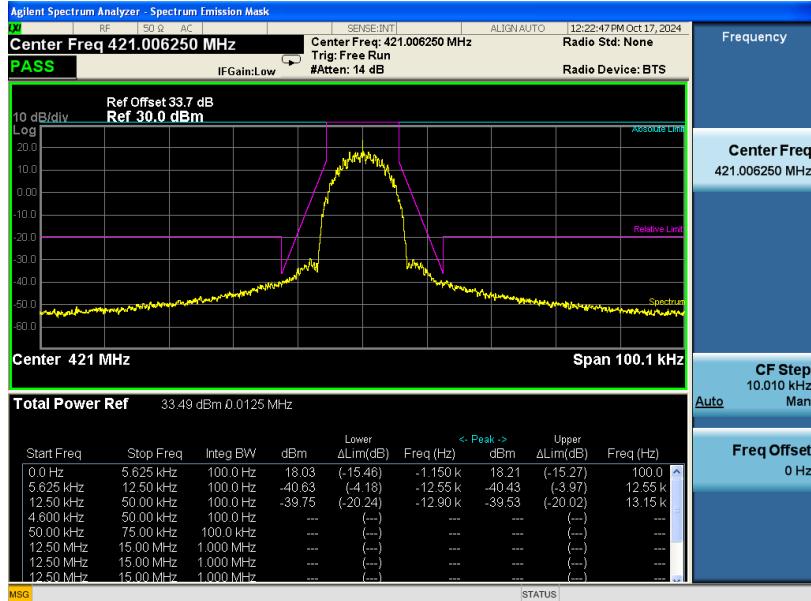


## Emission Masks

## UL\_H-DQPSK\_LCH\_Pre-AGC



## UL\_H-DQPSK\_LCH\_3dB above AGC



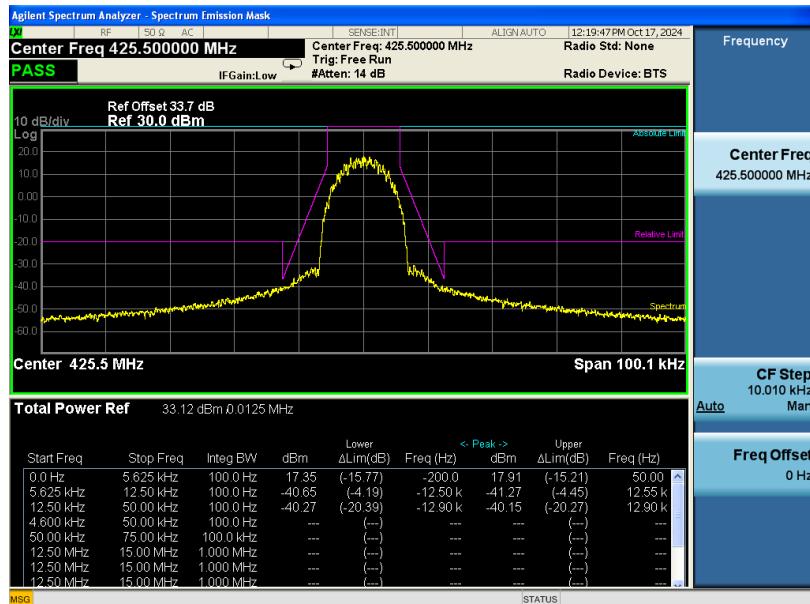
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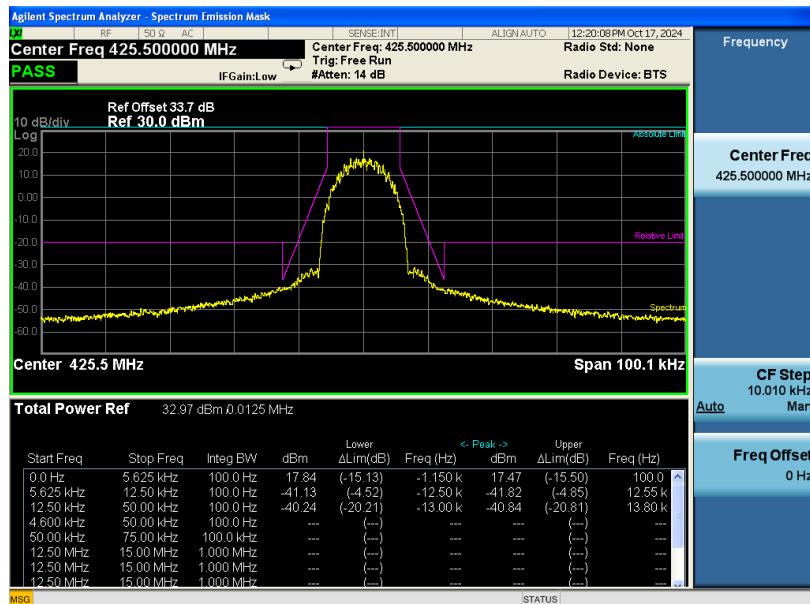


## Emission Masks

## UL\_H-DQPSK\_MCH\_Pre-AGC



## UL\_H-DQPSK\_MCH\_3dB above AGC



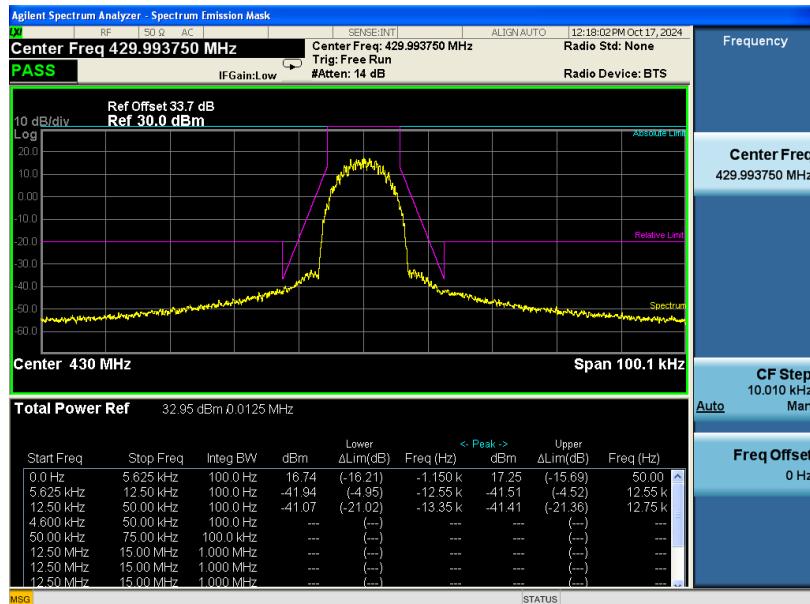
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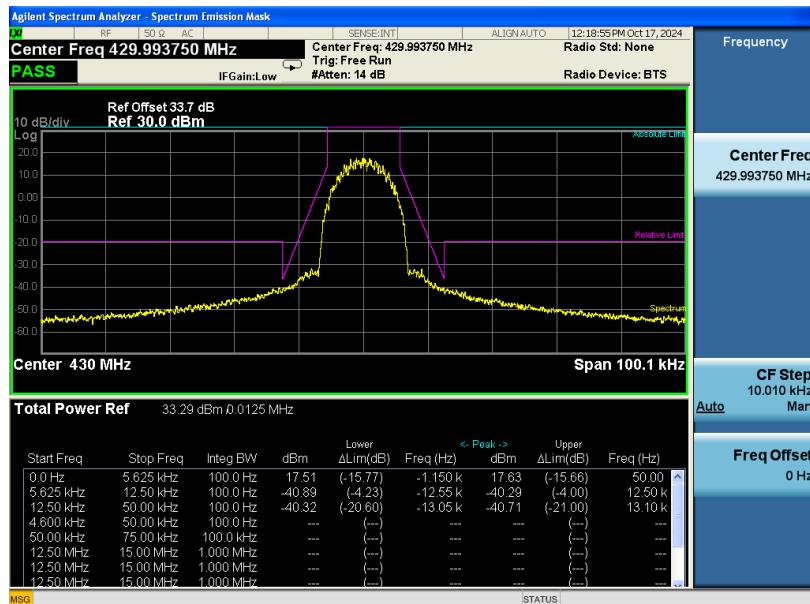


## Emission Masks

## UL\_H-DQPSK\_HCH\_Pre-AGC



## UL\_H-DQPSK\_HCH\_3dB above AGC



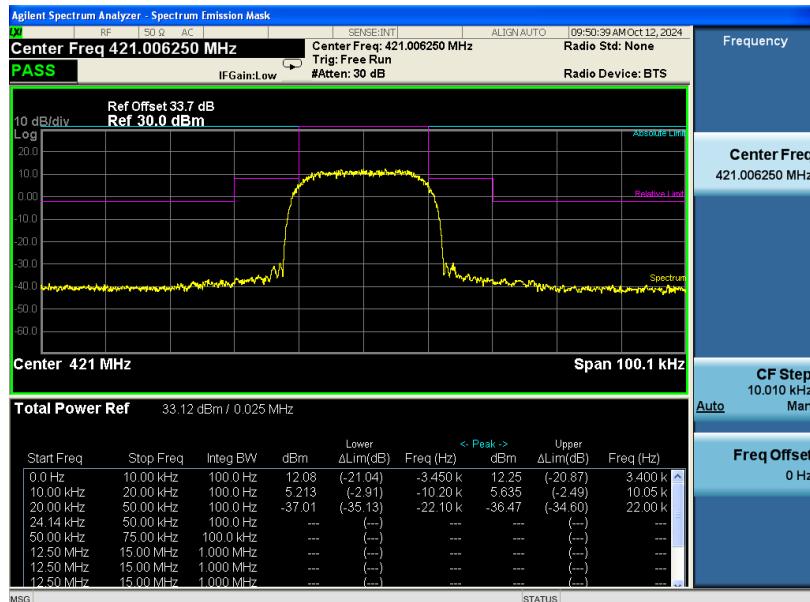
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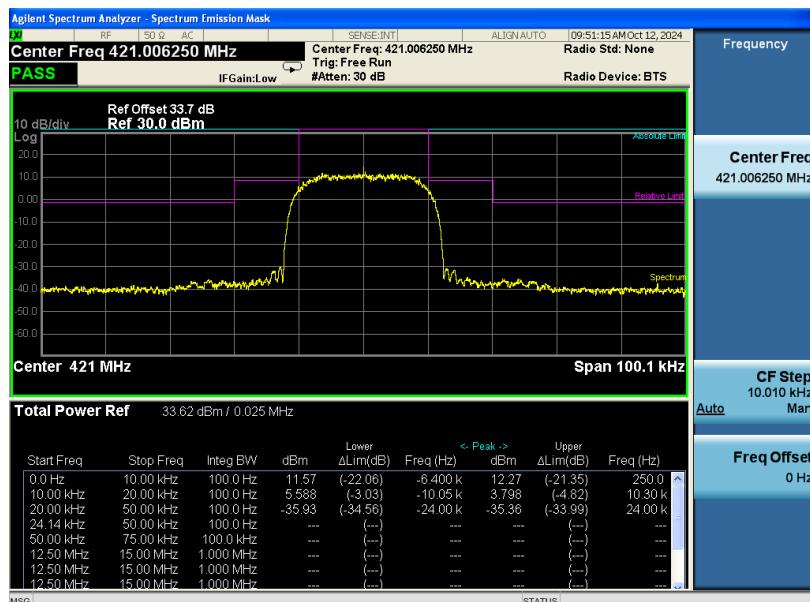


## Emission Masks

## UL\_TETRA\_LCH\_Pre-AGC



## UL\_TETRA\_LCH\_3dB above AGC



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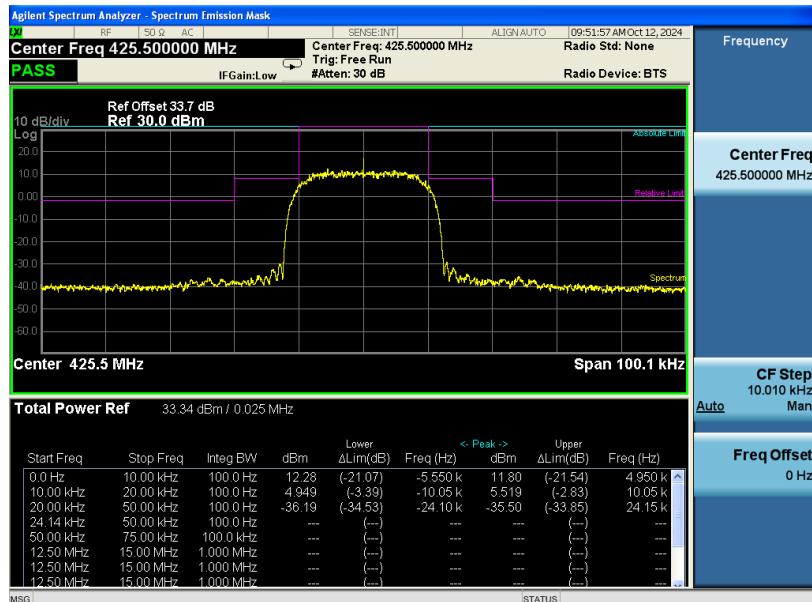


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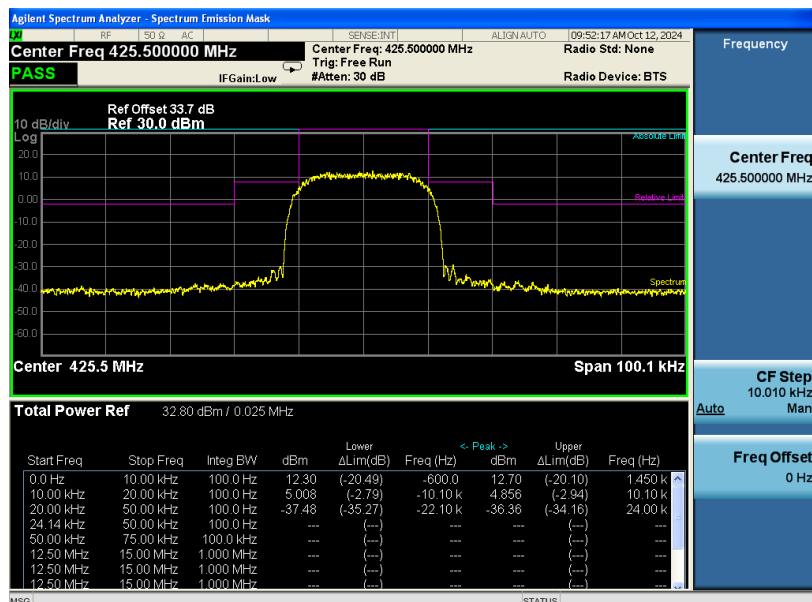
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## Emission Masks

## UL\_TETRA\_MCH\_Pre-AGC



## UL\_TETRA\_MCH\_3dB above AGC



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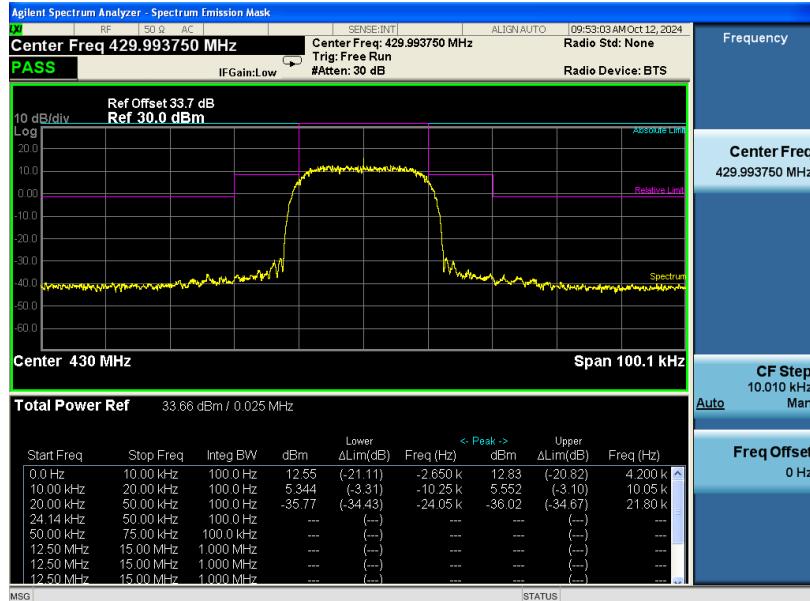


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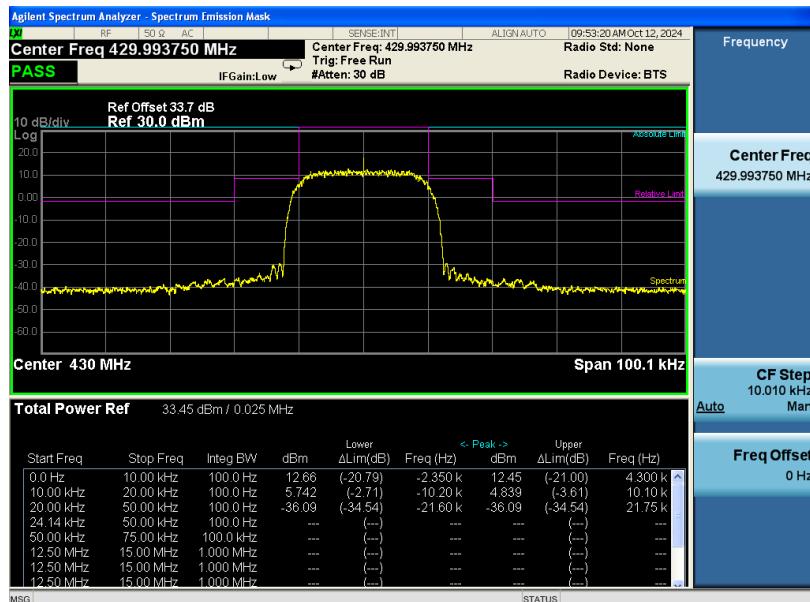
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## Emission Masks

## UL\_TETRA\_HCH\_Pre-AGC



## UL\_TETRA\_HCH\_3dB above AGC



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**5 Noise Figure**

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	7.57	$\leq 9$	PASS
UL	7.11		PASS

**6 Intermodulation**

Intermodulation					
Test path	Test frequency f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm)	
				300Hz measurement bandwidth	10kHz measurement bandwidth
DL	427.0	6.25	Pre-AGC	-15.44	-0.21
			3dB above AGC	-15.41	-0.18
		12.5	Pre-AGC	-14.96	0.27
			3dB above AGC	-14.85	0.38
		25	Pre-AGC	-15.56	-0.33
			3dB above AGC	-15.34	-0.11
UL	422.5	6.25	Pre-AGC	-21.75	-6.52
			3dB above AGC	-22.22	-6.99
		12.5	Pre-AGC	-20.60	-5.37
			3dB above AGC	-22.52	-7.29
		25	Pre-AGC	-22.17	-6.94
			3dB above AGC	-21.31	-6.08

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+  $10\lg(10000/300)$ .
3. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
4. The ERP of worst intermodulation products is  $0.38/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -1.77\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

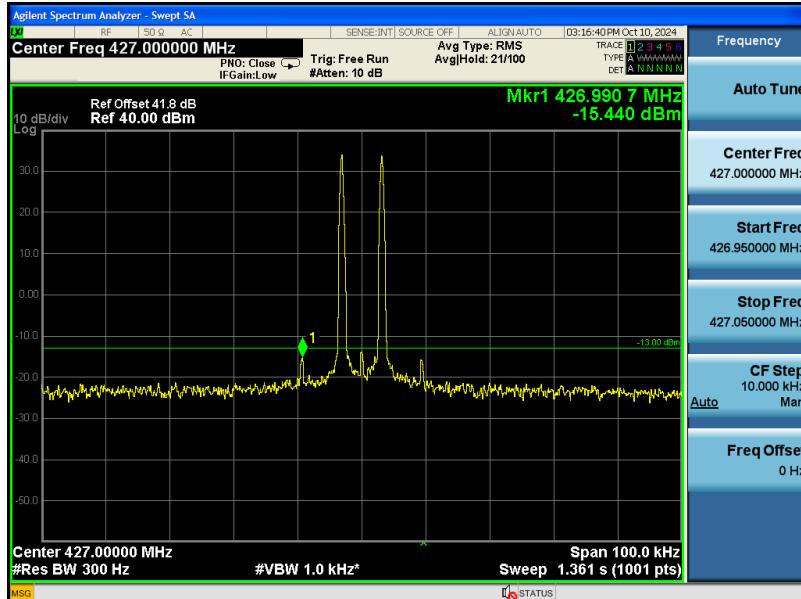


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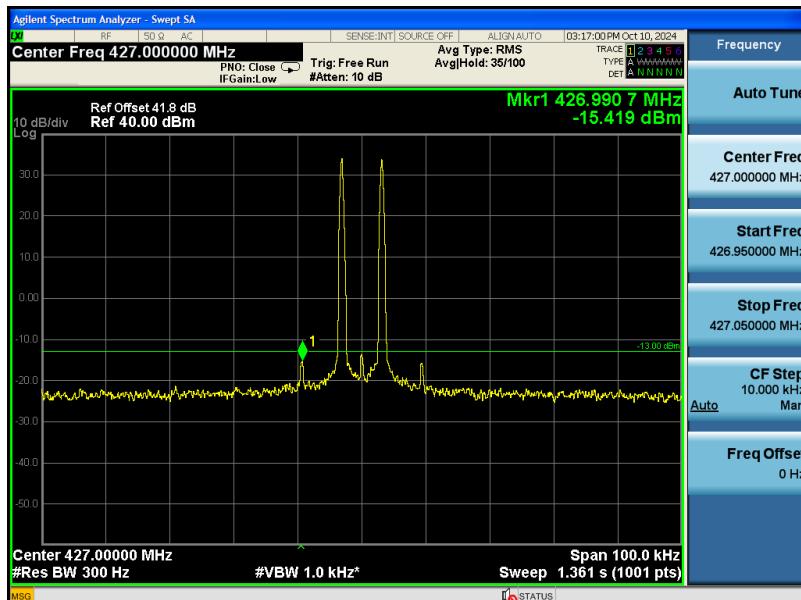
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## Intermodulation

## DL\_6.25kHz\_Pre-AGC



## DL\_6.25kHz\_3dB above AGC



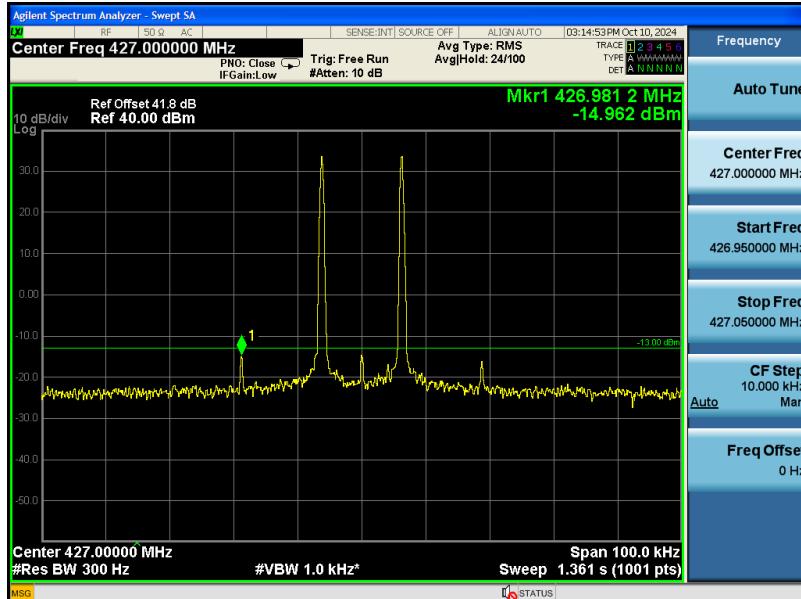
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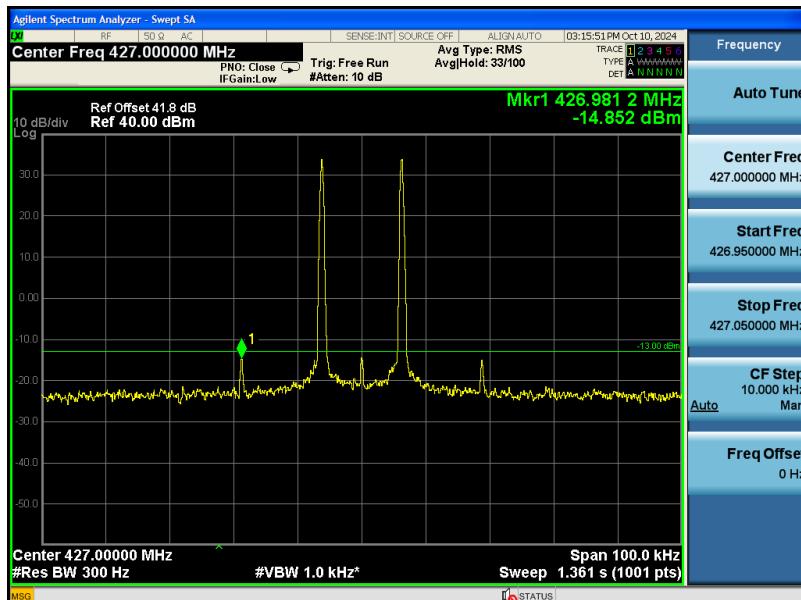


## Intermodulation

## DL\_12.5kHz\_Pre-AGC



## DL\_12.5kHz\_3dB above AGC



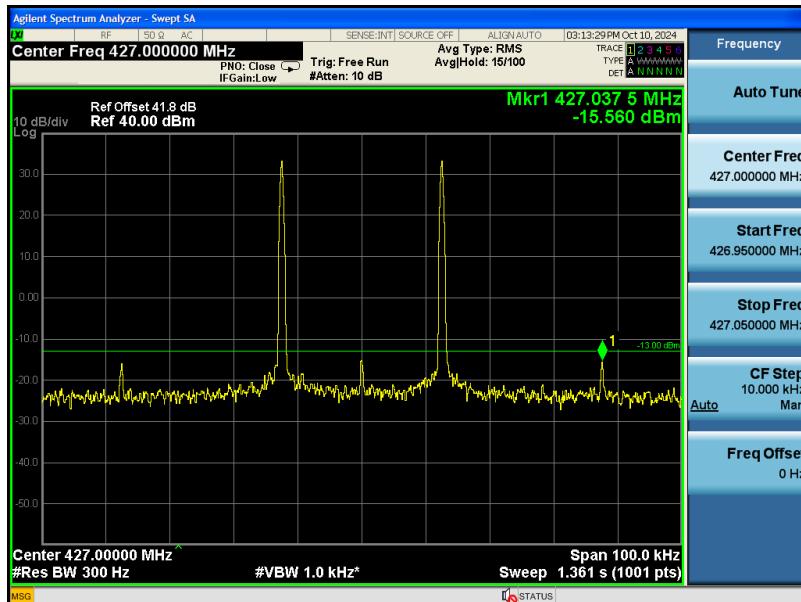
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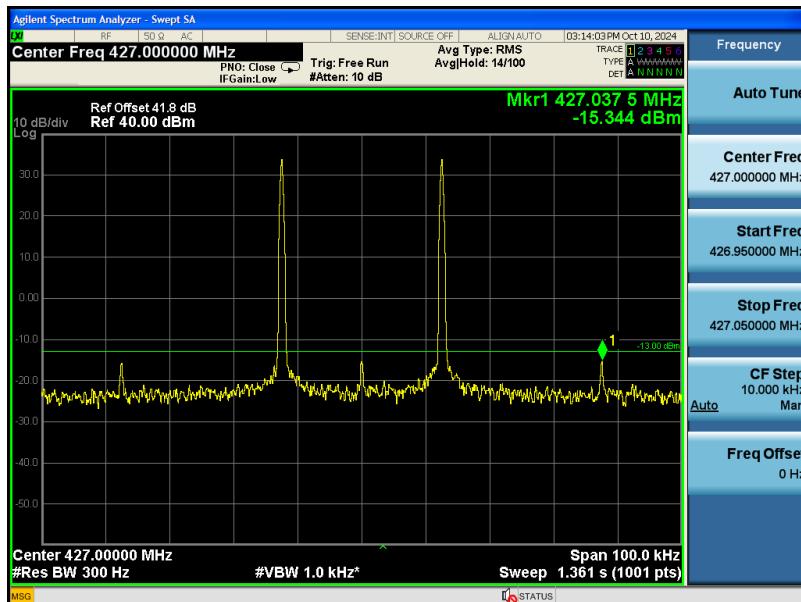


## Intermodulation

## DL\_25kHz\_Pre-AGC



## DL\_25kHz\_3dB above AGC



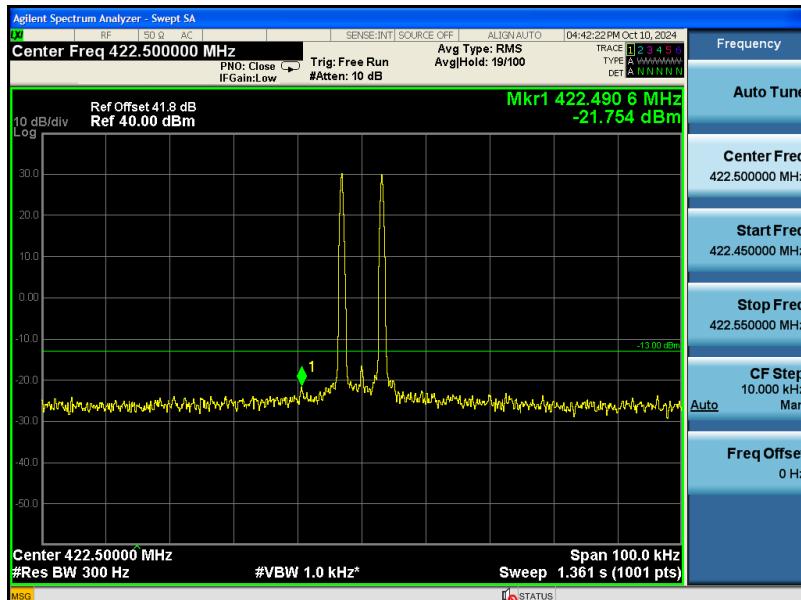
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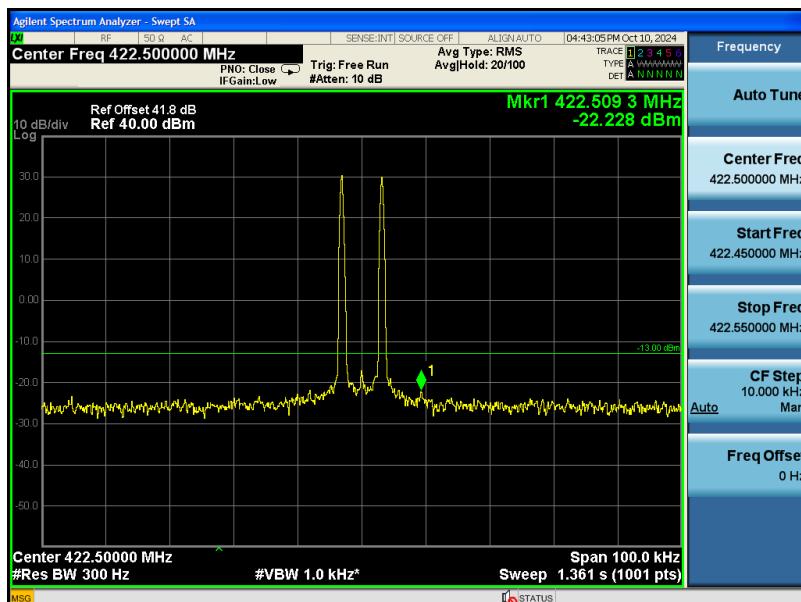


## Intermodulation

## UL\_6.25kHz\_Pre-AGC



## UL\_6.25kHz\_3dB above AGC



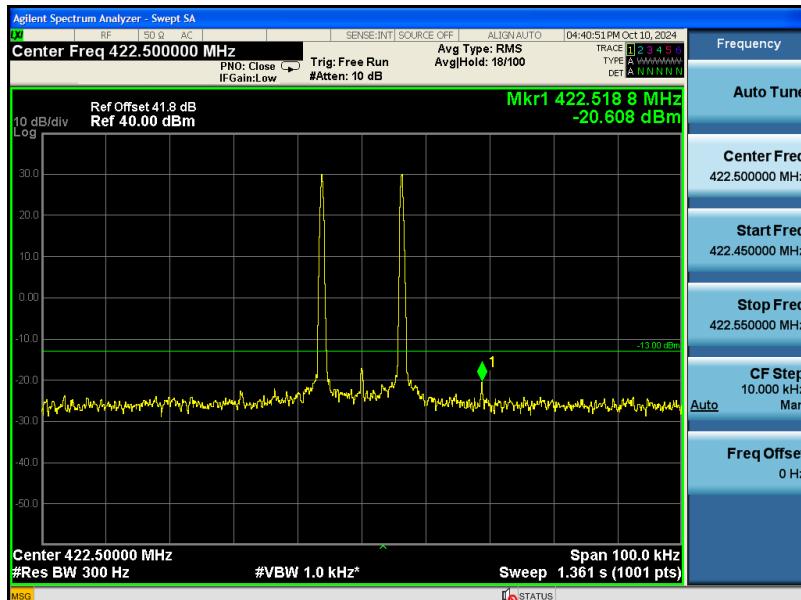
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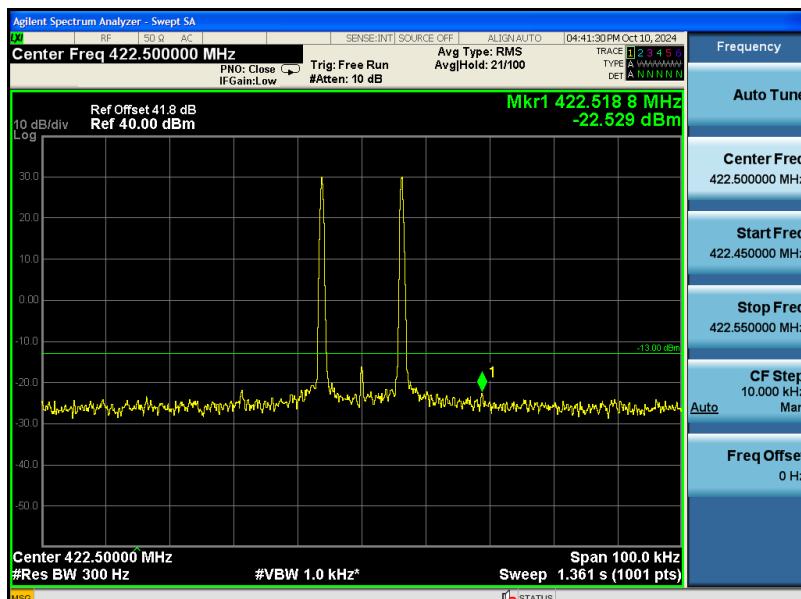


## Intermodulation

## UL\_12.5kHz\_Pre-AGC



## UL\_12.5kHz\_3dB above AGC



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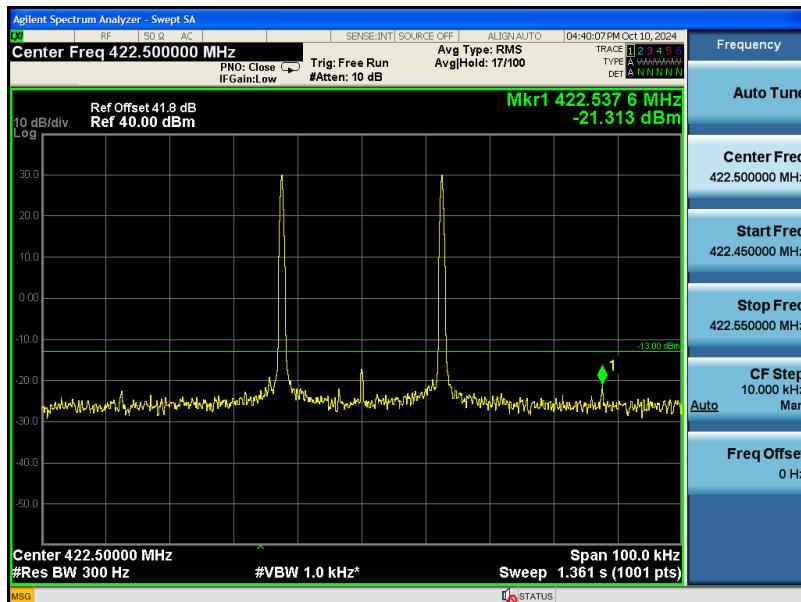


## Intermodulation

## UL\_25kHz\_Pre-AGC



## UL\_25kHz\_3dB above AGC



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## 7 Conducted Spurious emissions

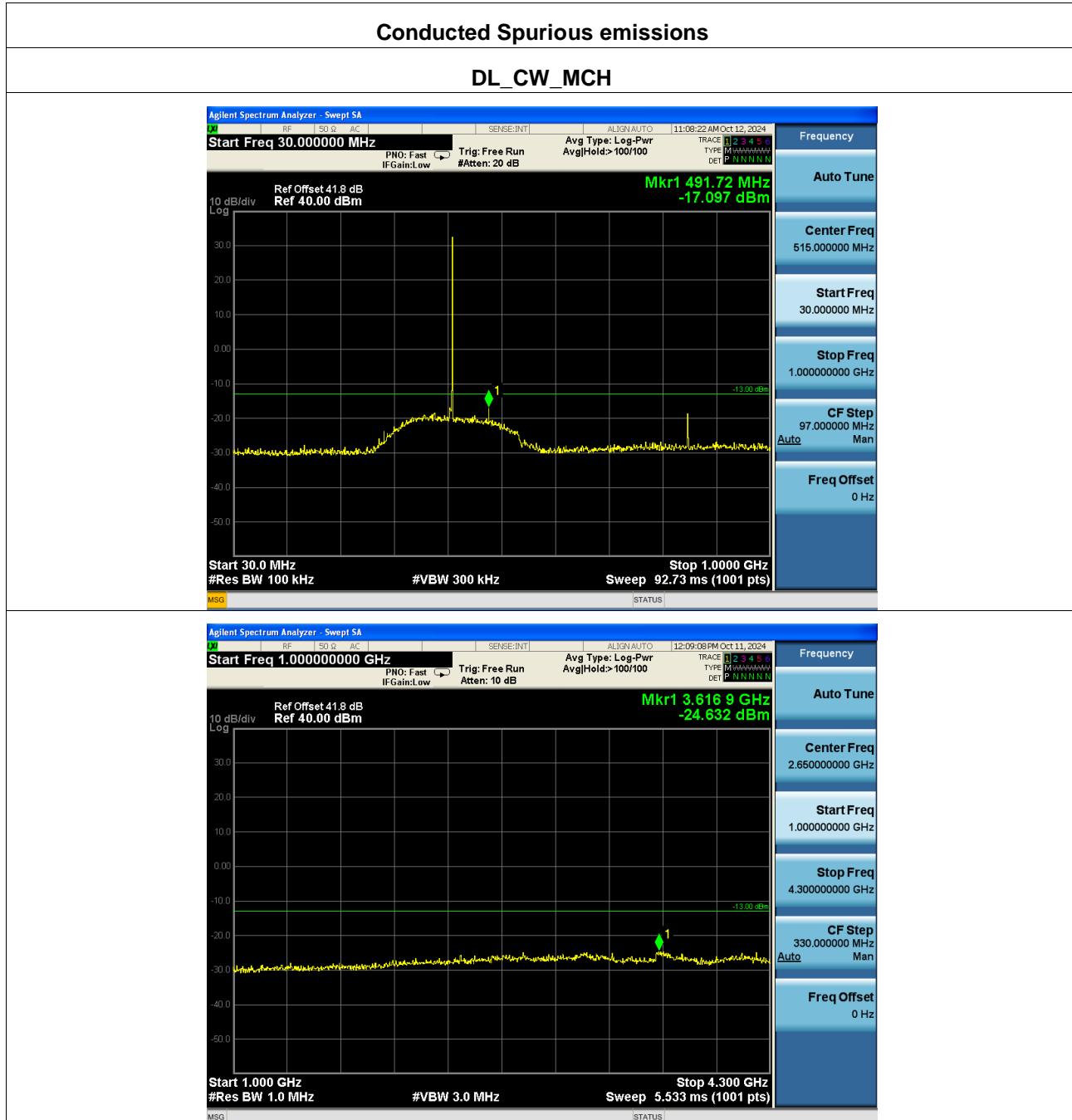
Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.09-30	-39.53	≤-13	PASS
			30-1000	-17.09	≤-13	PASS
			1000-4300	-24.63	≤-13	PASS
UL	CW	MCH	0.09-30	-40.74	≤-13	PASS
			30-1000	-19.04	≤-13	PASS
			1000-4300	-25.06	≤-13	PASS

Remark:  
The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.



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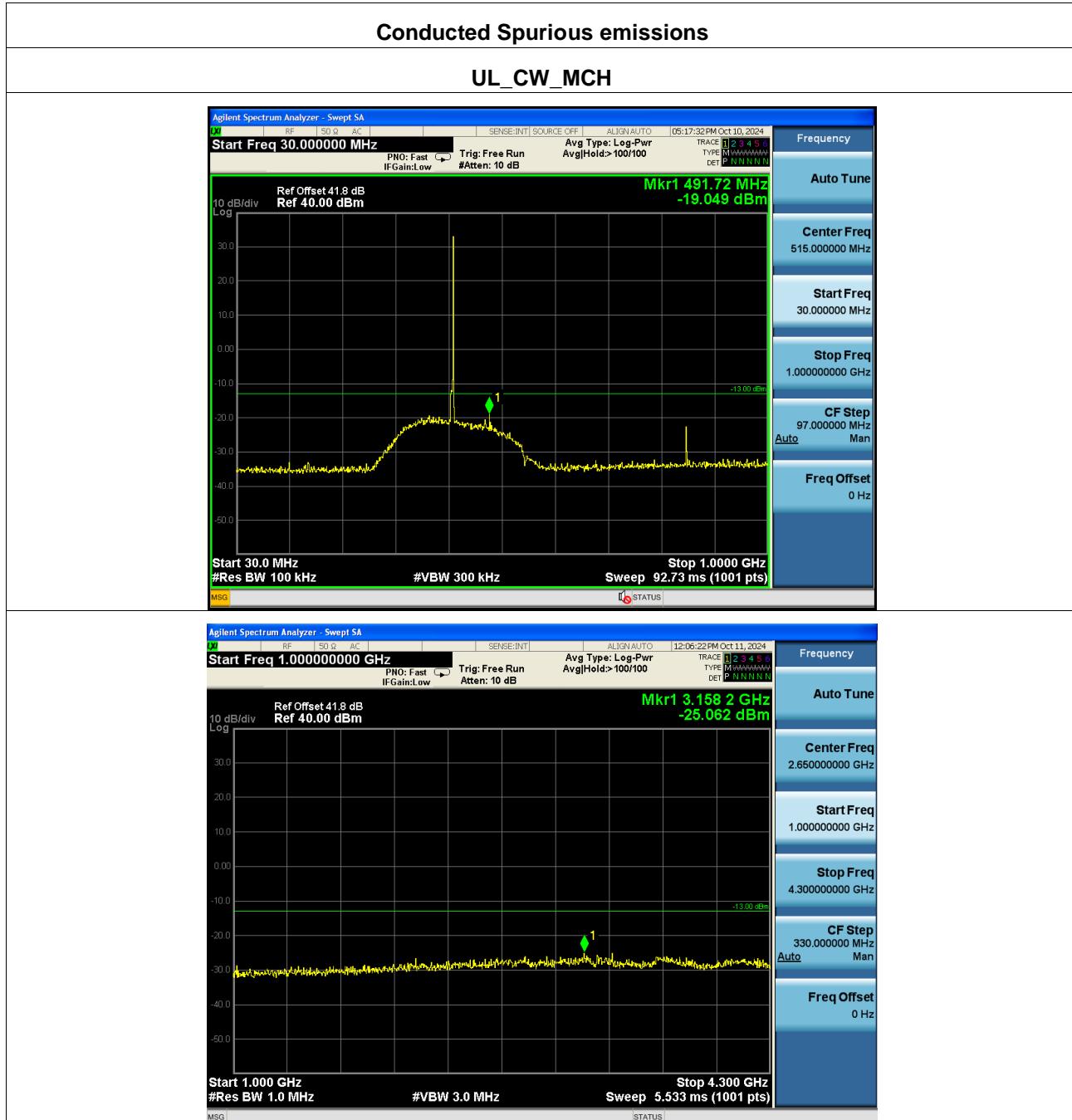
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**8 Noise**

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	421-430	-20.28
UL	421-430	-21.49
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-30	-41.11
	30-420	-39.29
	431-4300	-34.33
UL	0.009-30	-43.94
	30-420	-25.61
	431-4300	-22.09

Remark:

1. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
2. The ERP of worst noise within the passband is -20.28/10kHz+ 0dBi- 2.15dB= -17.93dBm, the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is -22.09/10kHz+ 0dBi- 2.15dB= -19.94dBm, the applicant must use good engineering practice to make sure that the ERP of noise outside the passband should not exceed -70dBm in 10kHz measurement bandwidth.
4. The noise 9kHz to 30MHz were very low and not displayed test plots in this report.

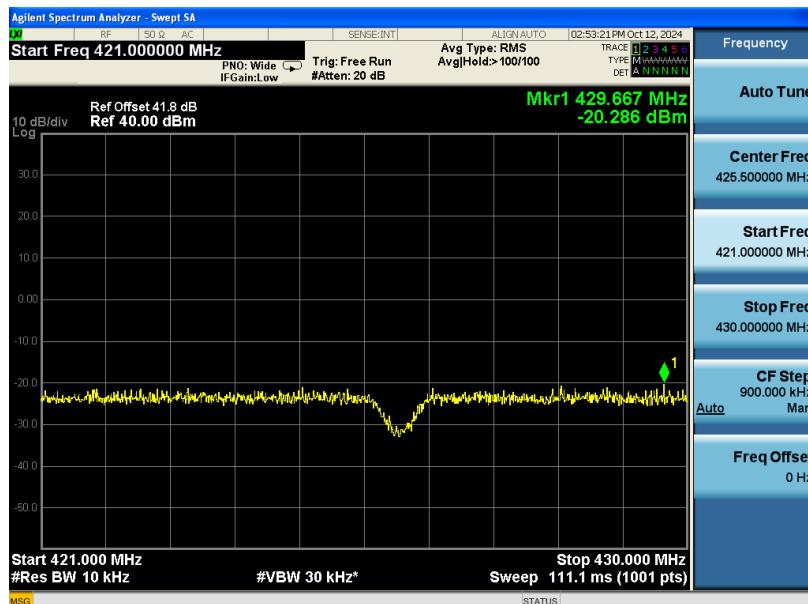


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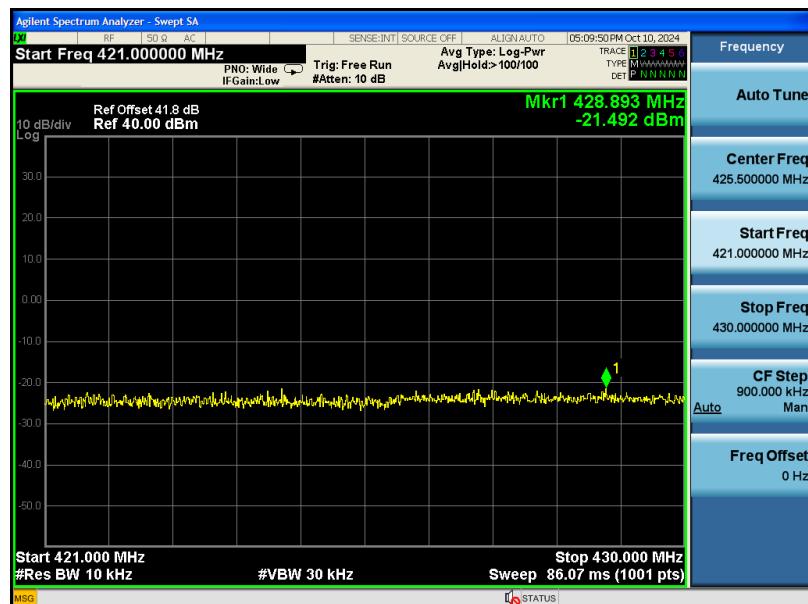
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## Noise within the passband

DL



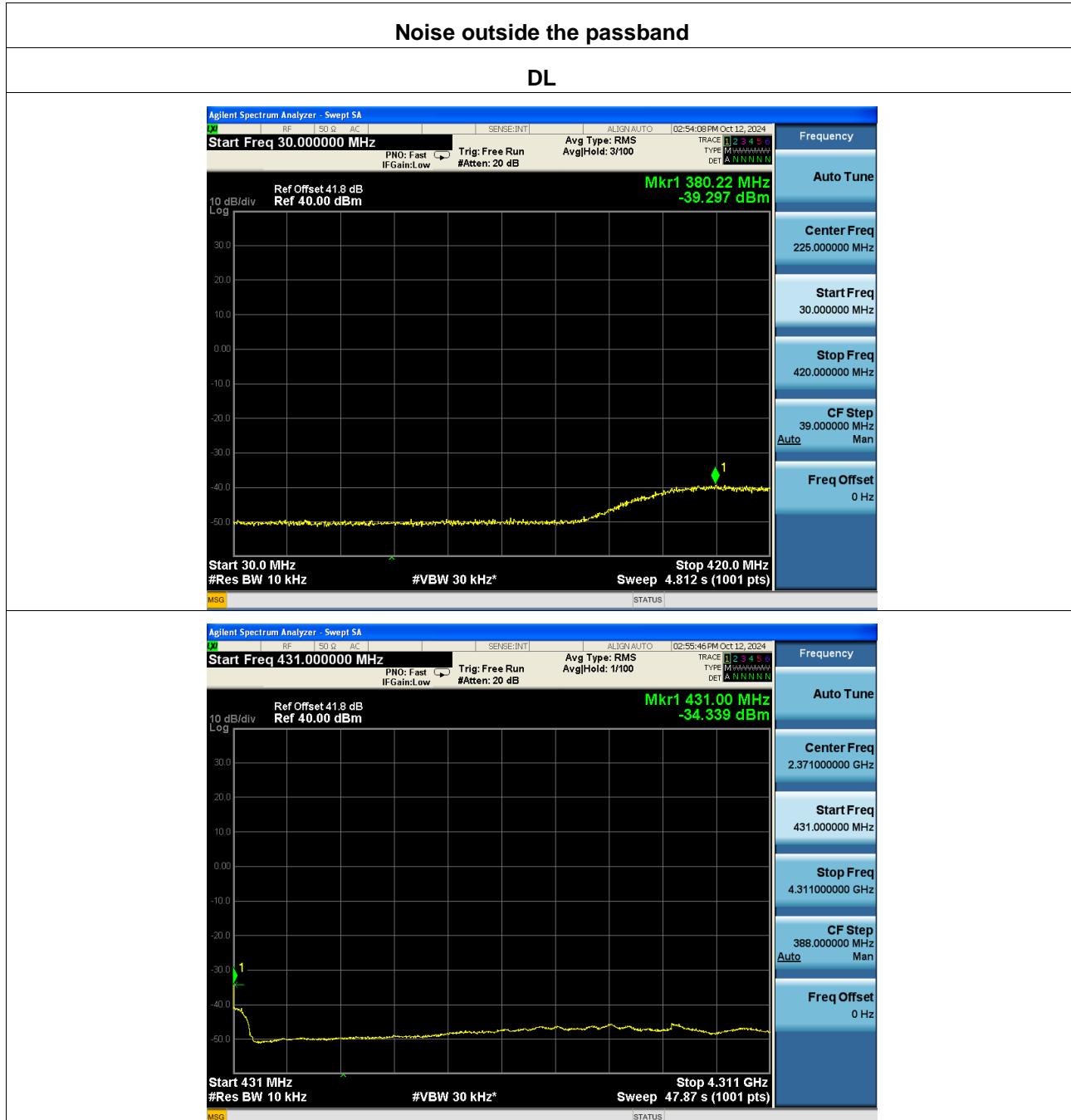
UL



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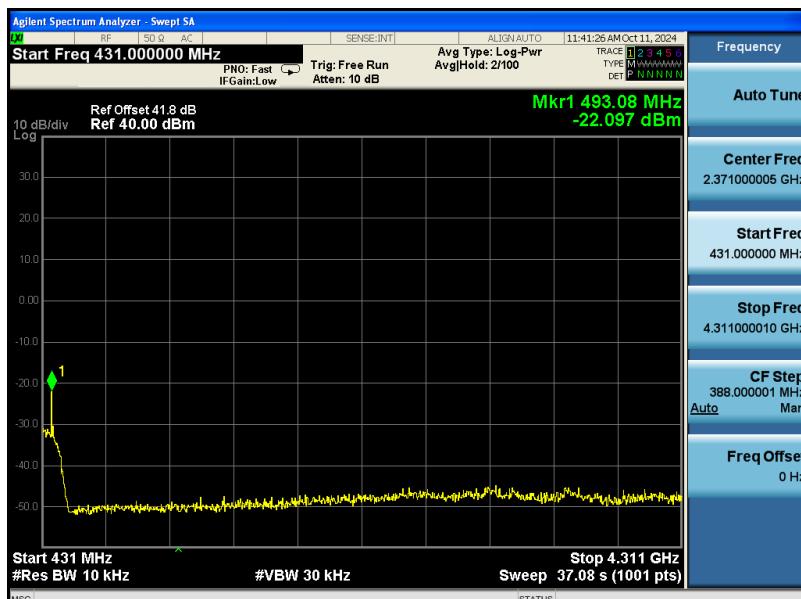


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## Noise outside the passband

UL



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**9 Frequency Stability**

Frequency stability vs voltage							
Test path	Test Signal	Test Channel	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	TN	VL	2.1	0.0049	PASS
			TN	VH	1.8	0.0042	PASS
	DMR	MCH	TN	VL	4.1	0.0096	PASS
			TN	VH	4.2	0.0099	PASS
	C4FM	MCH	TN	VL	4.0	0.0094	PASS
			TN	VH	3.2	0.0075	PASS
	H-DQPSK	MCH	TN	VL	3.9	0.0092	PASS
			TN	VH	3.0	0.0071	PASS
	TETRA	MCH	TN	VL	3.4	0.0080	PASS
			TN	VH	1.4	0.0033	PASS
UL	FM	MCH	TN	VL	2.8	0.0066	PASS
			TN	VH	2.0	0.0047	PASS
	DMR	MCH	TN	VL	2.3	0.0054	PASS
			TN	VH	3.5	0.0082	PASS
	C4FM	MCH	TN	VL	2.3	0.0054	PASS
			TN	VH	1.2	0.0028	PASS
	H-DQPSK	MCH	TN	VL	1.5	0.0035	PASS
			TN	VH	2.5	0.0059	PASS
	TETRA	MCH	TN	VL	2.4	0.0056	PASS
			TN	VH	1.8	0.0042	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
FM	MCH	MCH	VN	+50	3.0	0.0071	PASS
			VN	+40	3.2	0.0075	PASS
			VN	+30	3.0	0.0071	PASS
			VN	+20	2.4	0.0056	PASS
			VN	+10	3.3	0.0078	PASS
			VN	0	4.1	0.0096	PASS
			VN	-10	1.6	0.0038	PASS
			VN	-20	2.5	0.0059	PASS
			VN	-30	1.4	0.0033	PASS
DL	MDR	MCH	VN	+50	4.2	0.0099	PASS
			VN	+40	4.2	0.0099	PASS
			VN	+30	3.0	0.0071	PASS
			VN	+20	2.2	0.0052	PASS
			VN	+10	3.1	0.0073	PASS
			VN	0	2.6	0.0061	PASS
			VN	-10	1.6	0.0038	PASS
			VN	-20	1.8	0.0042	PASS
			VN	-30	2.7	0.0063	PASS
C4FM	MCH	MCH	VN	+50	3.4	0.0080	PASS
			VN	+40	3.9	0.0092	PASS
			VN	+30	2.8	0.0066	PASS
			VN	+20	1.7	0.0040	PASS
			VN	+10	4.0	0.0094	PASS
			VN	0	2.3	0.0054	PASS
			VN	-10	1.7	0.0040	PASS
			VN	-20	3.0	0.0071	PASS
			VN	-30	3.2	0.0075	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	D-HQPSK	MCH	VN	+50	2.4	0.0056	PASS
			VN	+40	2.6	0.0061	PASS
			VN	+30	2.6	0.0061	PASS
			VN	+20	2.9	0.0068	PASS
			VN	+10	2.2	0.0052	PASS
			VN	0	2.1	0.0049	PASS
			VN	-10	1.7	0.0040	PASS
			VN	-20	1.3	0.0031	PASS
			VN	-30	1.7	0.0040	PASS
			VN	+50	1.4	0.0033	PASS
UL	TRTRA	MCH	VN	+40	1.6	0.0038	PASS
			VN	+30	3.0	0.0071	PASS
			VN	+20	2.1	0.0049	PASS
			VN	+10	2.7	0.0063	PASS
			VN	0	1.6	0.0038	PASS
			VN	-10	1.2	0.0028	PASS
			VN	-20	2.1	0.0049	PASS
			VN	-30	3.3	0.0078	PASS
			VN	+50	3.4	0.0080	PASS
			VN	+40	4.1	0.0096	PASS
FM	FM	MCH	VN	+30	2.8	0.0066	PASS
			VN	+20	2.3	0.0054	PASS
			VN	+10	3.5	0.0082	PASS
			VN	0	2.9	0.0068	PASS
			VN	-10	2.4	0.0056	PASS
			VN	-20	2.4	0.0056	PASS
			VN	-30	2.6	0.0061	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	DMR	MCH	VN	+50	2.6	0.0061	PASS
			VN	+40	2.5	0.0059	PASS
			VN	+30	4.2	0.0099	PASS
			VN	+20	2.9	0.0068	PASS
			VN	+10	2.2	0.0052	PASS
			VN	0	1.5	0.0035	PASS
			VN	-10	4.0	0.0094	PASS
			VN	-20	1.8	0.0042	PASS
			VN	-30	1.4	0.0033	PASS
UL	C4FM	MCH	VN	+50	2.6	0.0061	PASS
			VN	+40	3.5	0.0082	PASS
			VN	+30	3.6	0.0085	PASS
			VN	+20	1.9	0.0045	PASS
			VN	+10	3.5	0.0082	PASS
			VN	0	1.7	0.0040	PASS
			VN	-10	3.8	0.0089	PASS
			VN	-20	3.2	0.0075	PASS
			VN	-30	4.1	0.0096	PASS
UL	D-HQPSK	MCH	VN	+50	3.0	0.0071	PASS
			VN	+40	2.9	0.0068	PASS
			VN	+30	1.8	0.0042	PASS
			VN	+20	1.8	0.0042	PASS
			VN	+10	2.0	0.0047	PASS
			VN	0	1.7	0.0040	PASS
			VN	-10	1.5	0.0035	PASS
			VN	-20	2.6	0.0061	PASS
			VN	-30	2.5	0.0059	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	TETRA	MCH	VN	+50	3.9	0.0092	PASS
			VN	+40	2.5	0.0059	PASS
			VN	+30	4.2	0.0099	PASS
			VN	+20	3.9	0.0092	PASS
			VN	+10	2.3	0.0054	PASS
			VN	0	3.9	0.0092	PASS
			VN	-10	2.5	0.0059	PASS
			VN	-20	4.2	0.0099	PASS
			VN	-30	3.9	0.0092	PASS



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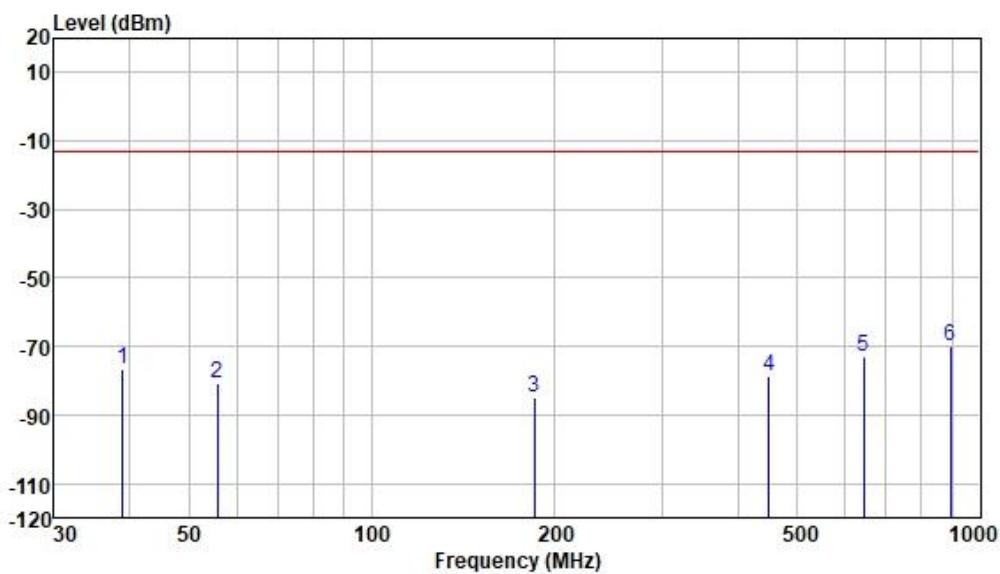
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## 10 Radiated Spurious emissions

### Radiated Spurious emissions

DL\_CW\_MCH\_30MHz-1GHz\_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase		
	Level	Factor	Level	Line			
	MHz	dBm	dB	dBm	dB		
1	38.89	-78.67	2.02	-76.65	-13.00	-63.65	HORIZONTAL
2	55.61	-78.66	-2.06	-80.72	-13.00	-67.72	HORIZONTAL
3	185.14	-78.92	-6.13	-85.05	-13.00	-72.05	HORIZONTAL
4	449.56	-78.69	0.25	-78.44	-13.00	-65.44	HORIZONTAL
5	642.86	-76.88	3.72	-73.16	-13.00	-60.16	HORIZONTAL
6	893.86	-79.05	9.15	-69.90	-13.00	-56.90	HORIZONTAL

#### Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

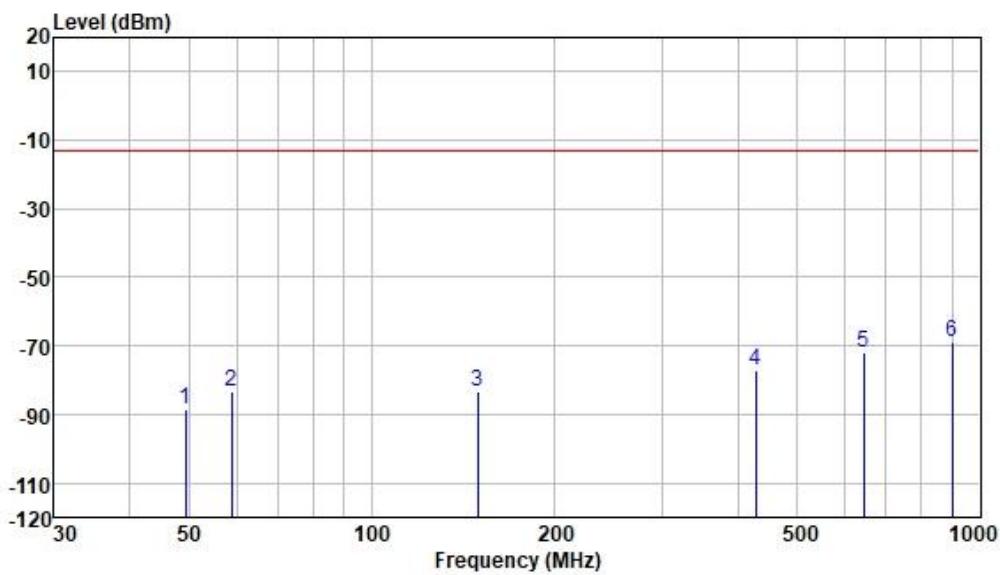


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**Radiated Spurious emissions**

DL\_CW\_MCH\_30MHz-1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	49.36	-80.85	-7.38	-88.23	-13.00	-75.23 VERTICAL
2	58.82	-80.79	-2.44	-83.23	-13.00	-70.23 VERTICAL
3	148.96	-79.30	-3.94	-83.24	-13.00	-70.24 VERTICAL
4	428.02	-78.31	1.22	-77.09	-13.00	-64.09 VERTICAL
5	642.86	-76.73	4.66	-72.07	-13.00	-59.07 VERTICAL
6	900.15	-79.27	10.65	-68.62	-13.00	-55.62 VERTICAL

**Remark:**

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.



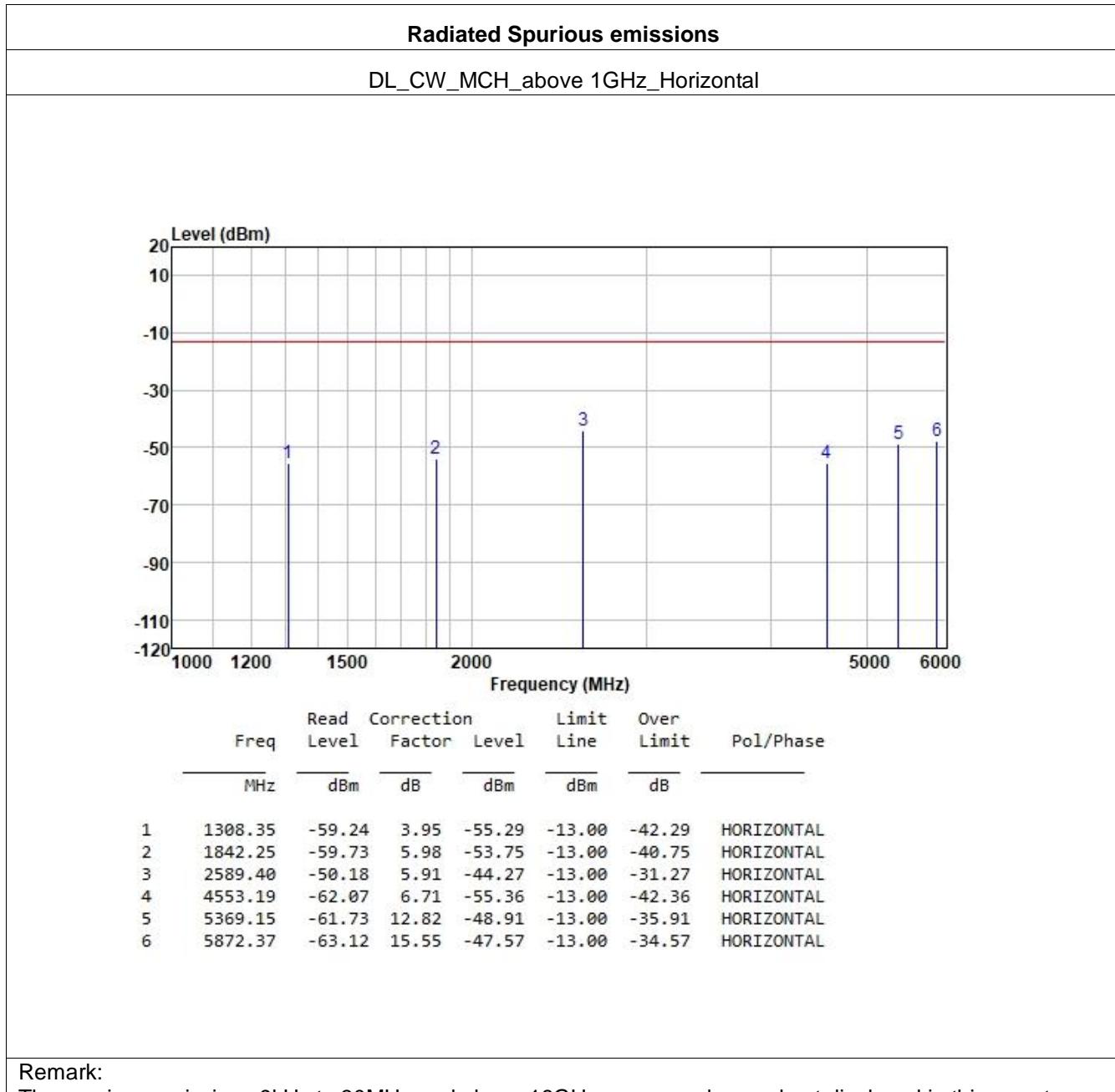
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**Remark:**

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

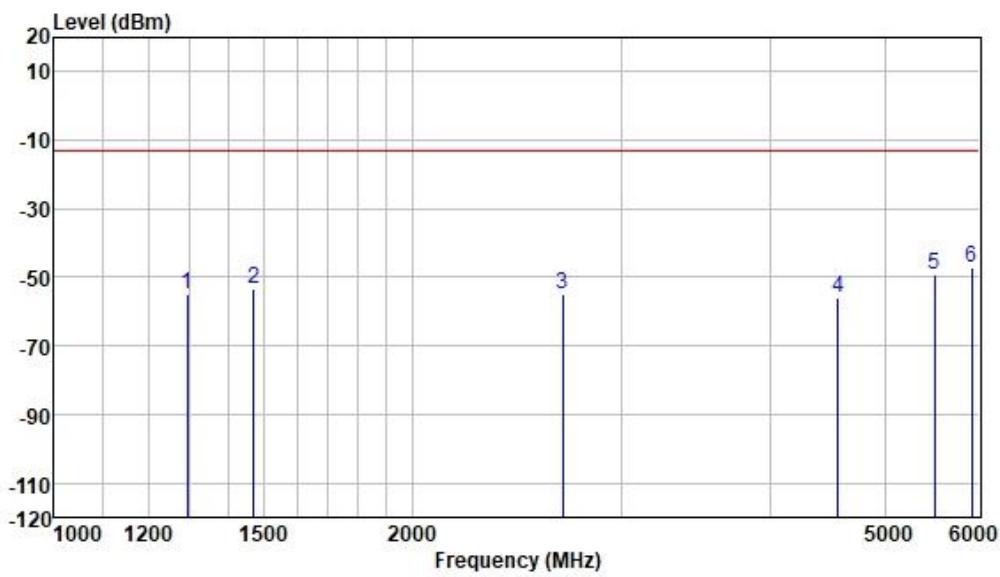


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## Radiated Spurious emissions

DL\_CW\_MCH\_above 1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase		
	MHz	Level	Factor	Level			
	MHz	dBm	dB	dBm	dBm	dB	
1	1294.36	-59.03	4.32	-54.71	-13.00	-41.71	VERTICAL
2	1472.59	-59.97	6.38	-53.59	-13.00	-40.59	VERTICAL
3	2674.27	-60.02	5.23	-54.79	-13.00	-41.79	VERTICAL
4	4561.36	-62.36	6.56	-55.80	-13.00	-42.80	VERTICAL
5	5495.69	-63.56	14.57	-48.99	-13.00	-35.99	VERTICAL
6	5904.02	-62.99	16.07	-46.92	-13.00	-33.92	VERTICAL

## Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

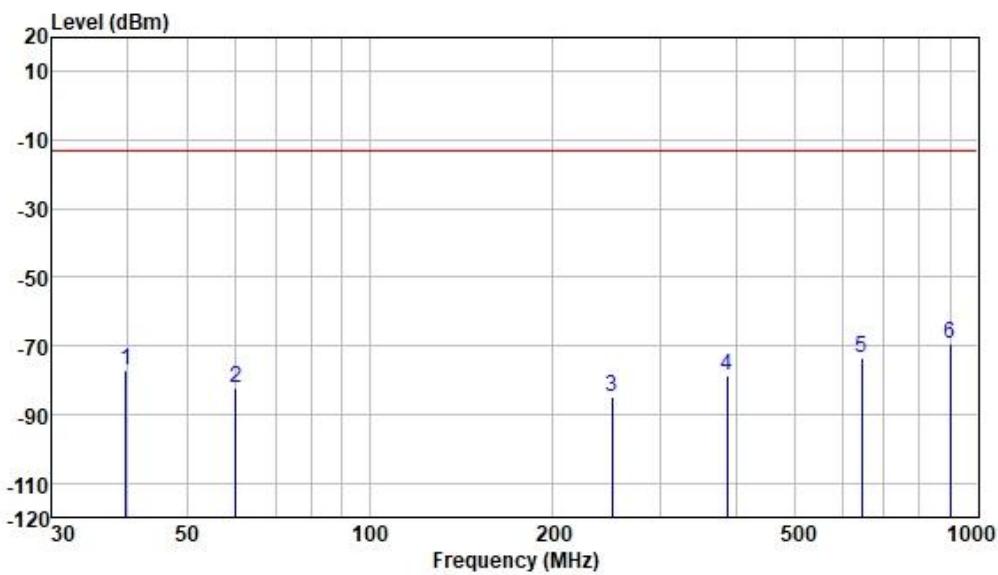


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## Radiated Spurious emissions

UL\_CW\_MCH\_30MHz-1GHz\_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase	
	MHz	dBm	dB	dBm		
1	39.71	-78.93	1.90	-77.03	-13.00	-64.03 HORIZONTAL
2	60.07	-79.78	-2.52	-82.30	-13.00	-69.30 HORIZONTAL
3	250.30	-79.54	-5.40	-84.94	-13.00	-71.94 HORIZONTAL
4	386.63	-77.75	-1.10	-78.85	-13.00	-65.85 HORIZONTAL
5	642.86	-77.29	3.72	-73.57	-13.00	-60.57 HORIZONTAL
6	900.15	-78.68	9.45	-69.23	-13.00	-56.23 HORIZONTAL

## Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

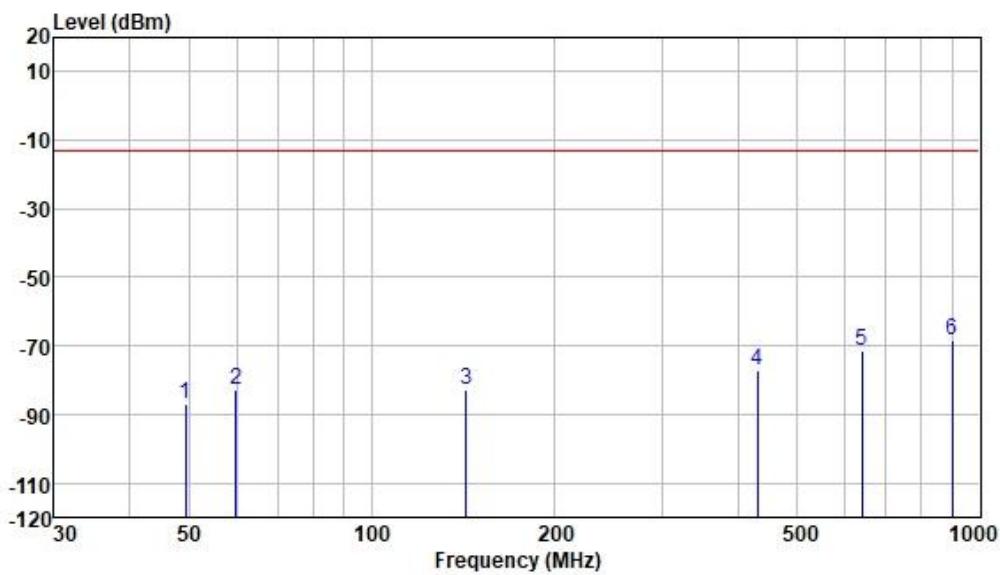


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## Radiated Spurious emissions

UL\_CW\_MCH\_30MHz-1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	49.36	-79.52	-7.38	-86.90	-13.00	-73.90 VERTICAL
2	59.65	-80.46	-2.21	-82.67	-13.00	-69.67 VERTICAL
3	142.82	-78.91	-3.93	-82.84	-13.00	-69.84 VERTICAL
4	431.03	-78.28	1.29	-76.99	-13.00	-63.99 VERTICAL
5	638.37	-76.23	4.62	-71.61	-13.00	-58.61 VERTICAL
6	900.15	-79.21	10.65	-68.56	-13.00	-55.56 VERTICAL

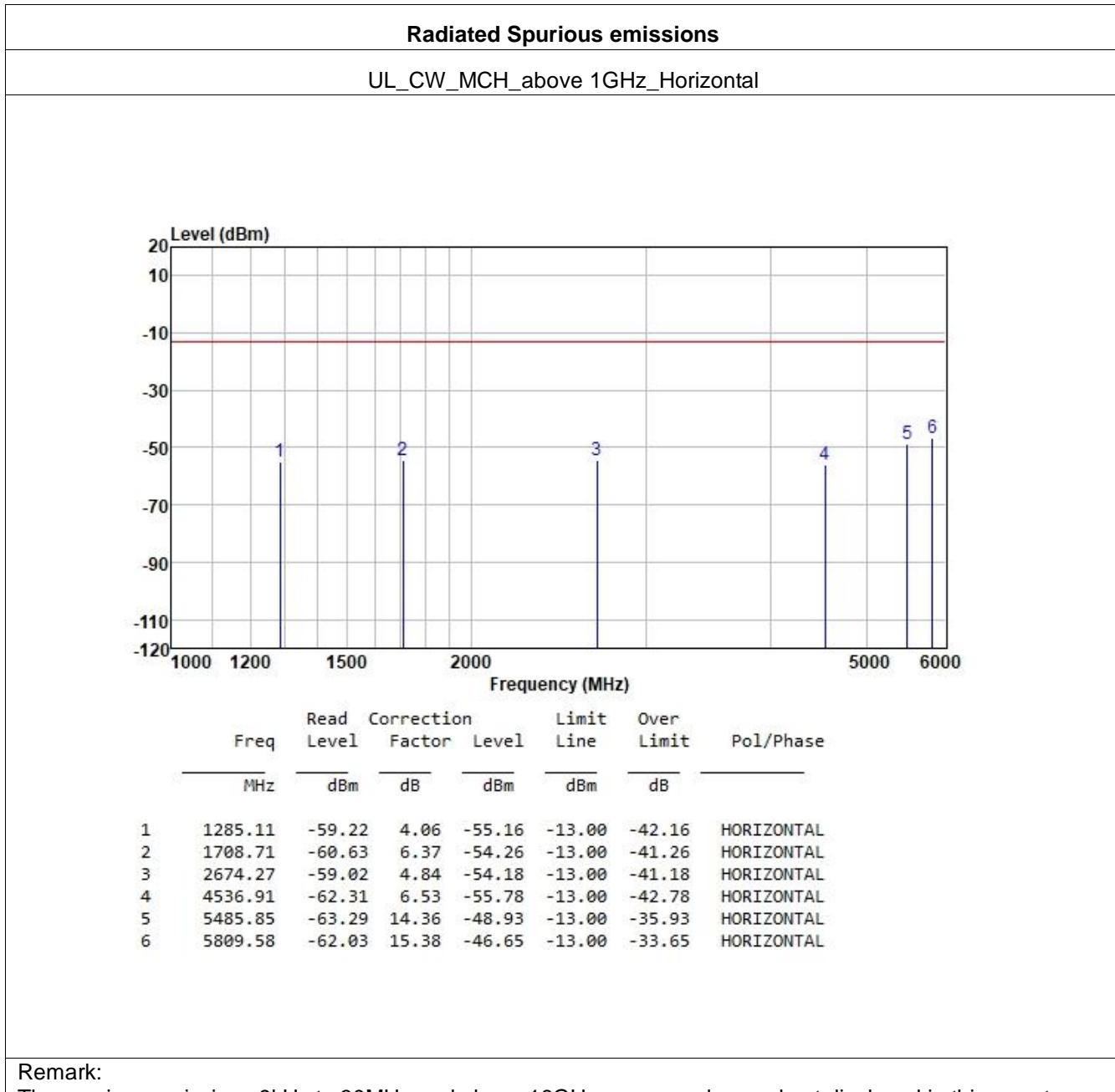
## Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.



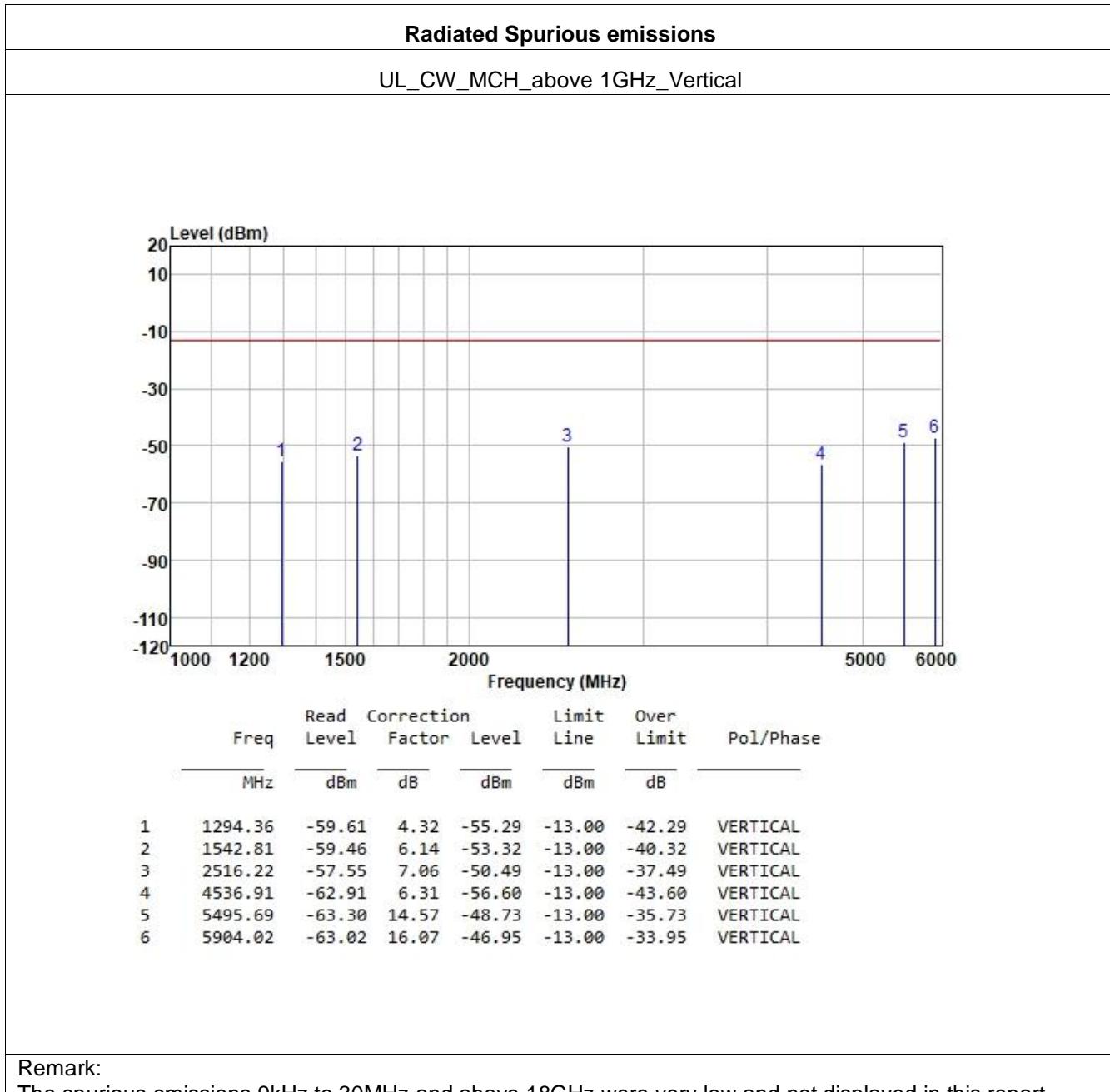
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**--End of Appendix--**



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