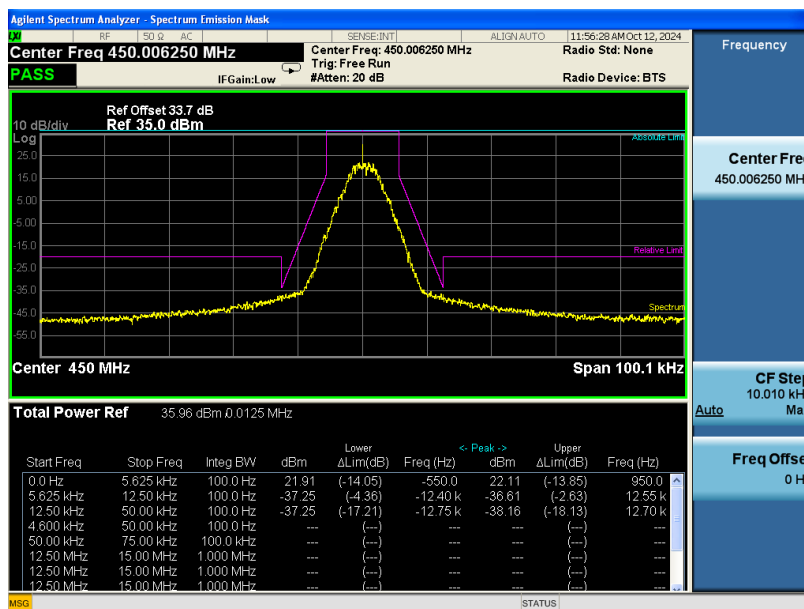
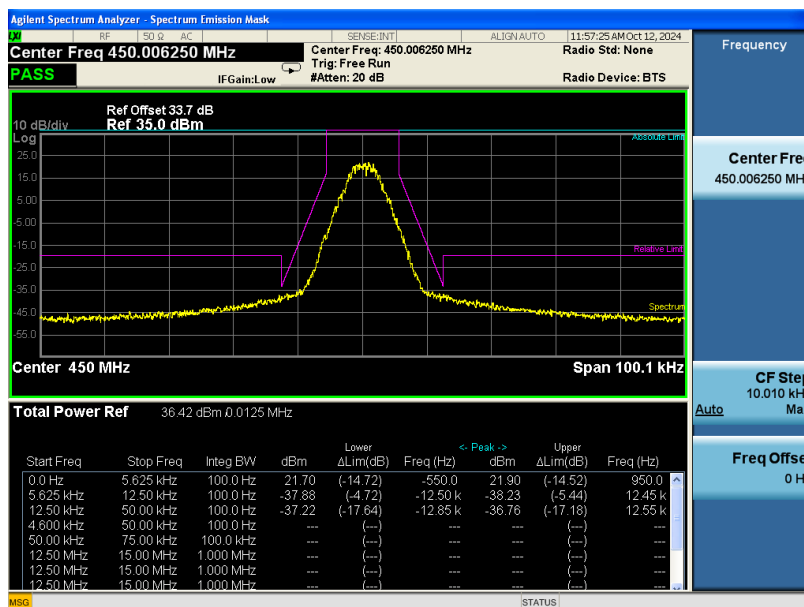


Emission Masks

DL_DMR_LCH_Pre-AGC

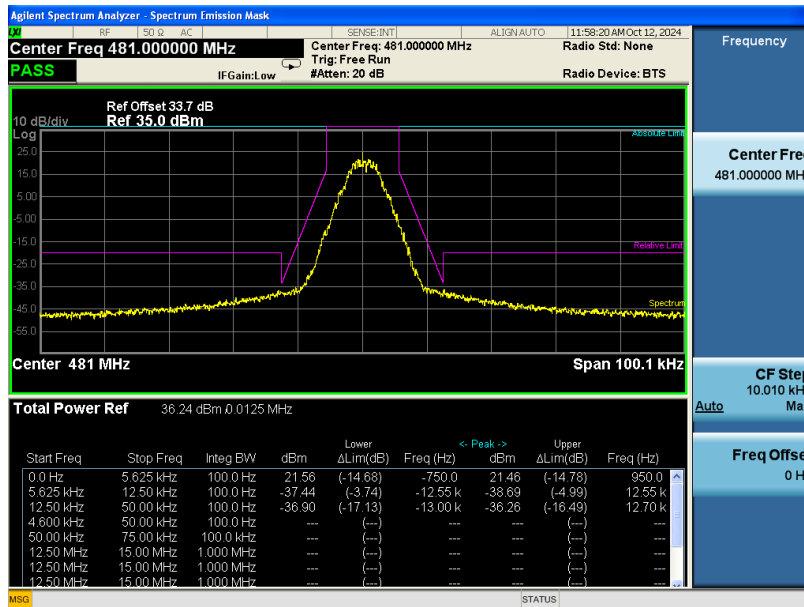


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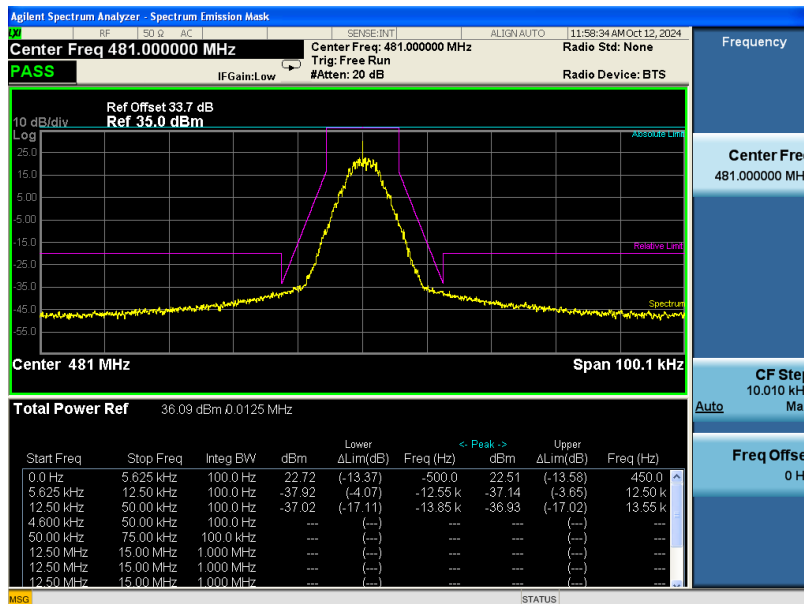


Emission Masks

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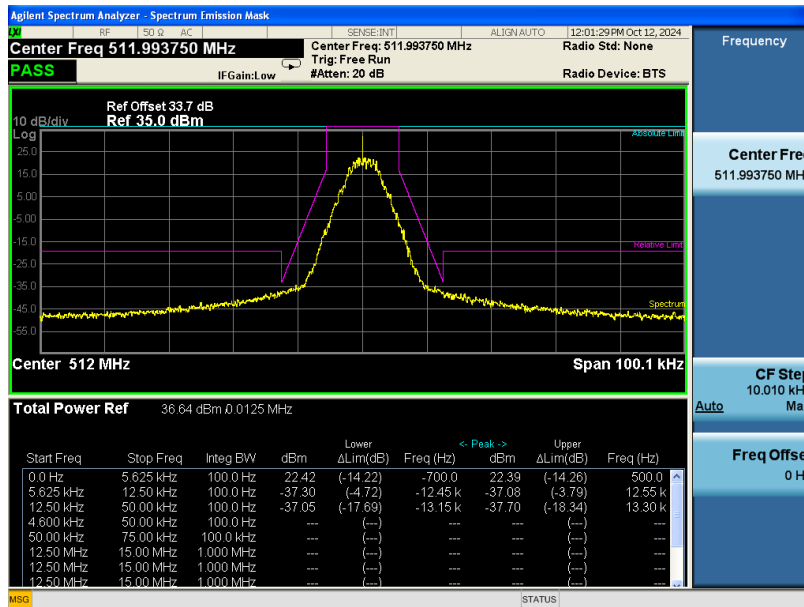


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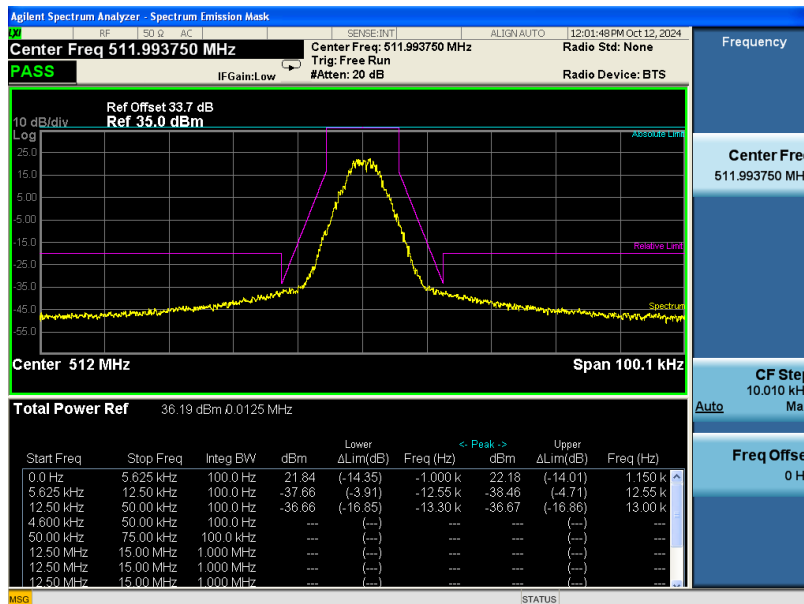


Emission Masks

DL_DMR_HCH_Pre-AGC

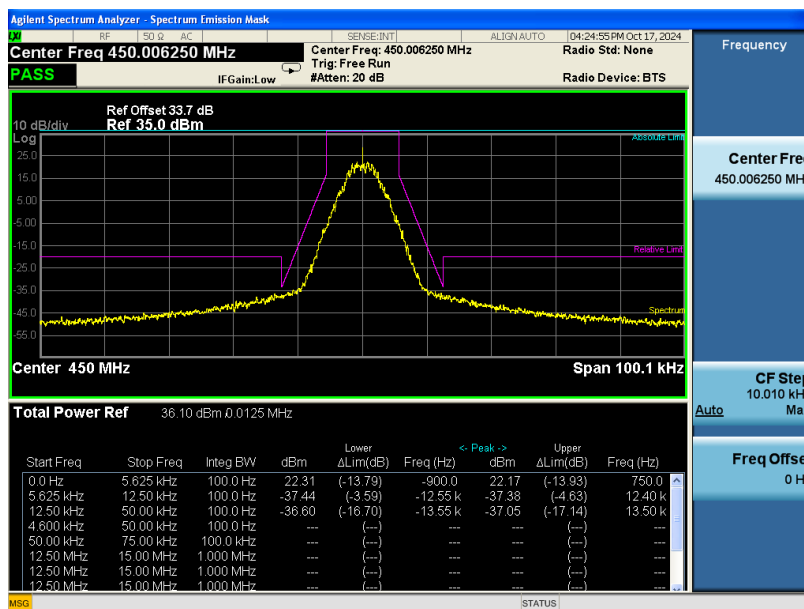


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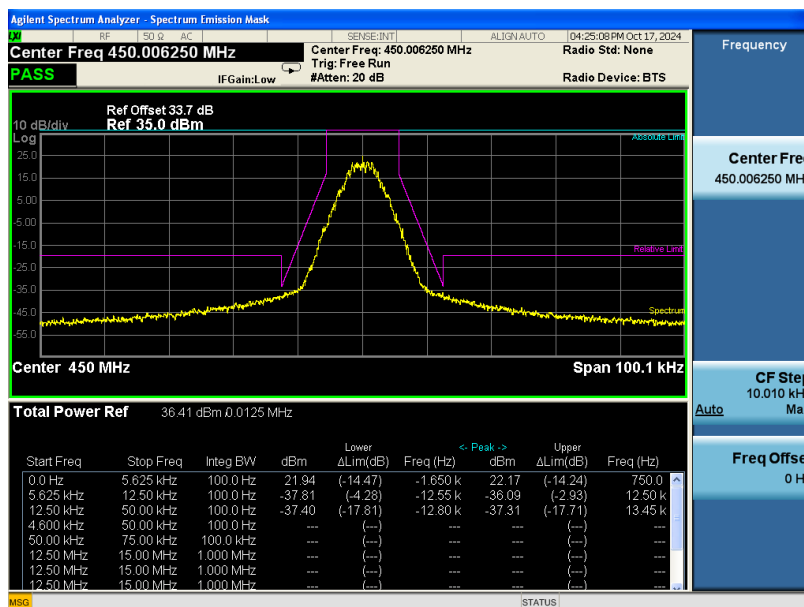


Emission Masks

DL_C4FM_LCH_Pre-AGC



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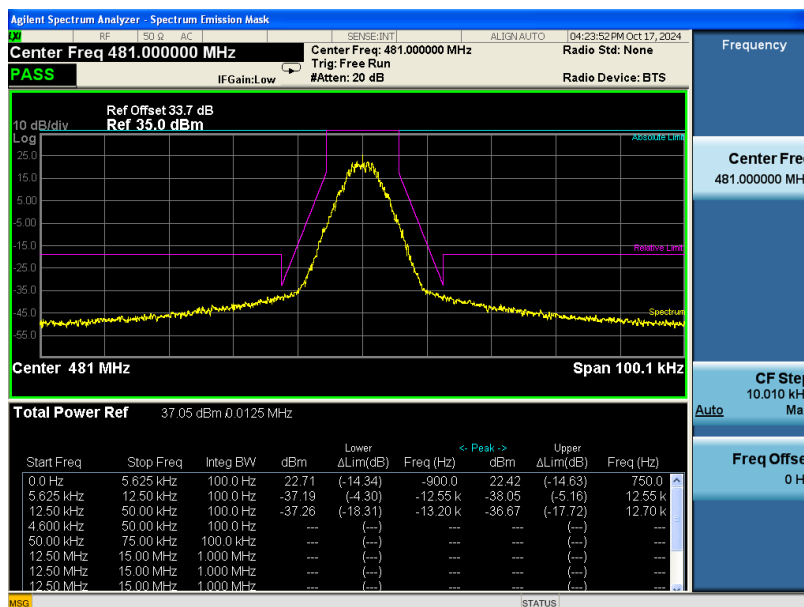


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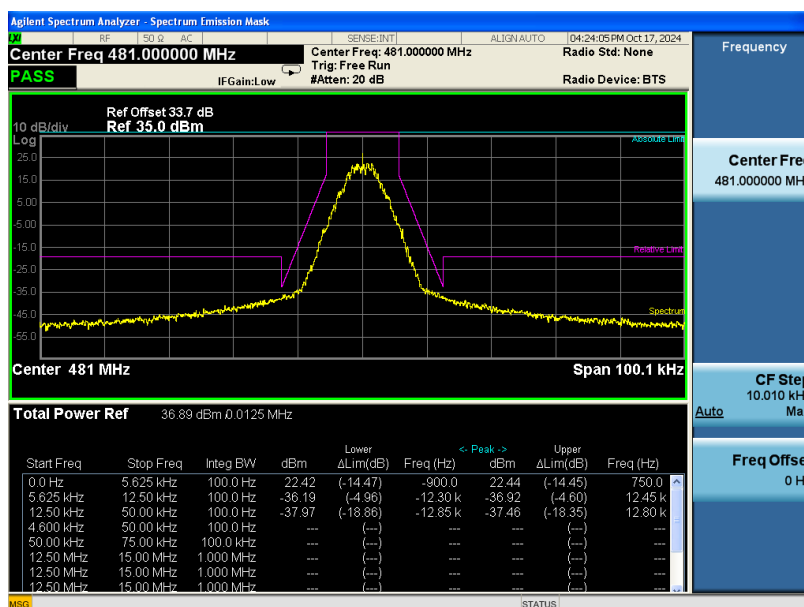
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Emission Masks

DL_C4FM_MCH_Pre-AGC

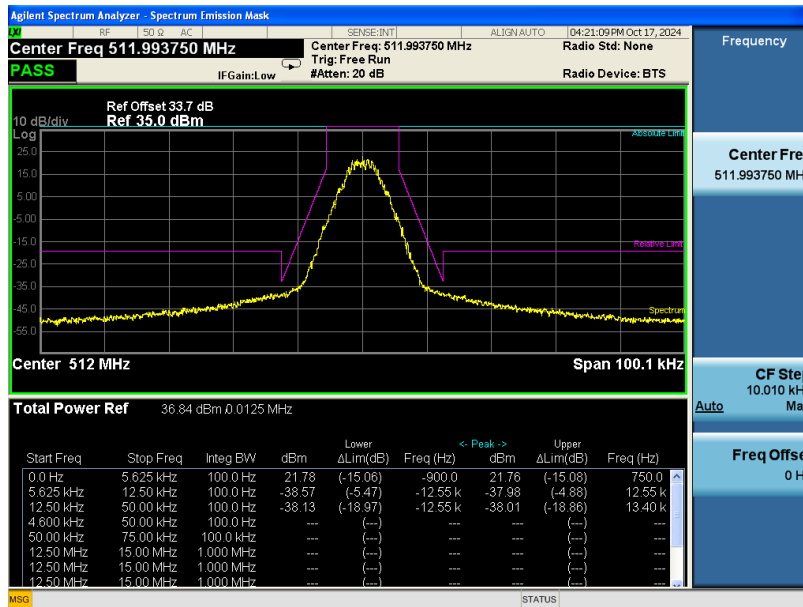


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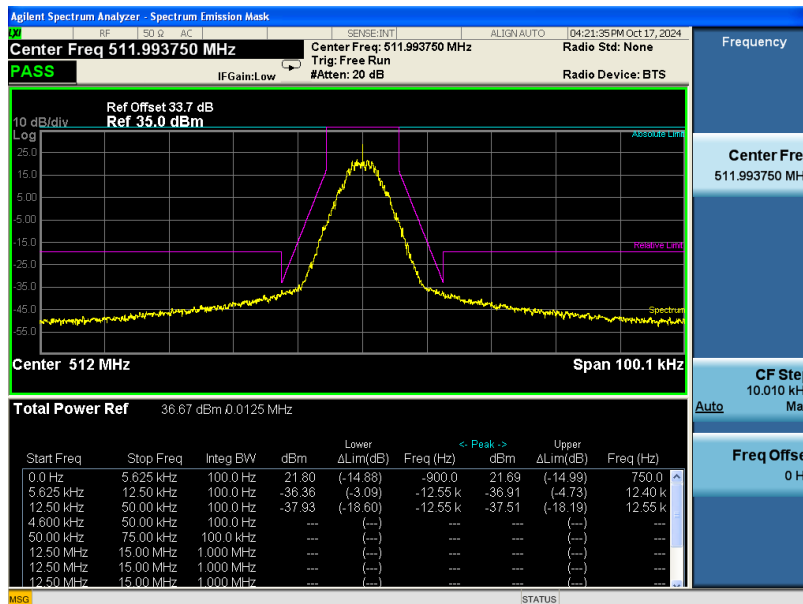


Emission Masks

DL_C4FM_HCH_Pre-AGC

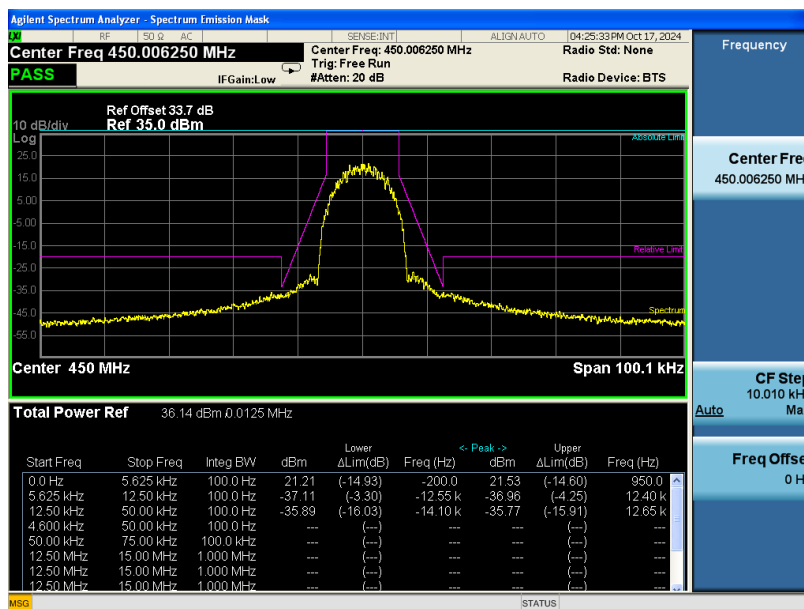


DL_C4FM_HCH_3dB above AGC

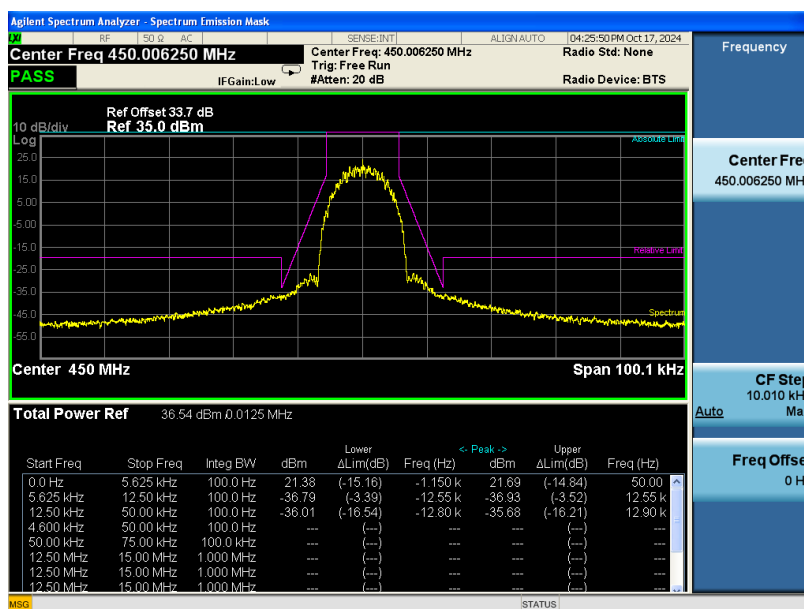


Emission Masks

DL_H-DQPSK_LCH_Pre-AGC



DL_H-DQPSK_LCH_3dB above AGC

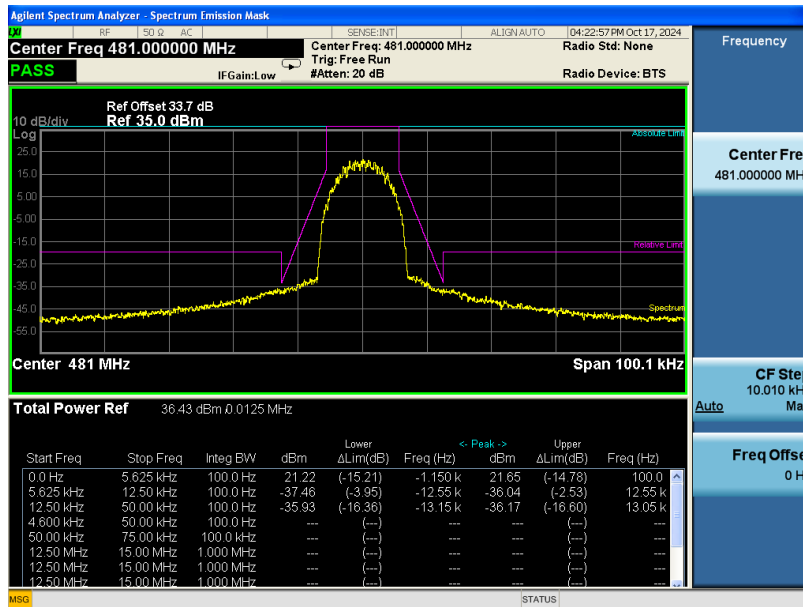


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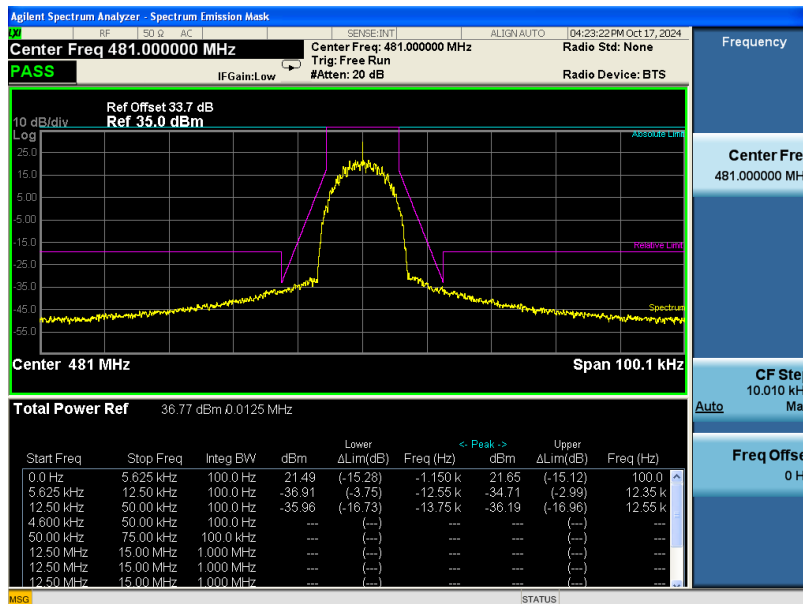
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Emission Masks

DL_H-DQPSK_MCH_Pre-AGC

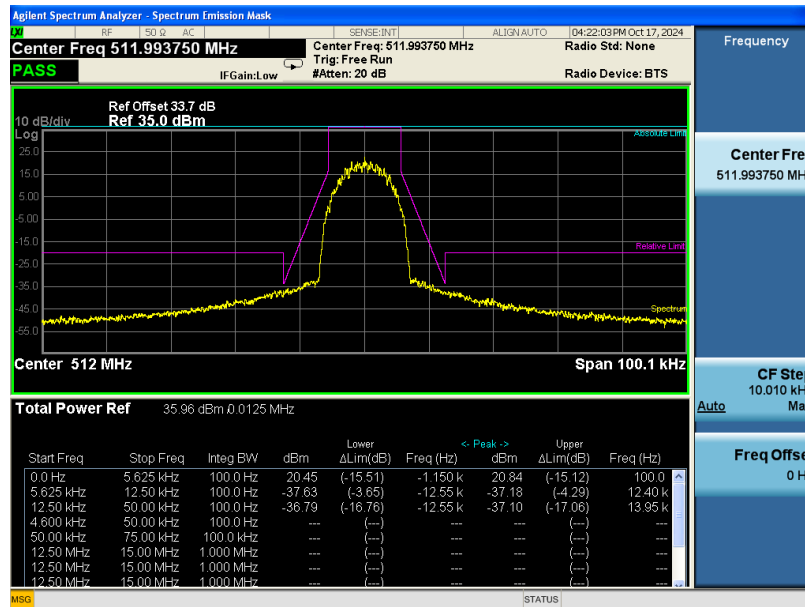


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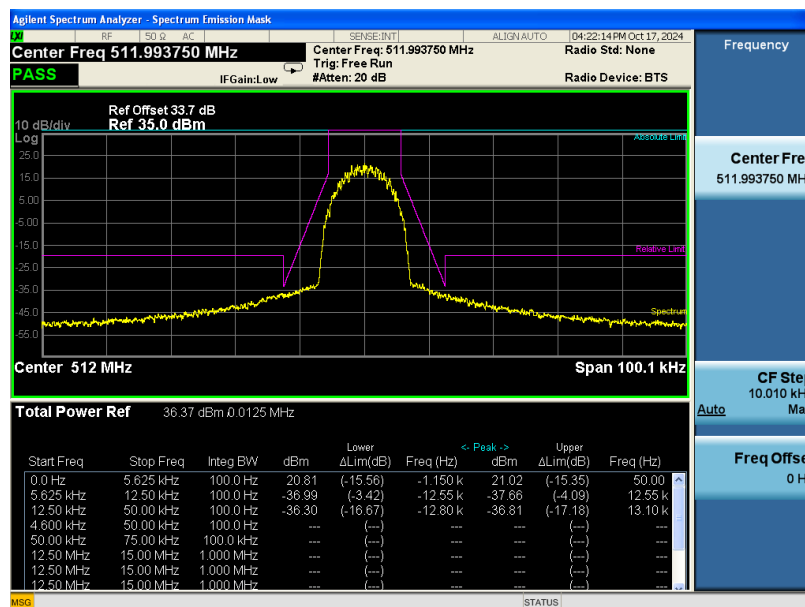


Emission Masks

DL_H-DQPSK_HCH_Pre-AGC

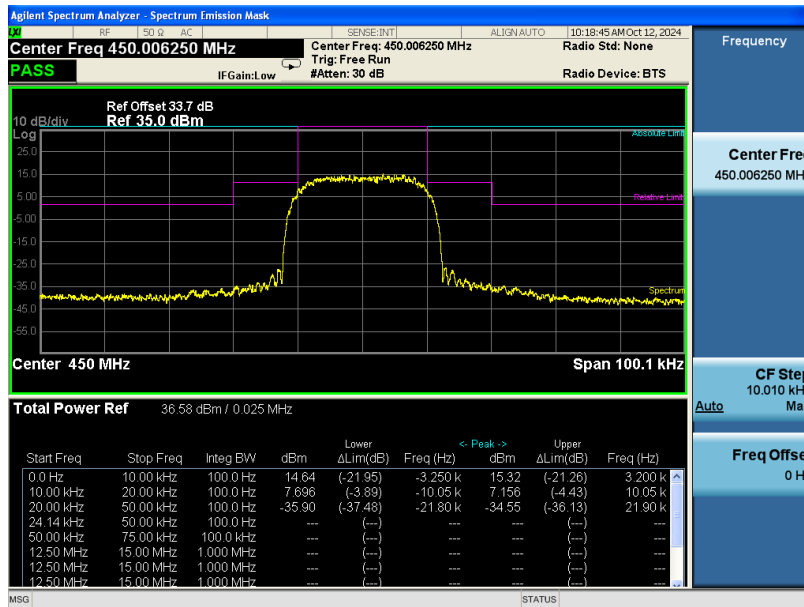


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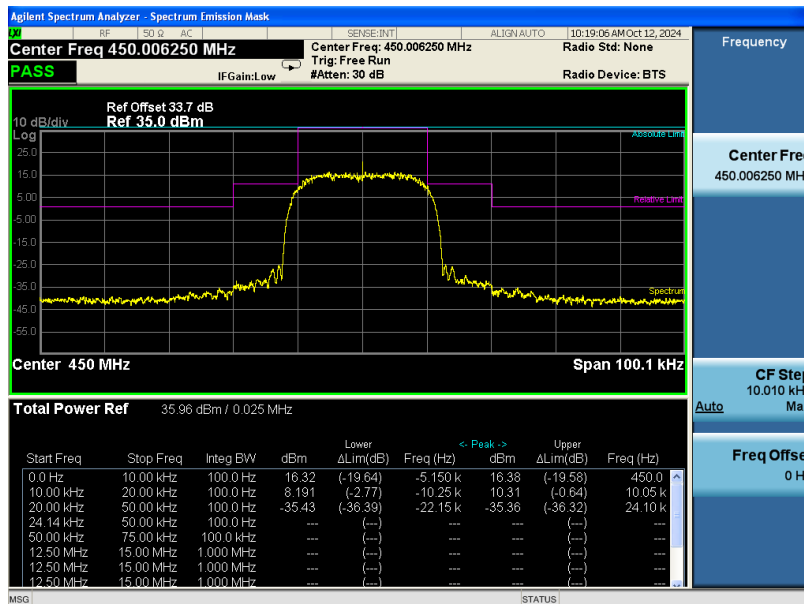


Emission Masks

DL_TETRA_LCH_Pre-AGC

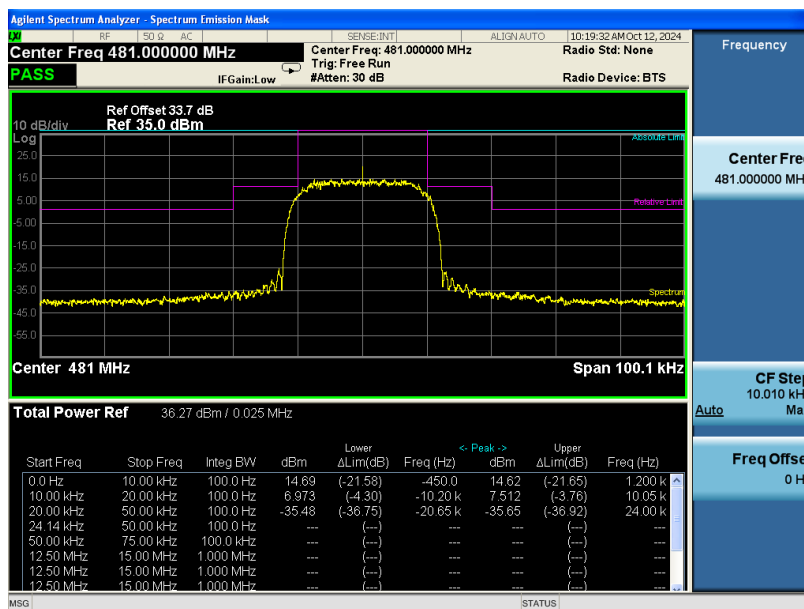


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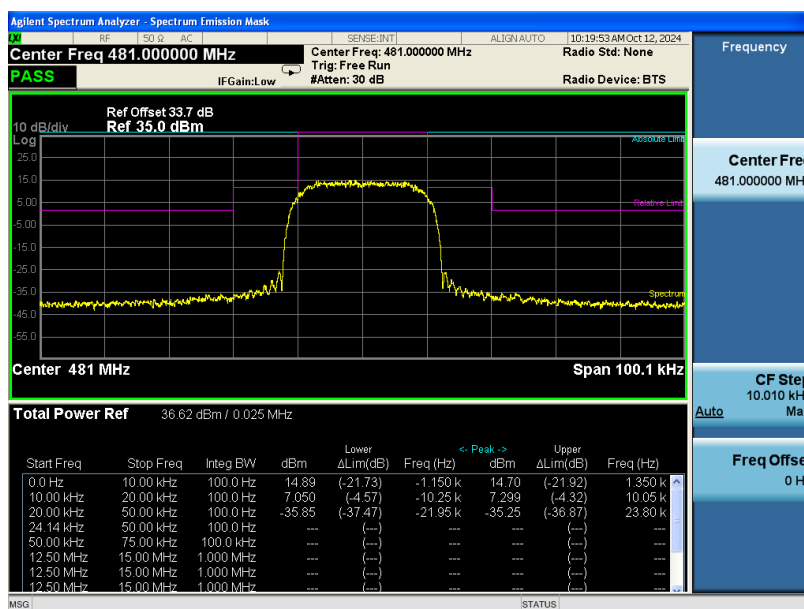


Emission Masks

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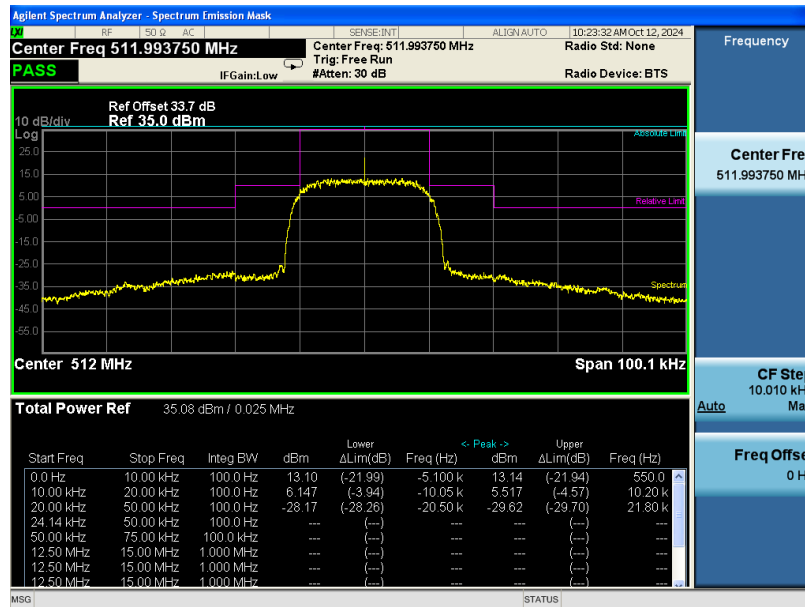


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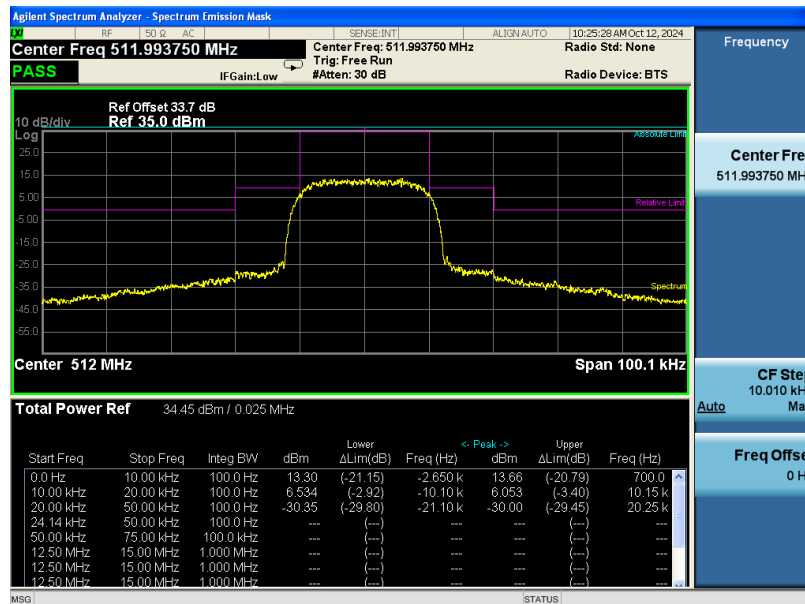


Emission Masks

DL_TETRA_HCH_Pre-AGC

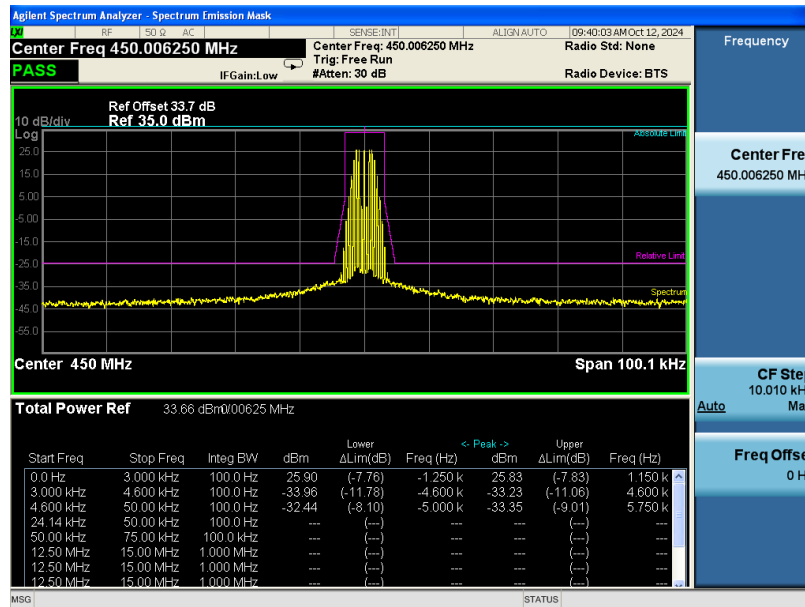


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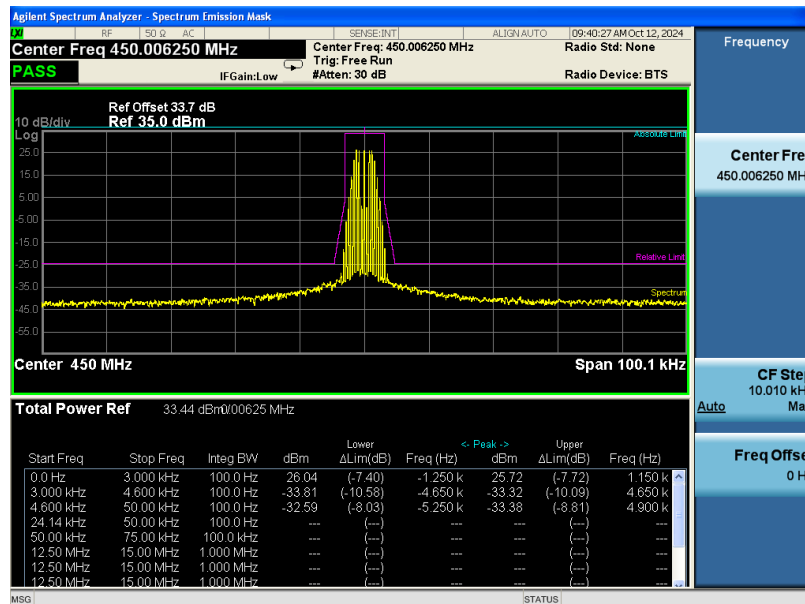


Emission Masks

UL_FM_LCH_Pre-AGC

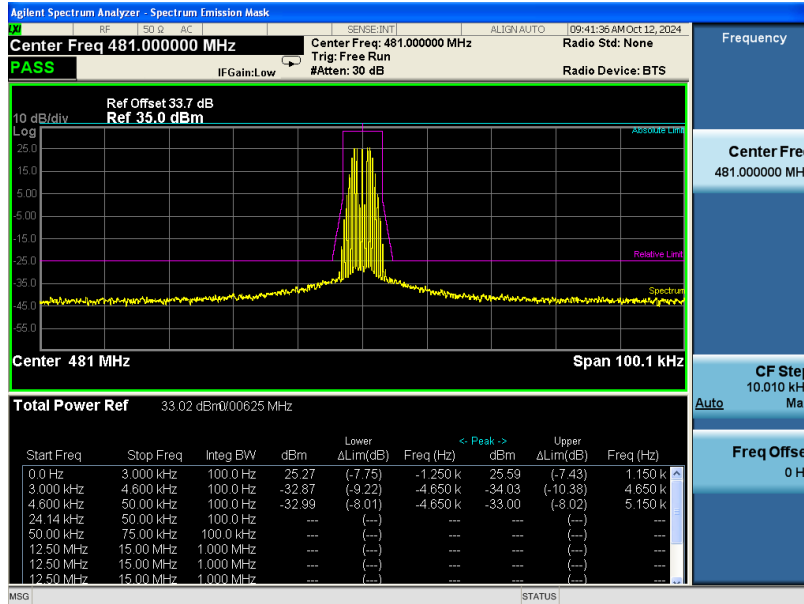


UL_FM_LCH_3dB above AGC

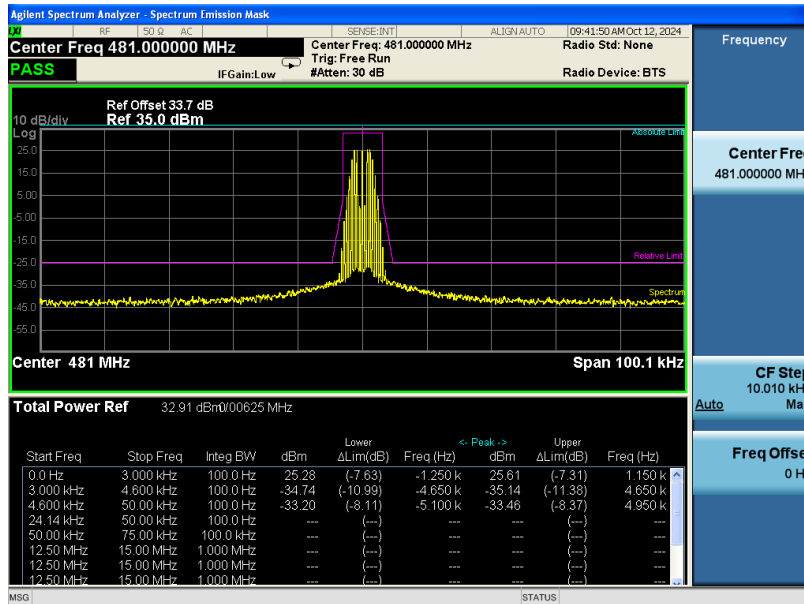


Emission Masks

UL_FM_MCH_Pre-AGC

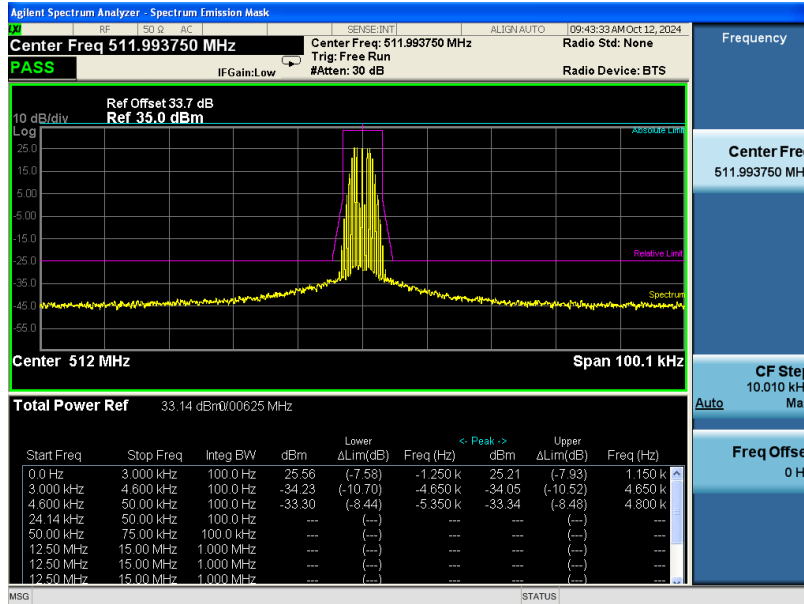


UL_FM_MCH_3dB above AGC

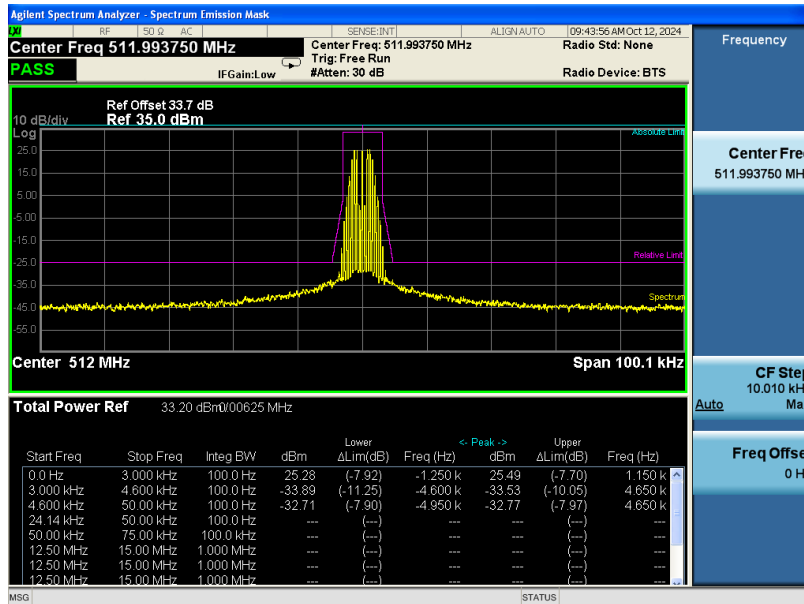


Emission Masks

UL_FM_HCH_Pre-AGC

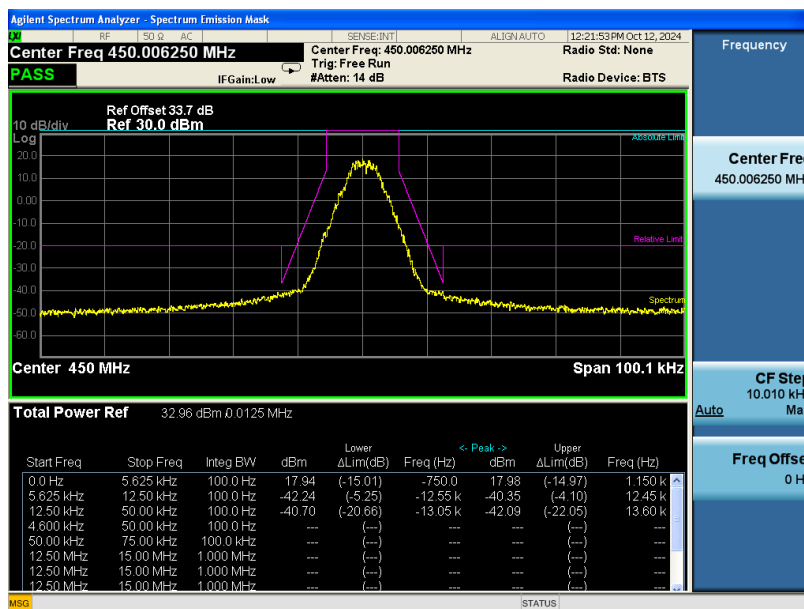


UL_FM_HCH_3dB above AGC

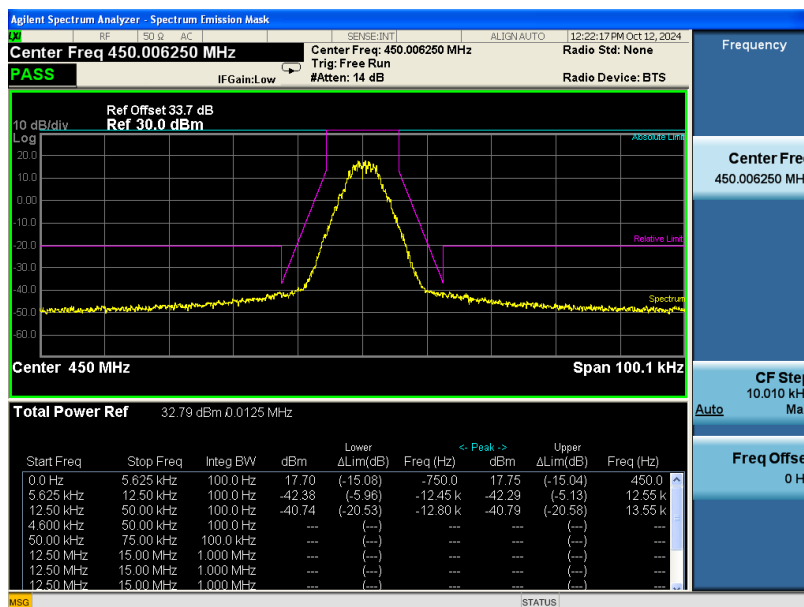


Emission Masks

UL_DMR_LCH_Pre-AGC



UL_DMR_LCH_3dB above AGC

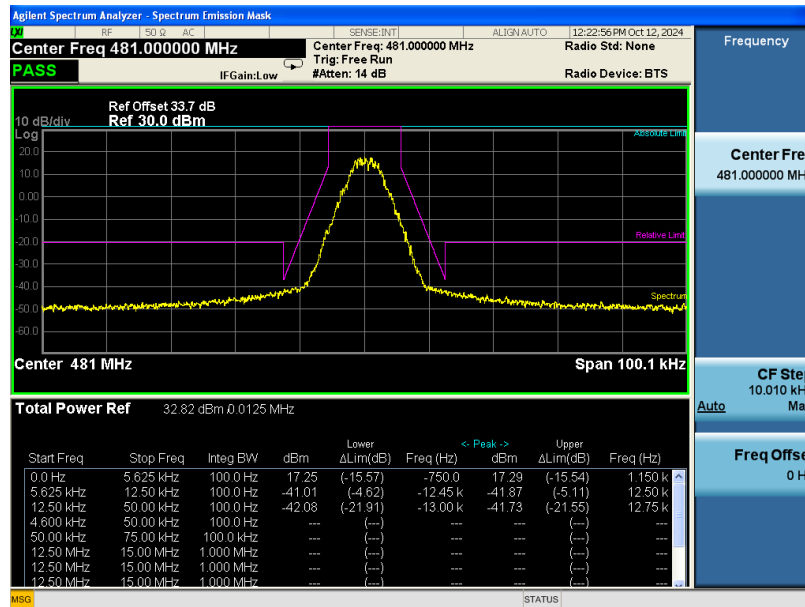


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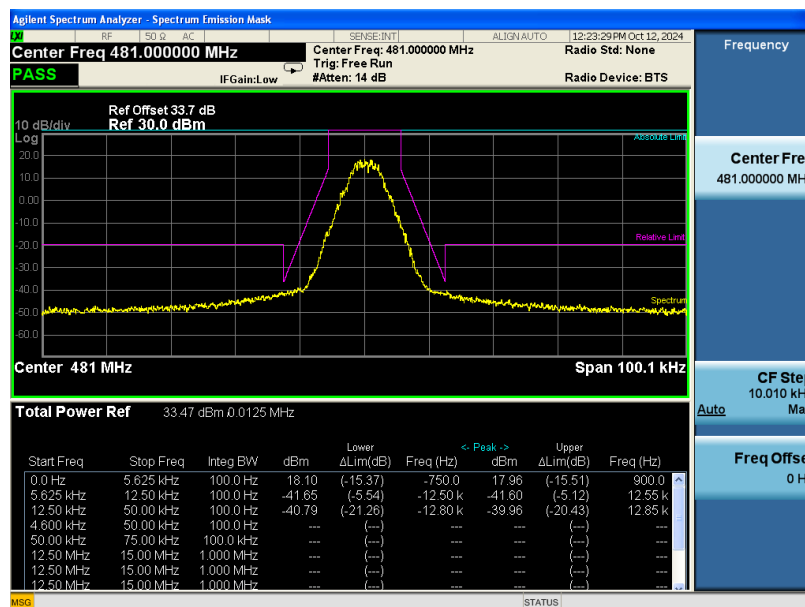
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Emission Masks

UL_DMR_MCH_Pre-AGC

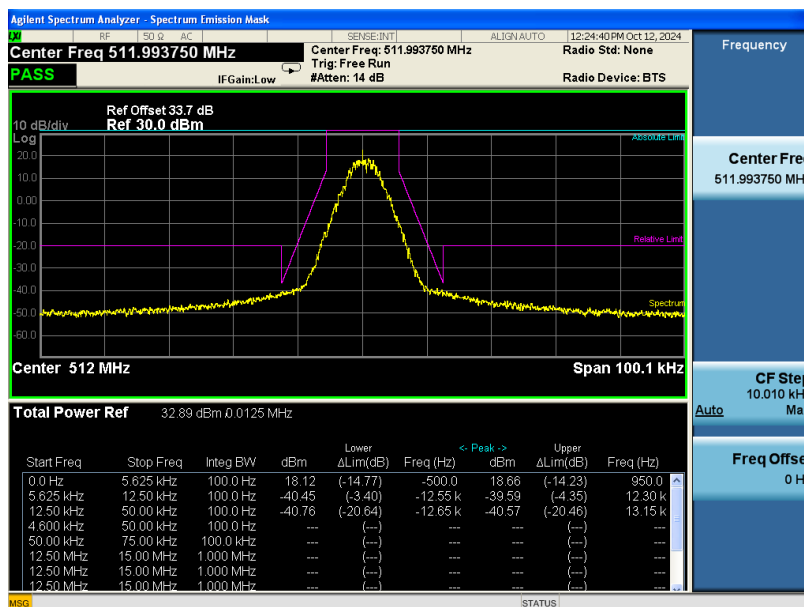


UL_DMR_MCH_3dB above AGC

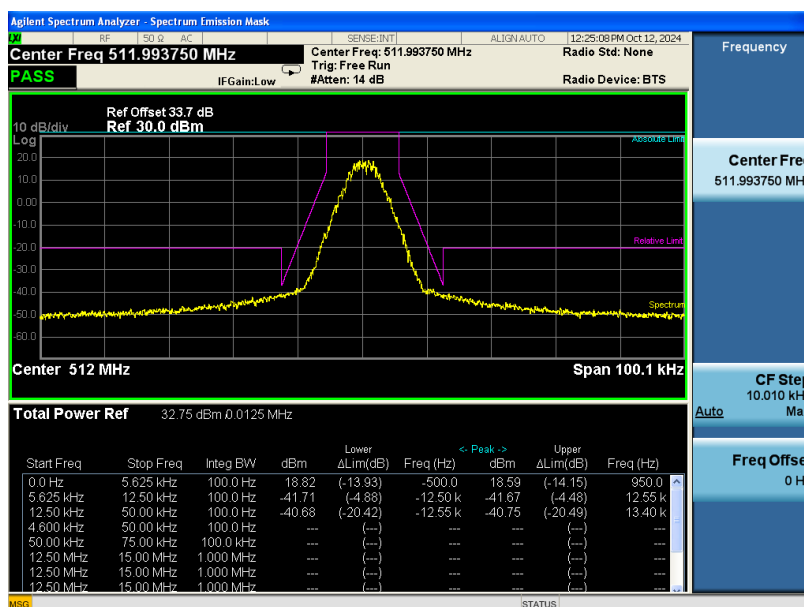


Emission Masks

UL_DMR_HCH_Pre-AGC

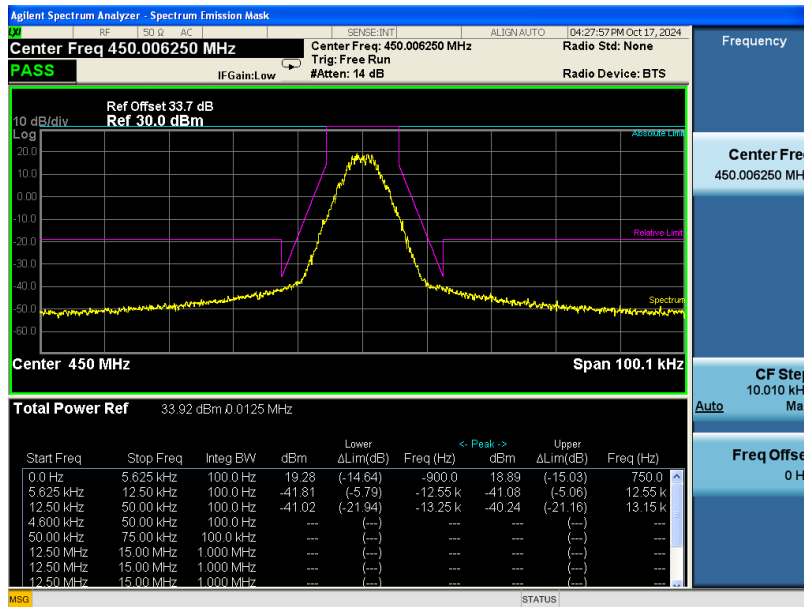


UL_DMR_HCH_3dB above AGC

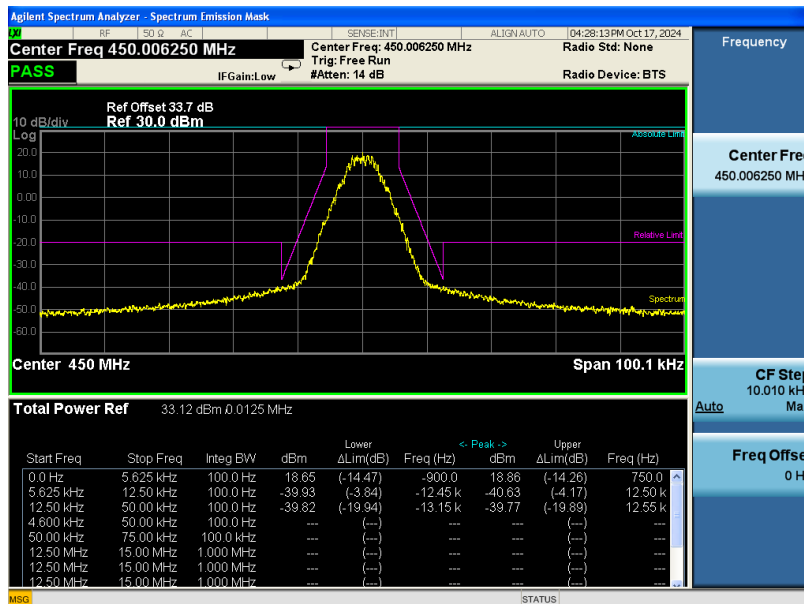


Emission Masks

UL_C4FM_LCH_Pre-AGC

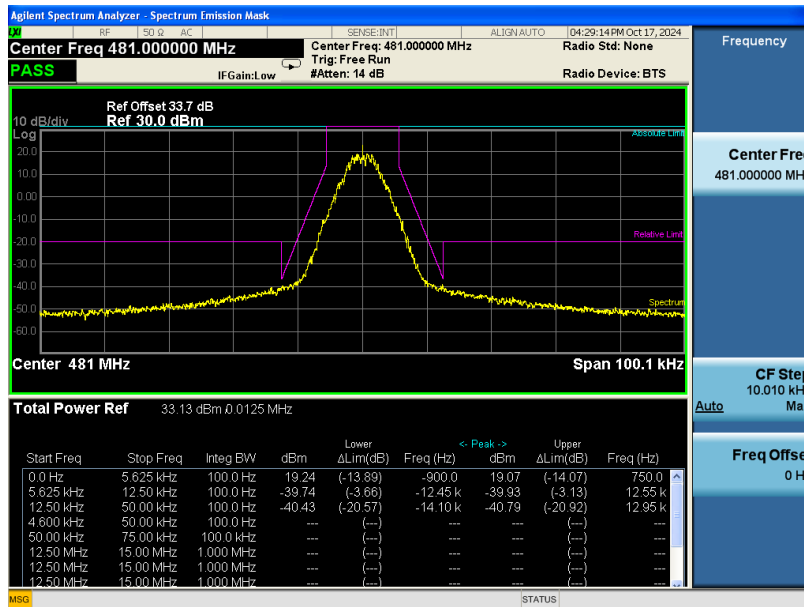


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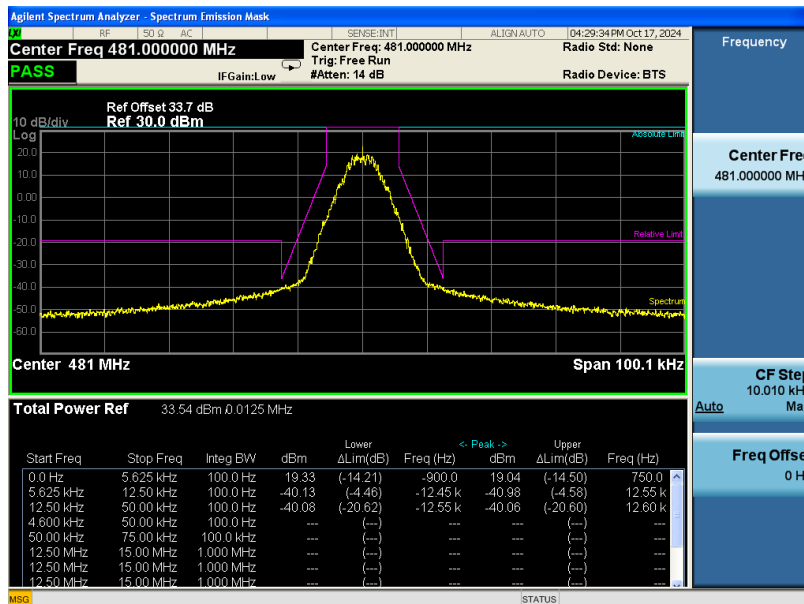


Emission Masks

UL_C4FM_MCH_Pre-AGC

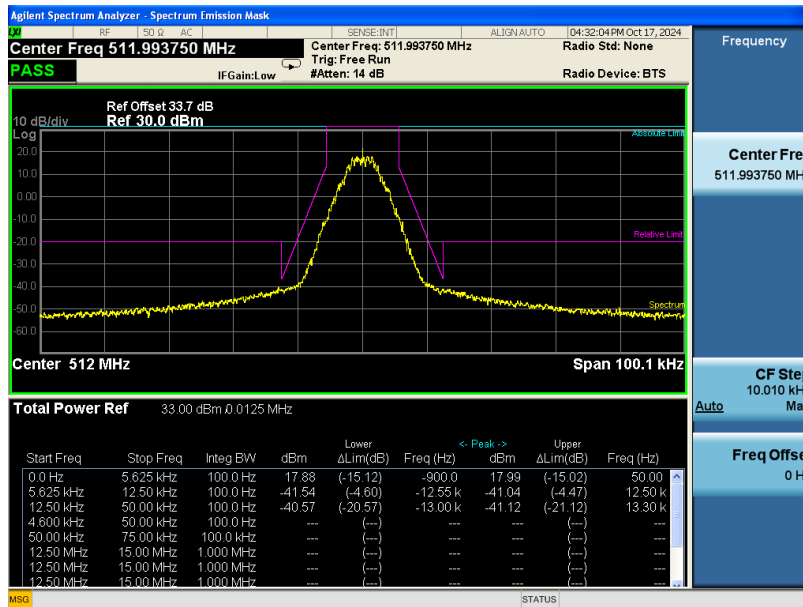


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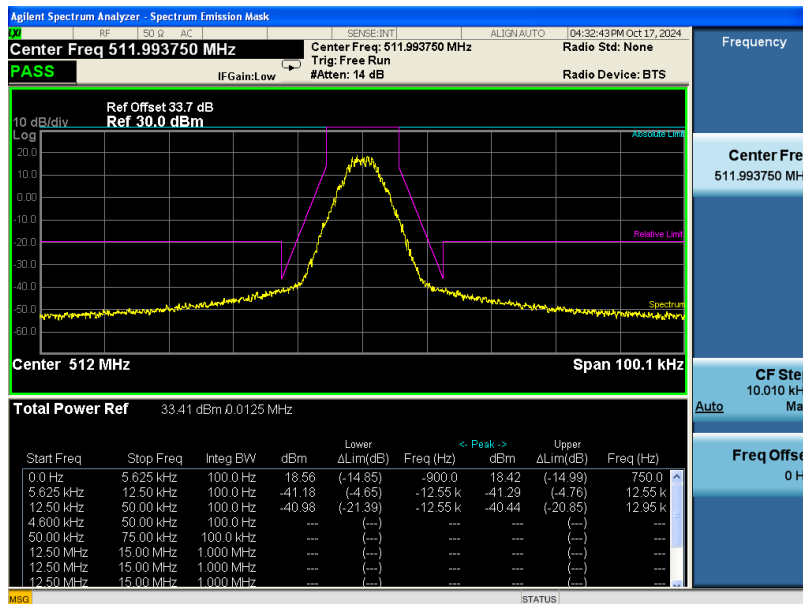


Emission Masks

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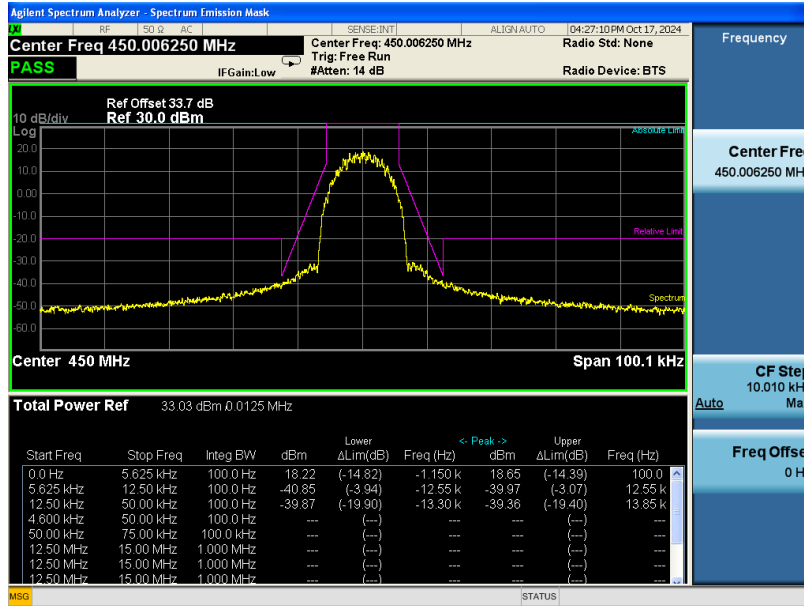


UL_C4FM_HCH_3dB above AGC

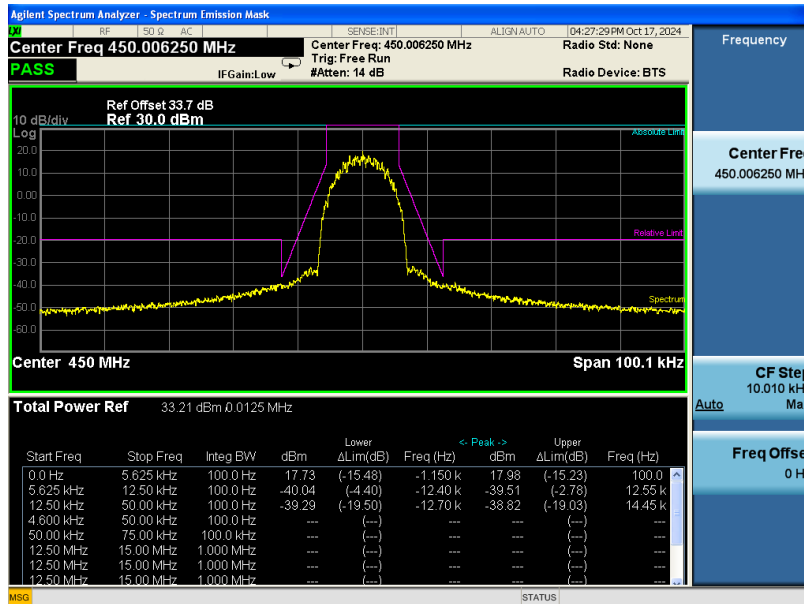


Emission Masks

UL_H-DQPSK_LCH_Pre-AGC

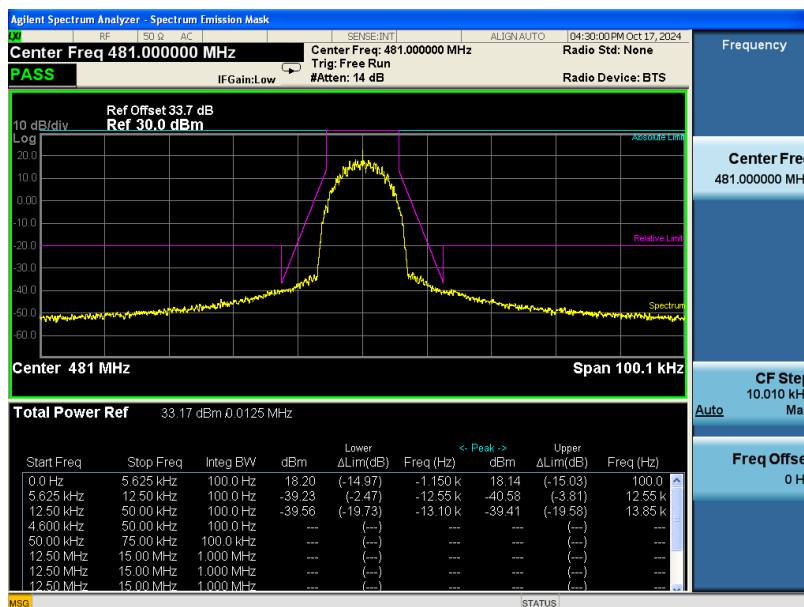


UL_H-DQPSK_LCH_3dB above AGC

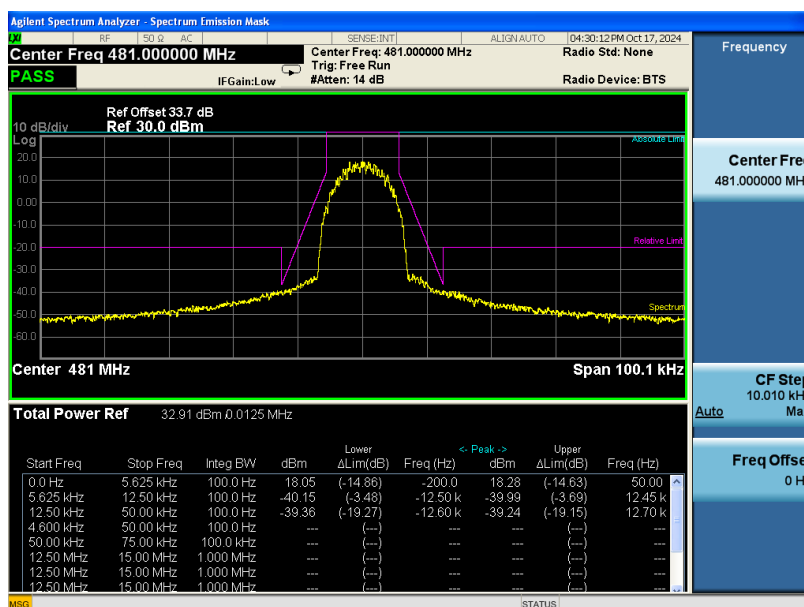


Emission Masks

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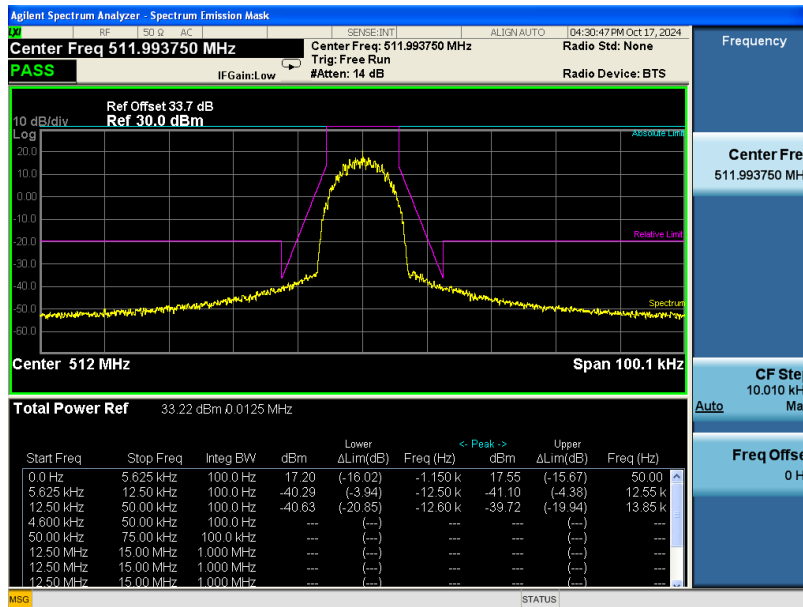


UL_H-DQPSK_MCH_3dB above AGC

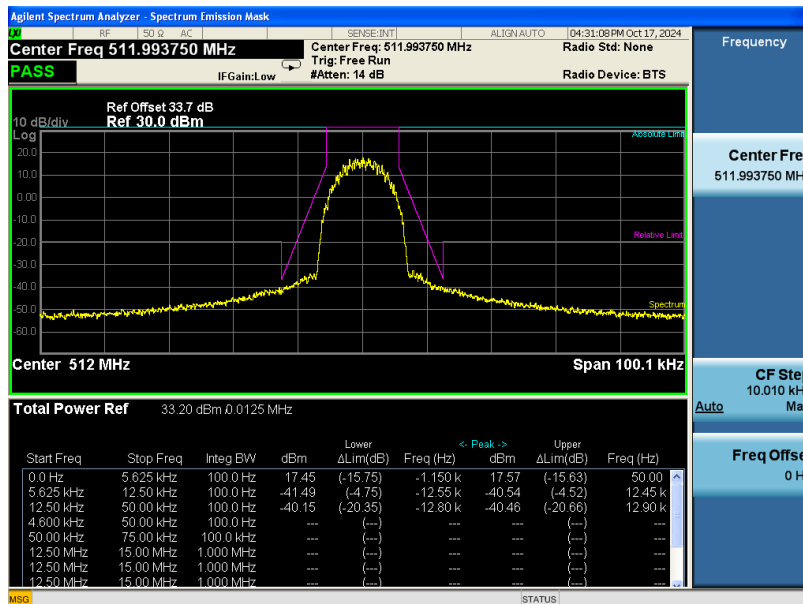


Emission Masks

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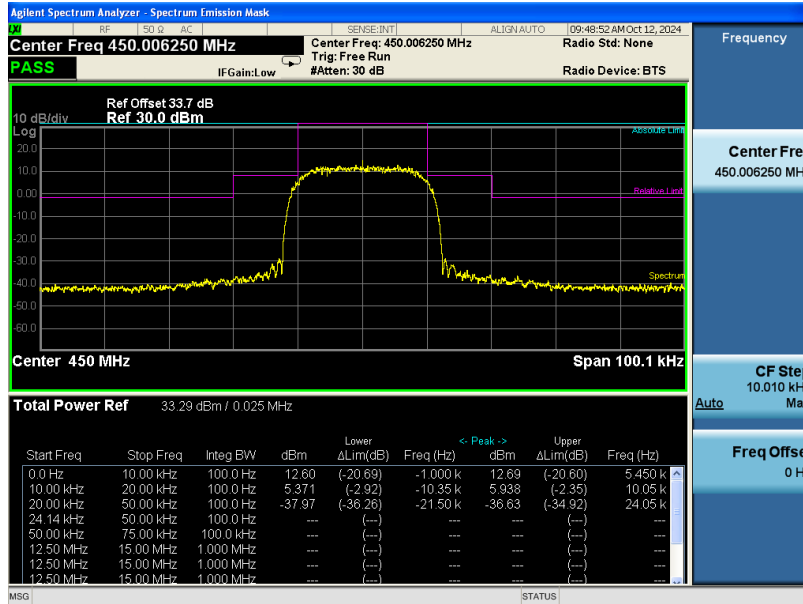


UL_H-DQPSK_HCH_3dB above AGC

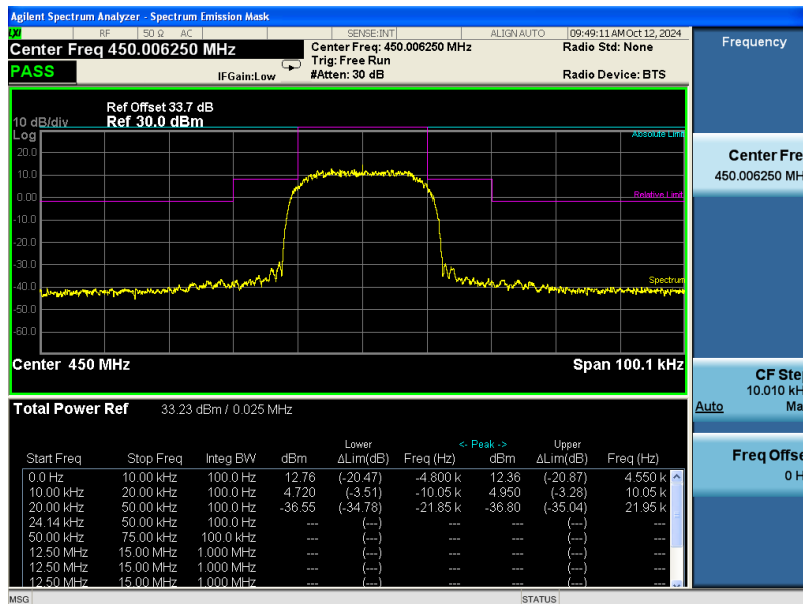


Emission Masks

UL_TETRA_LCH_Pre-AGC

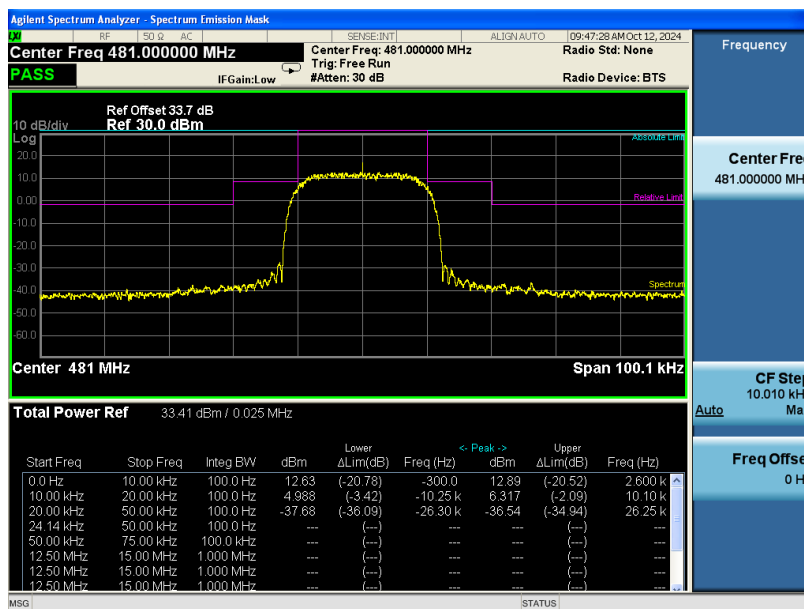


UL_TETRA_LCH_3dB above AGC

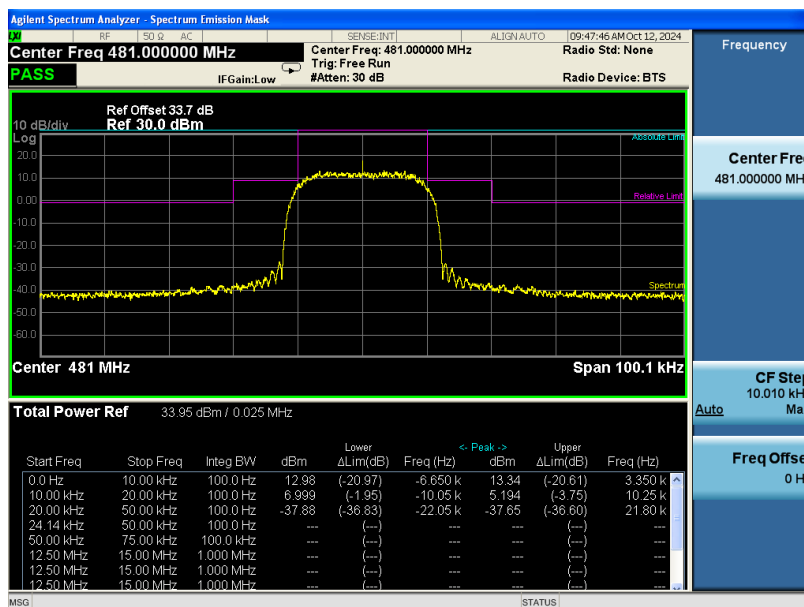


Emission Masks

UL_TETRA_MCH_Pre-AGC



UL_TETRA_MCH_3dB above AGC

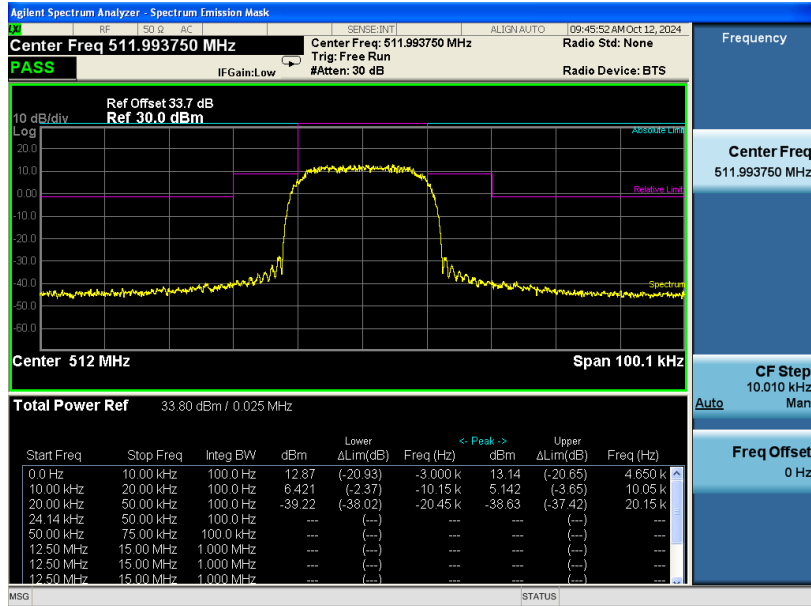


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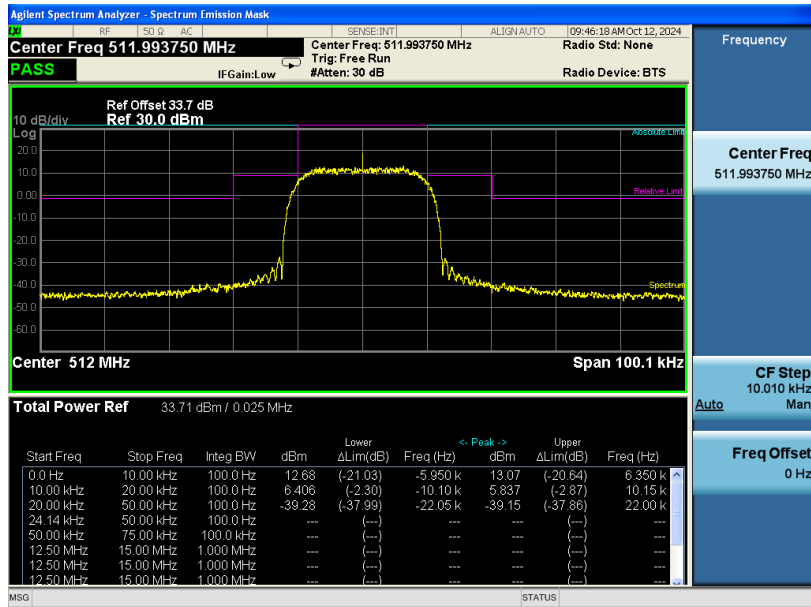
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Emission Masks

UL_TETRA_HCH_Pre-AGC



UL_TETRA_HCH_3dB above AGC



5 Noise Figure

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	7.06	≤9	PASS
UL	6.88		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	453.7	6.25	Pre-AGC	-15.43	-0.20
			3dB above AGC	-15.70	-0.47
		12.5	Pre-AGC	-15.47	-0.24
			3dB above AGC	-14.97	0.26
		25	Pre-AGC	-15.50	-0.27
			3dB above AGC	-15.25	-0.02
UL	453.7	6.25	Pre-AGC	-24.13	-8.90
			3dB above AGC	-24.53	-9.30
		12.5	Pre-AGC	-23.96	-8.73
			3dB above AGC	-22.83	-7.60
		25	Pre-AGC	-23.10	-7.87
			3dB above AGC	-24.44	-9.21

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+ 10lg(10000/300).
- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
- The ERP of worst intermodulation products is 0.26/10kHz+ 0dBi- 2.15dB= -1.89dBm, 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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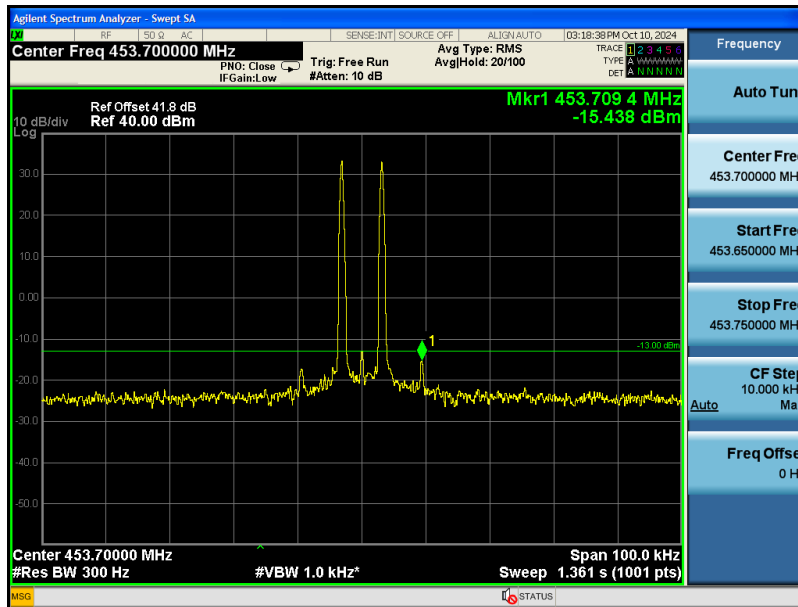
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

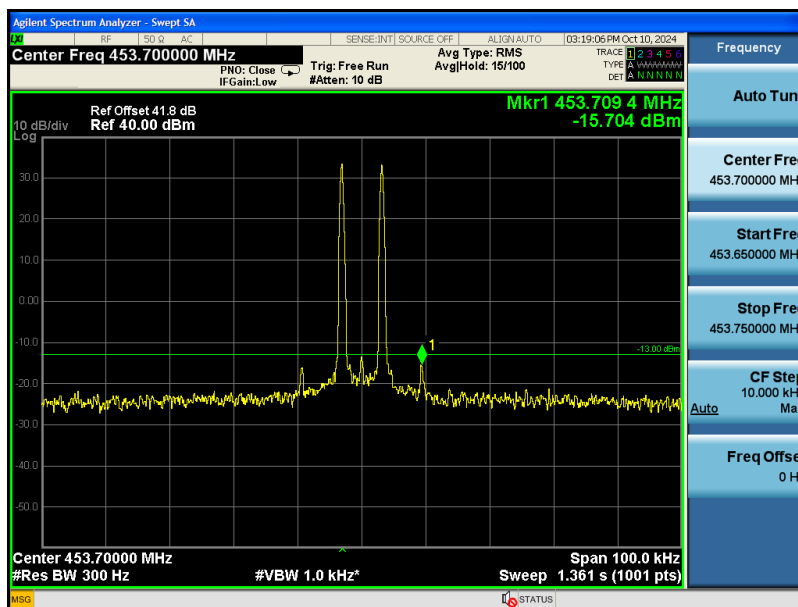
t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Intermodulation

DL_6.25kHz_Pre-AGC

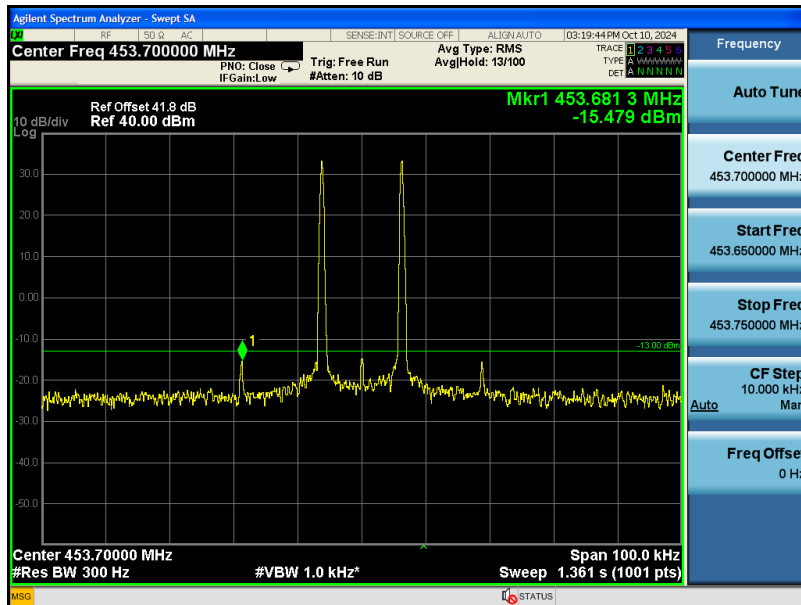


DL_6.25kHz_3dB above AGC

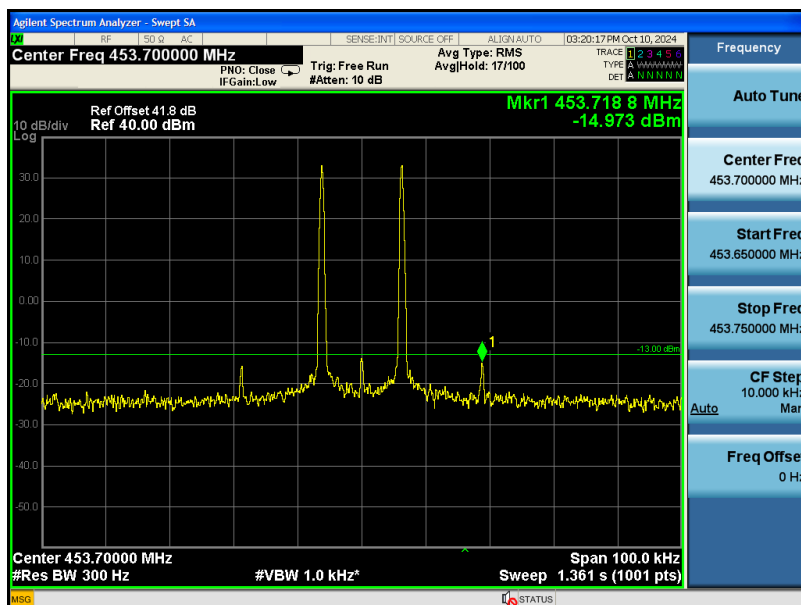


Intermodulation

DL_12.5kHz_Pre-AGC

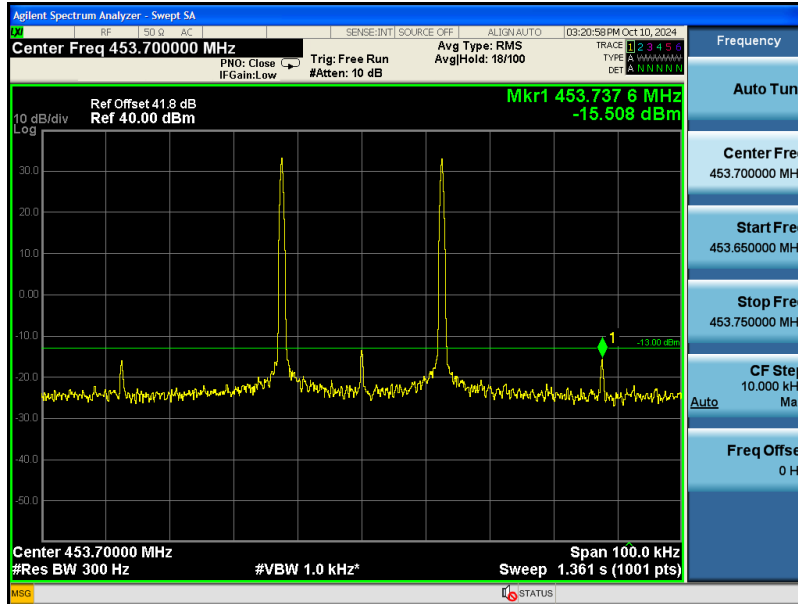


DL_12.5kHz_3dB above AGC

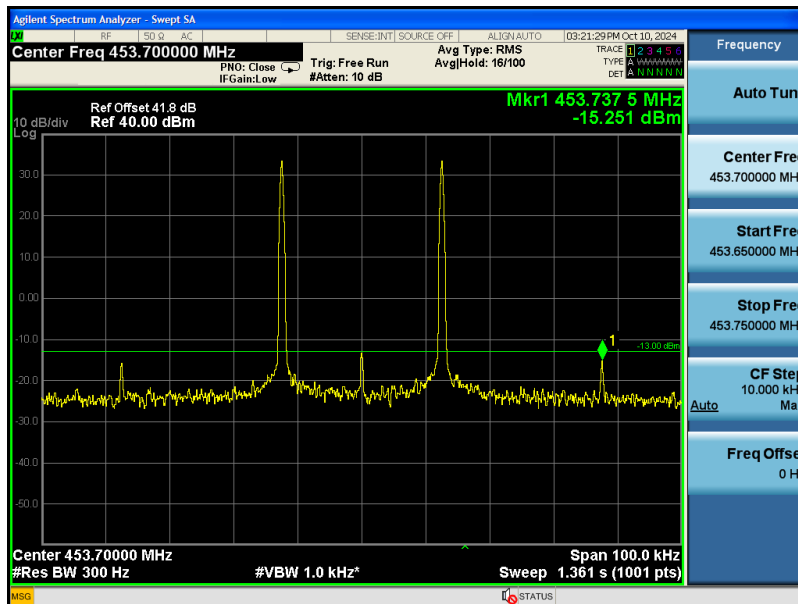


Intermodulation

DL_25kHz_Pre-AGC

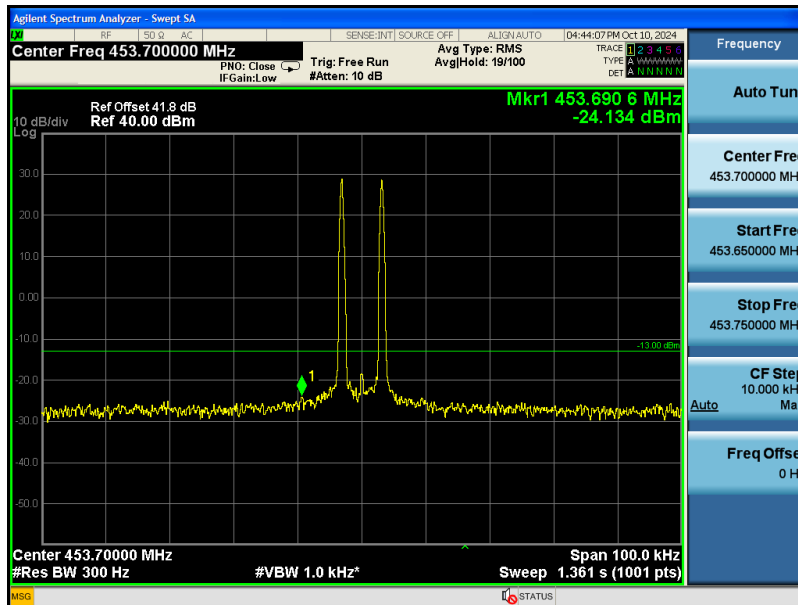


DL_25kHz_3dB above AGC

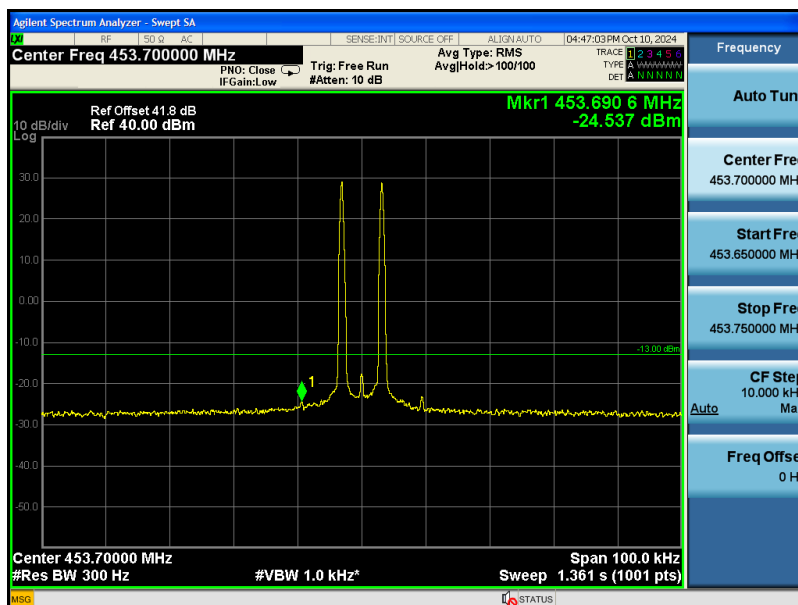


Intermodulation

UL_6.25kHz_Pre-AGC

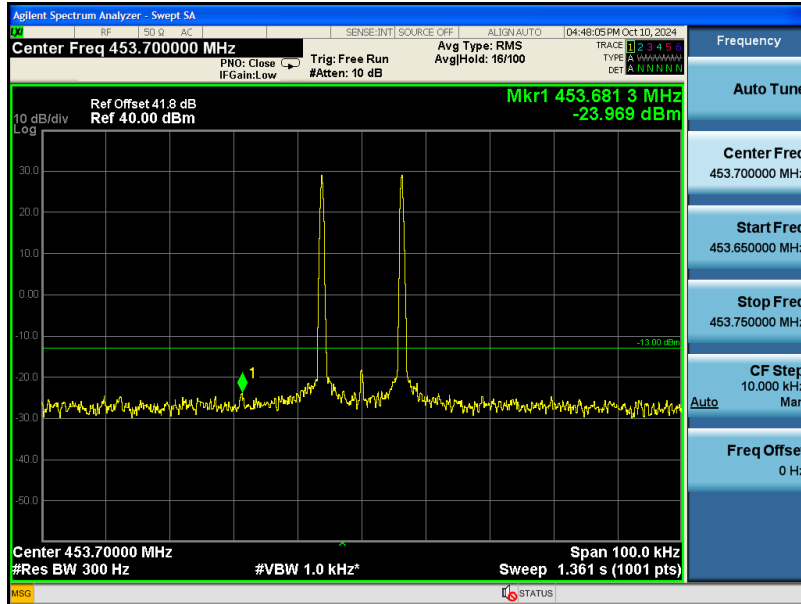


UL_6.25kHz_3dB above AGC

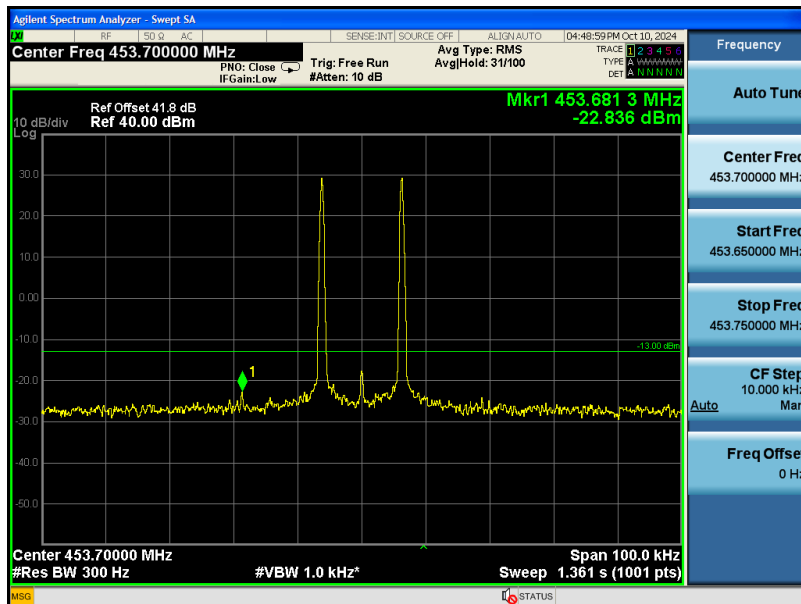


Intermodulation

UL_12.5kHz_Pre-AGC

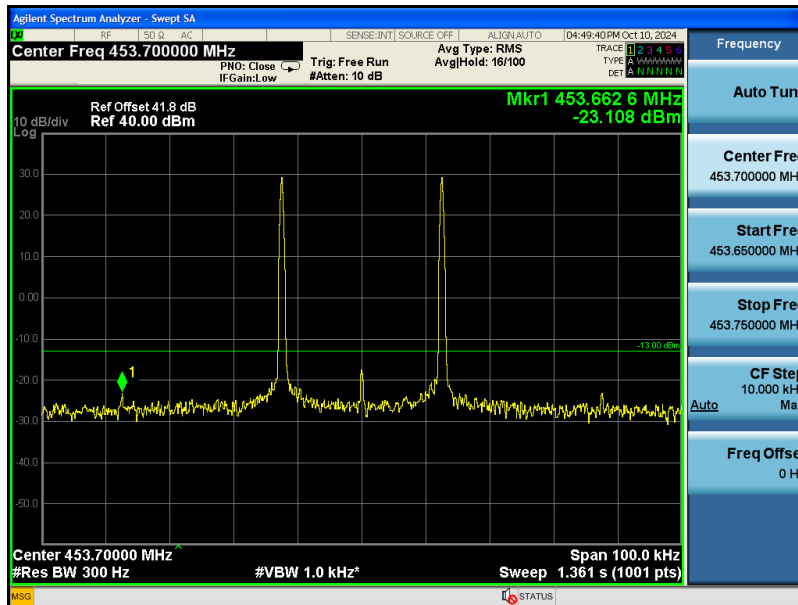


UL_12.5kHz_3dB above AGC

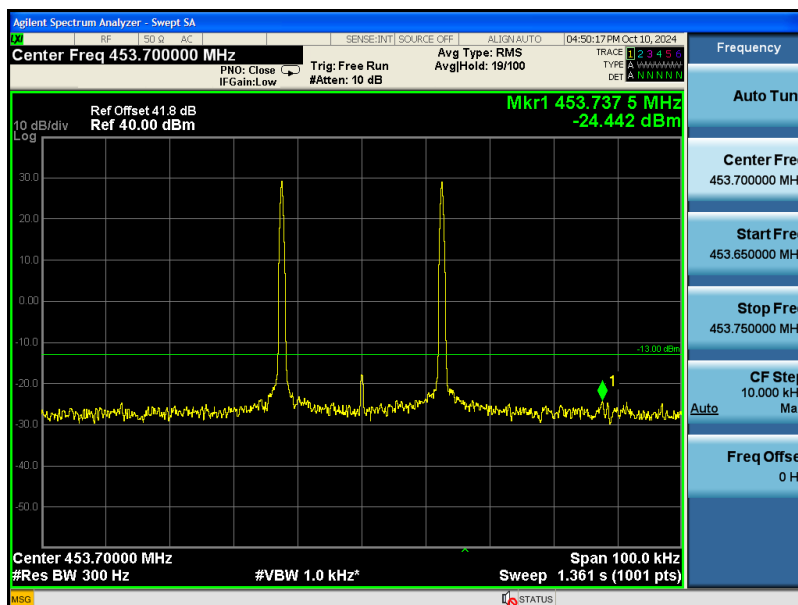


Intermodulation

UL_25kHz_Pre-AGC



UL_25kHz_3dB above AGC



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	-40.33	≤-13	PASS
			30-1000	-17.57	≤-13	PASS
			1000-5120	-24.71	≤-13	PASS
UL	CW	MCH	0.09-30	-42.87	≤-13	PASS
			30-1000	-19.34	≤-13	PASS
			1000-5120	-24.21	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.						

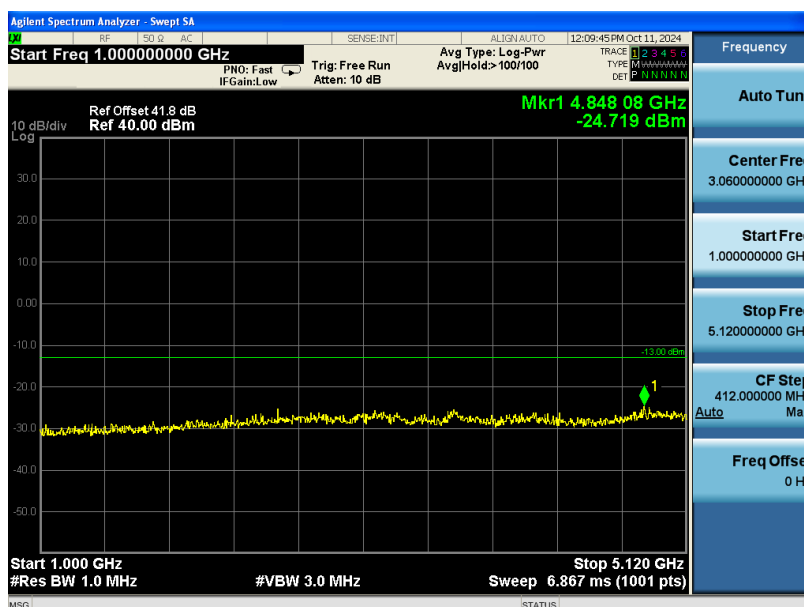
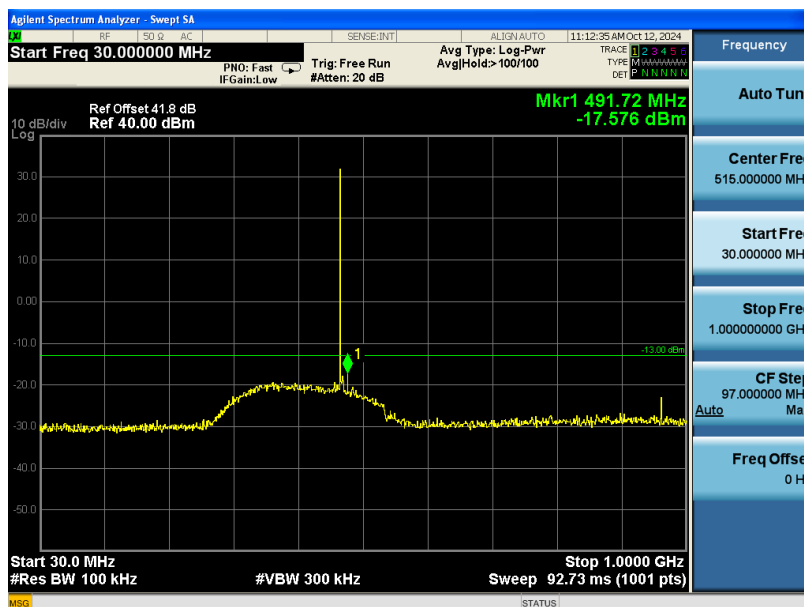


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Conducted Spurious emissions

DL_CW_MCH

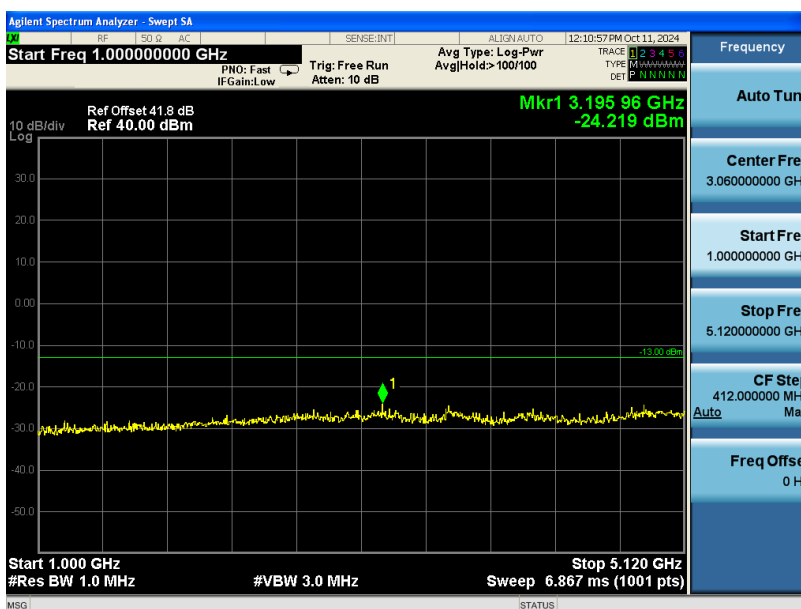
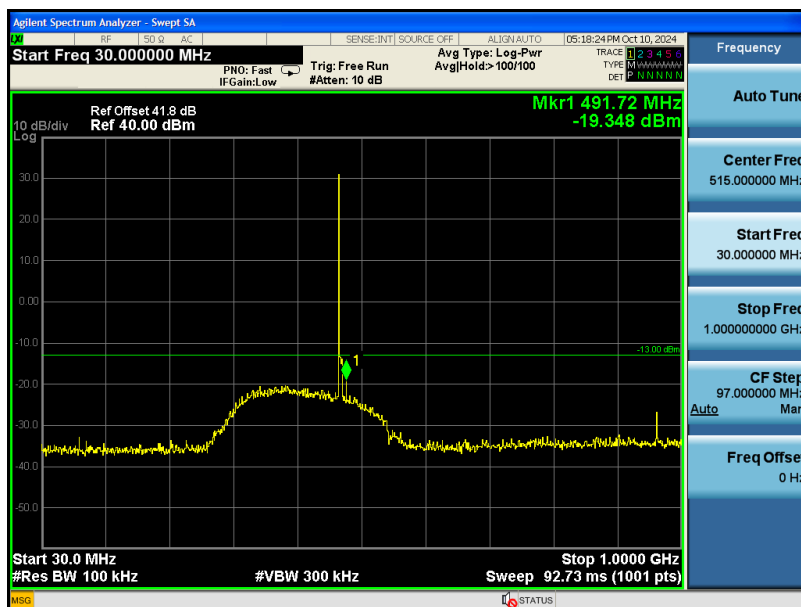


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Conducted Spurious emissions

UL_CW_MCH



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8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	450-512	-21.24
UL	450-512	-20.54
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-30	-41.02
	30-449	-38.34
	513-5120	-36.76
UL	0.009-30	-42.61
	30-449	-24.82
	513-5120	-23.96

Remark:

- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
- The ERP of worst noise within the passband is -20.54/10kHz+ 0dBi- 2.15dB= -22.69dBm, 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.
- The ERP of worst noise outside of the passband is -23.96/10kHz+ 0dBi- 2.15dB= -26.11dBm, 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.
- The noise 9kHz to 30MHz were very low and not displayed test plots in this report.

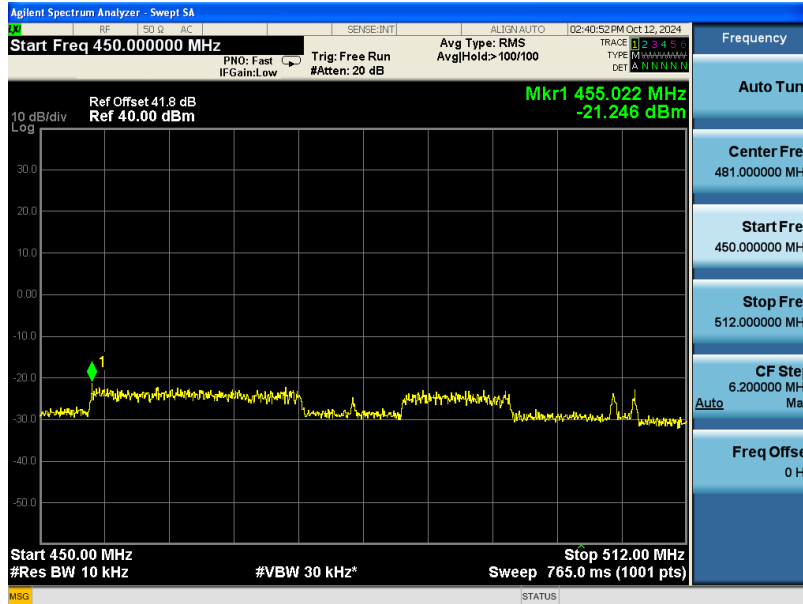


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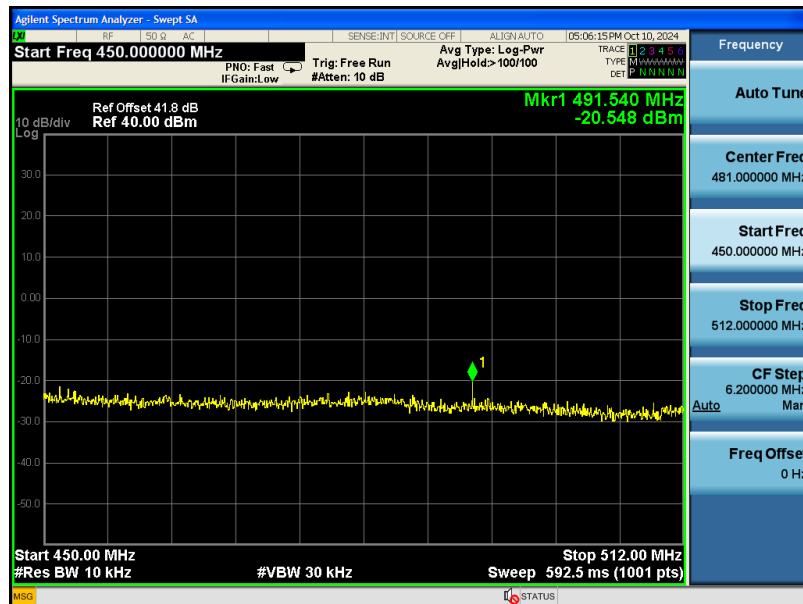
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Noise within the passband

DL

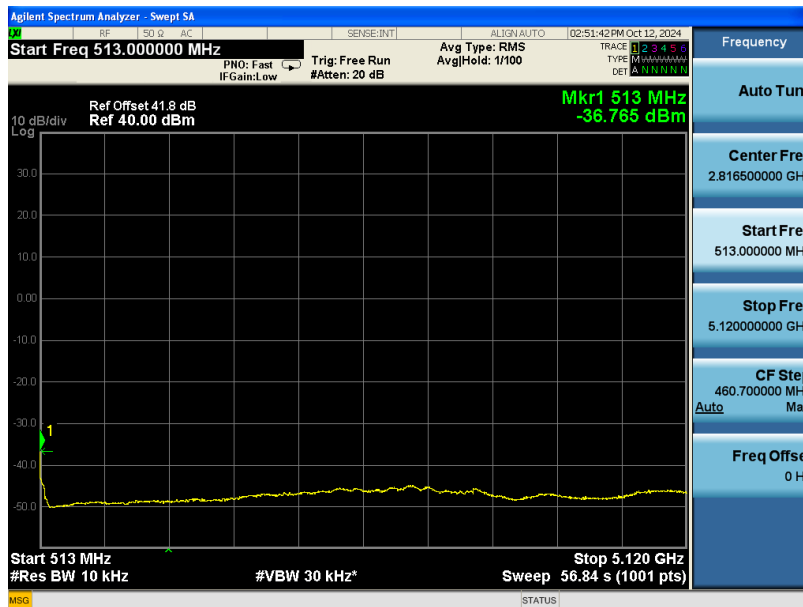
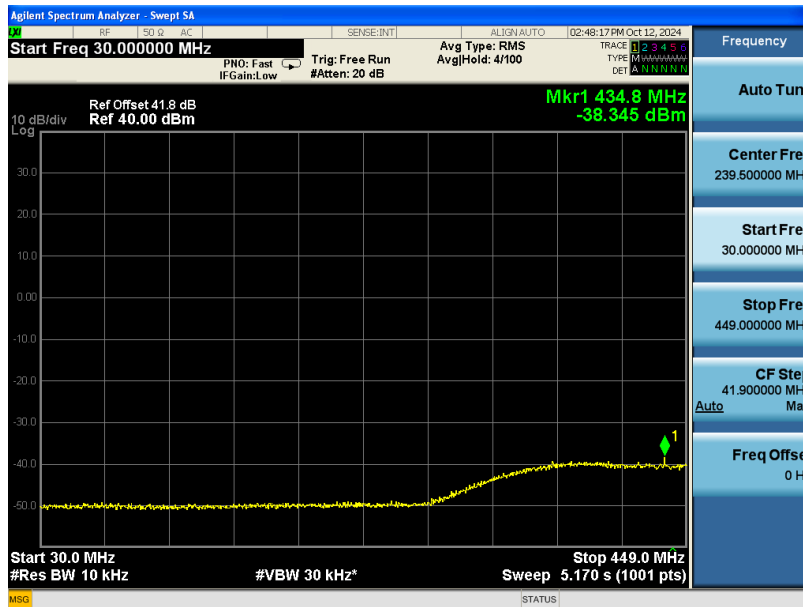


UL



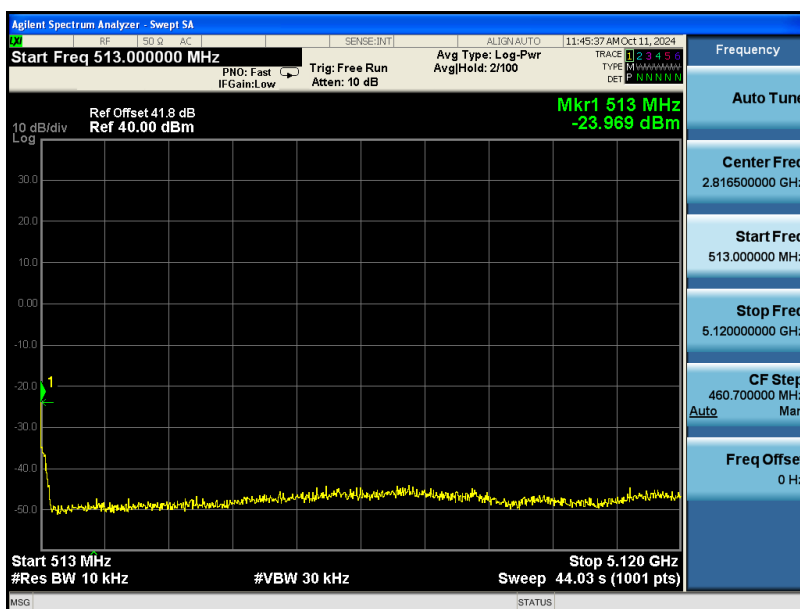
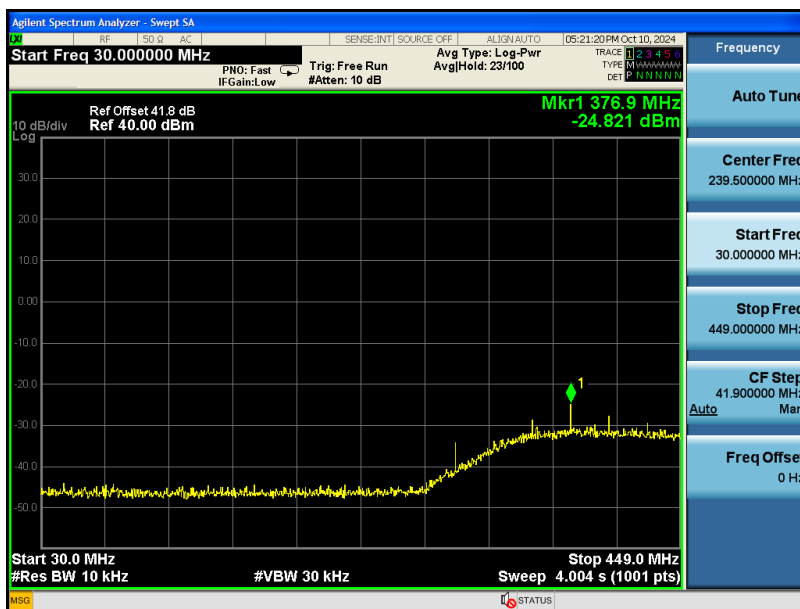
Noise outside the passband

DL



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	2.9	0.0060	PASS
			TN	VH	3.3	0.0069	PASS
	DMR	MCH	TN	VL	2.7	0.0056	PASS
			TN	VH	3.1	0.0064	PASS
	C4FM	MCH	TN	VL	2.3	0.0048	PASS
			TN	VH	3.2	0.0067	PASS
	H-DQPSK	MCH	TN	VL	2.6	0.0054	PASS
			TN	VH	3.5	0.0073	PASS
	TETRA	MCH	TN	VL	3.5	0.0073	PASS
			TN	VH	3.0	0.0062	PASS
UL	FM	MCH	TN	VL	2.5	0.0052	PASS
			TN	VH	1.2	0.0025	PASS
	DMR	MCH	TN	VL	2.2	0.0046	PASS
			TN	VH	3.3	0.0069	PASS
	C4FM	MCH	TN	VL	2.5	0.0052	PASS
			TN	VH	3.1	0.0064	PASS
	H-DQPSK	MCH	TN	VL	3.1	0.0064	PASS
			TN	VH	3.5	0.0073	PASS
	TETRA	MCH	TN	VL	2.1	0.0044	PASS
			TN	VH	1.5	0.0031	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	FM	MCH	VN	+50	2.0	0.0042	PASS
			VN	+40	1.3	0.0027	PASS
			VN	+30	2.8	0.0058	PASS
			VN	+20	1.6	0.0033	PASS
			VN	+10	1.4	0.0029	PASS
			VN	0	3.4	0.0071	PASS
			VN	-10	2.1	0.0044	PASS
			VN	-20	3.7	0.0077	PASS
			VN	-30	4.0	0.0083	PASS
	DMR	MCH	VN	+50	1.7	0.0035	PASS
			VN	+40	1.3	0.0027	PASS
			VN	+30	3.2	0.0067	PASS
			VN	+20	4.0	0.0083	PASS
			VN	+10	1.4	0.0029	PASS
			VN	0	2.6	0.0054	PASS
			VN	-10	1.7	0.0035	PASS
			VN	-20	1.3	0.0027	PASS
			VN	-30	3.6	0.0075	PASS
	C4FM	MCH	VN	+50	2.6	0.0054	PASS
			VN	+40	3.3	0.0069	PASS
			VN	+30	3.7	0.0077	PASS
			VN	+20	3.6	0.0075	PASS
			VN	+10	1.9	0.0040	PASS
			VN	0	3.6	0.0075	PASS
			VN	-10	1.2	0.0025	PASS
			VN	-20	2.0	0.0042	PASS
			VN	-30	1.3	0.0027	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	3.4	0.0071	PASS
			VN	+40	1.8	0.0037	PASS
			VN	+30	2.1	0.0044	PASS
			VN	+20	1.3	0.0027	PASS
			VN	+10	1.7	0.0035	PASS
			VN	0	2.5	0.0052	PASS
			VN	-10	1.5	0.0031	PASS
			VN	-20	1.6	0.0033	PASS
			VN	-30	2.7	0.0056	PASS
	TRTRA	MCH	VN	+50	1.6	0.0033	PASS
			VN	+40	2.0	0.0042	PASS
			VN	+30	3.5	0.0073	PASS
			VN	+20	2.2	0.0046	PASS
			VN	+10	2.3	0.0048	PASS
			VN	0	3.7	0.0077	PASS
			VN	-10	1.5	0.0031	PASS
			VN	-20	1.6	0.0033	PASS
			VN	-30	3.4	0.0071	PASS
UL	FM	MCH	VN	+50	1.7	0.0035	PASS
			VN	+40	2.2	0.0046	PASS
			VN	+30	1.9	0.0040	PASS
			VN	+20	3.9	0.0081	PASS
			VN	+10	4.0	0.0083	PASS
			VN	0	1.5	0.0031	PASS
			VN	-10	2.2	0.0046	PASS
			VN	-20	3.4	0.0071	PASS
			VN	-30	1.8	0.0037	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	3.5	0.0073	PASS
			VN	+40	1.2	0.0025	PASS
			VN	+30	2.7	0.0056	PASS
			VN	+20	2.2	0.0046	PASS
			VN	+10	3.9	0.0081	PASS
			VN	0	3.1	0.0064	PASS
			VN	-10	1.5	0.0031	PASS
			VN	-20	2.0	0.0042	PASS
			VN	-30	2.1	0.0044	PASS
	C4FM	MCH	VN	+50	2.0	0.0042	PASS
			VN	+40	3.0	0.0062	PASS
			VN	+30	3.1	0.0064	PASS
			VN	+20	1.4	0.0029	PASS
			VN	+10	3.7	0.0077	PASS
			VN	0	3.2	0.0067	PASS
			VN	-10	1.4	0.0029	PASS
			VN	-20	1.3	0.0027	PASS
			VN	-30	3.7	0.0077	PASS
	D-HQPSK	MCH	VN	+50	1.2	0.0025	PASS
			VN	+40	2.5	0.0052	PASS
			VN	+30	2.0	0.0042	PASS
			VN	+20	4.1	0.0085	PASS
			VN	+10	1.4	0.0029	PASS
			VN	0	2.1	0.0044	PASS
			VN	-10	3.9	0.0081	PASS
			VN	-20	3.5	0.0073	PASS
			VN	-30	1.2	0.0025	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	3.3	0.0069	PASS
			VN	+40	1.3	0.0027	PASS
			VN	+30	2.8	0.0058	PASS
			VN	+20	2.4	0.0050	PASS
			VN	+10	3.0	0.0062	PASS
			VN	0	3.3	0.0069	PASS
			VN	-10	1.3	0.0027	PASS
			VN	-20	2.8	0.0058	PASS
			VN	-30	2.4	0.0050	PASS



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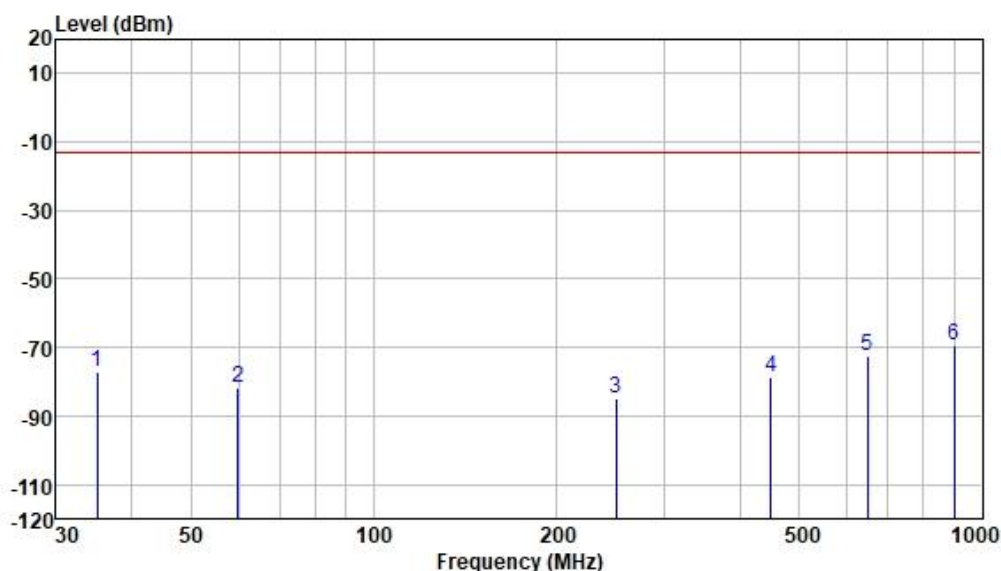
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10 Radiated Spurious emissions

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.00	-80.01	2.87	-77.14	-13.00	-64.14	HORIZONTAL
2	59.65	-79.08	-2.49	-81.57	-13.00	-68.57	HORIZONTAL
3	250.30	-79.54	-5.40	-84.94	-13.00	-71.94	HORIZONTAL
4	449.56	-78.73	0.25	-78.48	-13.00	-65.48	HORIZONTAL
5	647.39	-76.41	3.77	-72.64	-13.00	-59.64	HORIZONTAL
6	900.15	-78.70	9.45	-69.25	-13.00	-56.25	HORIZONTAL

Remark:

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

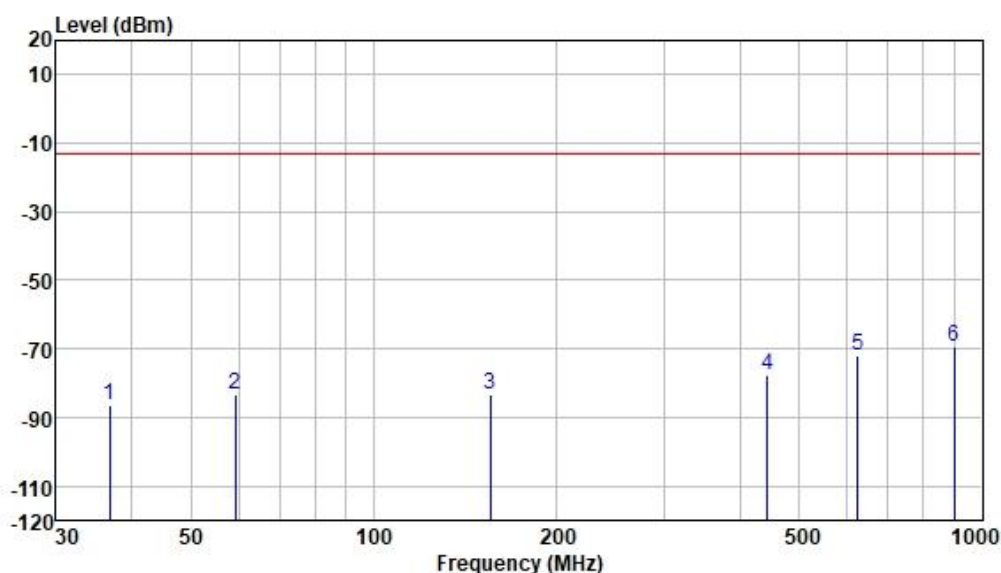


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



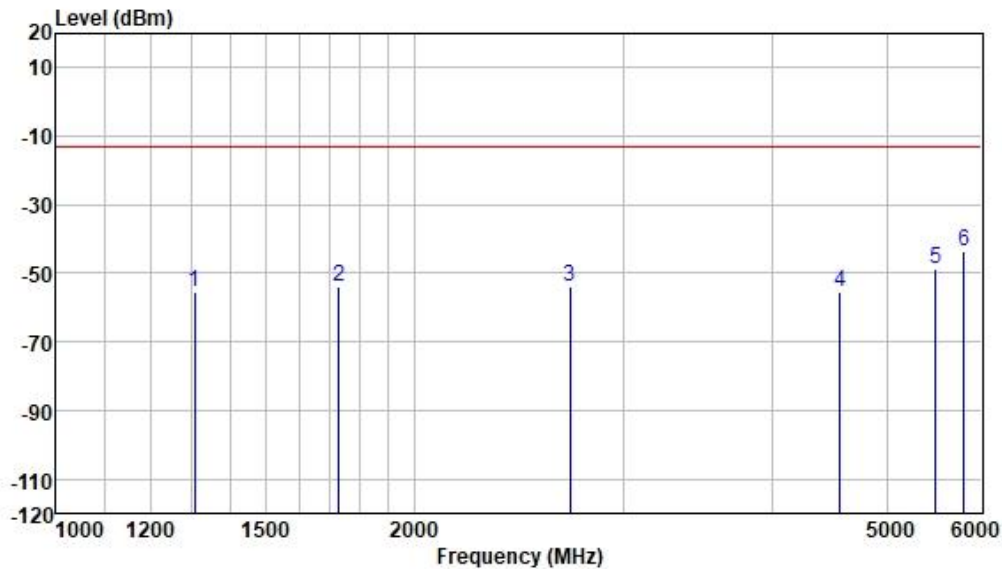
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	36.77	-78.40	-7.82	-86.22	-13.00	-73.22	VERTICAL
2	59.23	-80.86	-2.32	-83.18	-13.00	-70.18	VERTICAL
3	155.36	-79.40	-3.94	-83.34	-13.00	-70.34	VERTICAL
4	443.29	-78.94	1.41	-77.53	-13.00	-64.53	VERTICAL
5	625.08	-76.41	4.45	-71.96	-13.00	-58.96	VERTICAL
6	900.15	-80.17	10.65	-69.52	-13.00	-56.52	VERTICAL

Remark:

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

Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1308.35	-59.23	3.95	-55.28	-13.00	-42.28	HORIZONTAL
2	1727.17	-60.06	6.24	-53.82	-13.00	-40.82	HORIZONTAL
3	2703.17	-58.39	4.44	-53.95	-13.00	-40.95	HORIZONTAL
4	4561.36	-62.16	6.88	-55.28	-13.00	-42.28	HORIZONTAL
5	5485.85	-63.05	14.36	-48.69	-13.00	-35.69	HORIZONTAL
6	5788.80	-58.76	15.33	-43.43	-13.00	-30.43	HORIZONTAL

Remark:

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

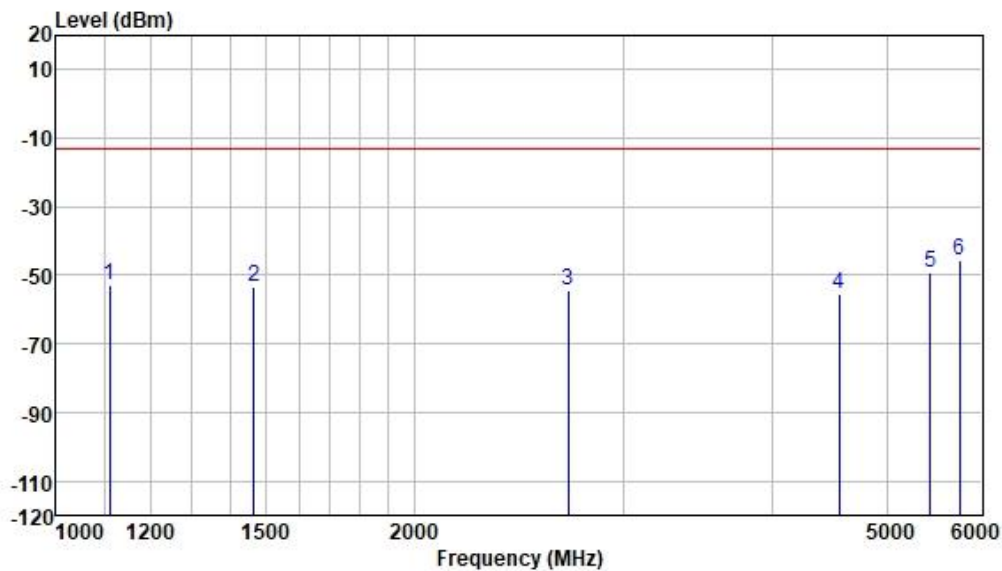


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Verical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1109.51	-57.42	4.39	-53.03	-13.00	-40.03	VERTICAL
2	1467.32	-59.74	6.26	-53.48	-13.00	-40.48	VERTICAL
3	2693.50	-59.35	5.07	-54.28	-13.00	-41.28	VERTICAL
4	4553.19	-62.11	6.44	-55.67	-13.00	-42.67	VERTICAL
5	5427.19	-62.75	13.66	-49.09	-13.00	-36.09	VERTICAL
6	5747.46	-60.01	14.57	-45.44	-13.00	-32.44	VERTICAL

Remark:

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

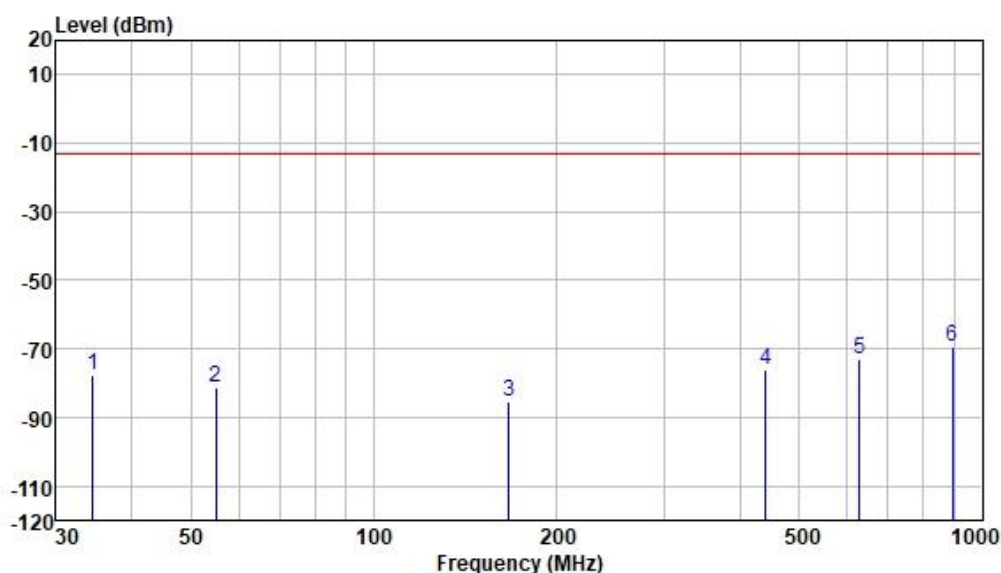


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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	34.52	-80.40	2.91	-77.49	-13.00	-64.49	HORIZONTAL
2	55.03	-79.39	-1.94	-81.33	-13.00	-68.33	HORIZONTAL
3	166.65	-79.07	-6.26	-85.33	-13.00	-72.33	HORIZONTAL
4	440.20	-76.53	0.22	-76.31	-13.00	-63.31	HORIZONTAL
5	629.48	-76.49	3.52	-72.97	-13.00	-59.97	HORIZONTAL
6	893.86	-78.71	9.15	-69.56	-13.00	-56.56	HORIZONTAL

Remark:

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



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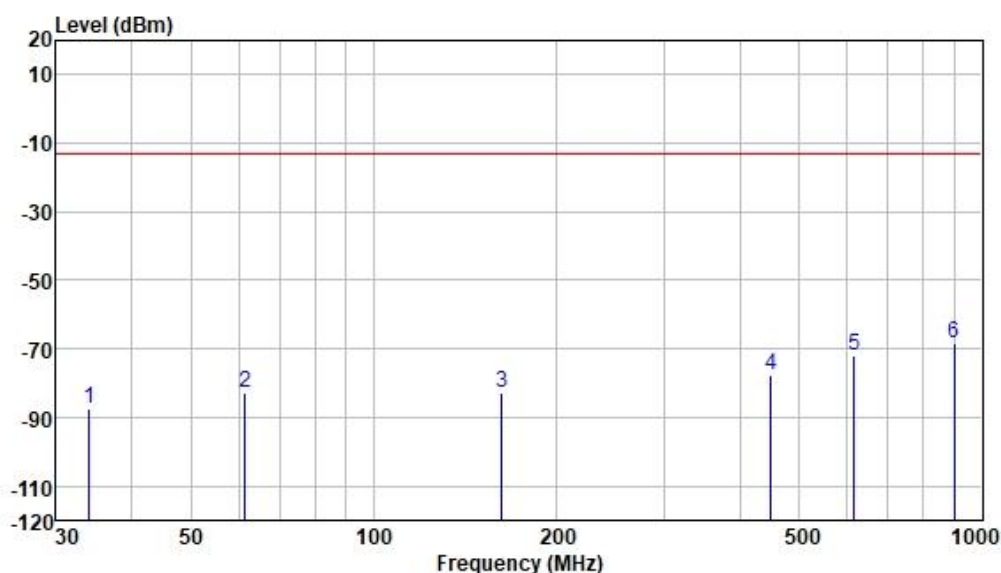
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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	34.04	-79.90	-7.59	-87.49	-13.00	-74.49	VERTICAL
2	61.35	-79.99	-2.67	-82.66	-13.00	-69.66	VERTICAL
3	162.04	-78.96	-3.94	-82.90	-13.00	-69.90	VERTICAL
4	449.56	-79.09	1.48	-77.61	-13.00	-64.61	VERTICAL
5	616.37	-76.46	4.34	-72.12	-13.00	-59.12	VERTICAL
6	900.15	-79.07	10.65	-68.42	-13.00	-55.42	VERTICAL

Remark:

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

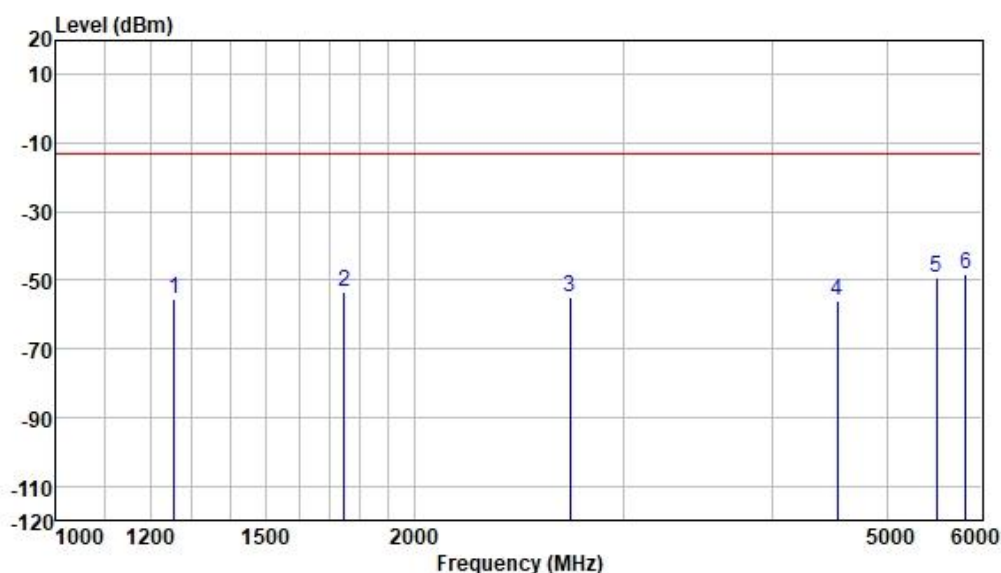


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Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Horizontal



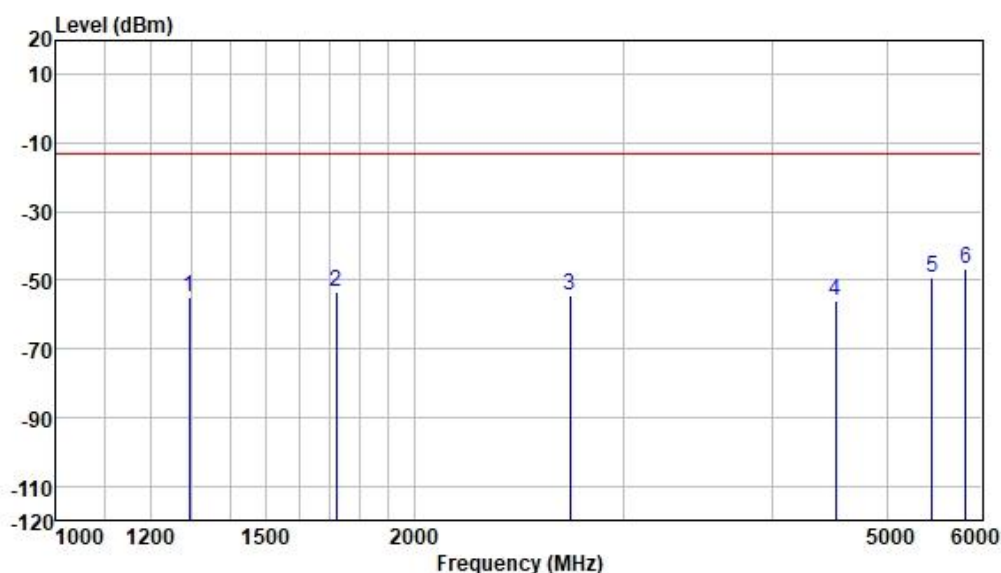
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1257.78	-59.22	3.99	-55.23	-13.00	-42.23	HORIZONTAL
2	1745.84	-59.23	6.08	-53.15	-13.00	-40.15	HORIZONTAL
3	2703.17	-59.35	4.44	-54.91	-13.00	-41.91	HORIZONTAL
4	4536.91	-62.37	6.53	-55.84	-13.00	-42.84	HORIZONTAL
5	5495.69	-63.60	14.53	-49.07	-13.00	-36.07	HORIZONTAL
6	5809.58	-63.63	15.38	-48.25	-13.00	-35.25	HORIZONTAL

Remark:

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

Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Verical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1294.36	-59.34	4.32	-55.02	-13.00	-42.02	VERTICAL
2	1721.00	-58.88	5.67	-53.21	-13.00	-40.21	VERTICAL
3	2703.17	-59.39	5.02	-54.37	-13.00	-41.37	VERTICAL
4	4520.68	-62.30	6.17	-56.13	-13.00	-43.13	VERTICAL
5	5446.67	-63.04	13.90	-49.14	-13.00	-36.14	VERTICAL
6	5809.58	-62.63	15.99	-46.64	-13.00	-33.64	VERTICAL

Remark:

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

--End of Appendix--



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