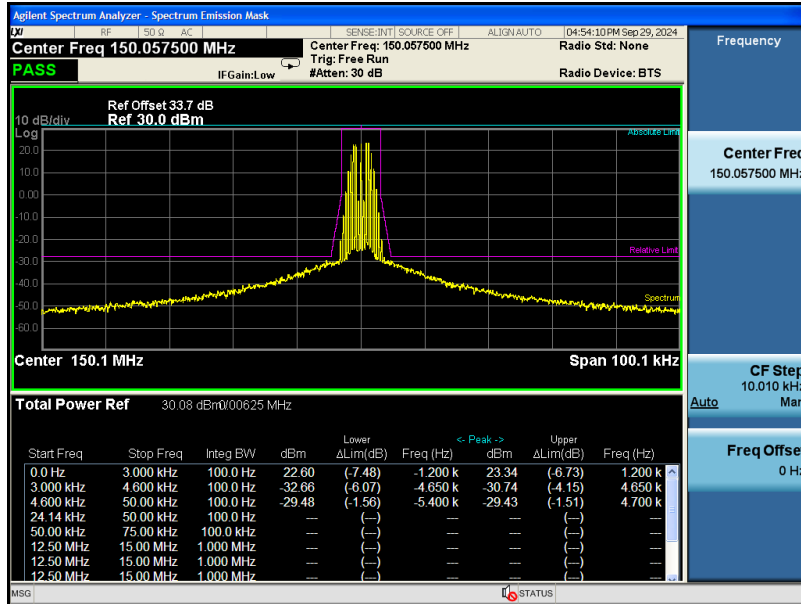
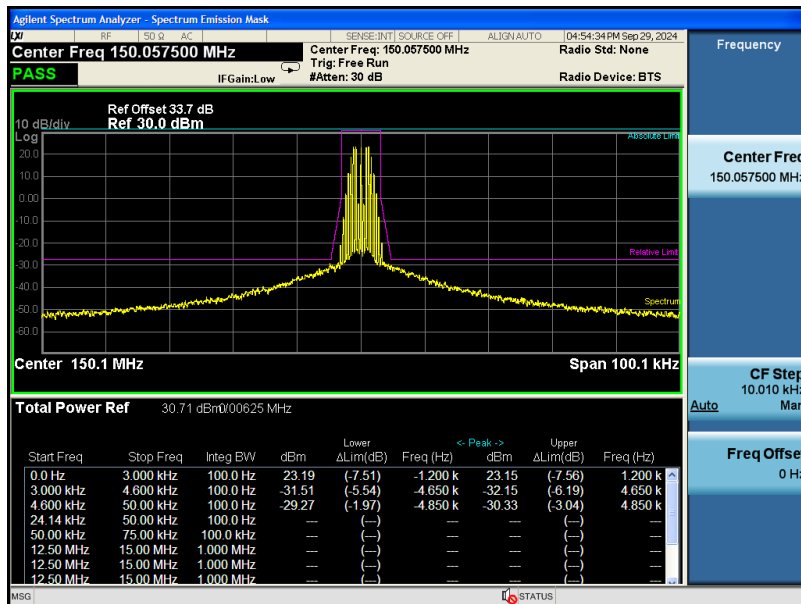


Emission Masks

DL_FM_LCH_Pre-AGC

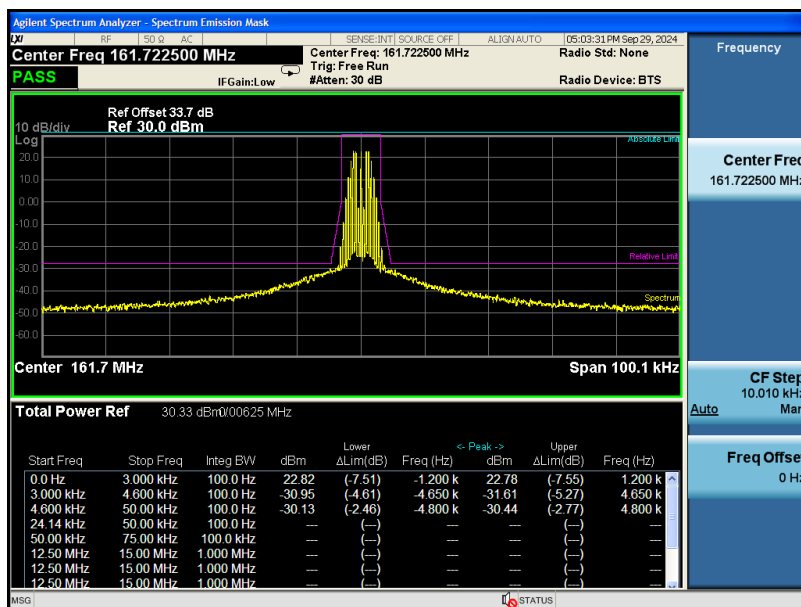


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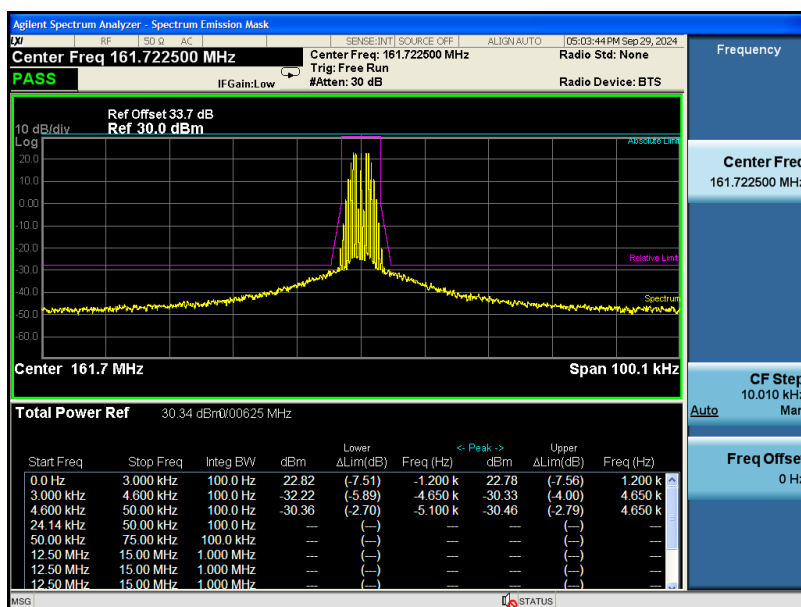


Emission Masks

DL_FM_MCH_Pre-AGC

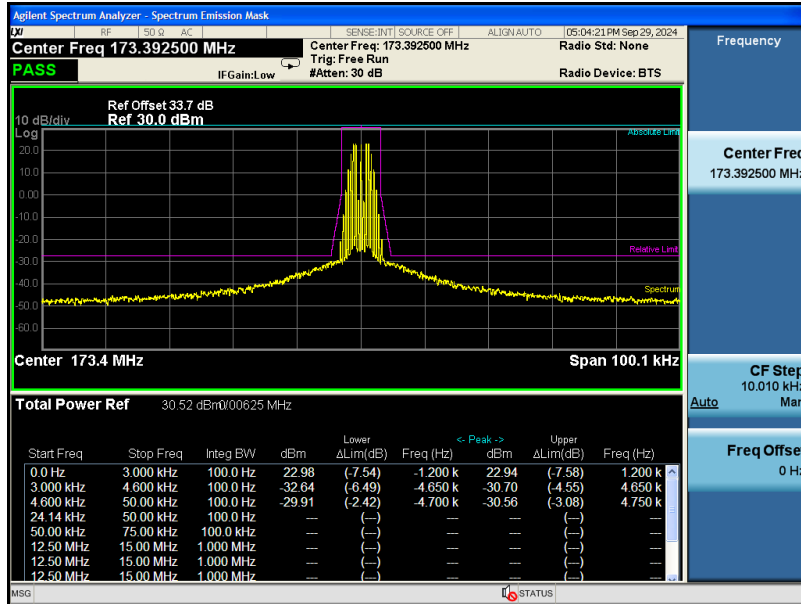


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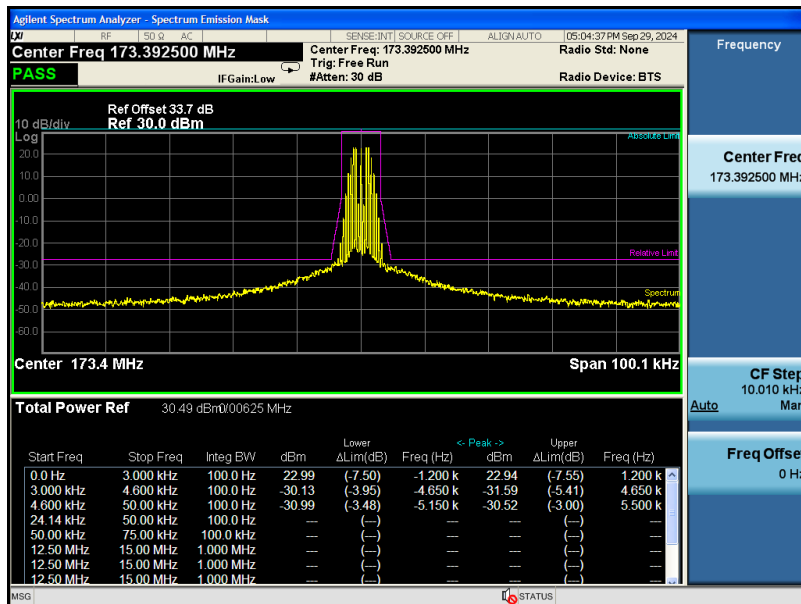


Emission Masks

DL_FM_HCH_Pre-AGC

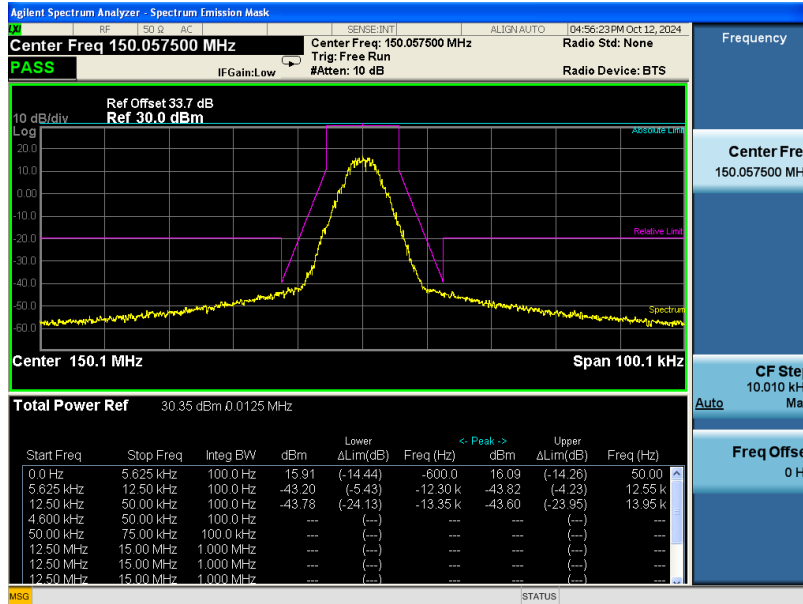


DL_FM_HCH_3dB above AGC

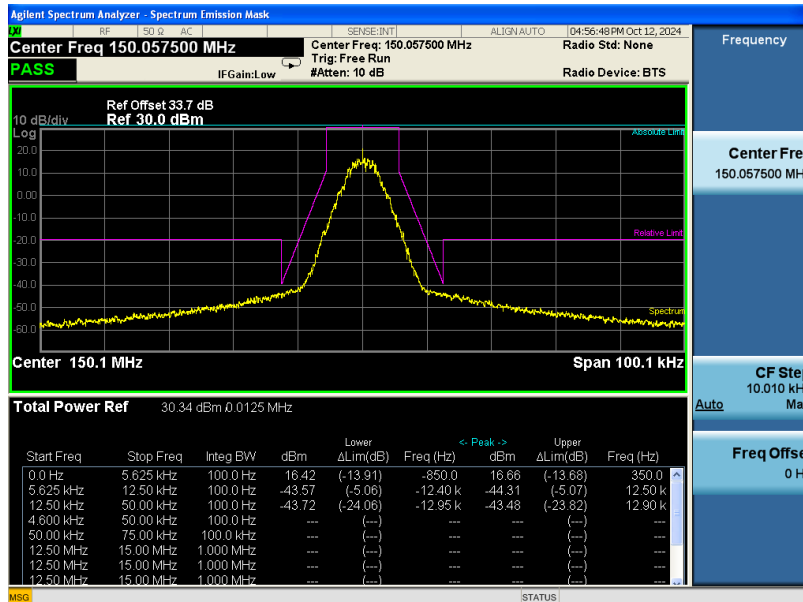


Emission Masks

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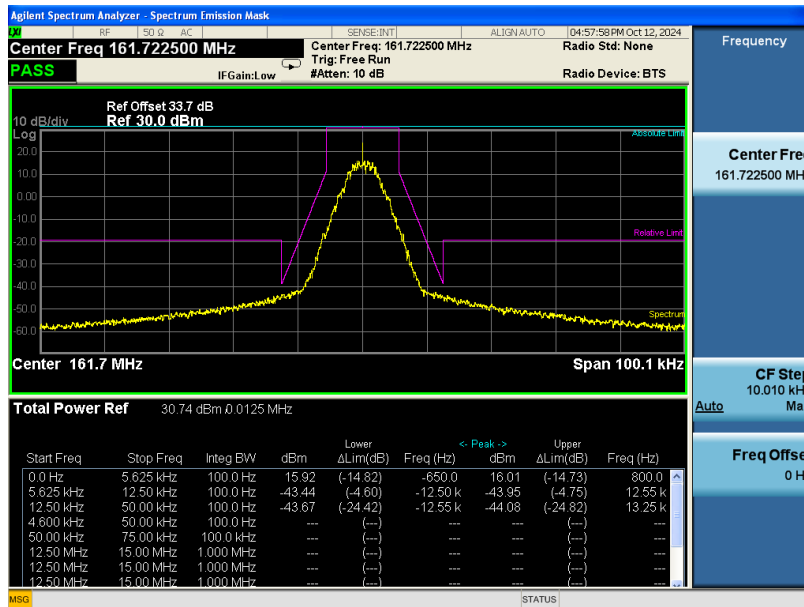


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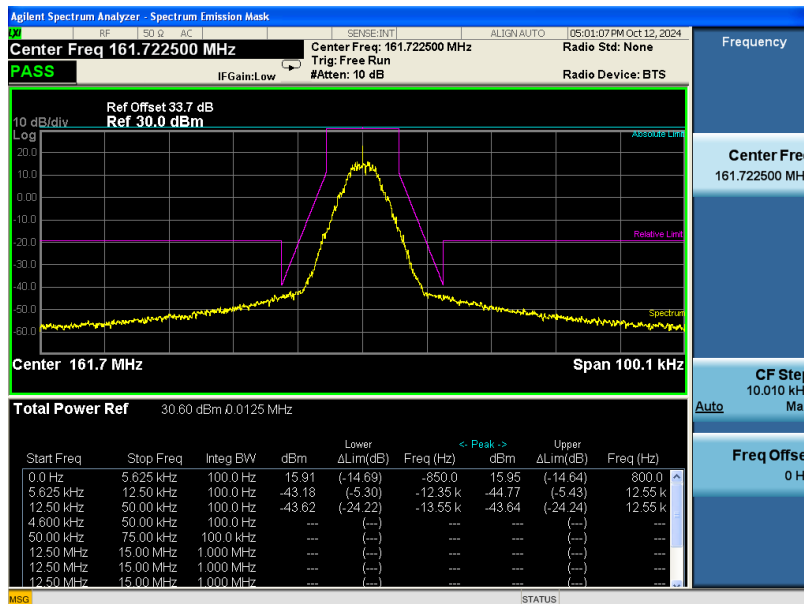


Emission Masks

DL_DMR_MCH_Pre-AGC

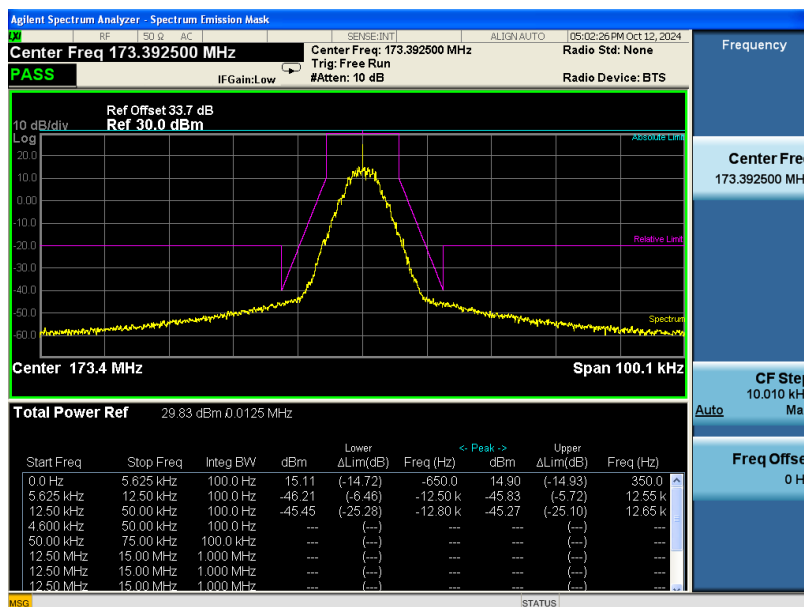


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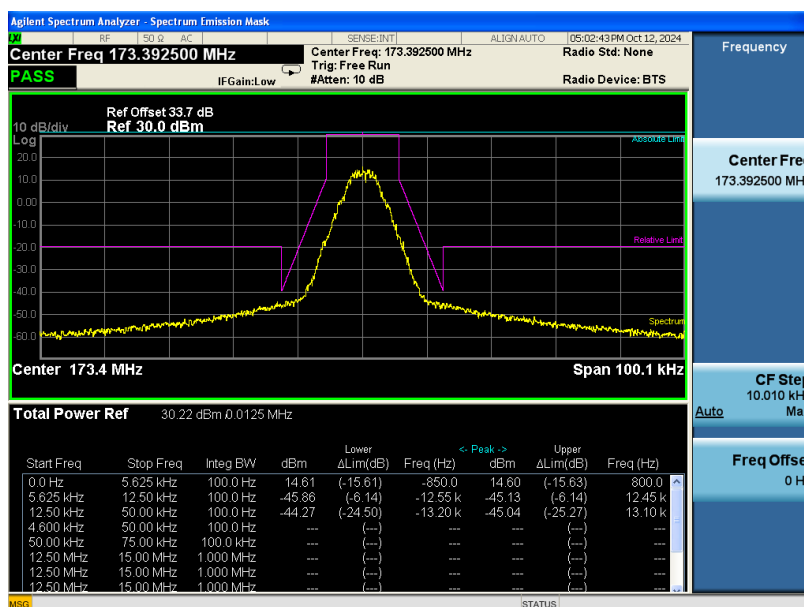


Emission Masks

DL_DMR_HCH_Pre-AGC

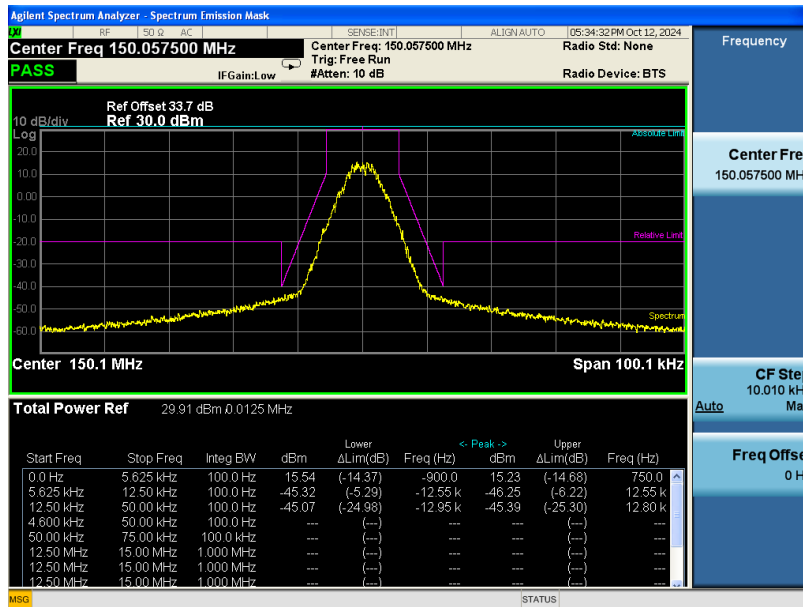


DL_DMR_HCH_3dB above AGC

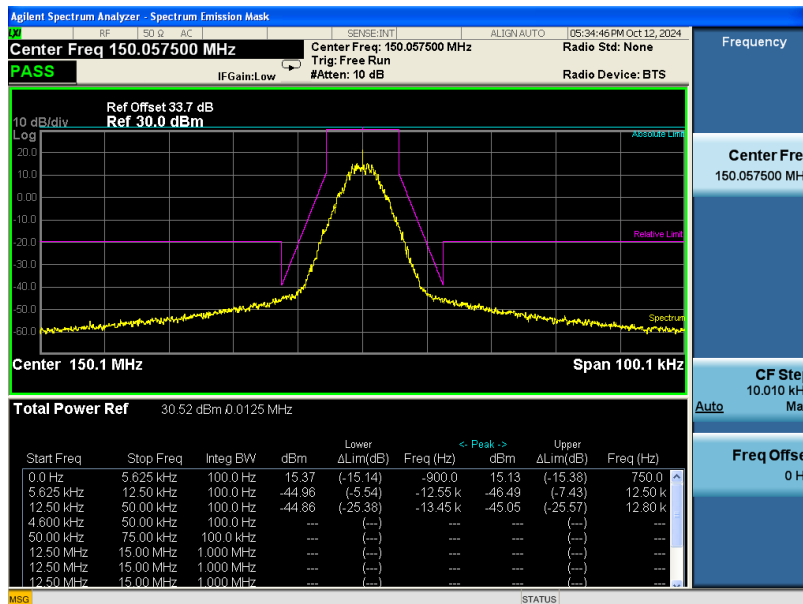


Emission Masks

DL_C4FM_LCH_Pre-AGC



DL_C4FM_LCH_3dB above AGC

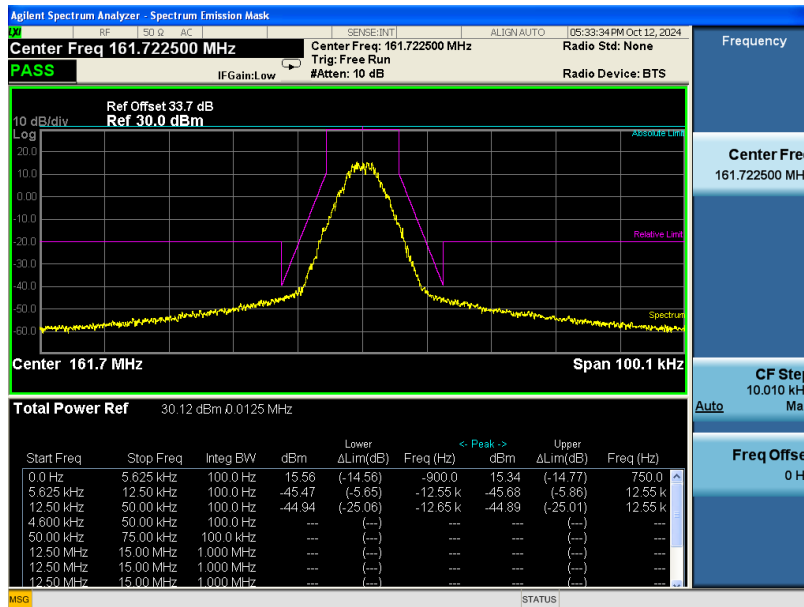


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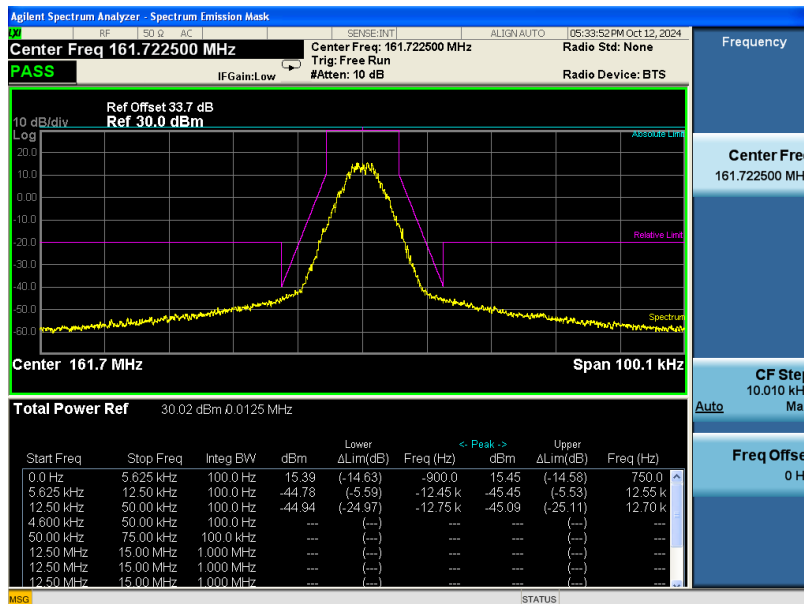
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Emission Masks

DL_C4FM_MCH_Pre-AGC

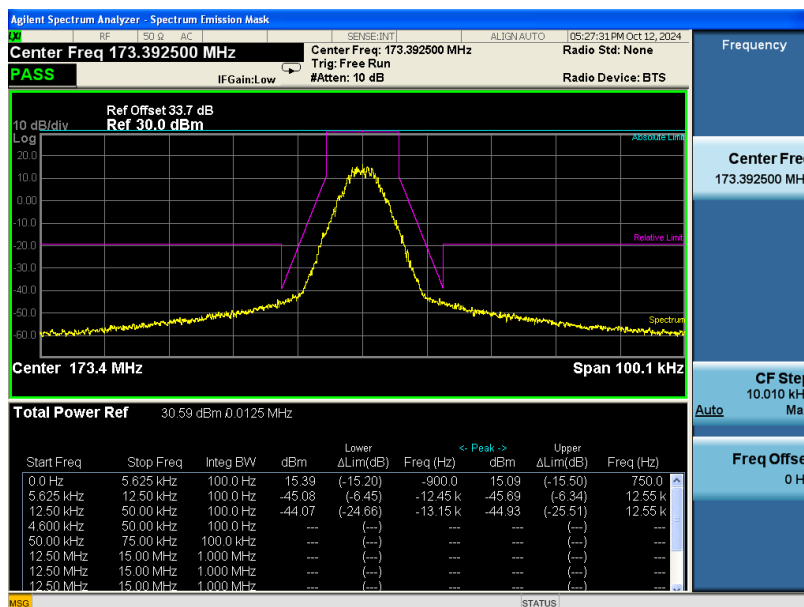


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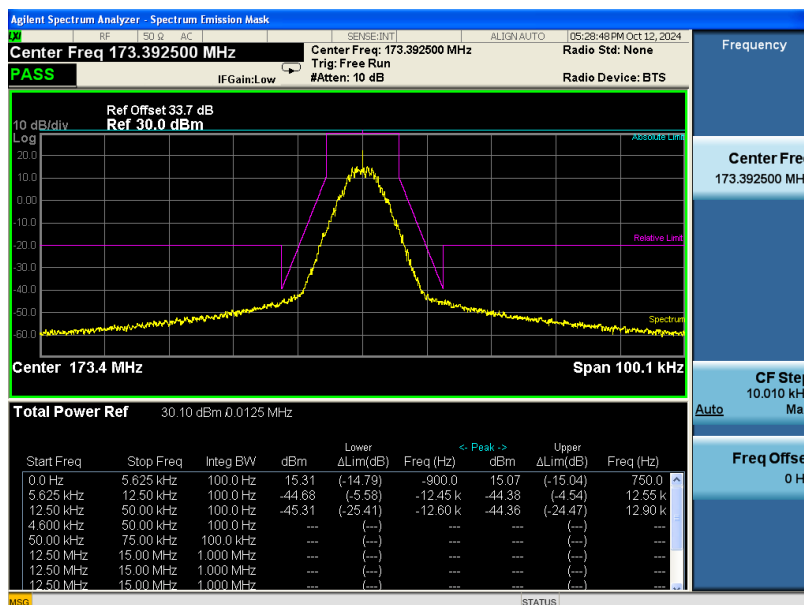


Emission Masks

DL_C4FM_HCH_Pre-AGC

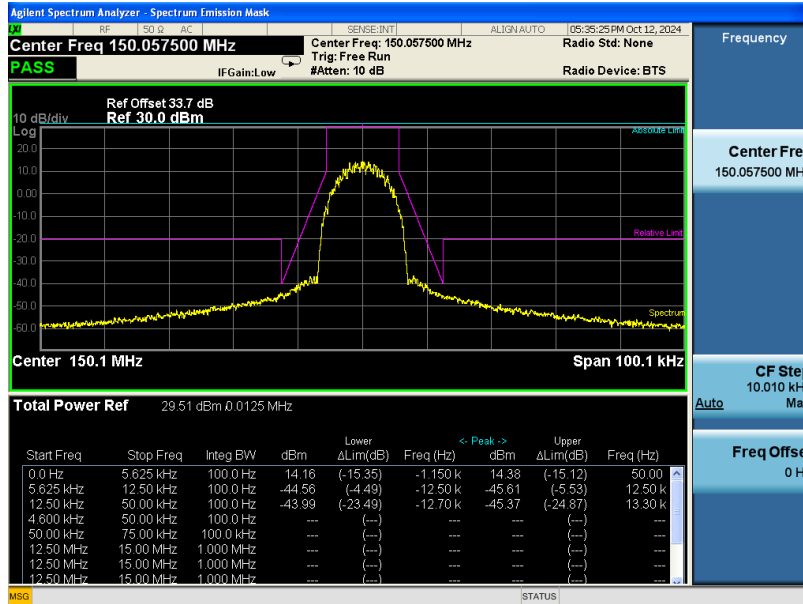


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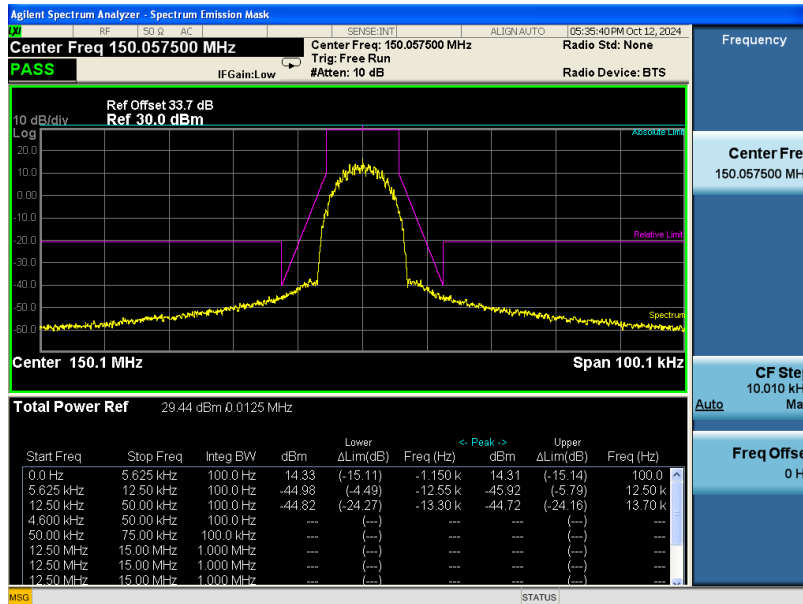


Emission Masks

DL_H-DQPSK_LCH_Pre-AGC

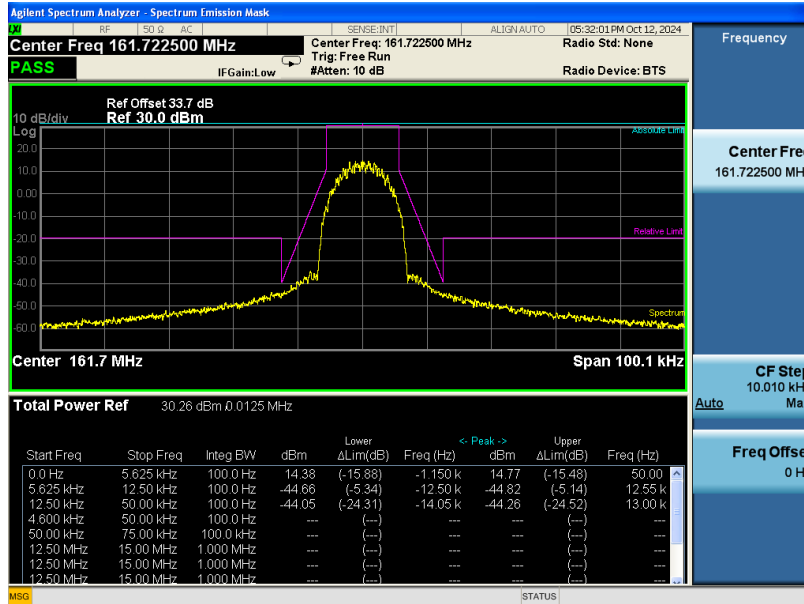


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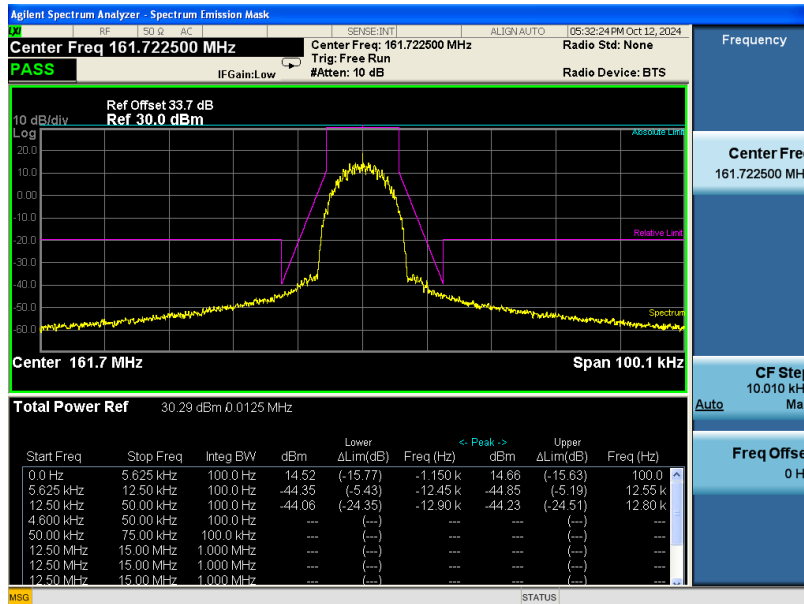


Emission Masks

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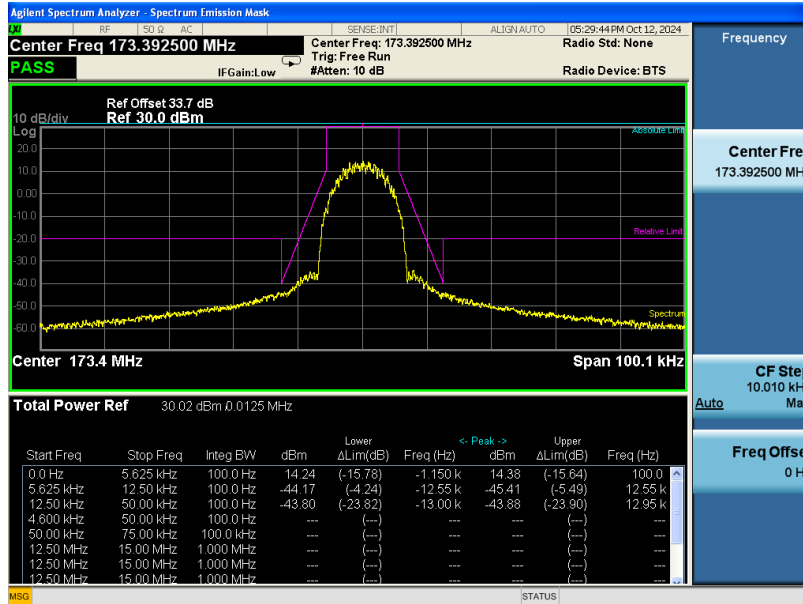


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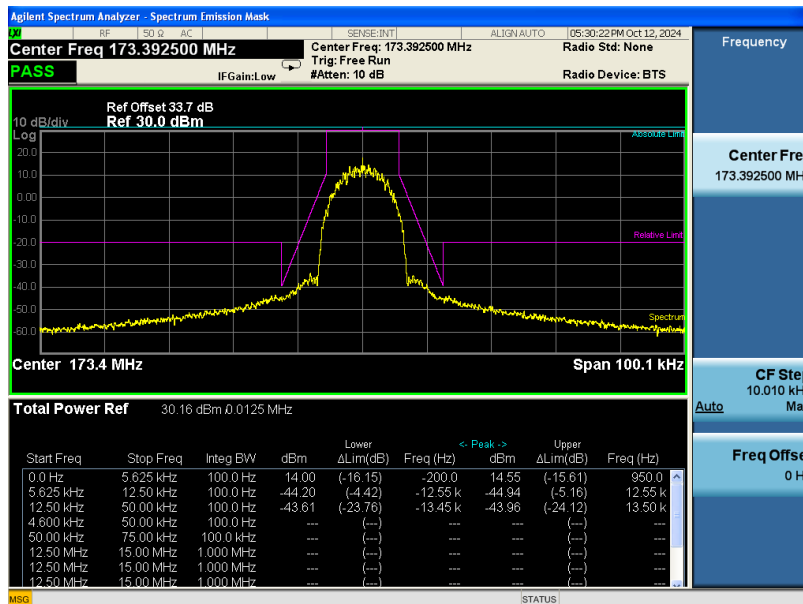


Emission Masks

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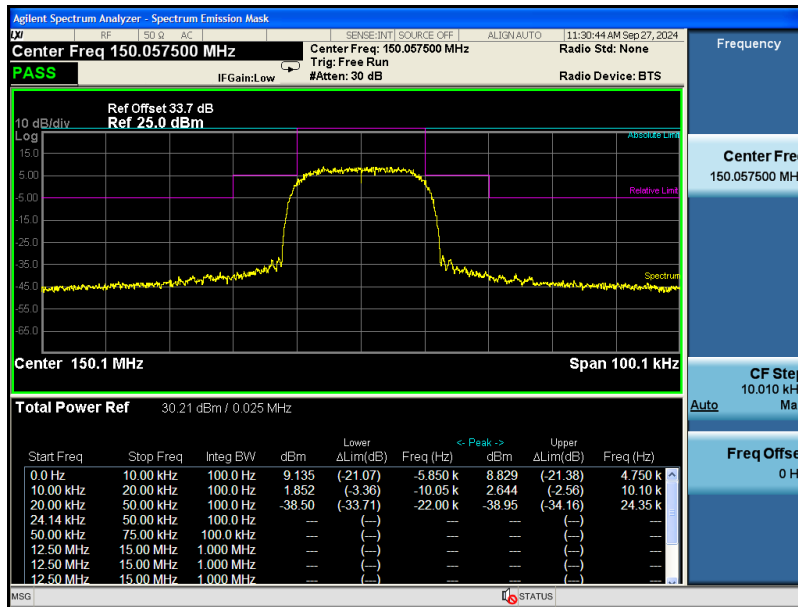


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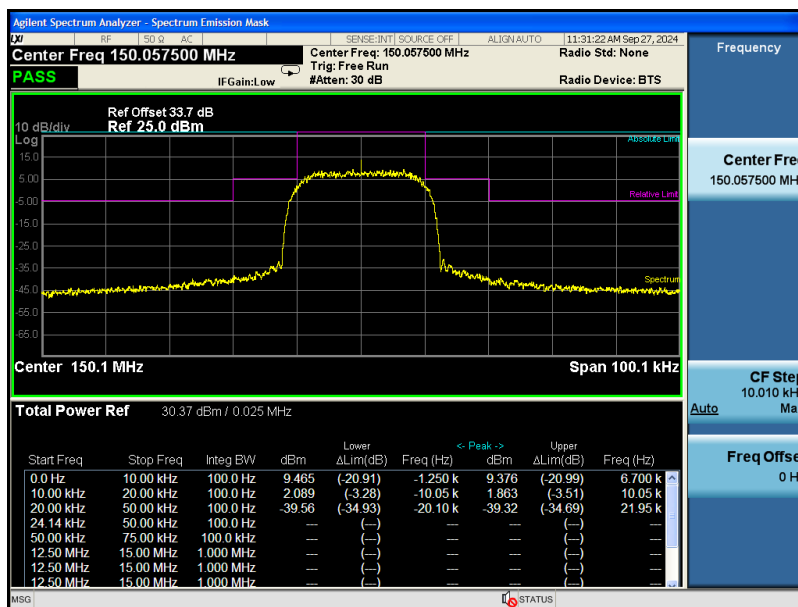


Emission Masks

DL_TETRA_LCH_Pre-AGC

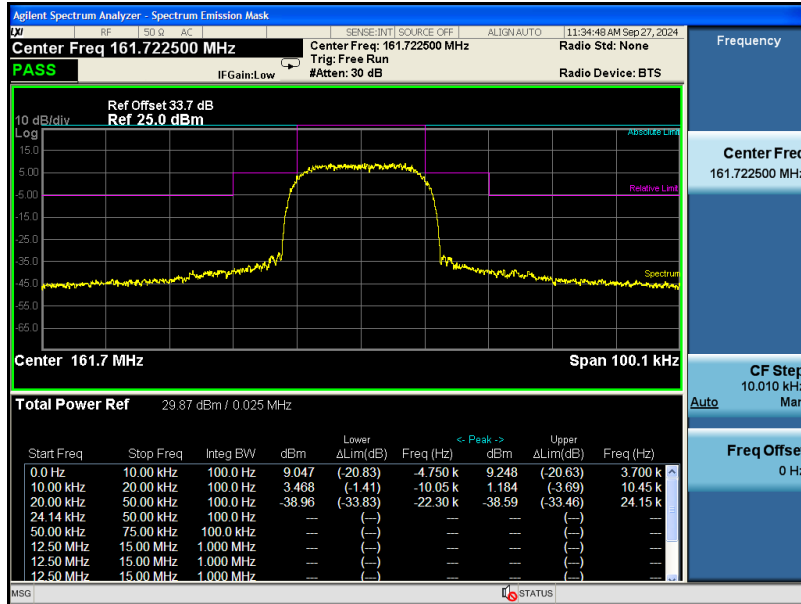


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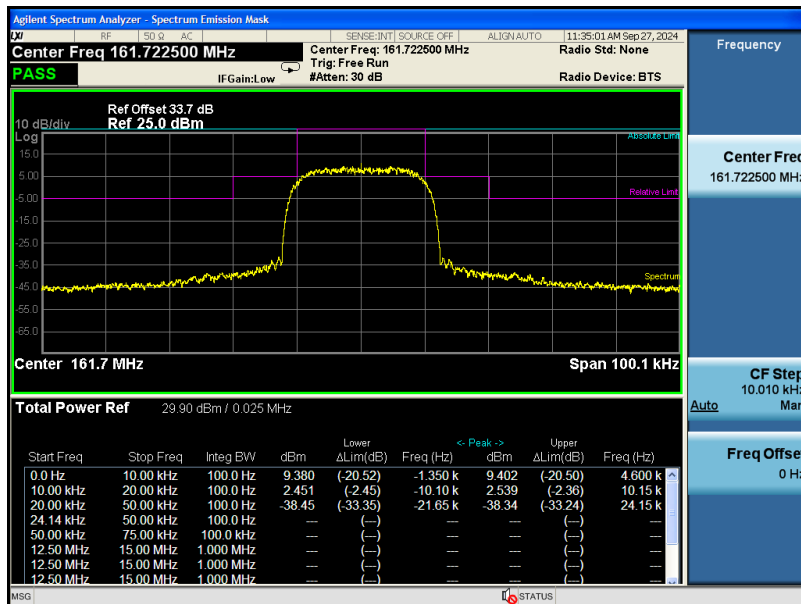


Emission Masks

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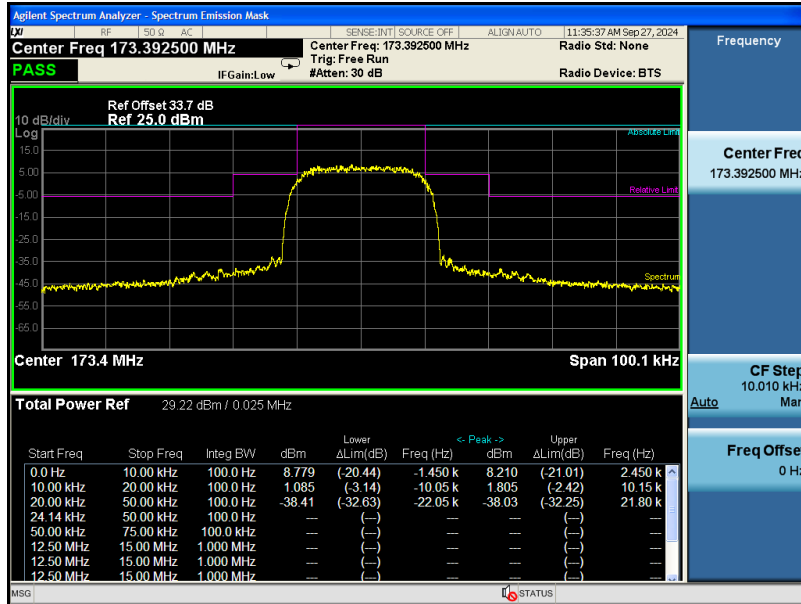


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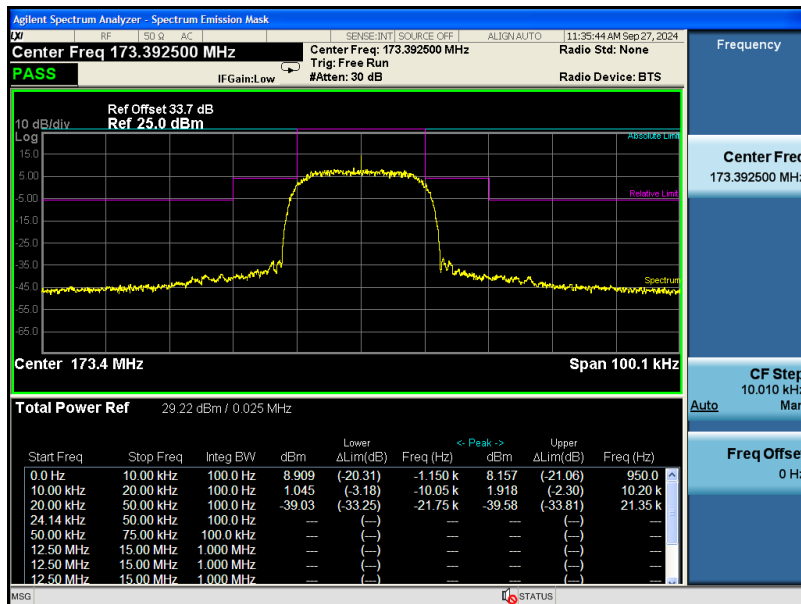


Emission Masks

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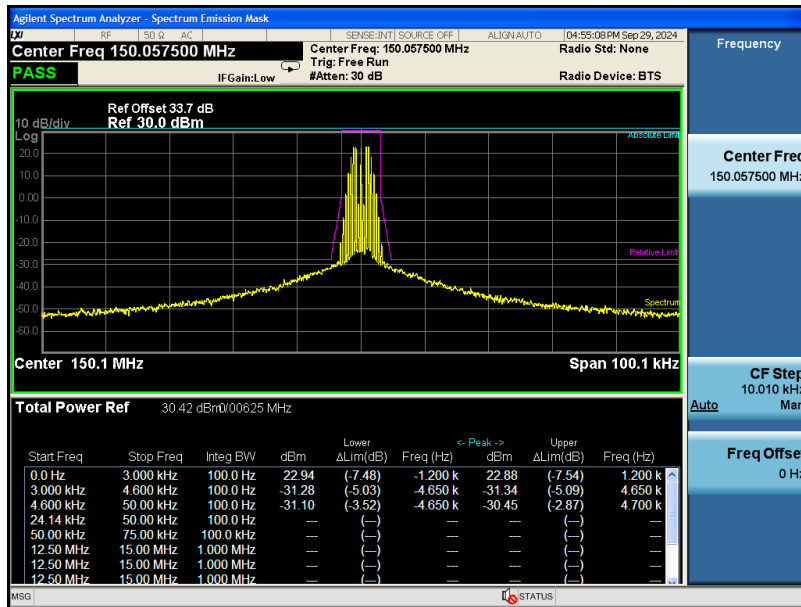


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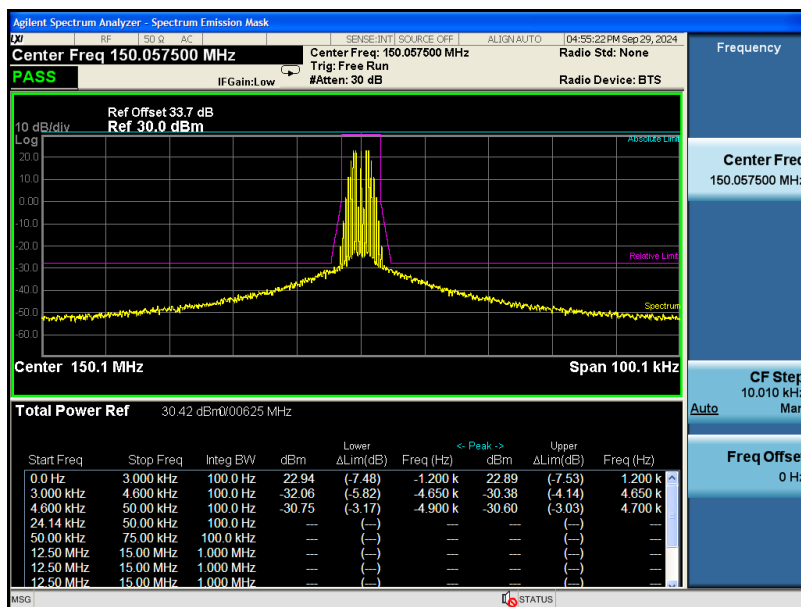


Emission Masks

UL_FM_LCH_Pre-AGC

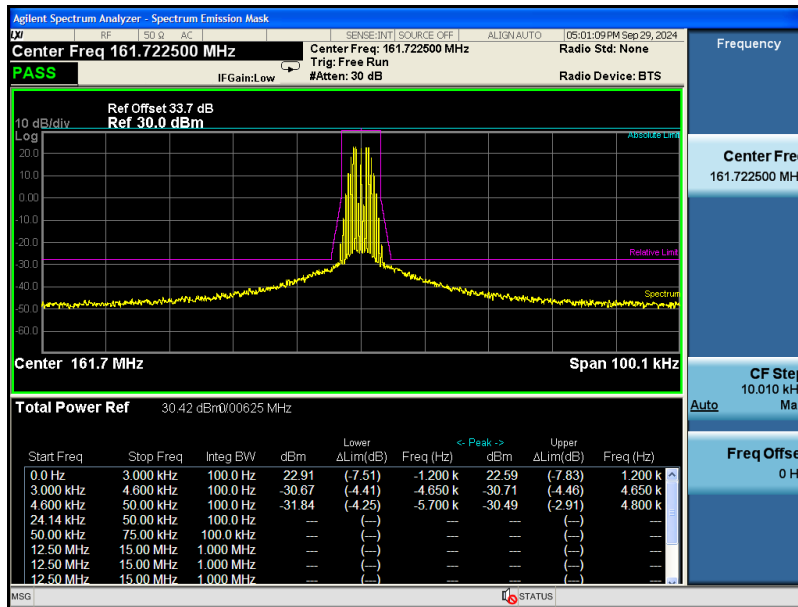


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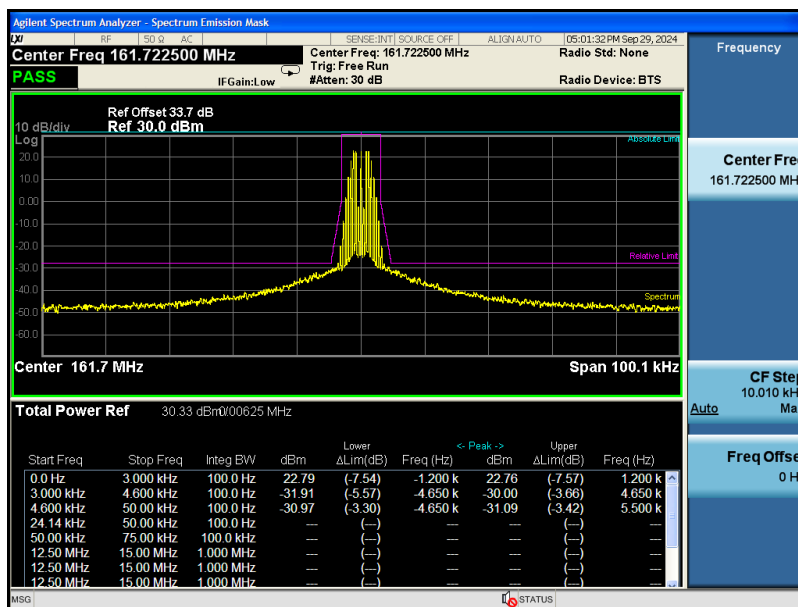


Emission Masks

UL_FM_MCH_Pre-AGC

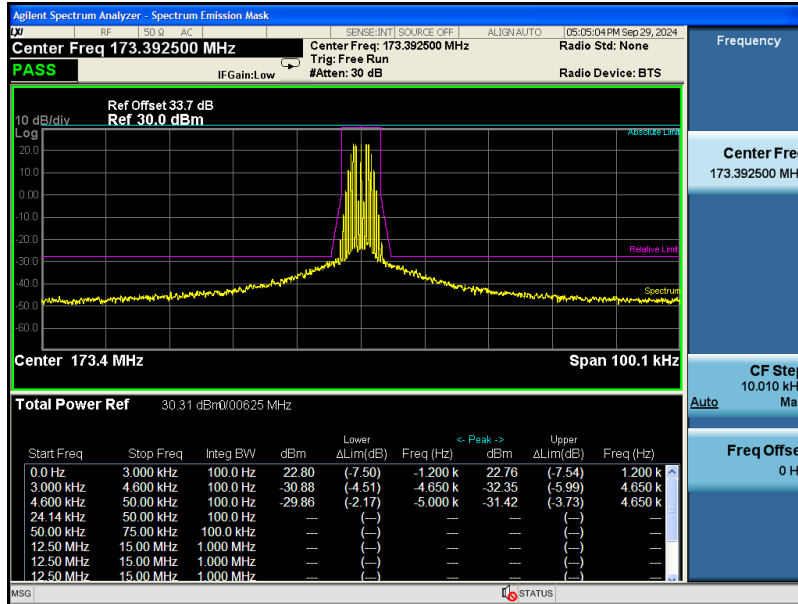


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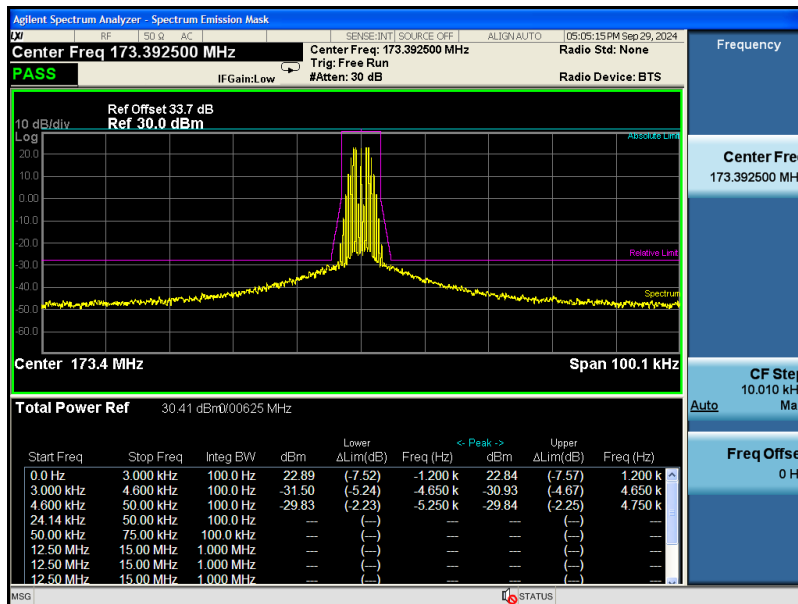


Emission Masks

UL_FM_MCH_Pre-AGC

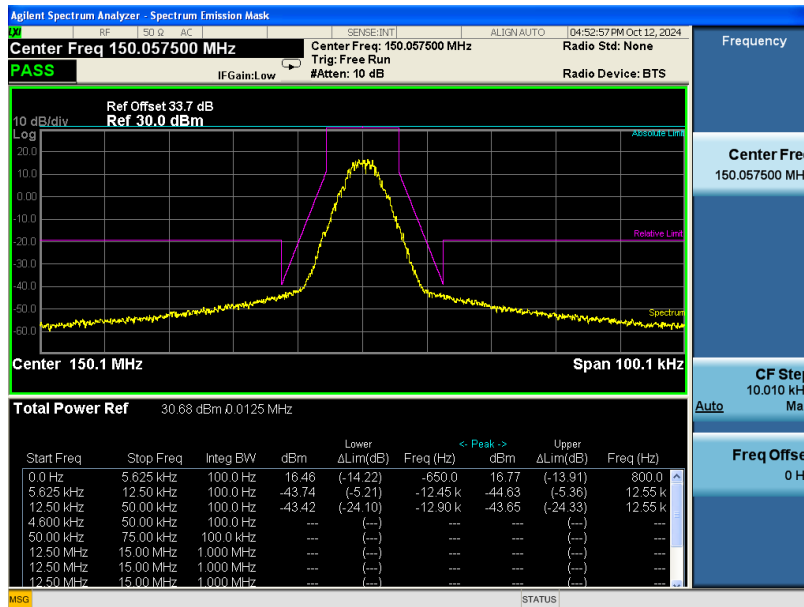


UL_FM_MCH_3dB above AGC

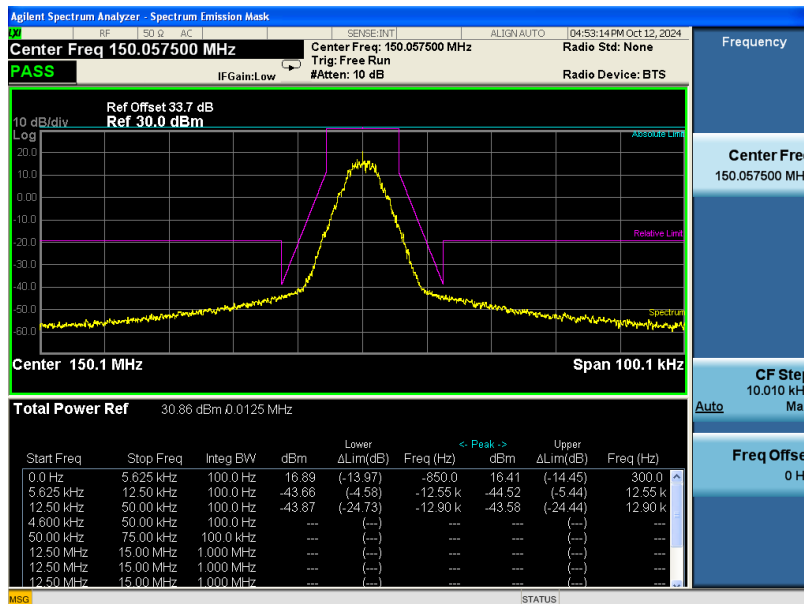


Emission Masks

UL_DMR_LCH_Pre-AGC

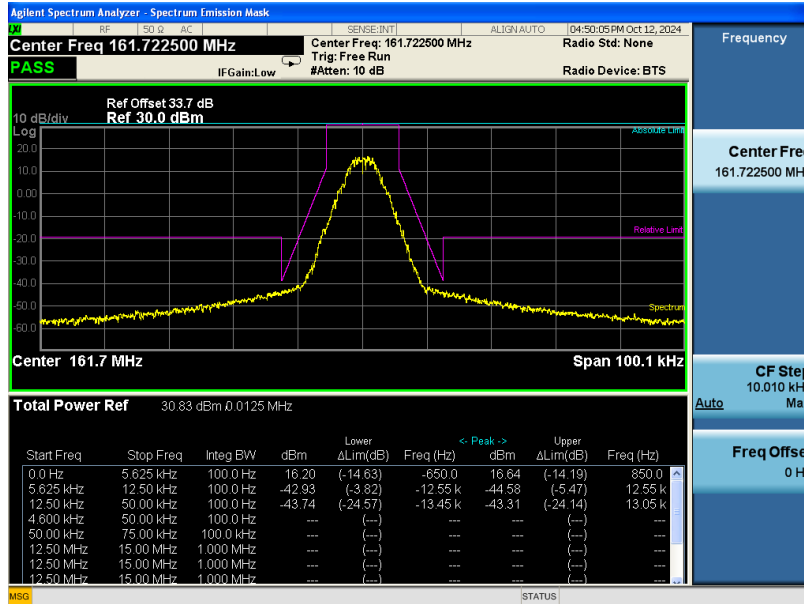


UL_DMR_LCH_3dB above AGC

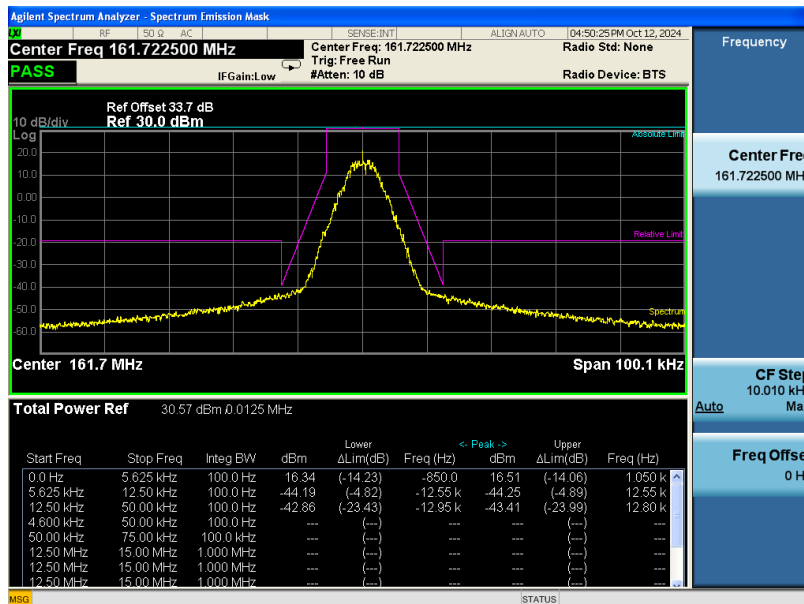


Emission Masks

UL_DMR_MCH_Pre-AGC

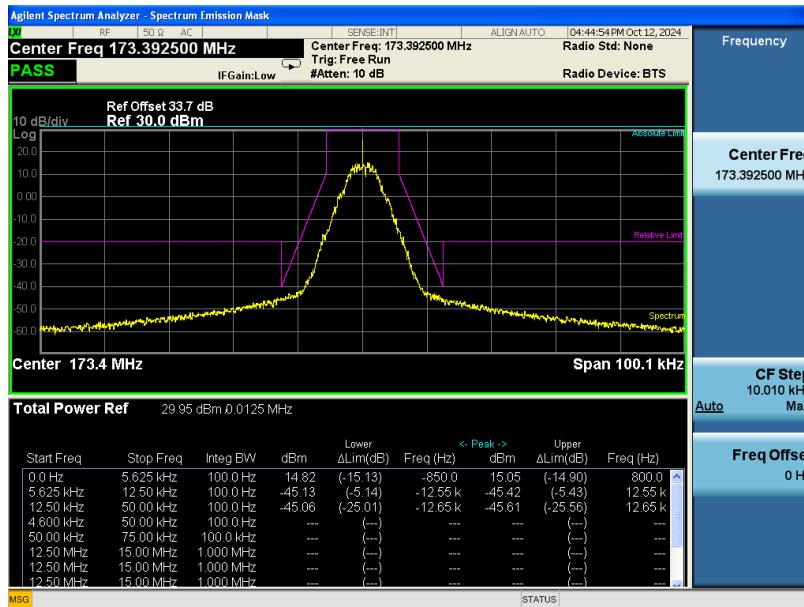


UL_DMR_MCH_3dB above AGC

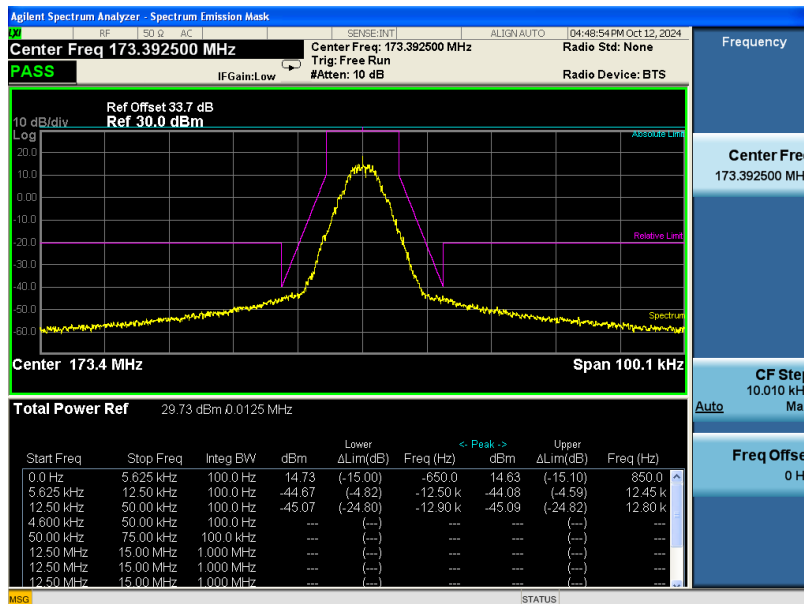


Emission Masks

UL_DMR_MCH_Pre-AGC



UL_DMR_MCH_3dB above AGC

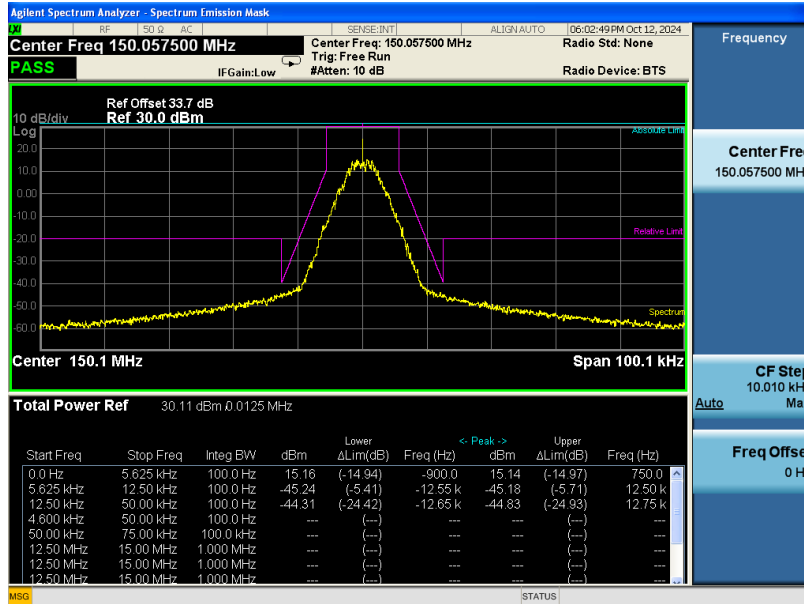


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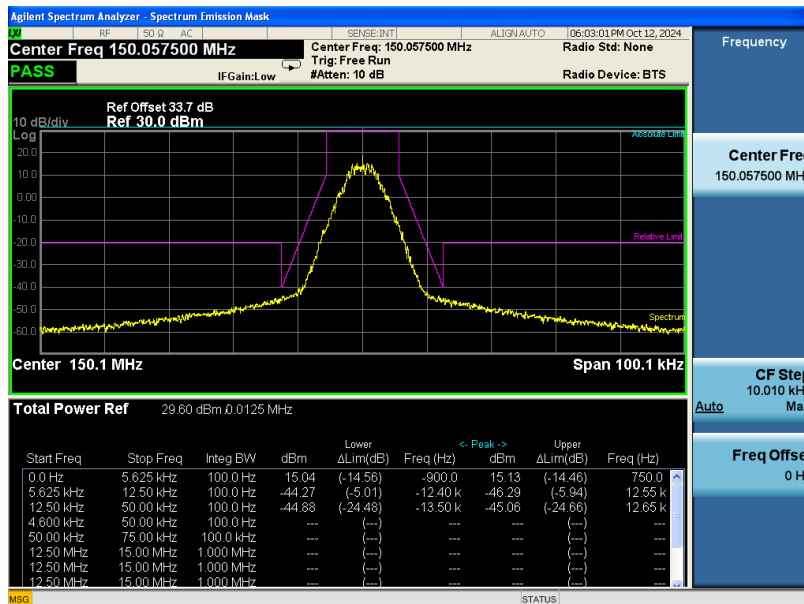
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Emission Masks

UL_C4FM_LCH_Pre-AGC



UL_C4FM_LCH_3dB above AGC



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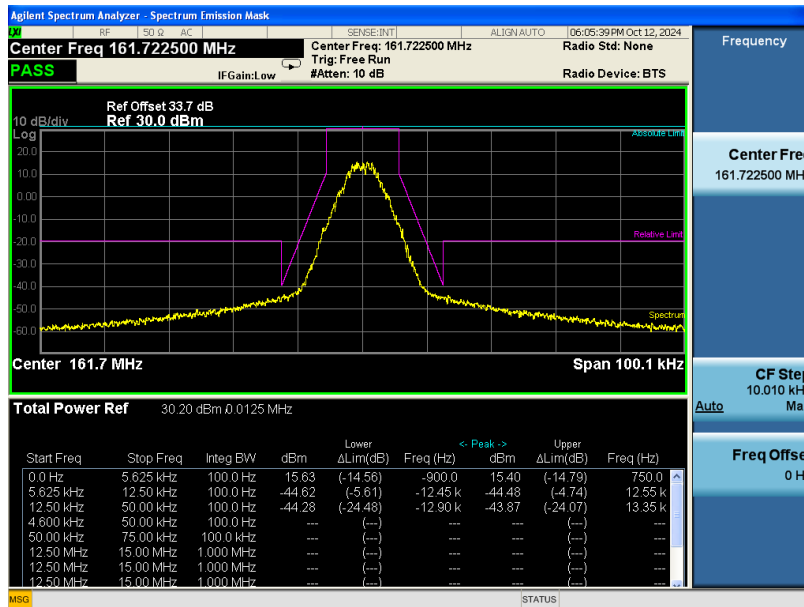
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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

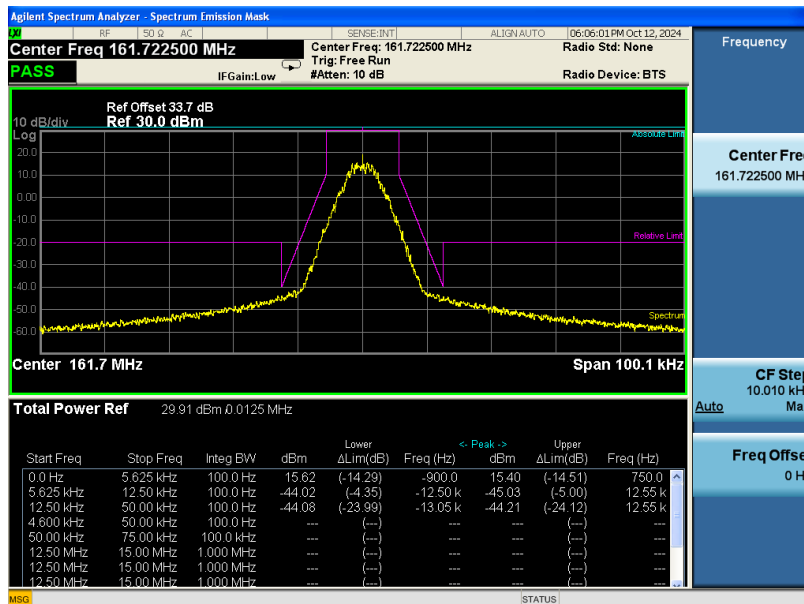
t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Emission Masks

UL_C4FM_MCH_Pre-AGC

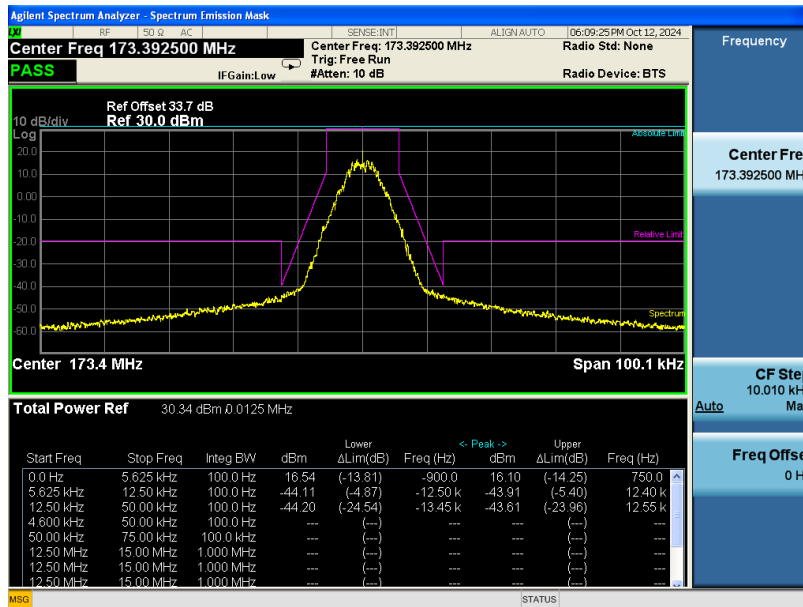


UL_C4FM_MCH_3dB above AGC

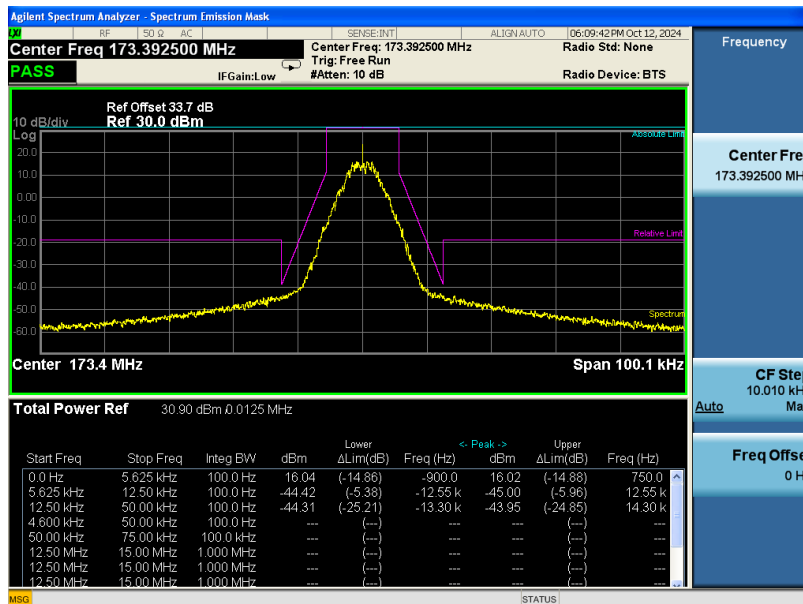


Emission Masks

UL_C4FM_HCH_Pre-AGC

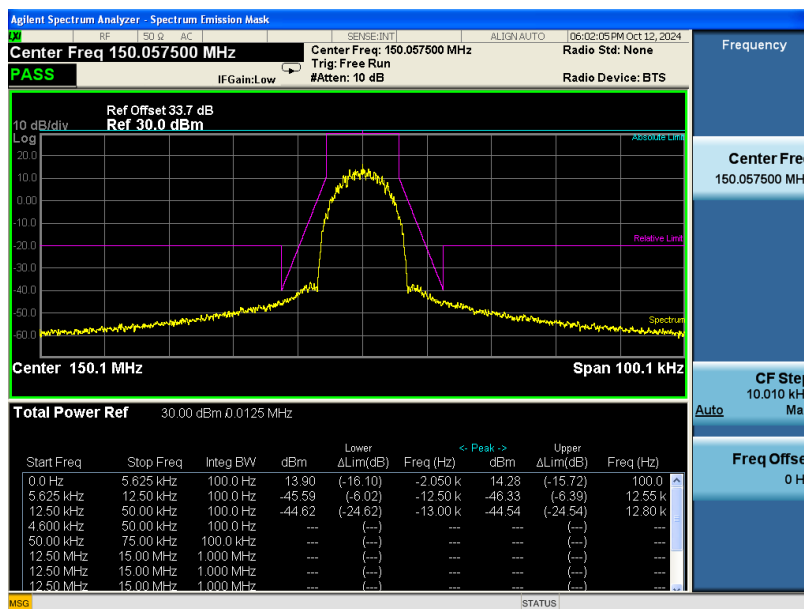


UL_C4FM_HCH_3dB above AGC

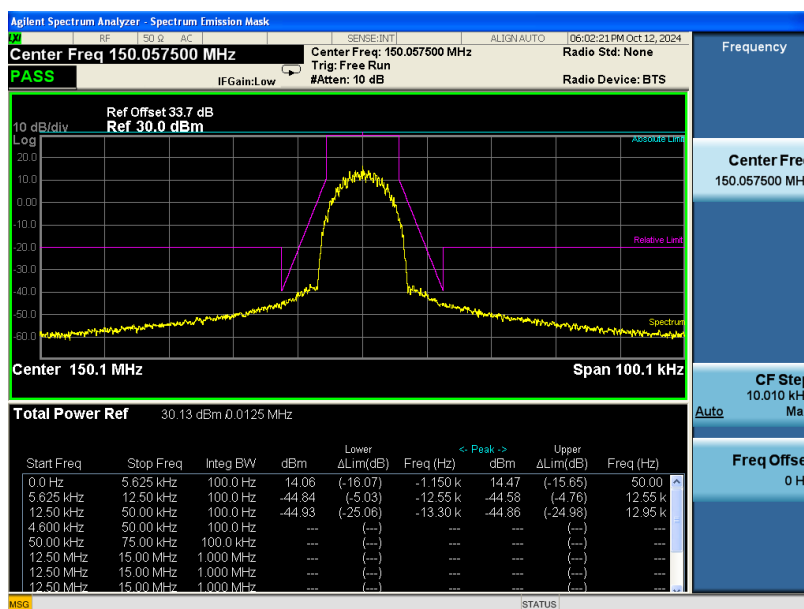


Emission Masks

UL_H-DQPSK_LCH_Pre-AGC

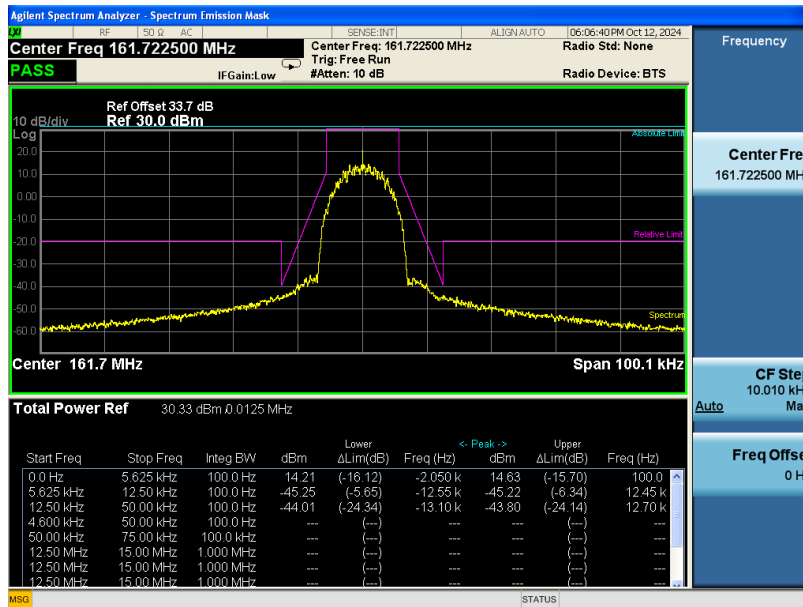


UL_H-DQPSK_LCH_3dB above AGC

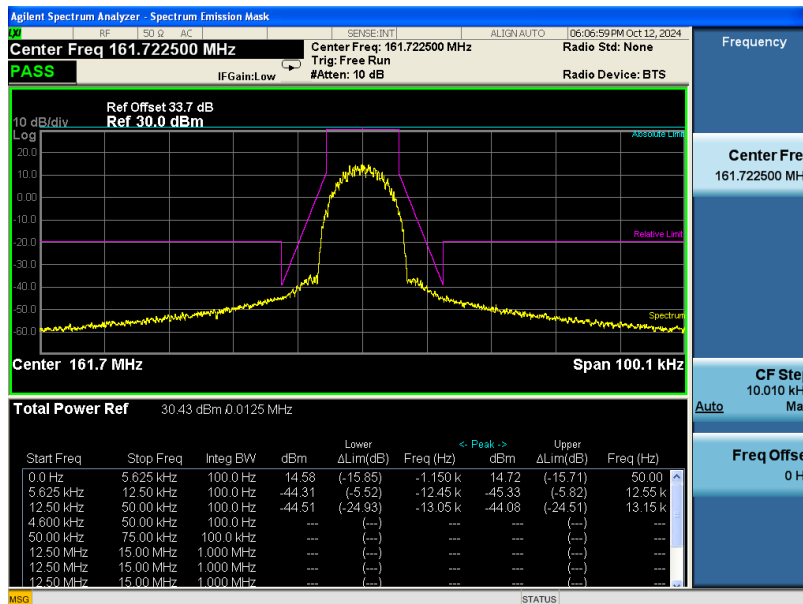


Emission Masks

UL_H-DQPSK_MCH_Pre-AGC



UL_H-DQPSK_MCH_3dB above AGC

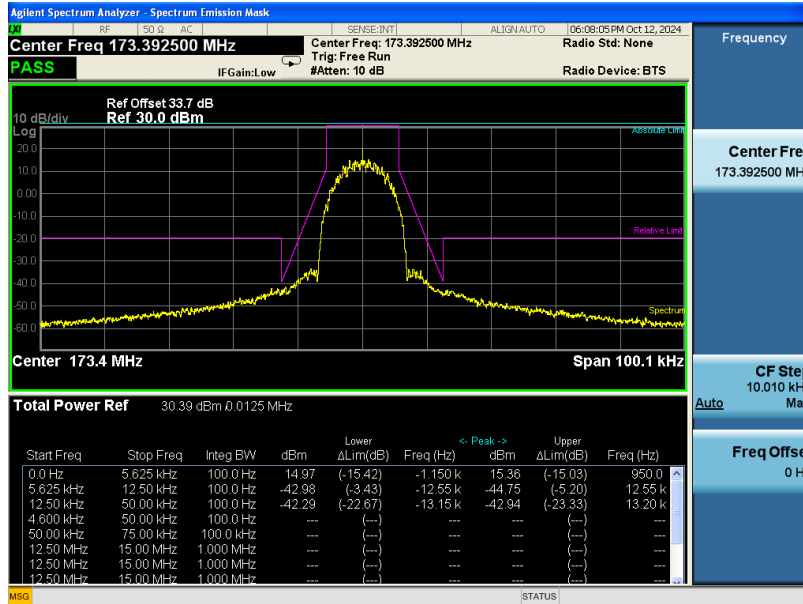


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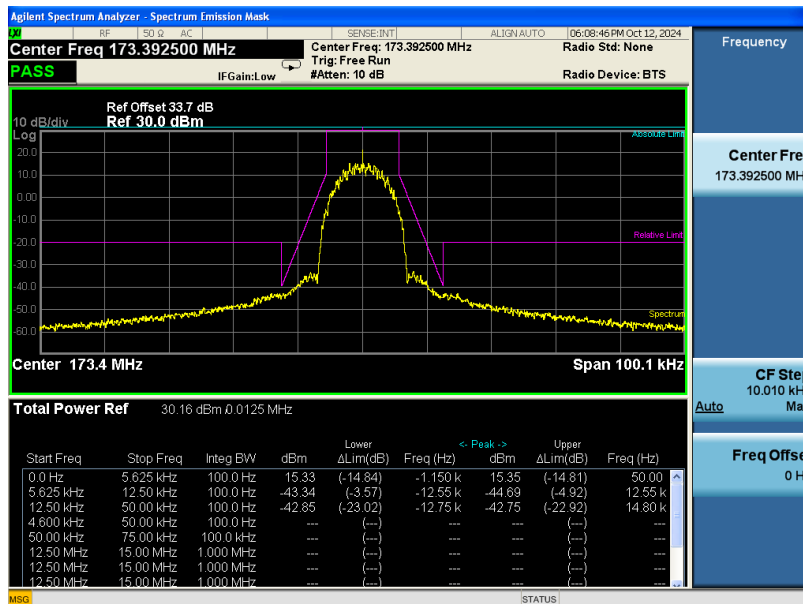
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Emission Masks

UL_H-DQPSK_HCH_Pre-AGC



UL_H-DQPSK_HCH_3dB above AGC

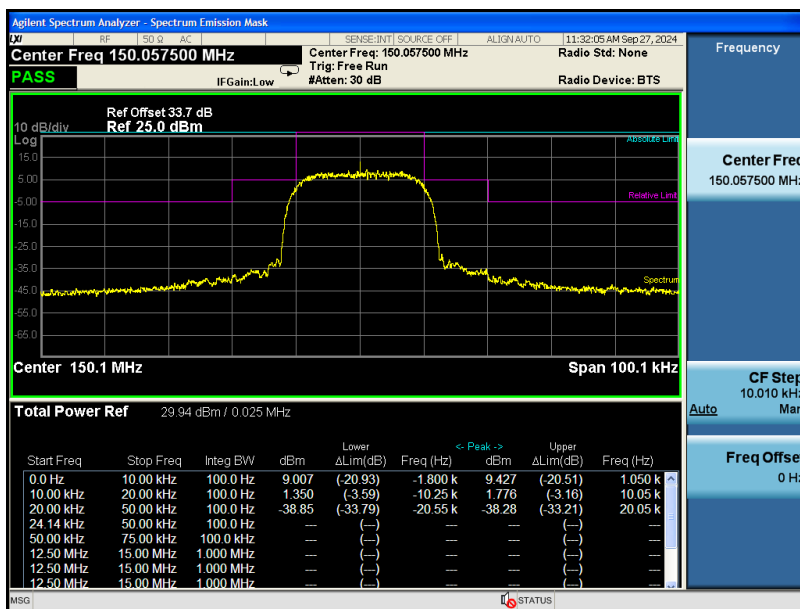


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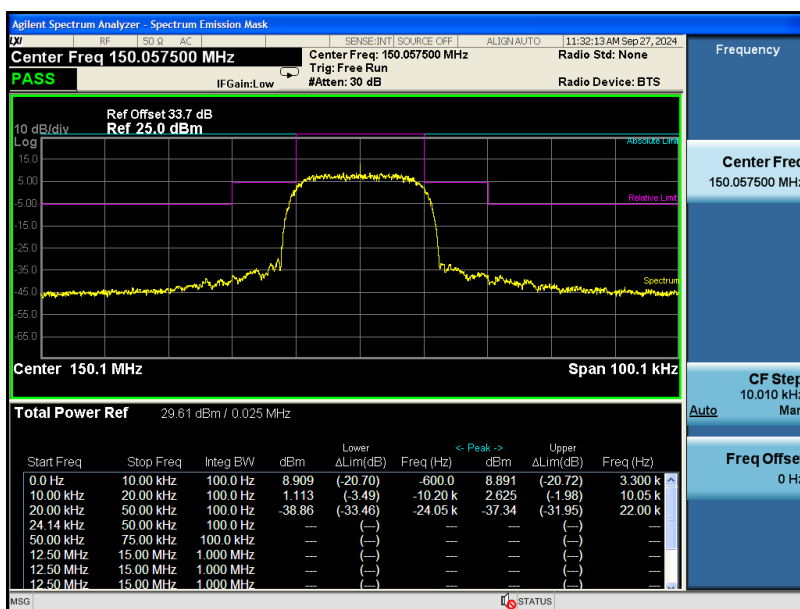
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Emission Masks

UL_TETRA_LCH_Pre-AGC

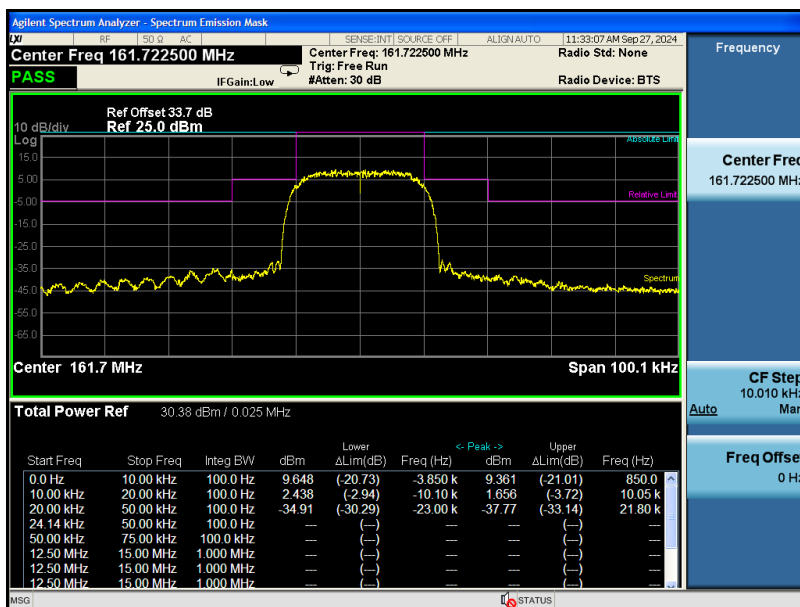


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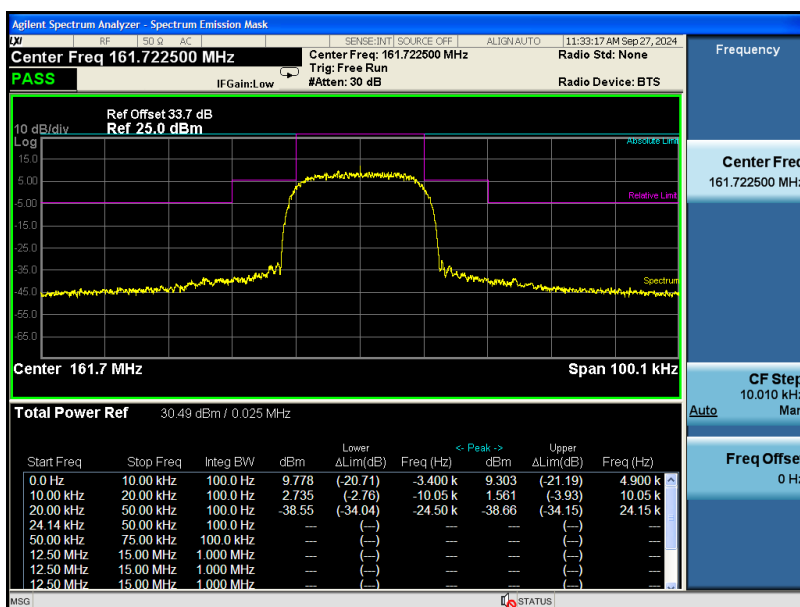


Emission Masks

UL_TETRA_MCH_Pre-AGC

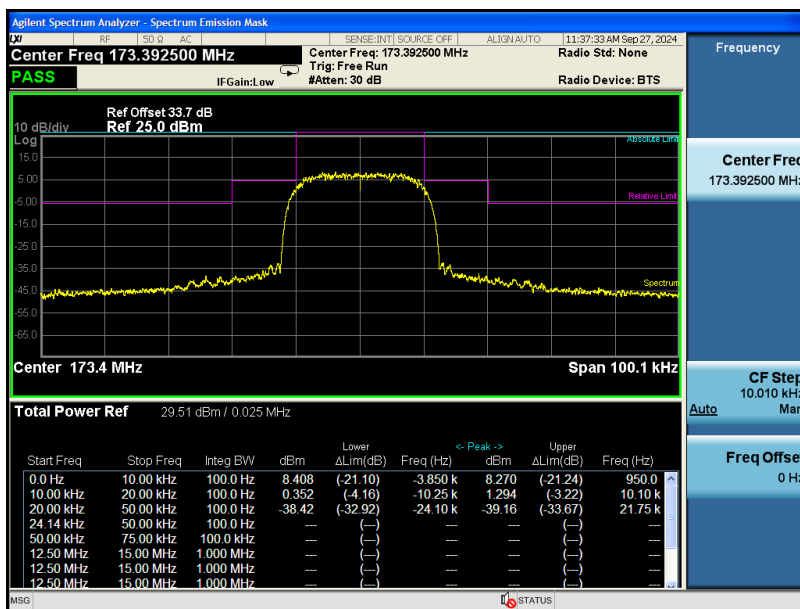


UL_TETRA_MCH_3dB above AGC

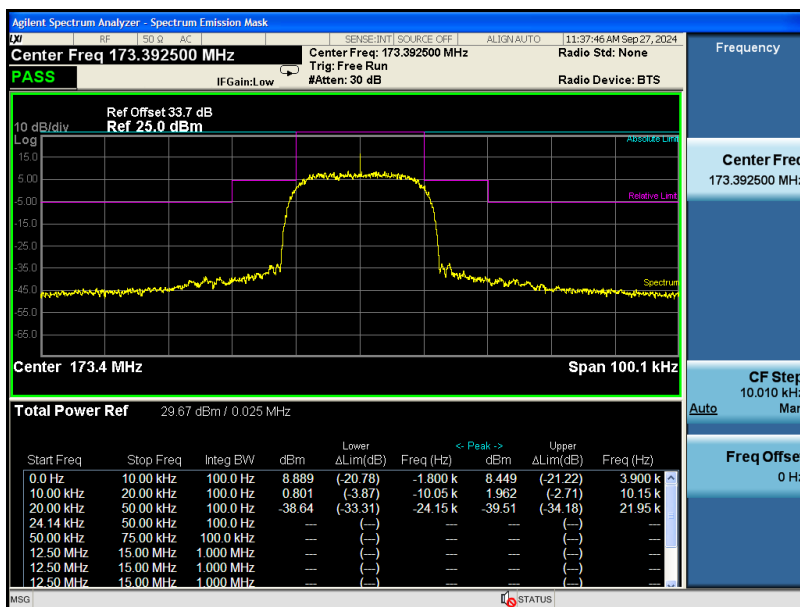


Emission Masks

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	6.71	≤9	PASS
UL	6.33		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	171.5	6.25	Pre-AGC	-24.10	-8.87
			3dB above AGC	-23.20	-7.97
		12.5	Pre-AGC	-23.05	-7.82
			3dB above AGC	-22.23	-7.00
		25	Pre-AGC	-20.84	-5.61
			3dB above AGC	-20.58	-5.35
UL	171.9	6.25	Pre-AGC	-23.36	-8.13
			3dB above AGC	-22.41	-7.18
		12.5	Pre-AGC	-21.74	-6.51
			3dB above AGC	-21.53	-6.30
		25	Pre-AGC	-22.47	-7.24
			3dB above AGC	-21.64	-6.41

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 -5.35/10kHz+ 0dBi- 2.15dB= -3.20dBm, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

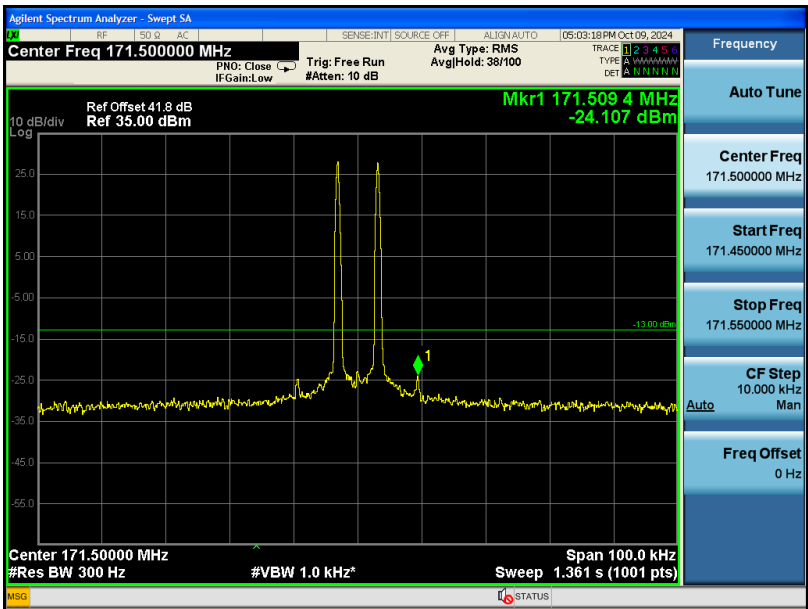


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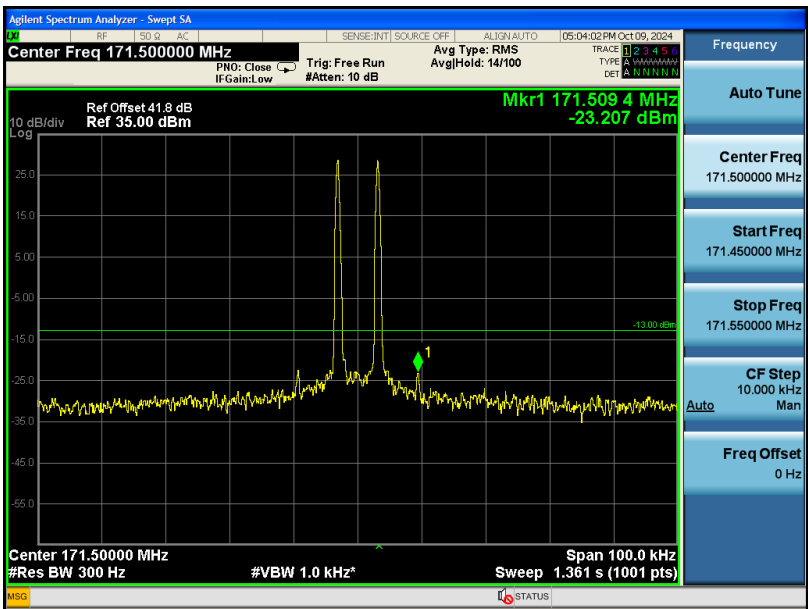
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Intermodulation

DL_6.25kHz_Pre-AGC



DL_6.25kHz_3dB above AGC



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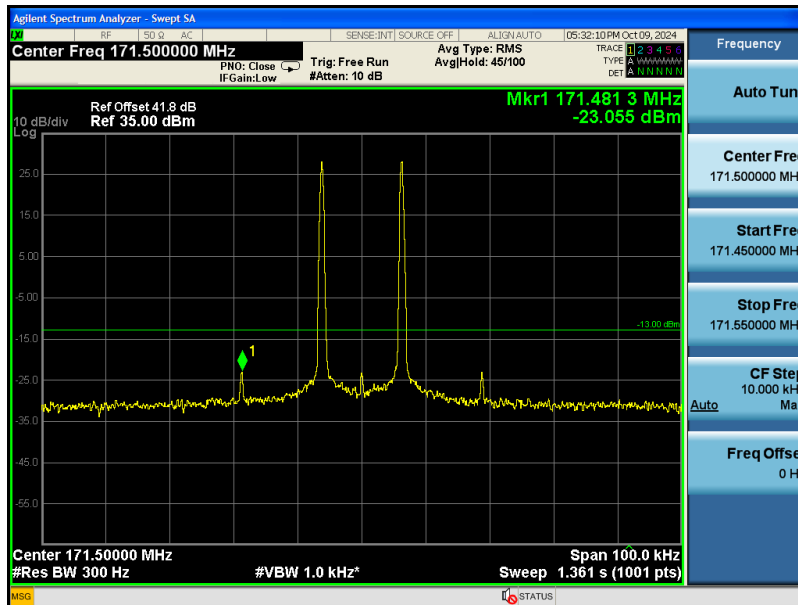
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Guangzhou Branch Testing Center EEC Laboratory

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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

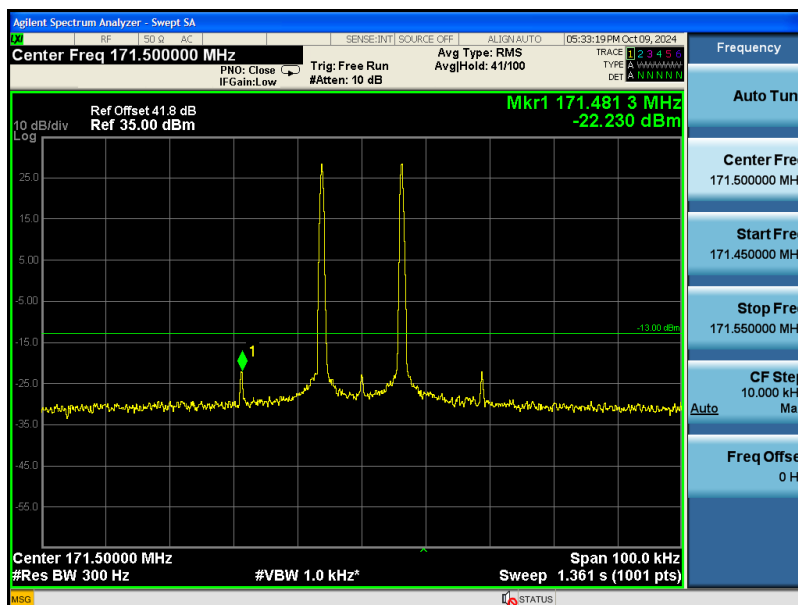
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t (86-20) 82155555 sgs.china@sgs.com

Intermodulation

DL_12.5kHz_Pre-AGC

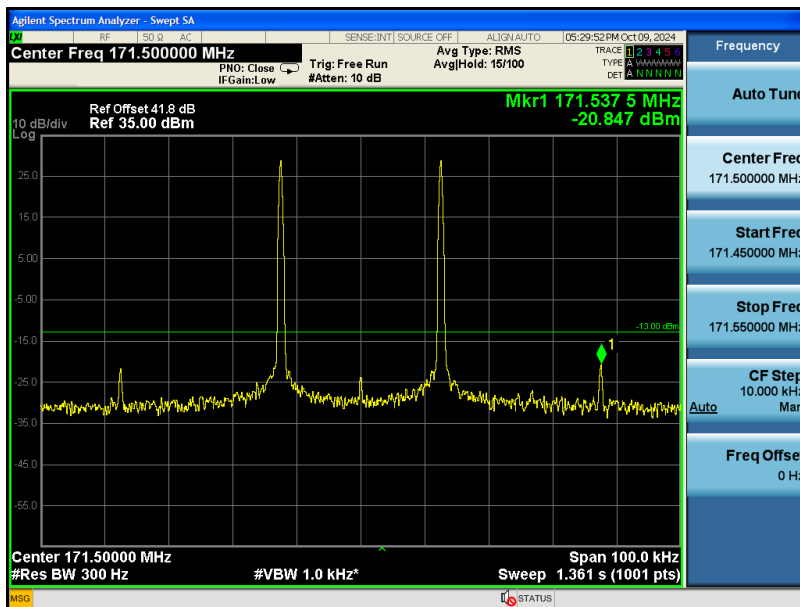


DL_12.5kHz_3dB above AGC

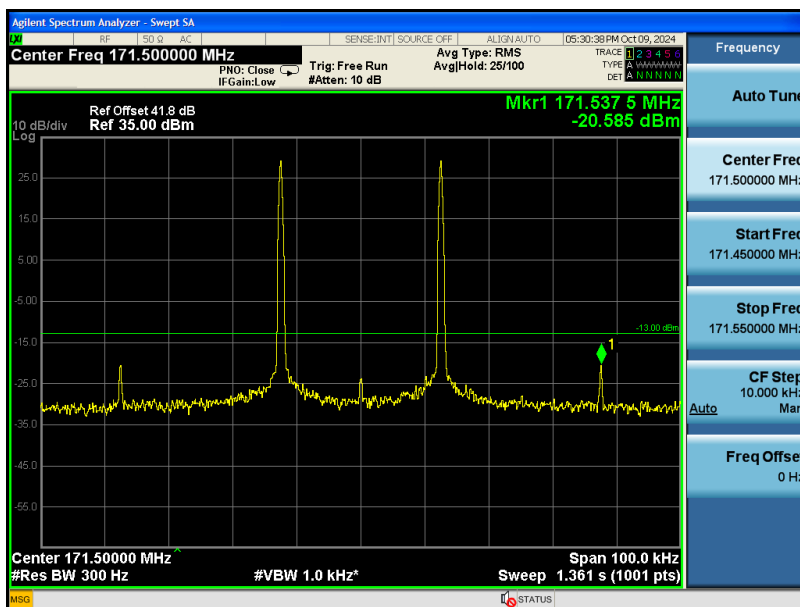


Intermodulation

DL_25kHz_Pre-AGC

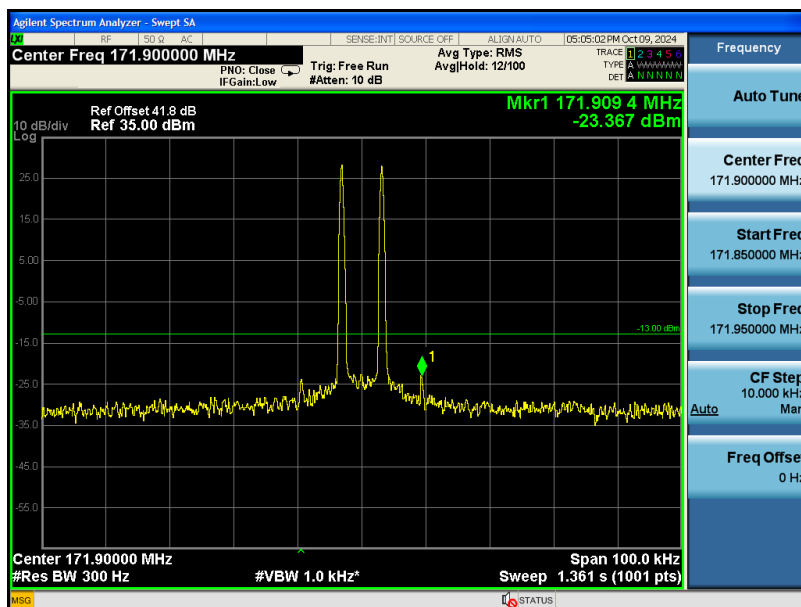


DL_25kHz_3dB above AGC

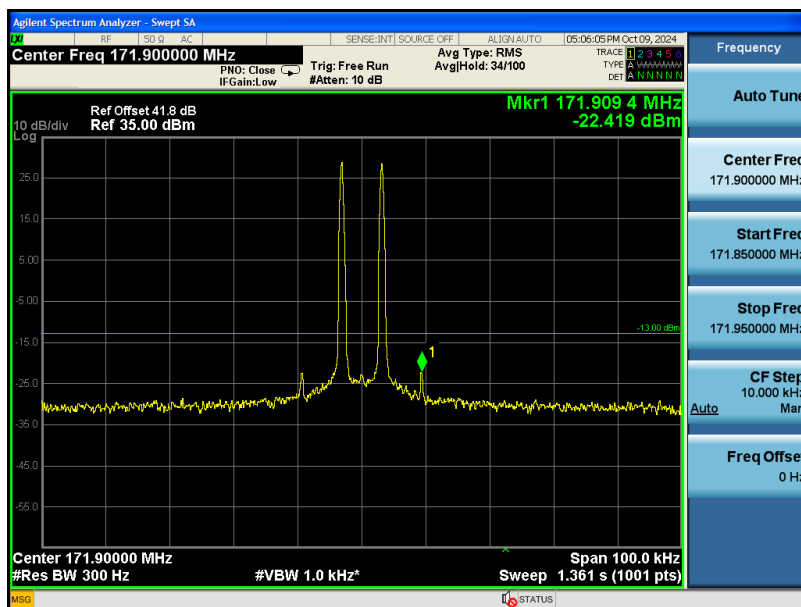


Intermodulation

UL_6.25kHz_Pre-AGC

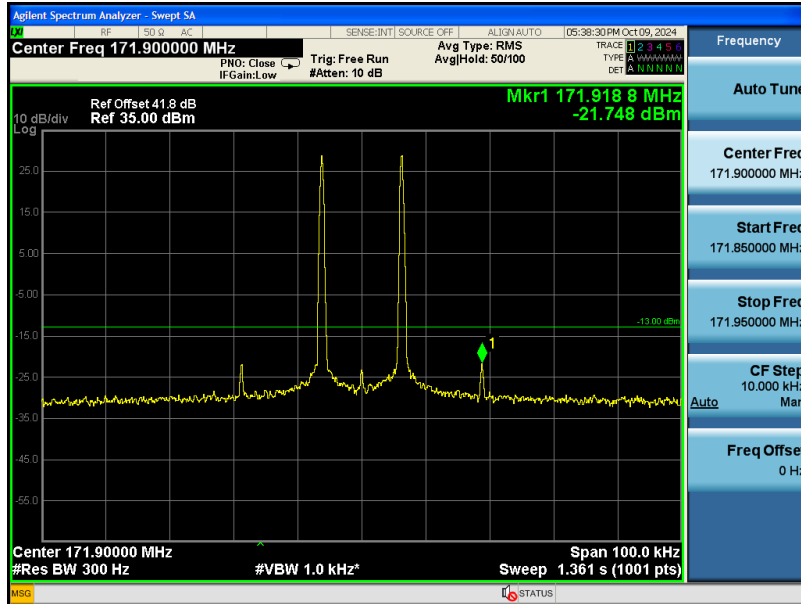


UL_6.25kHz_3dB above AGC

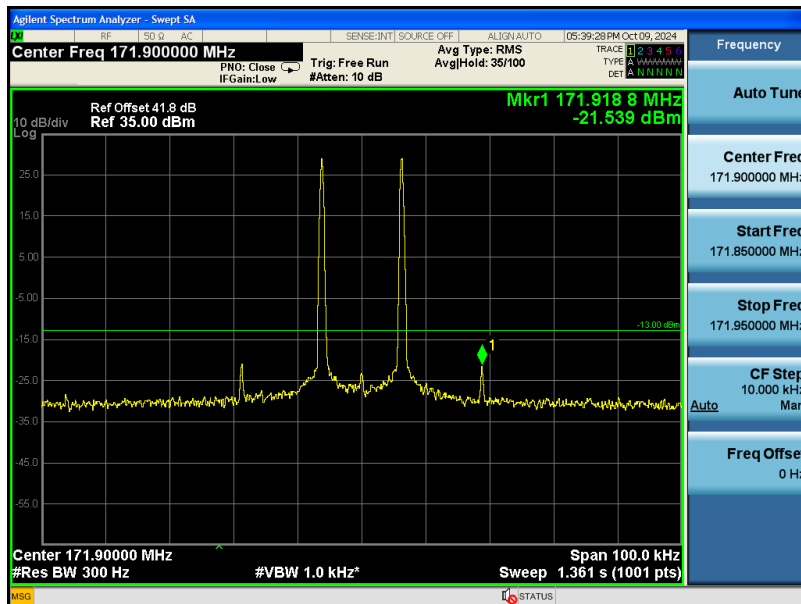


Intermodulation

UL_12.5kHz_Pre-AGC



UL_12.5kHz_3dB above AGC

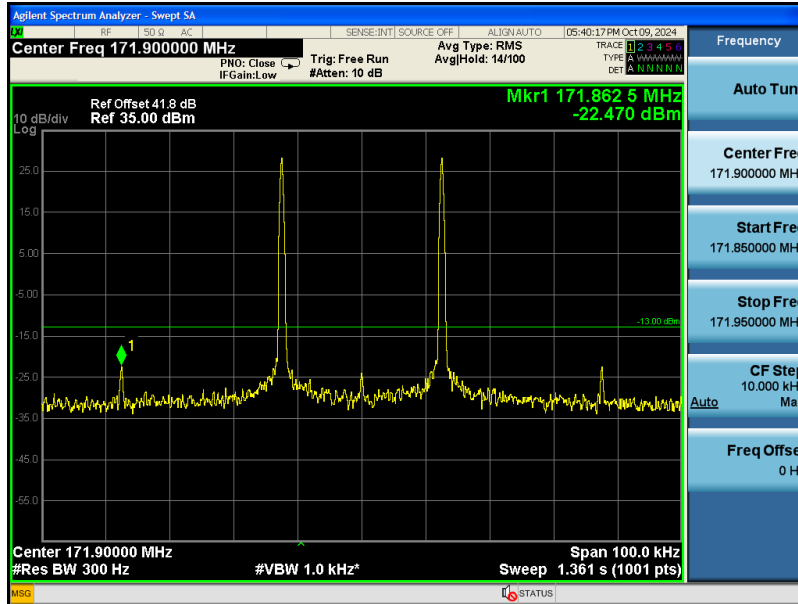


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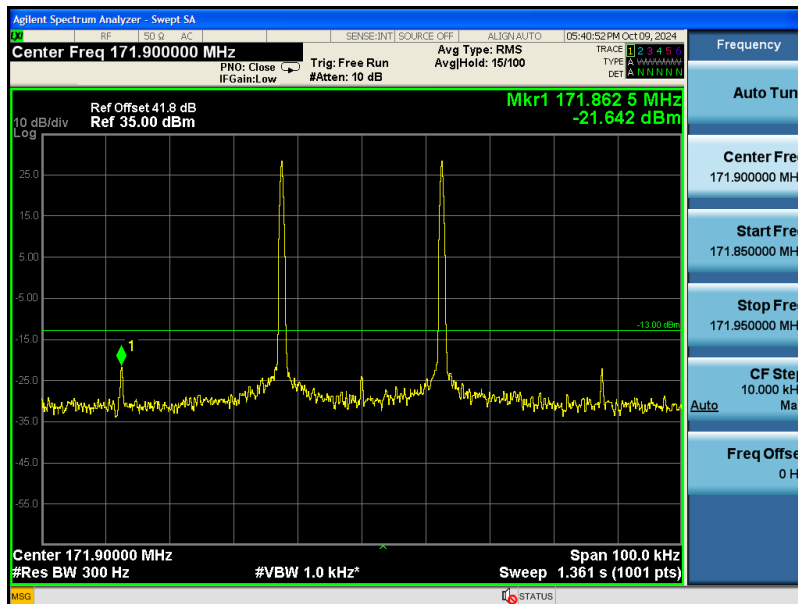
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Intermodulation

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	-41.42	≤-13	PASS
			30-1000	-19.60	≤-13	PASS
			1000-1734	-27.84	≤-13	PASS
UL	CW	MCH	0.09-30	-42.21	≤-13	PASS
			30-1000	-16.45	≤-13	PASS
			1000-1734	-23.67	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displaved test plots in this report.						

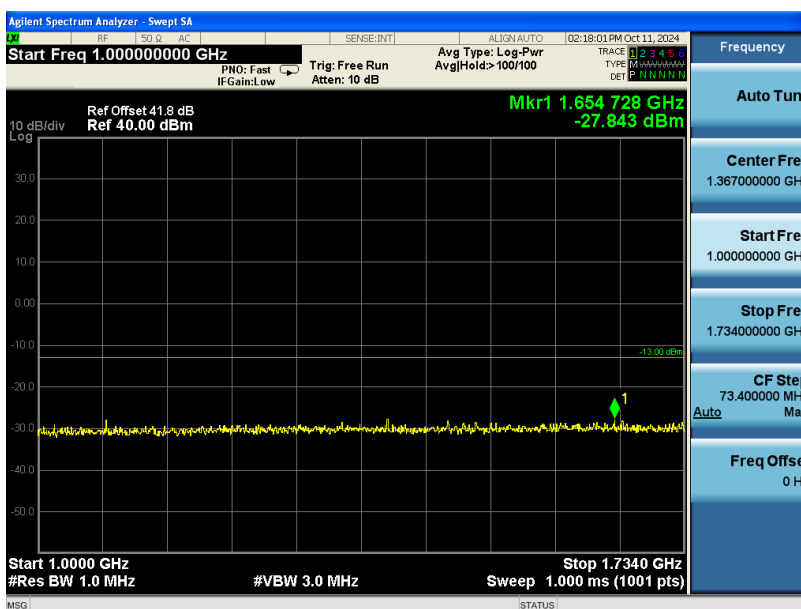
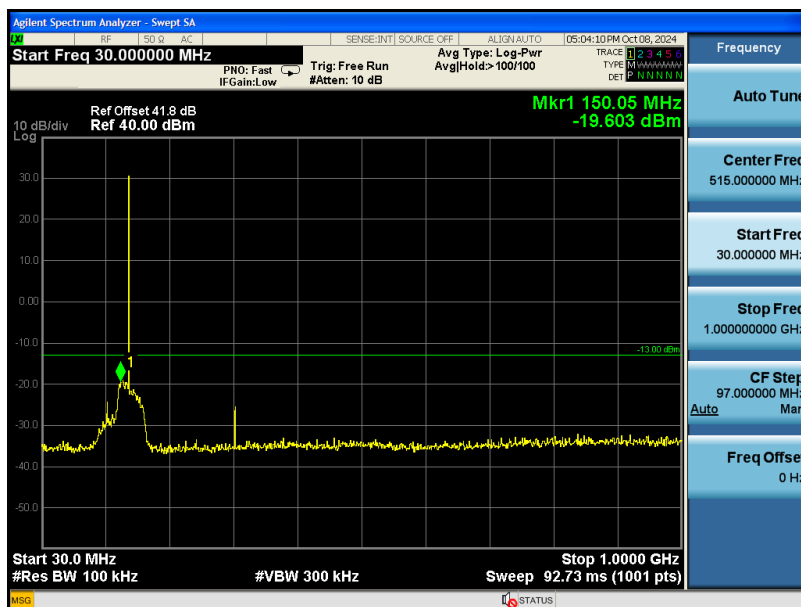


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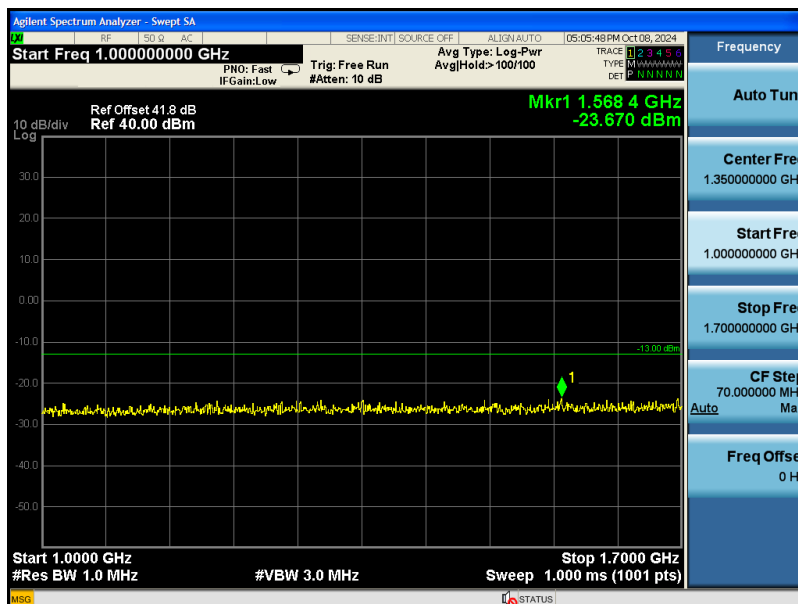
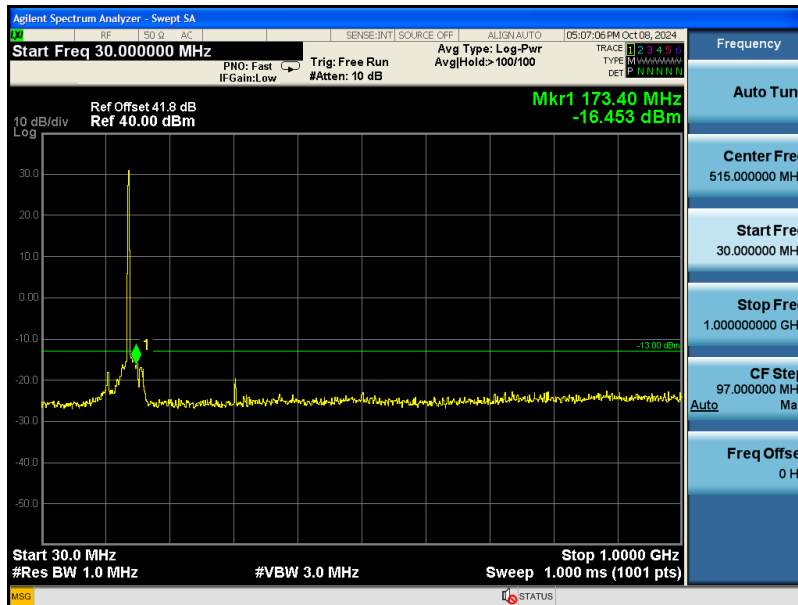
Conducted Spurious emissions

DL_CW_MCH



Conducted Spurious emissions

UL_CW_MCH



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8 Noise

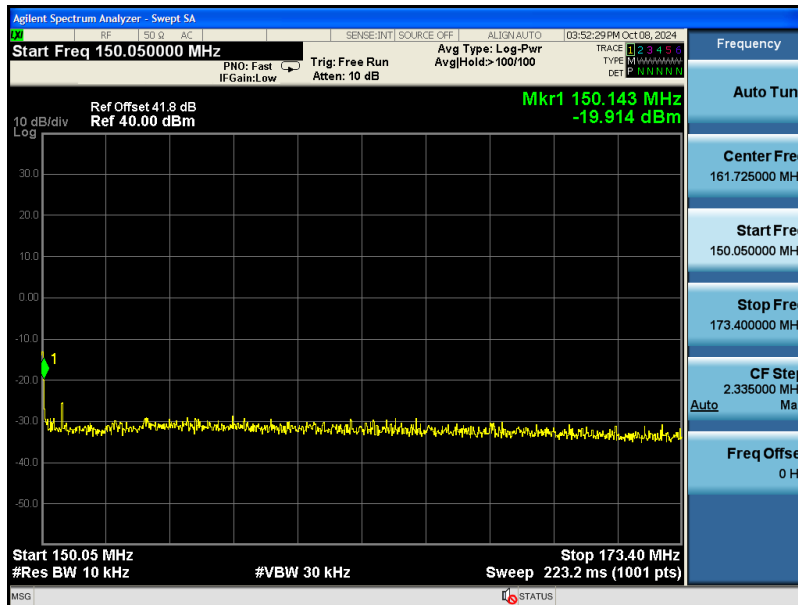
Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	150.05-173.4	-19.91
UL	150.05-173.4	-24.14
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-30	-52.09
	30-149.05	-28.53
	174.4-1740	-32.75
UL	0.009-30	-51.74
	30-149.05	-29.43
	174.4-1740	-33.88

Remark:

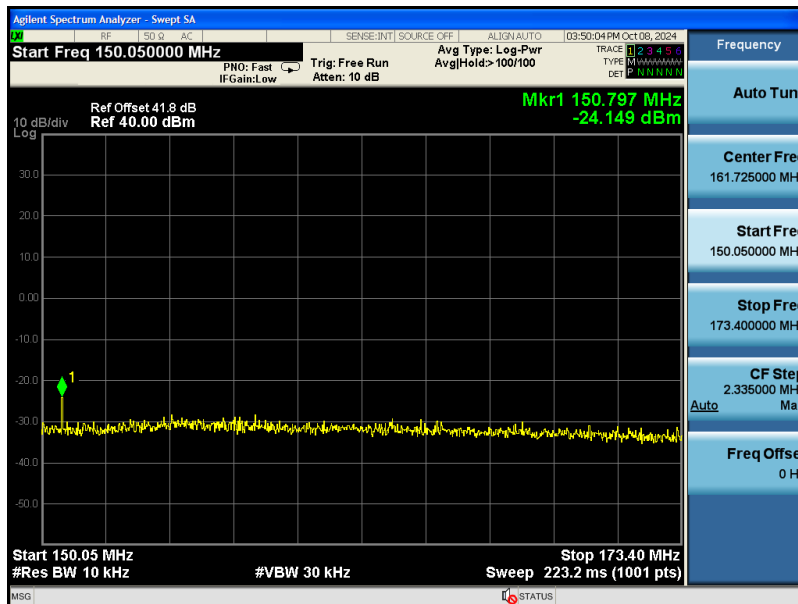
- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
- The ERP of worst noise within the passband is -19.91/10kHz+ 0dBi- 2.15dB= -17.76dBm, the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed -43dBm in 10kHz measurement bandwidth.
- The ERP of worst noise outside of the passband is -28.53/10kHz+ 0dBi- 2.15dB= -26.38dBm, 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.

Noise within the passband

DL

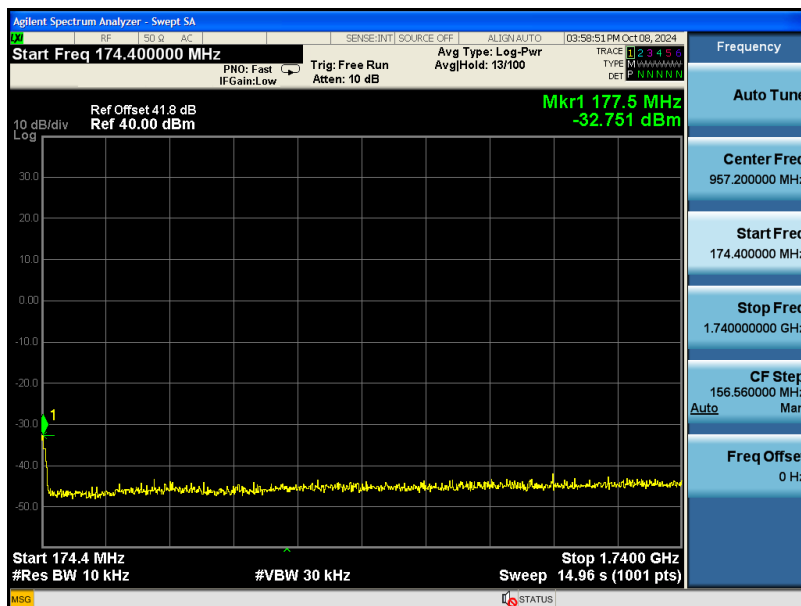


UL



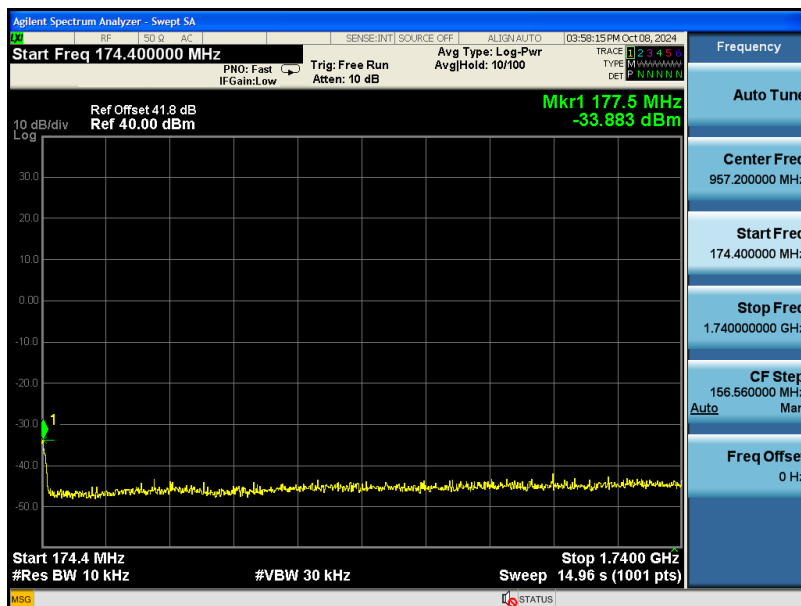
Noise outside the passband

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	1.4	0.009	PASS
			TN	VH	2.1	0.013	PASS
	DMR	MCH	TN	VL	2.5	0.015	PASS
			TN	VH	3.7	0.023	PASS
	C4FM	MCH	TN	VL	3.6	0.022	PASS
			TN	VH	3.3	0.020	PASS
	H-DQPSK	MCH	TN	VL	2.3	0.014	PASS
			TN	VH	2.1	0.013	PASS
	TETRA	MCH	TN	VL	1.4	0.009	PASS
			TN	VH	3.5	0.022	PASS
UL	FM	MCH	TN	VL	2.1	0.013	PASS
			TN	VH	1.3	0.008	PASS
	DMR	MCH	TN	VL	3.4	0.021	PASS
			TN	VH	3.6	0.022	PASS
	C4FM	MCH	TN	VL	2.7	0.017	PASS
			TN	VH	3.3	0.020	PASS
	H-DQPSK	MCH	TN	VL	2.3	0.014	PASS
			TN	VH	2.9	0.018	PASS
	TETRA	MCH	TN	VL	3.1	0.019	PASS
			TN	VH	3.1	0.019	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	2.7	0.017	PASS
			VN	+40	1.9	0.012	PASS
			VN	+30	2.7	0.017	PASS
			VN	+20	3.2	0.020	PASS
			VN	+10	4.2	0.026	PASS
			VN	0	3.1	0.019	PASS
			VN	-10	3.8	0.023	PASS
			VN	-20	2.4	0.015	PASS
			VN	-30	4.8	0.030	PASS
	DMR	MCH	VN	+50	2.2	0.014	PASS
			VN	+40	3.9	0.024	PASS
			VN	+30	4.2	0.026	PASS
			VN	+20	4.0	0.025	PASS
			VN	+10	2.9	0.018	PASS
			VN	0	3.0	0.019	PASS
			VN	-10	4.6	0.028	PASS
			VN	-20	1.4	0.009	PASS
			VN	-30	2.3	0.014	PASS
	C4FM	MCH	VN	+50	3.6	0.022	PASS
			VN	+40	4.5	0.028	PASS
			VN	+30	3.7	0.023	PASS
			VN	+20	3.3	0.020	PASS
			VN	+10	2.7	0.017	PASS
			VN	0	3.8	0.023	PASS
			VN	-10	4.8	0.030	PASS
			VN	-20	3.9	0.024	PASS
			VN	-30	2.8	0.017	PASS

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	2.7	0.017	PASS
			VN	+40	4.5	0.028	PASS
			VN	+30	1.6	0.010	PASS
			VN	+20	3.1	0.019	PASS
			VN	+10	1.8	0.011	PASS
			VN	0	4.1	0.025	PASS
			VN	-10	1.2	0.007	PASS
			VN	-20	1.6	0.010	PASS
			VN	-30	4.4	0.027	PASS
	TRTRA	MCH	VN	+50	2.5	0.015	PASS
			VN	+40	4.1	0.025	PASS
			VN	+30	3.3	0.020	PASS
			VN	+20	3.4	0.021	PASS
			VN	+10	2.4	0.015	PASS
			VN	0	4.0	0.025	PASS
			VN	-10	1.7	0.011	PASS
			VN	-20	2.4	0.015	PASS
			VN	-30	3.5	0.022	PASS
UL	FM	MCH	VN	+50	3.3	0.020	PASS
			VN	+40	3.9	0.024	PASS
			VN	+30	2.9	0.018	PASS
			VN	+20	2.9	0.018	PASS
			VN	+10	1.6	0.010	PASS
			VN	0	3.8	0.023	PASS
			VN	-10	2.5	0.015	PASS
			VN	-20	2.9	0.018	PASS
			VN	-30	4.2	0.026	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	0.022	PASS
			VN	+40	2.4	0.015	PASS
			VN	+30	2.5	0.015	PASS
			VN	+20	1.7	0.011	PASS
			VN	+10	4.0	0.025	PASS
			VN	0	2.1	0.013	PASS
			VN	-10	1.9	0.012	PASS
			VN	-20	1.3	0.008	PASS
			VN	-30	2.4	0.015	PASS
	C4FM	MCH	VN	+50	1.8	0.011	PASS
			VN	+40	2.4	0.015	PASS
			VN	+30	1.3	0.008	PASS
			VN	+20	3.0	0.019	PASS
			VN	+10	4.2	0.026	PASS
			VN	0	4.1	0.025	PASS
			VN	-10	1.8	0.011	PASS
			VN	-20	1.7	0.011	PASS
			VN	-30	1.5	0.009	PASS
	D-HQPSK	MCH	VN	+50	2.8	0.017	PASS
			VN	+40	4.0	0.025	PASS
			VN	+30	2.4	0.015	PASS
			VN	+20	2.0	0.012	PASS
			VN	+10	2.0	0.012	PASS
			VN	0	1.6	0.010	PASS
			VN	-10	4.2	0.026	PASS
			VN	-20	4.4	0.027	PASS
			VN	-30	2.9	0.018	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	2.5	0.015	PASS
			VN	+40	1.2	0.007	PASS
			VN	+30	1.8	0.011	PASS
			VN	+20	3.6	0.022	PASS
			VN	+10	4.3	0.027	PASS
			VN	0	1.4	0.009	PASS
			VN	-10	2.3	0.014	PASS
			VN	-20	4.3	0.027	PASS
			VN	-30	3.7	0.023	PASS



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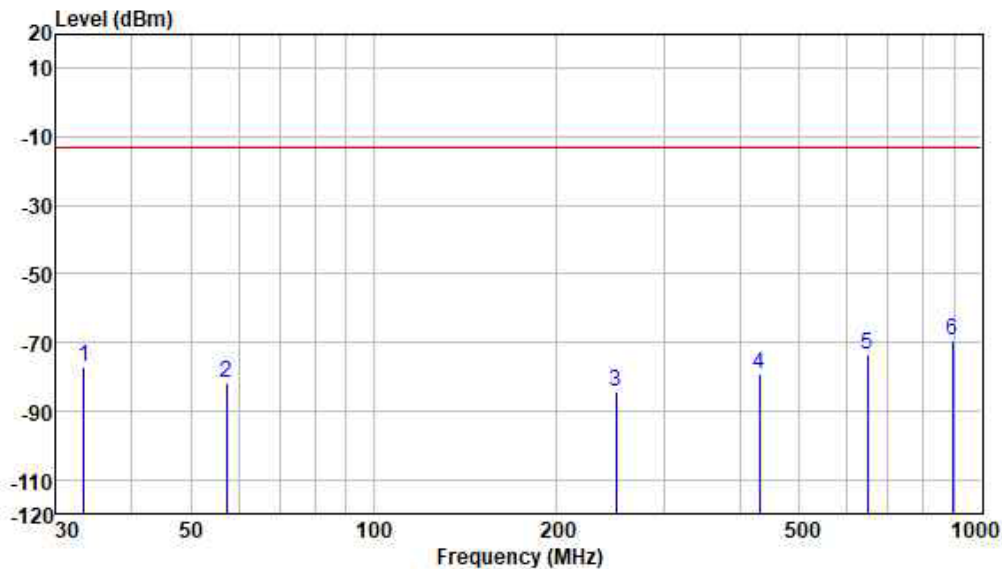
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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10 Radiated Spurious emissions

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	33.33	-80.10	3.04	-77.06	-13.00	-64.06	HORIZONTAL
2	57.19	-79.50	-2.28	-81.78	-13.00	-68.78	HORIZONTAL
3	250.30	-79.21	-5.40	-84.61	-13.00	-71.61	HORIZONTAL
4	431.03	-79.33	0.20	-79.13	-13.00	-66.13	HORIZONTAL
5	647.39	-77.03	3.77	-73.26	-13.00	-60.26	HORIZONTAL
6	893.86	-78.69	9.15	-69.54	-13.00	-56.54	HORIZONTAL

Remark:

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

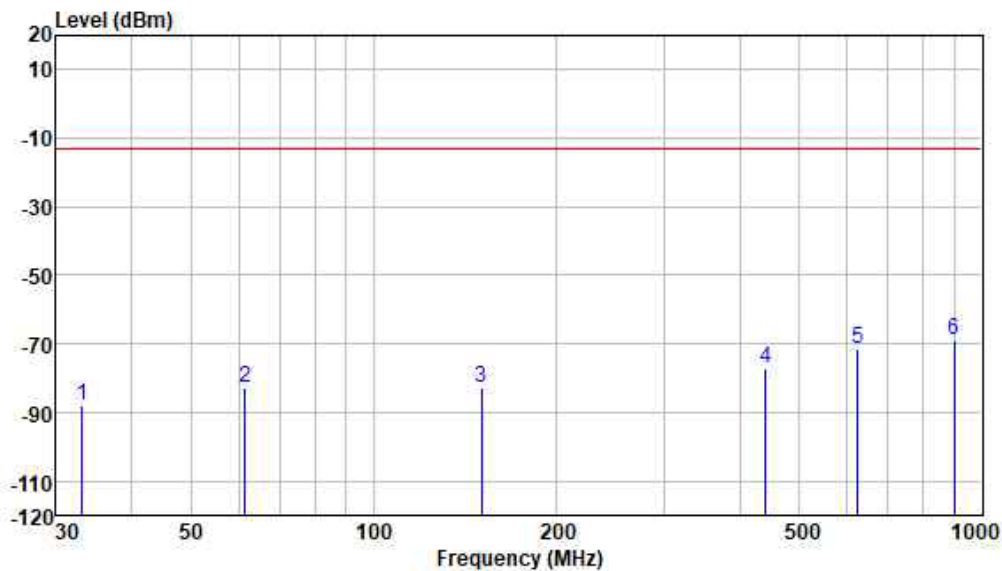


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read	Correction		Limit	Over	
	MHz	Level	Factor	Level	Line	Limit	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	33.09	-80.47	-7.26	-87.73	-13.00	-74.73	VERTICAL
2	61.35	-80.29	-2.67	-82.96	-13.00	-69.96	VERTICAL
3	150.01	-79.10	-3.94	-83.04	-13.00	-70.04	VERTICAL
4	440.20	-78.53	1.37	-77.16	-13.00	-64.16	VERTICAL
5	625.08	-76.00	4.45	-71.55	-13.00	-58.55	VERTICAL
6	900.15	-79.27	10.65	-68.62	-13.00	-55.62	VERTICAL

Remark:

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

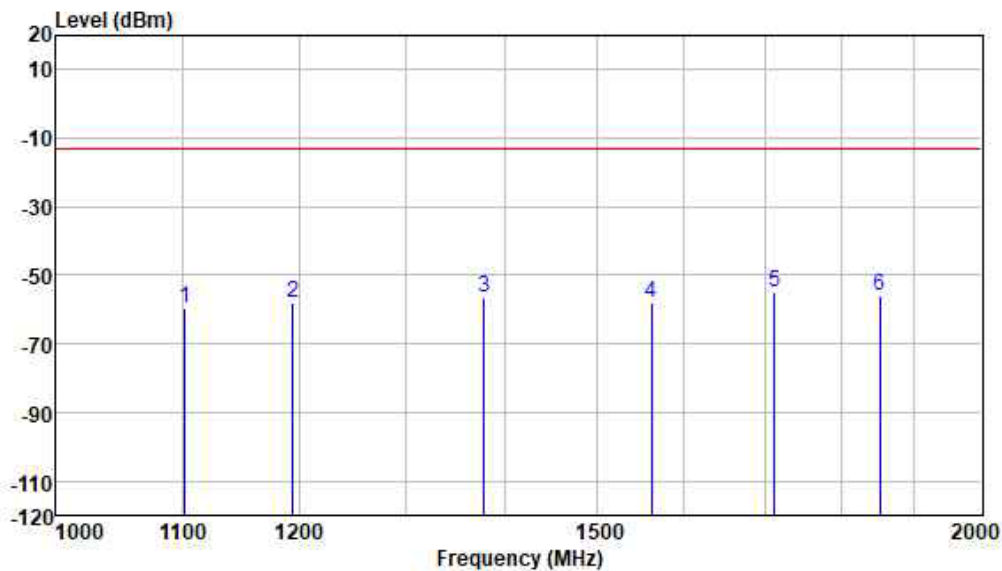


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Radiated Spurious emissions

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	1101.38	-60.99	1.67	-59.32	-13.00	-46.32	HORIZONTAL
2	1193.68	-60.77	2.85	-57.92	-13.00	-44.92	HORIZONTAL
3	1377.51	-60.92	4.49	-56.43	-13.00	-43.43	HORIZONTAL
4	1561.76	-63.03	5.04	-57.99	-13.00	-44.99	HORIZONTAL
5	1711.81	-61.26	6.34	-54.92	-13.00	-41.92	HORIZONTAL
6	1852.28	-61.86	6.09	-55.77	-13.00	-42.77	HORIZONTAL

Remark:

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

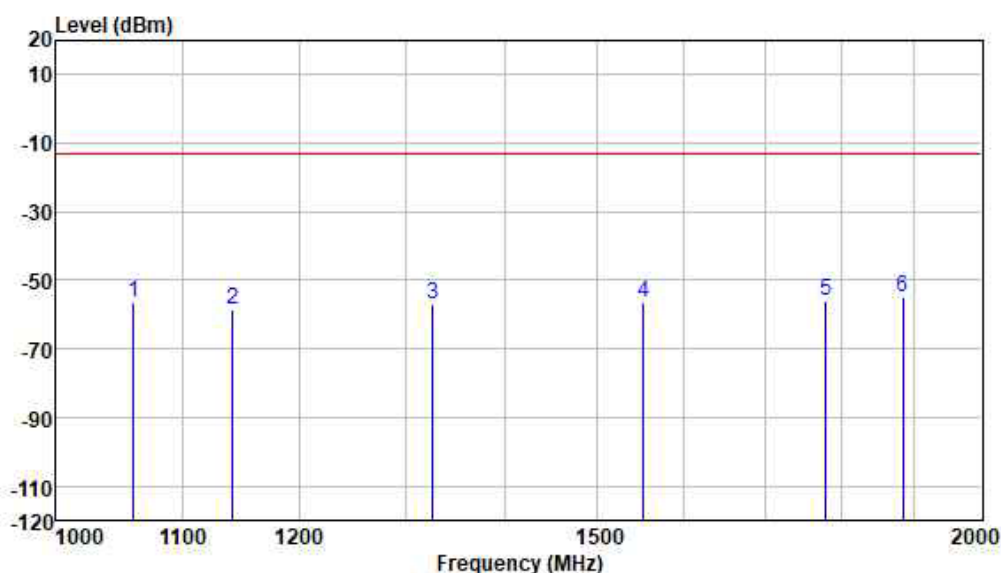


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1059.65	-59.10	2.50	-56.60	-13.00	-43.60	VERTICAL
2	1141.08	-61.91	3.64	-58.27	-13.00	-45.27	VERTICAL
3	1325.32	-61.44	4.21	-57.23	-13.00	-44.23	VERTICAL
4	1551.74	-62.30	5.89	-56.41	-13.00	-43.41	VERTICAL
5	1779.23	-61.62	5.74	-55.88	-13.00	-42.88	VERTICAL
6	1885.36	-61.74	6.78	-54.96	-13.00	-41.96	VERTICAL

Remark:

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

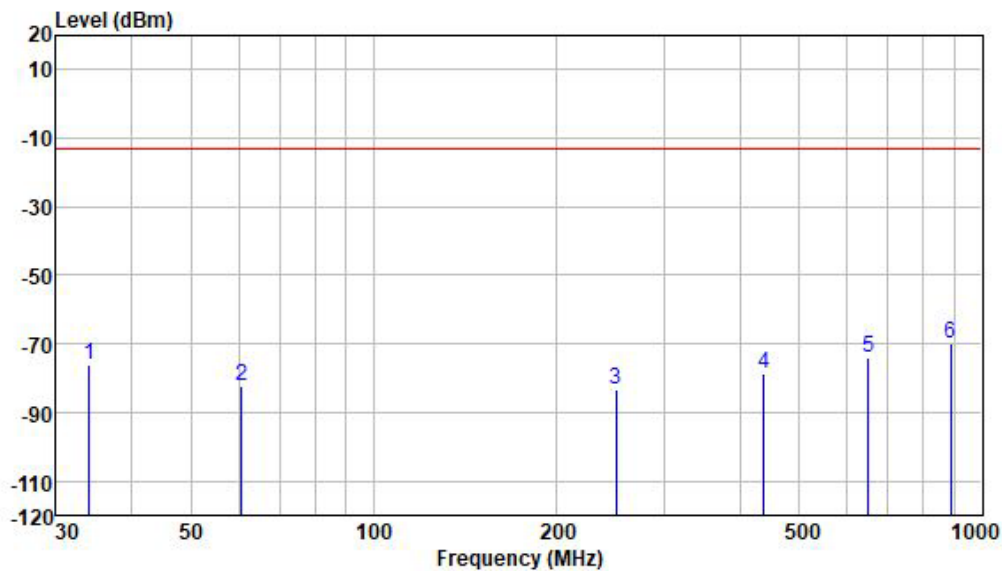


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Radiated Spurious emissions

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	34.04	-78.93	2.95	-75.98	-13.00	-62.98	HORIZONTAL
2	60.49	-79.84	-2.63	-82.47	-13.00	-69.47	HORIZONTAL
3	250.30	-78.10	-5.40	-83.50	-13.00	-70.50	HORIZONTAL
4	437.12	-78.94	0.22	-78.72	-13.00	-65.72	HORIZONTAL
5	649.66	-77.59	3.79	-73.80	-13.00	-60.80	HORIZONTAL
6	887.61	-78.48	8.80	-69.68	-13.00	-56.68	HORIZONTAL

Remark:

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

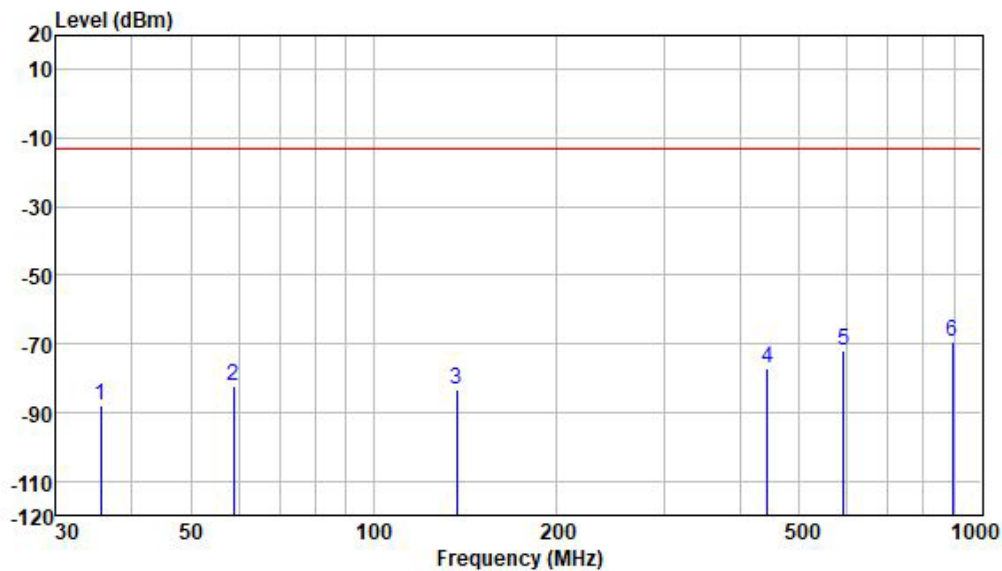


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Radiated Spurious emissions

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	35.50	-79.91	-7.82	-87.73	-13.00	-74.73	VERTICAL
2	58.82	-79.78	-2.44	-82.22	-13.00	-69.22	VERTICAL
3	136.94	-79.26	-3.93	-83.19	-13.00	-70.19	VERTICAL
4	443.29	-78.47	1.41	-77.06	-13.00	-64.06	VERTICAL
5	590.97	-75.74	3.65	-72.09	-13.00	-59.09	VERTICAL
6	893.86	-79.69	10.26	-69.43	-13.00	-56.43	VERTICAL

Remark:

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

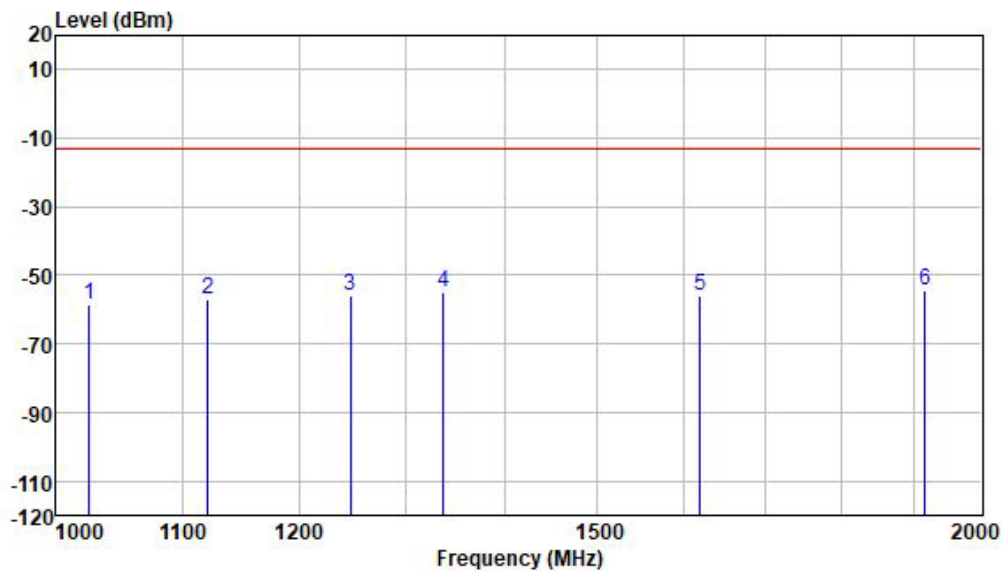


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Radiated Spurious emissions

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	1025.27	-61.73	3.25	-58.48	-13.00	-45.48	HORIZONTAL
2	1120.39	-60.44	3.24	-57.20	-13.00	-44.20	HORIZONTAL
3	1246.60	-59.85	3.92	-55.93	-13.00	-42.93	HORIZONTAL
4	1336.07	-58.85	4.12	-54.73	-13.00	-41.73	HORIZONTAL
5	1620.01	-61.58	5.41	-56.17	-13.00	-43.17	HORIZONTAL
6	1915.87	-61.50	6.89	-54.61	-13.00	-41.61	HORIZONTAL

Remark:

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

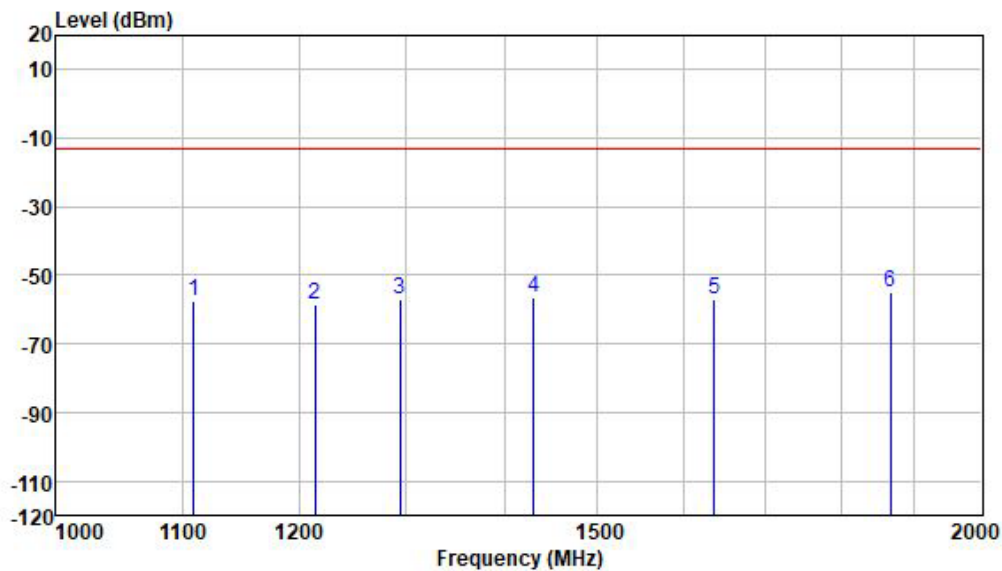


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Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1108.80	-61.64	4.39	-57.25	-13.00	-44.25	VERTICAL
2	1214.20	-61.55	3.25	-58.30	-13.00	-45.30	VERTICAL
3	1293.25	-61.45	4.32	-57.13	-13.00	-44.13	VERTICAL
4	1429.99	-61.10	4.88	-56.22	-13.00	-43.22	VERTICAL
5	1636.94	-62.14	5.09	-57.05	-13.00	-44.05	VERTICAL
6	1867.36	-61.55	6.61	-54.94	-13.00	-41.94	VERTICAL

Remark:

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

--End of Appendix--



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