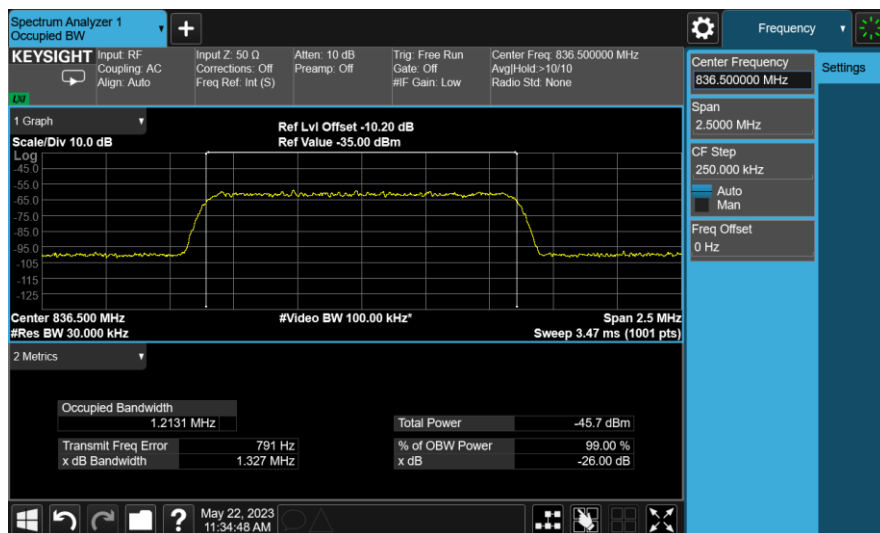


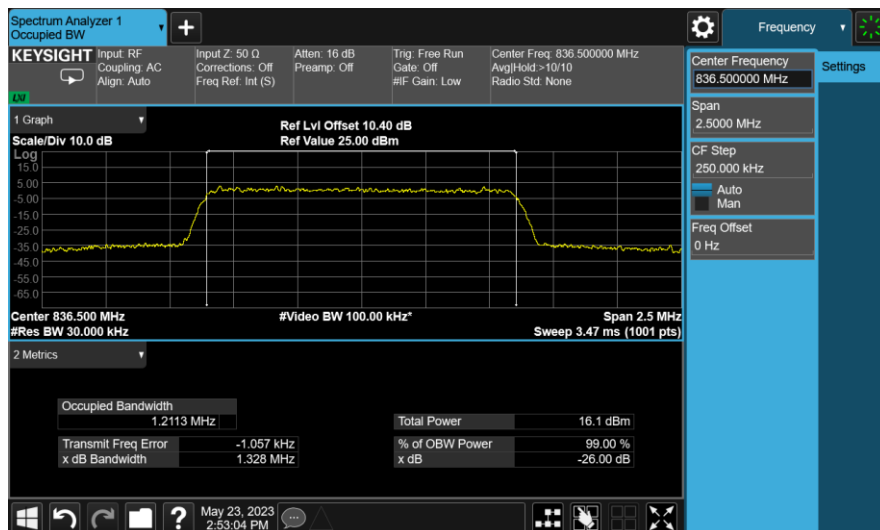
Occupied bandwidth

UL_Cellular Band_1.25MHz AWGN signal type

Input



Output



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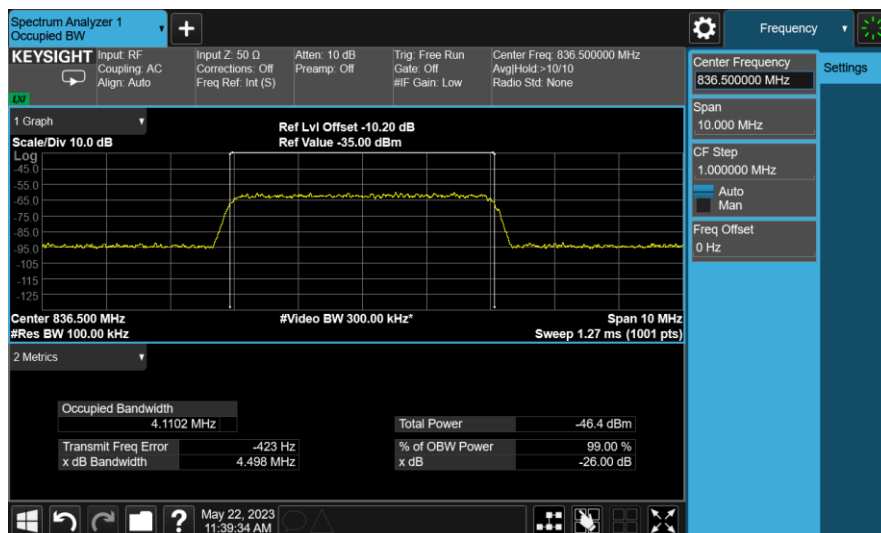
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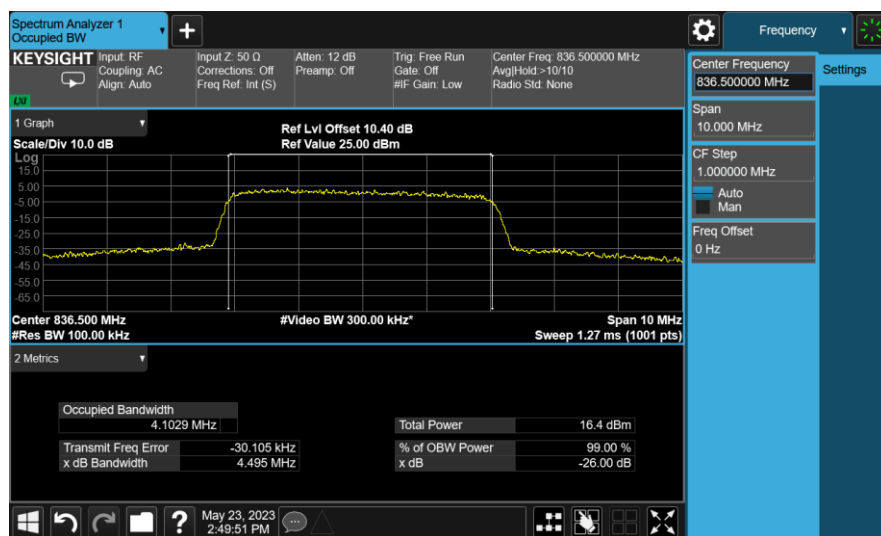
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UL_Cellular Band_4.1MHz AWGN signal type

Input



Output



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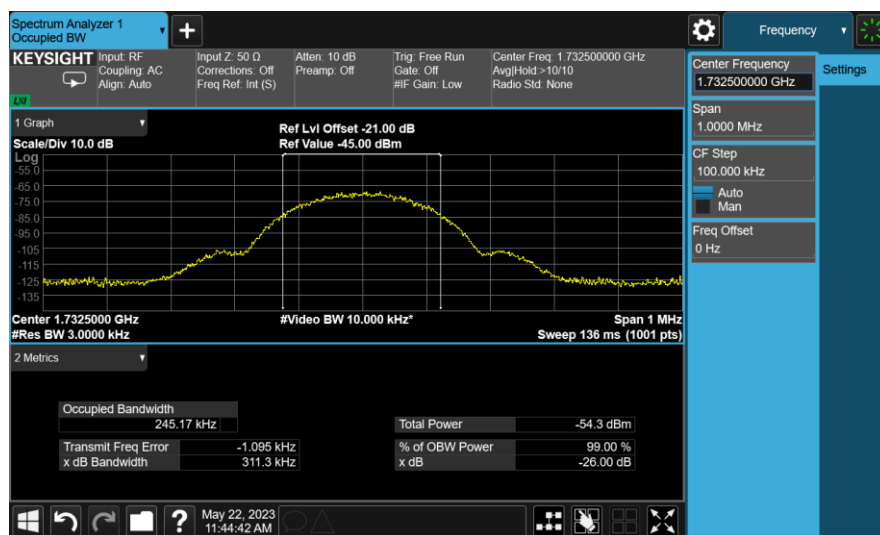
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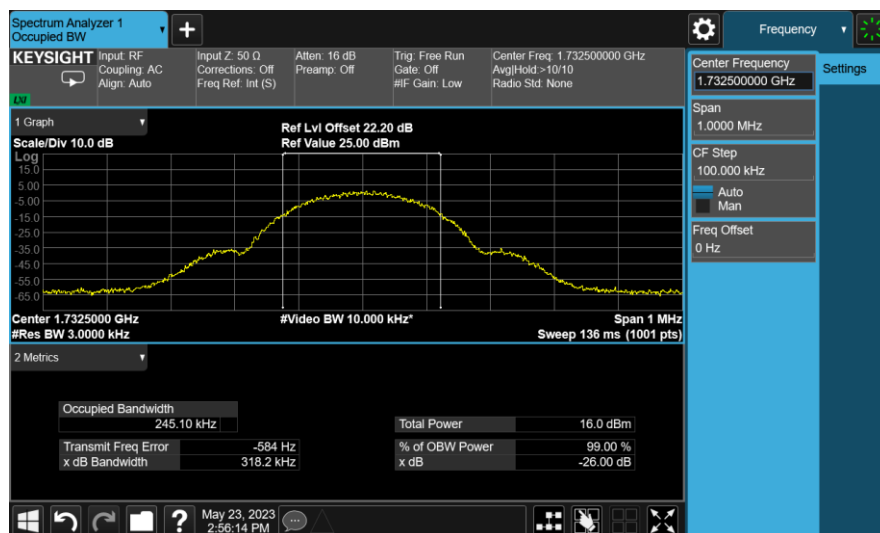
Occupied bandwidth

UL_AWS-1 Band_GSM signal type

Input



Output

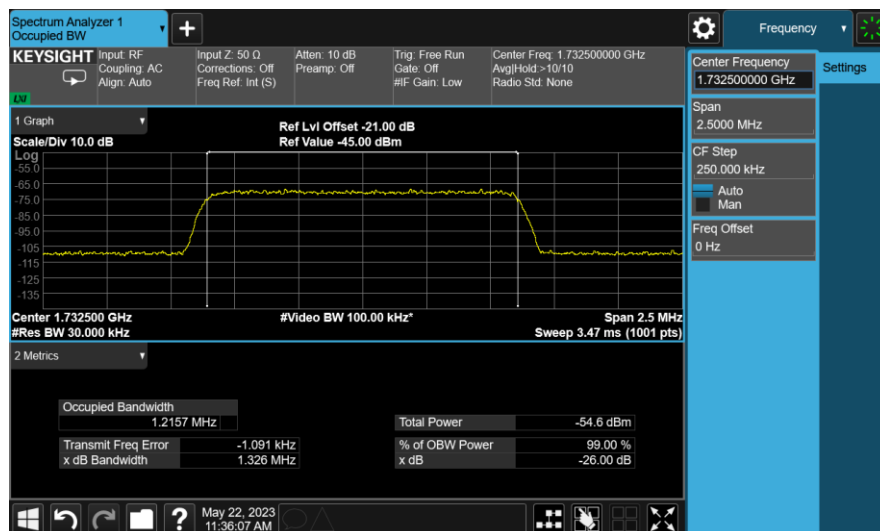


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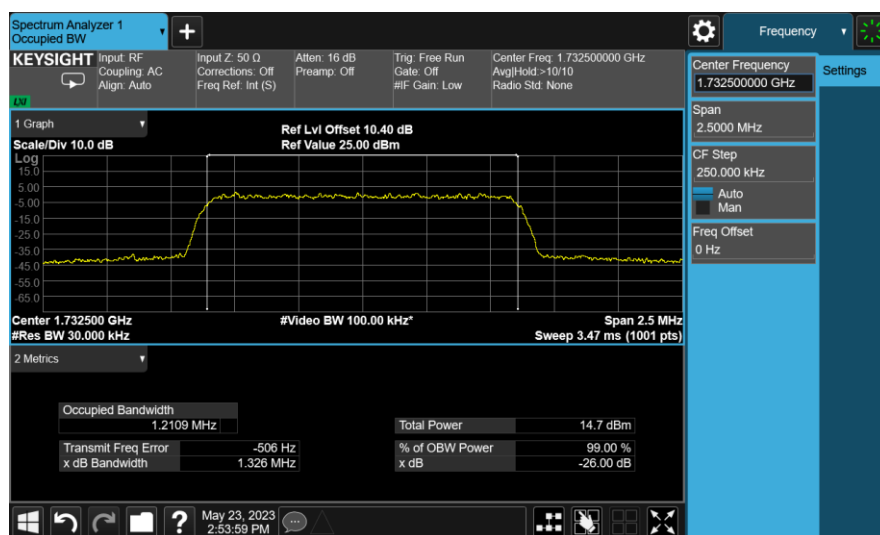
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UL_AWS-1 Band_1.25MHz AWGN signal type

Input



Output



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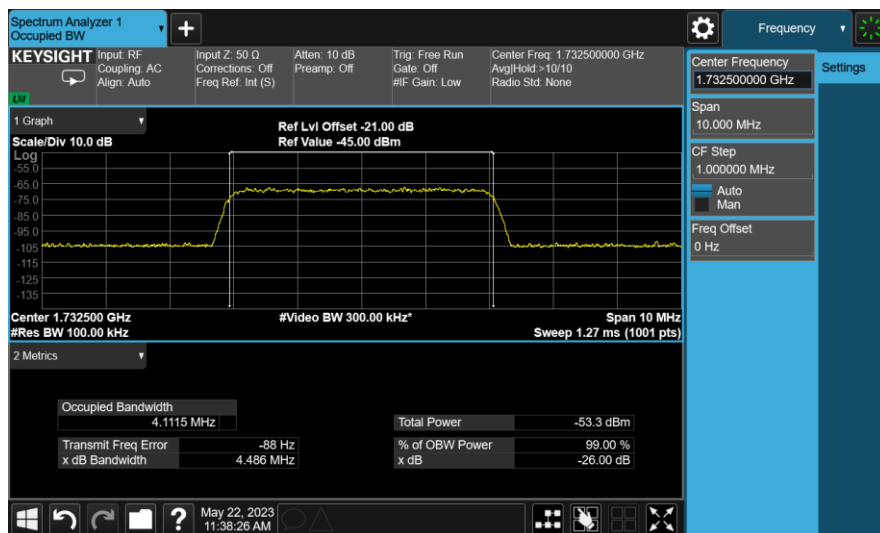
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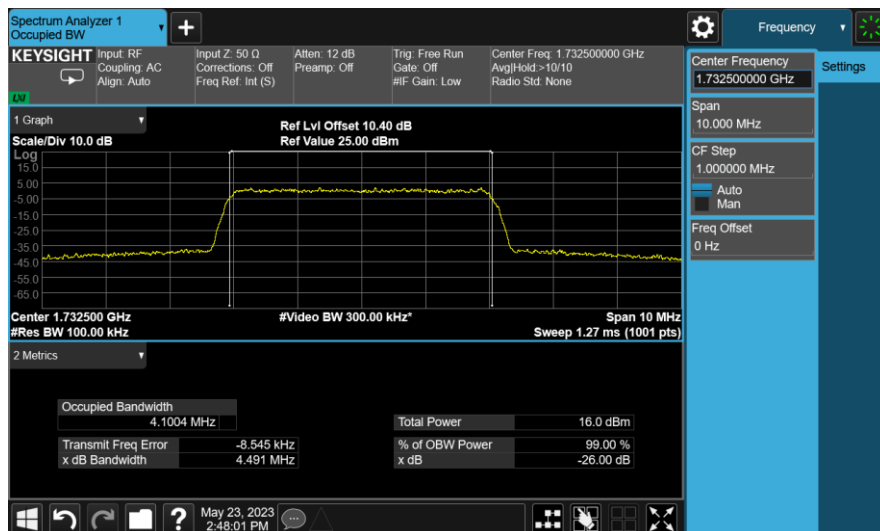
Occupied bandwidth

UL_AWS-1 Band_4.1MHz AWGN signal type

Input



Output



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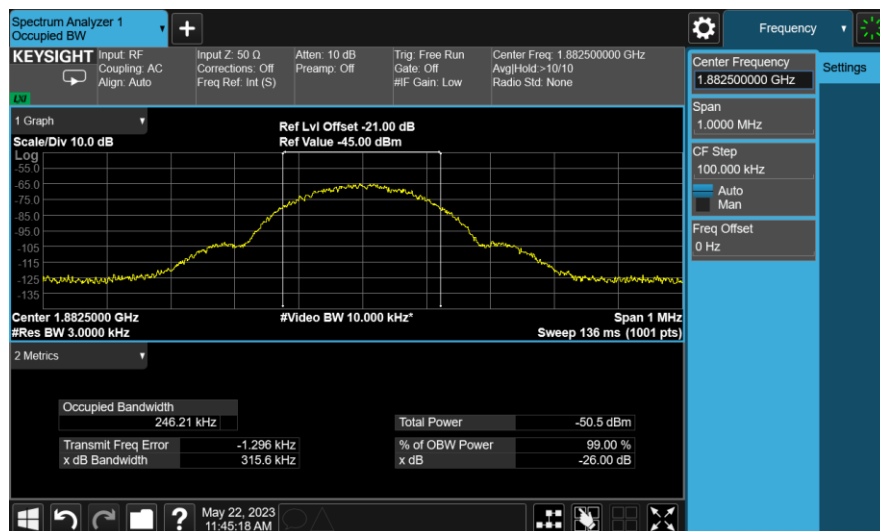
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UL_Broadband Band_GSM signal type

Input



Output



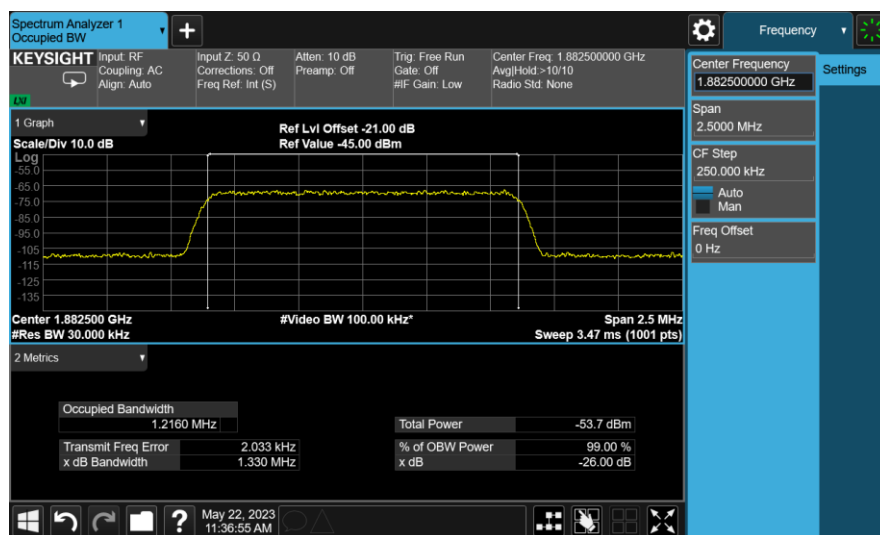
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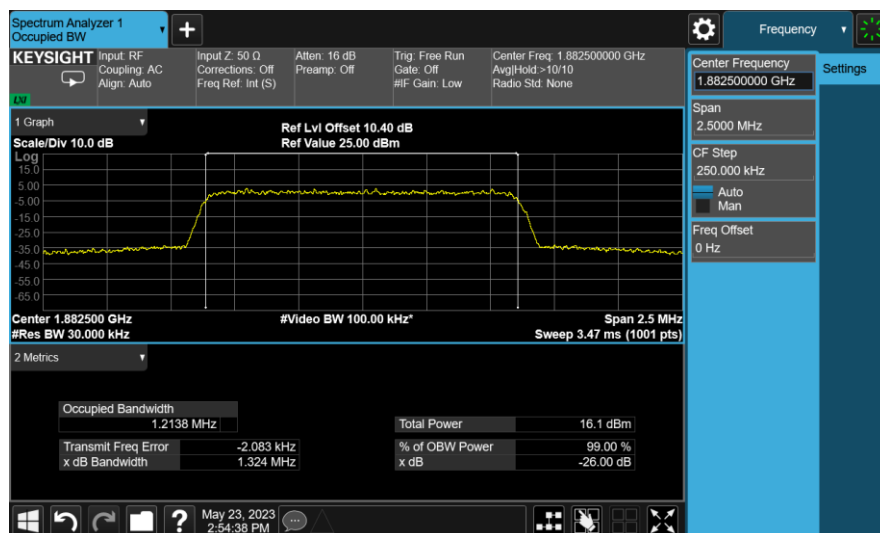
Occupied bandwidth

UL_Broadband Band_1.25MHz AWGN signal type

Input



Output

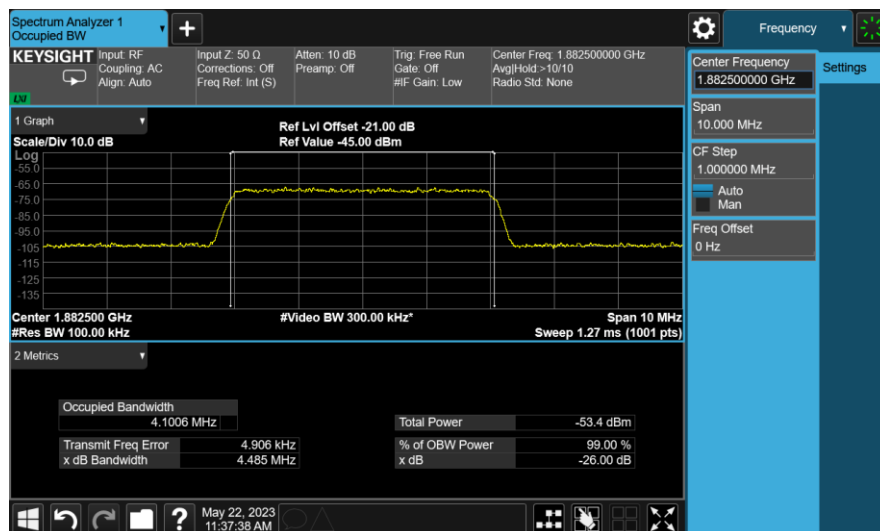


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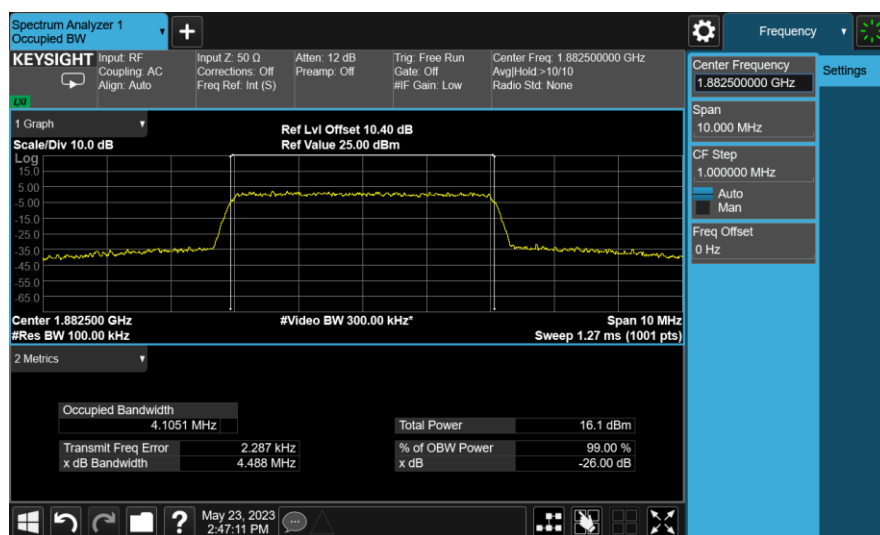
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UL_Broadband Band 4.1MHz AWGN signal type

Input



Output



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11 Oscillation detection

Oscillation Restart Tests									
Path	Band	Detection Time (s)	Limit (s)	Oscillation Level (dBm)	Restart Time (s)	Limit (s)	Number of Restart	Limit	Verdict
DL	700MHz	0.19	≤1	3.67	60.34	≥60	2	≤5	PASS
	Cellular	0.23		7.26	60.97		2		PASS
	AWS-1	0.12		15.16	61.39		2		PASS
	Broadband PCS	0.26		16.77	62.70		2		PASS
UL	Lower 700MHz	0.28	≤0.3	5.54	60.48	≥60	2	≤5	PASS
	Upper 700MHz	0.21		6.27	62.72		2		PASS
	Cellular	0.08		9.54	60.97		2		PASS
	AWS-1	0.27		18.56	61.39		2		PASS
	Broadband PCS	0.21		15.62	61.25		2		PASS



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
DL	700MHz	67.6	6.32	1.66	4.66	≤12	PASS	
		66.6	9.36	2.53	6.83		PASS	
		65.6	13.46	5.83	7.63		PASS	
		64.6	17.38	9.37	8.01		PASS	
		63.6	(shutdown)				PASS	
		62.6					PASS	
		61.6					PASS	
		60.6					PASS	
		59.6					PASS	
		58.6					PASS	
		57.6					PASS	
		Cellular					68.2	6.73
	67.2		14.38	6.27	8.11	PASS		
	66.2		18.23	11.63	6.60	PASS		
	65.2		(shutdown)				PASS	
	64.2						PASS	
	63.2						PASS	
	62.2						PASS	
	61.2						PASS	
	60.2						PASS	
	59.2						PASS	
	58.2	PASS						



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
DL	AWS-1	75.3	11.53	6.87	4.66	≤12	PASS	
		74.3	18.93	10.93	8.00		PASS	
		73.3	23.45	15.35	8.10		PASS	
		72.3	(shutdown)				PASS	
		71.3					PASS	
		70.3					PASS	
		69.3					PASS	
		68.3					PASS	
		67.3					PASS	
		66.3					PASS	
		65.3					PASS	
		Broadband PCS	74.5	15.28	10.36		4.92	≤12
	73.5		19.38	14.38	5.00	PASS		
	72.5		23.75	11.34	12.41	PASS		
	71.5		26.38	17.37	9.01	PASS		
	70.5		(shutdown)				PASS	
	69.5						PASS	
	68.5						PASS	
	67.5						PASS	
	66.5						PASS	
	65.5						PASS	
	64.5	PASS						



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Oscillation Mitigation or Shutdown							
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)		
UL	Lower 700MHz	67.2	9.28	3.46	5.82	≤12	PASS
		66.2	16.35	13.62	2.73		PASS
		65.2	(shutdown)				PASS
		64.2					PASS
		63.2					PASS
		62.2					PASS
		61.2					PASS
		60.2					PASS
		59.2					PASS
		58.2					PASS
		57.2					PASS
	Upper 700MHz	67.2	5.98	1.23	4.75	≤12	PASS
		66.2	11.35	6.36	4.99		PASS
		65.2	17.95	13.46	4.49		PASS
		64.2	24.37	19.83	4.54		PASS
		63.2	(shutdown)				PASS
		62.2					PASS
		61.2					PASS
		60.2					PASS
		59.2					PASS
		58.2					PASS
		57.2					PASS



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
UL	Cellular	68.8	12.36	5.28	7.08	≤12	PASS	
		67.8	18.93	13.26	5.67		PASS	
		66.8	26.00	19.43	6.57		PASS	
		65.8	(shutdown)				PASS	
		64.8					PASS	
		63.8					PASS	
		62.8					PASS	
		61.8					PASS	
		60.8					PASS	
		59.8					PASS	
		58.8					PASS	
		AWS-1	75.8	14.34	9.45		4.89	≤12
	74.8		23.74	18.88	4.86	PASS		
	73.8		28.93	22.36	6.57	PASS		
	72.8		(shutdown)				PASS	
	71.8						PASS	
	70.8						PASS	
	69.8						PASS	
	68.8						PASS	
	67.8						PASS	
	66.8						PASS	
	65.8	PASS						



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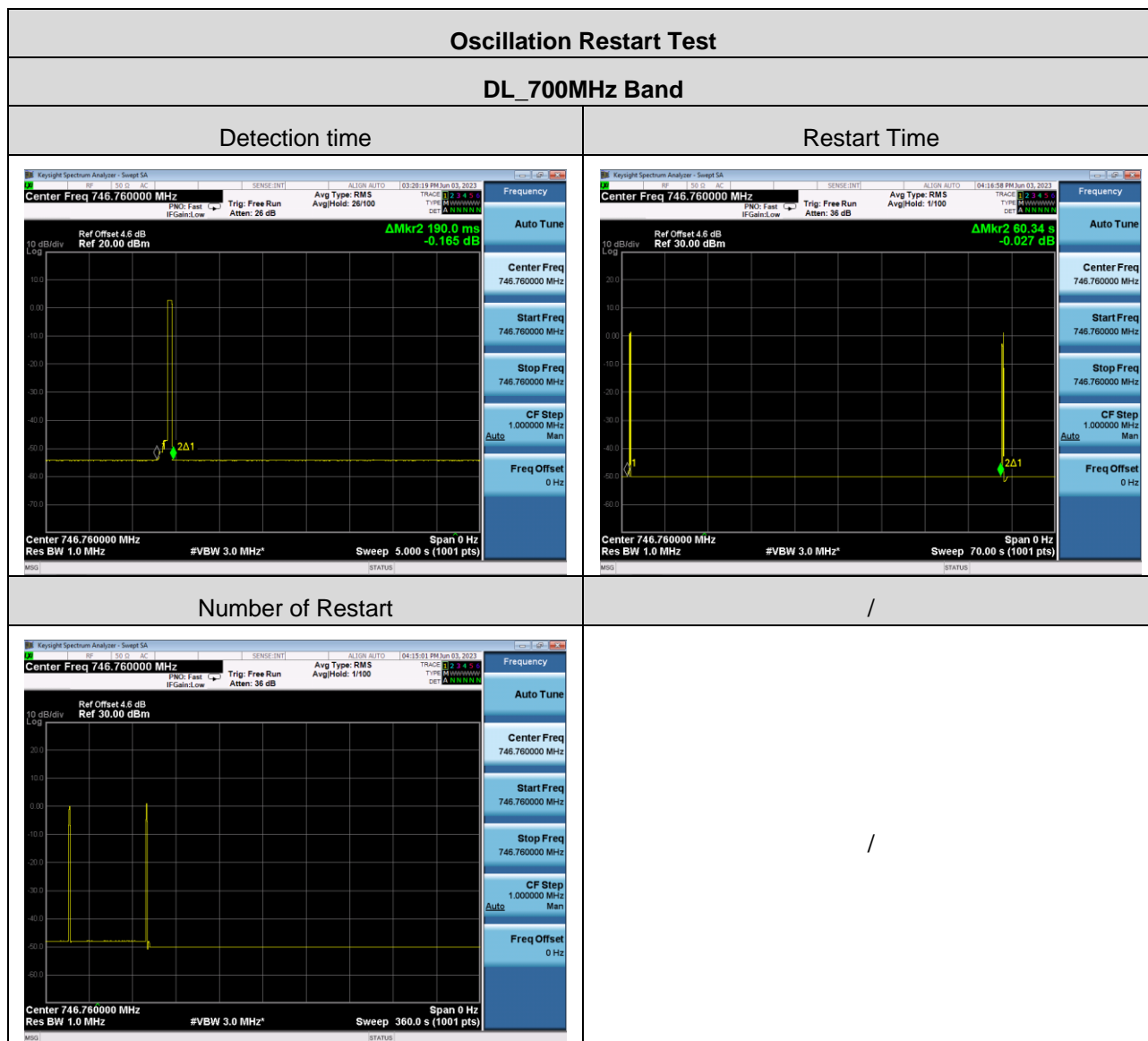
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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
UL	Broadband PCS	76.4	11.35	6.46	4.89	≤12	PASS	
		75.4	16.83	11.26	5.57		PASS	
		74.4	21.46	17.64	3.82		PASS	
		73.4	27.48	19.03	8.45		PASS	
		72.4	(shutdown)				PASS	
		71.4					PASS	
		70.4					PASS	
		69.4					PASS	
		68.4					PASS	
		67.4					PASS	
		66.4					PASS	



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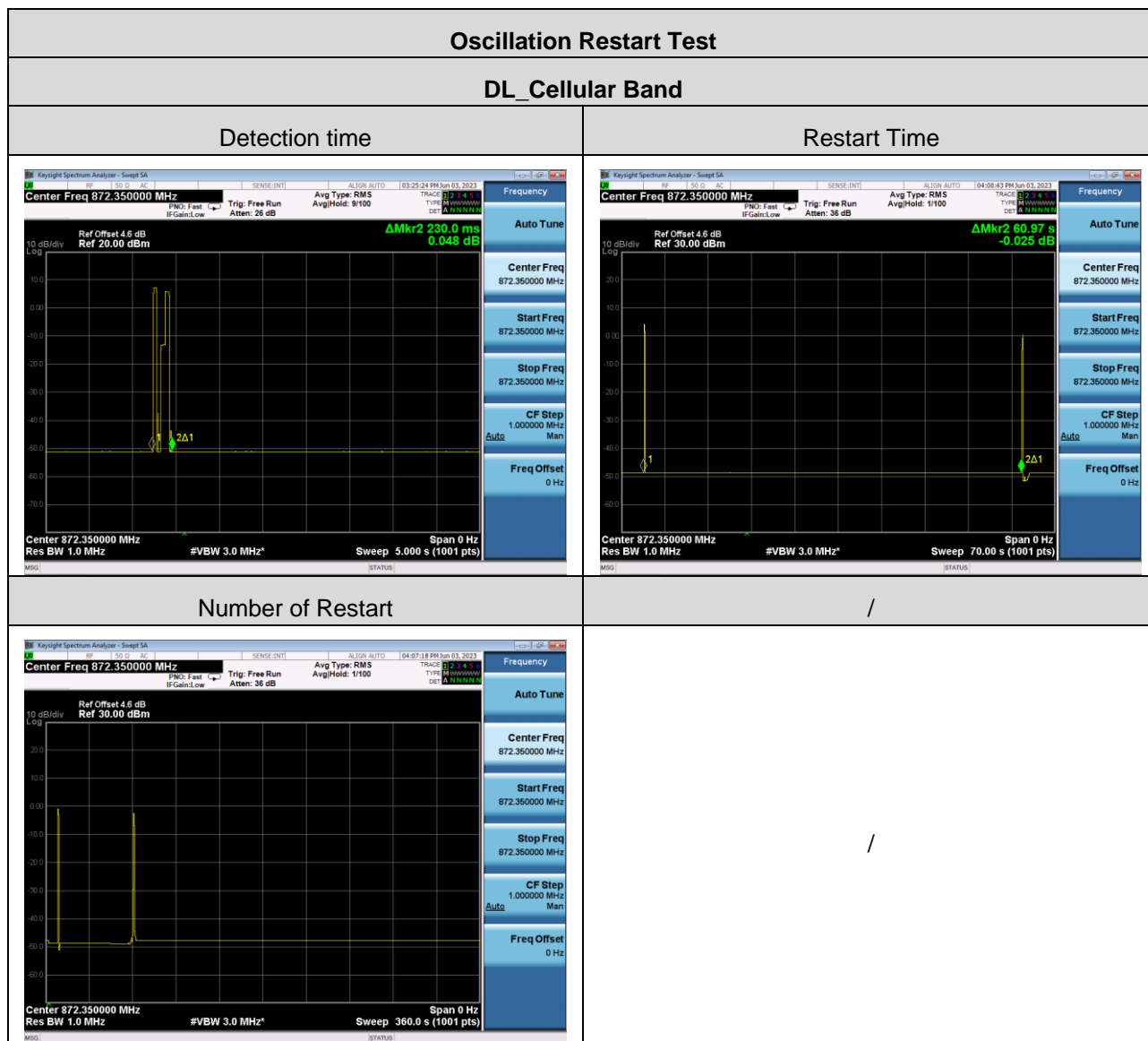


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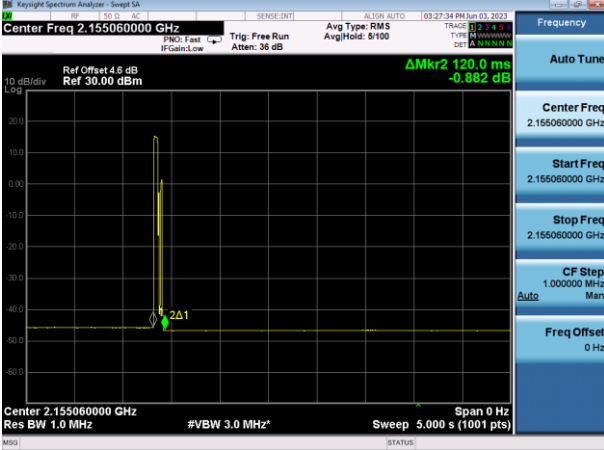

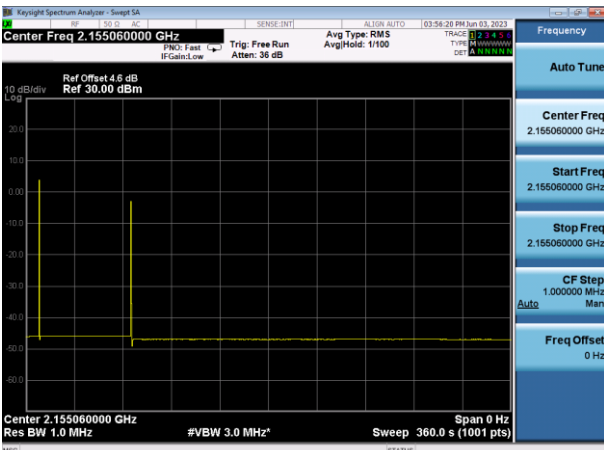
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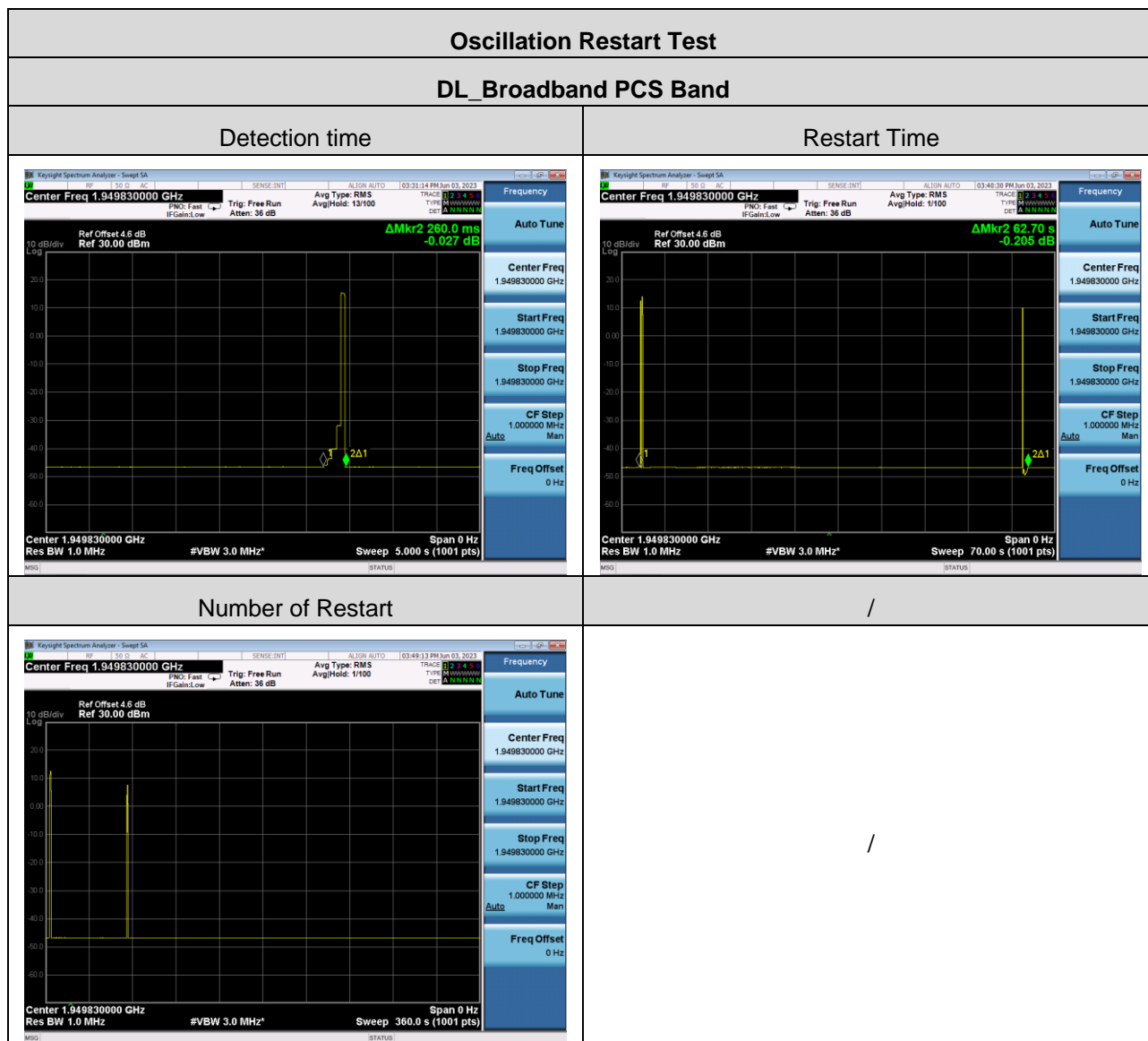


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Oscillation Restart Test	
DL_AWS-1 Band	
Detection time	Restart Time
	
Number of Restart	/
	/



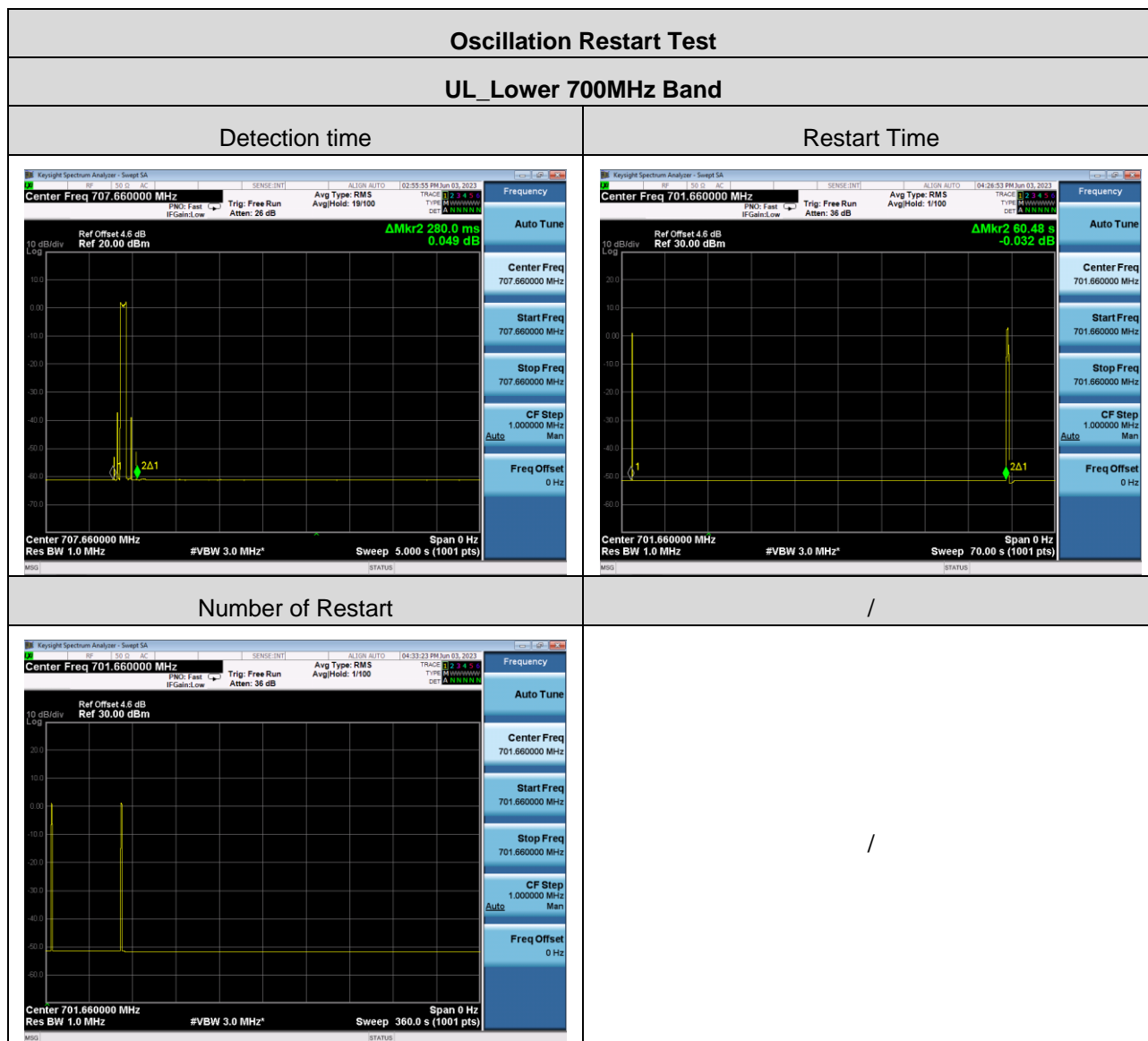


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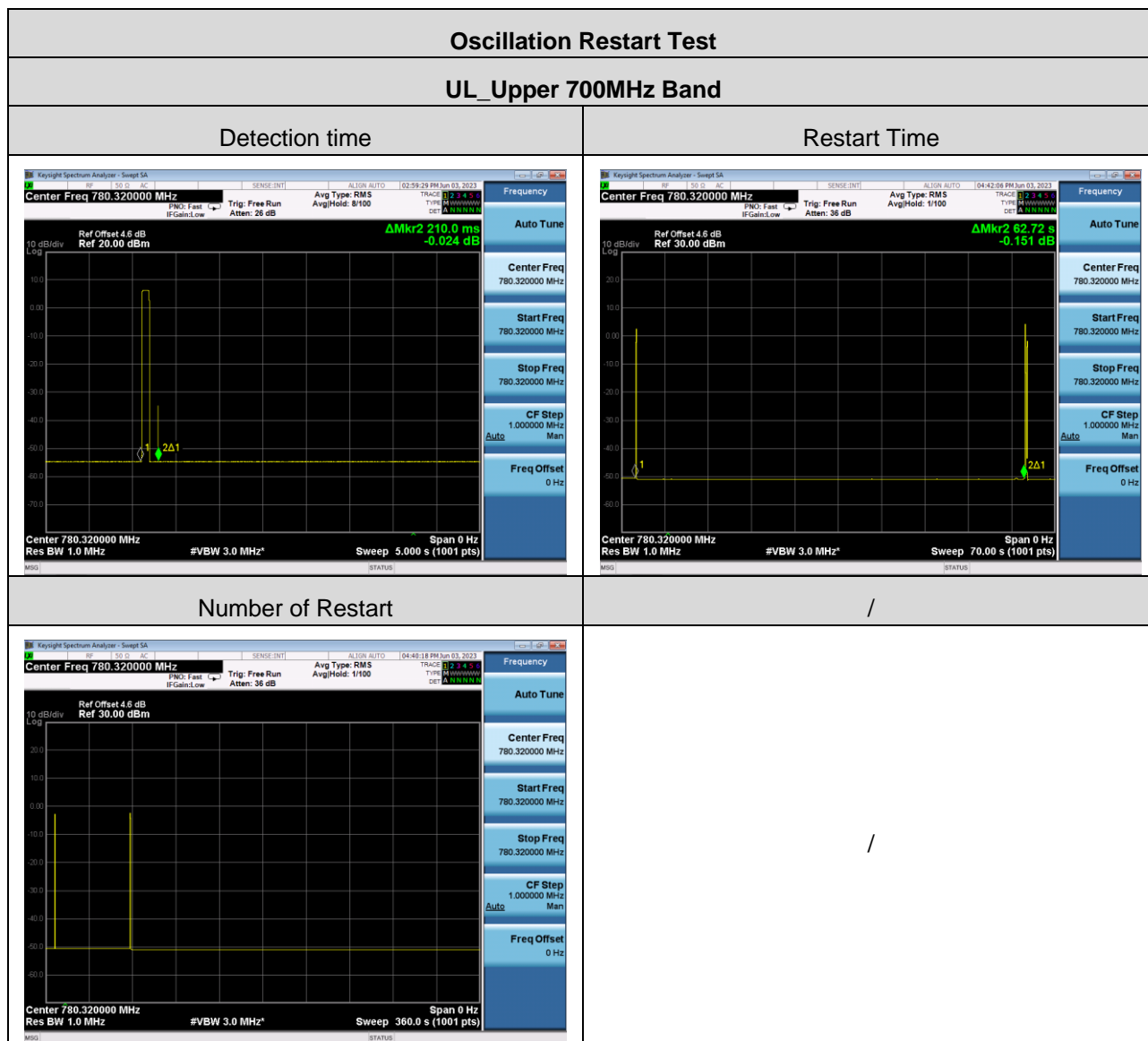


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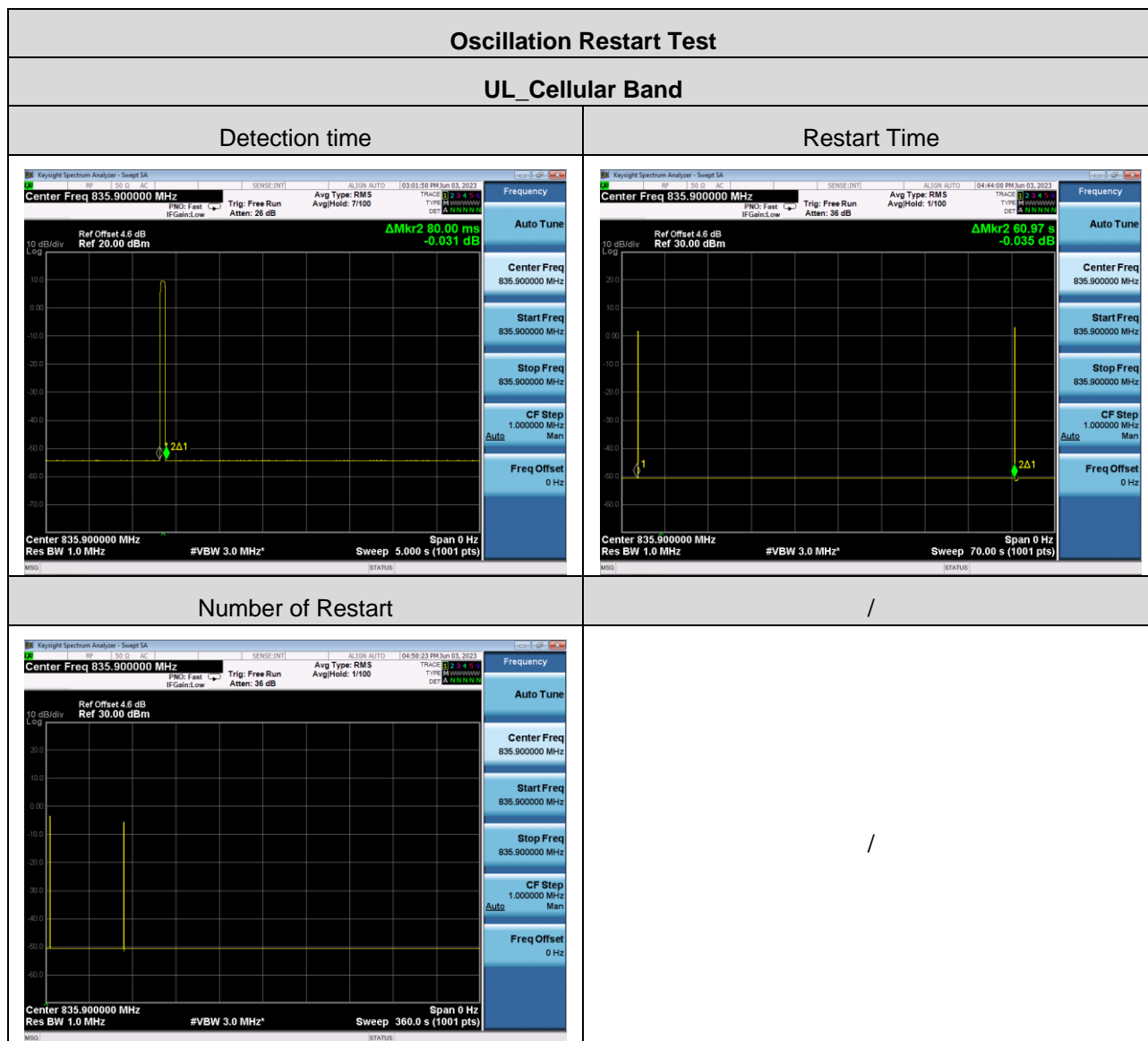


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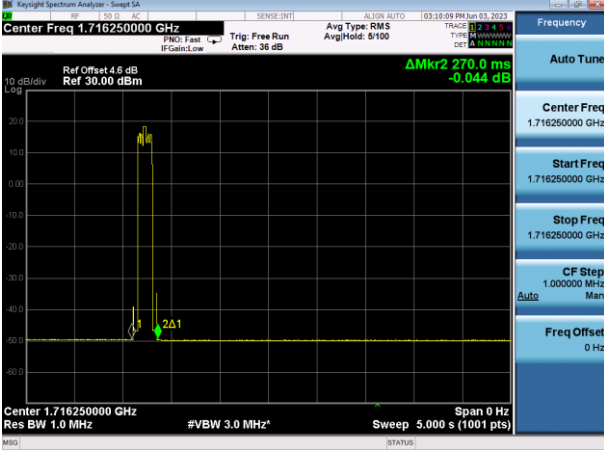

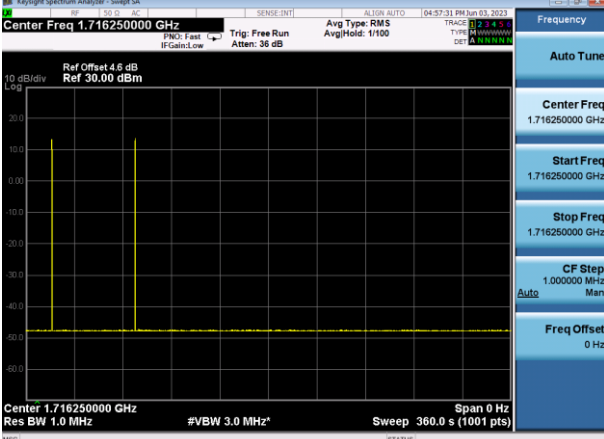
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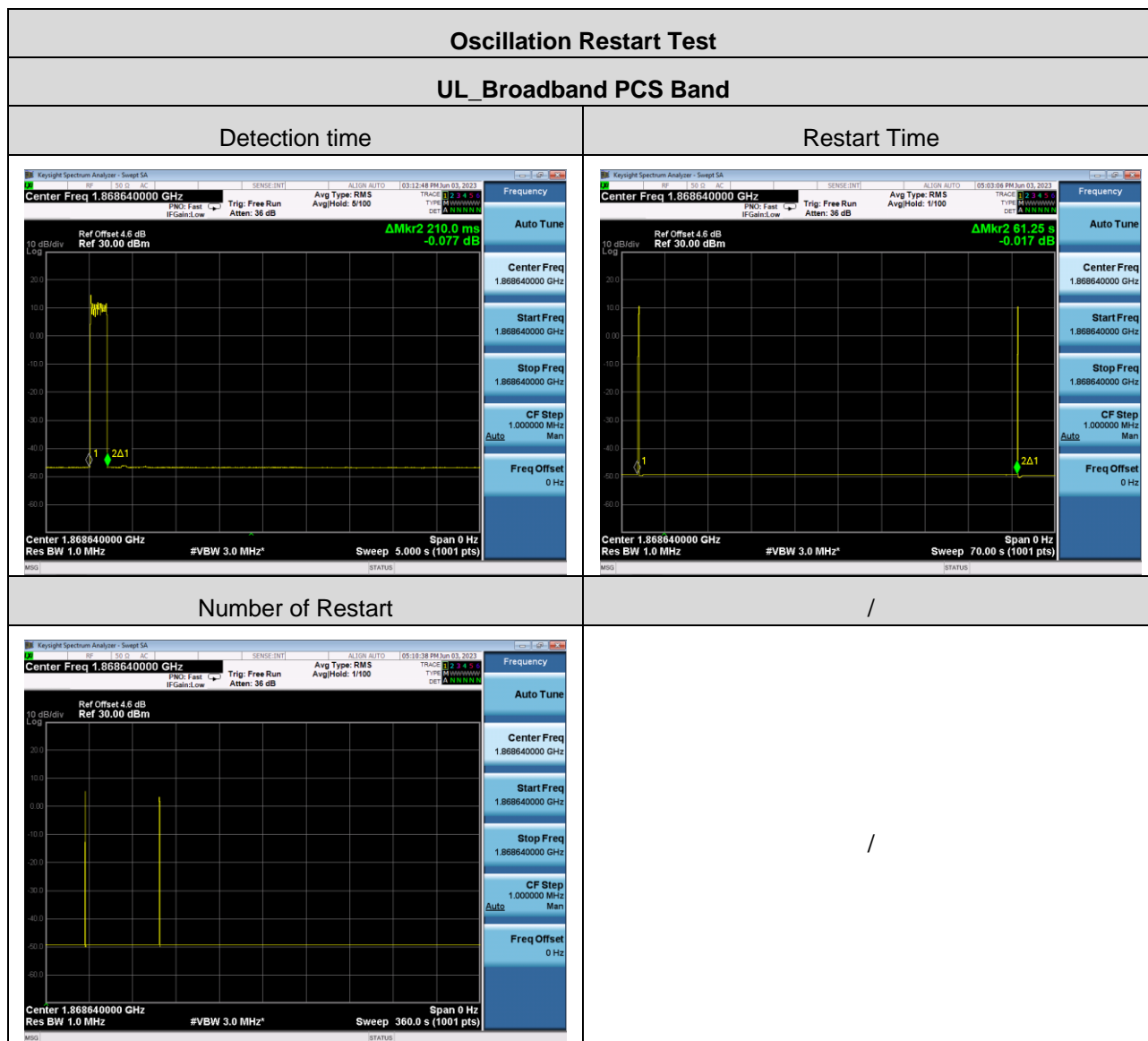
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Oscillation Restart Test	
UL_AWS-1 Band	
Detection time	Restart Time
	
Number of Restart	/
	/



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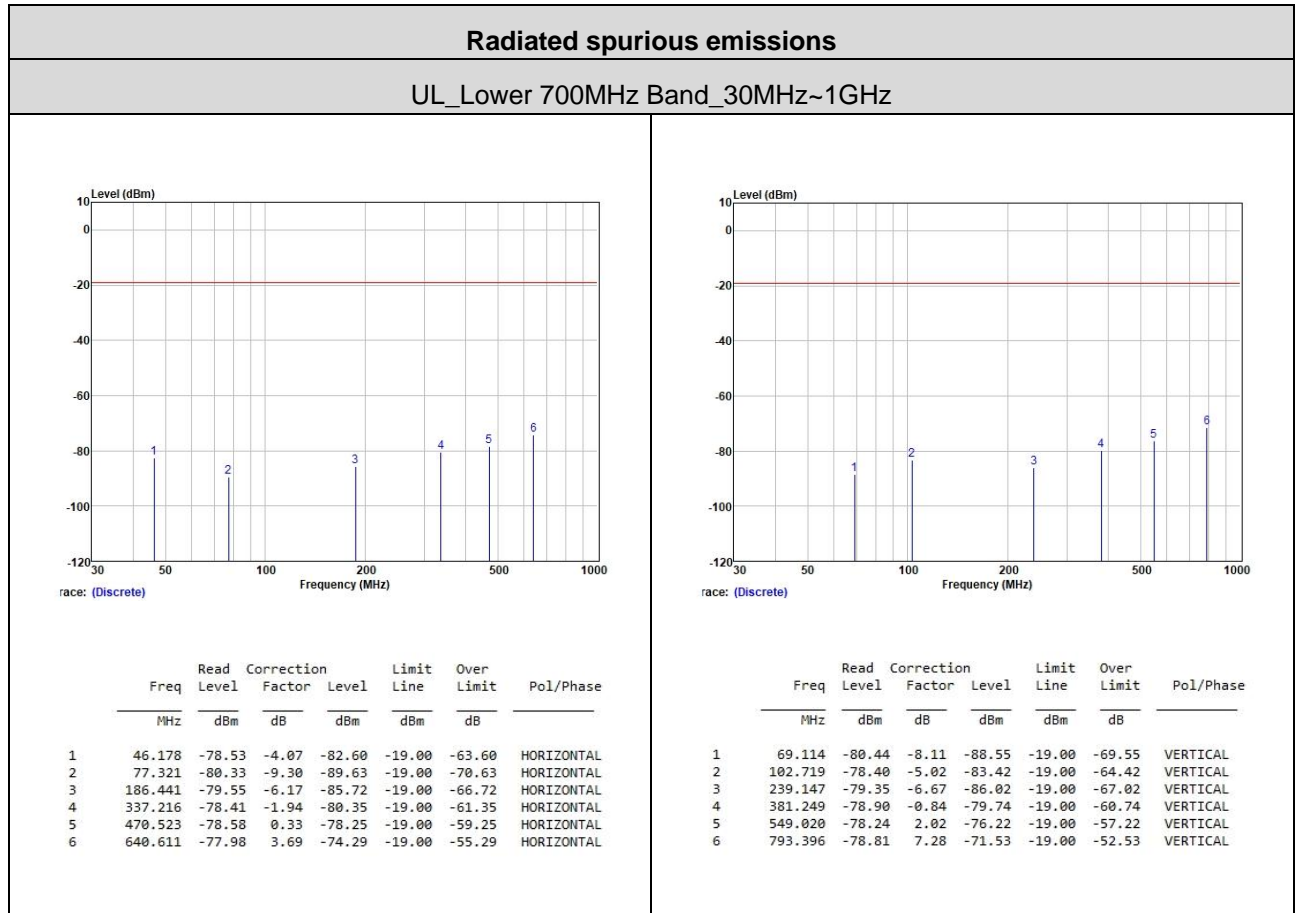
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12 Radiated spurious emissions

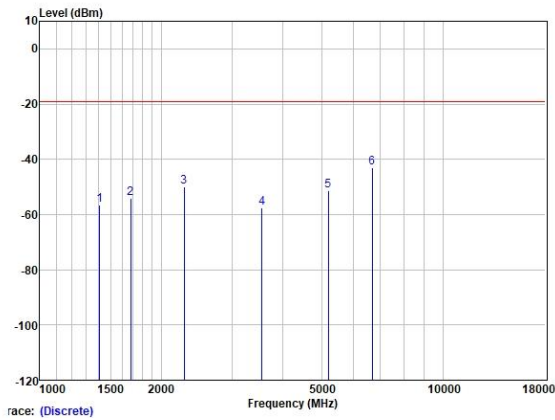


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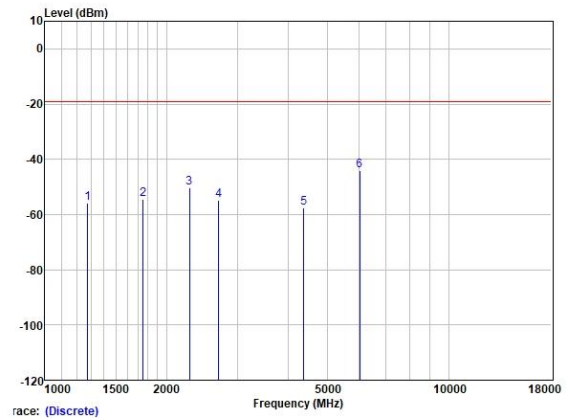
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Radiated spurious emissions

UL_Lower 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1406.443	-61.10	4.61	-56.49	-19.00	-37.49	HORIZONTAL
2	1682.477	-60.48	6.21	-54.27	-19.00	-35.27	HORIZONTAL
3	2279.044	-59.37	9.53	-49.84	-19.00	-30.84	HORIZONTAL
4	3556.843	-61.68	4.05	-57.63	-19.00	-38.63	HORIZONTAL
5	5194.041	-64.19	12.68	-51.51	-19.00	-32.51	HORIZONTAL
6	6679.040	-63.14	20.25	-42.89	-19.00	-23.89	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1274.802	-60.41	4.40	-56.01	-19.00	-37.01	VERTICAL
2	1751.955	-60.27	5.70	-54.57	-19.00	-35.57	VERTICAL
3	2279.044	-59.81	9.56	-50.25	-19.00	-31.25	VERTICAL
4	2694.998	-59.81	5.07	-54.74	-19.00	-35.74	VERTICAL
5	4379.699	-62.51	4.78	-57.73	-19.00	-38.73	VERTICAL
6	6018.999	-63.77	19.55	-44.22	-19.00	-25.22	VERTICAL

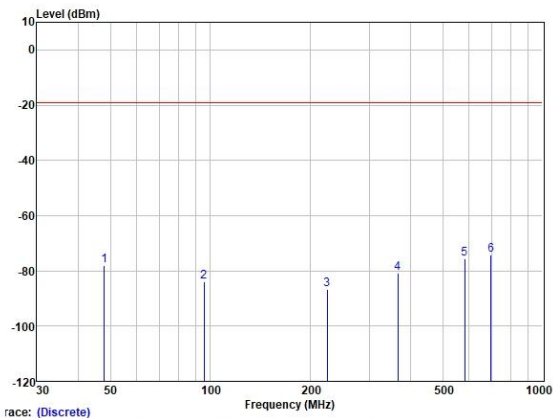


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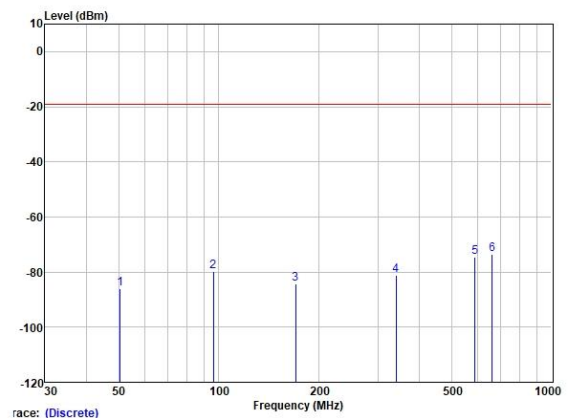
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Radiated spurious emissions

UL_Upper 700MHz Band_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	47.826	-75.56	-2.63	-78.19	-19.00	-59.19	HORIZONTAL
2	95.762	-74.14	-9.68	-83.82	-19.00	-64.82	HORIZONTAL
3	224.519	-79.34	-7.22	-86.56	-19.00	-67.56	HORIZONTAL
4	366.823	-79.65	-1.28	-80.93	-19.00	-61.93	HORIZONTAL
5	582.743	-77.79	2.20	-75.59	-19.00	-56.59	HORIZONTAL
6	699.305	-78.63	4.34	-74.29	-19.00	-55.29	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	50.586	-79.32	-6.65	-85.97	-19.00	-66.97	VERTICAL
2	96.436	-74.00	-5.66	-79.66	-19.00	-60.66	VERTICAL
3	170.195	-80.19	-3.94	-84.13	-19.00	-65.13	VERTICAL
4	340.782	-78.88	-2.23	-81.11	-19.00	-62.11	VERTICAL
5	588.905	-78.22	3.52	-74.70	-19.00	-55.70	VERTICAL
6	663.473	-78.44	4.82	-73.62	-19.00	-54.62	VERTICAL

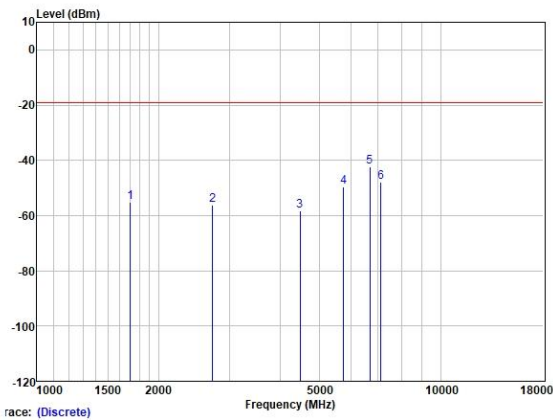


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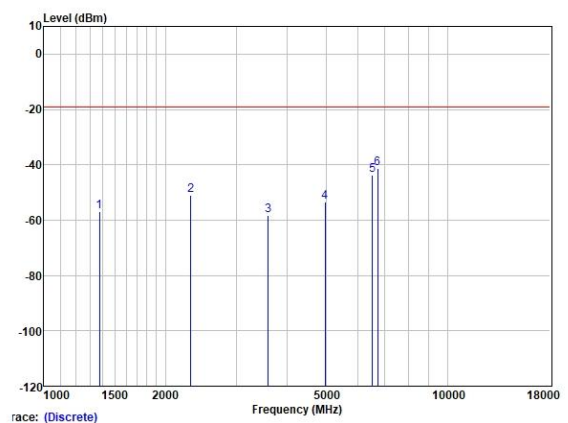
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Radiated spurious emissions

UL_Upper 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1702.042	-61.62	6.40	-55.22	-19.00	-36.22	HORIZONTAL
2	2726.337	-60.44	4.28	-56.16	-19.00	-37.16	HORIZONTAL
3	4482.150	-63.98	5.64	-58.34	-19.00	-39.34	HORIZONTAL
4	5746.982	-63.33	13.66	-49.67	-19.00	-30.67	HORIZONTAL
5	6679.040	-62.69	20.25	-42.44	-19.00	-23.44	HORIZONTAL
6	7117.542	-66.80	18.97	-47.83	-19.00	-28.83	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1374.295	-60.89	4.08	-56.81	-19.00	-37.81	VERTICAL
2	2312.219	-60.53	9.62	-50.91	-19.00	-31.91	VERTICAL
3	3598.203	-63.32	4.86	-58.46	-19.00	-39.46	VERTICAL
4	4973.662	-63.39	9.92	-53.47	-19.00	-34.47	VERTICAL
5	6526.373	-63.99	20.13	-43.86	-19.00	-24.86	VERTICAL
6	6717.762	-62.01	20.83	-41.18	-19.00	-22.18	VERTICAL

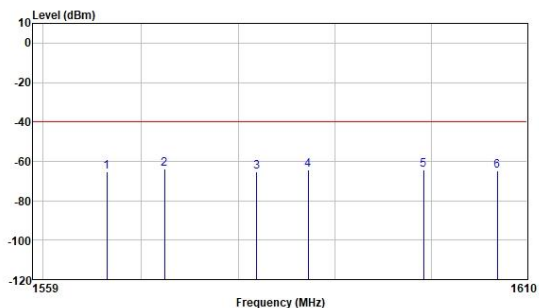


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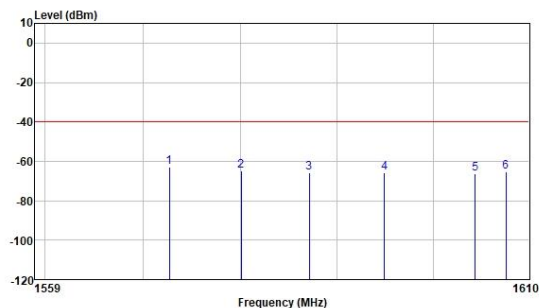
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Radiated spurious emissions

UL_Upper 700MHz Band_1559-1610MHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1566.55	-70.46	5.07	-65.39	-40.00	-25.39	HORIZONTAL
2	1572.41	-68.84	5.12	-63.72	-40.00	-23.72	HORIZONTAL
3	1581.90	-70.60	5.17	-65.43	-40.00	-25.43	HORIZONTAL
4	1587.28	-69.61	5.19	-64.42	-40.00	-24.42	HORIZONTAL
5	1599.15	-69.46	5.22	-64.24	-40.00	-24.24	HORIZONTAL
6	1606.84	-70.16	5.28	-64.88	-40.00	-24.88	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1572.71	-68.45	5.31	-63.14	-40.00	-23.14	VERTICAL
2	1580.07	-69.93	5.21	-64.72	-40.00	-24.72	VERTICAL
3	1587.10	-71.04	5.04	-66.00	-40.00	-26.00	VERTICAL
4	1594.89	-70.81	4.89	-65.92	-40.00	-25.92	VERTICAL
5	1604.36	-70.98	4.85	-66.13	-40.00	-26.13	VERTICAL
6	1607.57	-70.34	4.85	-65.49	-40.00	-25.49	VERTICAL

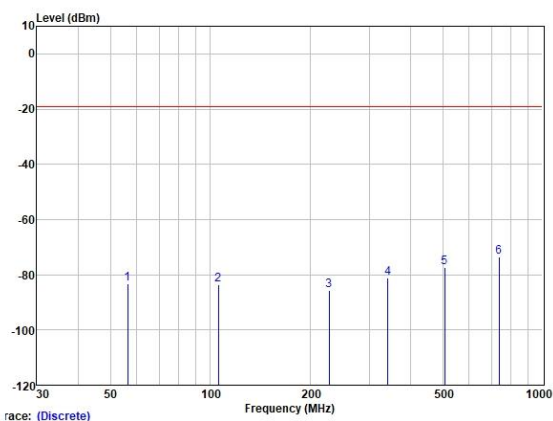


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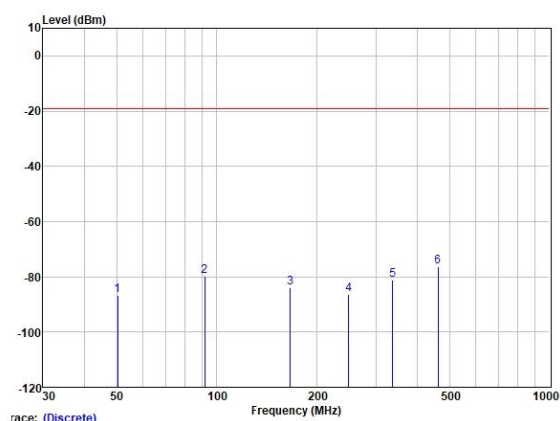
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Radiated spurious emissions

UL_Cellular Band_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	56.395	-81.15	-2.18	-83.33	-19.00	-64.33	HORIZONTAL
2	105.642	-74.37	-9.37	-83.74	-19.00	-64.74	HORIZONTAL
3	227.691	-78.65	-6.98	-85.63	-19.00	-66.63	HORIZONTAL
4	341.979	-79.56	-1.70	-81.26	-19.00	-62.26	HORIZONTAL
5	506.479	-77.82	0.41	-77.41	-19.00	-58.41	HORIZONTAL
6	739.661	-78.28	4.57	-73.71	-19.00	-54.71	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	50.409	-80.19	-6.70	-86.89	-19.00	-67.89	VERTICAL
2	91.816	-72.93	-6.76	-79.69	-19.00	-60.69	VERTICAL
3	166.068	-79.87	-3.94	-83.81	-19.00	-64.81	VERTICAL
4	248.552	-80.22	-6.05	-86.27	-19.00	-67.27	VERTICAL
5	337.216	-79.06	-2.28	-81.34	-19.00	-62.34	VERTICAL
6	462.346	-78.06	1.70	-76.36	-19.00	-57.36	VERTICAL

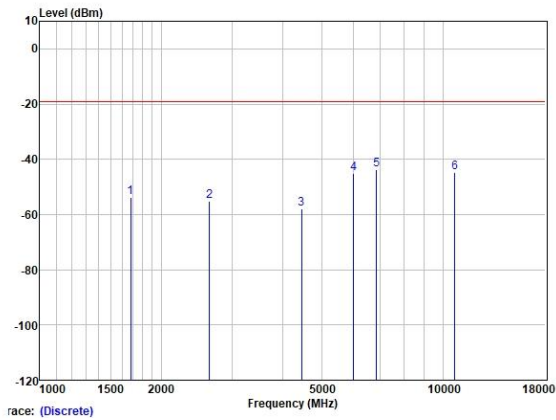


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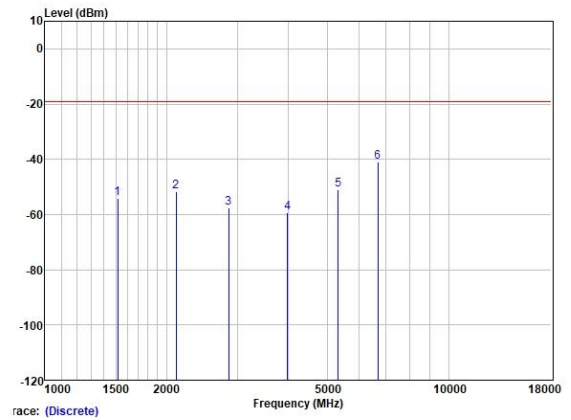
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Radiated spurious emissions

UL_Cellular Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1682.477	-60.12	6.21	-53.91	-19.00	-34.91	HORIZONTAL
2	2633.397	-60.53	5.41	-55.12	-19.00	-36.12	HORIZONTAL
3	4456.315	-63.11	5.19	-57.92	-19.00	-38.92	HORIZONTAL
4	6001.626	-64.25	19.18	-45.07	-19.00	-26.07	HORIZONTAL
5	6855.063	-63.94	20.19	-43.75	-19.00	-24.75	HORIZONTAL
6	10698.510	-68.78	23.84	-44.94	-19.00	-25.94	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1516.210	-60.85	6.70	-54.15	-19.00	-35.15	VERTICAL
2	2114.052	-60.84	9.12	-51.72	-19.00	-32.72	VERTICAL
3	2855.380	-62.00	4.57	-57.43	-19.00	-38.43	VERTICAL
4	3992.781	-62.95	3.47	-59.48	-19.00	-40.48	VERTICAL
5	5330.928	-64.25	13.21	-51.04	-19.00	-32.04	VERTICAL
6	6679.040	-61.82	20.72	-41.10	-19.00	-22.10	VERTICAL

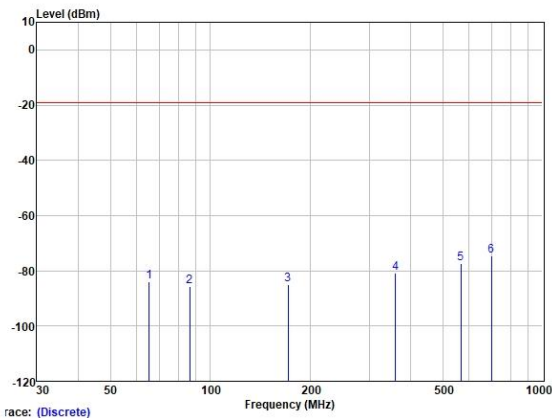


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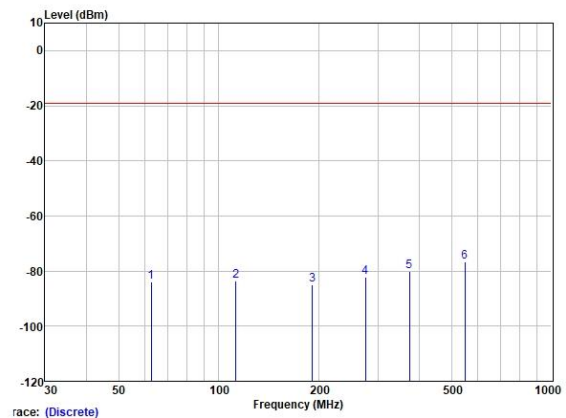
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Radiated spurious emissions

UL_AWS-1 Band_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	65.343	-79.20	-4.80	-84.00	-19.00	-65.00	HORIZONTAL
2	86.503	-75.86	-9.90	-85.76	-19.00	-66.76	HORIZONTAL
3	171.393	-78.85	-6.16	-85.01	-19.00	-66.01	HORIZONTAL
4	360.448	-79.62	-1.33	-80.95	-19.00	-61.95	HORIZONTAL
5	566.622	-79.06	1.82	-77.24	-19.00	-58.24	HORIZONTAL
6	701.761	-78.84	4.25	-74.59	-19.00	-55.59	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	62.651	-80.57	-3.39	-83.96	-19.00	-64.96	VERTICAL
2	112.524	-79.42	-4.26	-83.68	-19.00	-64.68	VERTICAL
3	191.074	-80.57	-4.36	-84.93	-19.00	-65.93	VERTICAL
4	276.124	-79.31	-2.94	-82.25	-19.00	-63.25	VERTICAL
5	373.311	-78.72	-1.29	-80.01	-19.00	-61.01	VERTICAL
6	549.020	-78.52	2.02	-76.50	-19.00	-57.50	VERTICAL

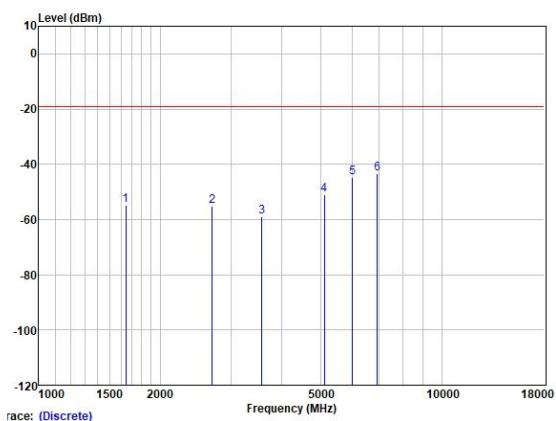


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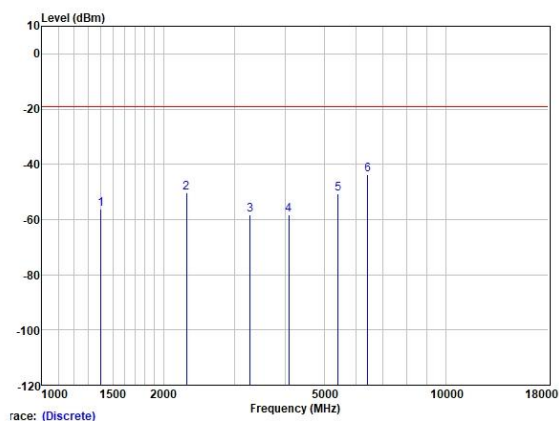
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Radiated spurious emissions

UL_AWS-1 Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1644.019	-60.40	5.68	-54.72	-19.00	-35.72	HORIZONTAL
2	2694.998	-59.70	4.53	-55.17	-19.00	-36.17	HORIZONTAL
3	3577.463	-63.27	4.23	-59.04	-19.00	-40.04	HORIZONTAL
4	5119.517	-63.18	12.10	-51.08	-19.00	-32.08	HORIZONTAL
5	6001.626	-64.06	19.18	-44.88	-19.00	-25.88	HORIZONTAL
6	6914.763	-63.35	19.89	-43.46	-19.00	-24.46	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1398.336	-60.33	4.04	-56.29	-19.00	-37.29	VERTICAL
2	2279.044	-59.78	9.56	-50.22	-19.00	-31.22	VERTICAL
3	3280.326	-61.19	2.82	-58.37	-19.00	-39.37	VERTICAL
4	4086.182	-62.09	3.79	-58.30	-19.00	-39.30	VERTICAL
5	5408.529	-63.98	13.44	-50.54	-19.00	-31.54	VERTICAL
6	6414.167	-63.20	19.53	-43.67	-19.00	-24.67	VERTICAL

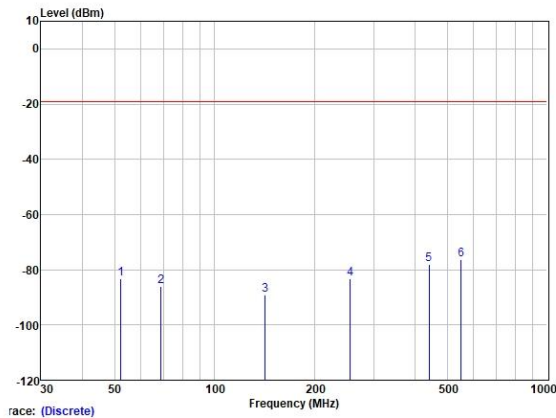


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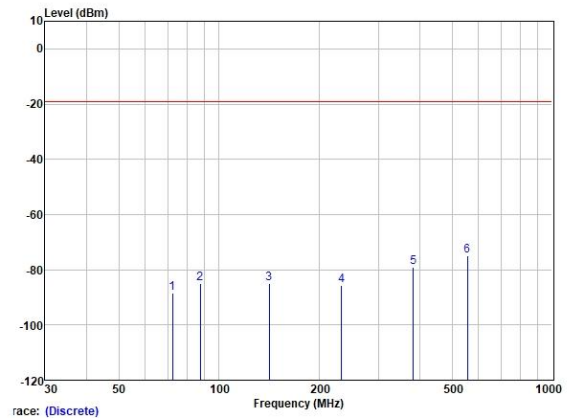
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Radiated spurious emissions

UL_Broadband PCS Band_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	52.208	-81.64	-1.46	-83.10	-19.00	-64.10	HORIZONTAL
2	68.872	-79.98	-6.17	-86.15	-19.00	-67.15	HORIZONTAL
3	141.826	-81.43	-7.70	-89.13	-19.00	-70.13	HORIZONTAL
4	255.623	-78.52	-4.83	-83.35	-19.00	-64.35	HORIZONTAL
5	441.743	-78.41	0.23	-78.18	-19.00	-59.18	HORIZONTAL
6	550.948	-77.52	1.28	-76.24	-19.00	-57.24	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	72.338	-79.72	-8.80	-88.52	-19.00	-69.52	VERTICAL
2	87.725	-76.40	-8.59	-84.99	-19.00	-65.99	VERTICAL
3	141.330	-80.97	-3.93	-84.90	-19.00	-65.90	VERTICAL
4	232.532	-79.15	-6.46	-85.61	-19.00	-66.61	VERTICAL
5	382.588	-78.24	-0.78	-79.02	-19.00	-60.02	VERTICAL
6	556.774	-77.35	2.40	-74.95	-19.00	-55.95	VERTICAL

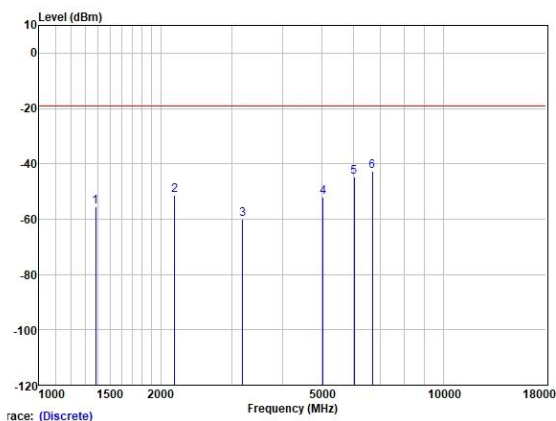


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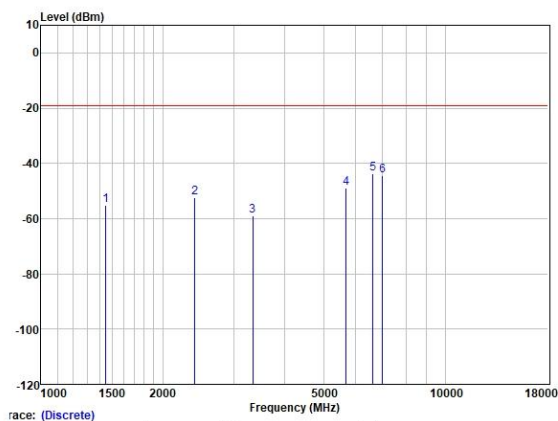
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Radiated spurious emissions

UL_Broadband PCS Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1382.262	-60.16	4.51	-55.65	-19.00	-36.65	HORIZONTAL
2	2163.504	-60.51	9.31	-51.20	-19.00	-32.20	HORIZONTAL
3	3186.869	-62.15	2.24	-59.91	-19.00	-40.91	HORIZONTAL
4	5046.062	-63.63	11.50	-52.13	-19.00	-33.13	HORIZONTAL
5	6018.999	-64.01	19.17	-44.84	-19.00	-25.84	HORIZONTAL
6	6679.040	-62.90	20.25	-42.65	-19.00	-23.65	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1447.688	-60.52	5.51	-55.01	-19.00	-36.01	VERTICAL
2	2400.753	-62.32	9.94	-52.38	-19.00	-33.38	VERTICAL
3	3337.710	-62.14	2.99	-59.15	-19.00	-40.15	VERTICAL
4	5680.921	-64.41	15.39	-49.02	-19.00	-30.02	VERTICAL
5	6621.375	-64.24	20.53	-43.71	-19.00	-24.71	VERTICAL
6	6995.172	-64.58	20.11	-44.47	-19.00	-25.47	VERTICAL

Remark:

1. Pre-test was performed at uplink and downlink path, the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.
2. Refer to clause 5 of this Appendix for more details about spurious emissions limit.

--End of Appendix--



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