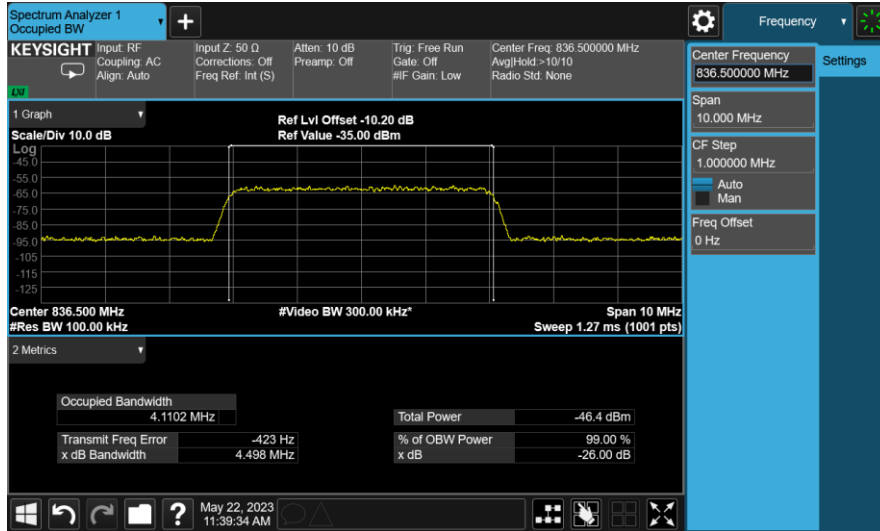


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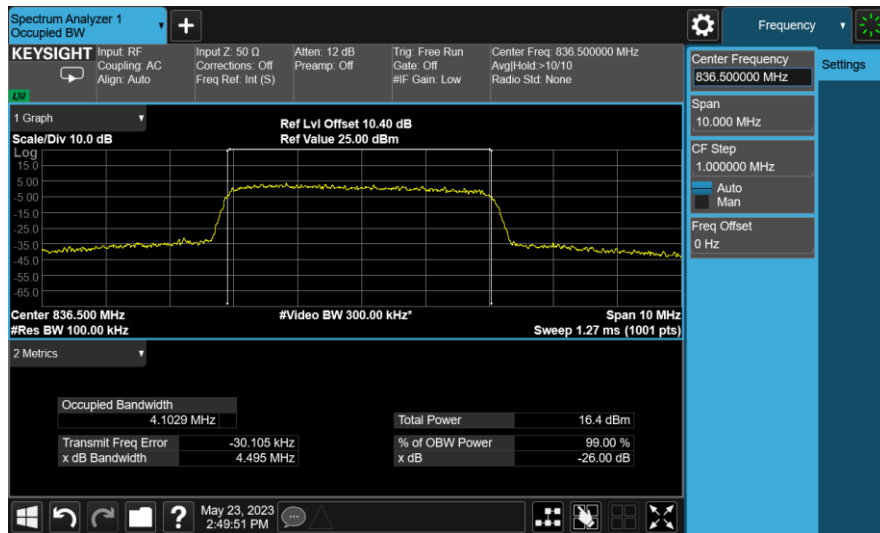
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UL_Cellular Band_4.1MHz AWGN signal type

Input



Output

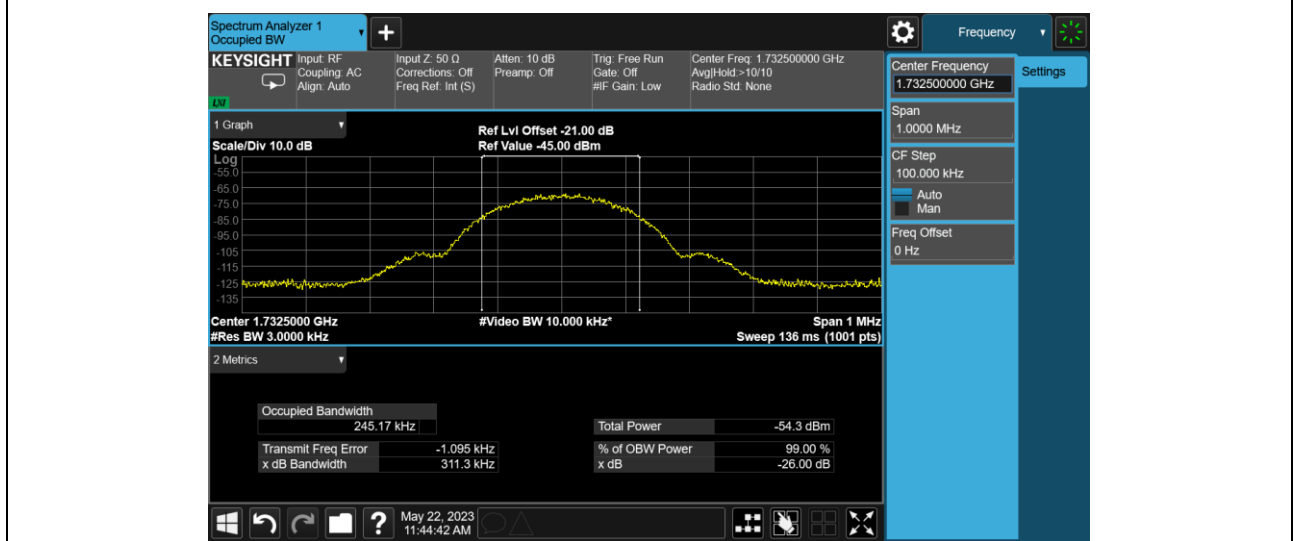


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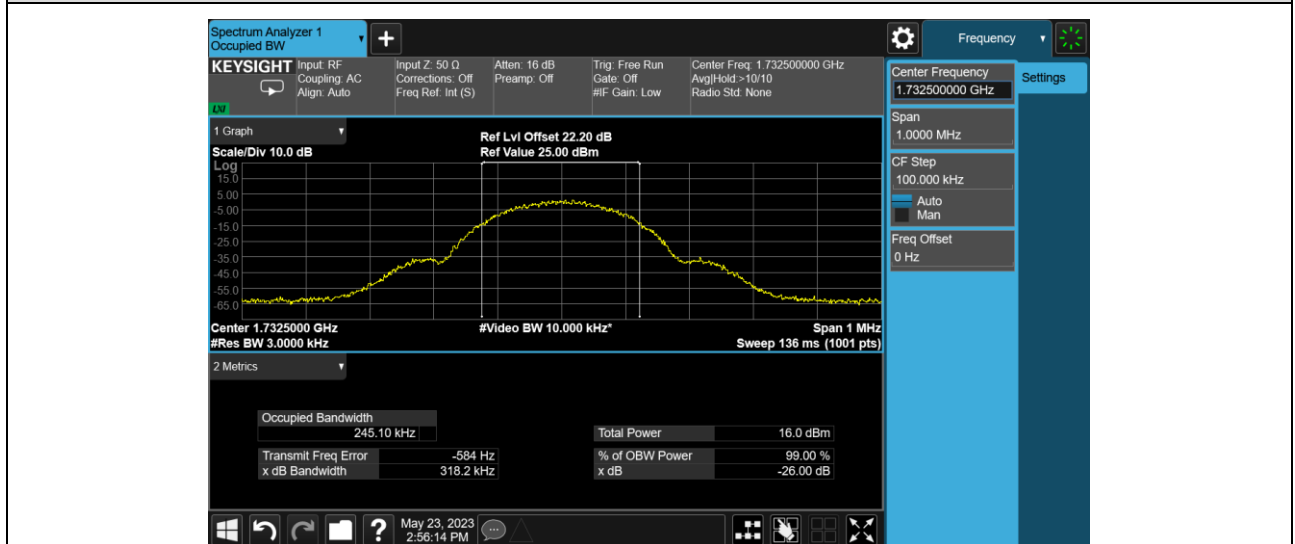
Occupied bandwidth

UL_AWS-1 Band_GSM signal type

Input



Output



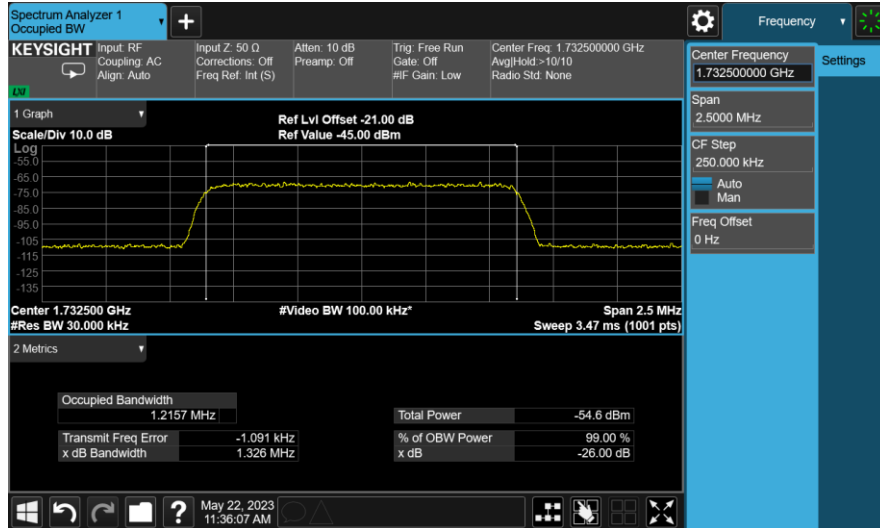
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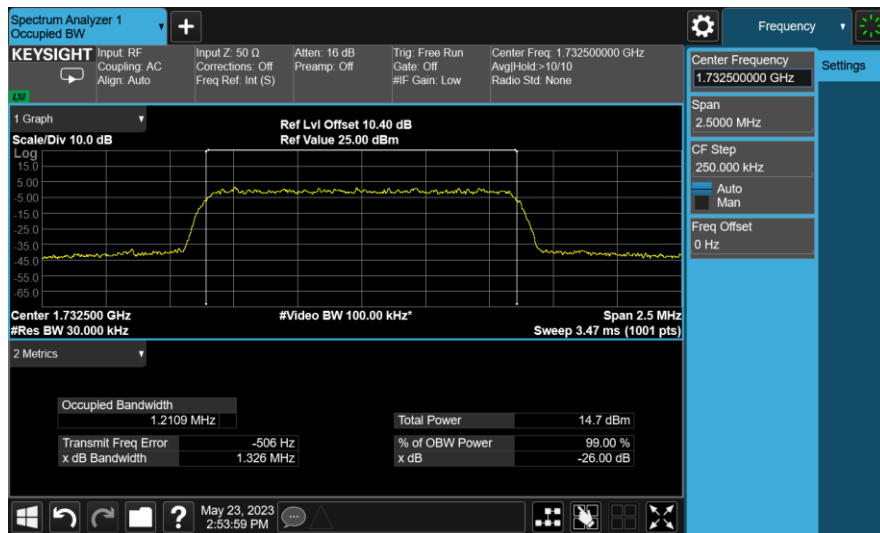
SGS-CSTC Standards Technical Services Co., Ltd. No.198 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
 Guangzhou Branch, Technical Services Co., Ltd. EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

UL_AWS-1 Band_1.25MHz AWGN signal type

Input



Output



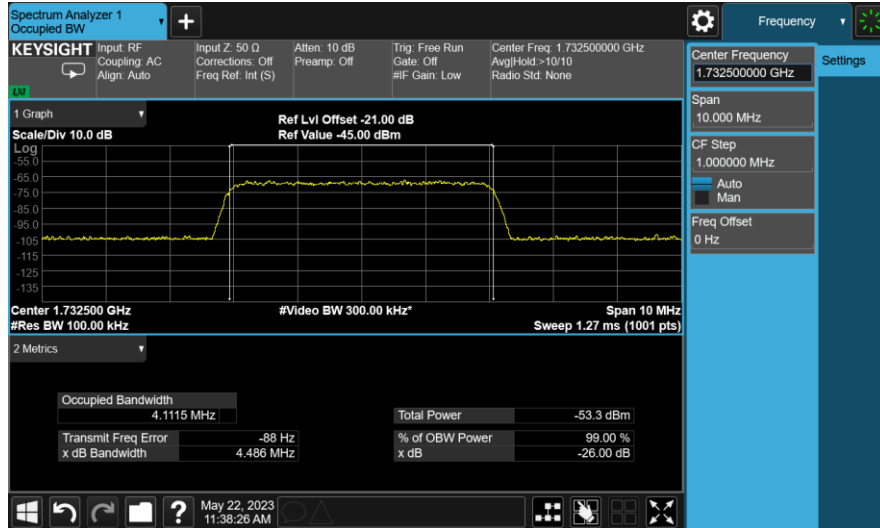
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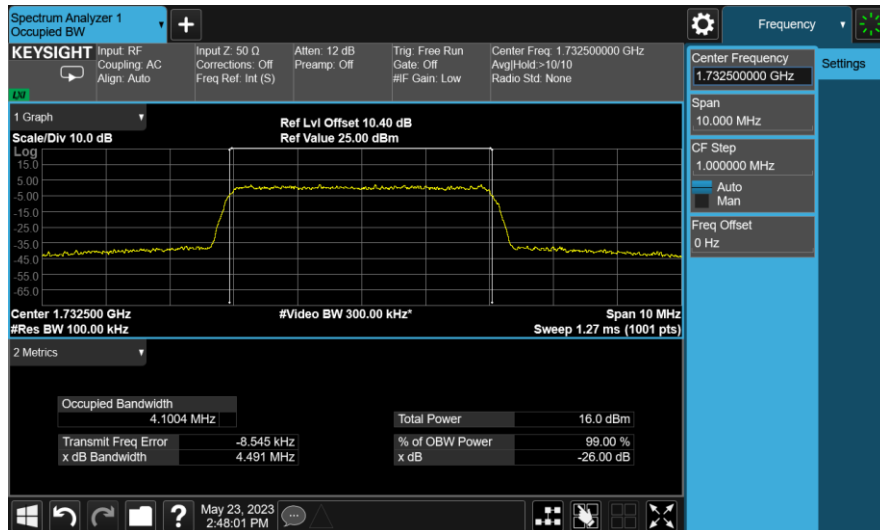
Occupied bandwidth

UL_AWS-1 Band_4.1MHz AWGN signal type

Input



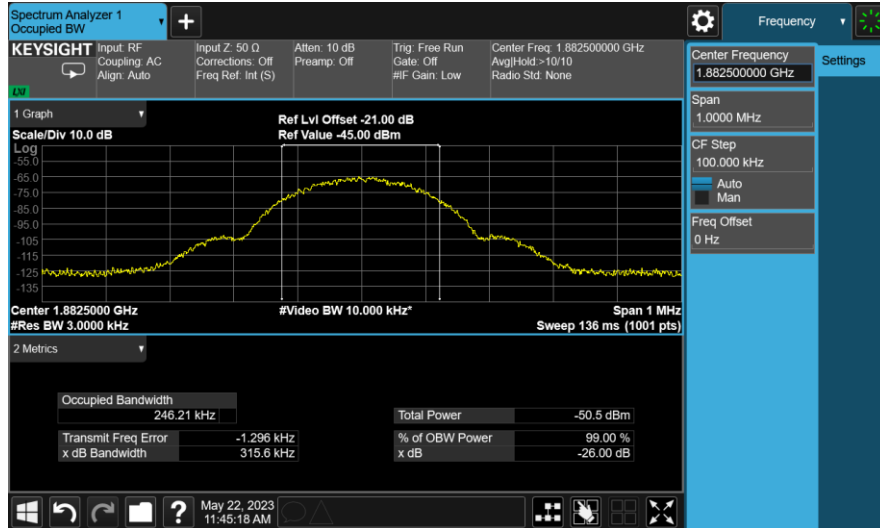
Output



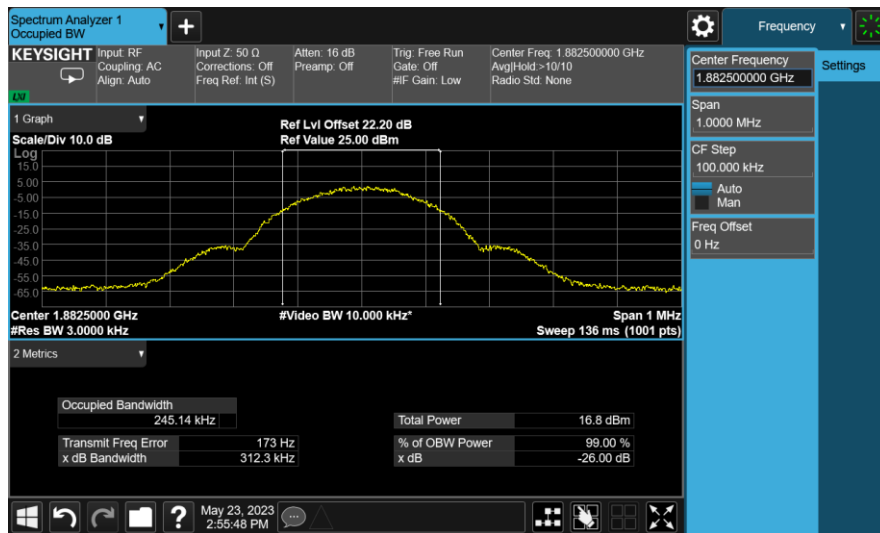
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UL_Broadband Band_GSM signal type

Input



Output



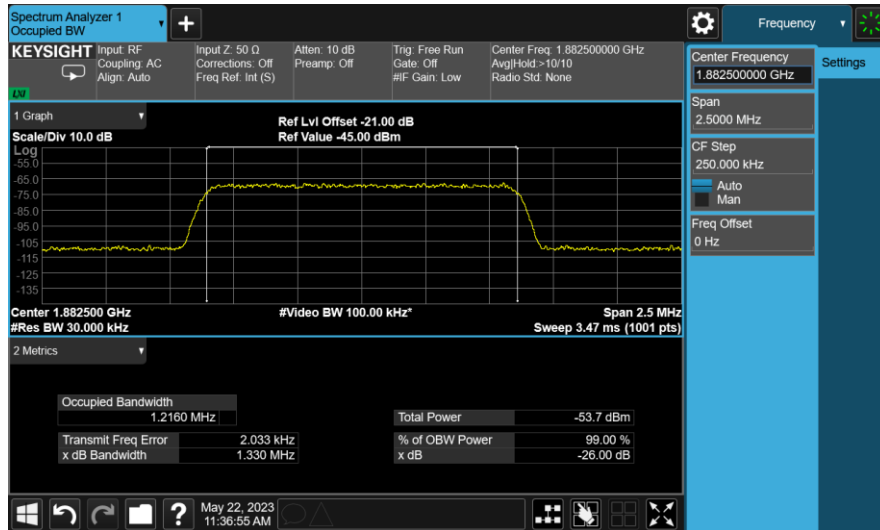
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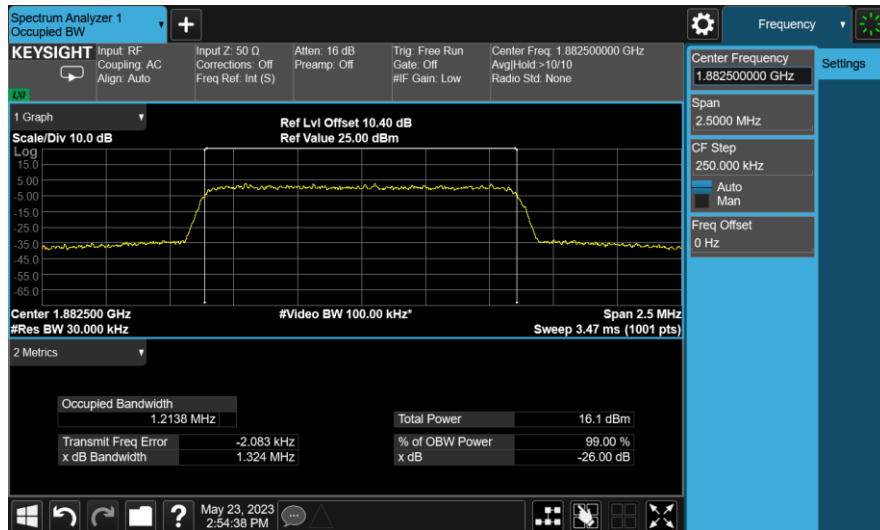
Occupied bandwidth

UL_Broadband Band_1.25MHz AWGN signal type

Input



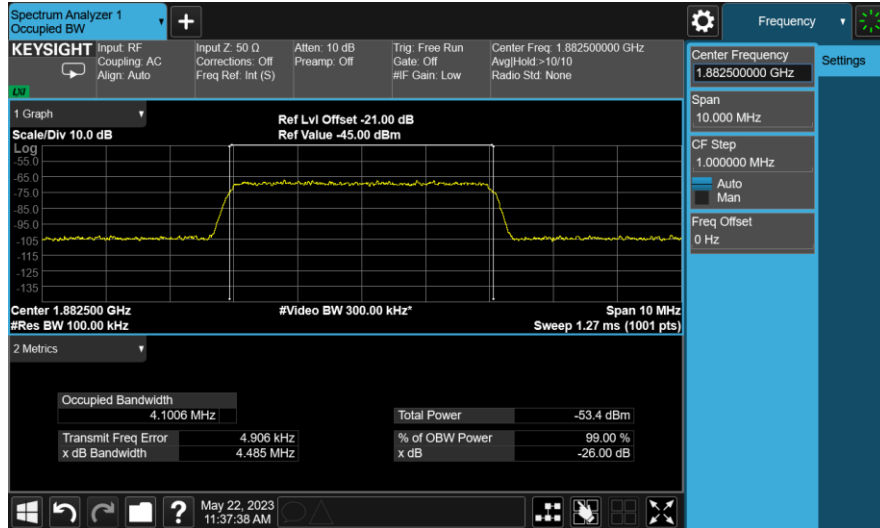
Output



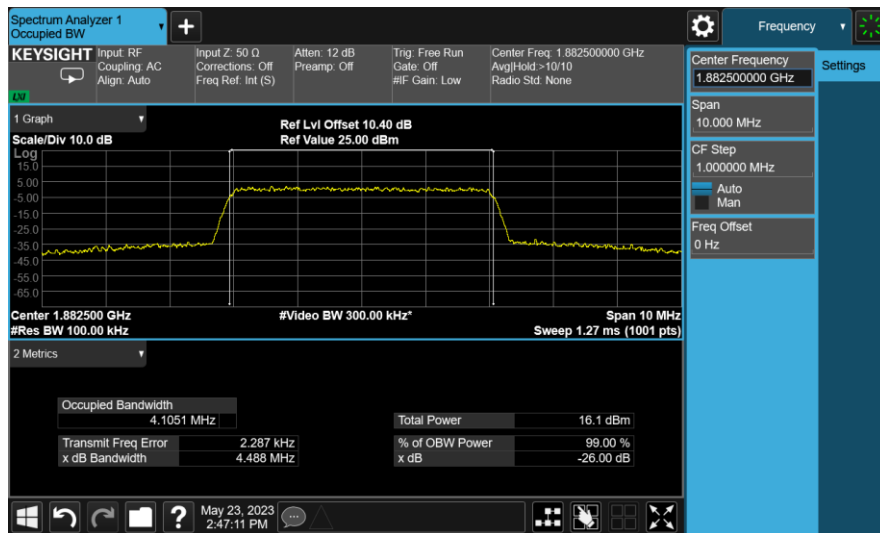
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UL_Broadband Band 4.1MHz AWGN signal type

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	4.38	2.35	≤12	PASS
		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	PASS
		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
	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	PASS
		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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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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Oscillation Restart Test	
DL_700MHz Band	
Detection time	Restart Time
Number of Restart	/
	/

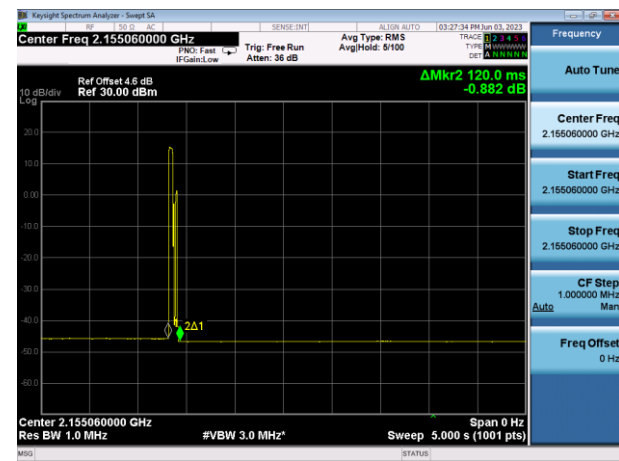

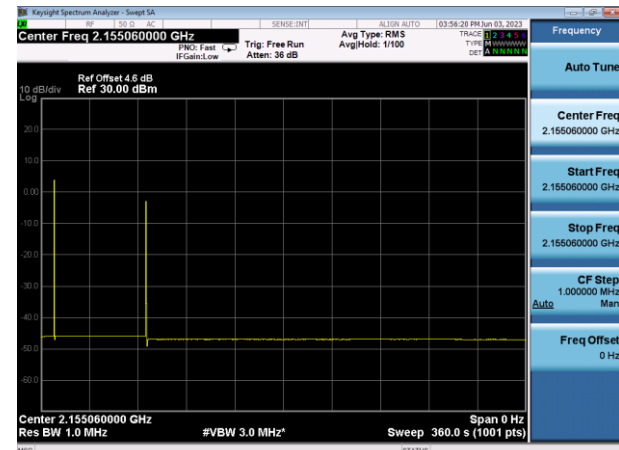


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Oscillation Restart Test	
DL_Cellular Band	
Detection time	Restart Time
<p>Center Freq 872.350000 MHz Ref Offset 4.6 dB Ref 20.00 dBm ΔMkr2 230.0 ms 0.048 dB</p>	<p>Center Freq 872.350000 MHz Ref Offset 4.6 dB Ref 30.00 dBm ΔMkr2 80.97 s -0.025 dB</p>
Number of Restart	/
<p>Center Freq 872.350000 MHz Ref Offset 4.6 dB Ref 30.00 dBm Sweep 360.0 s (1001 pts)</p>	/



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



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Oscillation Restart Test	
DL_Broadband PCS Band	
Detection time	Restart Time
Number of Restart	/
	/



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Oscillation Restart Test	
UL_Lower 700MHz Band	
Detection time	Restart Time
<p>Keysight Spectrum Analyzer - Swept SA Center Freq 707.660000 MHz Ref Offset 4.6 dB Ref 20.00 dBm ΔMkr2 280.0 ms 0.049 dB</p>	<p>Keysight Spectrum Analyzer - Swept SA Center Freq 701.660000 MHz Ref Offset 4.6 dB Ref 30.00 dBm ΔMkr2 60.48 s -0.032 dB</p>
Number of Restart	/
<p>Keysight Spectrum Analyzer - Swept SA Center Freq 701.660000 MHz Ref Offset 4.6 dB Ref 30.00 dBm Sweep 360.0 s</p>	/



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Oscillation Restart Test	
UL_Upper 700MHz Band	
Detection time	Restart Time
Number of Restart	/
	/

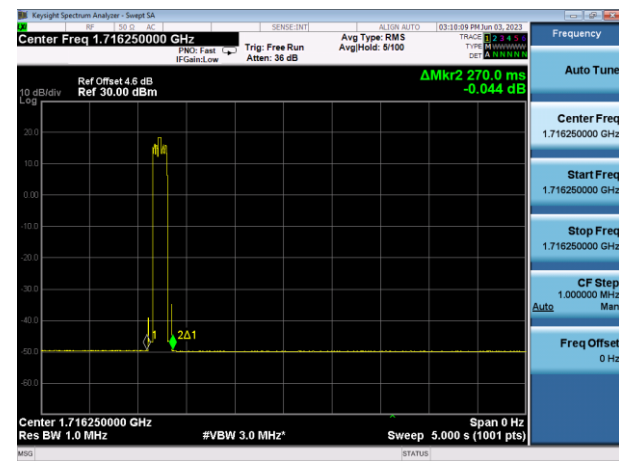

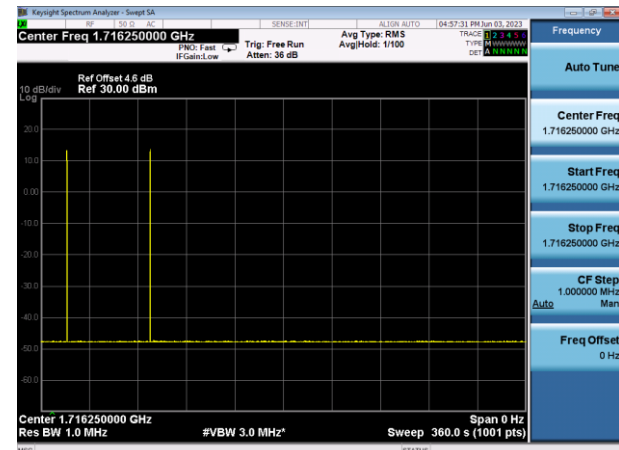


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Oscillation Restart Test	
UL_Cellular Band	
Detection time	Restart Time
<p>Center Freq 835.900000 MHz Ref Offset 4.6 dB Ref 20.00 dBm ΔMkr2 80.00 ms -0.031 dB</p>	<p>Center Freq 835.900000 MHz Ref Offset 4.6 dB Ref 30.00 dBm ΔMkr2 80.97 s -0.035 dB</p>
Number of Restart	/
<p>Center Freq 835.900000 MHz Ref Offset 4.6 dB Ref 30.00 dBm TRACE 1 2 0 0 0 1 TYPE M W W W W W OFF A M M M M M</p>	/

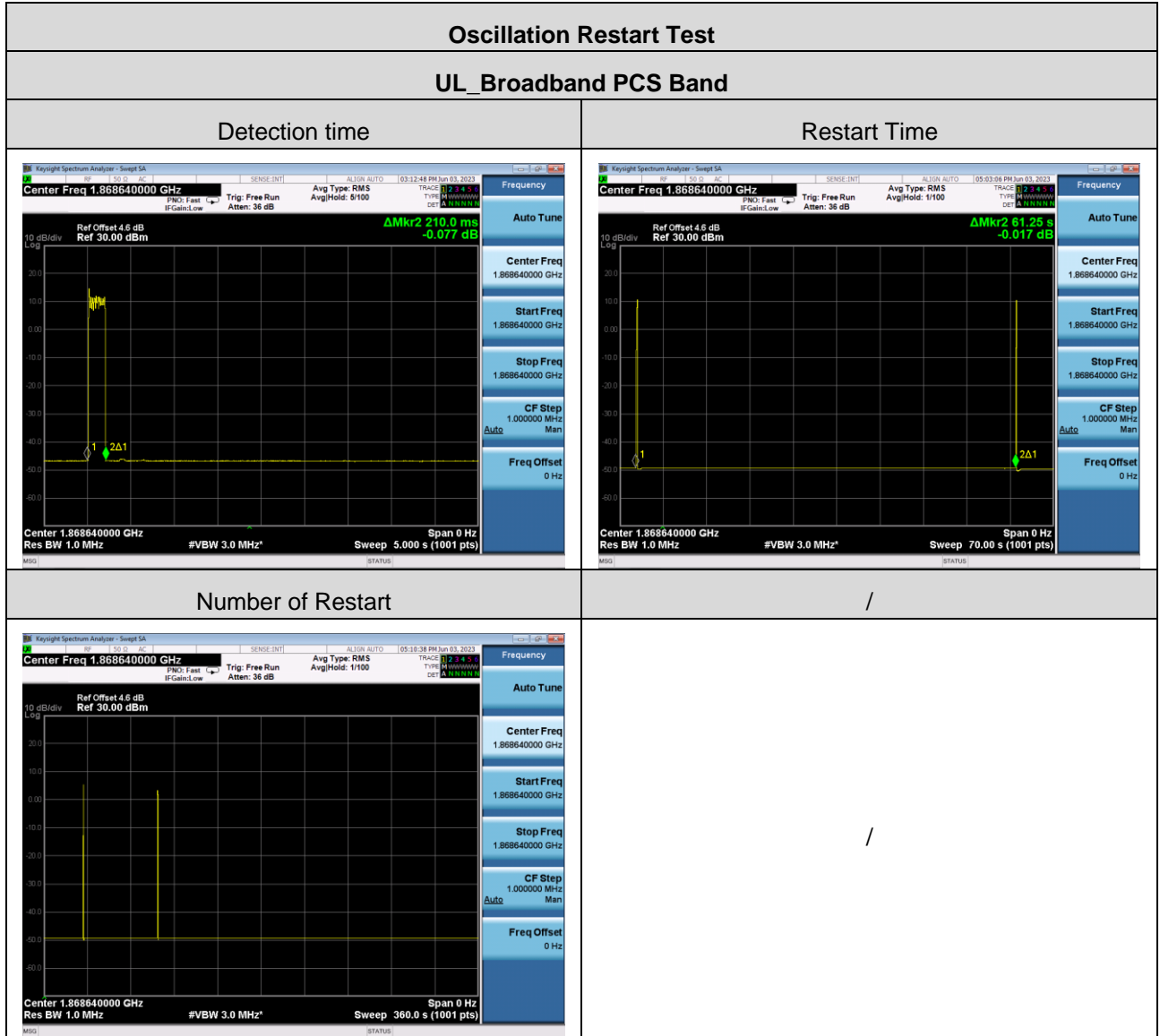


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Oscillation Restart Test	
UL_AWS-1 Band	
Detection time	Restart Time
	
Number of Restart	/
	/

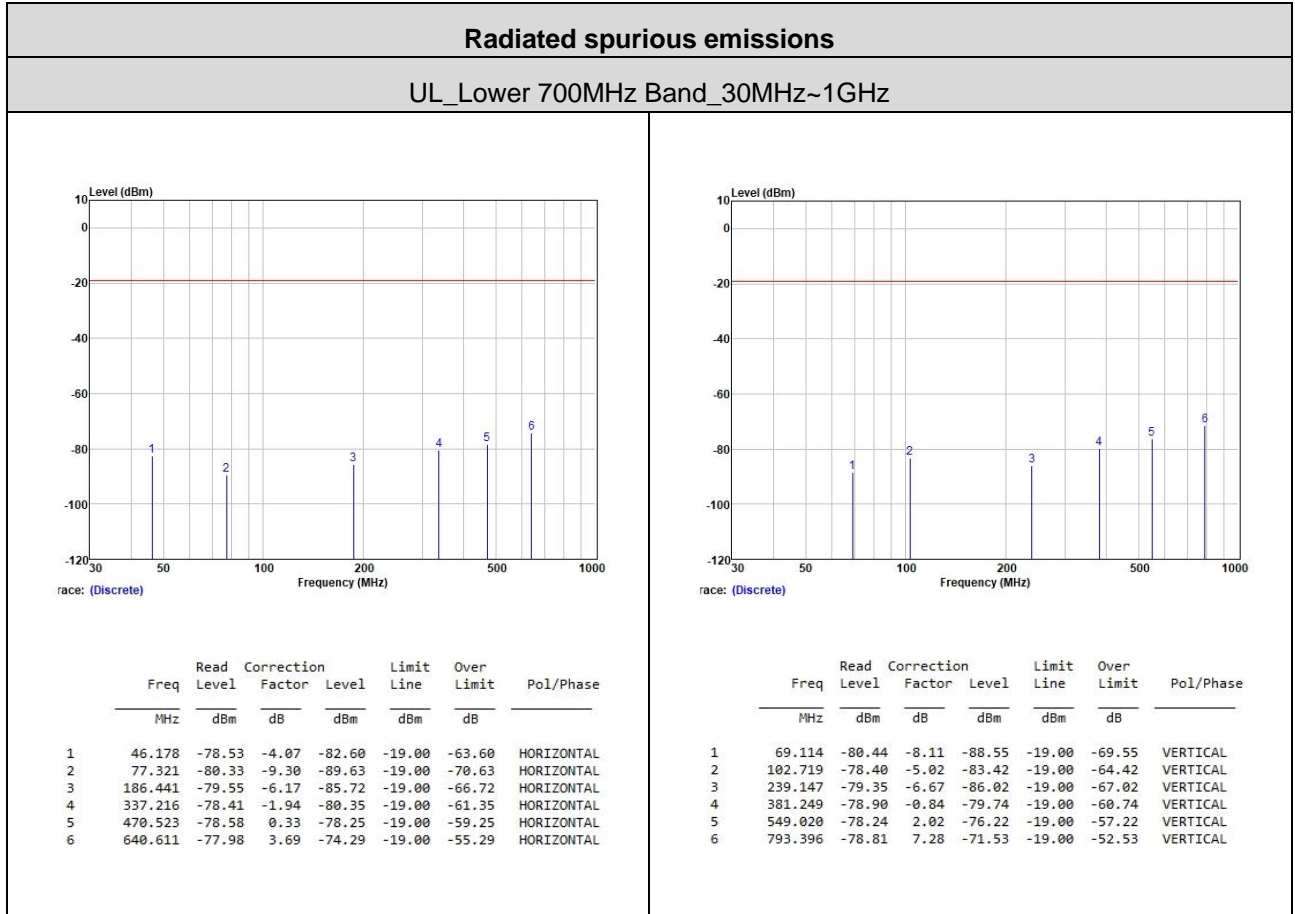


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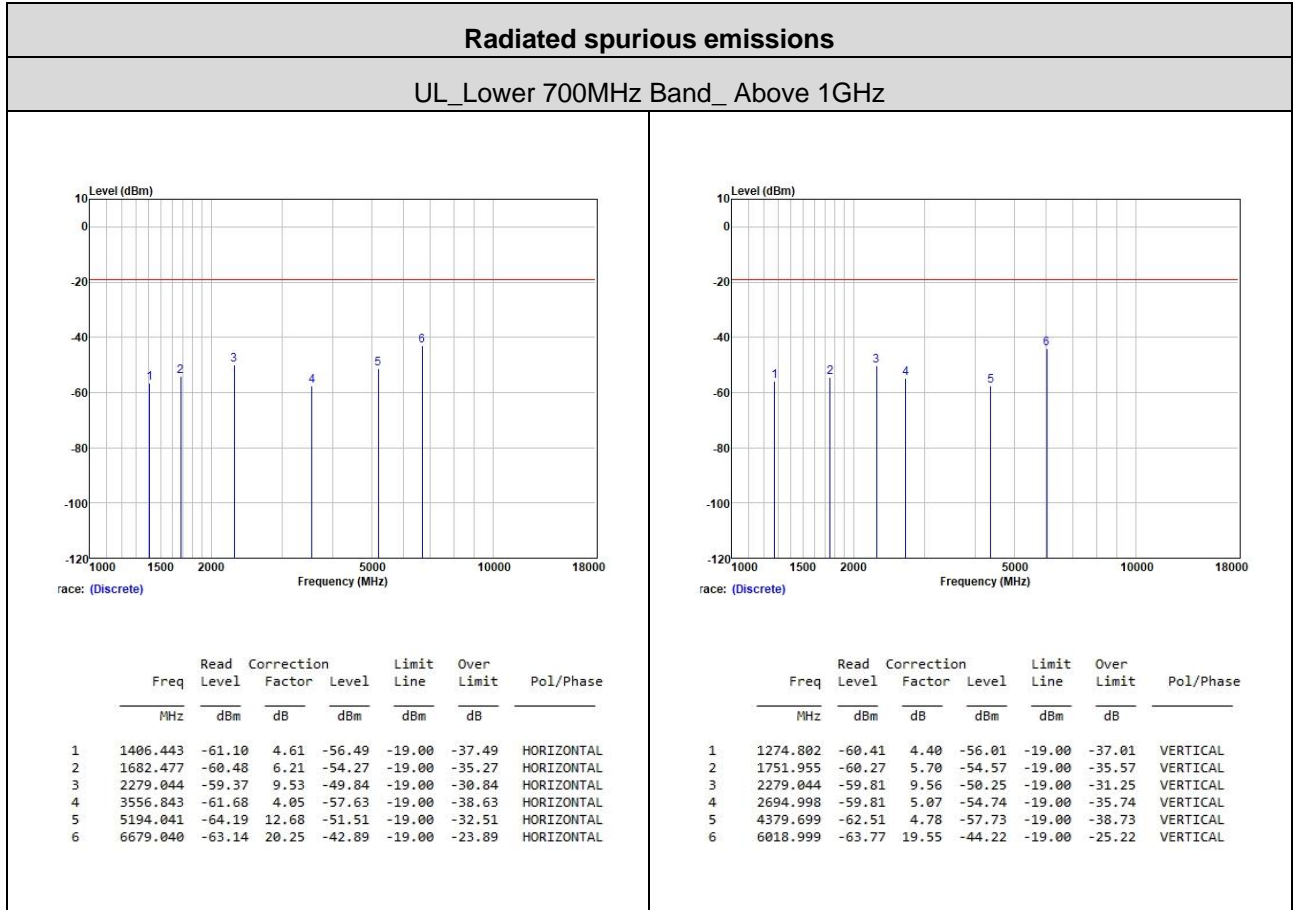


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12 Radiated spurious emissions

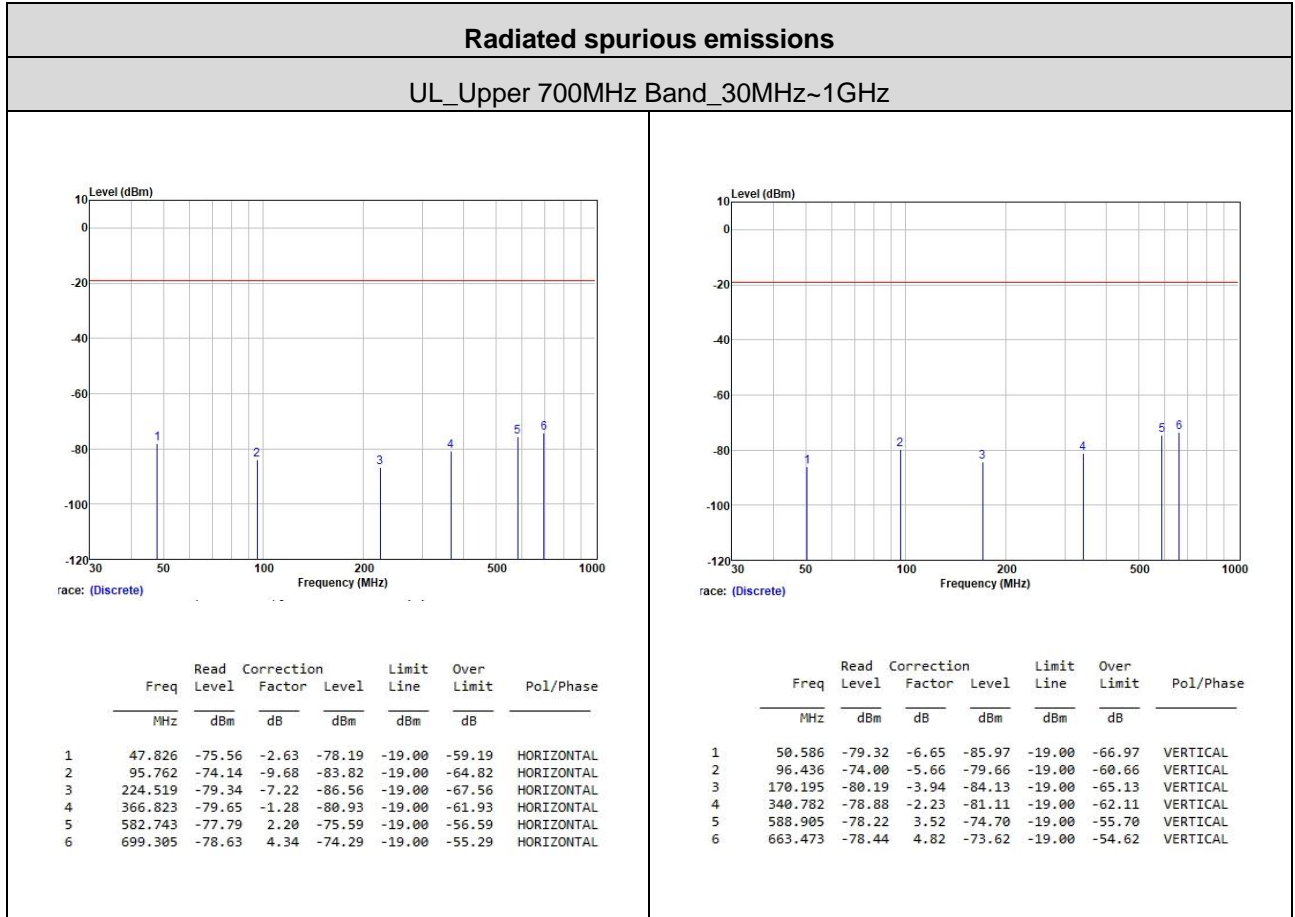


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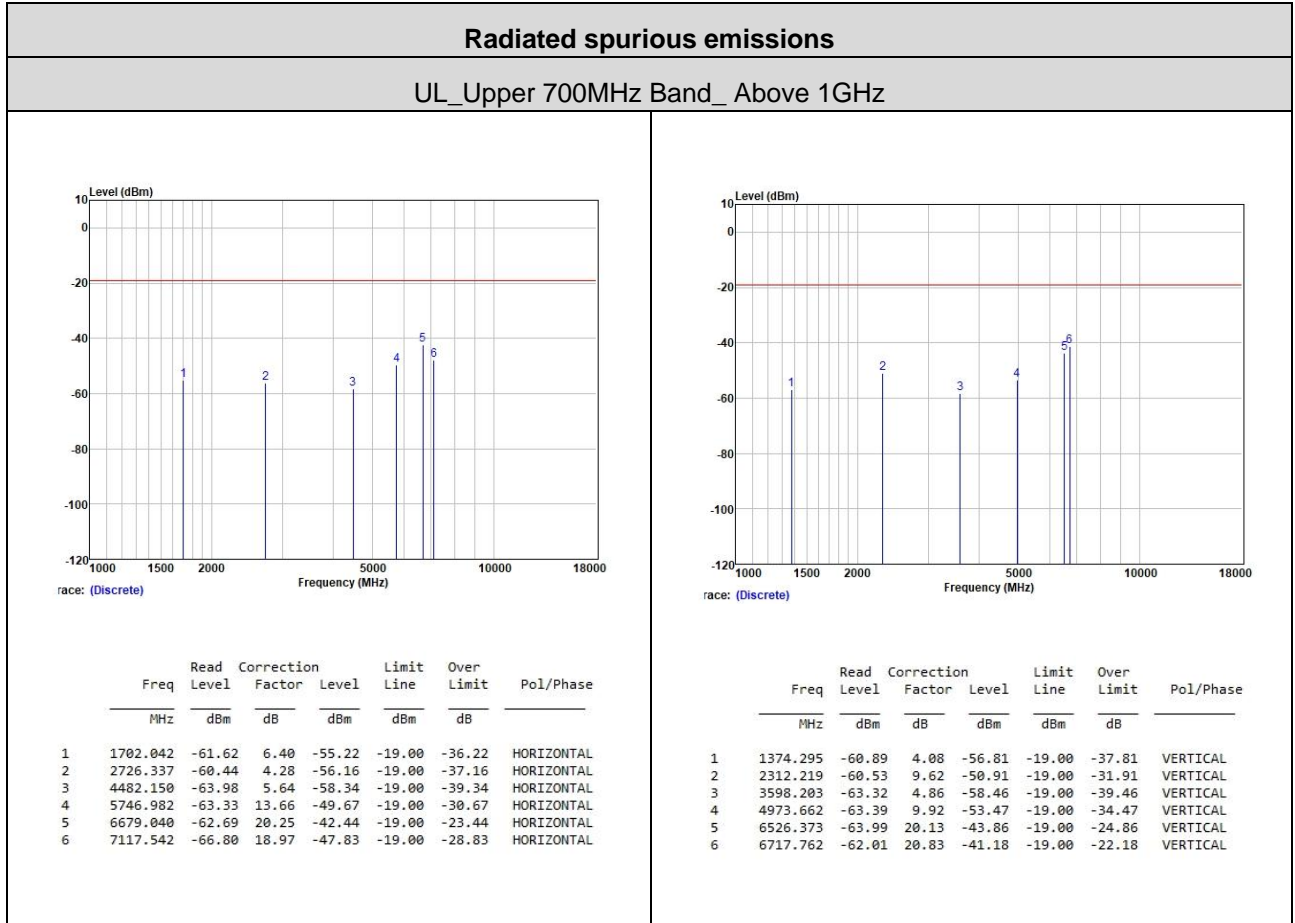
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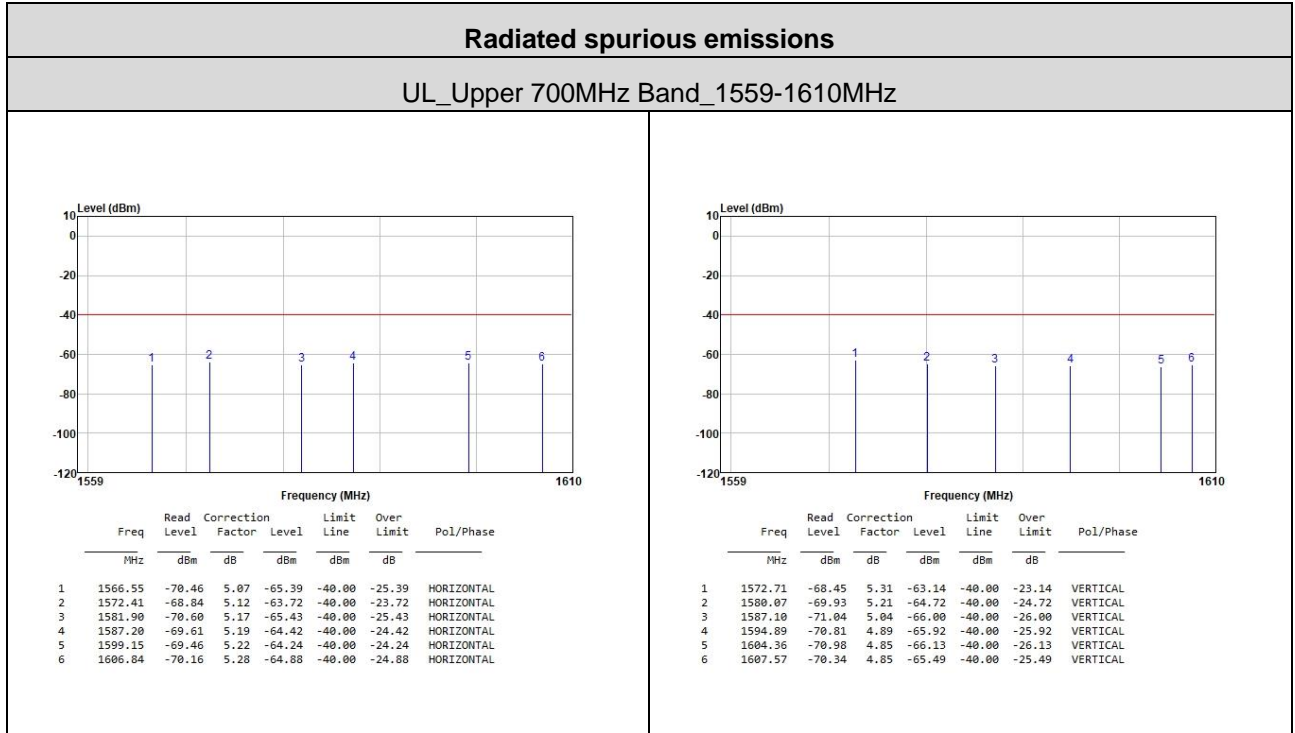
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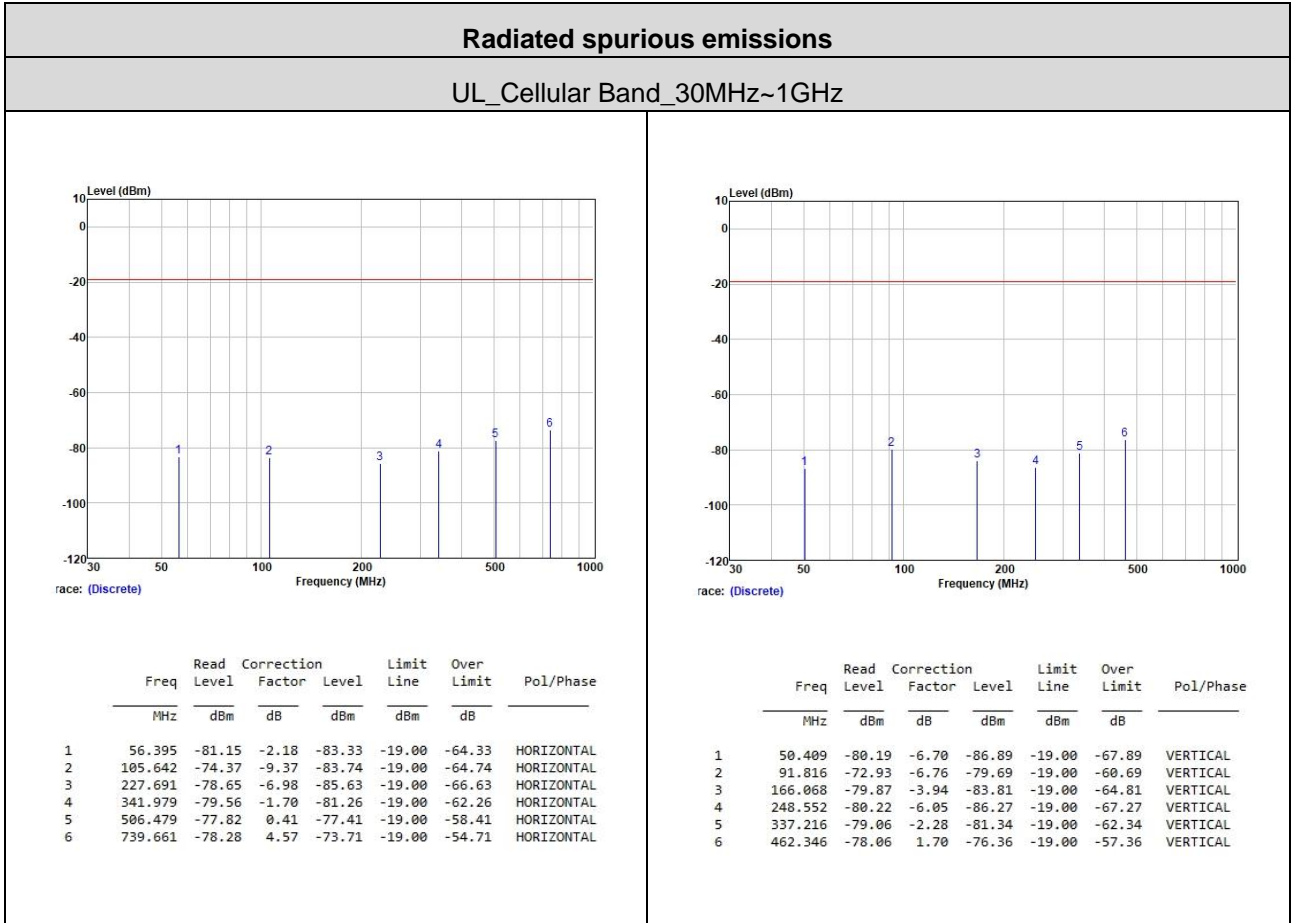
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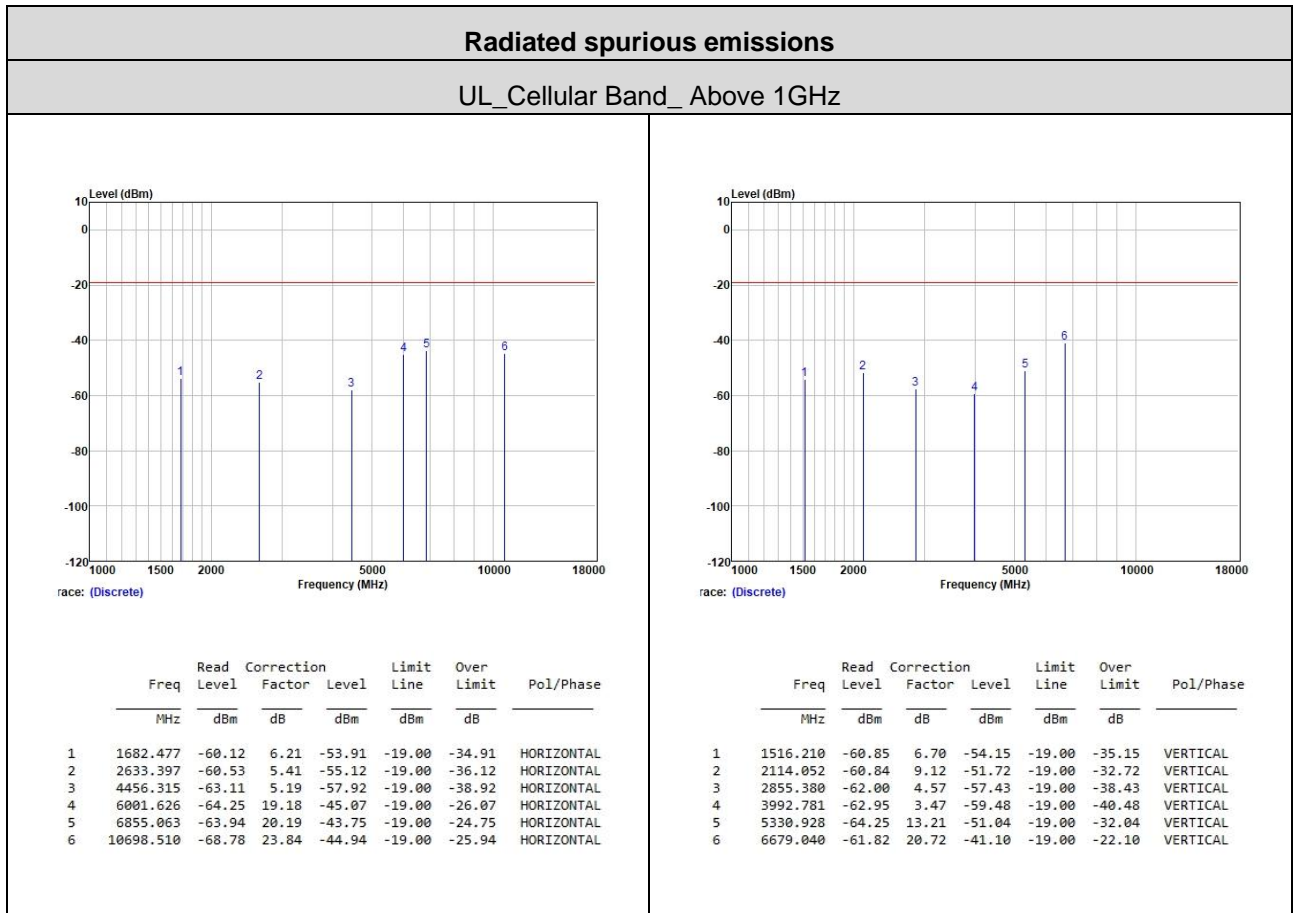
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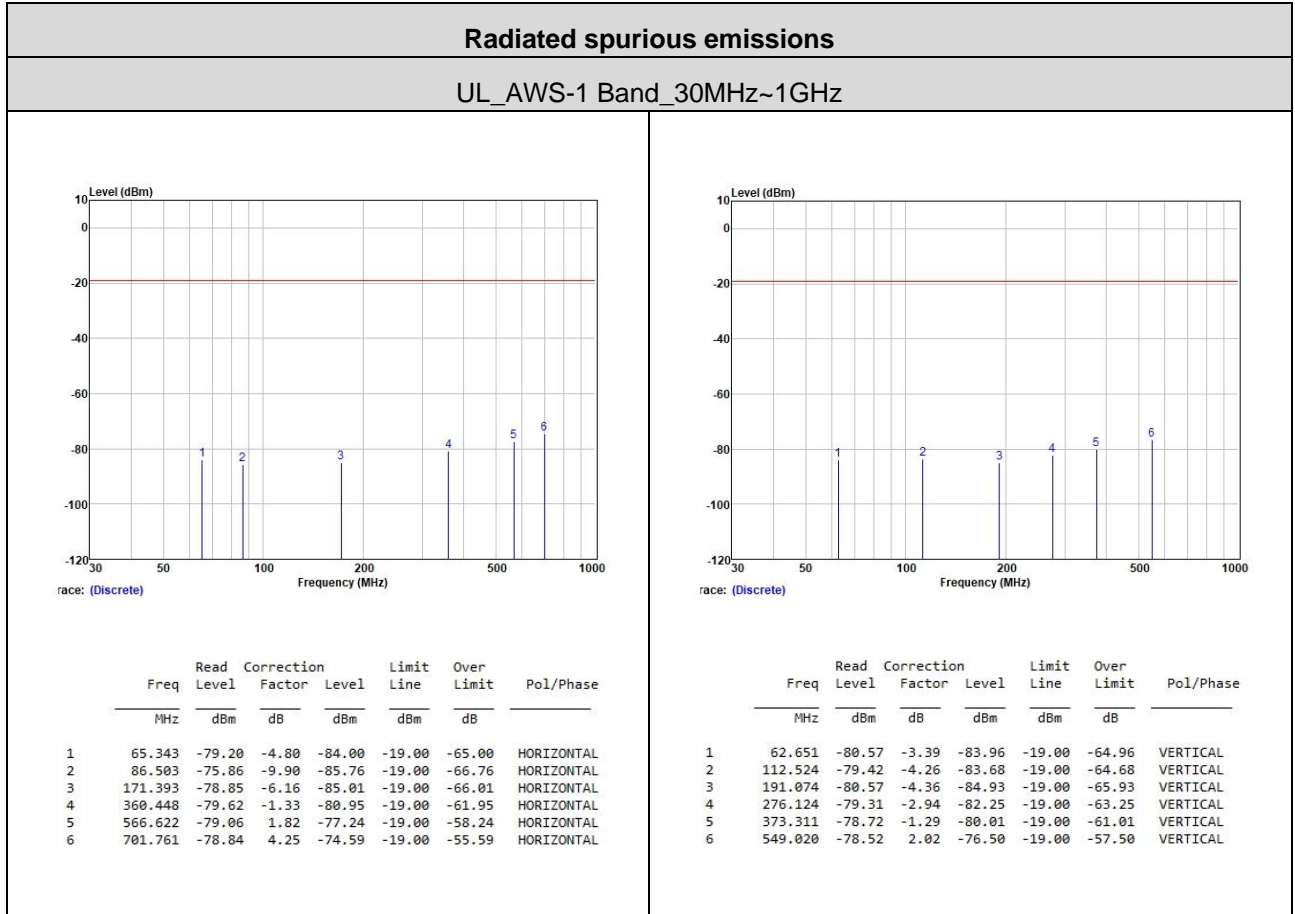
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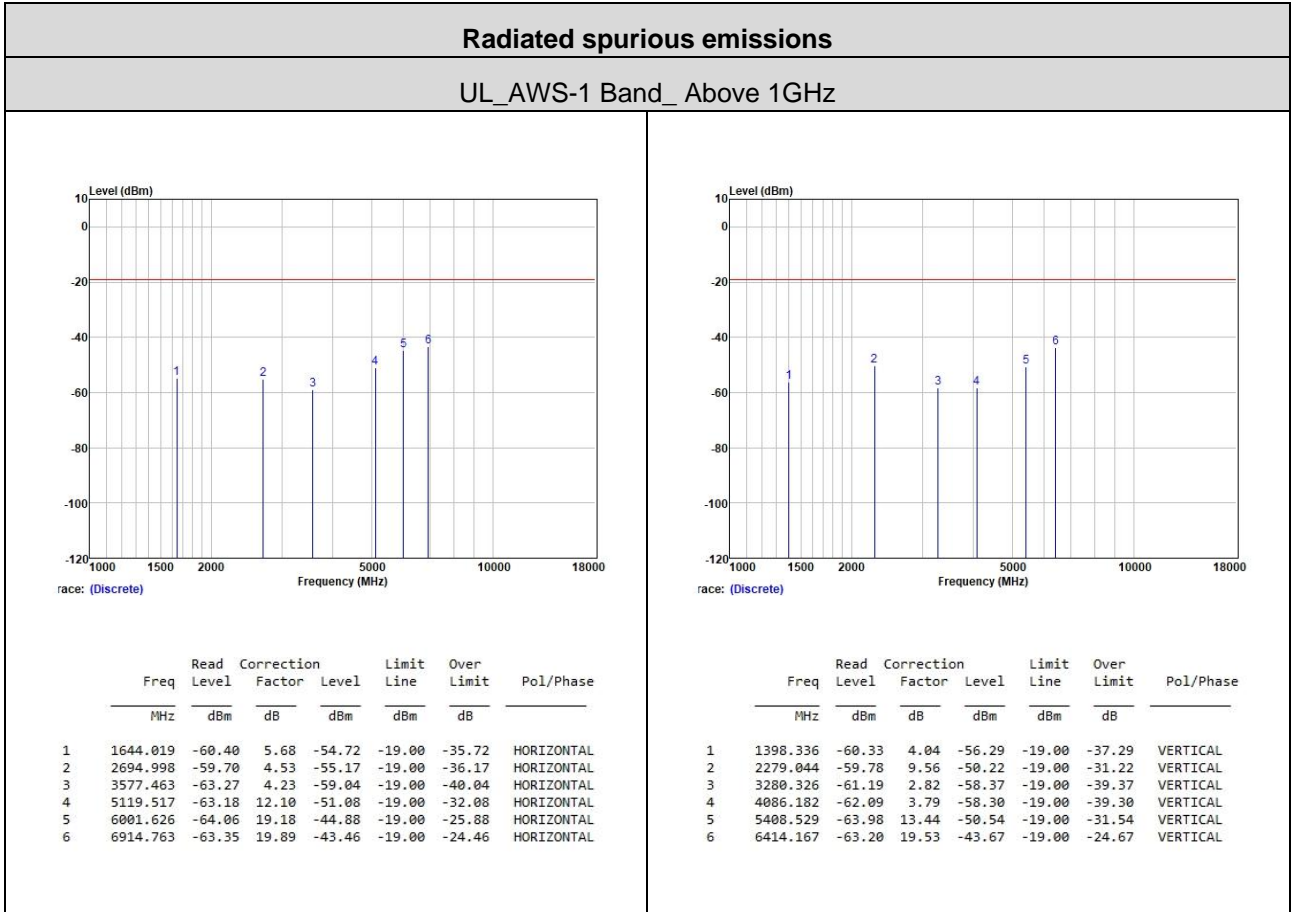
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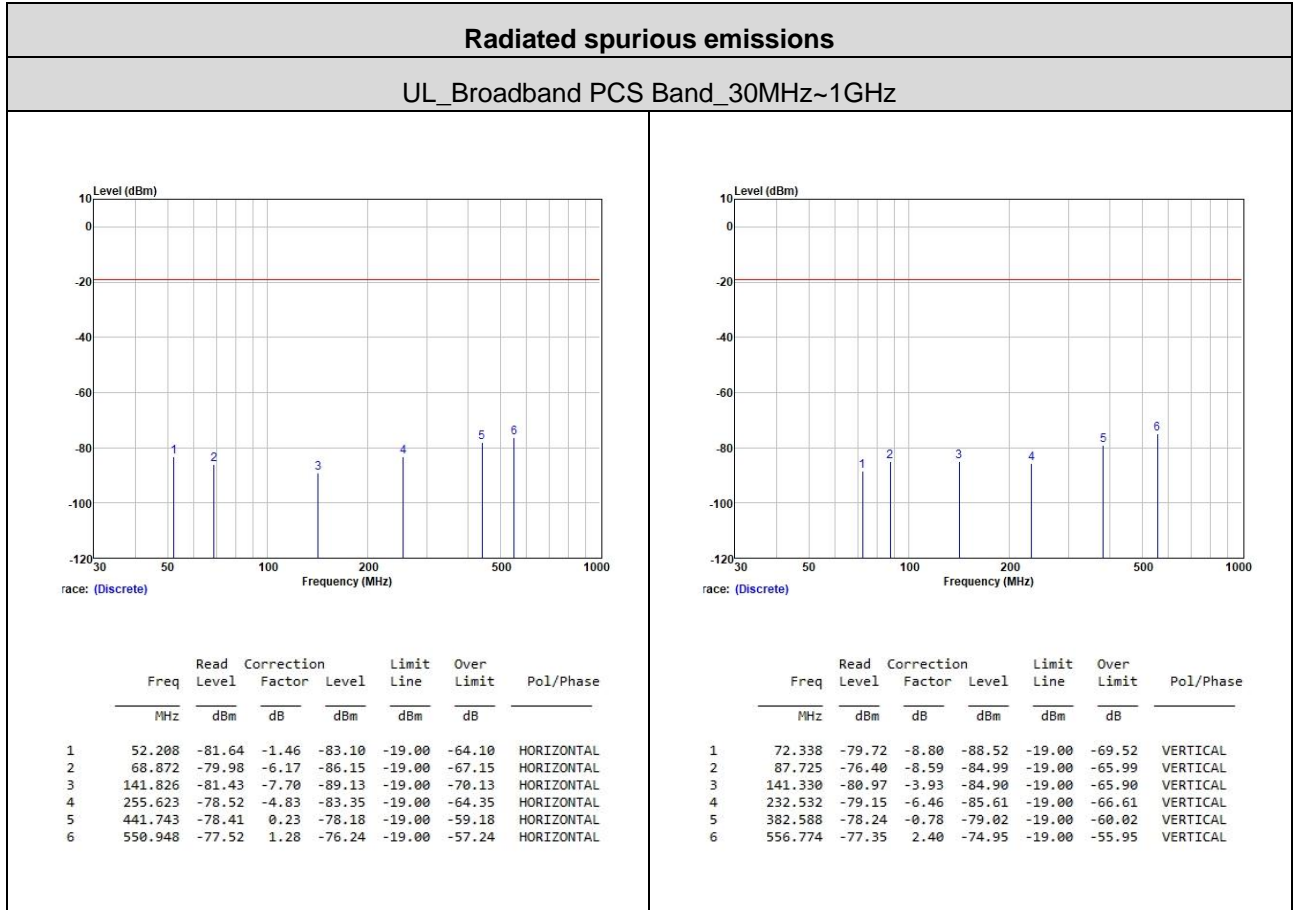
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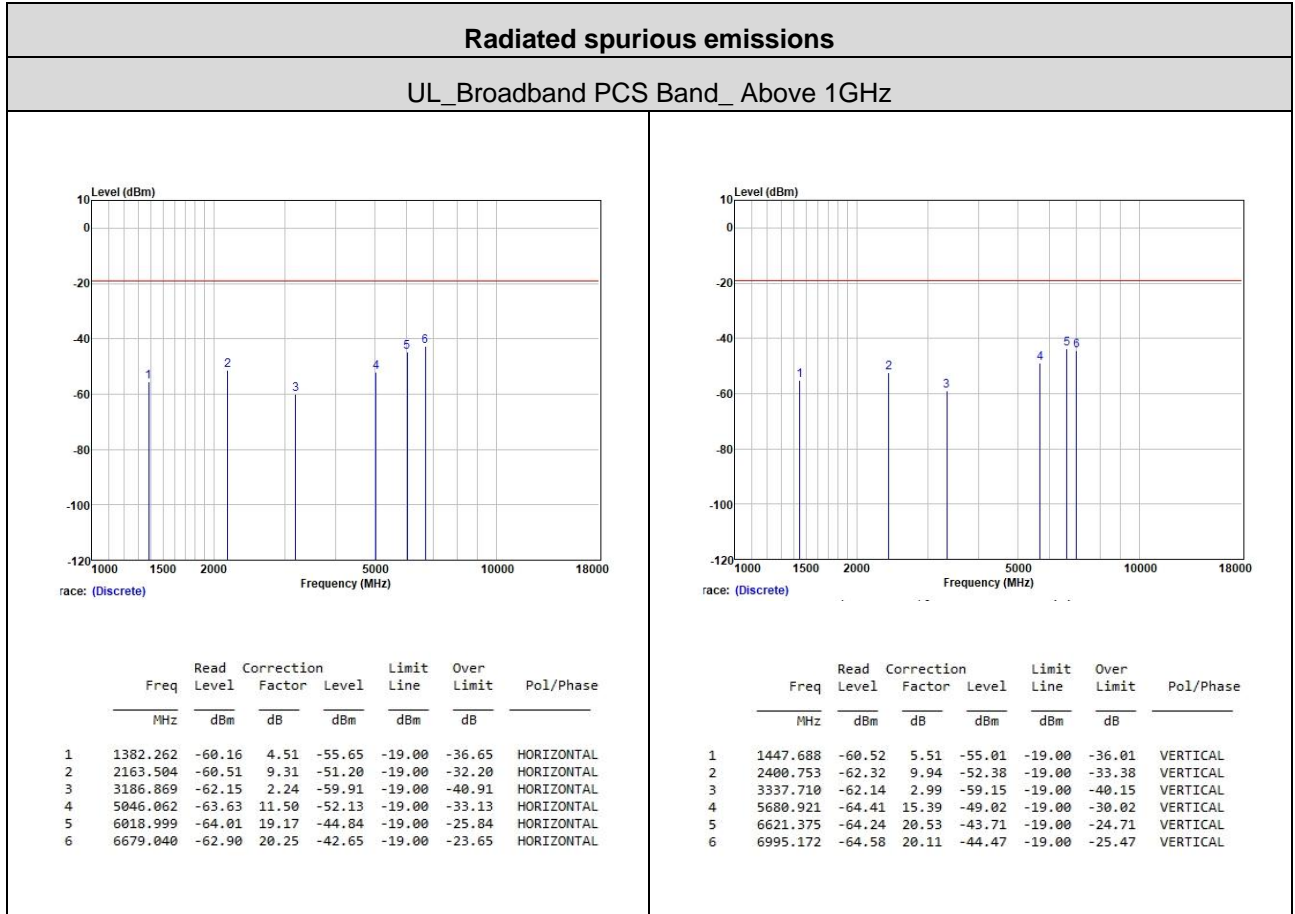
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Remark:

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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