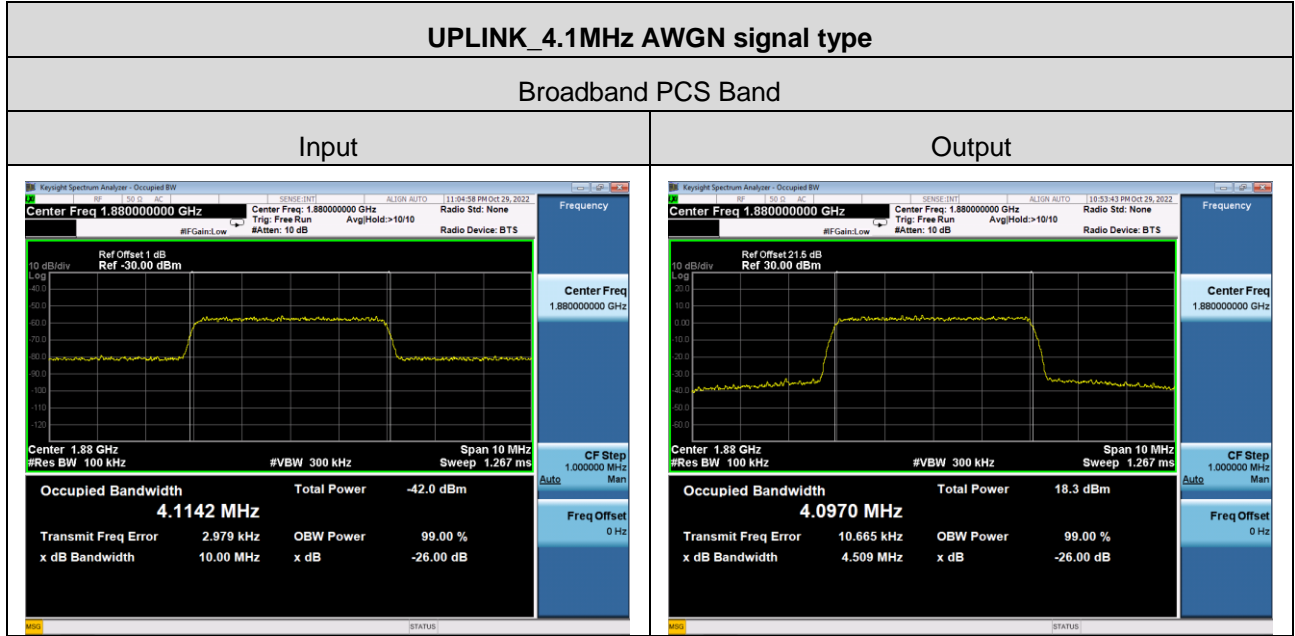


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11 Oscillation detection

Oscillation Restart Tests									
Path	Band	Detection Time (s)	Limit (s)	Oscillation Level (dBm)	Restart Time (s)	Limit (s)	Number of Restart	Limit (s)	Verdict
DOWNLINK	700MHz	0.230	≤1	-15.8	62.72	≥60	5	≤5	PASS
	Cellular	0.220		-29.5	62.00		5		PASS
	AWS-1	0.215		-14.6	62.16		5		PASS
	Broadband PCS	0.205		-20.3	62.52		5		PASS
UPLINK	Lower 700MHz	0.270	≤0.3	0.9	65.31	≥60	5	≤5	PASS
	Upper 700MHz	0.145		-2.4	65.79		5		PASS
	Cellular	0.145		-3.7	63.15		5		PASS
	AWS-1	0.200		-15.1	63.31		5		PASS
	Broadband PCS	0.200		-4.3	63.07		5		PASS



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Oscillation Mitigation or Shutdown							
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict	
DOWNLINK	700MHz	54.9	+5	4.8	≤12	PASS	
			+4	6.4		PASS	
			+3	8.9		PASS	
			+2	(shutdown)		PASS	
			+1			PASS	
			0			PASS	
			-1			PASS	
			-2			PASS	
			-3			PASS	
			-4			PASS	
	-5	PASS					
	Cellular	58.0	+5		3.2	≤12	PASS
			+4		5.4		PASS
			+3	6.0	PASS		
			+2	6.8	PASS		
			+1	7.1	PASS		
			0	9.7	PASS		
			-1	10.8	PASS		
			-2	(shutdown)	PASS		
			-3		PASS		
-4			PASS				
-5	PASS						



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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
DOWNLINK	AWS-1	60.8	+5	1.9	≤12	PASS
			+4	3.7		PASS
			+3	6.3		PASS
			+2	10.8		PASS
			+1	11.3		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
	Broadband PCS	52.0	+5	5.5	≤12	PASS
			+4	7.1		PASS
			+3	7.5		PASS
			+2	8.7		PASS
			+1	10.2		PASS
			0	10.7		PASS
			-1	11.3		PASS
			-2	(shutdown)		PASS
			-3			PASS
			-4			PASS
-5	PASS					



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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Lower 700MHz	58.9	+5	2.6	≤12	PASS
			+4	5.8		PASS
			+3	7.4		PASS
			+2	8.9		PASS
			+1	10.2		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
	Upper 700MHz	58.7	+5	4.3	≤12	PASS
			+4	6.1		PASS
			+3	6.9		PASS
			+2	7.6		PASS
			+1	9.4		PASS
			0	10.3		PASS
			-1	11.1		PASS
			-2	(shutdown)		PASS
			-3			PASS
			-4			PASS
-5	PASS					



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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Cellular	58.9	+5	3.3	≤12	PASS
			+4	5.1		PASS
			+3	5.6		PASS
			+2	7.9		PASS
			+1	10.1		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
	AWS-1	62.4	+5	3.2	≤12	PASS
			+4	4.4		PASS
			+3	4.9		PASS
			+2	5.8		PASS
			+1	7.1		PASS
			0	7.7		PASS
			-1	9.0		PASS
			-2	9.3		PASS
			-3	(shutdown)		PASS
			-4			PASS
-5	PASS					



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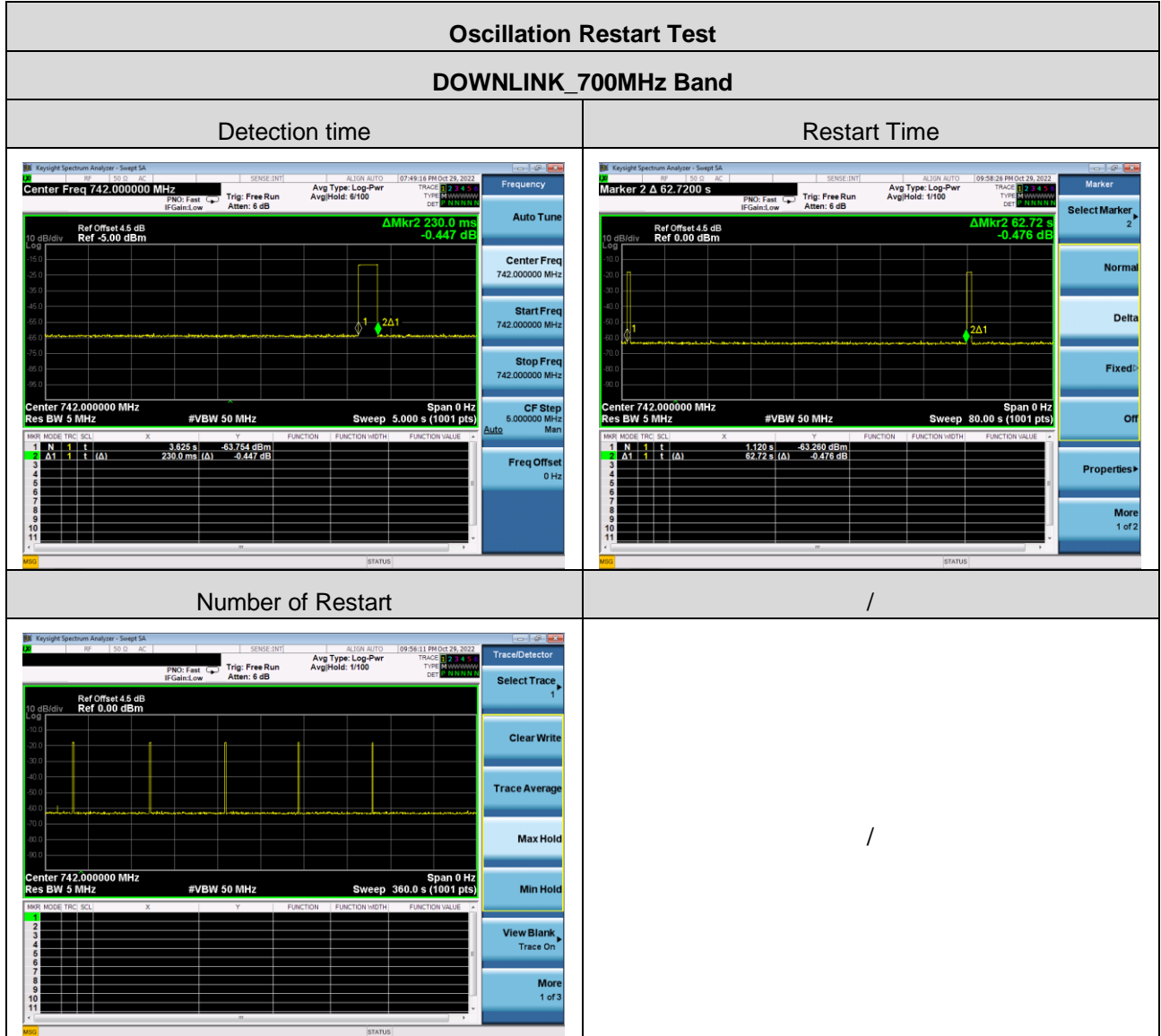
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FCC ID: 2AYTR-SZZJ2

Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Broadband PCS	61.0	+5	4.4	≤12	PASS
			+4	5.1		PASS
			+3	5.8		PASS
			+2	6.8		PASS
			+1	9.2		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS

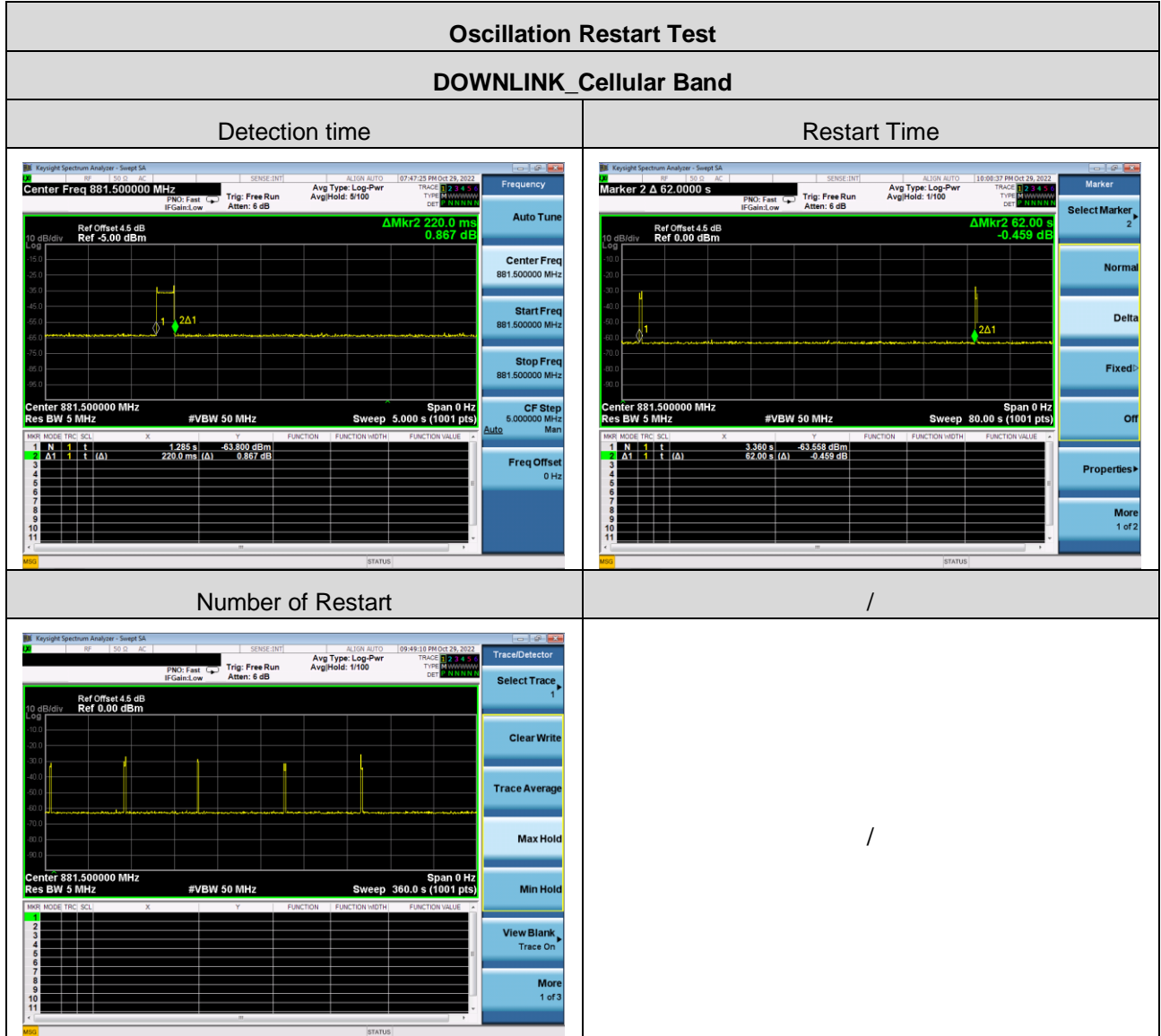


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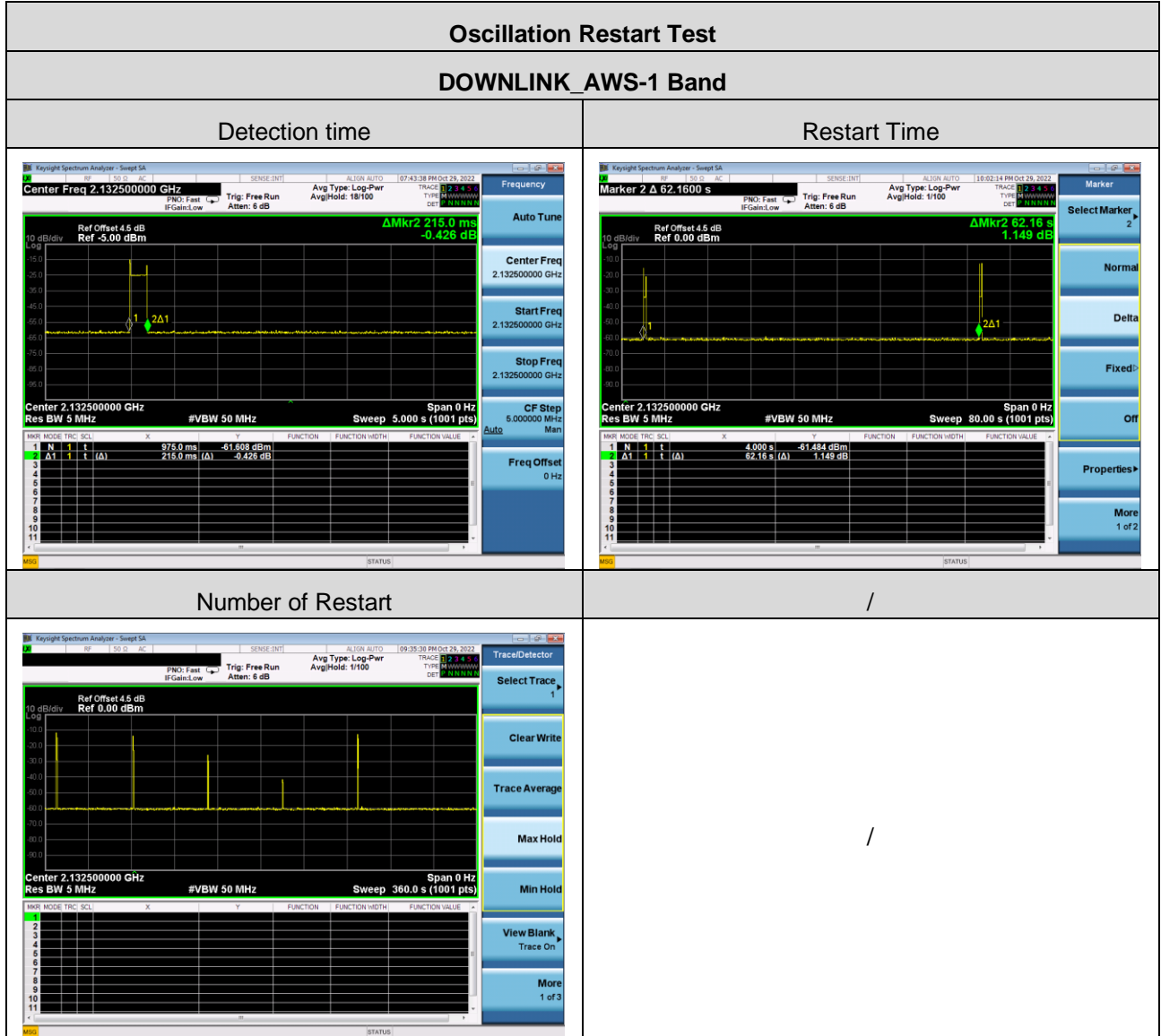




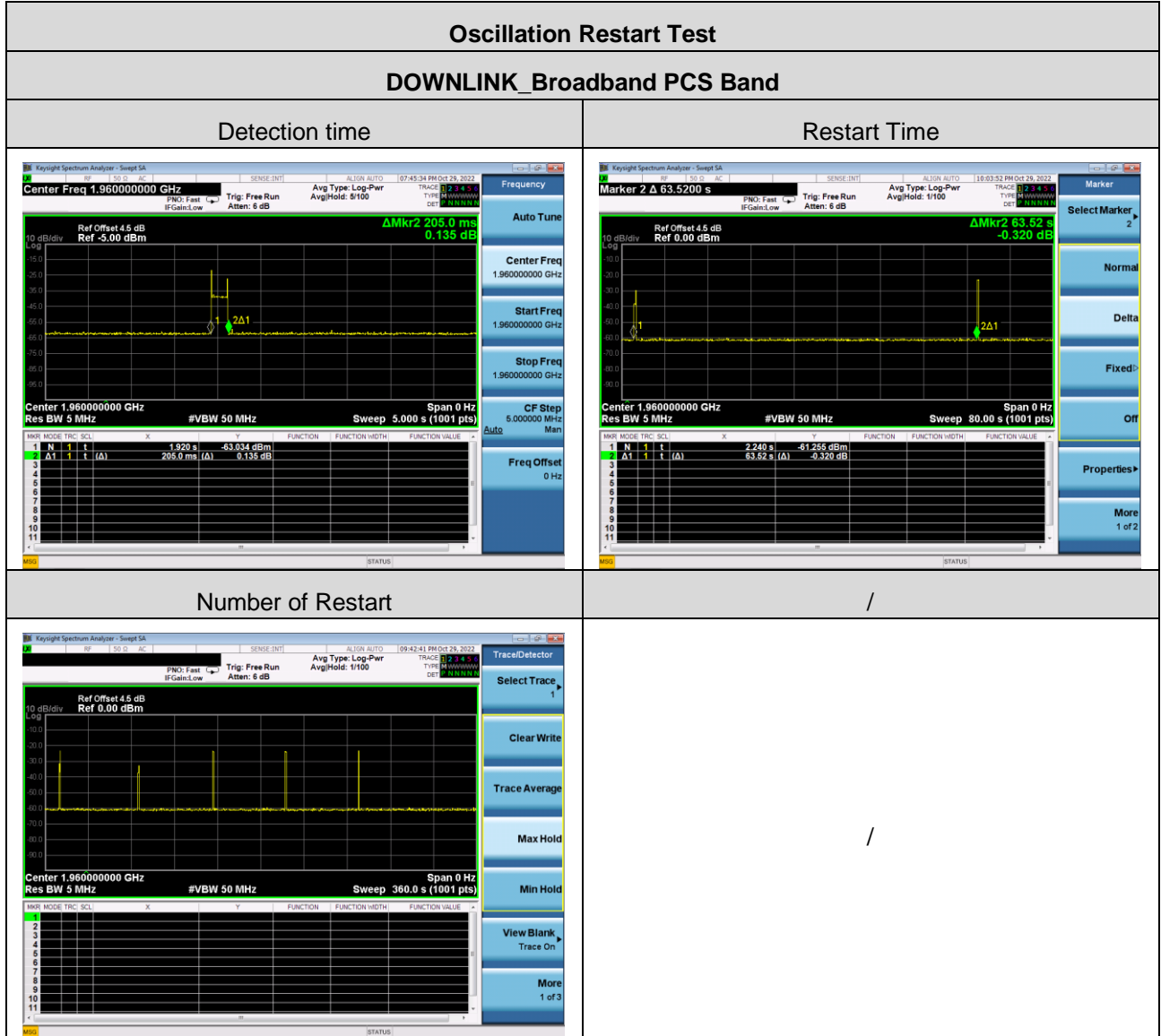
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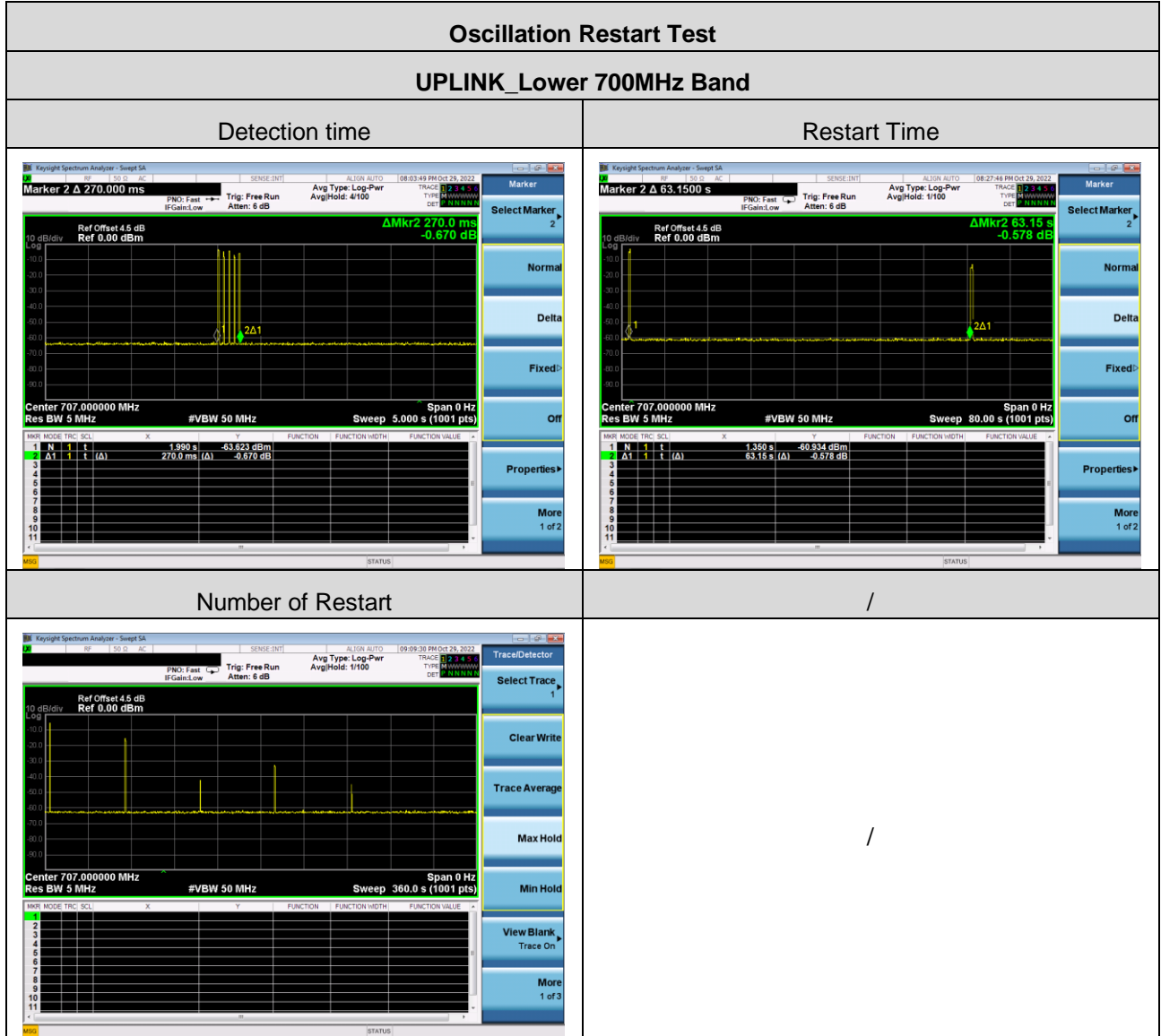
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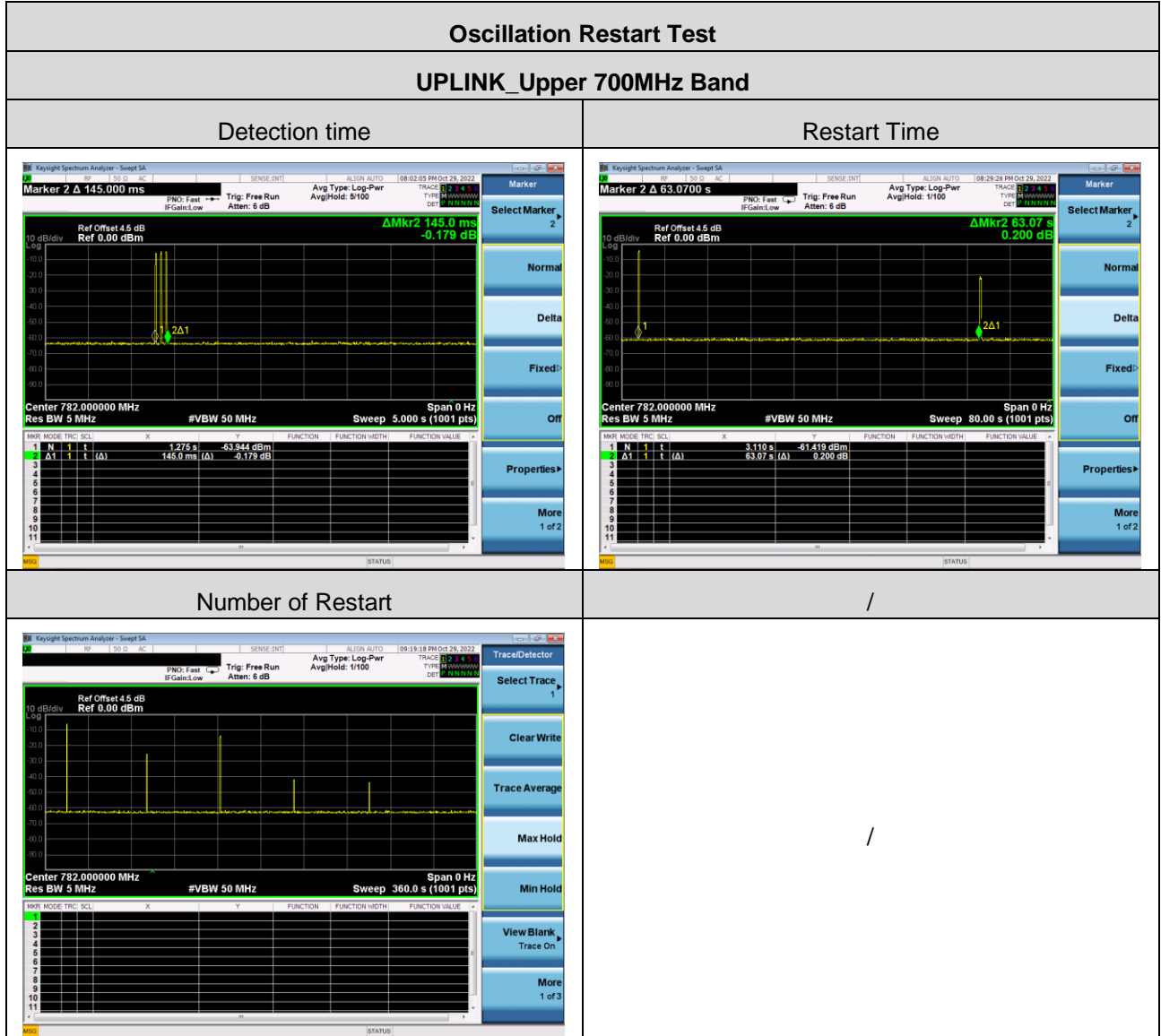
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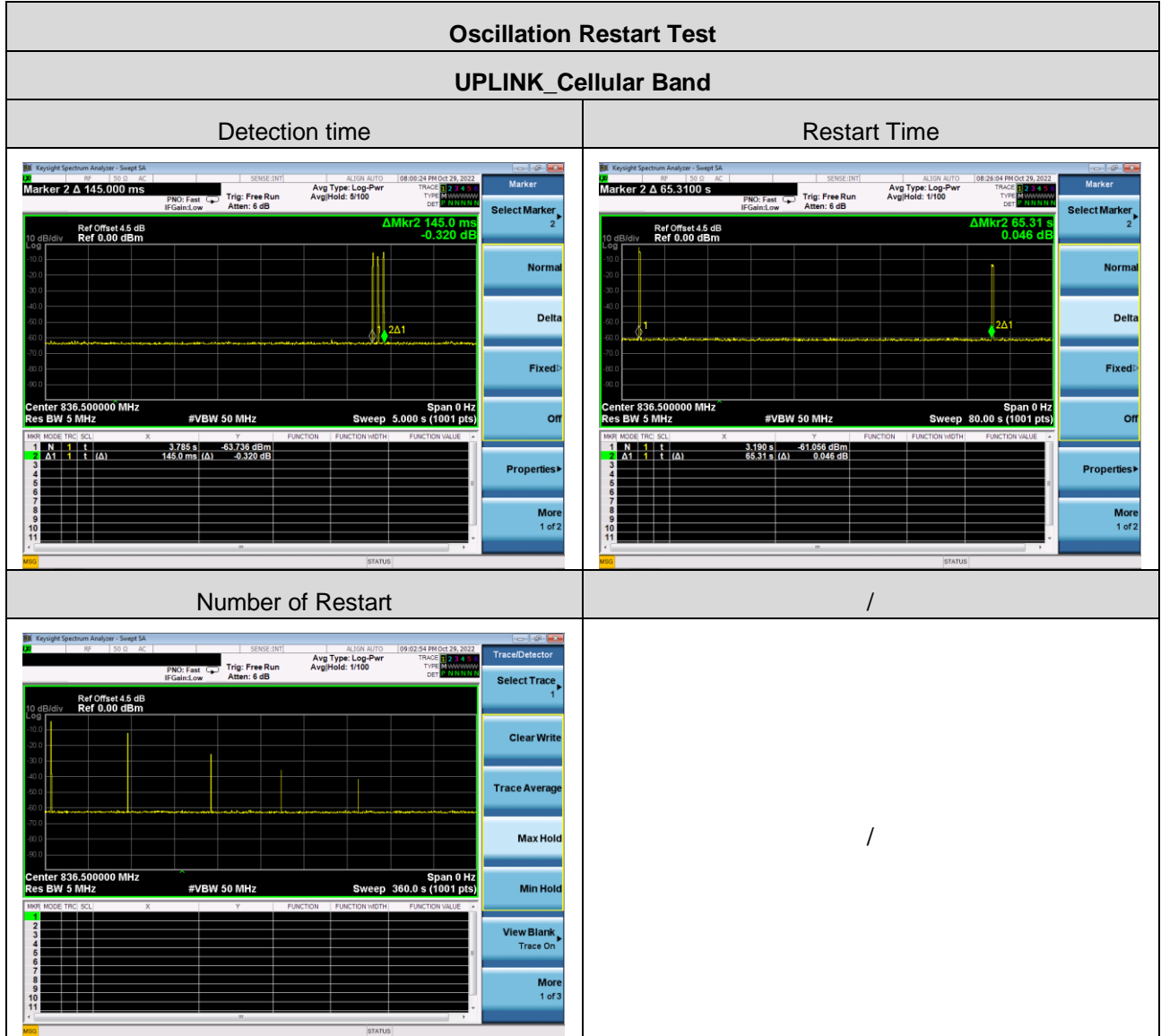
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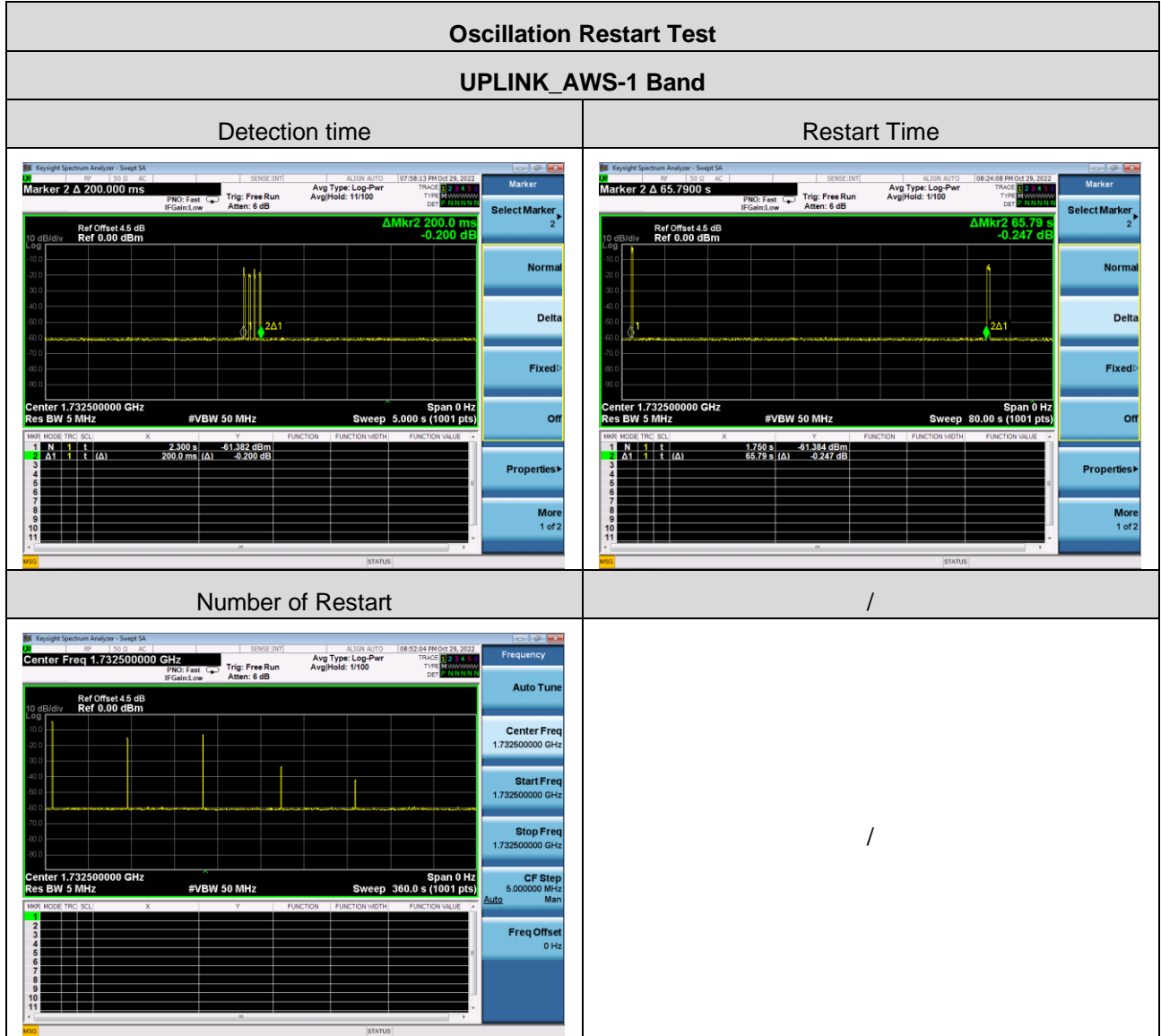
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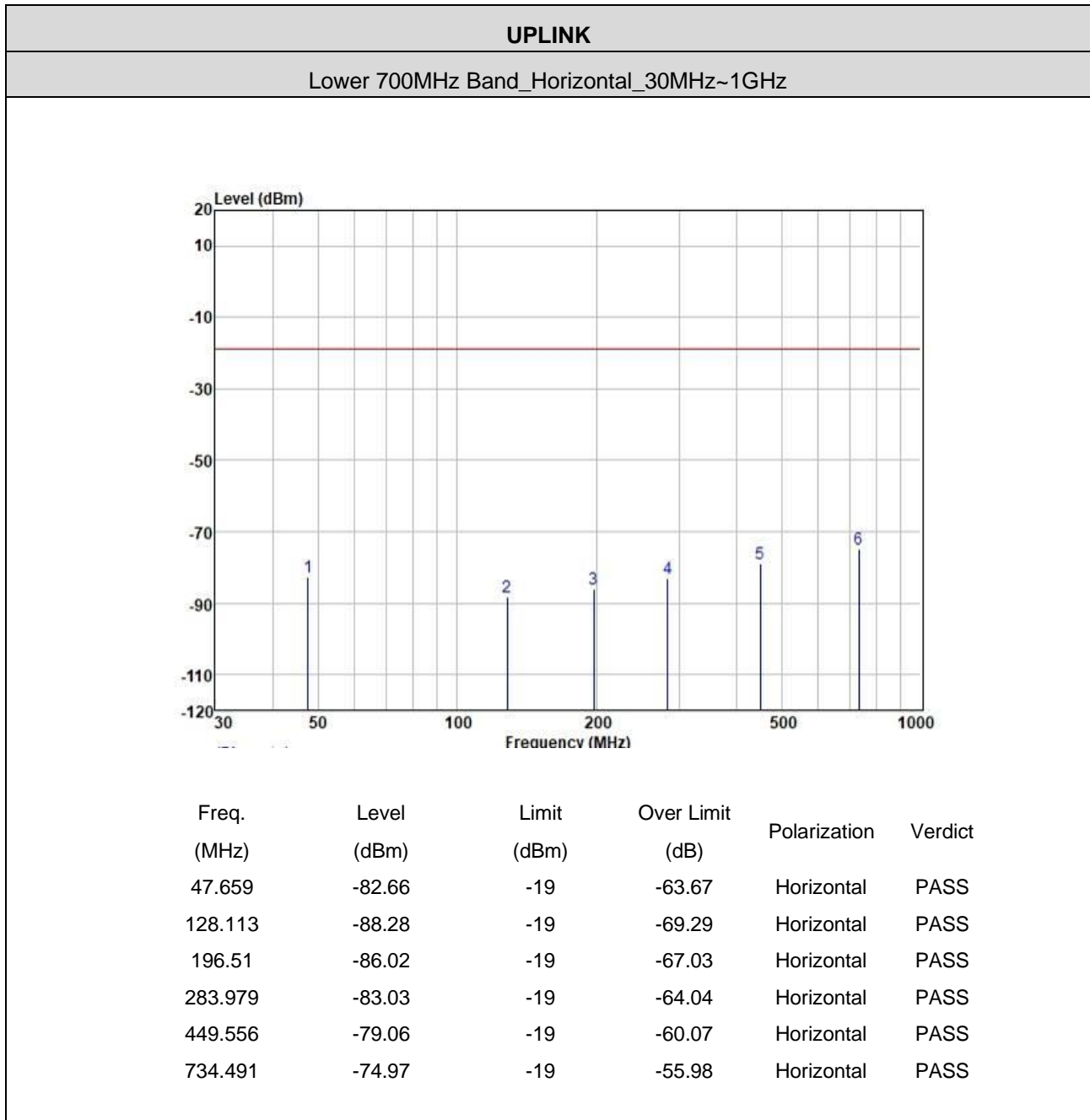


Oscillation Restart Test																																																							
UPLINK_Broadband PCS Band																																																							
Detection time	Restart Time																																																						
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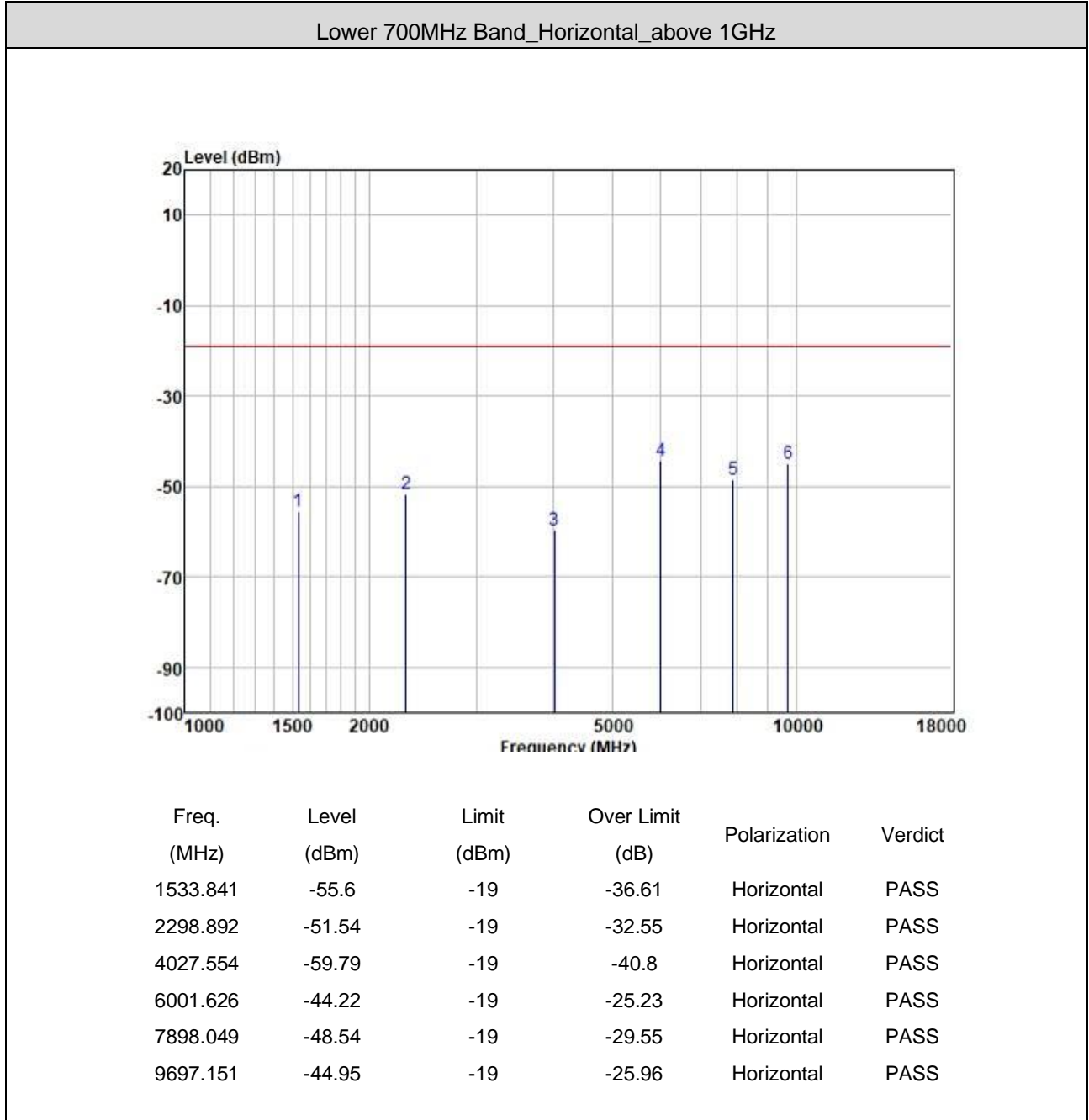


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### 12 Radiated spurious emissions

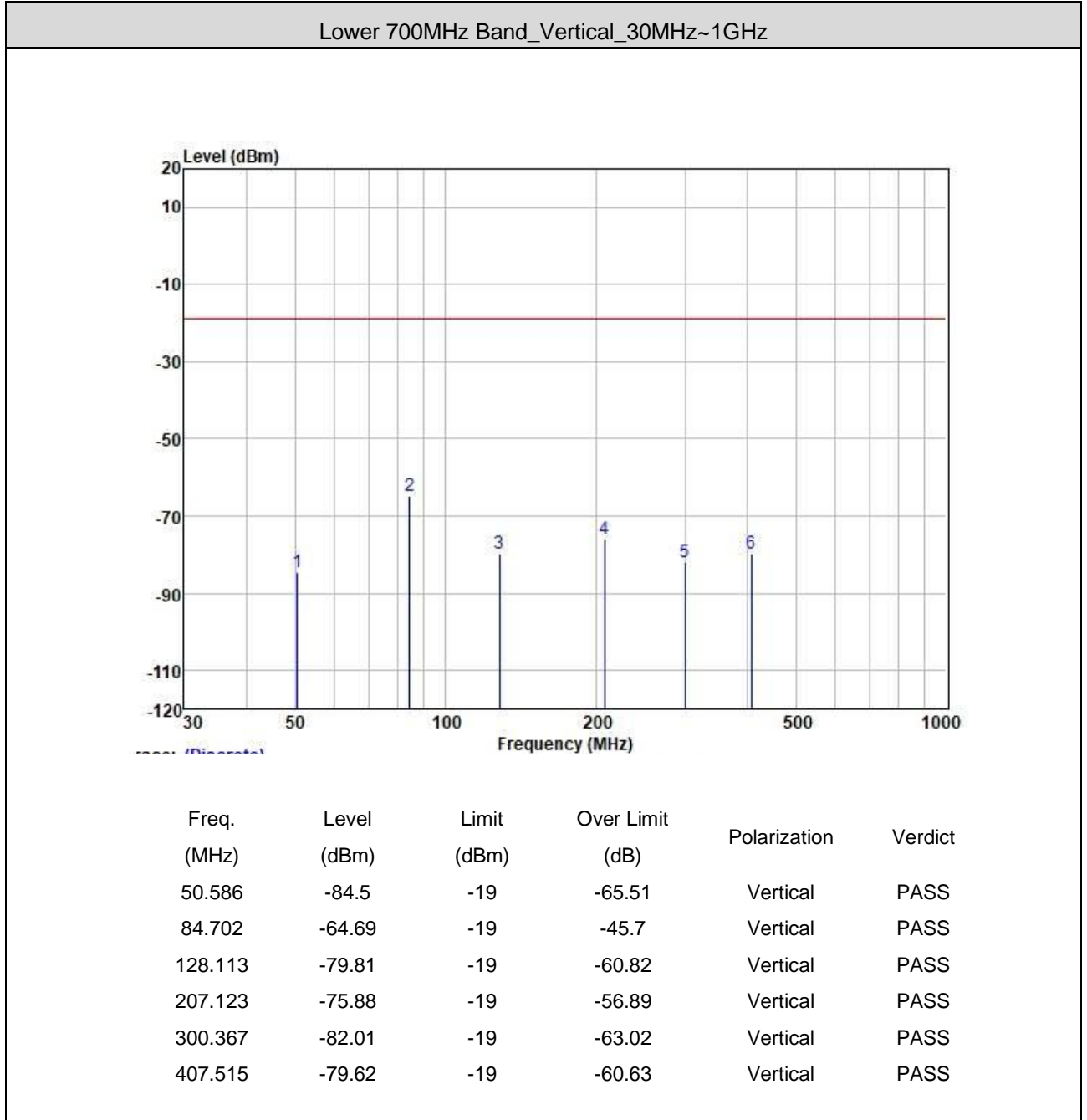


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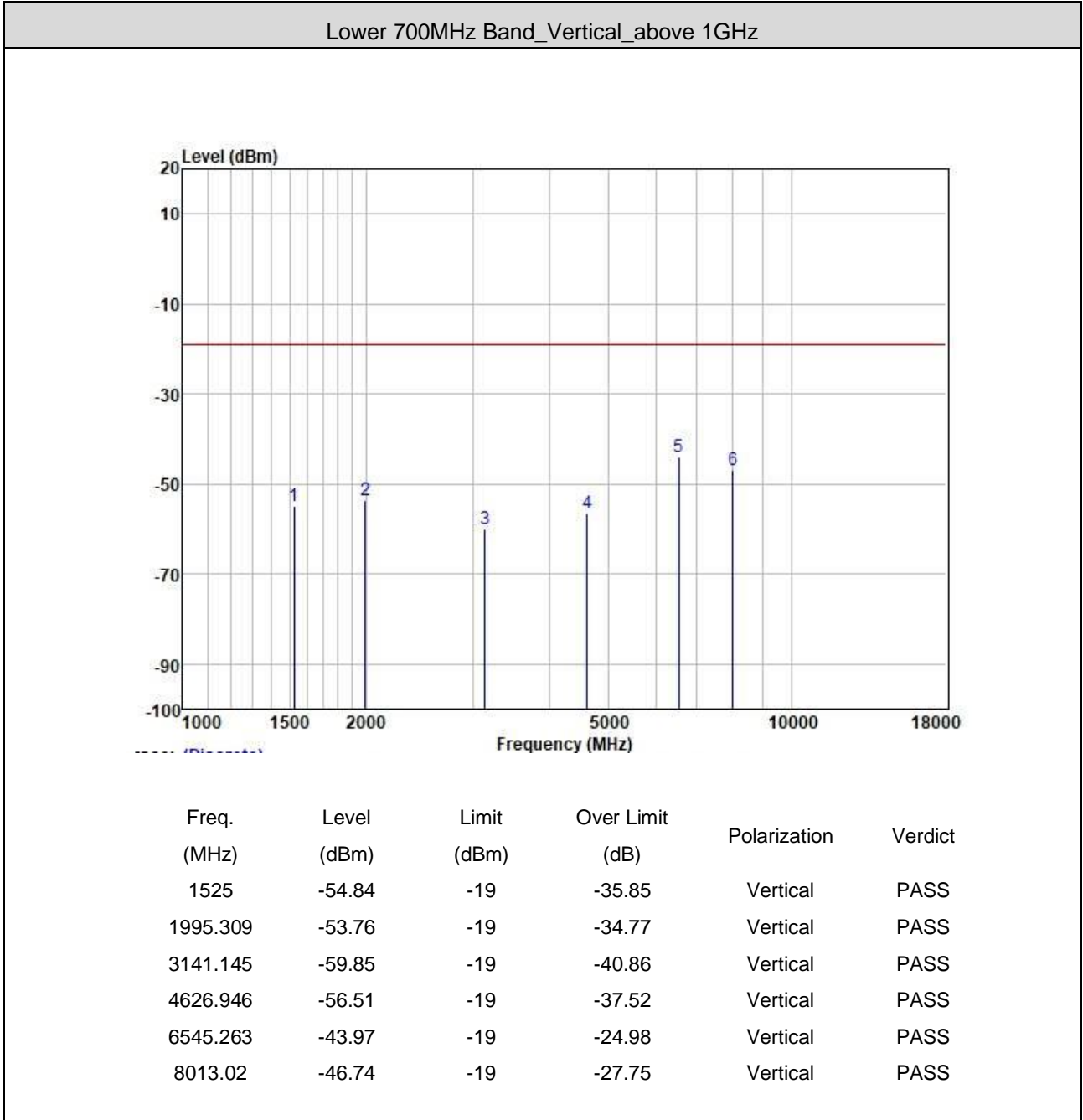
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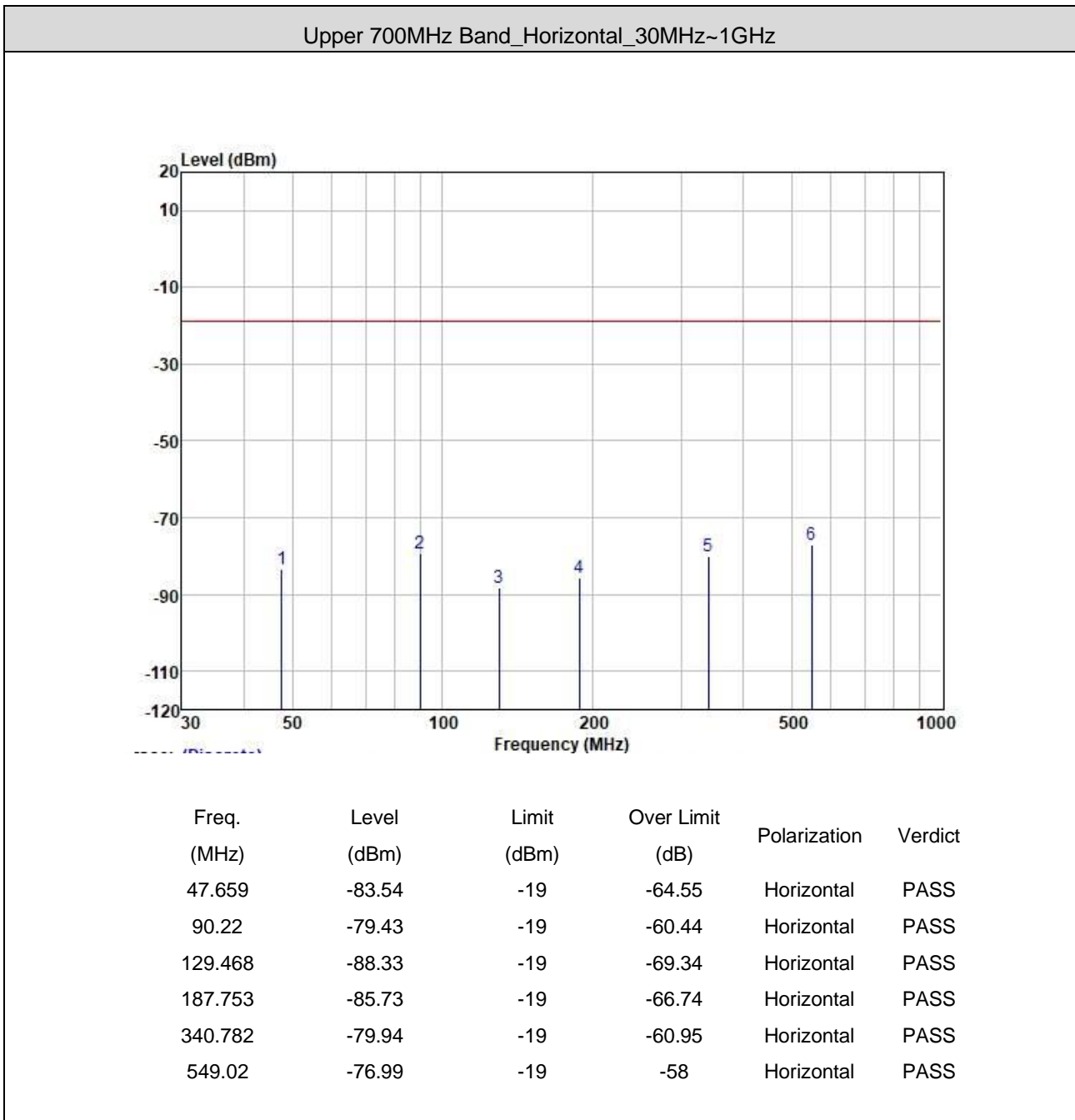
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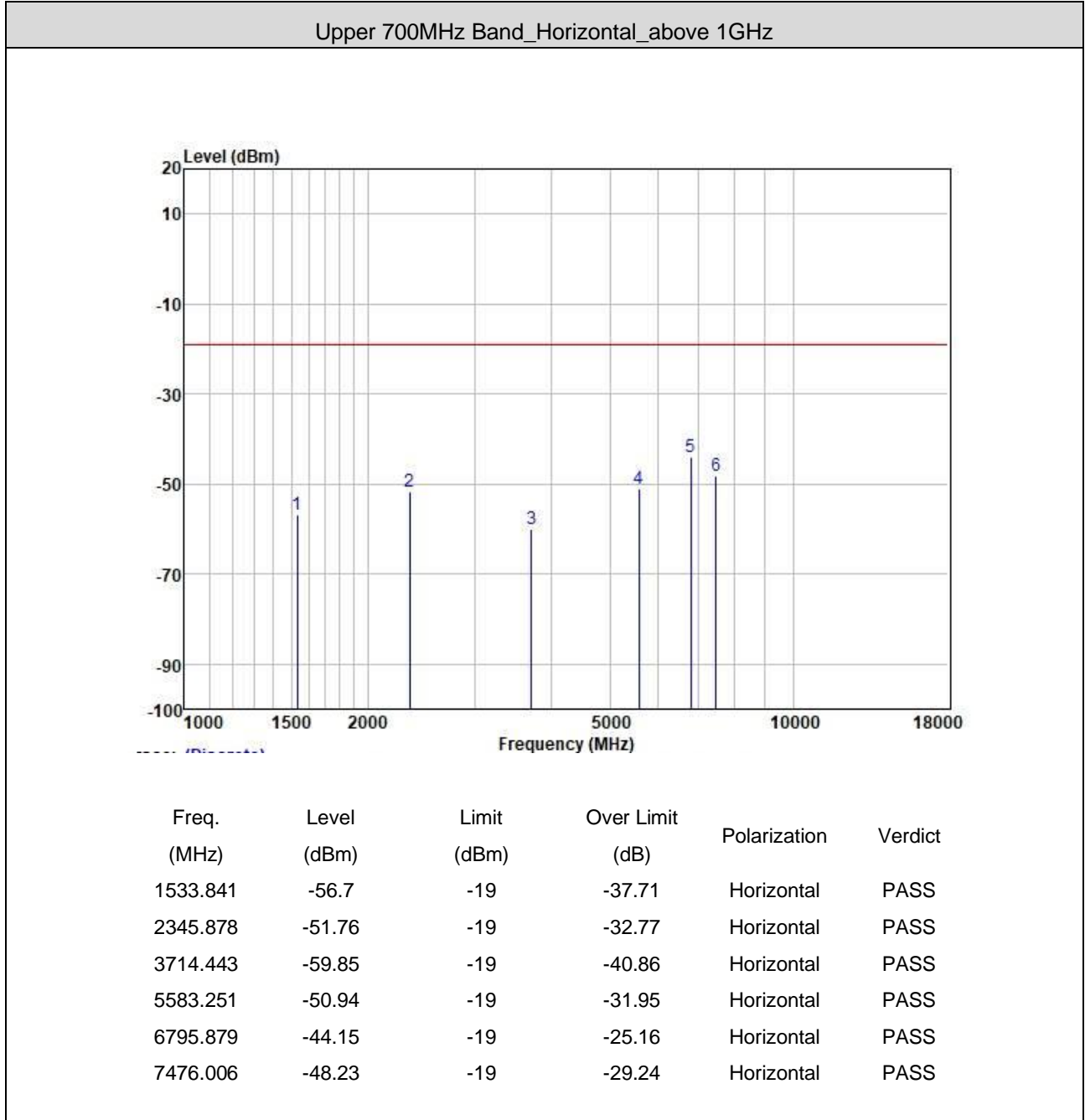


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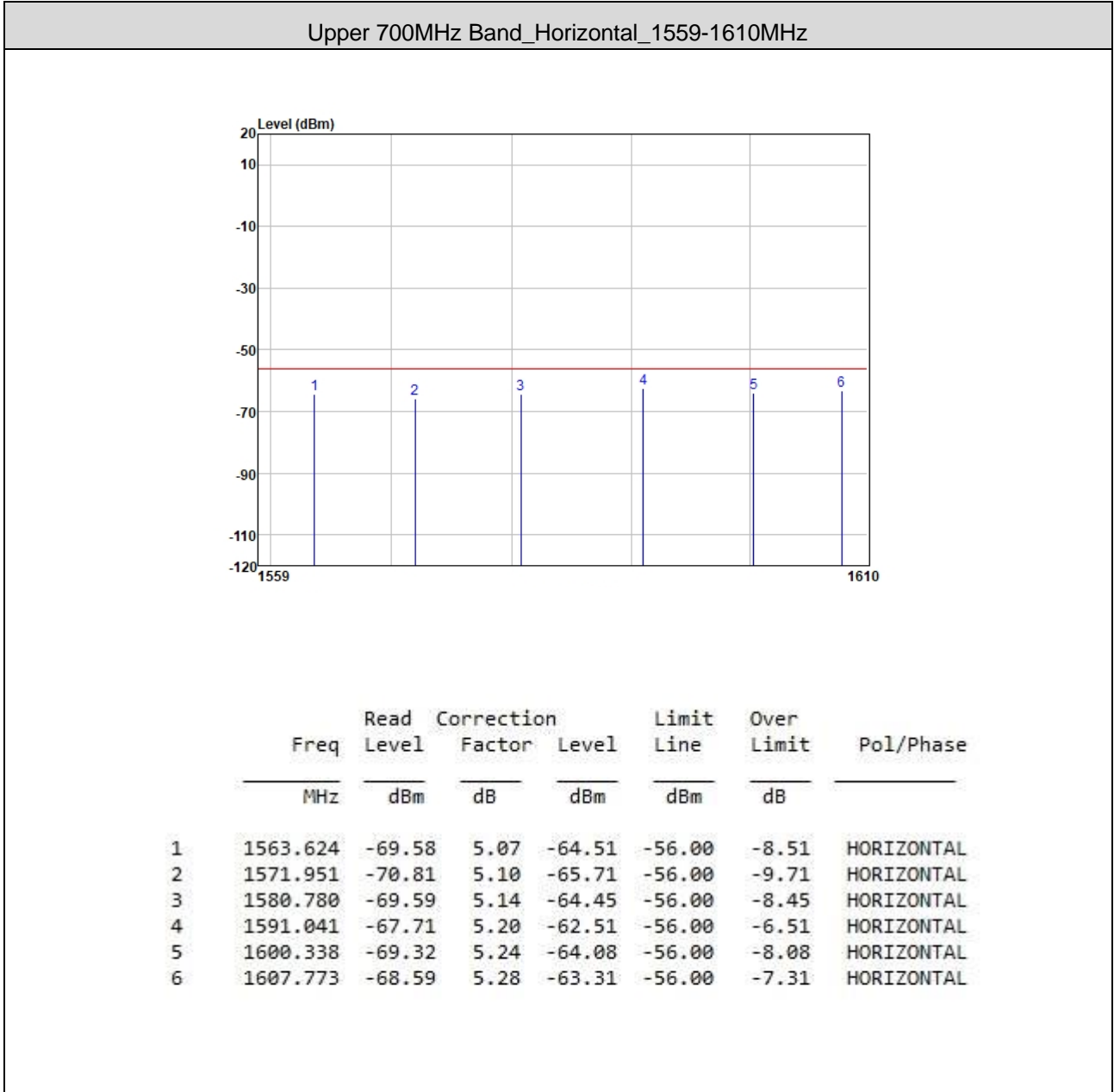


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	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1563.624	-69.58	5.07	-64.51	-56.00	-8.51	HORIZONTAL
2	1571.951	-70.81	5.10	-65.71	-56.00	-9.71	HORIZONTAL
3	1580.780	-69.59	5.14	-64.45	-56.00	-8.45	HORIZONTAL
4	1591.041	-67.71	5.20	-62.51	-56.00	-6.51	HORIZONTAL
5	1600.338	-69.32	5.24	-64.08	-56.00	-8.08	HORIZONTAL
6	1607.773	-68.59	5.28	-63.31	-56.00	-7.31	HORIZONTAL

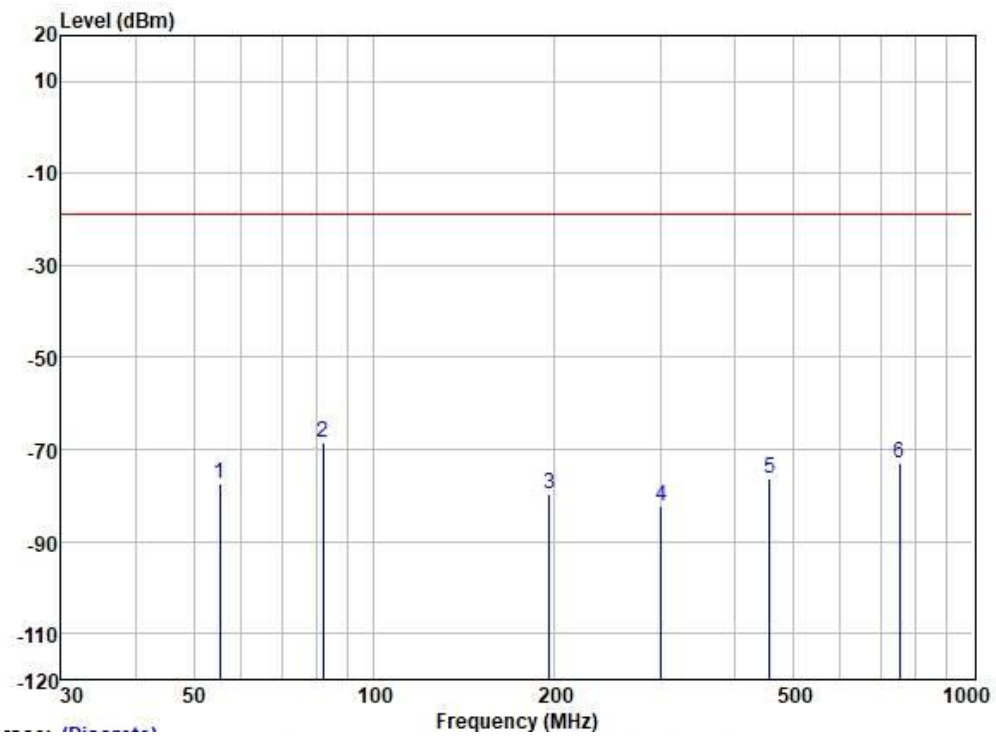


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### Upper 700MHz Band\_Vertical\_30MHz~1GHz

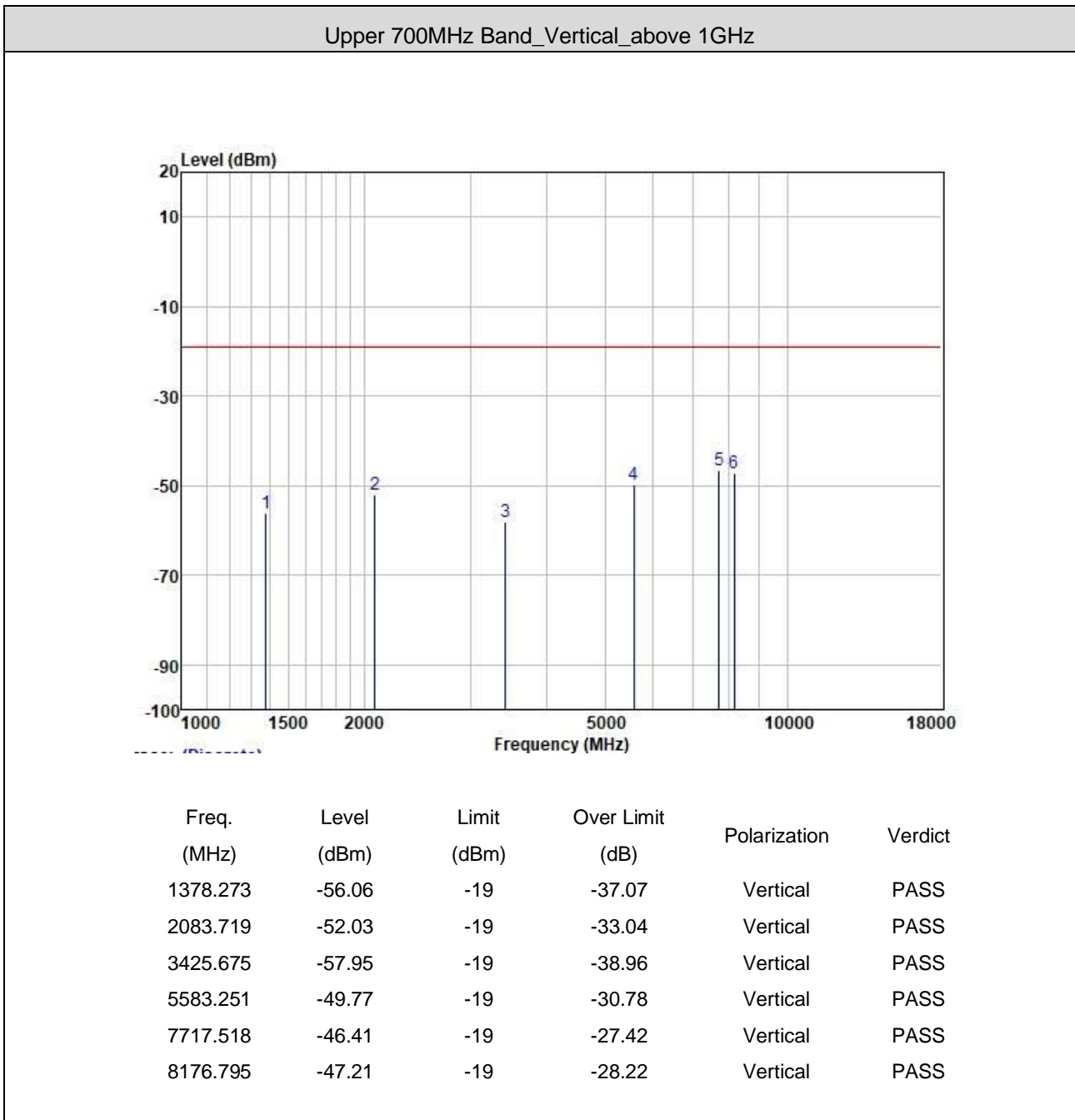


Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
55.221	-77.45	-19	-58.46	Vertical	PASS
82.071	-68.55	-19	-49.56	Vertical	PASS
195.822	-79.67	-19	-60.68	Vertical	PASS
301.422	-82.46	-19	-63.47	Vertical	PASS
457.507	-76.49	-19	-57.5	Vertical	PASS
752.743	-72.94	-19	-53.95	Vertical	PASS

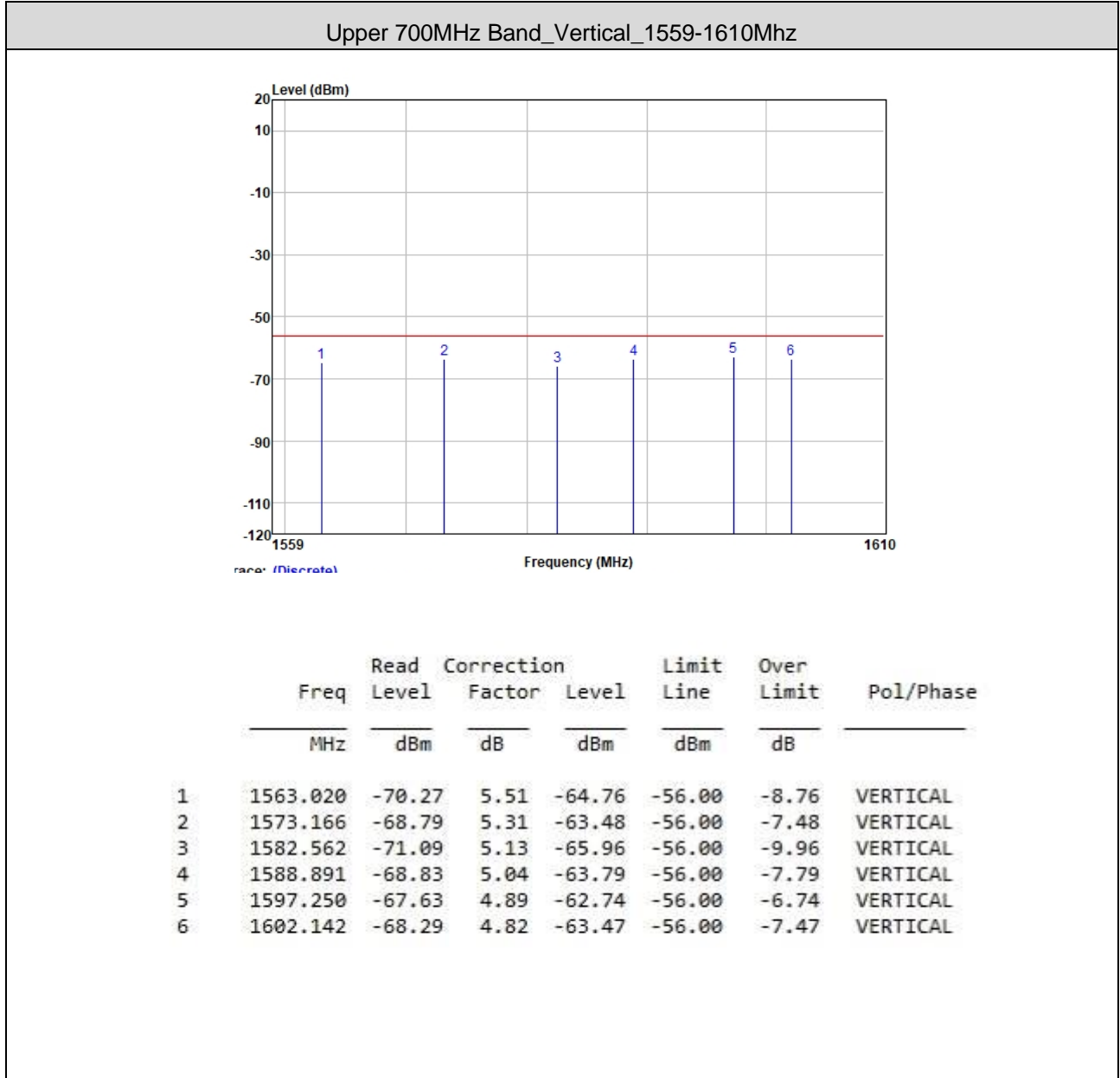


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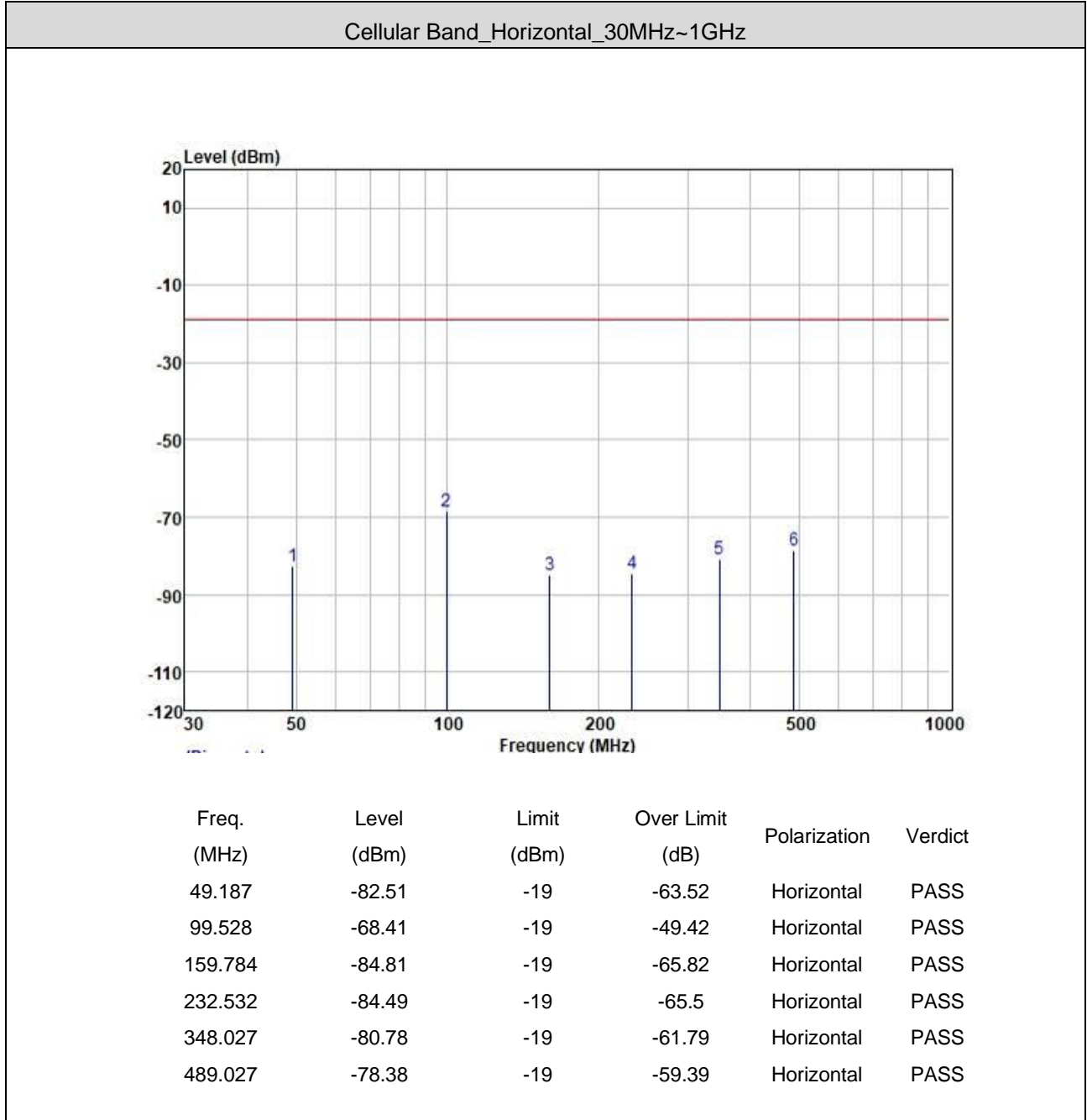


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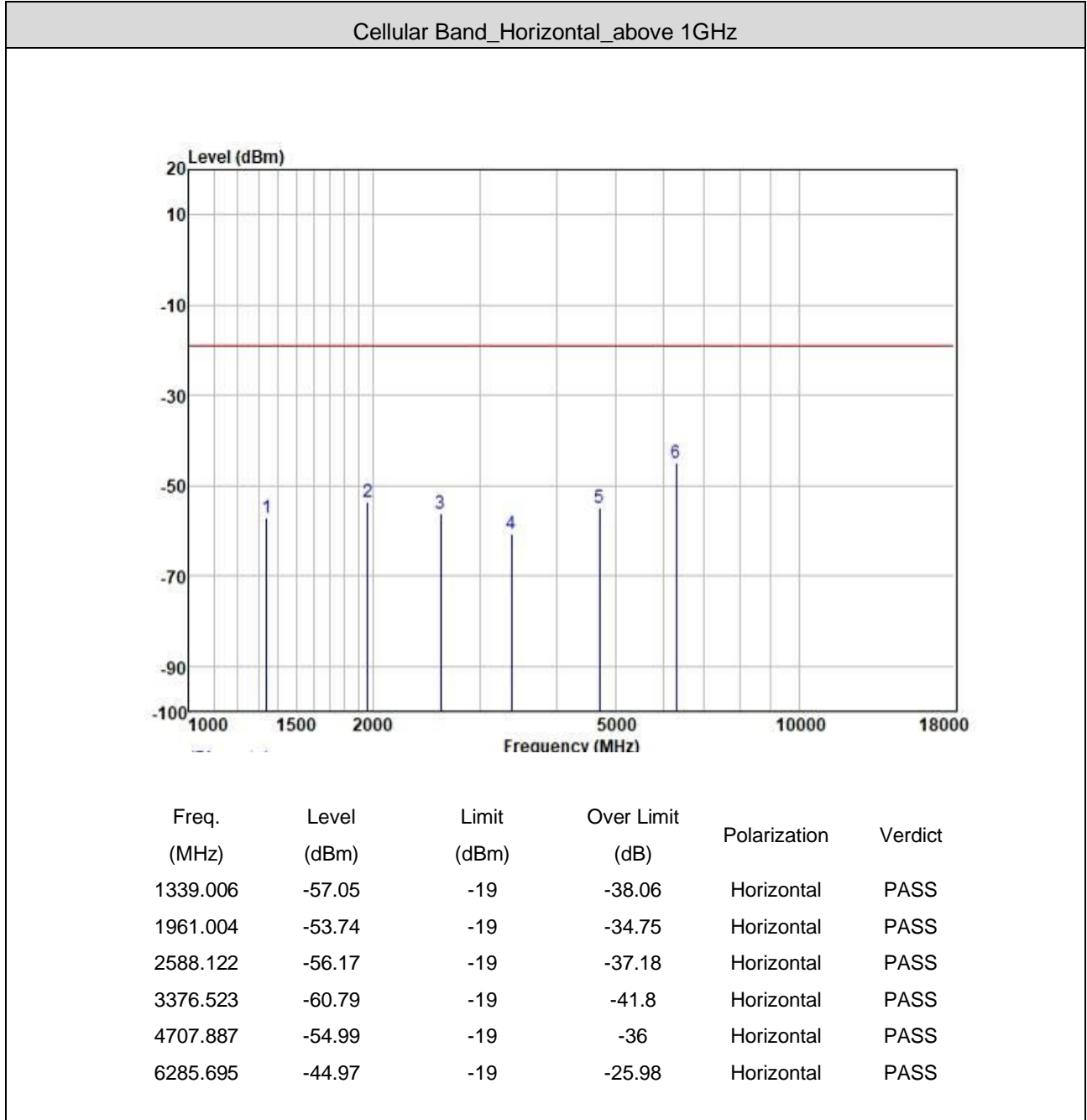


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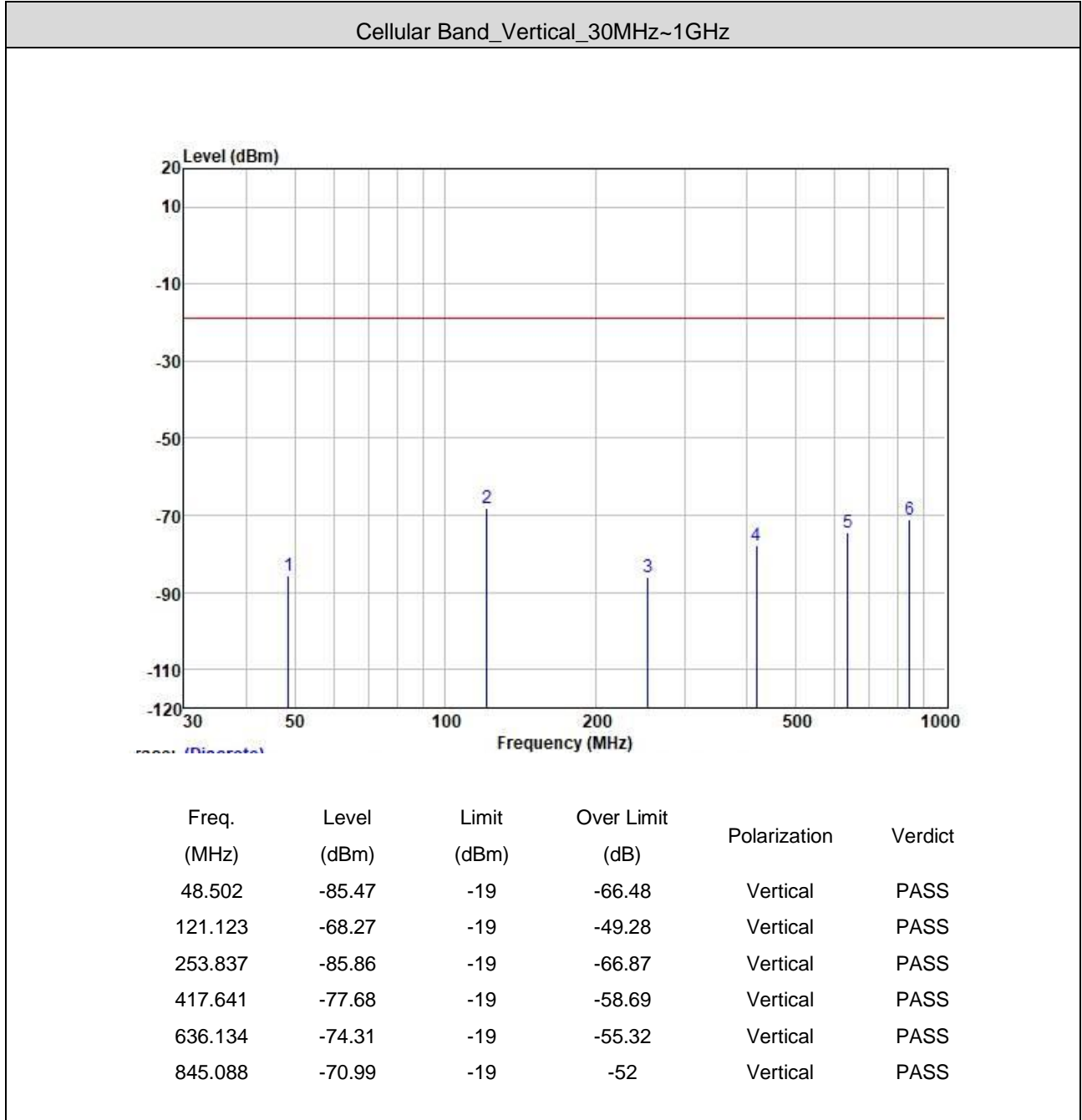


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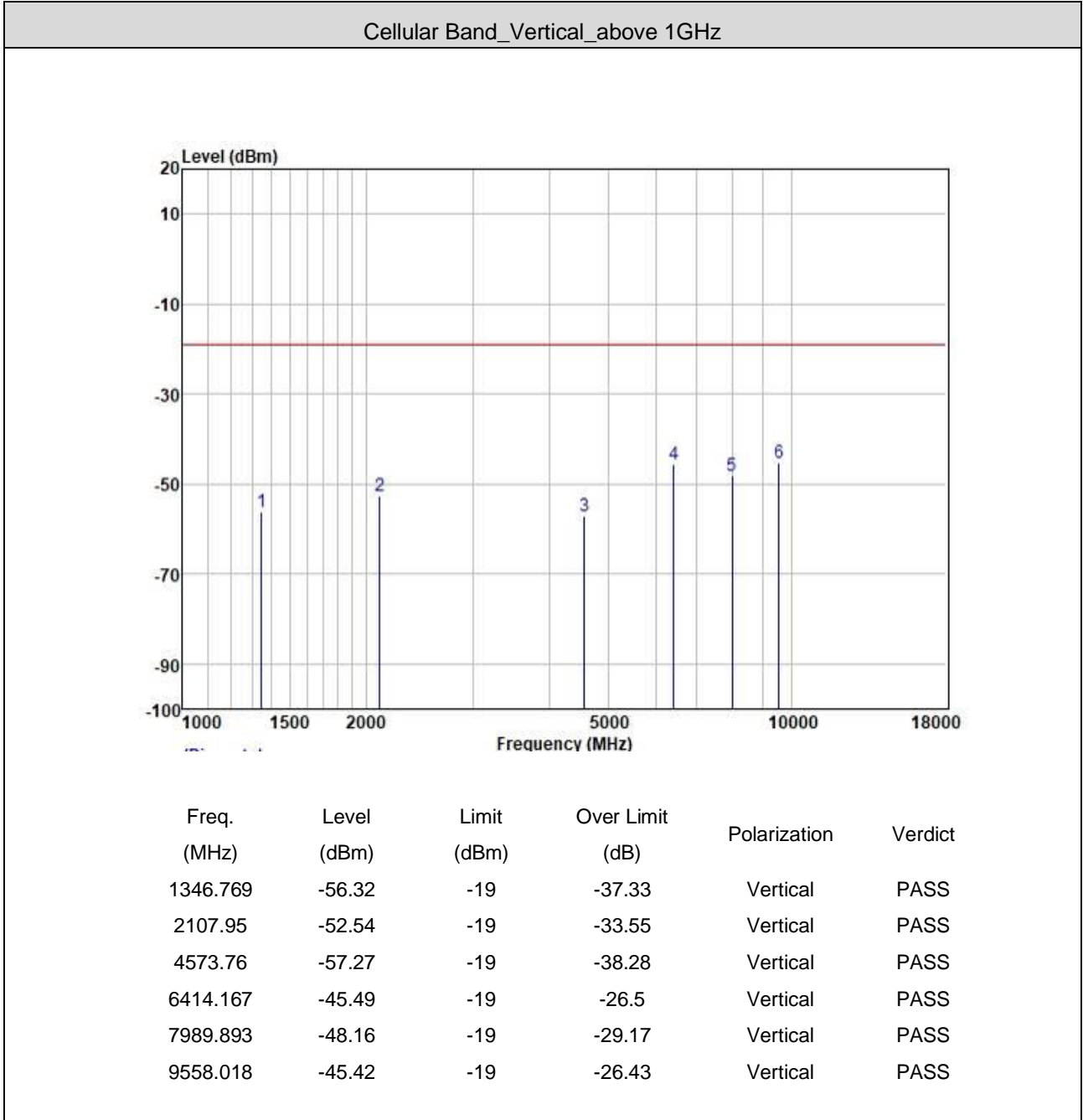


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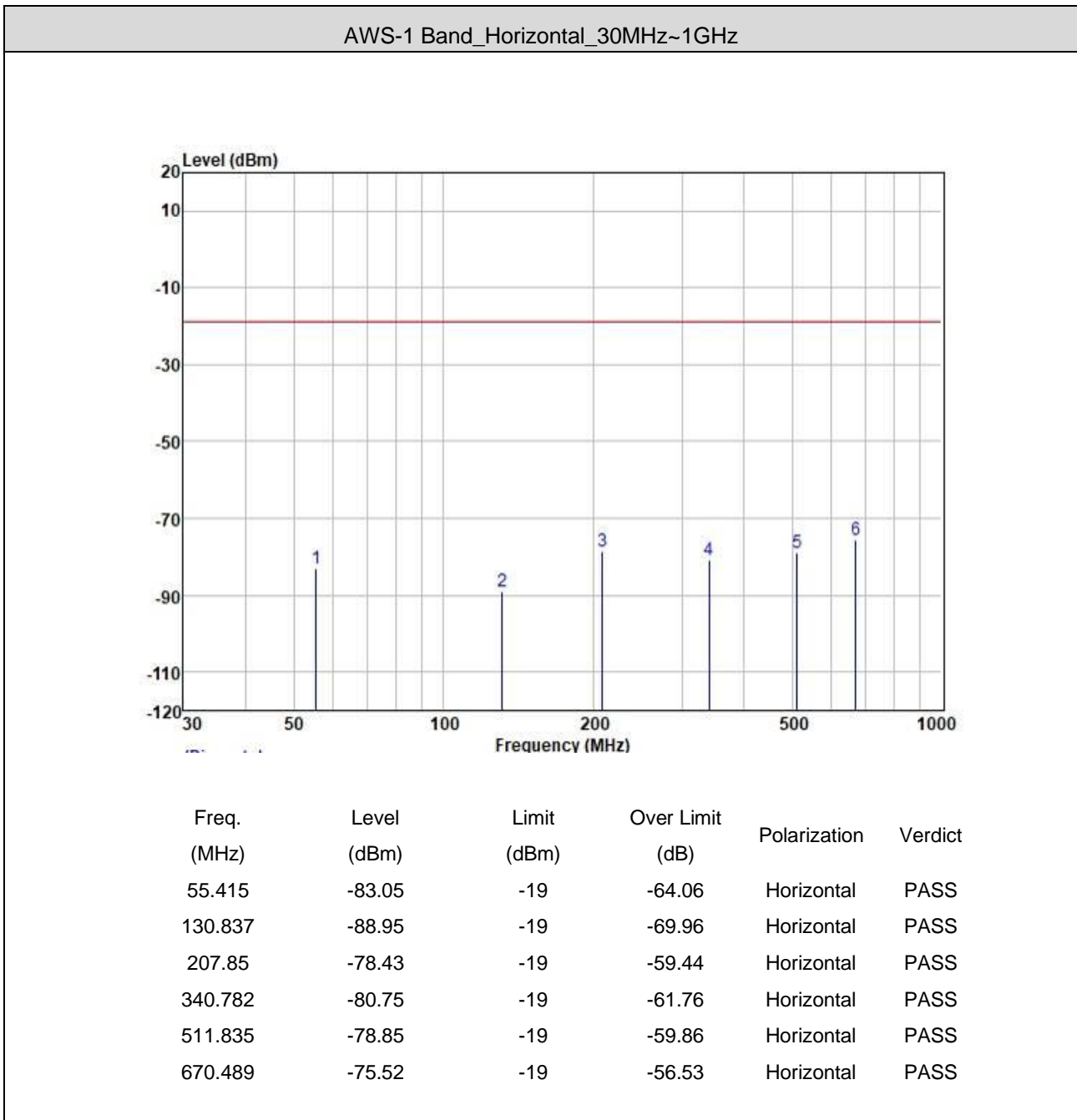


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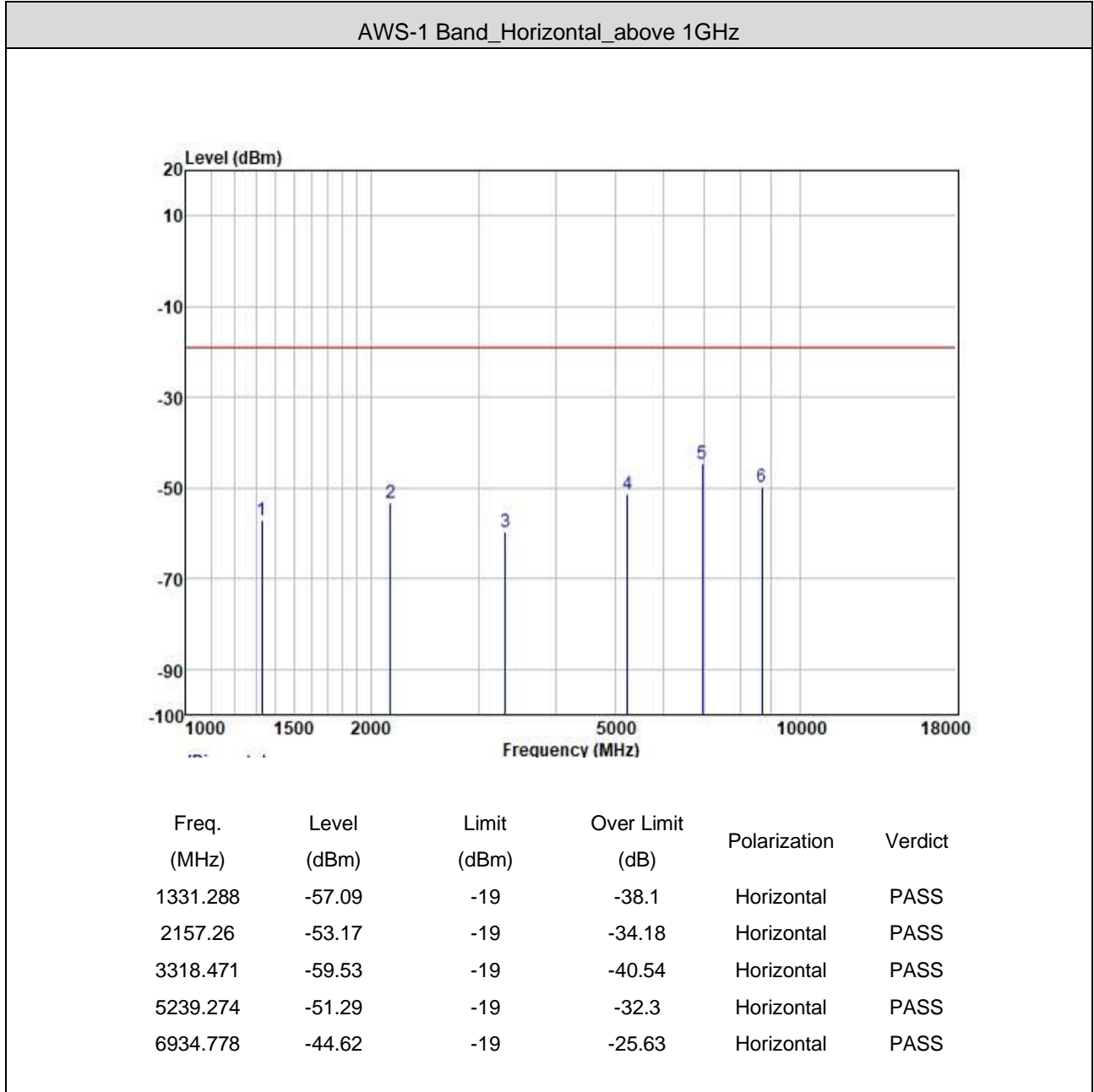
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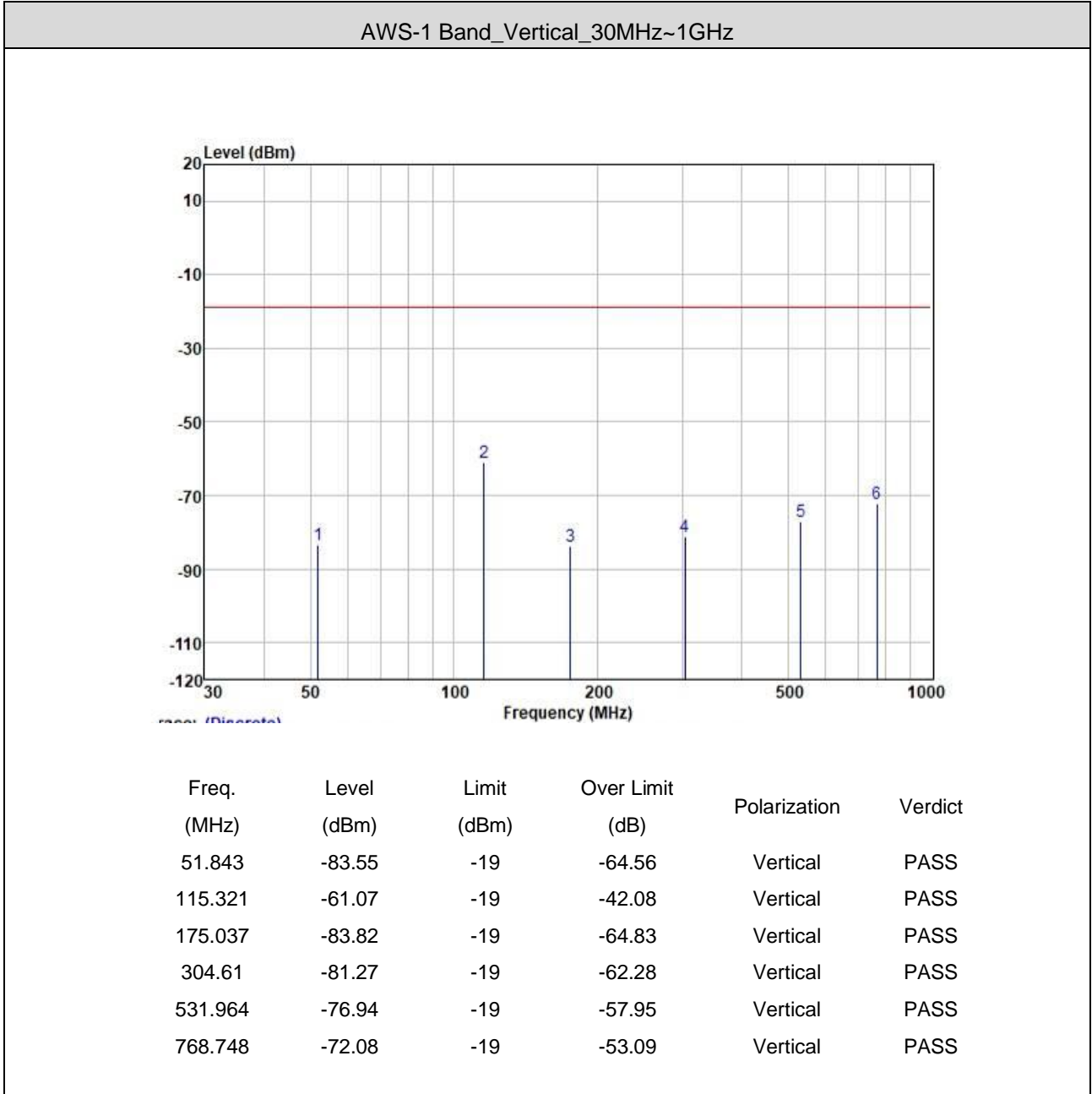
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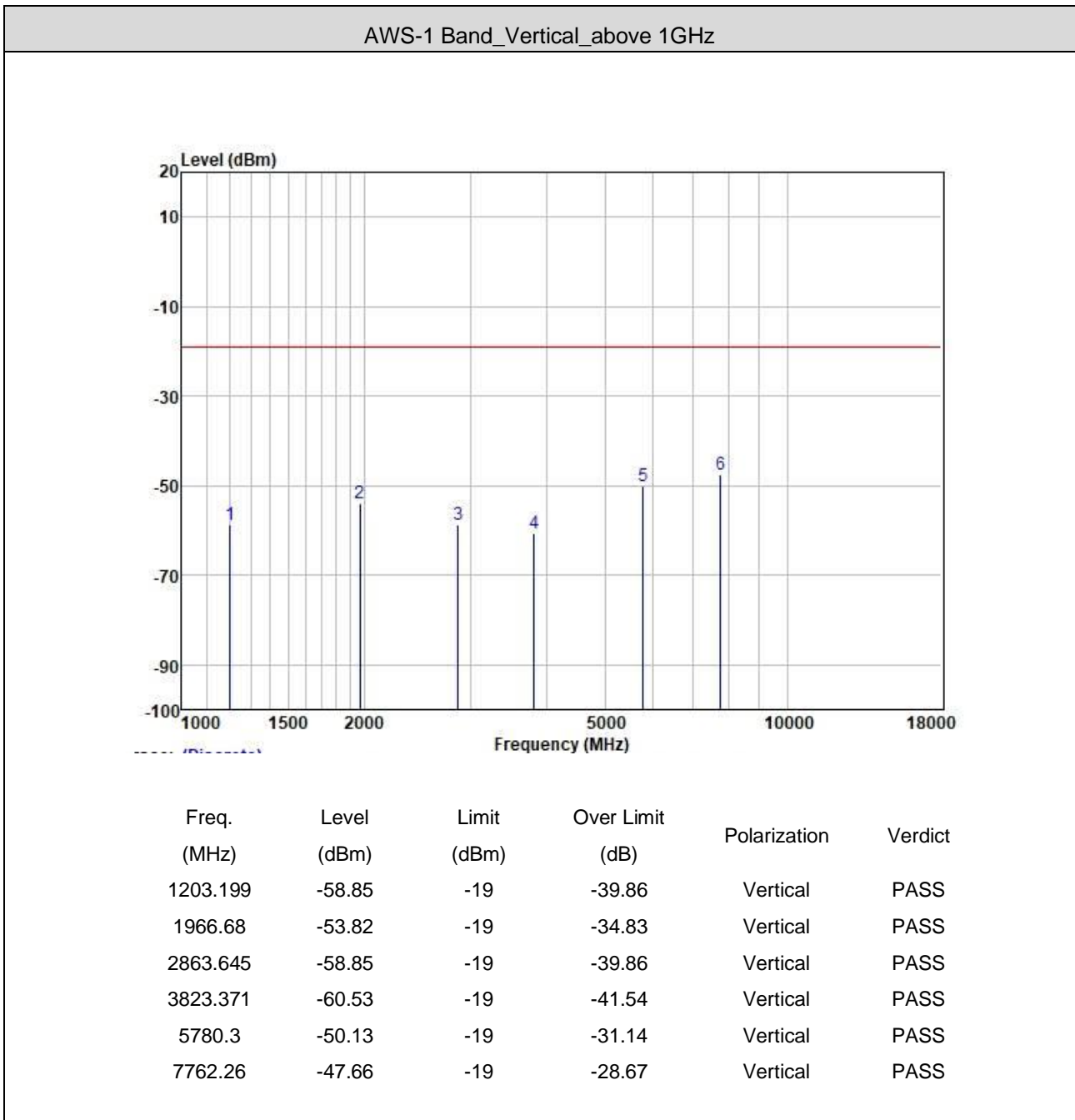


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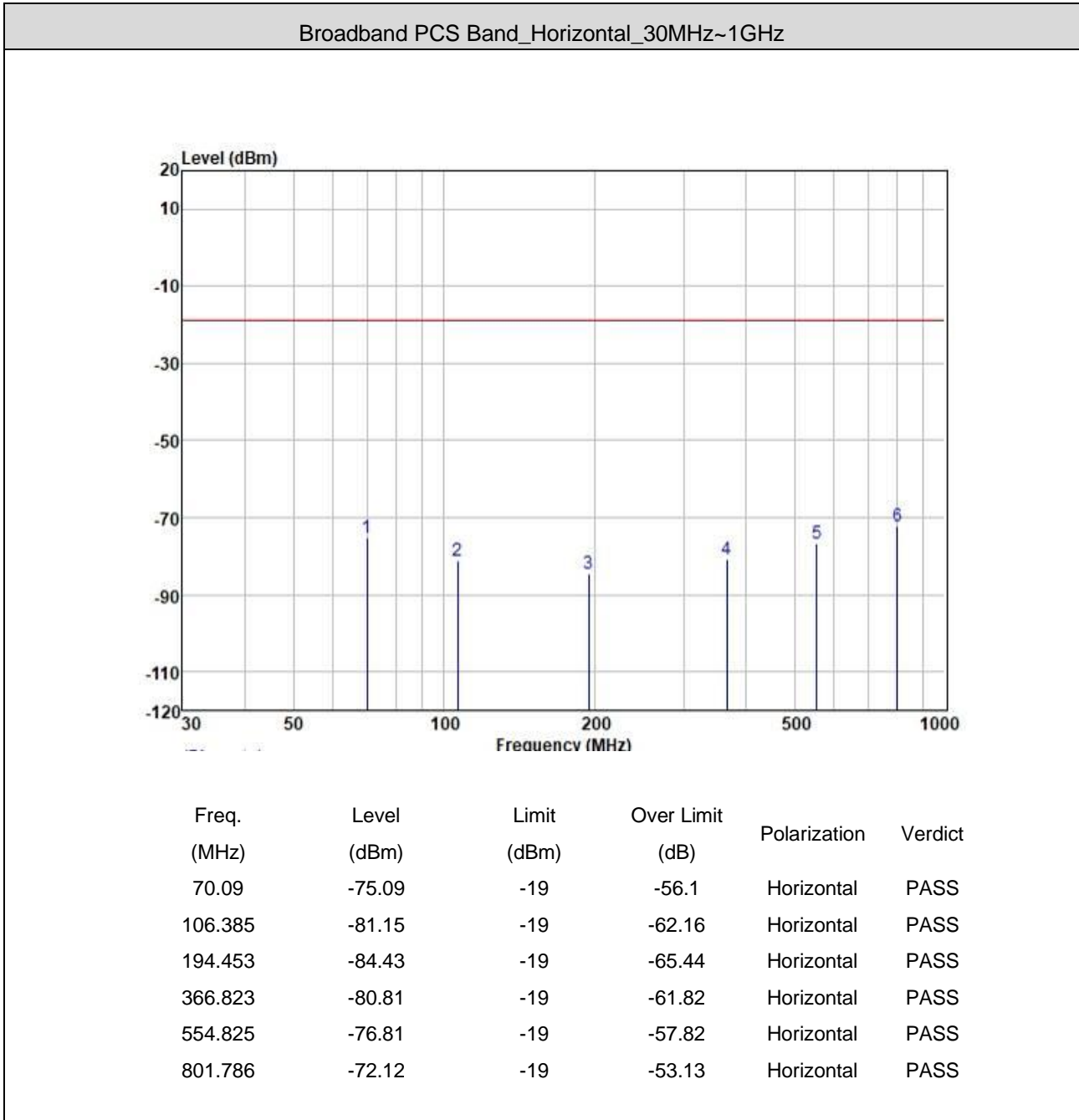
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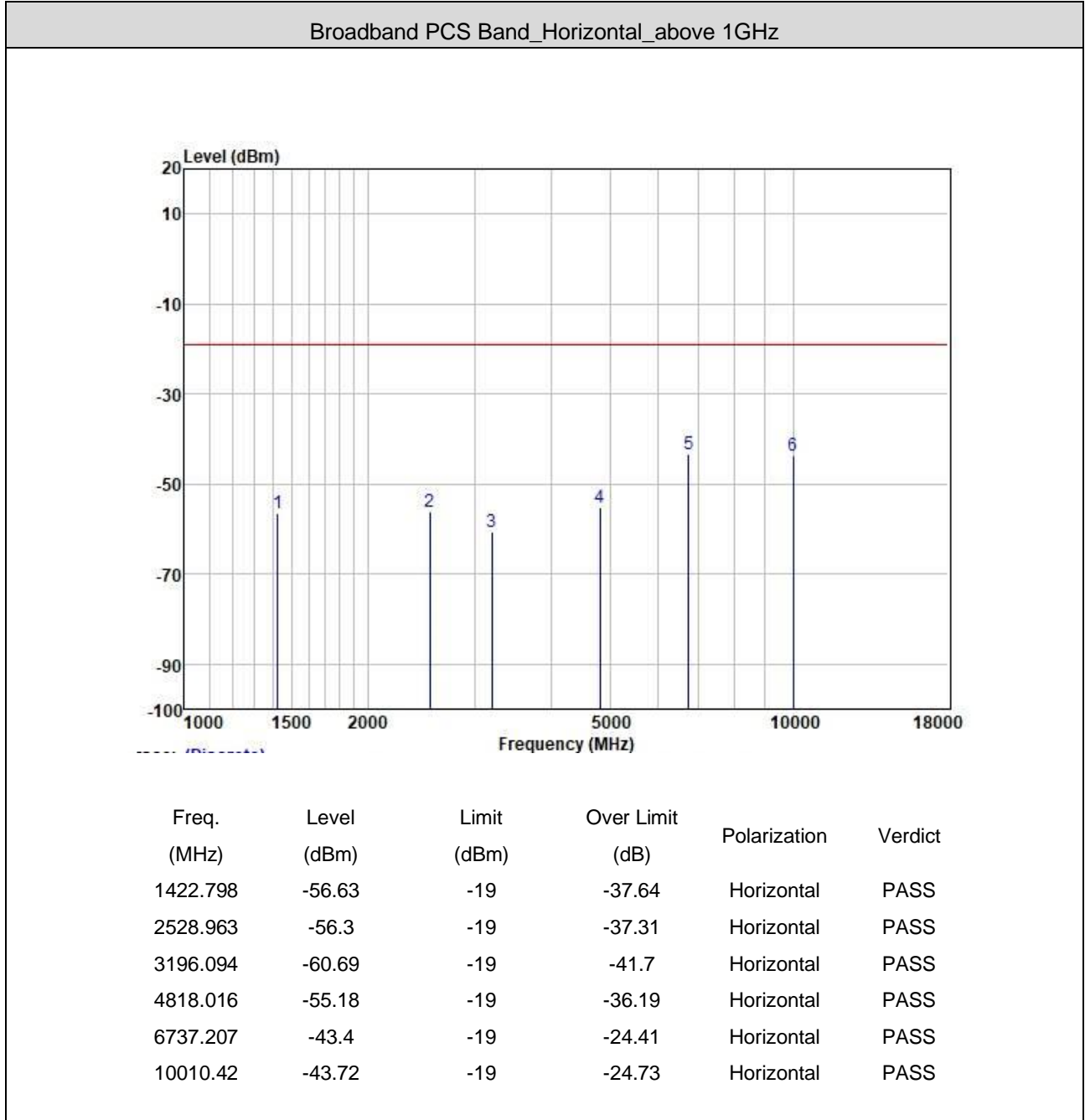
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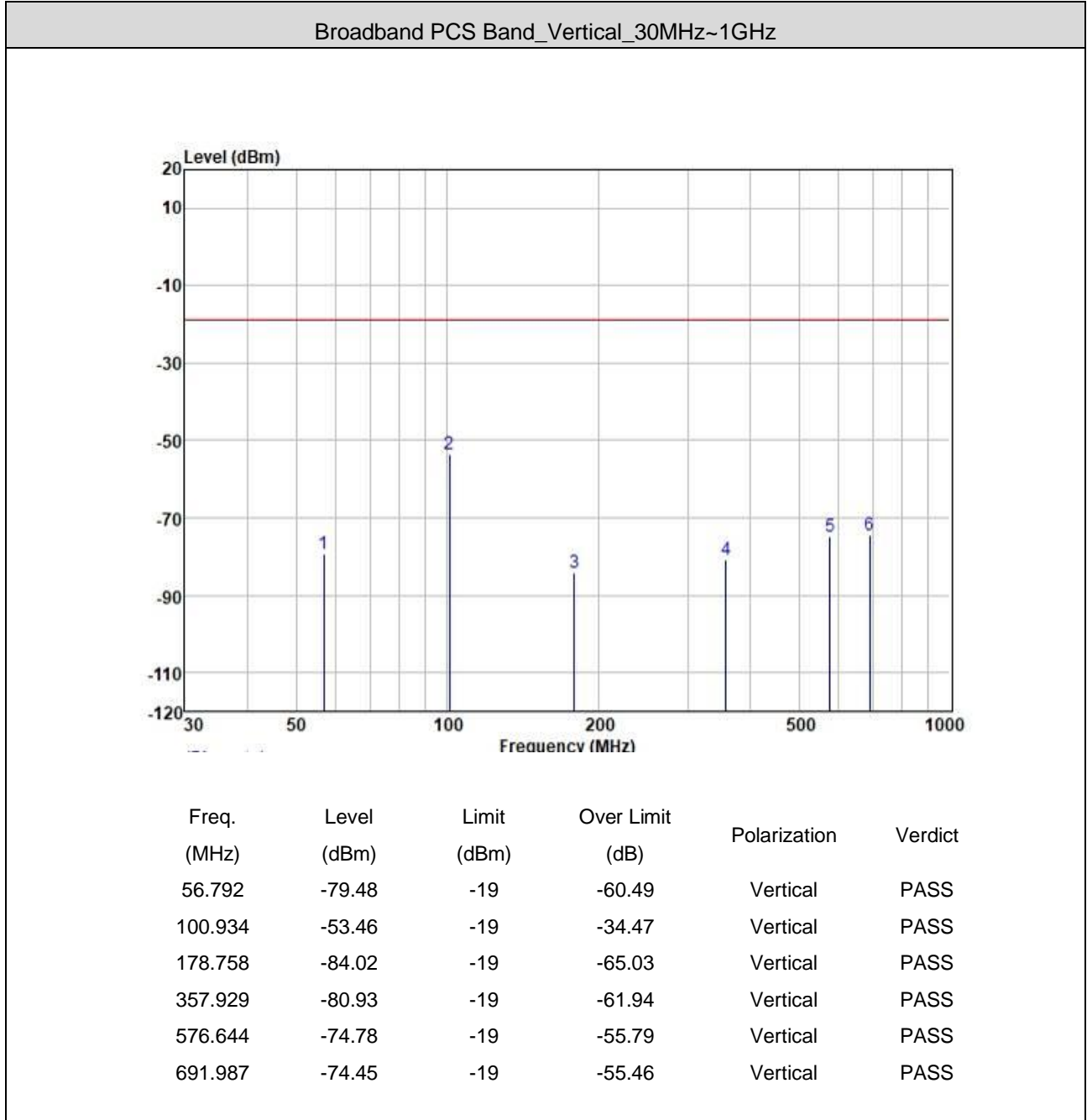
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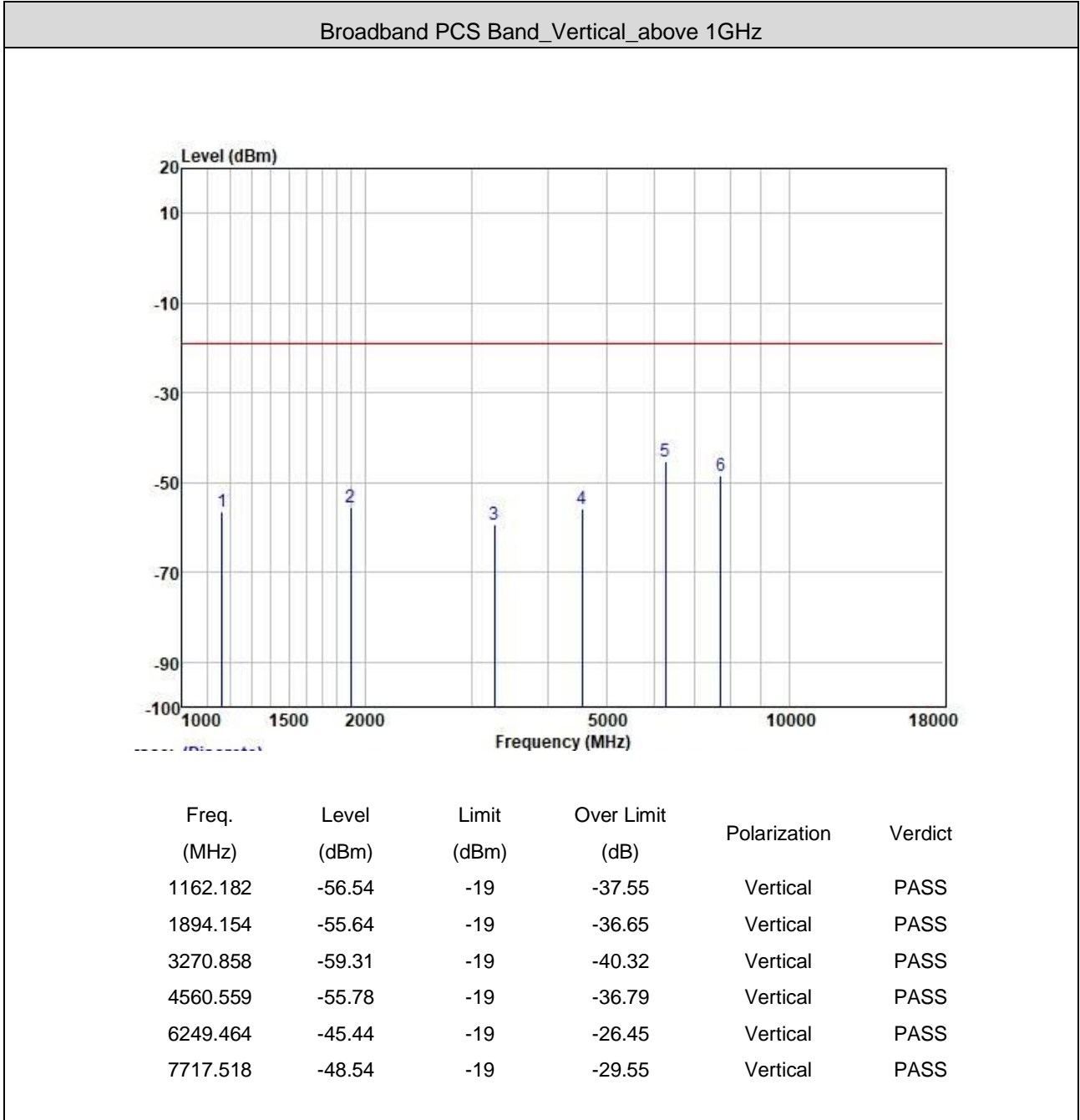


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**Remark:**

20.21(e)(8)(i)(E) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for



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the supported bands of operation.

27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

So, The limit =  $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

27.53(h)

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

22.917

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

So, The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

--End of Appendix--



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