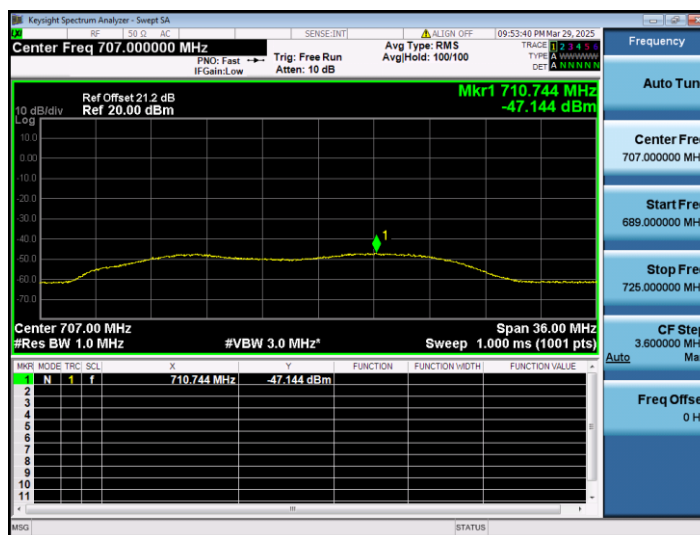


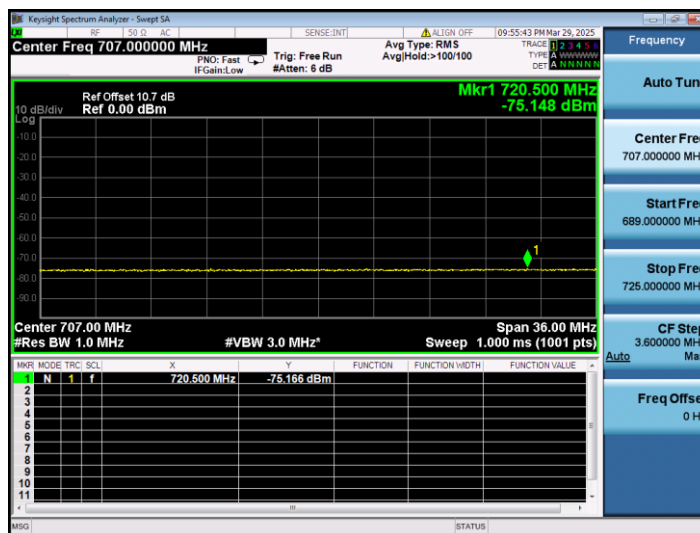
Maximum transmitter Noise Power Level

UL_Lower 700MHz Band

Power on



Power off



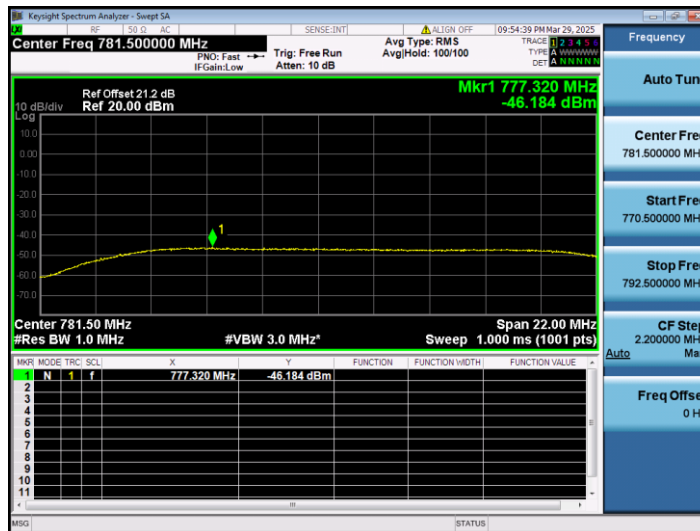
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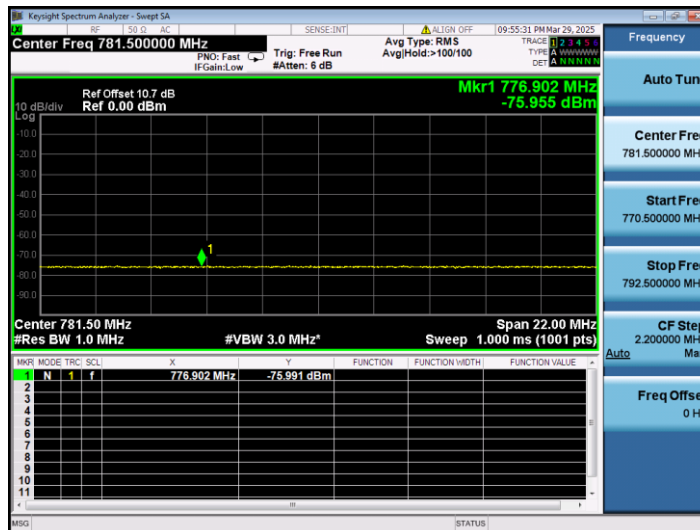
Maximum transmitter Noise Power Level

UL_Upper 700MHz Band

Power on



Power off



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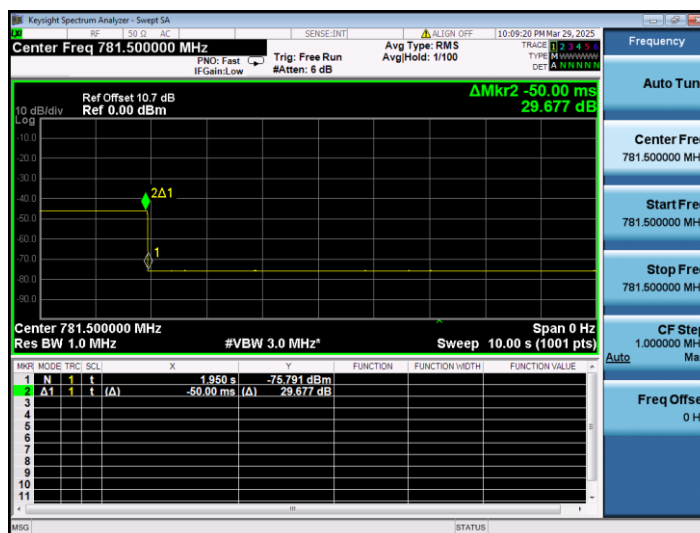
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Variable Uplink Noise Timing

UL_Lower 700MHz Band



UL_Upper 700MHz Band



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8 Uplink inactivity

Uplink Inactivity						
Path	Band	Time (s)	limit (s)	Noise Level** (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	Lower 700MHz	248.5	≤300	-75.14	≤-70	PASS
	Upper 700MHz	255.4	≤300	-75.94	≤-70	PASS
Remark: **: The EUT operated in "Transmit Power Off Mode" after uplink inactivity, so refer to clause 7 Noise limit for more details for Noise Level plots.						

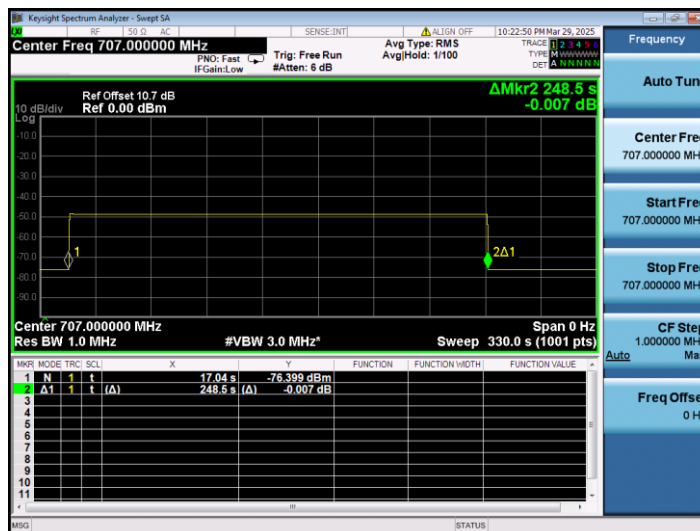


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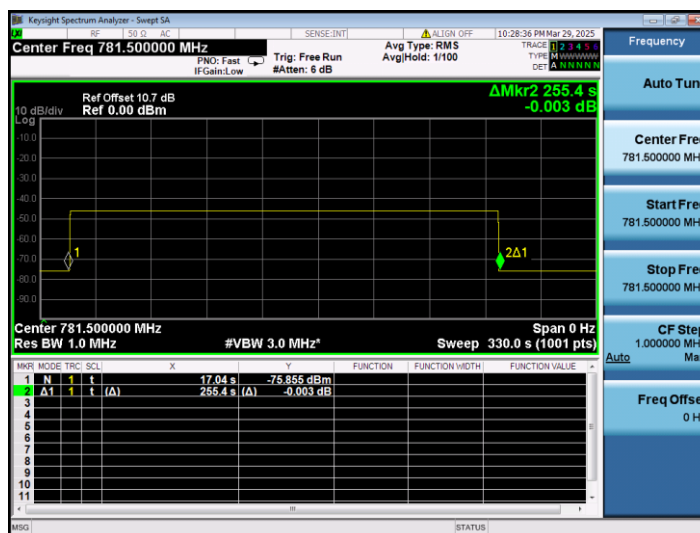
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Uplink Inactivity Timing

UL_Lower 700MHz Band



UL_Upper 700MHz Band



9 Variable booster gain

Variable Gain								
Path	Band	RSSI (dBm)	P _{in} (dBm)	P _{out} (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UL	Lower 700MHz	-90	-45	17.89	62.89	30.3	≤63.4	PASS
		-80	-45	17.89	62.89		≤63.4	PASS
		-70	-45	17.89	62.89		≤63.4	PASS
		-61	-45	10.83	55.83		≤57.3	PASS
		-54	-45	3.34	48.34		≤50.3	PASS
		-51	-45	1.31	46.31		≤47.3	PASS
	Upper 700MHz	-90	-45	18.74	63.74	31.3	≤64.3	PASS
		-80	-45	18.74	63.74		≤64.3	PASS
		-70	-45	18.74	63.74		≤64.3	PASS
		-64	-45	14.74	59.74		≤61.3	PASS
		-56	-45	6.22	51.22		≤53.3	PASS
		-43	-45	-6.15	38.85		≤40.3	PASS

Remark:

- The EUT lost amplification ability when operating in shutoff mode, so the uplink and downlink gain was within the transmit power off mode gain limit 23dB.
- The lowest MSCL for each band can be calculated as follows:

Bands	f (MHz)	d (m)	L _p (dB)	Indoor ANT Gain (dBi)	Indoor Cable Loss (dB)	MSCL (dB)
Lower 700MHz	698	1	29.3	1	0	30.3
Upper 700MHz	776	1	30.3	1	0	31.3

Where

the minimum separation distance d, the indoor antenna gain and the minimum indoor cable loss, was declared by the manufacturer.

- According to KDB 935210 D03 v04r04 appendix D figurer D2, the RSSI-dependent region can be calculated:

for Lower 700MHz, the RSSI-dependent region is -67.1 dBm to -26.7 dBm

for Upper 700MHz, the RSSI-dependent region is -67.0 dBm to -25.7 dBm



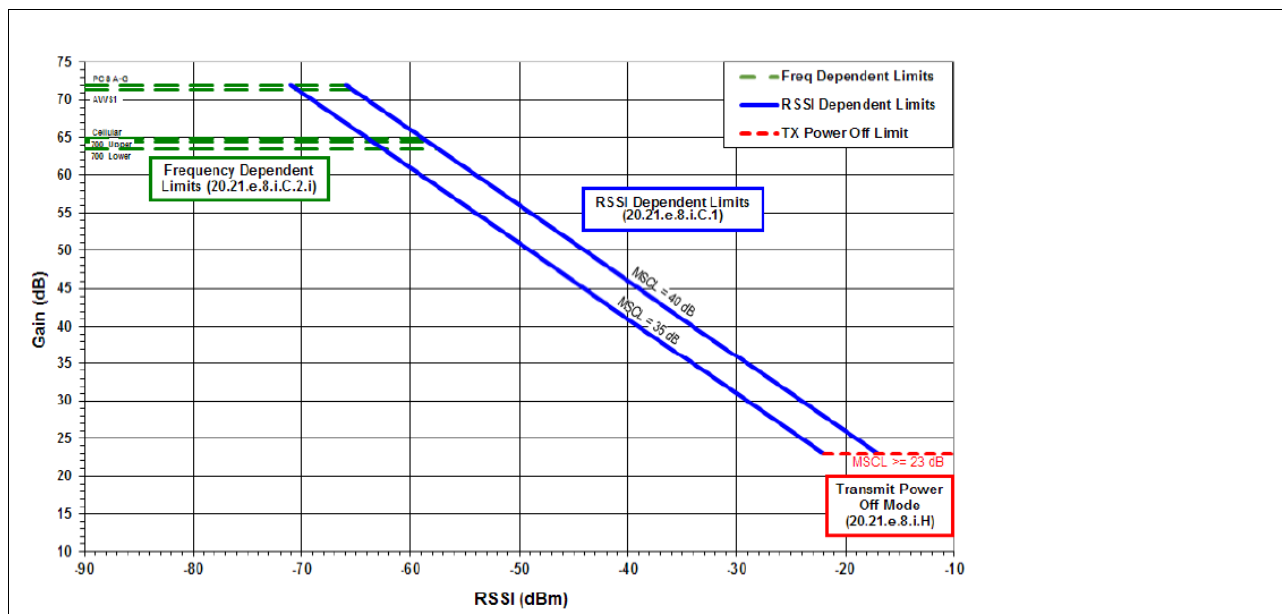
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Variable Uplink Gain Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UL	Lower 700MHz	0.1	≤ 3	PASS
	Upper 700MHz	0.1	≤ 3	PASS

10 Occupied bandwidth

Occupied Bandwidth				
Path	Band	Center Frequency (MHz)	Input Signal	Verdict
DL	700MHz	742.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
UL	Lower 700MHz	707	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Upper 700MHz	781.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS



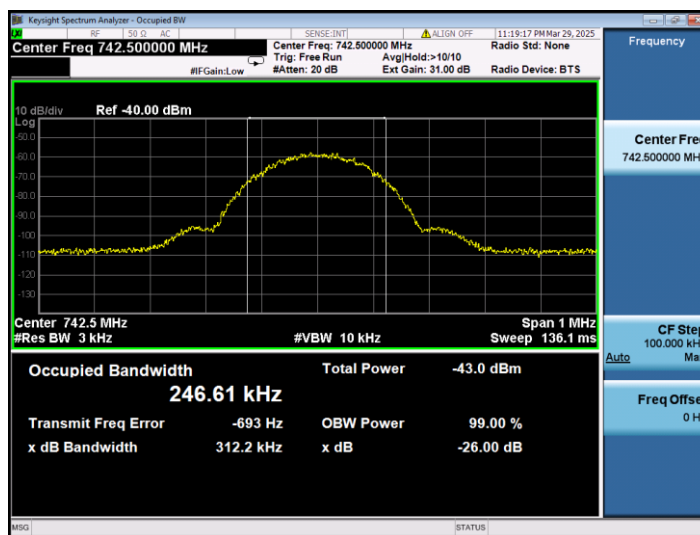
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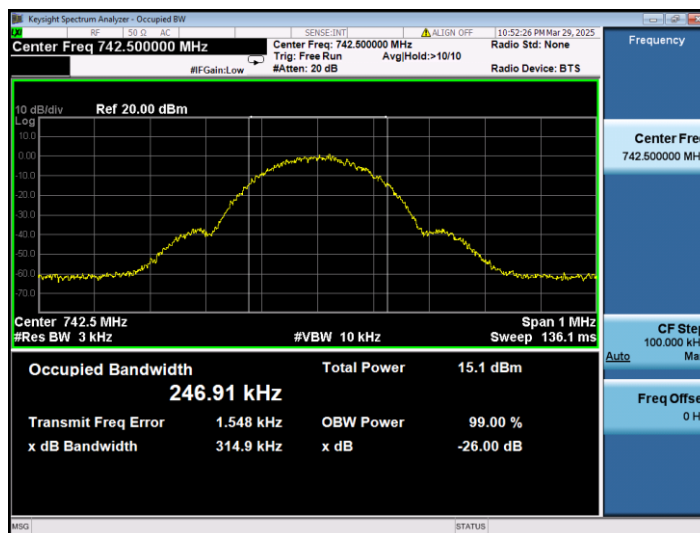
Occupied bandwidth

DL_700MHz Band_GSM signal type

Input



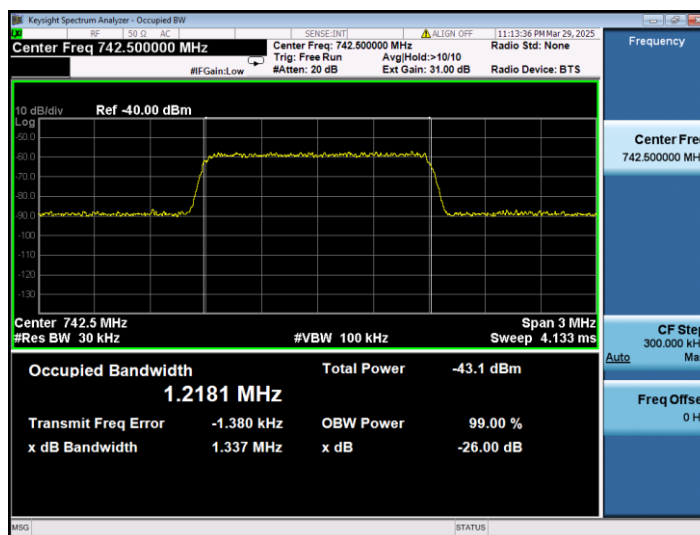
Output



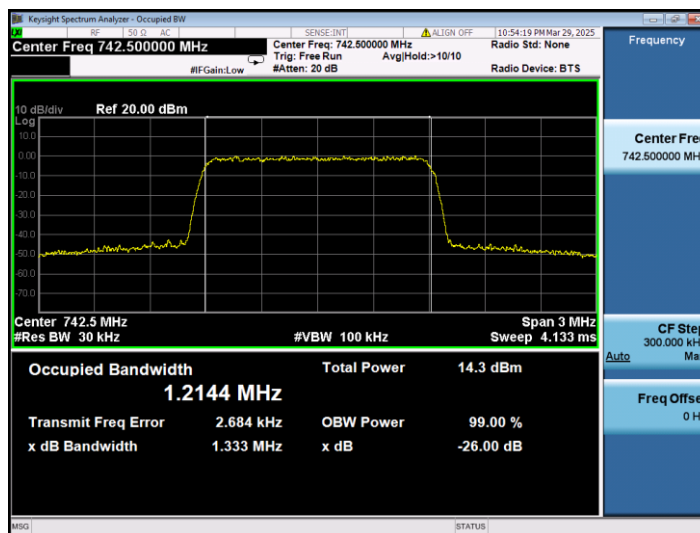
Occupied bandwidth

DL_700MHz Band_1.25MHz AWGN signal type

Input



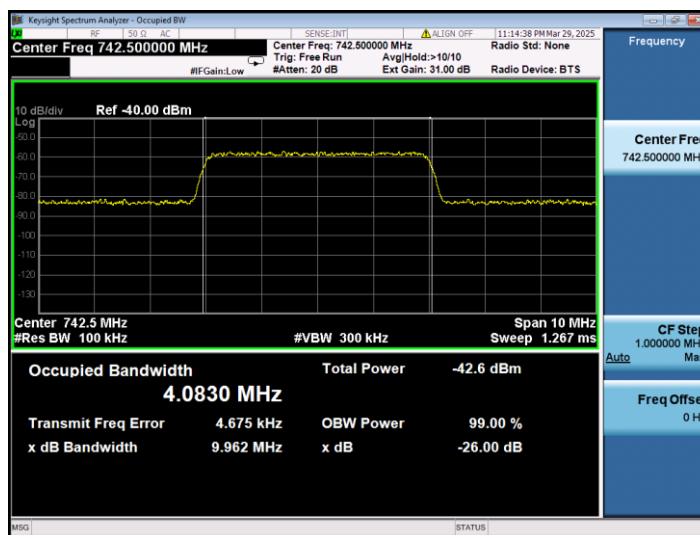
Output



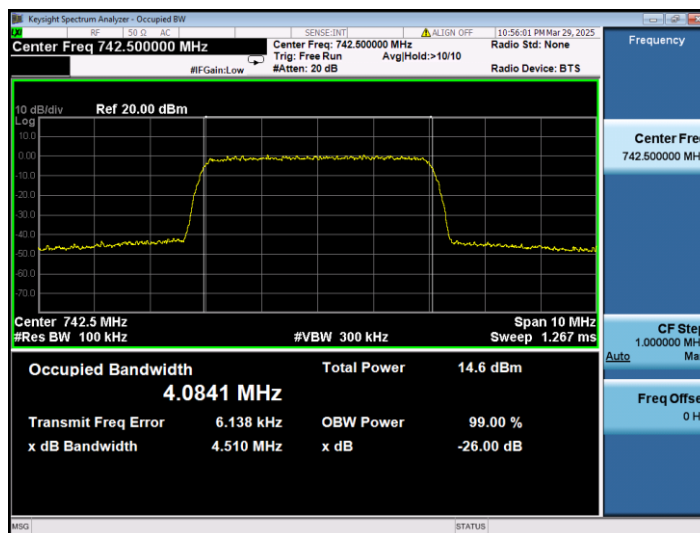
Occupied bandwidth

DL_700MHz Band_4.1MHz AWGN signal type

Input



Output



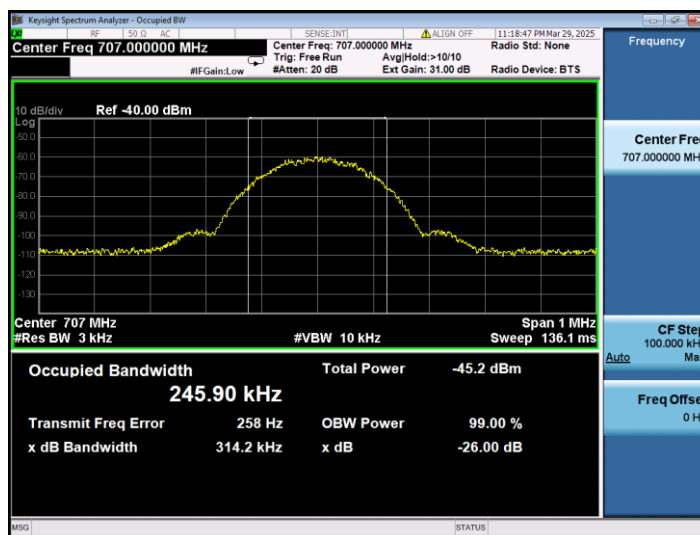
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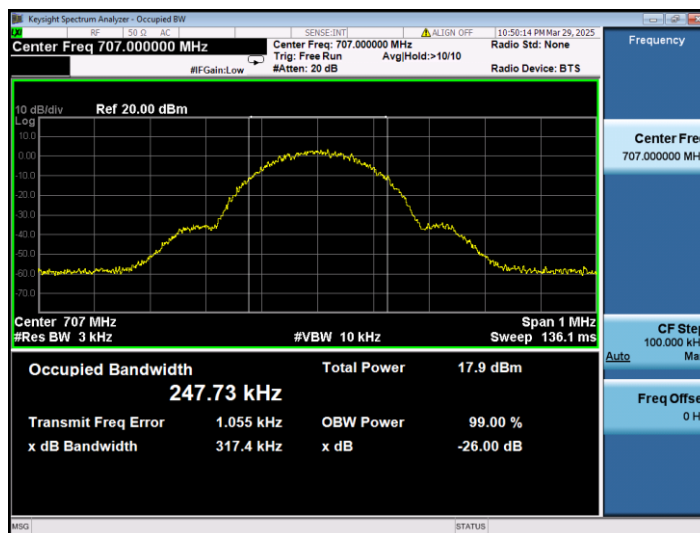
Occupied bandwidth

UL_Lower 700MHz Band_GSM signal type

Input



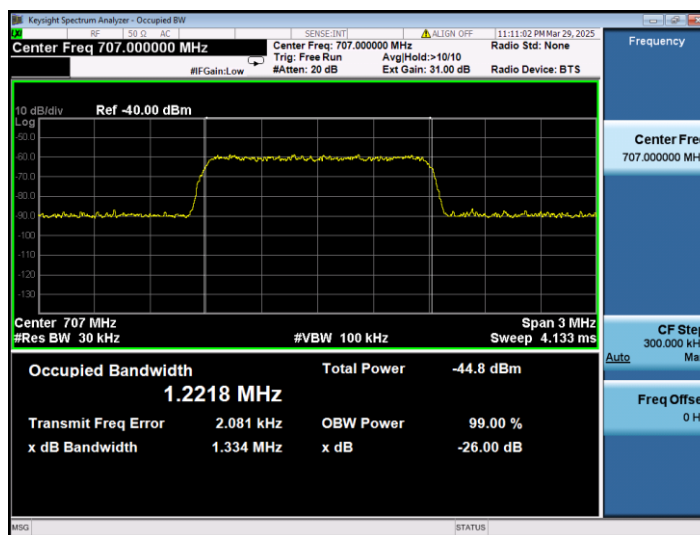
Output



Occupied bandwidth

UL_Lower 700MHz Band_1.25MHz AWGN signal type

Input



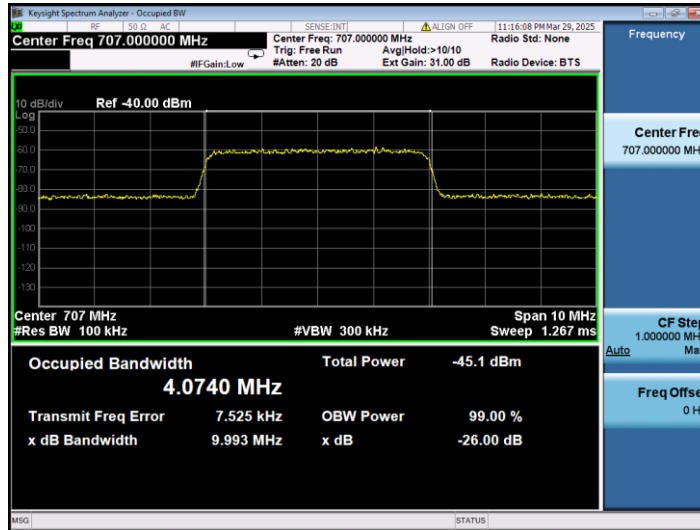
Output



Occupied bandwidth

UL_Lower 700MHz Band_4.1MHz AWGN signal type

Input



Output



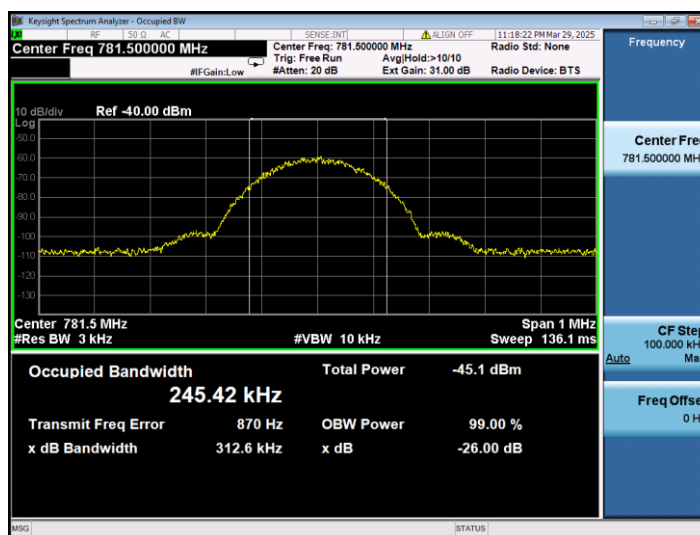
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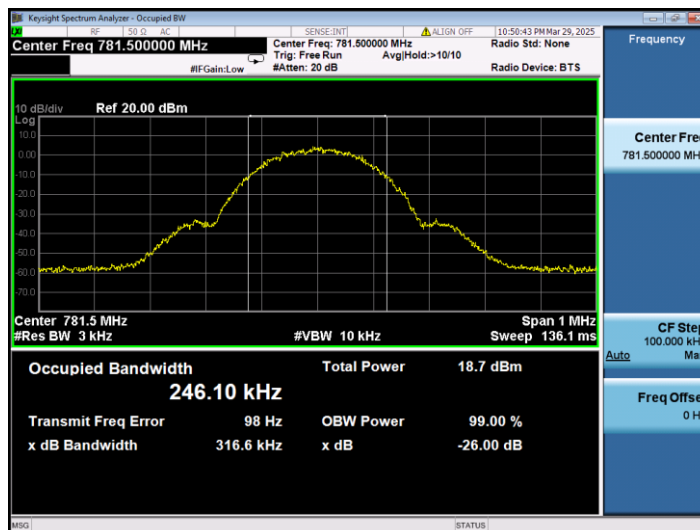
Occupied bandwidth

UL_Upper 700MHz Band_GSM signal type

Input



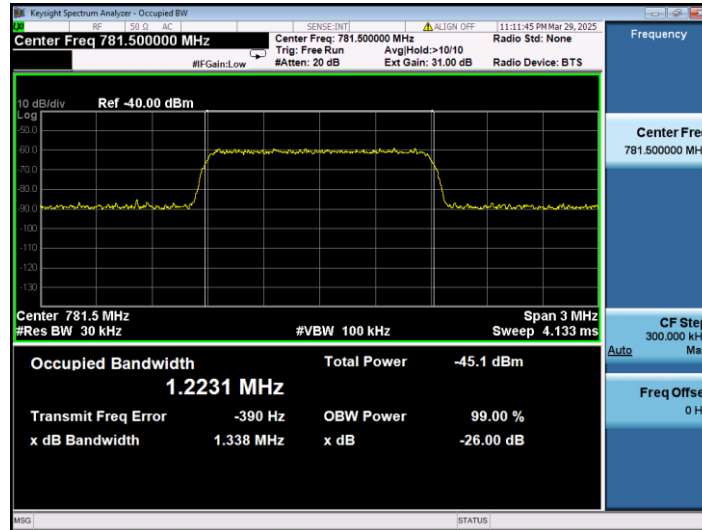
Output



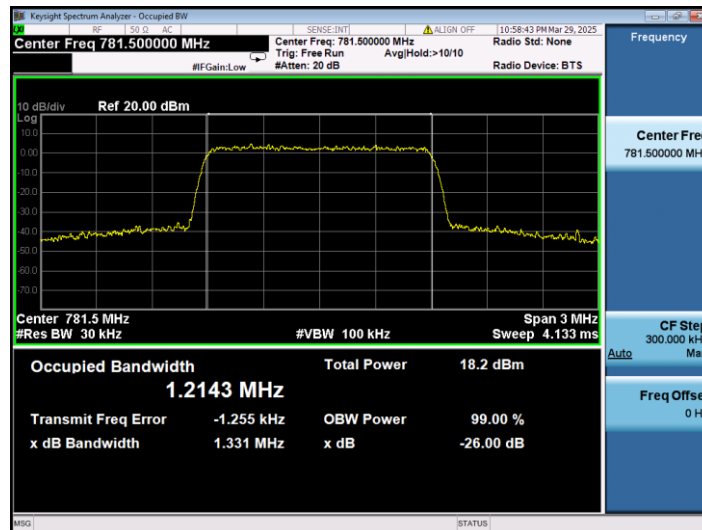
Occupied bandwidth

UL_Upper 700MHz Band_1.25MHz AWGN signal type

Input



Output



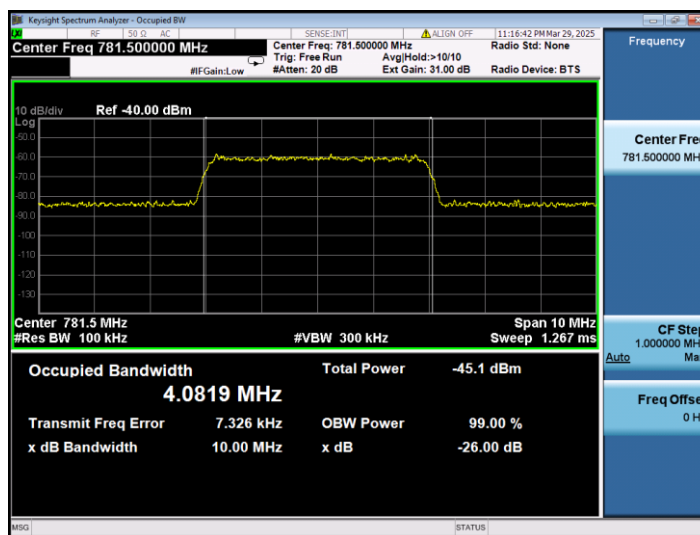
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Occupied bandwidth

UL_Upper 700MHz Band_4.1MHz AWGN signal type

Input



Output



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	0.090	≤1	19.96	/	≥60	0	≤5	PASS
UL	Lower 700MHz	0.215	≤0.3	15.92	/	≥60	0	≤5	PASS
	Upper 700MHz	0.085		20.26	/		0		PASS
Remark: The EUT will not restart after oscillation detection and mitigation. It can demonstrate compliance to the restart limit without restart time testing.									



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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	62.91	(shutdown)			≤12	PASS
		61.91					PASS
		60.91					PASS
		59.91					PASS
		58.91					PASS
		57.91					PASS
		56.91					PASS
		55.91					PASS
		54.91					PASS
		53.91					PASS
		52.91					PASS
UL	Lower 700MHz	67.89	(shutdown)			≤12	PASS
		66.89					PASS
		65.89					PASS
		64.89					PASS
		63.89					PASS
		62.89					PASS
		61.89					PASS
		60.89					PASS
		59.89					PASS
		58.89					PASS
		57.89					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	Upper 700MHz	68.74	(shutdown)			≤12	PASS
		67.74					PASS
		66.74					PASS
		65.74					PASS
		64.74					PASS
		63.74					PASS
		62.74					PASS
		61.74					PASS
		60.74					PASS
		59.74					PASS
		58.74					PASS



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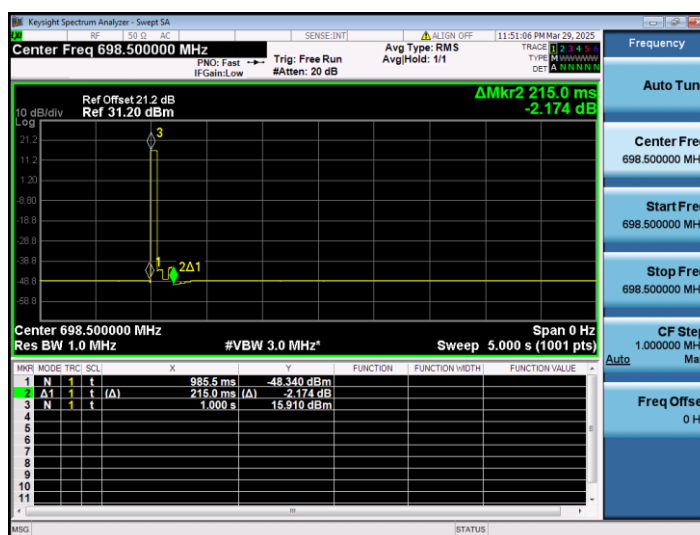
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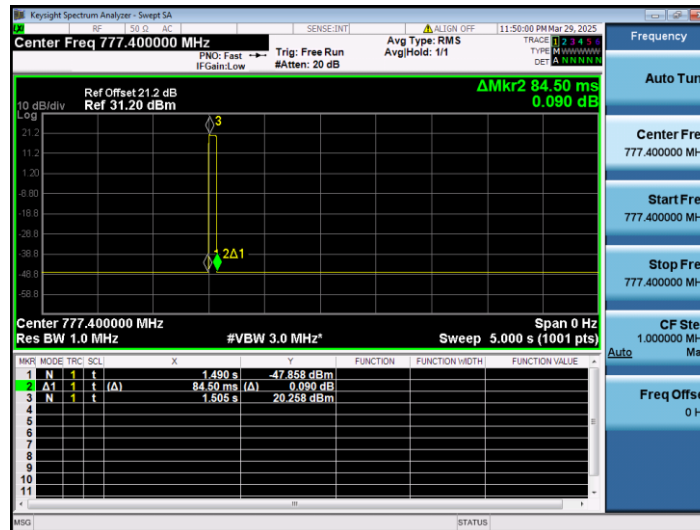
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DL 700MHz Band



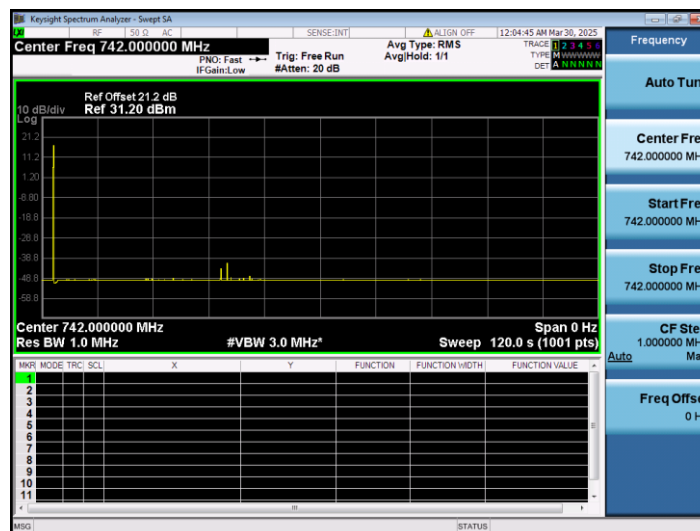
Oscillation Restart Test_ Detection time

UL_Upper 700MHz Band



Oscillation Restart Test_ Number

DL_700MHz Band



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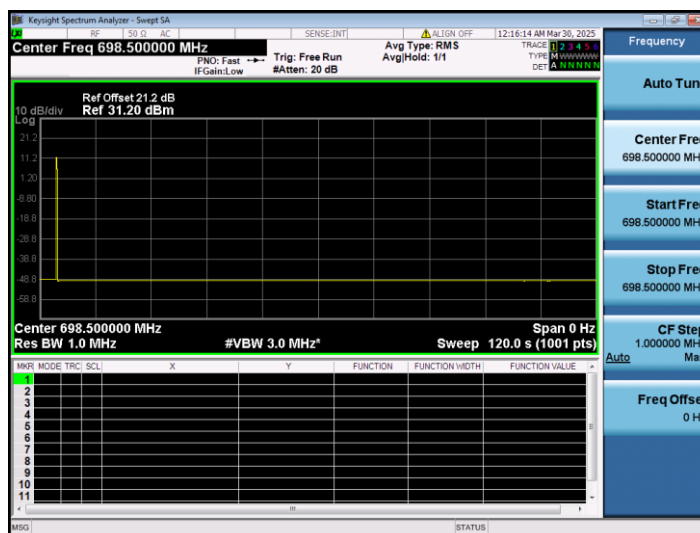
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Laboratory

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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

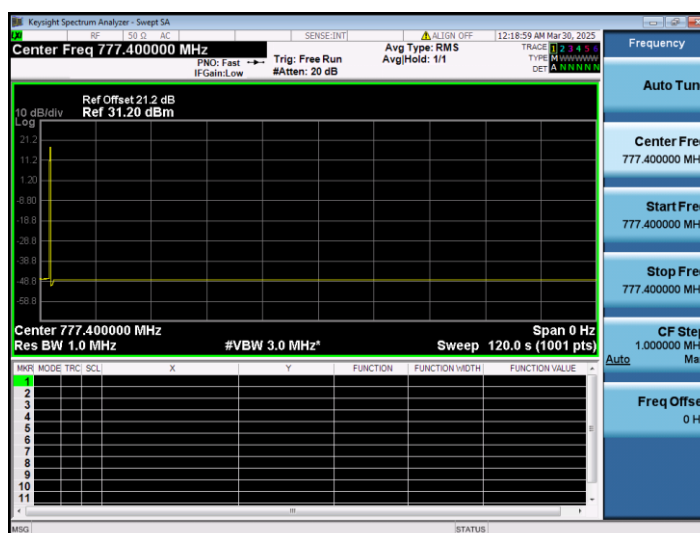
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Oscillation Restart Test_Number

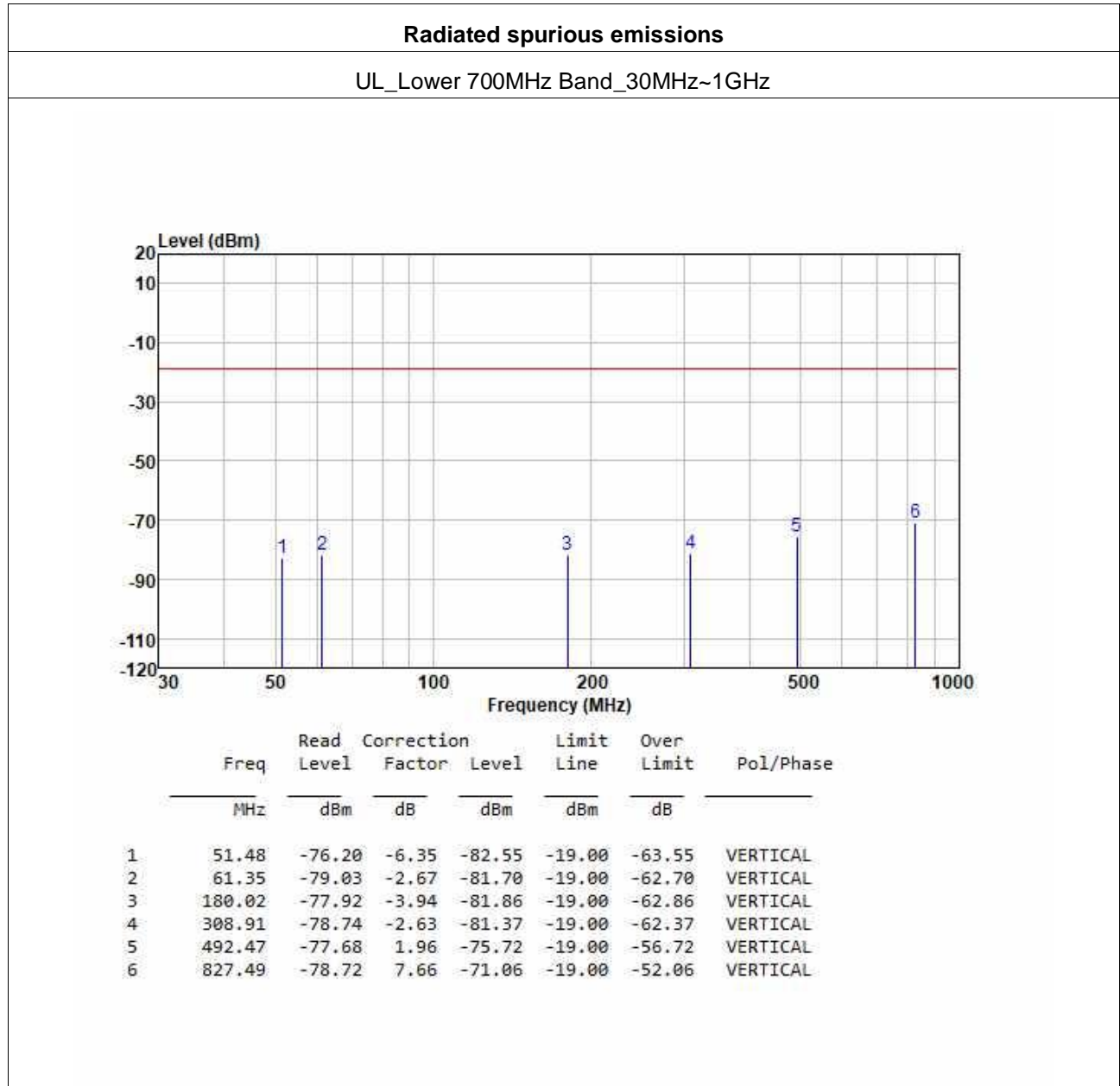
UL_Lower 700MHz Band



UL_Upper 700MHz Band

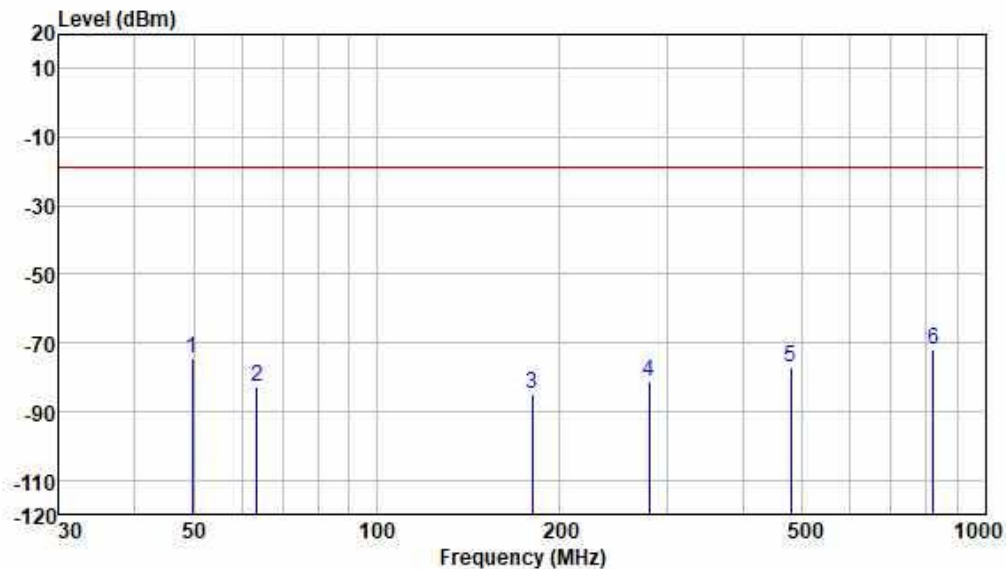


12 Radiated spurious emissions



Radiated spurious emissions

UL_Lower 700MHz Band_30MHz~1GHz



	Freq	Read	Correction		Limit	Over	
	MHz	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	49.71	-73.13	-1.42	-74.55	-19.00	-55.55	HORIZONTAL
2	63.54	-79.23	-3.69	-82.92	-19.00	-63.92	HORIZONTAL
3	180.02	-78.64	-6.01	-84.65	-19.00	-65.65	HORIZONTAL
4	280.02	-79.05	-2.42	-81.47	-19.00	-62.47	HORIZONTAL
5	478.85	-77.55	0.35	-77.20	-19.00	-58.20	HORIZONTAL
6	821.71	-79.00	7.05	-71.95	-19.00	-52.95	HORIZONTAL

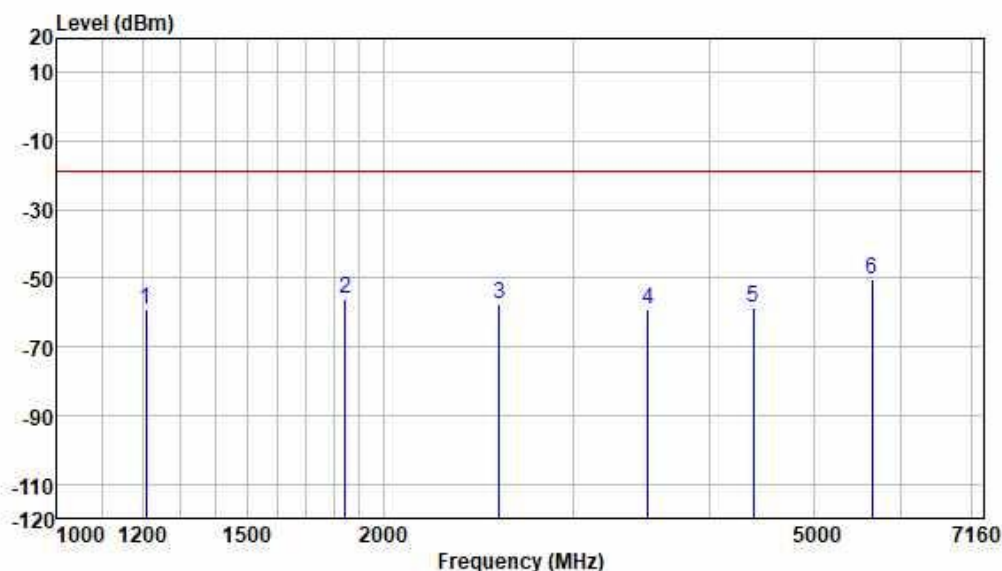


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Radiated spurious emissions

UL_Lower 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1208.01	-62.20	3.08	-59.12	-19.00	-40.12	VERTICAL
2	1844.50	-62.34	6.34	-56.00	-19.00	-37.00	VERTICAL
3	2562.41	-63.86	6.20	-57.66	-19.00	-38.66	VERTICAL
4	3511.03	-63.04	4.21	-58.83	-19.00	-39.83	VERTICAL
5	4394.35	-63.52	4.82	-58.70	-19.00	-39.70	VERTICAL
6	5653.58	-65.22	14.78	-50.44	-19.00	-31.44	VERTICAL

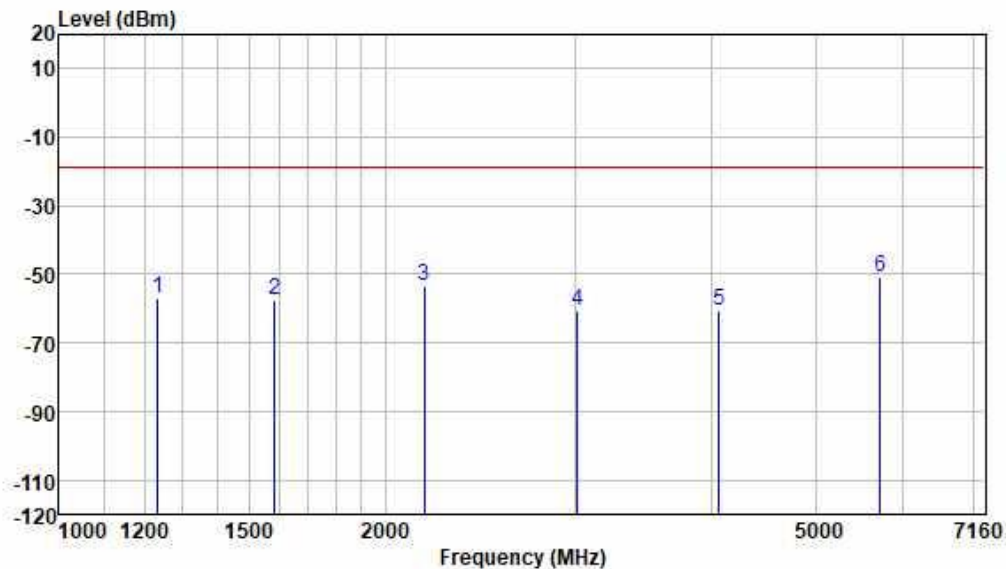


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Radiated spurious emissions

UL_Lower 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1234.46	-60.95	3.81	-57.14	-19.00	-38.14	HORIZONTAL
2	1581.96	-62.47	5.17	-57.30	-19.00	-38.30	HORIZONTAL
3	2171.88	-62.90	9.30	-53.60	-19.00	-34.60	HORIZONTAL
4	3011.28	-62.87	2.48	-60.39	-19.00	-41.39	HORIZONTAL
5	4069.61	-63.65	3.18	-60.47	-19.00	-41.47	HORIZONTAL
6	5732.02	-64.43	13.74	-50.69	-19.00	-31.69	HORIZONTAL

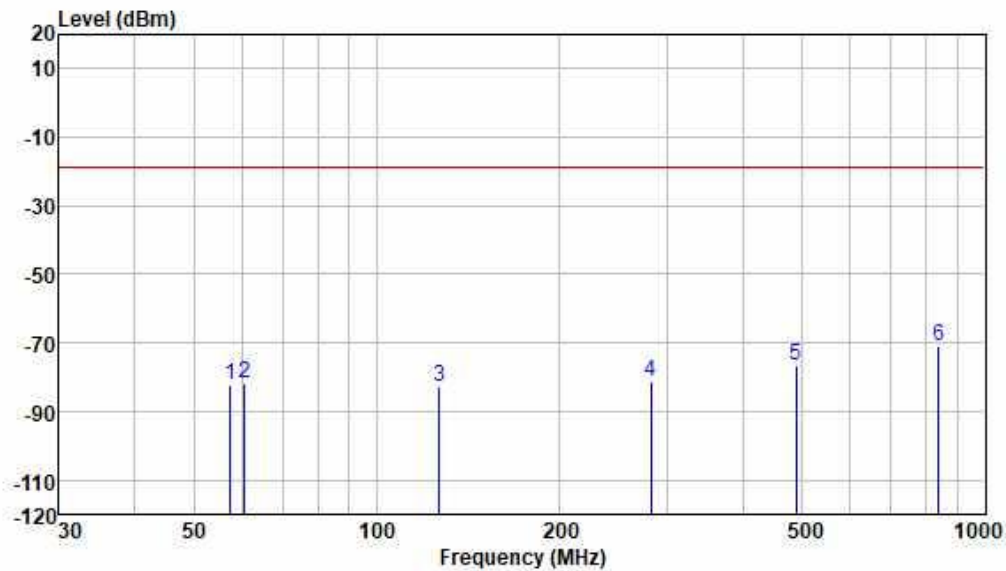


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Radiated spurious emissions

UL_Upper 700MHz Band_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	57.39	-79.29	-2.92	-82.21	-19.00	-63.21	VERTICAL
2	60.49	-79.70	-2.28	-81.98	-19.00	-62.98	VERTICAL
3	126.77	-78.62	-3.93	-82.55	-19.00	-63.55	VERTICAL
4	281.99	-78.71	-2.71	-81.42	-19.00	-62.42	VERTICAL
5	489.03	-78.42	1.99	-76.43	-19.00	-57.43	VERTICAL
6	839.18	-78.75	7.78	-70.97	-19.00	-51.97	VERTICAL

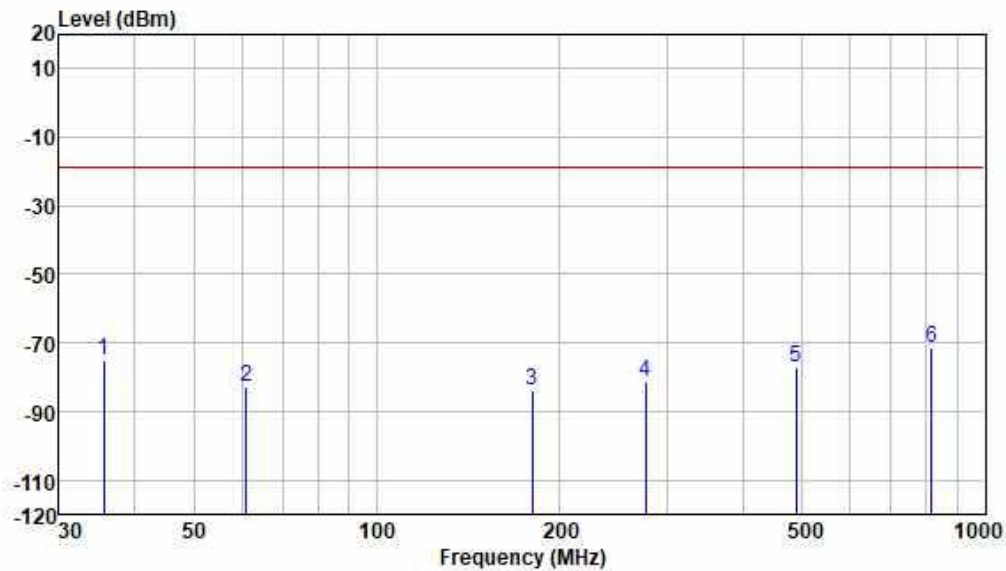


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Radiated spurious emissions

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	35.50	-78.08	2.80	-75.28	-19.00	-56.28	HORIZONTAL
2	60.92	-80.00	-2.75	-82.75	-19.00	-63.75	HORIZONTAL
3	180.02	-77.80	-6.01	-83.81	-19.00	-64.81	HORIZONTAL
4	276.12	-78.78	-2.63	-81.41	-19.00	-62.41	HORIZONTAL
5	489.03	-77.46	0.37	-77.09	-19.00	-58.09	HORIZONTAL
6	815.97	-78.50	7.01	-71.49	-19.00	-52.49	HORIZONTAL

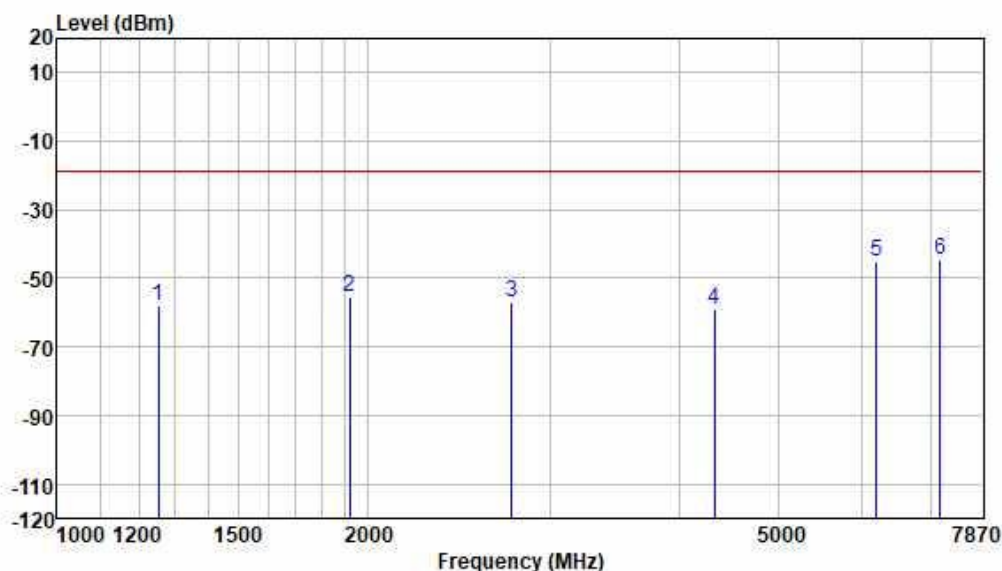


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Radiated spurious emissions

UL_Upper 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1252.16	-61.91	3.98	-57.93	-19.00	-38.93	VERTICAL
2	1919.23	-62.72	7.22	-55.50	-19.00	-36.50	VERTICAL
3	2753.74	-61.42	4.53	-56.89	-19.00	-37.89	VERTICAL
4	4326.55	-63.72	4.62	-59.10	-19.00	-40.10	VERTICAL
5	6207.80	-64.13	18.87	-45.26	-19.00	-26.26	VERTICAL
6	7157.48	-63.82	19.35	-44.47	-19.00	-25.47	VERTICAL

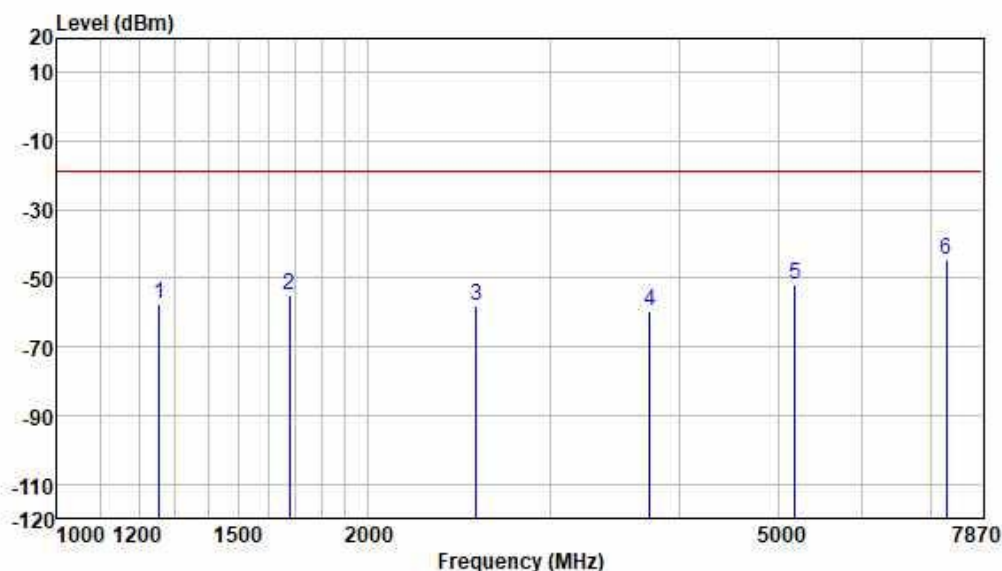


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Radiated spurious emissions

UL_Upper 700MHz Band_ Above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1254.75	-61.42	3.99	-57.43	-19.00	-38.43	HORIZONTAL
2	1678.38	-61.21	6.16	-55.05	-19.00	-36.05	HORIZONTAL
3	2546.11	-64.53	6.59	-57.94	-19.00	-38.94	HORIZONTAL
4	3744.76	-63.20	3.48	-59.72	-19.00	-40.72	HORIZONTAL
5	5177.16	-64.27	12.58	-51.69	-19.00	-32.69	HORIZONTAL
6	7246.62	-62.88	18.08	-44.80	-19.00	-25.80	HORIZONTAL

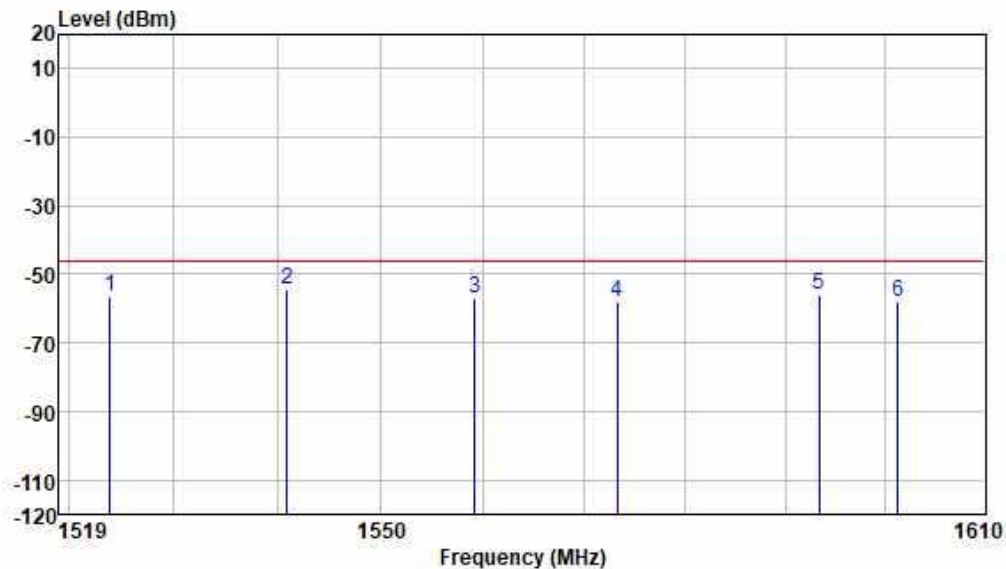


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Radiated spurious emissions

UL_Upper 700MHz Band_1559-1610MHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1523.87	-63.11	6.54	-56.57	-46.00	-10.57	VERTICAL
2	1540.90	-60.51	6.14	-54.37	-46.00	-8.37	VERTICAL
3	1559.21	-62.38	5.63	-56.75	-46.00	-10.75	VERTICAL
4	1573.24	-63.32	5.31	-58.01	-46.00	-12.01	VERTICAL
5	1593.32	-60.87	4.97	-55.90	-46.00	-9.90	VERTICAL
6	1601.22	-62.67	4.82	-57.85	-46.00	-11.85	VERTICAL

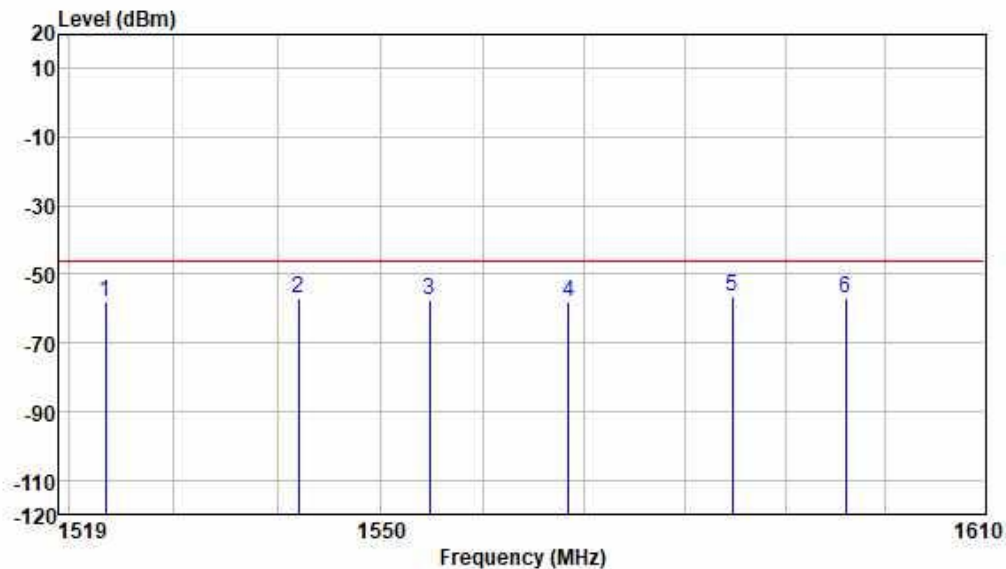


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Radiated spurious emissions

UL_Upper 700MHz Band_1559-1610MHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1523.43	-62.85	4.83	-58.02	-46.00	-12.02	HORIZONTAL
2	1542.06	-62.14	4.92	-57.22	-46.00	-11.22	HORIZONTAL
3	1554.77	-62.35	5.01	-57.34	-46.00	-11.34	HORIZONTAL
4	1568.39	-63.28	5.10	-58.18	-46.00	-12.18	HORIZONTAL
5	1584.63	-61.58	5.17	-56.41	-46.00	-10.41	HORIZONTAL
6	1595.92	-62.32	5.22	-57.10	-46.00	-11.10	HORIZONTAL

Remark:

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.

--End of Appendix--



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