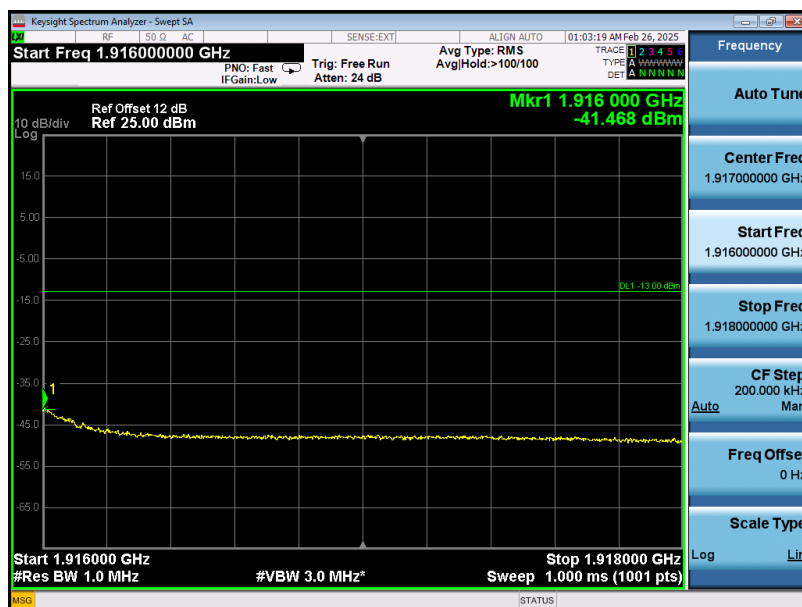
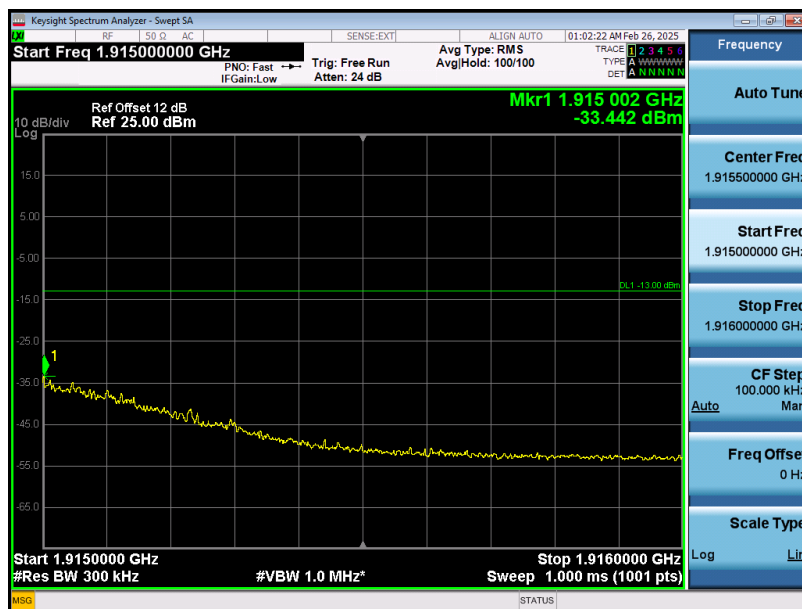


Out-of-band emissions

DL_1.25MHz AWGN input_Upper band edge_10dB above AGC



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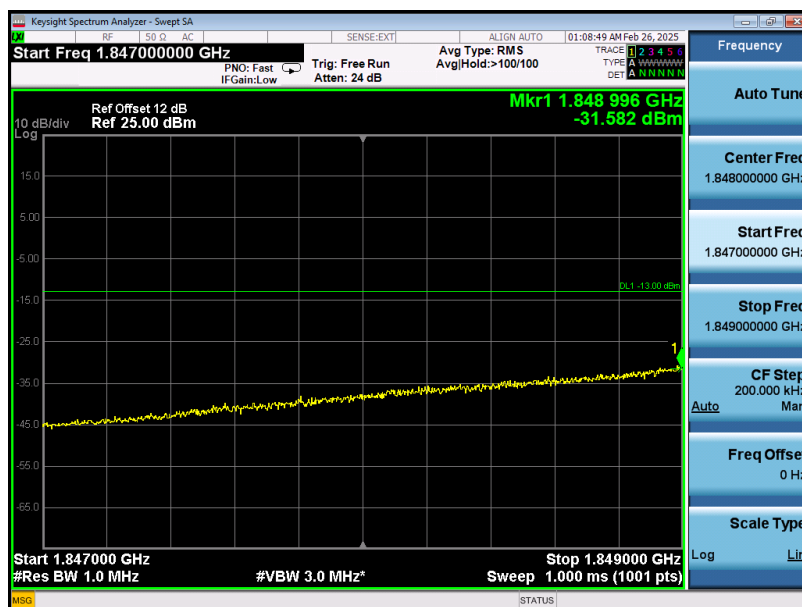
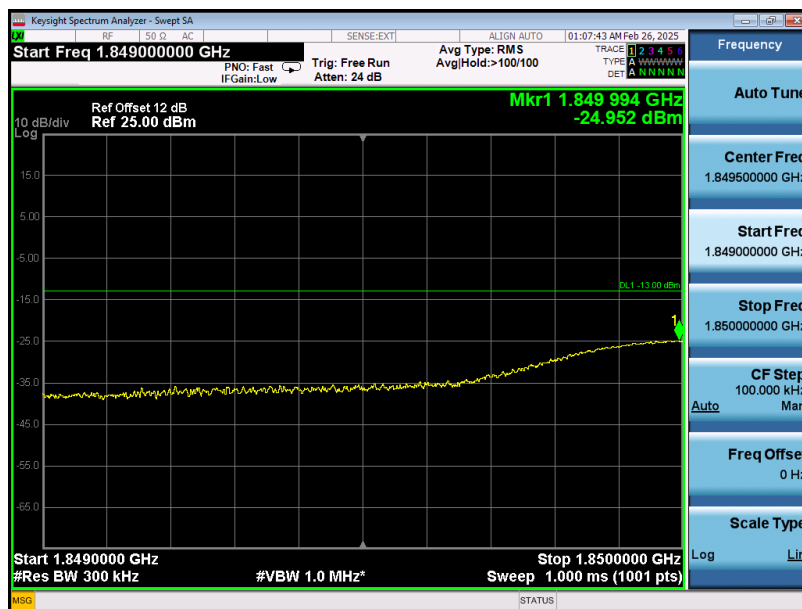
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Out-of-band emissions

DL_4.1MHz AWGN input_Lower band edge_pre-AGC



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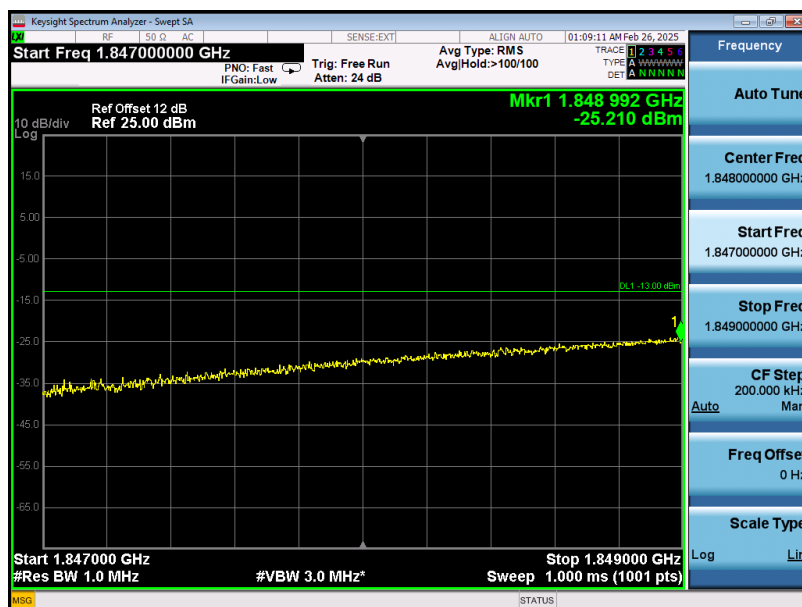
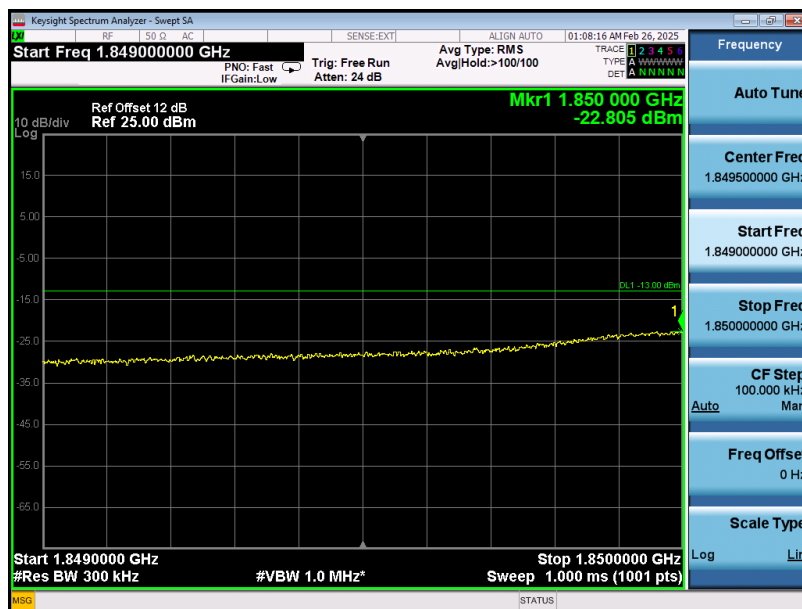
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Out-of-band emissions

DL_4.1MHz AWGN input_Lower band edge_10dB above AGC

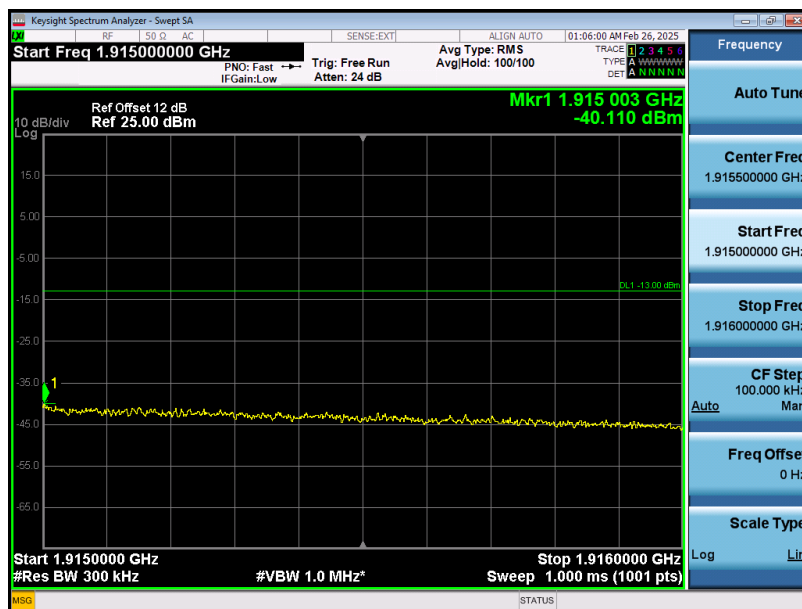


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Out-of-band emissions

DL_4.1MHz AWGN input_Upper band edge_pre-AGC

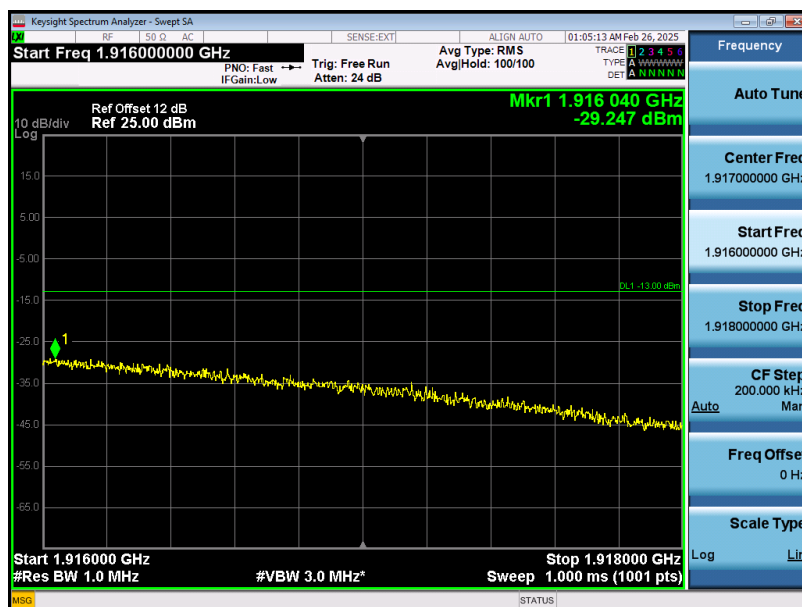
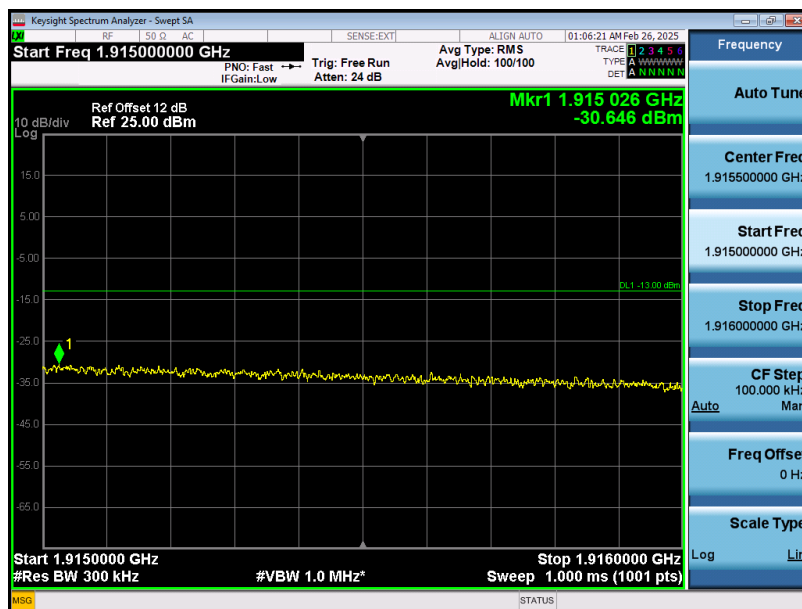


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DL_4.1MHz AWGN input_Upper band edge_10dB above AGC



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7 Conducted spurious emissions

Conducted spurious emissions							
Test Path	Test Port	Test Signal	Test Channel	Frequency Range (MHz)	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	MT1	4.1MHz AWGN	MCH	30-1929	-42.34	≤-13	PASS
				1996-21550	-43.56	≤-13	PASS
	MT2	4.1MHz AWGN	MCH	30-1929	-41.95	≤-13	PASS
				1996-21550	-43.46	≤-13	PASS
	MT3	4.1MHz AWGN	MCH	30-1929	-41.89	≤-13	PASS
				1996-21550	-43.58	≤-13	PASS
	MT4	4.1MHz AWGN	MCH	30-1929	-42.04	≤-13	PASS
				1996-21550	-43.89	≤-13	PASS
	MT5	4.1MHz AWGN	MCH	30-1929	-42.06	≤-13	PASS
				1996-21550	-43.77	≤-13	PASS
	MT6	4.1MHz AWGN	MCH	30-1929	-42.59	≤-13	PASS
				1996-21550	-43.44	≤-13	PASS
	MT7	4.1MHz AWGN	MCH	30-1929	-41.89	≤-13	PASS
				1996-21550	-43.58	≤-13	PASS
	MT8	4.1MHz AWGN	MCH	30-1929	-42.60	≤-13	PASS
				1996-21550	-43.39	≤-13	PASS
UL	DT	4.1MHz AWGN	MCH	30-1849	-26.80	≤-13	PASS
				1916-17550	-50.03	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz and above 10GHz were very low and not displayed test plots in this report.							

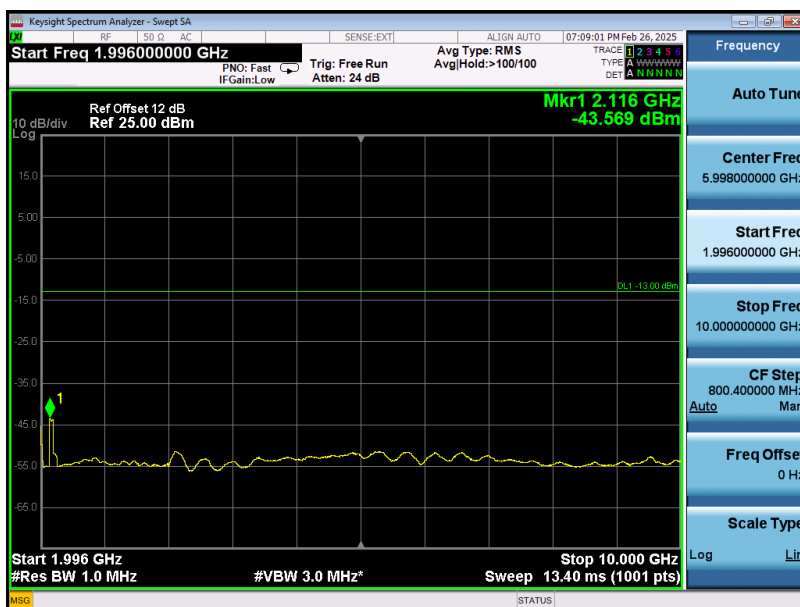
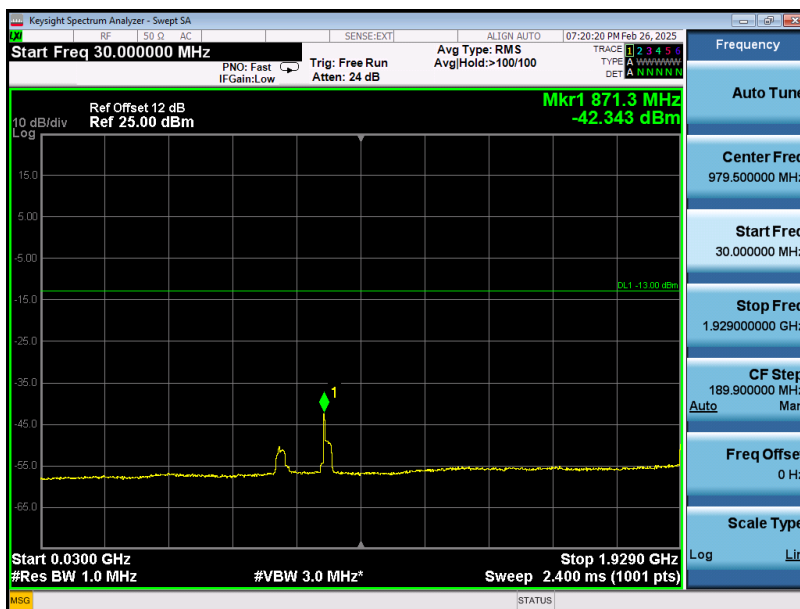


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Conducted spurious emissions

DL_MT1

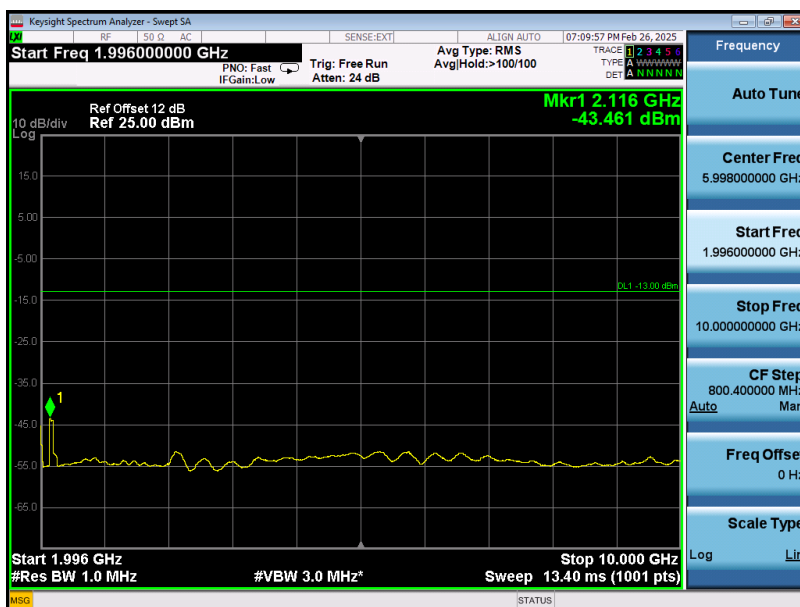
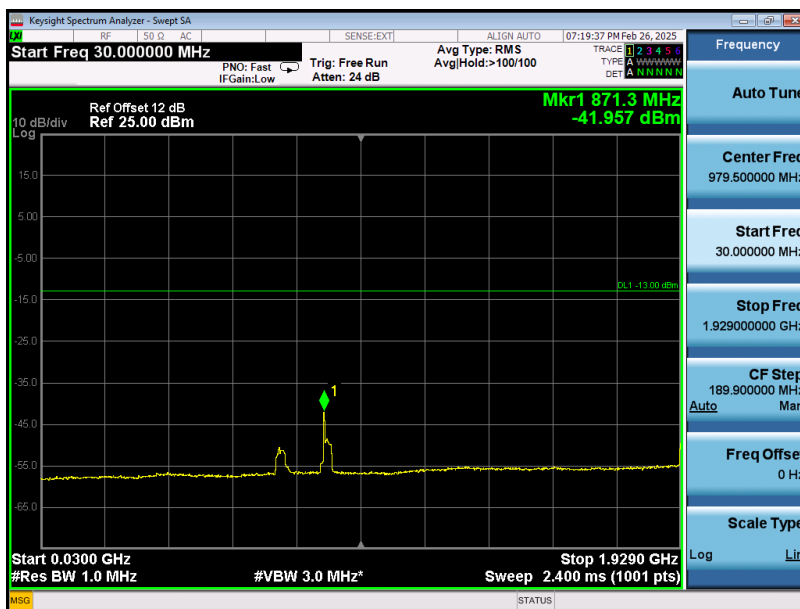


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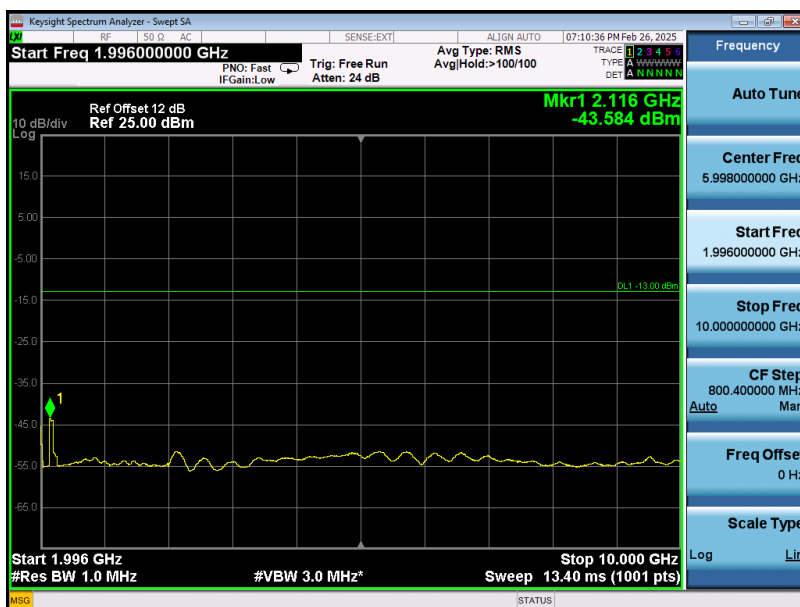
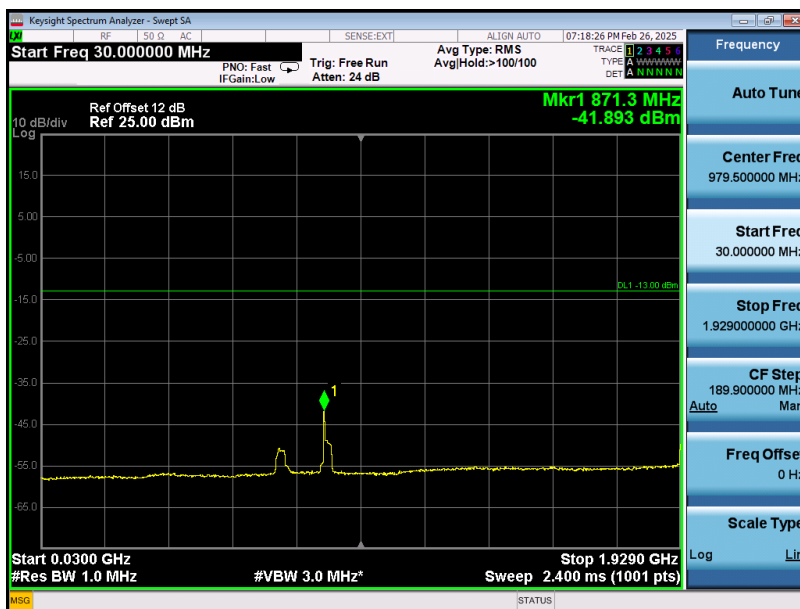
Conducted spurious emissions

DL_MT2



Conducted spurious emissions

DL_MT3

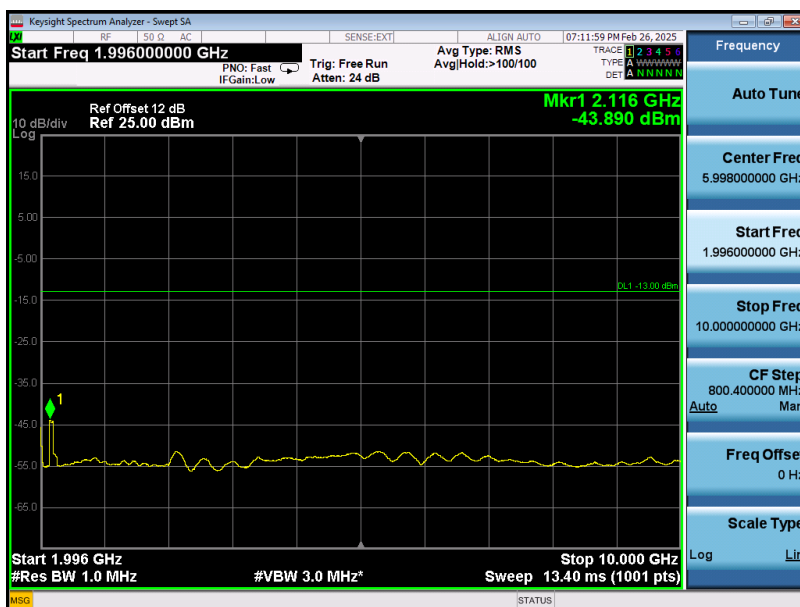
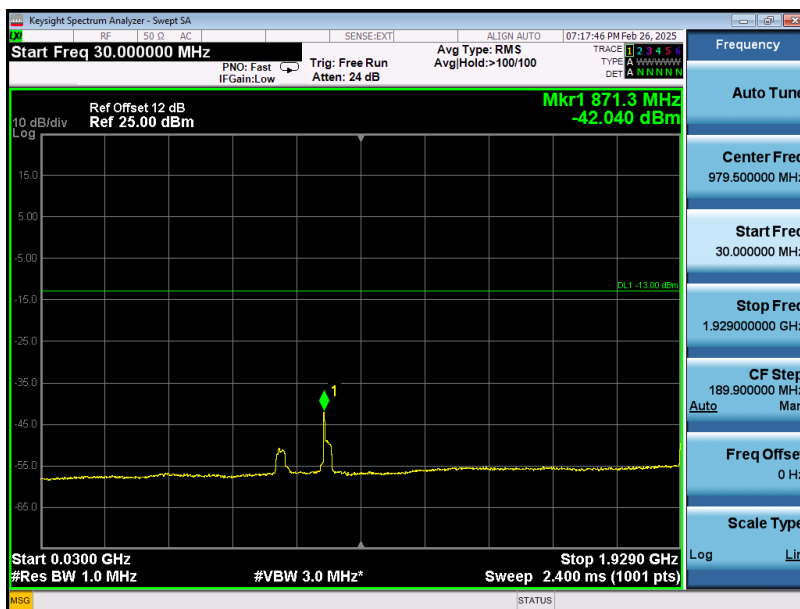


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Conducted spurious emissions

DL_MT4



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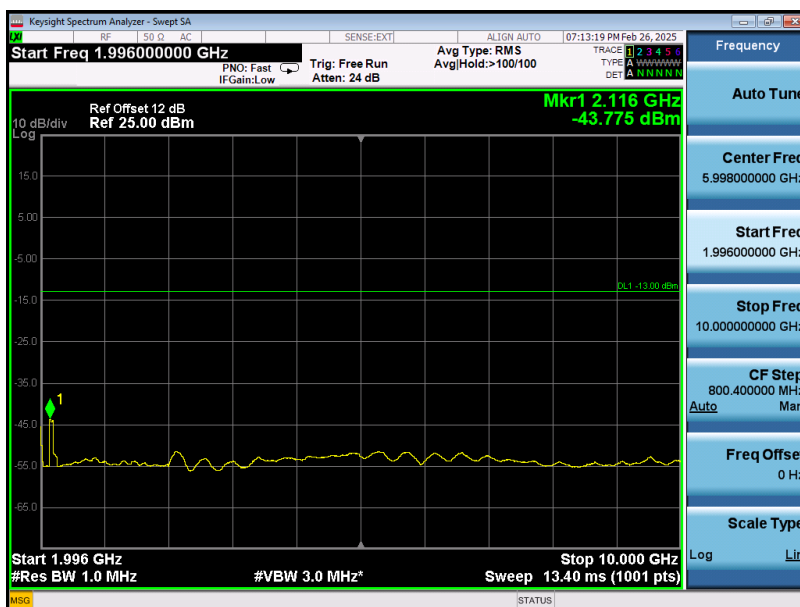
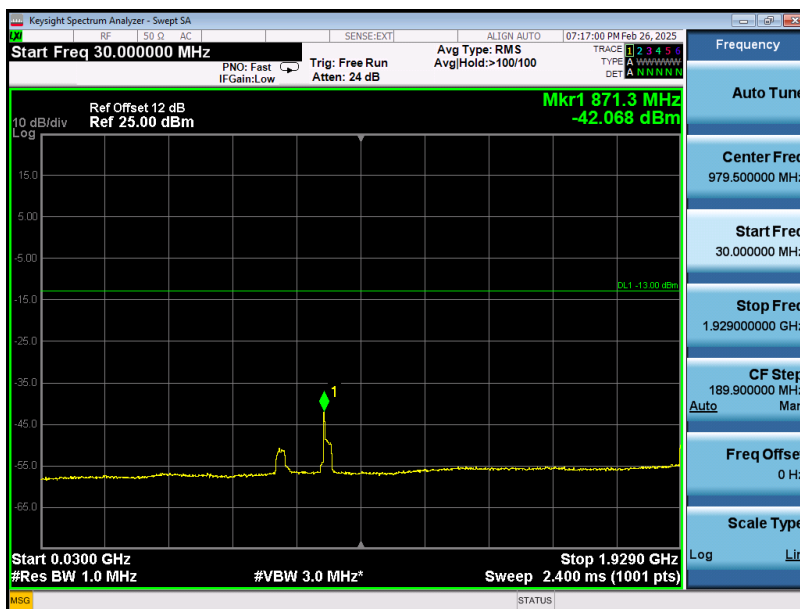
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Conducted spurious emissions

DL_MT5

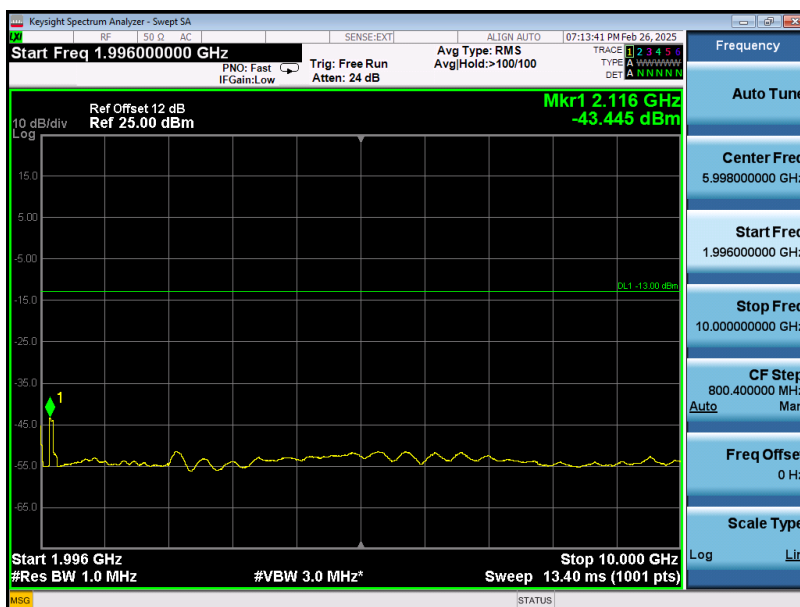
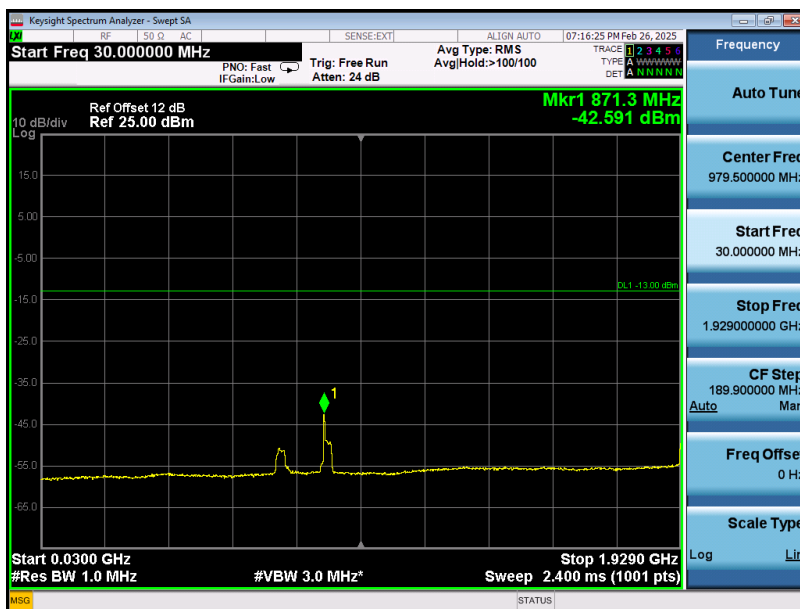


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Conducted spurious emissions

DL_MT6

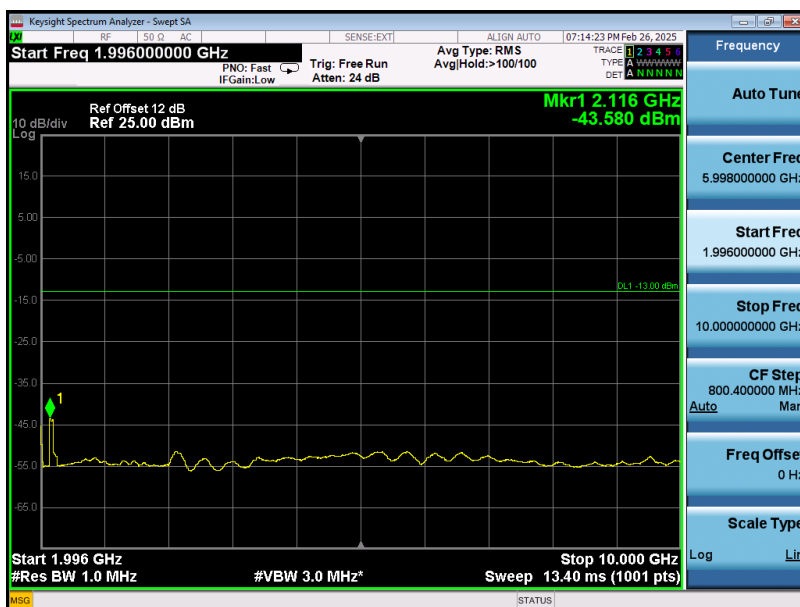
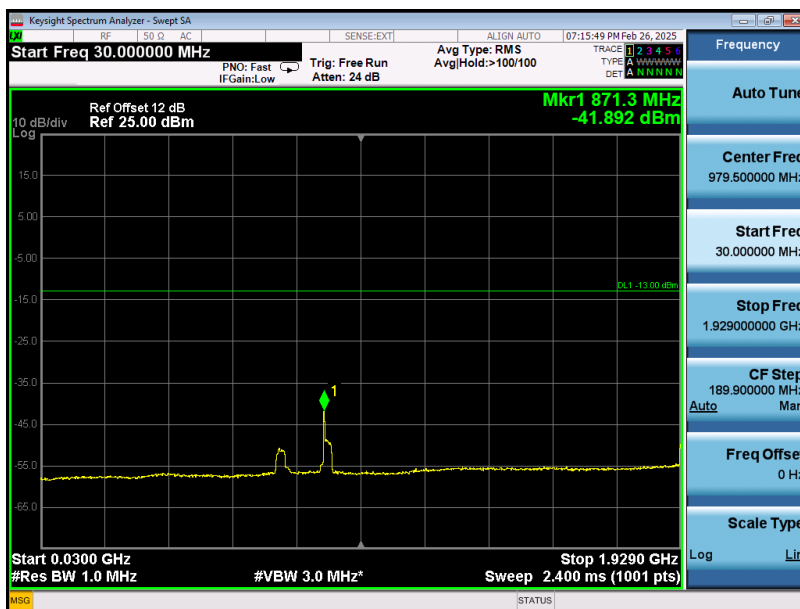


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Conducted spurious emissions

DL_MT7

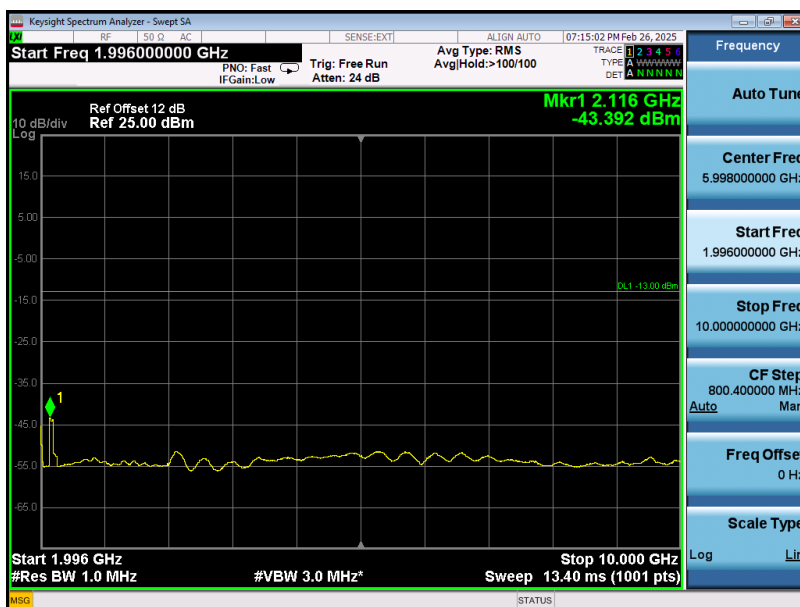
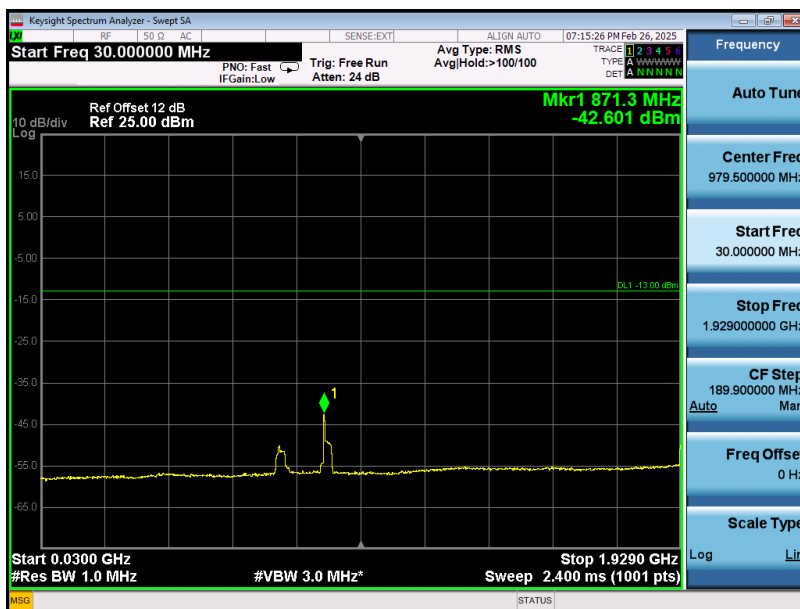


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Conducted spurious emissions

DL_MT7

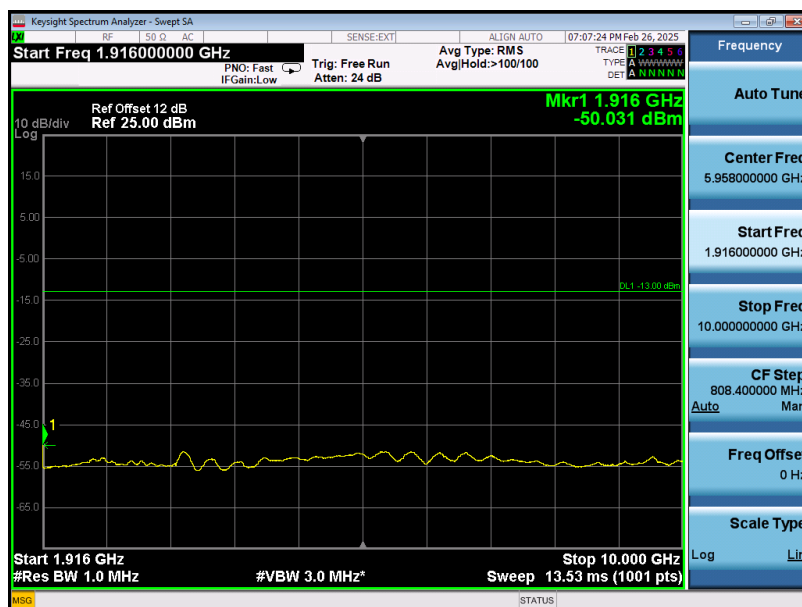
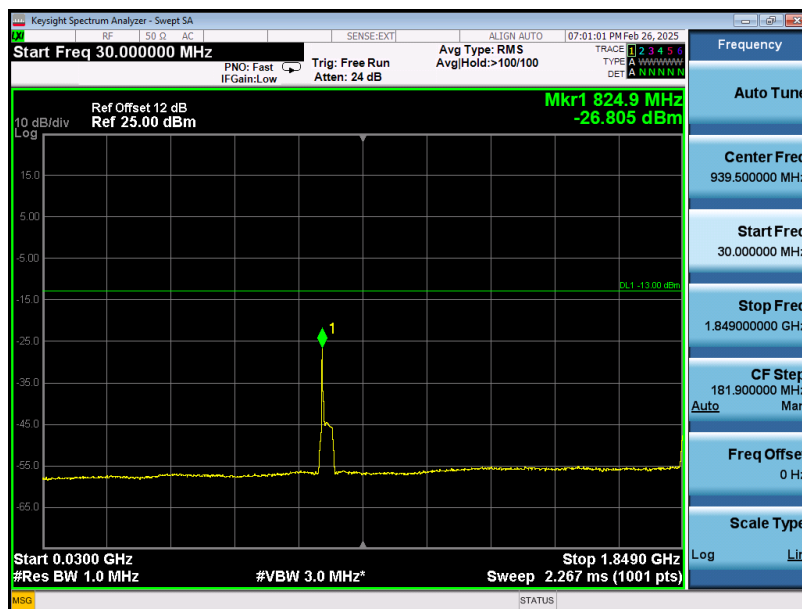


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Conducted spurious emissions

UL_DT



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8 Noise

8.1 Maximum transmitter noise power level

Maximum transmitter noise power level				
Test Path	Test Port	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	MT1	-47.08	≤ -37.0	PASS
	MT2	-46.96	≤ -37.0	PASS
	MT3	-46.05	≤ -37.0	PASS
	MT4	-46.42	≤ -37.0	PASS
	MT5	-46.43	≤ -37.0	PASS
	MT6	-46.60	≤ -37.0	PASS
	MT7	-46.22	≤ -37.0	PASS
	MT8	-46.63	≤ -37.0	PASS
Remark: The uplink mid-band frequency is 1882.5MHz for Broadband PCS, the maximum downlink noise limit is $-102.5\text{dBm/MHz} + 20 \text{ Log } (1882.5) = -37.0\text{dBm/MHz}$.				

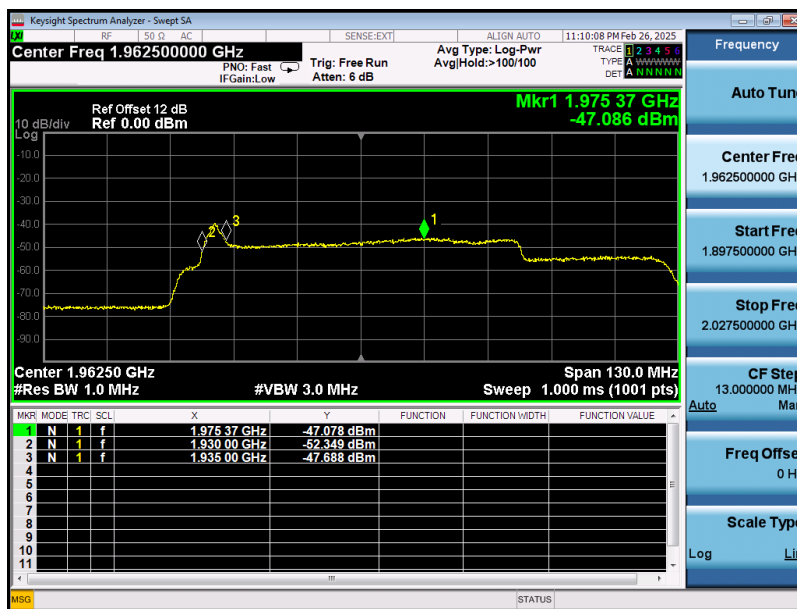


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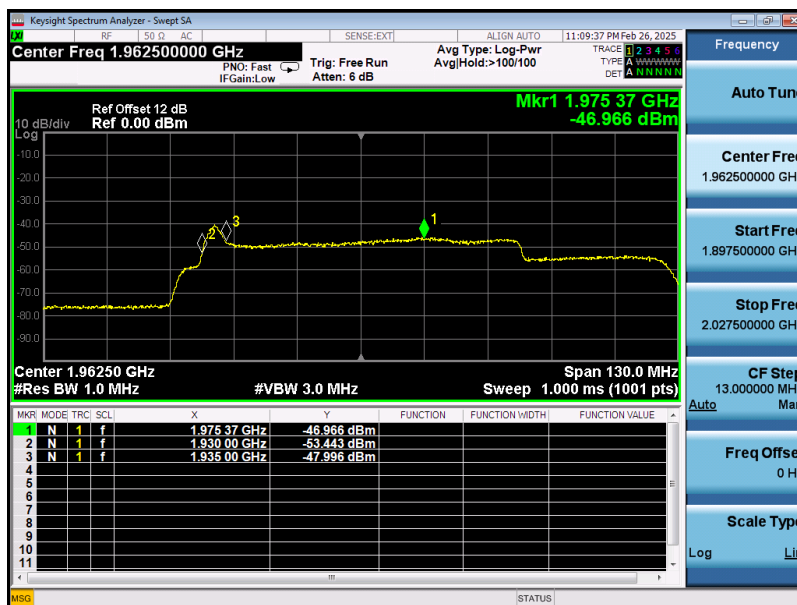
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Maximum transmitter Noise Power Level

DL_MT1



DL_MT2



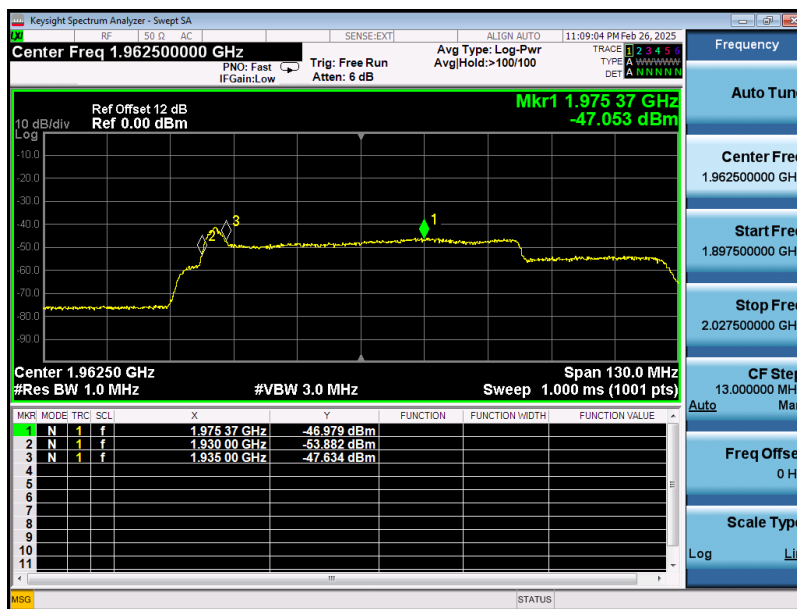
Remark:

Between Mkr 2 and Mkr 3 represents the authorized licensee spectrum block set for the EUT, the noise power within that does not need to be measured.

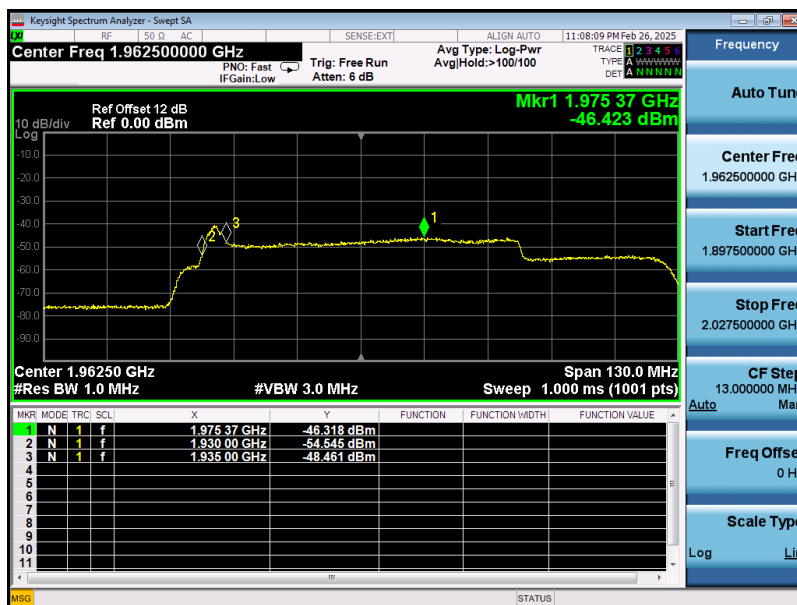


Maximum transmitter Noise Power Level

DL_MT3



DL_MT4



Remark:

Between Mkr 2 and Mkr 3 represents the authorized licensee spectrum block set for the EUT, the noise power within that does not need to be measured.



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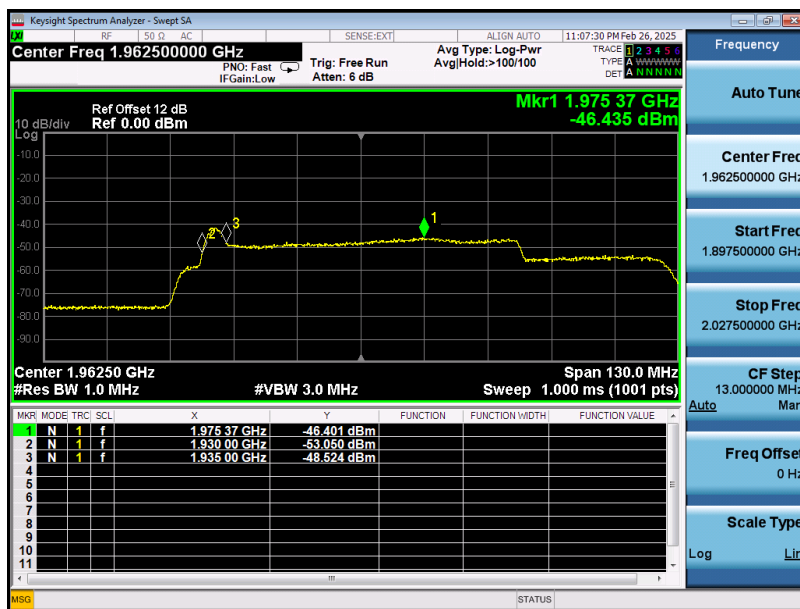
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

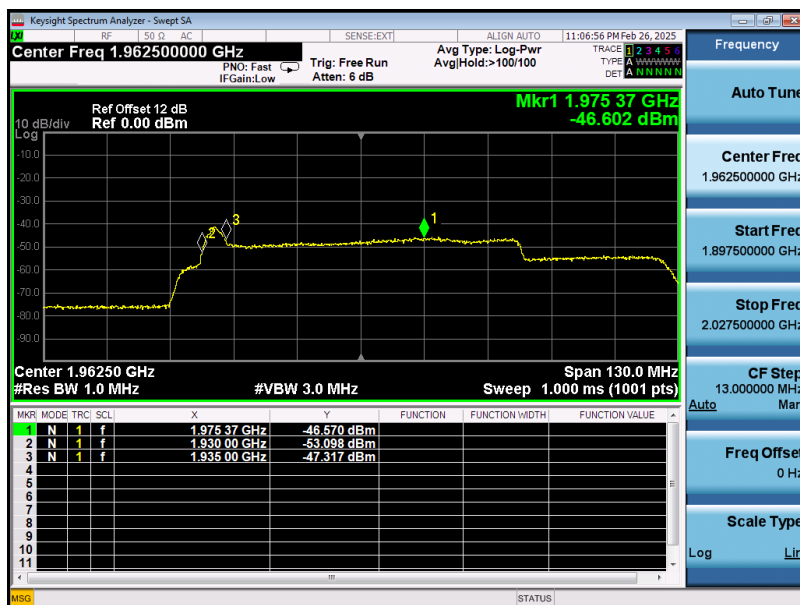
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Maximum transmitter Noise Power Level

DL_MT5



DL_MT6



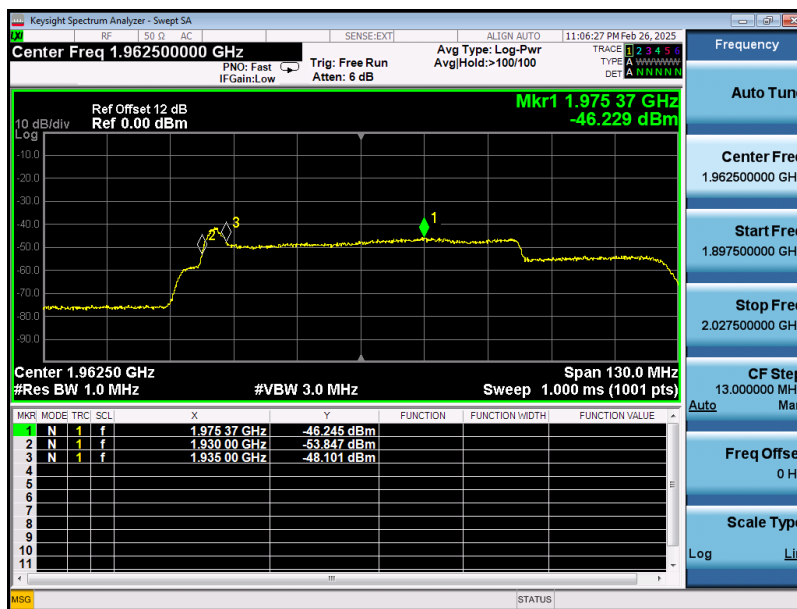
Remark:

Between Mkr 2 and Mkr 3 represents the authorized licensee spectrum block set for the EUT, the noise power within that does not need to be measured.

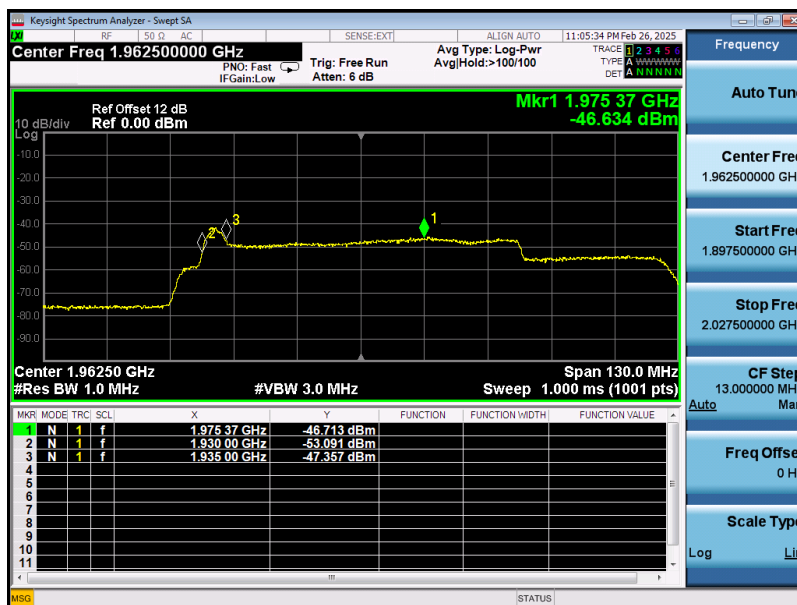


Maximum transmitter Noise Power Level

DL_MT7



DL_MT8



Remark:

Between Mkr 2 and Mkr 3 represents the authorized licensee spectrum block set for the EUT, the noise power within that does not need to be measured.



8.2 RSSI-dependent noise power level

20.21(e)(9)(i)(A) Noise Limits:

The transmitted noise power shall not exceed -103 dBm/MHz-RSSI. Boosters with MSCL less than 40 dB, shall reduce the Noise output in (A) by 40 dB-MSCL, where MSCL is the minimum coupling loss in dB between the wireless device and booster's server port.

According to appendix B and the declaration from the manufacturer, the Lowest MSCL value can be calculated:

Band	f (MHz)	d (m)	Service ANT Gain (dBi)	Cable Loss (dB)	Min. MSCL (dB)
Broadband PCS	1850	1.5	9	-9	41.3

Therefore, the transmitted noise power shall not exceed -103 dBm/MHz-RSSI-(40-MSCL)

20.21(e)(9)(i)(I) Transmit Power Off Mode:

The uplink and downlink noise power shall not exceed -70 dBm/MHz in "Transmit Power OFF Mode".

KDB 935210 D04 appendix D figure D1 provider-specific consumer signal booster variable noise limits:

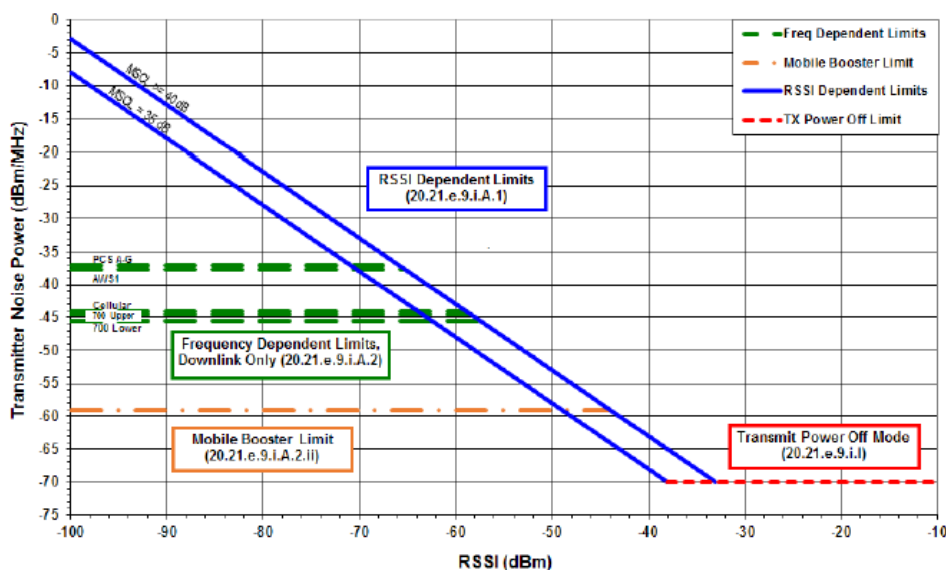


Figure D1 – Provider-specific consumer signal booster variable noise limits

Therefore, the RSSI-dependent region can be calculated as: -64.7dBm to -31.7dBm

RSSI-dependent noise power level					
Test Path	Test Port	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	MT7	-90	-46.22	≤-45.5	PASS
		-80	-47.64	≤-45.5	PASS
		-70	-48.19	≤-45.5	PASS
		-53	-50.21	≤-49.4	PASS
		-51	-55.83	≤-51.4	PASS
		-44	-64.38	≤-58.4	PASS
UL	DT	-90	-49.95	≤-45.5	PASS
		-80	-51.17	≤-45.5	PASS
		-70	-53.20	≤-45.5	PASS
		-53	-55.56	≤-49.4	PASS
		-51	-59.89	≤-51.4	PASS
		-44	-69.03	≤-58.4	PASS



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8.3 Variable noise response time

Variable noise response time				
Test Path	Test Port	Time (s)	Limit (s)	Verdict
DL	MT2	0.06	≤3	PASS
UL	DT	0.03	≤3	PASS

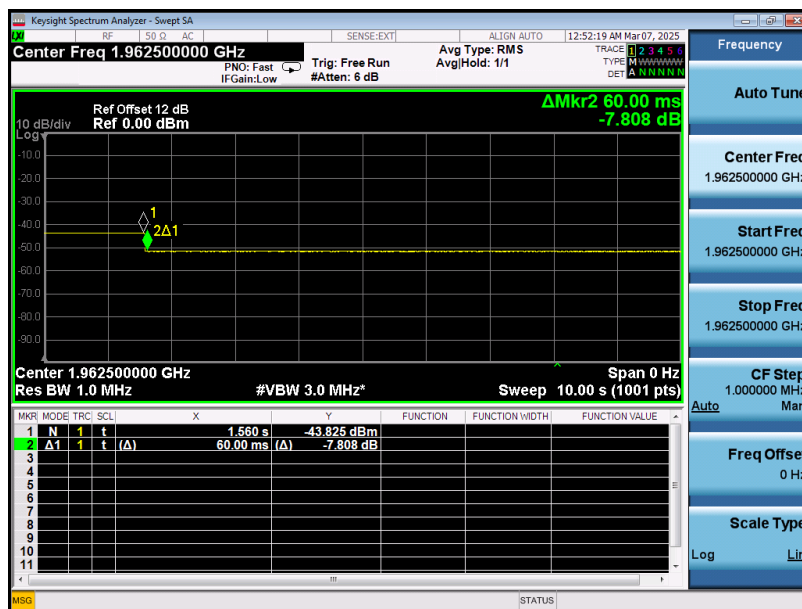


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Variable noise response time

DL



UL



9 Uplink inactivity

Uplink Inactivity						
Test Path	Test Port	Time (s)	limit (s)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	DT	0.12	≤5	-73.20	≤-70	PASS

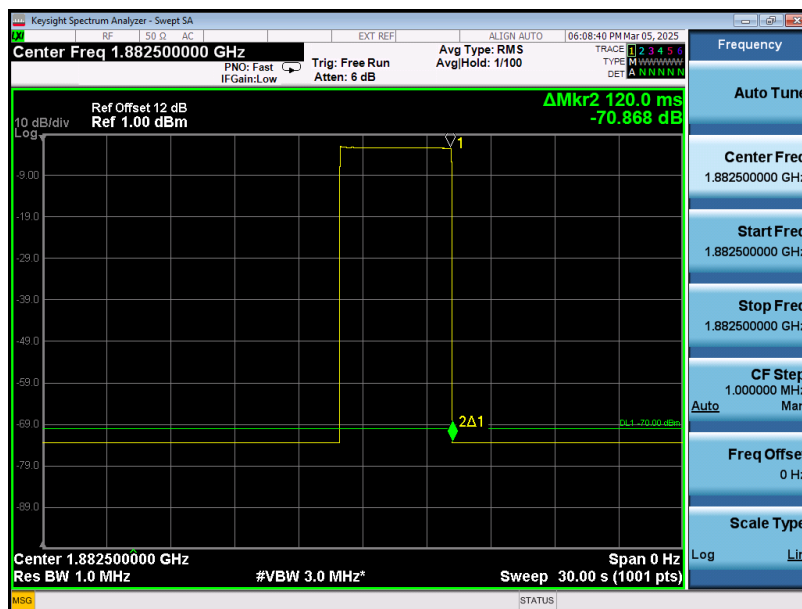


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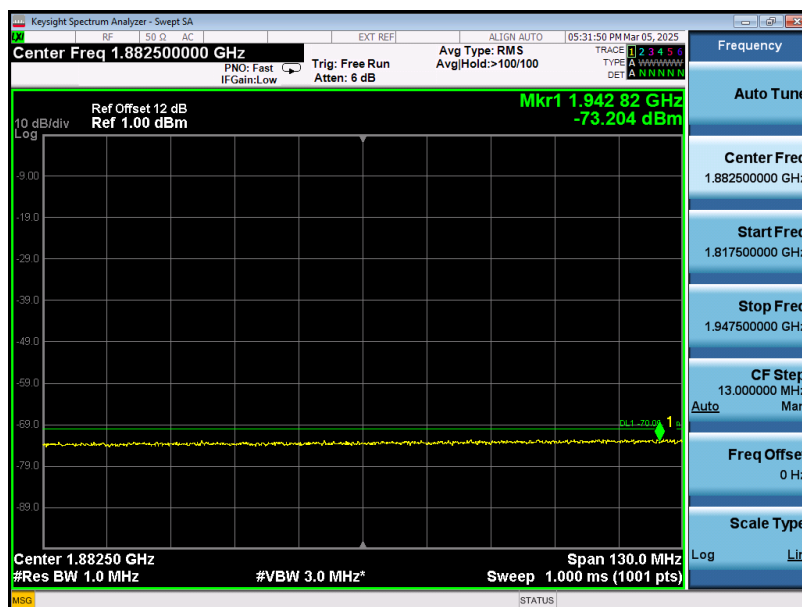
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Uplink inactivity

UL_Time



UL_Noise power



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10 Variable booster gain

10.1 Variable gain

20.21(e)(9)(i)(C)(1) Booster Gain Limits:

The uplink and downlink gain in dB of a frequency selective consumer booster referenced to its input and output ports shall not exceed BSCL-28 dB-(40 dB-MSCL).

20.21(e)(9)(i)(I) Transmit Power Off Mode:

The uplink gain shall not exceed the lesser of 23 dB or MSCL in "Transmit Power OFF Mode".

KDB 935210 D04 appendix D figure D2 provider-specific consumer signal booster variable gain limits:

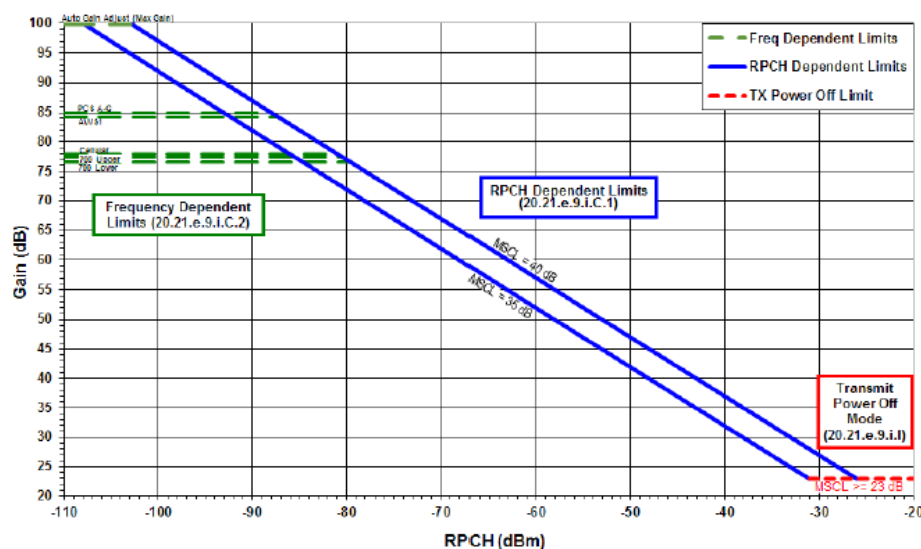


Figure D2 – Provider-specific consumer signal booster variable gain limits

According to appendix B and the declaration from the manufacturer, the Lowest MSCL value can be calculated:

Band	f (MHz)	d (m)	Service ANT Gain (dBi)	Cable Loss (dB)	Min. MSCL (dB)
Broadband PCS	1850	1.5	9	-9	41.3

Therefore, the RSSI-dependent region can be calculated as (RPCH): -101.7dBm to -24.7dBm

Variable Gain							
Test Path	Test Port	RPCH (dBm)	BSCL (dBm)	Pout (dBm)	Gain (dB)	Limit (dB)	Verdict
DL	MT4	-90	115	-19.85	70.15	≤88.3	PASS
		-85	110	-15.64	69.36	≤83.3	PASS
		-64	89	-6.46	57.54	≤62.3	PASS
		-48	73	-14.73	33.27	≤46.3	PASS
		-41	66	-10.43	30.57	≤39.3	PASS
		-20	45	/	/	≤23	PASS
UL	DT	-90	115	14.09	65.59	≤88.3	PASS
		-85	110	11.53	63.03	≤83.3	PASS
		-64	89	8.69	60.19	≤62.3	PASS
		-48	73	-16.82	34.68	≤46.3	PASS
		-41	66	-21.57	29.93	≤39.3	PASS
		-20	45	/	/	≤23	PASS
Remark: 1. "/" presents the EUT shut down. It can demonstrate compliance to the gain limit because the EUT lost amplification ability when it was in shutdown mode. 2. For UL, the input signal levels were set to -51.5dBm.							



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10.2 Variable gain timing

Variable Uplink Gain Timing				
Test Path	Test Port	Time (s)	Limit (s)	Verdict
UL	DT	0.055	≤3	PASS



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11 Occupied bandwidth

Occupied Bandwidth				
Path	Test Port	Test Channel	Input Signal	Verdict
DL	MT1	Middle	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
UL	DT	Middle	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
Remark: Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.				



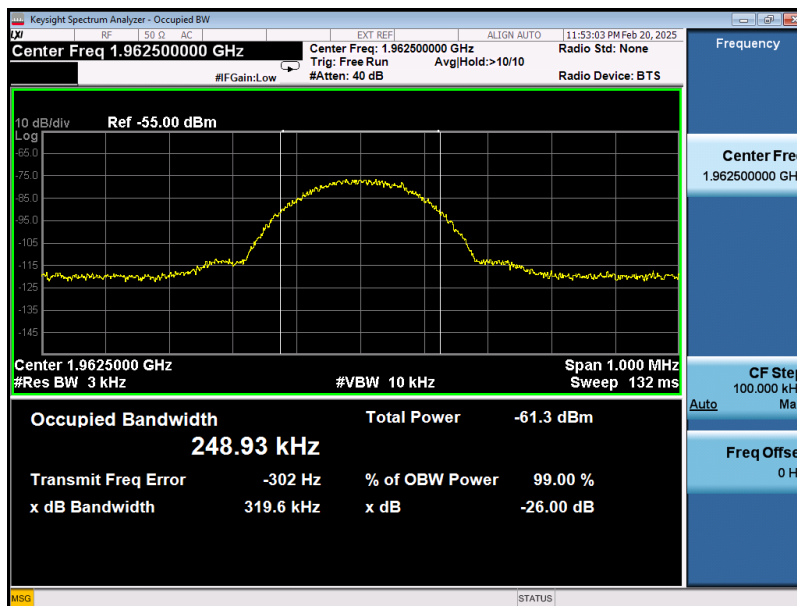
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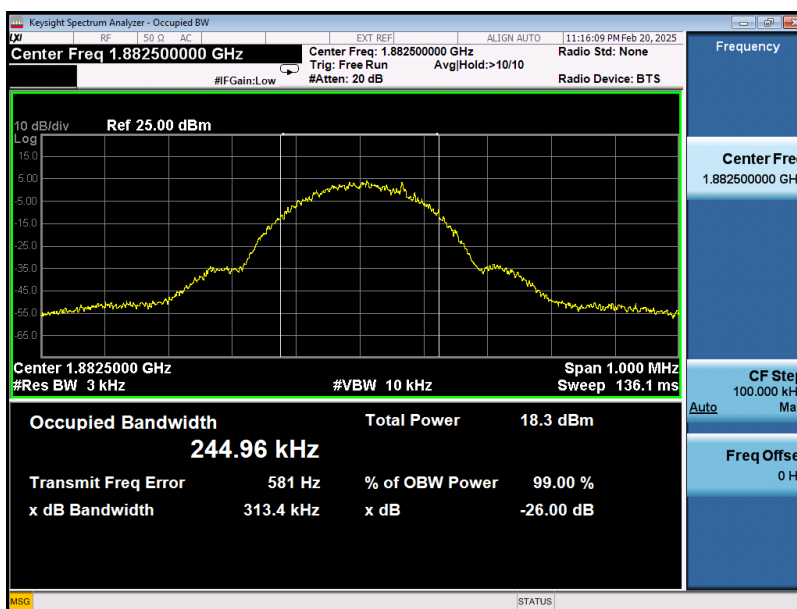
Occupied bandwidth

DL_Middle channel_GSM signal type

Input



Output



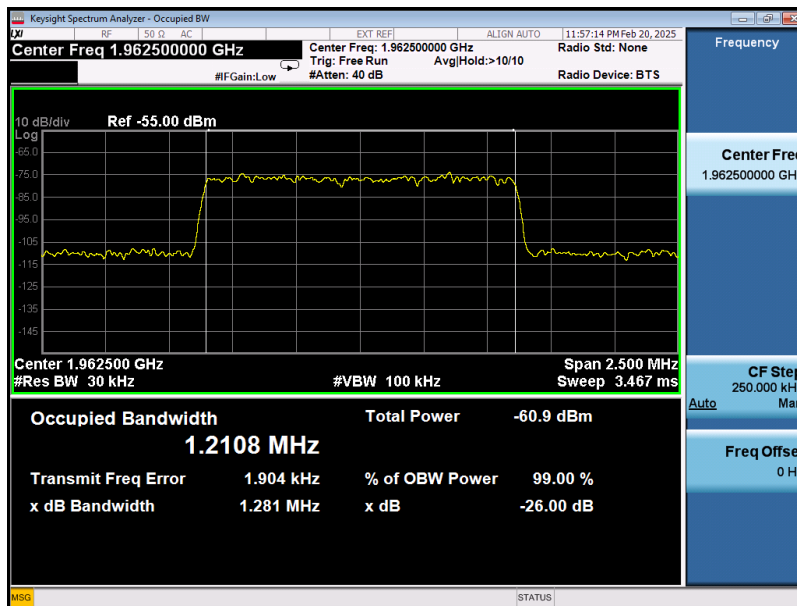
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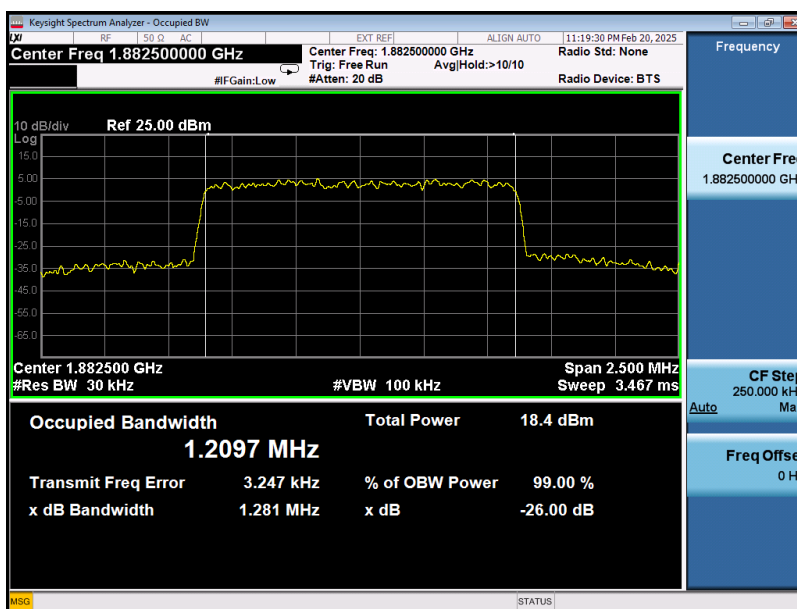
Occupied bandwidth

DL_Middle channel_1.25MHz AWGN signal type

Input



Output



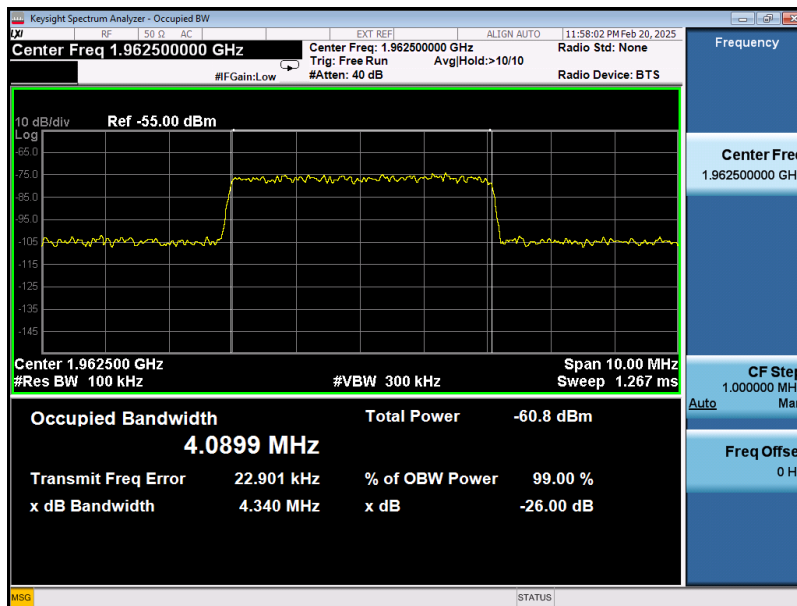
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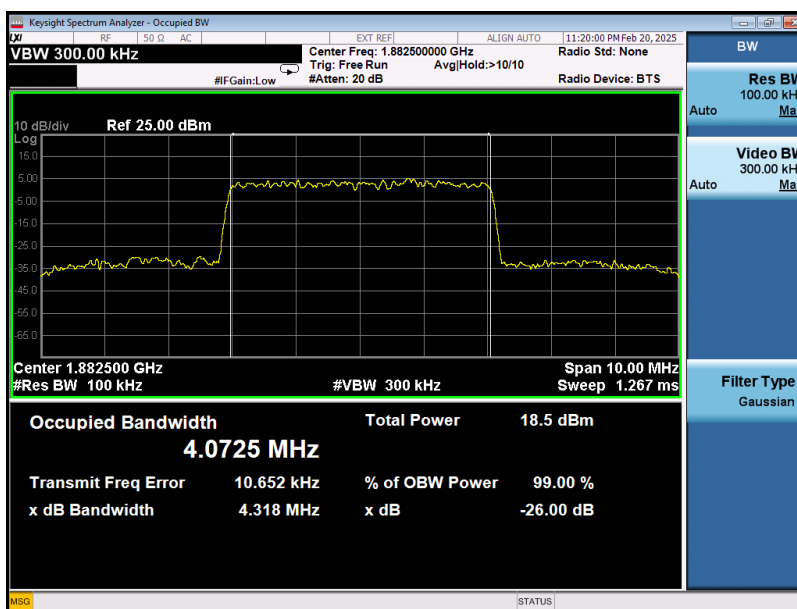
Occupied bandwidth

DL_Middle channel_4.1MHz AWGN signal type

Input



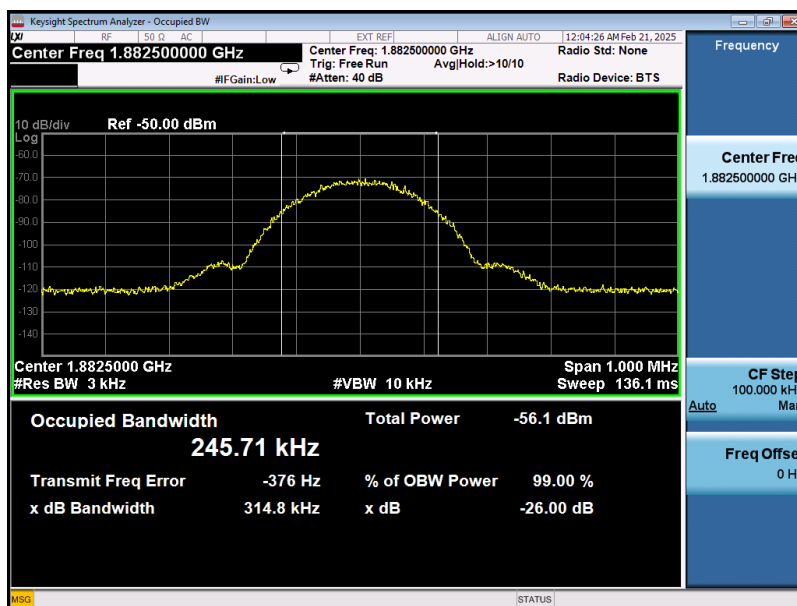
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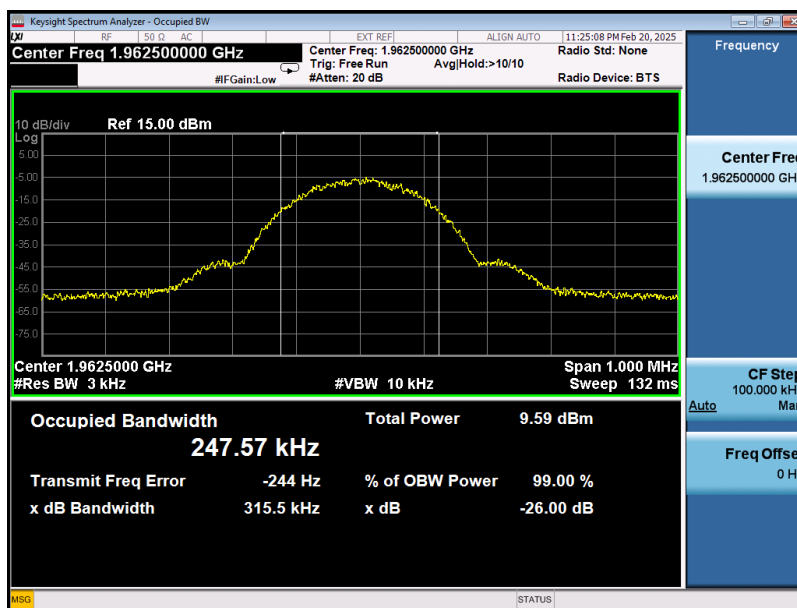
Occupied bandwidth

UL_Middle channel_GSM signal type

Input



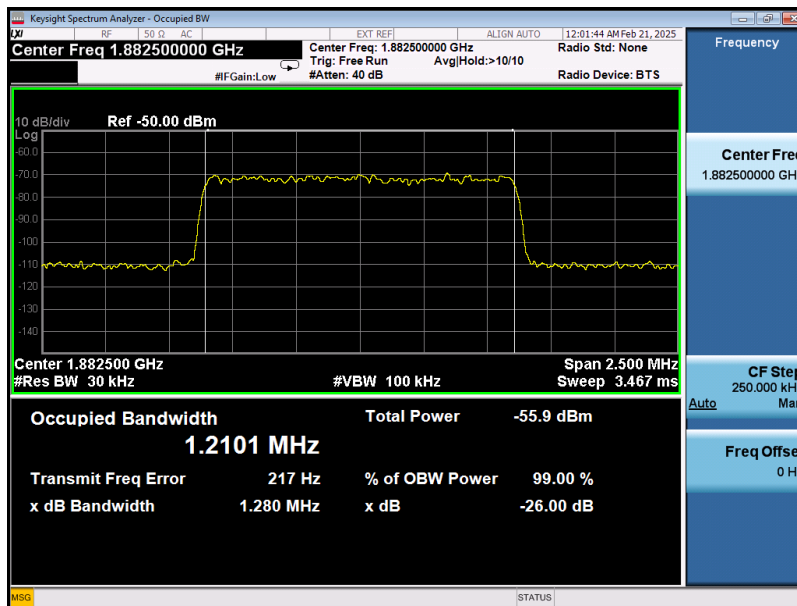
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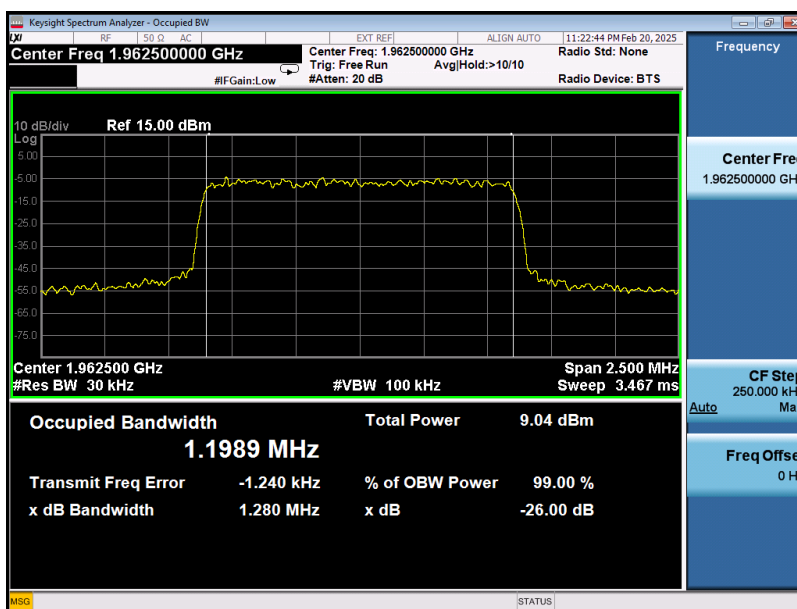
Occupied bandwidth

UL_Middle channel_1.25MHz AWGN signal type

Input



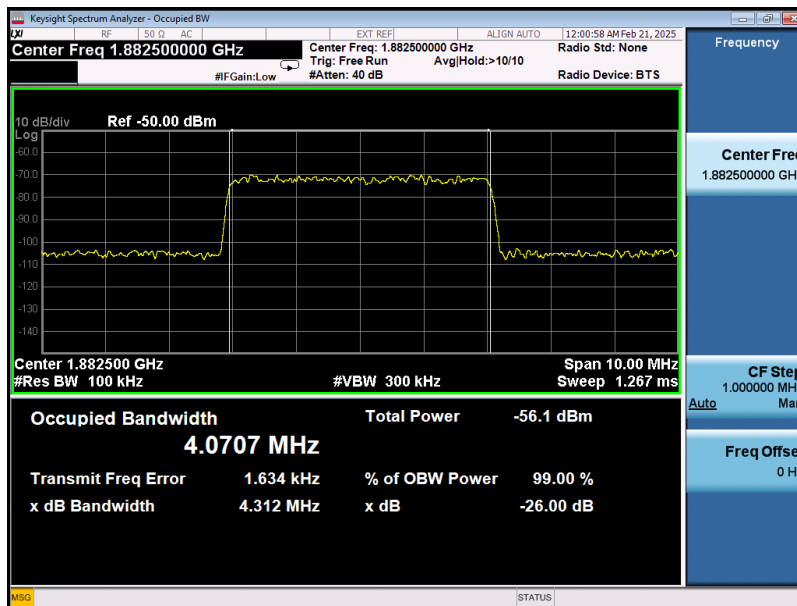
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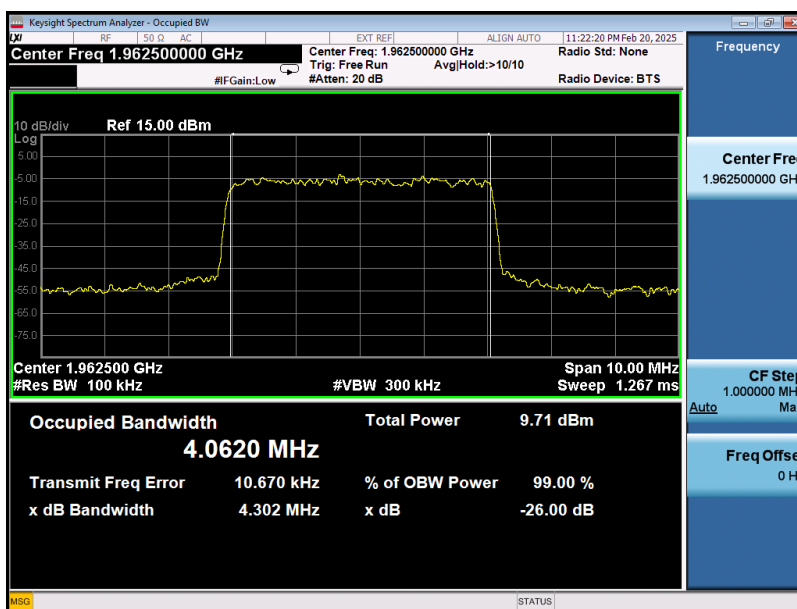
Occupied bandwidth

UL_Middle channel_4.1MHz AWGN signal type

Input



Output



12 Oscillation detection

12.1 Oscillation detection

Oscillation Detection									
Test Path	Test Port	Mitigation Time (s)	Limit (s)	Oscillation Level (dBm)	Number of Restart	Limit	Restart time (s)	Limit (s)	Verdict
DL	MT1	0.230	≤1	4.11	0	≤5	/	≥60	PASS
	MT2	0.250		2.25	0		/		PASS
	MT3	0.315		1.91	0		/		PASS
	MT4	0.245		1.10	0		/		PASS
	MT5	0.120		1.10	0		/		PASS
	MT6	0.245		2.82	0		/		PASS
	MT7	0.235		4.31	0		/		PASS
	MT8	0.270		3.01	0		/		PASS
UL	DT	0.040	≤0.3	13.98	0	≤5	/	≥60	PASS
Remark: The EUT will not restart after oscillation detection and mitigation. It can demonstrate compliance to the restart limit without restart time testing.									

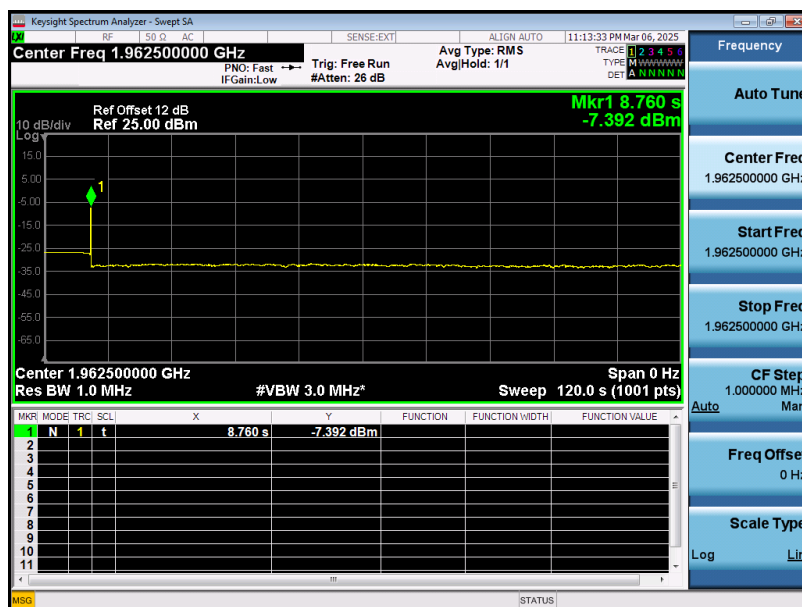


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Oscillation detection

DL_MT1



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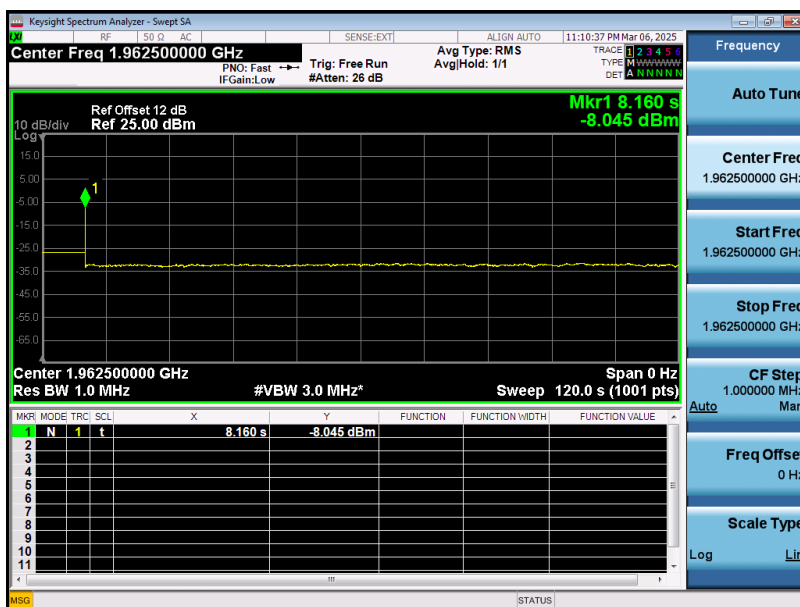
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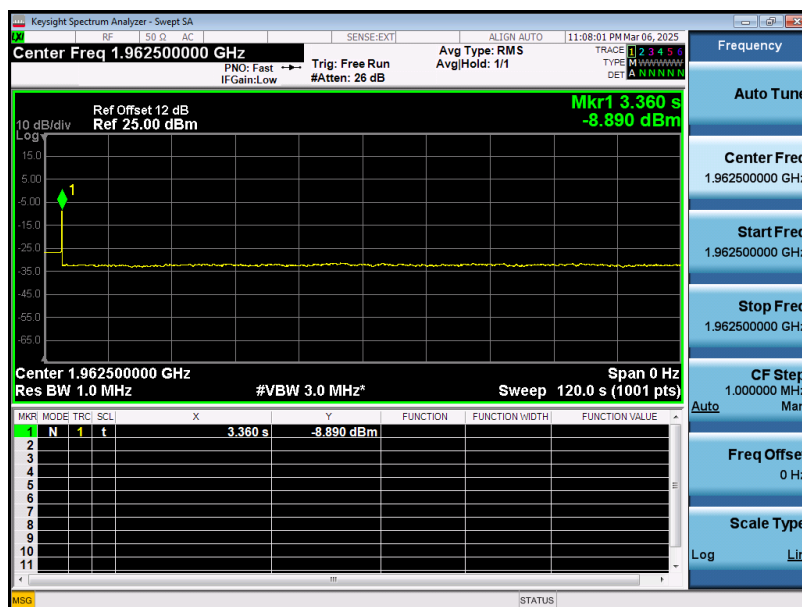
Oscillation detection

DL_MT2



Oscillation detection

DL_MT3



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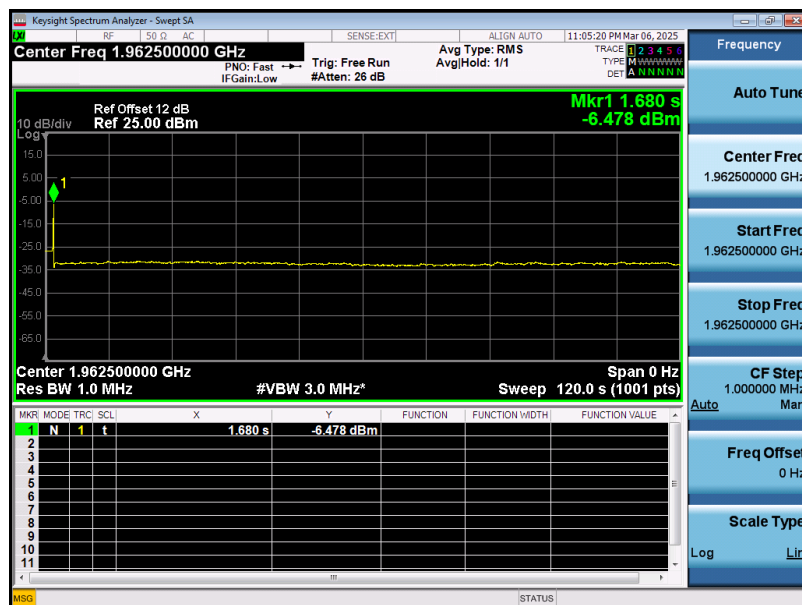
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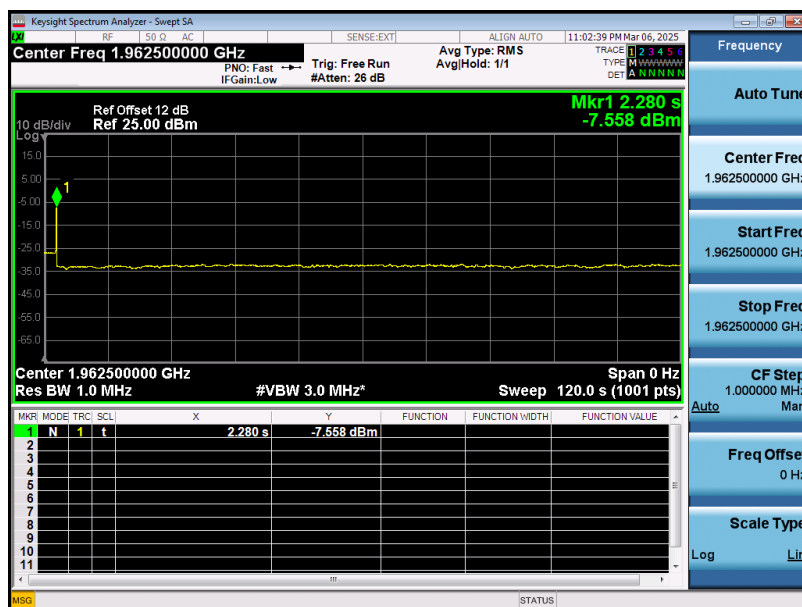
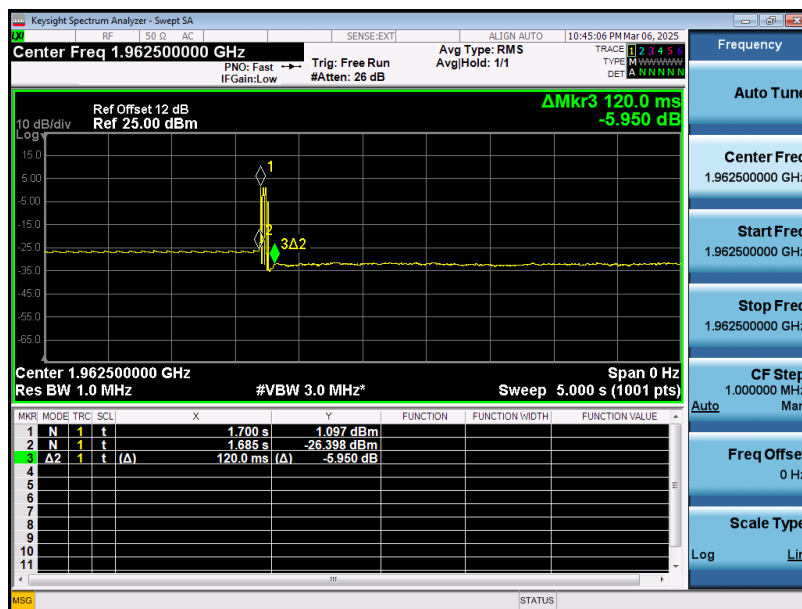
Oscillation detection

DL_MT4



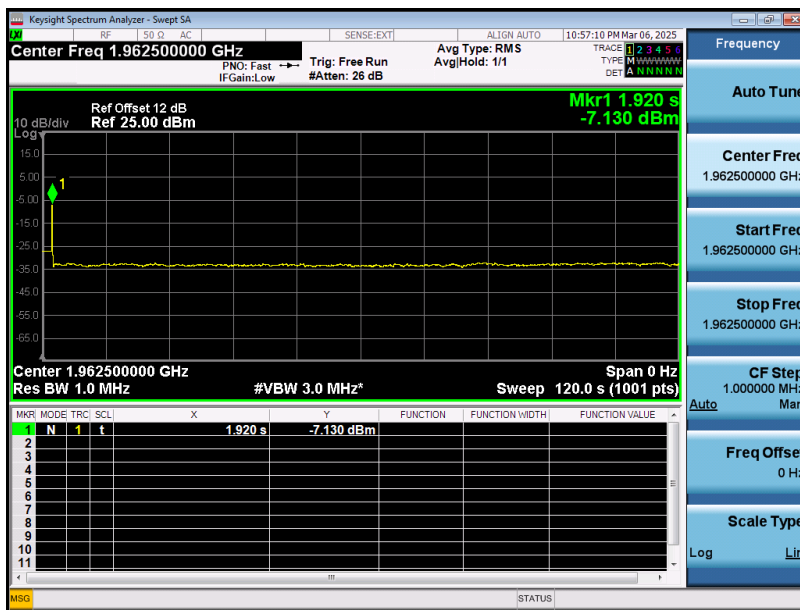
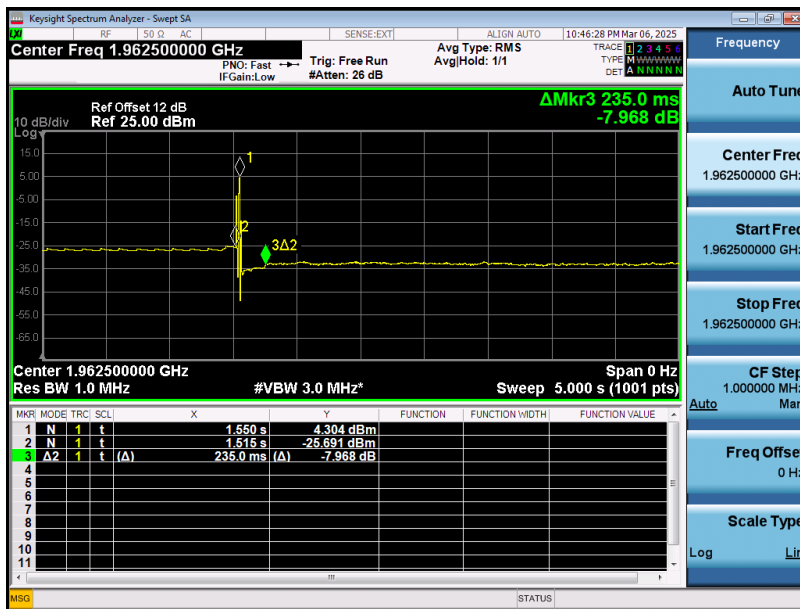
Oscillation detection

DL_MT5



Oscillation detection

DL_MT7

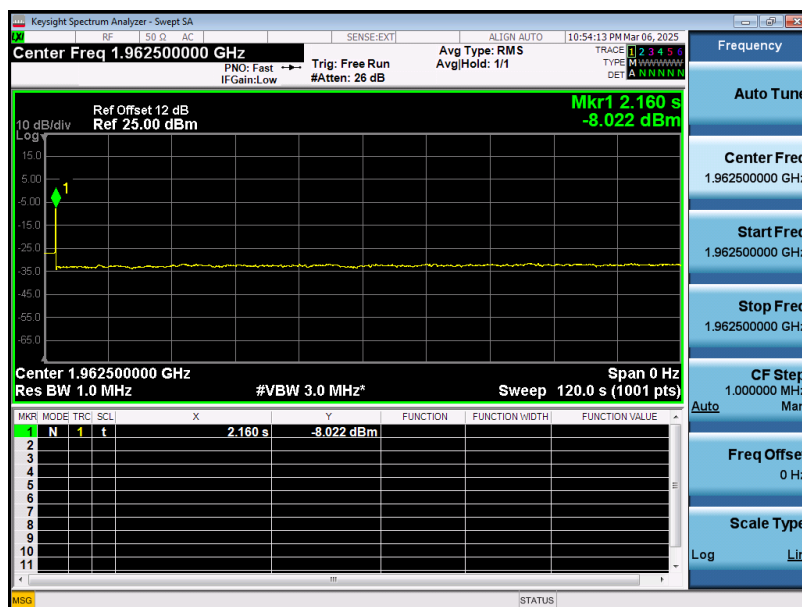


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Oscillation detection

DL_MT8



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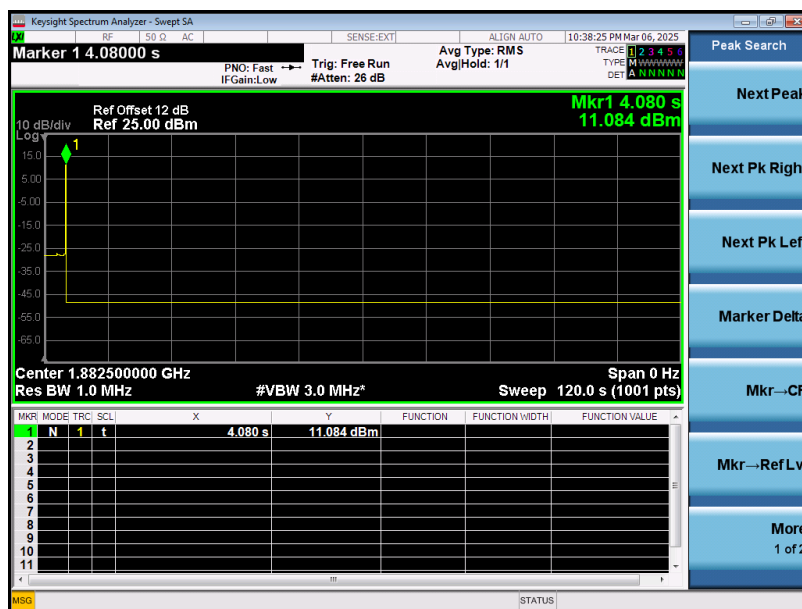
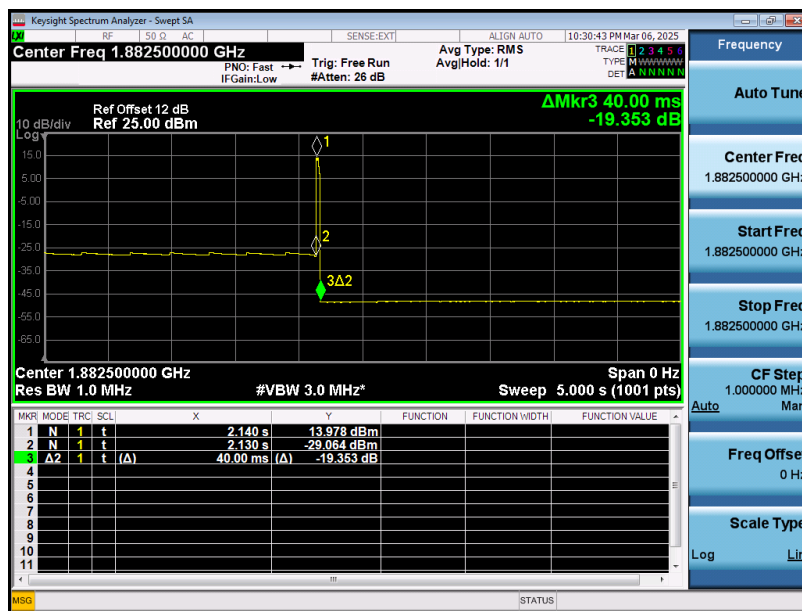
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Oscillation detection

UL_DT



12.2 Oscillation mitigation or shutdown

Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT1	74.46	0.73	-6.21	6.94	≤12	PASS
		73.46	1.32	-4.83	6.15		PASS
		72.46	2.01	-3.67	5.68		PASS
		71.46	2.69	-3.04	5.73		PASS
		70.46	3.10	-2.27	5.37		PASS
		69.46	4.23	-1.84	6.07		PASS
		68.46	5.63	2.31	3.32		PASS
		67.46	5.98	2.93	3.05		PASS
		66.46	/	/	/		PASS
		65.46	/	/	/		PASS
		64.46	/	/	/		PASS
	MT2	74.11	-2.84	-7.43	4.59	≤12	PASS
		73.11	-0.72	-5.73	5.01		PASS
		72.11	1.01	-5.03	6.04		PASS
		71.11	1.75	-4.85	6.60		PASS
		70.11	2.32	-3.27	5.59		PASS
		69.11	3.06	-2.54	5.60		PASS
		68.11	4.33	-1.43	5.76		PASS
		67.11	4.97	-0.37	5.34		PASS
		66.11	/	/	/		PASS
		65.11	/	/	/		PASS
		64.11	/	/	/		PASS

Remark:

"/" presents the EUT shut down.



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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT3	75.16	-4.25	-7.95	3.70	≤12	PASS
		74.16	-2.28	-5.95	3.67		PASS
		73.16	-0.64	-5.43	4.79		PASS
		72.16	1.06	-4.75	5.81		PASS
		71.16	2.00	-4.08	6.08		PASS
		70.16	3.17	-3.28	6.45		PASS
		69.16	3.89	-2.37	6.26		PASS
		68.16	5.46	1.18	4.28		PASS
		67.16	/	/	/		PASS
		66.16	/	/	/		PASS
		65.16	/	/	/		PASS
	MT4	75.19	-5.22	-11.42	6.20	≤12	PASS
		74.19	-4.88	-9.32	4.44		PASS
		73.19	-3.75	-8.04	4.29		PASS
		72.19	-3.04	-7.81	4.77		PASS
		71.19	-2.64	-6.37	3.73		PASS
		70.19	-0.34	-4.88	4.54		PASS
		69.19	1.35	-4.02	5.37		PASS
		68.19	3.85	-2.54	6.39		PASS
		67.19	/	/	/		PASS
		66.19	/	/	/		PASS
		65.19	/	/	/		PASS

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT5	74.64	-1.83	-6.94	5.11	≤12	PASS
		73.64	0.07	-5.32	5.39		PASS
		72.64	1.12	-4.02	5.14		PASS
		71.64	1.98	-3.27	5.25		PASS
		70.64	3.74	-2.83	6.57		PASS
		69.64	4.31	0.62	3.69		PASS
		68.64	5.83	1.18	4.65		PASS
		67.64	6.15	2.06	4.09		PASS
		66.64	/	/	/		PASS
		65.64	/	/	/		PASS
		64.64	/	/	/		PASS
	MT6	75.04	-4.32	-11.22	6.90	≤12	PASS
		74.04	-2.83	-10.04	7.21		PASS
		73.04	0.05	-6.64	6.69		PASS
		72.04	1.67	-5.74	7.41		PASS
		71.04	2.86	-3.19	6.05		PASS
		70.04	3.37	-1.84	5.21		PASS
		69.04	4.75	-1.10	5.85		PASS
		68.04	5.58	-0.63	6.21		PASS
		67.04	/	/	/		PASS
		66.04	/	/	/		PASS
		65.04	/	/	/		PASS

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT7	74.62	-1.85	-6.89	5.04	≤12	PASS
		73.62	0.06	-5.03	5.09		PASS
		72.62	1.65	-4.84	6.49		PASS
		71.62	2.11	-4.12	6.23		PASS
		70.62	2.75	-3.48	6.23		PASS
		69.62	3.29	-2.03	5.32		PASS
		68.62	4.32	-0.19	4.51		PASS
		67.62	5.84	0.54	5.30		PASS
		66.62	/	/	/		PASS
		65.62	/	/	/		PASS
		64.62	/	/	/		PASS
	MT8	74.70	-5.03	-11.03	6.00	≤12	PASS
		73.70	-4.55	-9.02	4.47		PASS
		72.70	-3.47	-7.94	4.47		PASS
		71.70	-2.46	-6.36	3.90		PASS
		70.70	0.46	-4.95	5.41		PASS
		69.70	1.97	-4.32	6.29		PASS
		68.70	3.18	-2.95	6.13		PASS
		67.70	5.32	-0.64	5.96		PASS
		66.70	/	/	/		PASS
		65.70	/	/	/		PASS
		64.70	/	/	/		PASS

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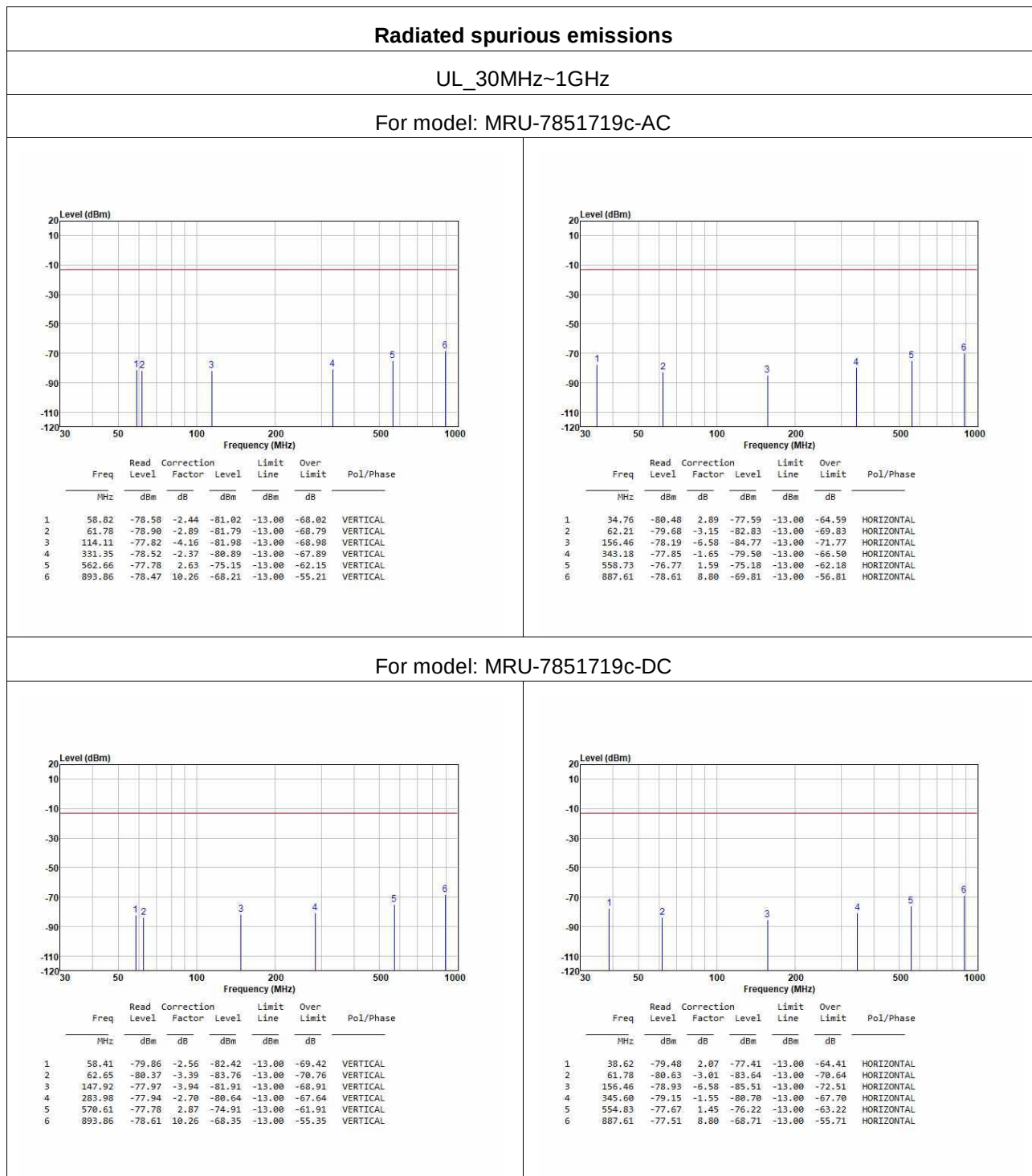
Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
UL	DT	70.66	5.71	0.94	4.77	≤12	PASS
		69.66	7.04	2.94	4.10		PASS
		68.66	9.74	4.15	5.59		PASS
		67.66	10.99	5.94	5.05		PASS
		66.66	11.63	6.73	4.90		PASS
		65.66	13.89	8.94	4.95		PASS
		64.66	15.34	10.19	5.15		PASS
		63.66	/	/	/		PASS
		62.66	/	/	/		PASS
		61.66	/	/	/		PASS
		60.66	/	/	/		PASS
Remark: “/” presents the EUT shut down.							



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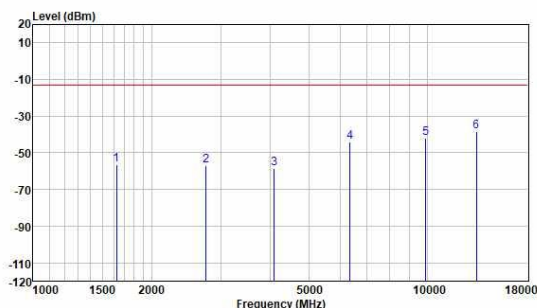
13 Radiated spurious emissions



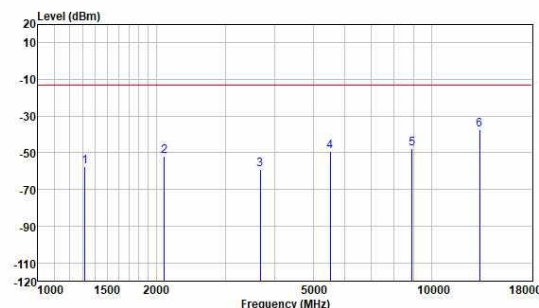
Radiated spurious emissions

UL_above 1GHz

For model: MRU-7851719c-AC

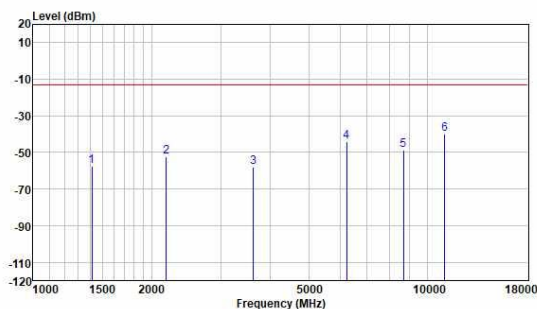


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1629.83	-61.24	5.01	-56.23	-13.00	-43.23	VERTICAL
2	2742.14	-61.48	4.63	-56.85	-13.00	-43.85	VERTICAL
3	4086.18	-62.25	3.79	-58.46	-13.00	-45.46	VERTICAL
4	6358.79	-63.62	19.31	-44.31	-13.00	-31.31	VERTICAL
5	9895.95	-61.49	19.58	-41.91	-13.00	-28.91	VERTICAL
6	13288.28	-64.11	25.76	-38.35	-13.00	-25.35	VERTICAL

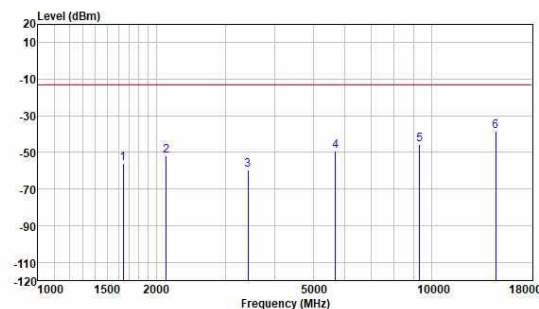


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1315.99	-61.25	3.99	-57.26	-13.00	-44.26	HORIZONTAL
2	2095.80	-61.44	9.56	-51.88	-13.00	-38.88	HORIZONTAL
3	3671.75	-62.94	3.98	-58.96	-13.00	-45.96	HORIZONTAL
4	5519.07	-63.73	14.34	-49.39	-13.00	-36.39	HORIZONTAL
5	8917.46	-62.47	14.90	-47.57	-13.00	-34.57	HORIZONTAL
6	13211.69	-63.90	26.48	-37.42	-13.00	-24.42	HORIZONTAL

For model: MRU-7851719c-DC



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1410.51	-61.70	4.31	-57.39	-13.00	-44.39	VERTICAL
2	2176.05	-61.64	9.35	-52.29	-13.00	-39.29	VERTICAL
3	3619.06	-62.78	4.68	-58.10	-13.00	-45.10	VERTICAL
4	6231.43	-63.10	18.91	-44.19	-13.00	-31.19	VERTICAL
5	8688.48	-62.68	13.97	-48.71	-13.00	-35.71	VERTICAL
6	11044.13	-64.37	24.50	-39.87	-13.00	-26.87	VERTICAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1648.78	-61.61	5.75	-55.86	-13.00	-42.86	HORIZONTAL
2	2120.17	-61.12	9.44	-51.68	-13.00	-38.68	HORIZONTAL
3	3415.79	-61.98	2.38	-59.60	-13.00	-46.60	HORIZONTAL
4	5697.37	-63.05	13.95	-49.10	-13.00	-36.10	HORIZONTAL
5	9312.59	-62.78	16.96	-45.82	-13.00	-32.82	HORIZONTAL
6	14533.91	-62.81	24.35	-38.46	-13.00	-25.46	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.



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14 Spectrum blocking filtering

Spectrum blocking filtering			
UL filter attenuation (dB)	DL filter attenuation (dB)	Limit	Verdict
54.82	49.13	UL ≥ DL	PASS
Remark: Please refer to clause 1 “Authorized frequency band verification” test plots for more details.			



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15 Out of band gain

Out of band gain								
Test Path	Test Port	Offset (MHz)	Gain (dB)		ATT (dB)		ATT Limit (dB)	Verdict
			Low edge	High edge	Low edge	High edge		
DL	MT7	f _c	69.59		/		/	/
		0	43.54	41.84	-27.73	-29.43	≤-20	PASS
		1	37.46	33.28	-33.81	-37.99	≤-30	PASS
		5	27.34	21.43	-43.93	-49.84	≤-40	PASS
UL	DT	f _c	65.58		/		/	/
		0	40.57	37.45	-24.93	-28.05	≤-20	PASS
		1	25.74	29.53	-39.76	-35.97	≤-30	PASS
		5	21.95	19.53	-43.55	-45.97	≤-40	PASS
Remark:								
1. f _c is the centre frequency of the pass band of the EUT.								
2. ATT is the attenuation referenced to the gain in f _c .								

Out of band gain						
Test Path	Test Port	Offset (MHz)	Gain (dB)		Gain Limit (dB)	Verdict
			Low edge	High edge		
DL	MT1	0.2	40.35	39.46	≤ 60	PASS
		1	37.46	33.28	≤ 45	PASS
UL	DT	0.2	35.43	40.95	≤ 60	PASS
		1	25.74	29.53	≤ 45	PASS



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16 Frequency Stability

Frequency stability vs temperature							
Test Path	Test Port	Test Channel	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MT1	Middle	VN	+50	2.8	0.00143	PASS
				+40	2.9	0.00148	PASS
				+30	3.9	0.00199	PASS
				+20	3.0	0.00153	PASS
				+10	2.5	0.00127	PASS
				0	4.0	0.00204	PASS
				-10	3.7	0.00189	PASS
				-20	4.1	0.00209	PASS
				-30	4.0	0.00204	PASS
UL	DT	Middle	VN	+50	4.2	0.00223	PASS
				+40	3.1	0.00165	PASS
				+30	2.8	0.00149	PASS
				+20	3.4	0.00181	PASS
				+10	4.3	0.00228	PASS
				0	2.6	0.00138	PASS
				-10	3.0	0.00159	PASS
				-20	3.0	0.00159	PASS
				-30	3.7	0.00197	PASS



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Frequency stability vs voltage							
Test Path	Test Port	Test Channel	Test Temp.	Test Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MT1	Middle	TN	VL	3.0	0.00153	PASS
				VN	3.0	0.00153	PASS
				VH	3.0	0.00153	PASS
UL	DT	Middle	TN	VL	3.4	0.00181	PASS
				VN	3.4	0.00181	PASS
				VH	3.4	0.00181	PASS

--End of Appendix--



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