Appendix -

Test Data and Result for report

GZCR221100149602

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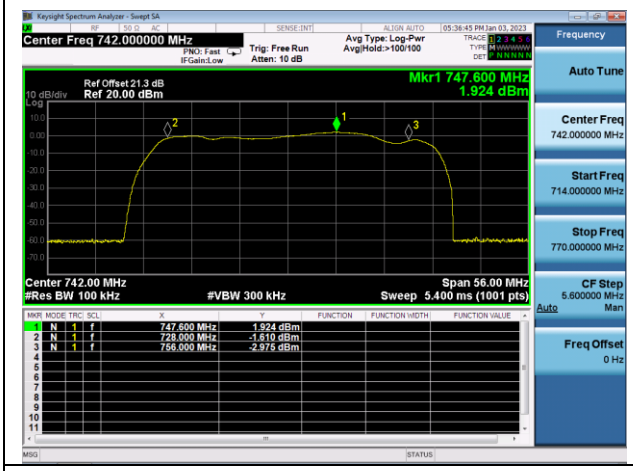
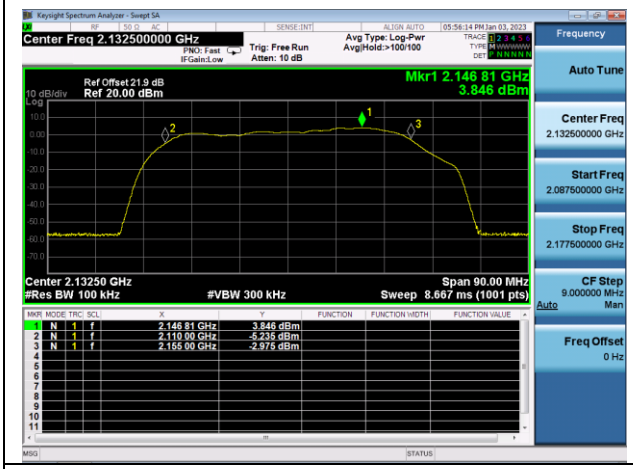
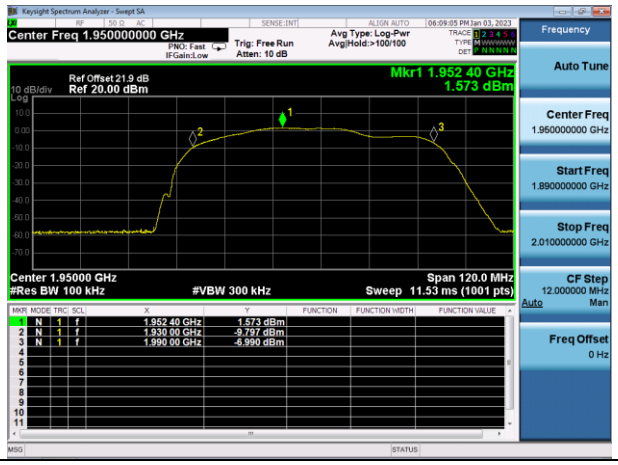
1 Authorized frequency band verification

Authorized frequency band verification	
DL	
700MHz Band	Cellular Band
	
f0 =747.6MHz	f0 =872.2MHz
AWS-1 Band	Broadband PCS
	
f0 =2146.81MHz	f0 =1952.4MHz

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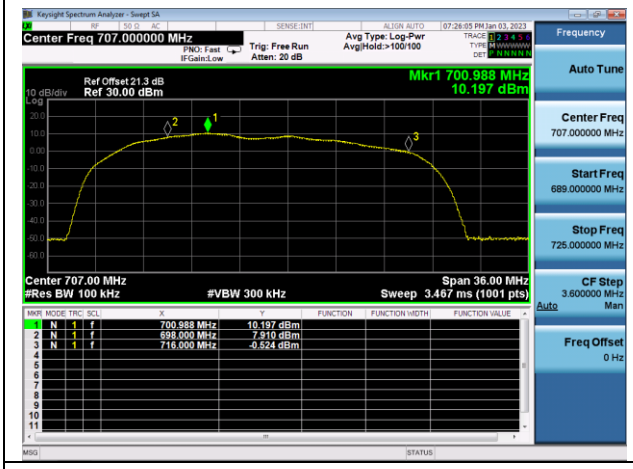
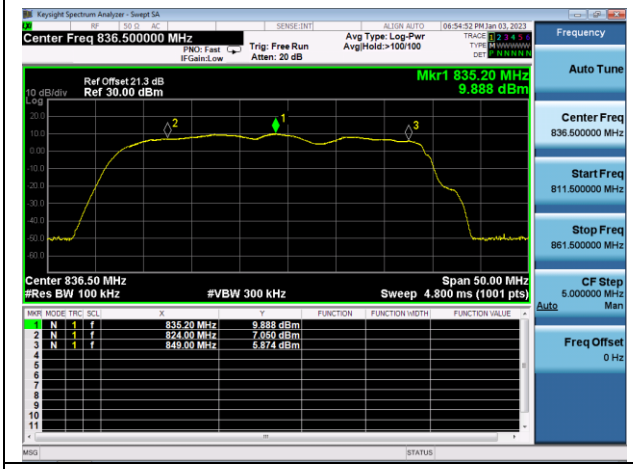
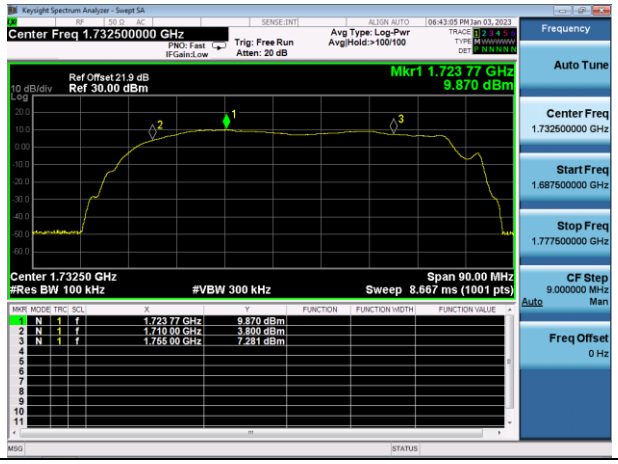
Authorized frequency band verification

UL

Lower 700MHz Band	Upper 700MHz Band
	
f0 =700.988MHz	f0 =780.48MHz
Cellular Band	**AWS-1 Band**
	
f0 =835.20MHz	f0 =1723.77MHz

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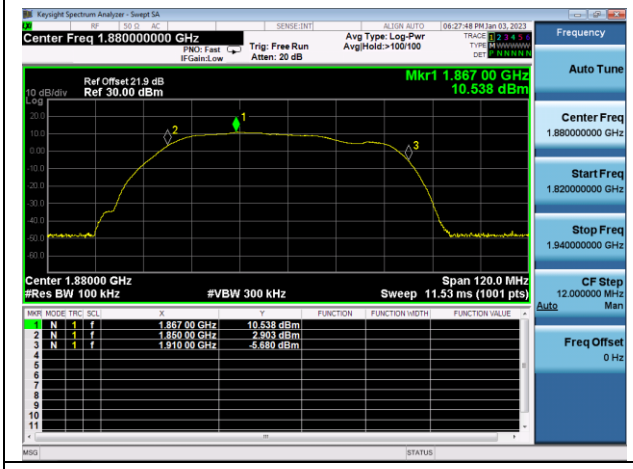
Authorized frequency band verification	
UL	
Broad PCS Band	/
	/
f0 =1867MHz	/
Remark: The frequency point f0 with the highest power level fall in the CMRS band under test with reset the spectrum analyser span to 2 × the width of the CMRS band under test and adjust the tuned frequency of the signal generator to sweep 2 × the width of the CMRS band using the sweep function. EUT is compiled the KDB 935210 D03 Signal Booster Measurements v04r04 Authorized frequency band verification test requirement.	

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2 Maximum power

Maximum Output Power								
Path	Band	Signal Type	Input Signal Level (dBm)		Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
DL	700MHz	AWGN	Pre-AGC	-58.5	4.1	13.1	≤17	PASS
		GSM	Pre-AGC	-56.0	6.7	15.7		PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.8	14.8		PASS
		GSM	Pre-AGC	-56.5	7.6	16.6		PASS
	AWS-1	AWGN	Pre-AGC	-66.0	4.9	13.9		PASS
		GSM	Pre-AGC	-63.5	7.1	16.1		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	5.5	14.5		PASS
		GSM	Pre-AGC	-63.5	7.3	16.3		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-44.5	18.1	27.1	Lower:17 Upper:30	PASS
		GSM	Pre-AGC	-42.5	20.4	29.4		PASS
	Upper 700MHz	AWGN	Pre-AGC	-46.5	17.3	26.3		PASS
		GSM	Pre-AGC	-44.0	19.6	28.6		PASS
	Cellular	AWGN	Pre-AGC	-46.5	17.2	26.2		PASS
		GSM	Pre-AGC	-43.5	20.1	29.1		PASS
	AWS-1	AWGN	Pre-AGC	-53.5	17.3	26.3		PASS
		GSM	Pre-AGC	-51.0	19.8	28.8		PASS
	Broadband PCS	AWGN	Pre-AGC	-53.5	17.3	26.3		PASS
		GSM	Pre-AGC	-50.5	20.4	29.4		PASS

Remark:
1. The test frequency f_0 was determined in Authorized frequency band verification test in this report.
2. ERIP = Conducted Output Power + Antenna Gain – Cable loss, according to the declaration from the manufacturer, the maximum antenna gain is 10dBi and the minimum cable loss is 1dB.

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Maximum transmitter test input levels					
Path	Band	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict
DL	700MHz	AWGN	-29.5	3.8	PASS
		GSM	-28.5	6.1	PASS
	Cellular	AWGN	-28.0	5.1	PASS
		GSM	-27.5	7.0	PASS
	AWS-1	AWGN	-38.0	4.3	PASS
		GSM	-34.5	6.6	PASS
	Broadband PCS	AWGN	-36.5	5.4	PASS
		GSM	-35.0	7.5	PASS
UL	Lower 700MHz	AWGN	-15.5	17.5	PASS
		GSM	-14.0	19.0	PASS
	Upper 700MHz	AWGN	-18.0	17.7	PASS
		GSM	-16.0	20.3	PASS
	Cellular	AWGN	-19.0	16.6	PASS
		GSM	-16.5	19.7	PASS
	AWS-1	AWGN	-27.0	15.3	PASS
		GSM	-22.5	18.9	PASS
	Broadband PCS	AWGN	-26.5	16.6	PASS
		GSM	-23.0	19.7	PASS

Remark:
1. For downlink, the EUT went into shutdown mode at the maximum input level (-20dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.
2. For uplink, the EUT went into shutdown mode at the maximum input level (0dBm) indicated in 5.5 of KDB 935210 D03. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.

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3 Maximum booster gain computation

Maximum Gain								
Path	Band	Signal Type	Input Signal Level (dBm)		Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
DL	700MHz	AWGN	Pre-AGC	-58.5	4.1	62.6	≤63.49	PASS
		GSM	Pre-AGC	-56.0	6.7	62.7		PASS
	Cellular	AWGN	Pre-AGC	-58.0	5.8	63.8	≤64.95	PASS
		GSM	Pre-AGC	-56.5	7.6	64.1		PASS
	AWS-1	AWGN	Pre-AGC	-66.0	4.9	70.9	≤71.27	PASS
		GSM	Pre-AGC	-63.5	7.1	70.6		PASS
	Broadband PCS	AWGN	Pre-AGC	-65.0	5.5	70.5	≤71.98	PASS
		GSM	Pre-AGC	-63.5	7.3	70.8		PASS
UL	Lower 700MHz	AWGN	Pre-AGC	-44.5	18.1	62.6	≤63.49	PASS
		GSM	Pre-AGC	-42.5	20.4	62.9		PASS
	Upper 700MHz	AWGN	Pre-AGC	-46.5	17.3	63.8	≤64.36	PASS
		GSM	Pre-AGC	-44.0	19.6	63.6		PASS
	Cellular	AWGN	Pre-AGC	-46.5	17.2	63.7	≤64.95	PASS
		GSM	Pre-AGC	-43.5	20.1	63.6		PASS
	AWS-1	AWGN	Pre-AGC	-53.5	17.3	70.8	≤71.27	PASS
		GSM	Pre-AGC	-51.0	19.8	70.8		PASS
	Broadband PCS	AWGN	Pre-AGC	-53.5	17.3	70.8	≤71.98	PASS
		GSM	Pre-AGC	-50.5	20.4	70.9		PASS

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Equivalent Uplink and Downlink Gain						
Band	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	UL vs DL Gain (dB)	Limit (dB)	Verdict
Lower 700MHz	AWGN	62.6	62.6	0.0	≤9	PASS
	GSM	62.9	62.7	0.2		PASS
Upper 700MHz	AWGN	63.8	62.6	1.2		PASS
	GSM	63.6	62.7	0.9		PASS
Cellular	AWGN	63.7	63.8	0.1		PASS
	GSM	63.6	64.1	0.5		PASS
AWS-1	AWGN	70.8	70.9	0.1		PASS
	GSM	70.8	70.6	0.2		PASS
Broadband PCS	AWGN	70.8	70.5	0.3		PASS
	GSM	70.9	70.8	0.1		PASS

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4 Intermodulation product

Intermodulation product						
Path	Band	Input Signal		Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	700MHz	two CW signals	Pre-AGC	-31.58	≤-19	PASS
			10dB above AGC	-31.25		PASS
	Cellular	two CW signals	Pre-AGC	-35.20	≤-19	PASS
			10dB above AGC	-35.22		PASS
	AWS-1	two CW signals	Pre-AGC	-31.12	≤-19	PASS
			10dB above AGC	-30.62		PASS
	Broadband PCS	two CW signals	Pre-AGC	-36.36	≤-19	PASS
			10dB above AGC	-36.47		PASS
UL	Lower 700MHz	two CW signals	Pre-AGC	-22.17	≤-19	PASS
			10dB above AGC	-21.68		PASS
	Upper 700MHz	two CW signals	Pre-AGC	-26.28	≤-19	PASS
			10dB above AGC	-24.95		PASS
	Cellular	two CW signals	Pre-AGC	-31.34	≤-19	PASS
			10dB above AGC	-31.40		PASS
	AWS-1	two CW signals	Pre-AGC	-24.53	≤-19	PASS
			10dB above AGC	-24.29		PASS
	Broadband PCS	two CW signals	Pre-AGC	-31.66	≤-19	PASS
			10dB above AGC	-31.61		PASS

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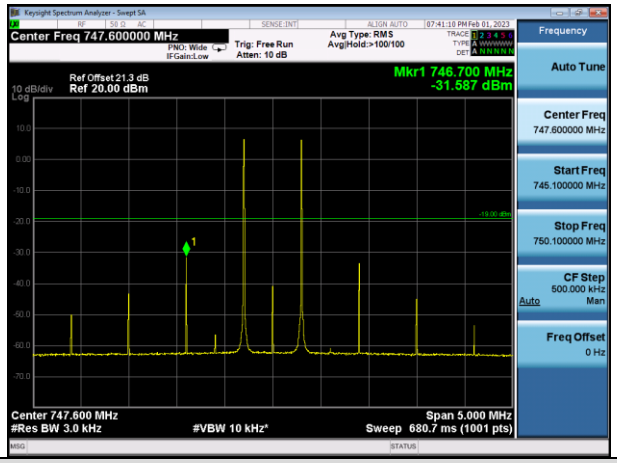
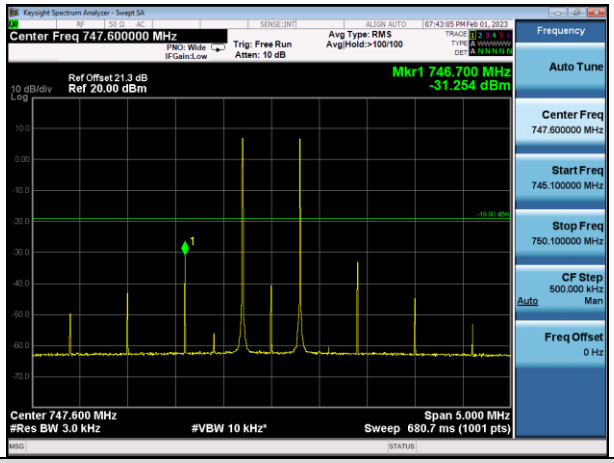
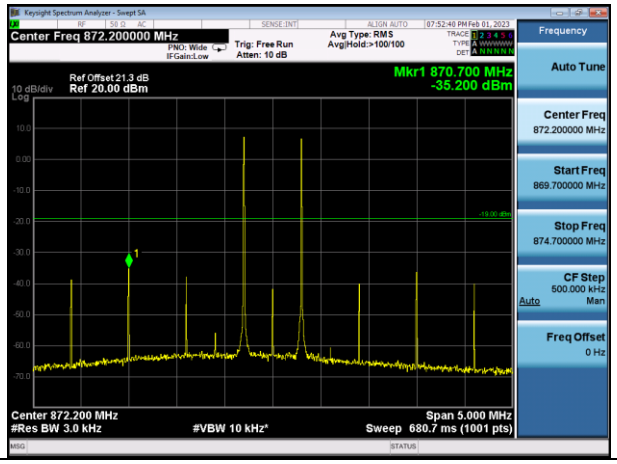
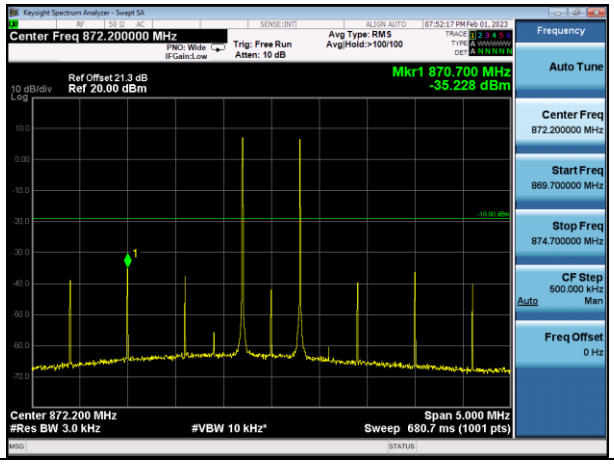
Intermodulation product	
DL	
700MHz Band_Pre-AGC	700MHz Band_10dB above AGC
	
Cellular Band_Pre-AGC	Cellular Band_10dB above AGC
	

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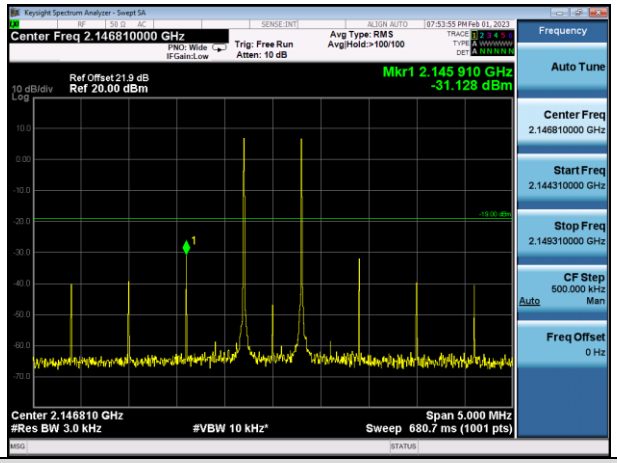
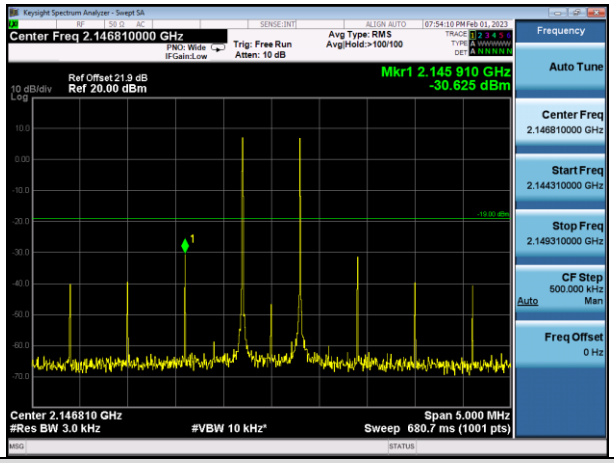
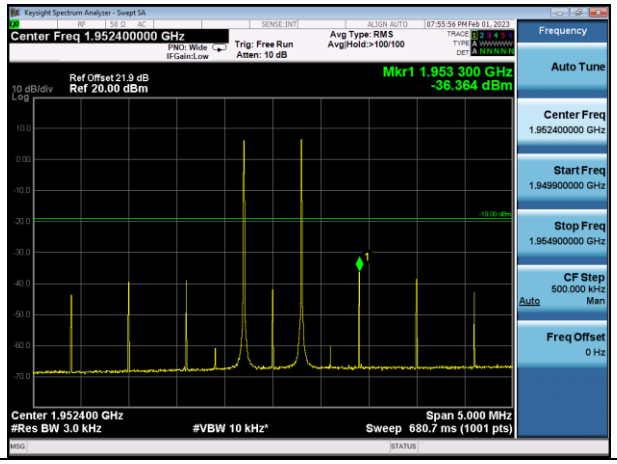
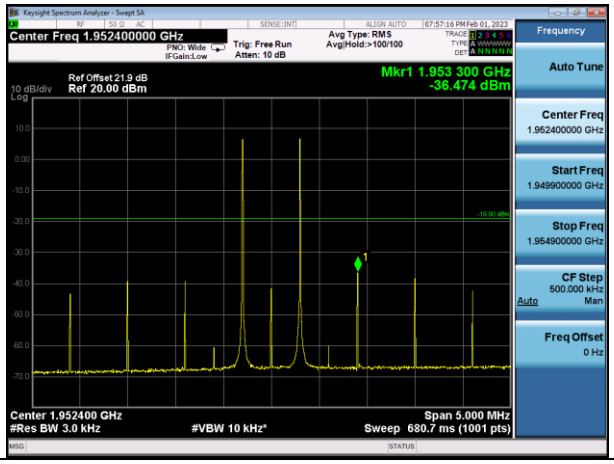
Intermodulation product	
DL	
AWS-1_Pre-AGC	AWS-1_10dB above AGC
	
Broadband PCS_Pre-AGC	Broadband PCS_10dB above AGC
	

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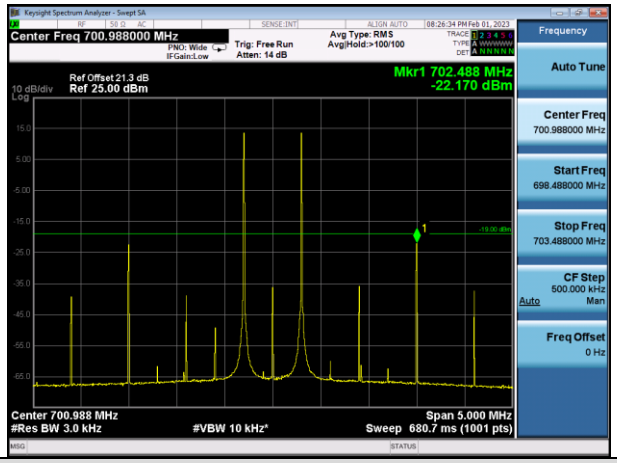
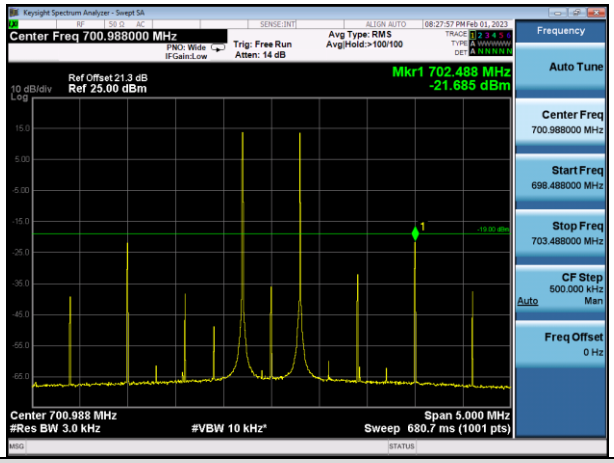
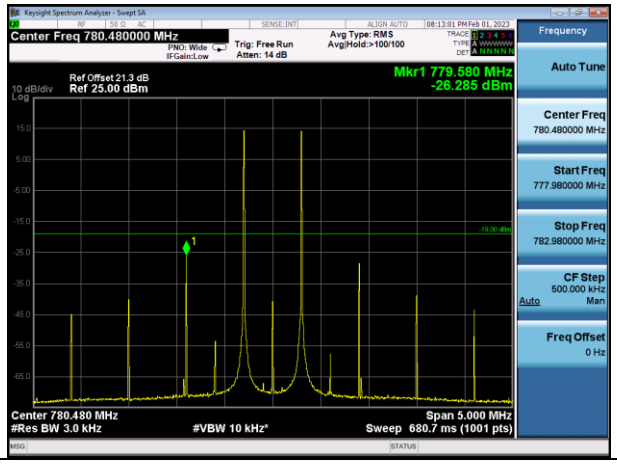
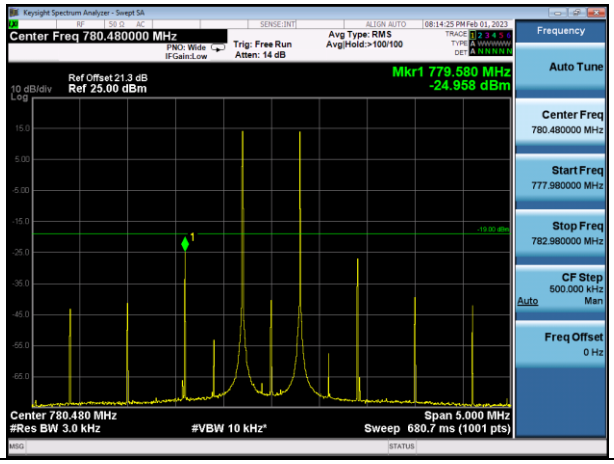
Intermodulation product	
UL	
Lower 700MHz Band_Pre-AGC	Lower 700MHz Band_10dB above AGC
	
Upper 700MHz Band_Pre-AGC	Upper 700MHz Band_10dB above AGC
	

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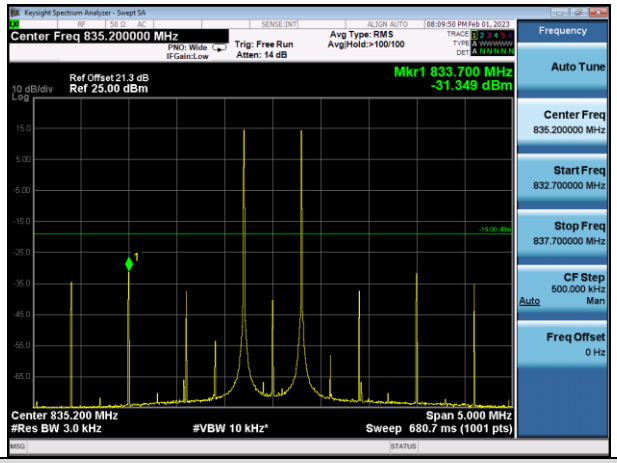
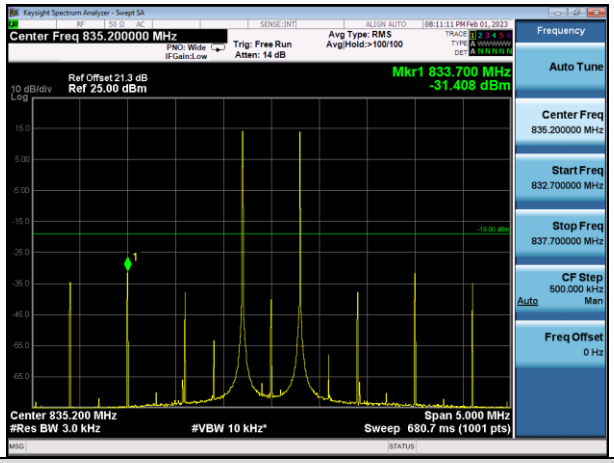
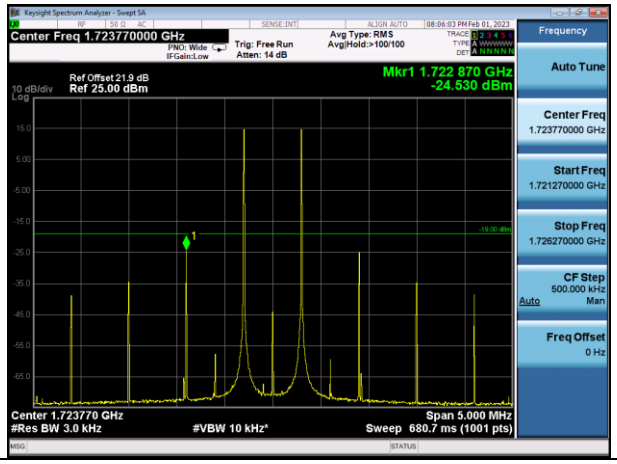
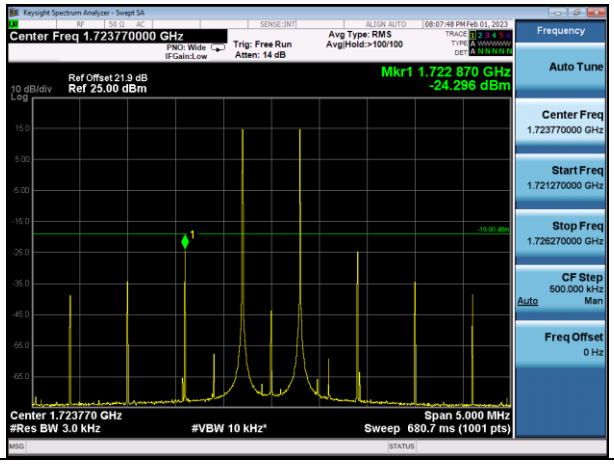
Intermodulation product	
UL	
Cellular Band_Pre-AGC	Cellular Band_10dB above AGC
	
AWS-1 Band_Pre-AGC	AWS-1 Band_10dB above AGC
	

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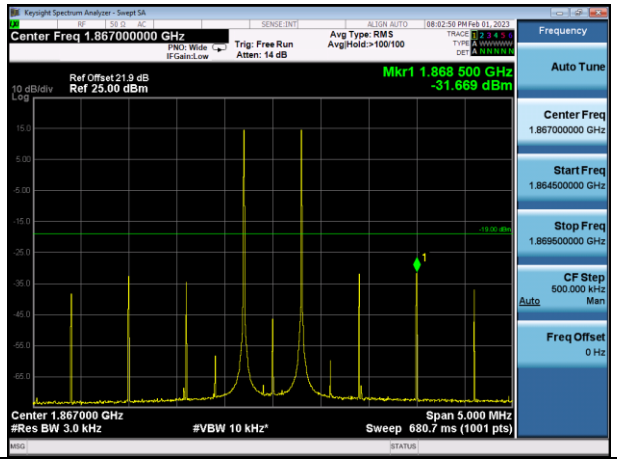
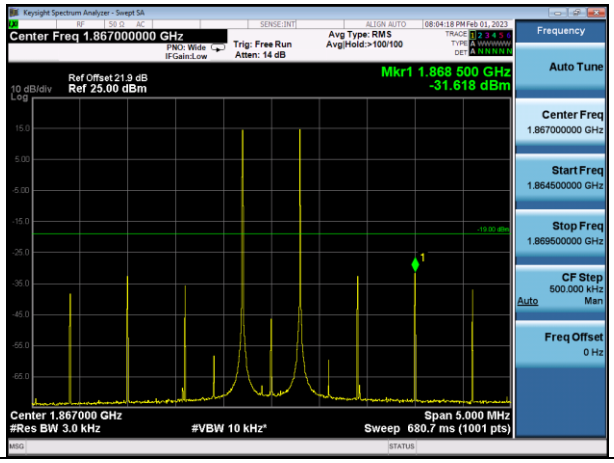
Intermodulation product	
UL	
Broadband PCS Band_Pre-AGC	Broadband PCS Band_10dB above AGC
	

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5 Out-of-band emissions

Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	700MHz	GSM	Lower Edge	Pre-AGC	-29.98	≤-19	PASS
				10dB above AGC	-30.62		PASS
			Upper Edge	Pre-AGC	-30.53		PASS
				10dB above AGC	-30.68		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-38.74	≤-19	PASS
				10dB above AGC	-38.69		PASS
			Upper Edge	Pre-AGC	-42.44		PASS
				10dB above AGC	-42.68		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-38.48	≤-19	PASS
				10dB above AGC	-38.02		PASS
			Upper Edge	Pre-AGC	-43.04		PASS
				10dB above AGC	-42.05		PASS
	Cellular	GSM	Lower Edge	Pre-AGC	-29.06	≤-19	PASS
				10dB above AGC	-29.25		PASS
			Upper Edge	Pre-AGC	-30.05		PASS
				10dB above AGC	-29.61		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-35.48	≤-19	PASS
				10dB above AGC	-34.25		PASS
			Upper Edge	Pre-AGC	-40.20		PASS
				10dB above AGC	-39.80		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-37.30	≤-19	PASS
				10dB above AGC	-36.35		PASS
			Upper Edge	Pre-AGC	-39.98		PASS
				10dB above AGC	-39.54		PASS

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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
DL	AWS-1	GSM	Lower Edge	Pre-AGC	-32.34	≤-29 [1]	PASS
				10dB above AGC	-32.75		PASS
			Upper Edge	Pre-AGC	-33.44		PASS
				10dB above AGC	-33.26		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-24.61	≤-19	PASS
				10dB above AGC	-25.42		PASS
			Upper Edge	Pre-AGC	-24.41		PASS
				10dB above AGC	-24.81		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-21.60	≤-19	PASS
				10dB above AGC	-22.14		PASS
			Upper Edge	Pre-AGC	-21.24		PASS
				10dB above AGC	-20.57		PASS
	Broadband PCS	GSM	Lower Edge	Pre-AGC	-32.75	≤-29 [1]	PASS
				10dB above AGC	-32.88		PASS
			Upper Edge	Pre-AGC	-33.34		PASS
				10dB above AGC	-33.32		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-26.93	≤-19	PASS
				10dB above AGC	-27.15		PASS
			Upper Edge	Pre-AGC	-24.67		PASS
				10dB above AGC	-24.13		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-24.83	≤-19	PASS
				10dB above AGC	-24.44		PASS
			Upper Edge	Pre-AGC	-22.83		PASS
				10dB above AGC	-23.54		PASS

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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Lower 700MHz	GSM	Lower Edge	Pre-AGC	-26.46	≤-19	PASS
				10dB above AGC	-26.71		PASS
			Upper Edge	Pre-AGC	-27.17		PASS
				10dB above AGC	-26.76		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-28.33	≤-19	PASS
				10dB above AGC	-27.96		PASS
			Upper Edge	Pre-AGC	-26.32		PASS
				10dB above AGC	-27.28		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-24.03	≤-19	PASS
				10dB above AGC	-24.39		PASS
			Upper Edge	Pre-AGC	-30.71		PASS
				10dB above AGC	-30.10		PASS
	Upper 700MHz	GSM	Lower Edge	Pre-AGC	-32.00	≤-19	PASS
				10dB above AGC	-31.84		PASS
			Upper Edge	Pre-AGC	-32.01		PASS
				10dB above AGC	-32.40		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-46.35	≤-19	PASS
				10dB above AGC	-47.20		PASS
			Upper Edge	Pre-AGC	-24.97		PASS
				10dB above AGC	-24.42		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-39.70	≤-19	PASS
				10dB above AGC	-39.95		PASS
			Upper Edge	Pre-AGC	-42.56		PASS
				10dB above AGC	-42.36		PASS

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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Cellular	GSM	Lower Edge	Pre-AGC	-30.03	≤-19	PASS
				10dB above AGC	-29.57		PASS
			Upper Edge	Pre-AGC	-30.65		PASS
				10dB above AGC	-29.87		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-29.82	≤-19	PASS
				10dB above AGC	-31.09		PASS
			Upper Edge	Pre-AGC	-27.59		PASS
				10dB above AGC	-28.18		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-41.23	≤-19	PASS
				10dB above AGC	-40.89		PASS
			Upper Edge	Pre-AGC	-40.11		PASS
				10dB above AGC	-39.96		PASS
	AWS-1	GSM	Lower Edge	Pre-AGC	-32.67	≤-29 [1]	PASS
				10dB above AGC	-32.32		PASS
			Upper Edge	Pre-AGC	-33.10		PASS
				10dB above AGC	-32.32		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-20.96	≤-19	PASS
				10dB above AGC	-20.04		PASS
			Upper Edge	Pre-AGC	-21.12		PASS
				10dB above AGC	-20.62		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-23.06	≤-19	PASS
				10dB above AGC	-22.69		PASS
			Upper Edge	Pre-AGC	-20.98		PASS
				10dB above AGC	-20.43		PASS

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Out-of-band emissions							
Path	Band	Input Signal			Worst Test Level (dBm)	Limit (dBm)	Verdict
UL	Broadband PCS	GSM	Lower Edge	Pre-AGC	-32.50	≤-29 [1]	PASS
				10dB above AGC	-32.28		PASS
			Upper Edge	Pre-AGC	-34.31		PASS
				10dB above AGC	-33.82		PASS
		1.25MHz AWGN	Lower Edge	Pre-AGC	-23.42	≤-19	PASS
				10dB above AGC	-22.72		PASS
			Upper Edge	Pre-AGC	-22.08		PASS
				10dB above AGC	-22.57		PASS
		4.1MHz AWGN	Lower Edge	Pre-AGC	-20.99	≤-19	PASS
				10dB above AGC	-21.58		PASS
			Upper Edge	Pre-AGC	-22.20		PASS
				10dB above AGC	-21.58		PASS

Remark:
[1] To improve measurement accuracy, sensitivity and efficiency, the measured RBW (= 100kHz) is different From the reference RBW (= 1MHz, stated in KDB 935210), the measured value shall be increased by 10lg(1000/100)= 10dB. The limit was calculated to show -29dBm to determine the test result conveniently.

[2] *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 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)]} – 6dB = -19dBm
(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)]} – 6dB = -19dBm
(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)]} – 6dB = -52dBm

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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)]} – 6dB = -19dBm
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 log10 (P) dB.
So, the limit = {P – [43 + 10 log (P)]} – 6dB = -19dBm
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)]} – 6dB = -19dBm
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)]} – 6dB = -19dBm

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Out-of-band emissions	
DL_700MHz Band	
GSM signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC

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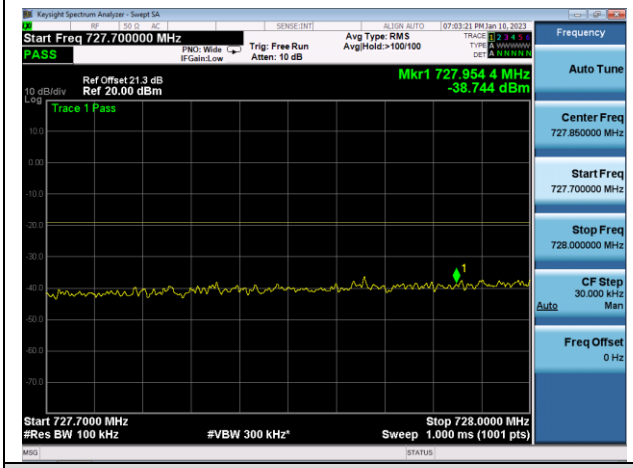
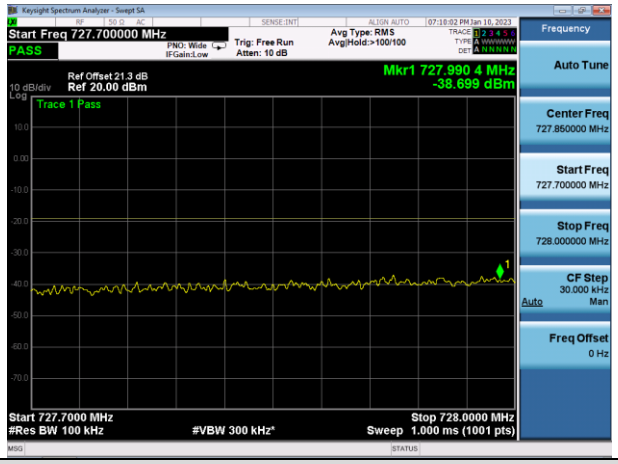
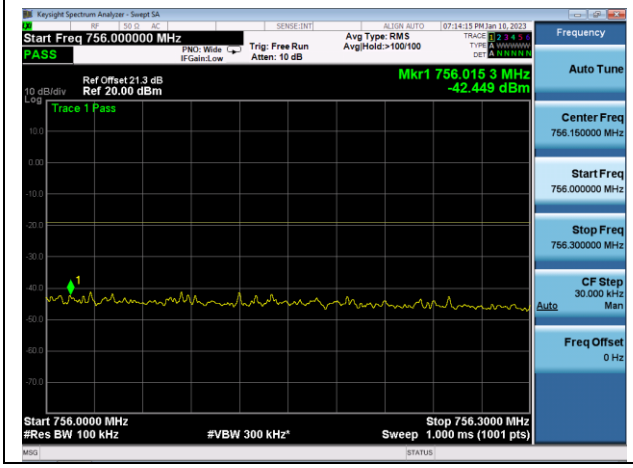
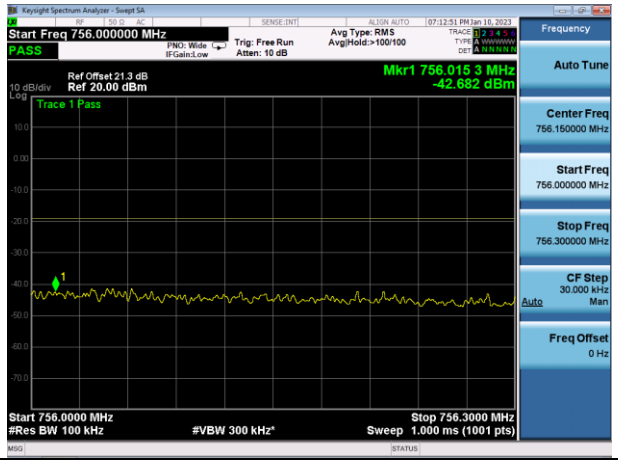
Out-of-band emissions	
DL_700MHz Band	
1.25MHz AWGN signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
	
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC
	

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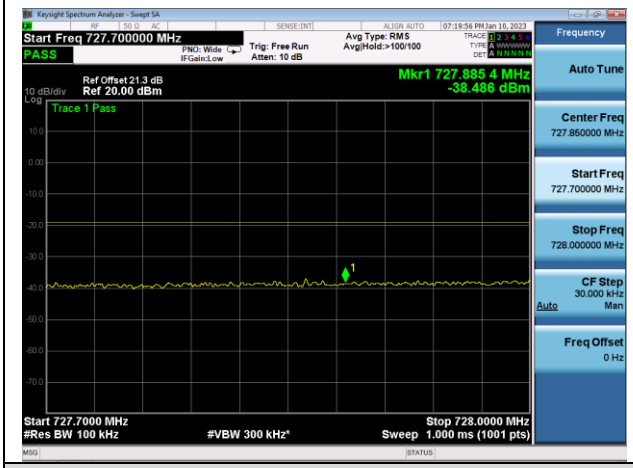
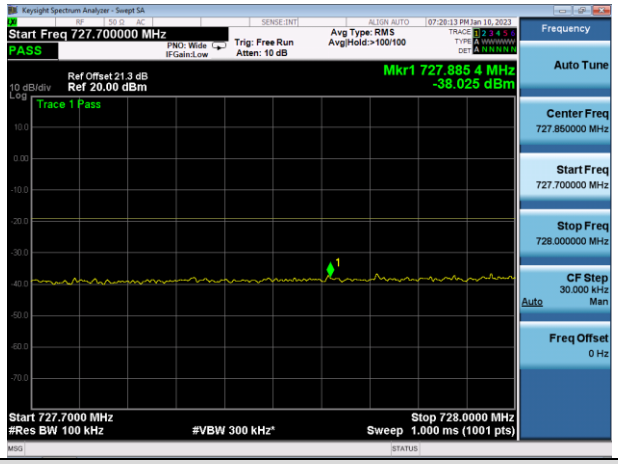
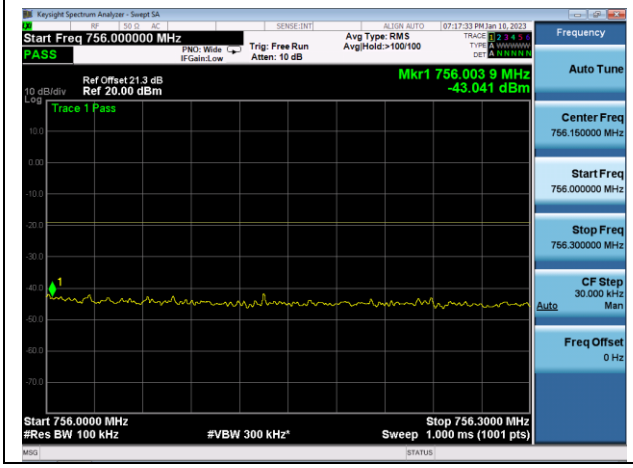
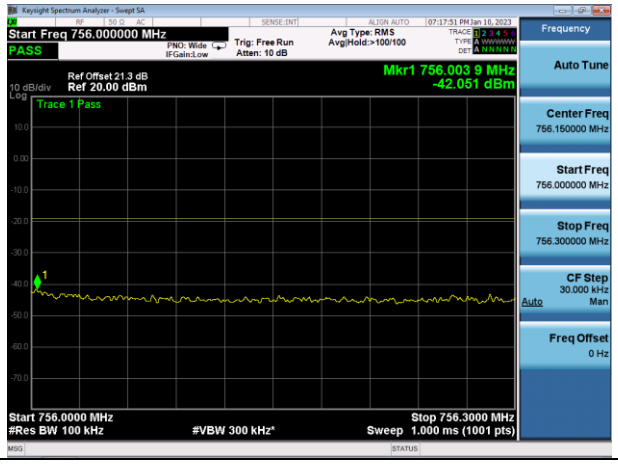
DL_700MHz Band	
4.1MHz AWGN signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
	
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC
	

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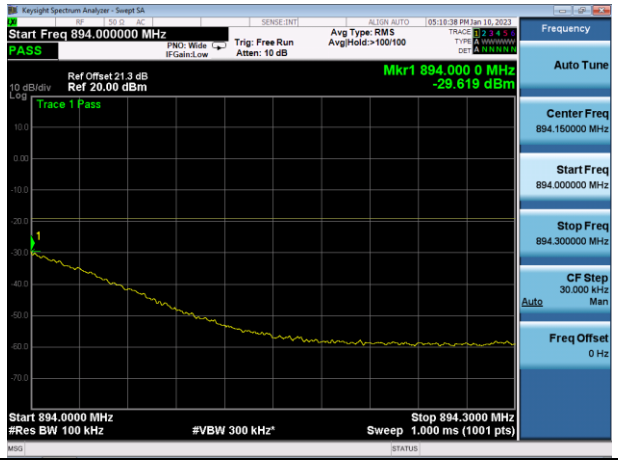
DL_Cellular Band	
GSM signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC
	

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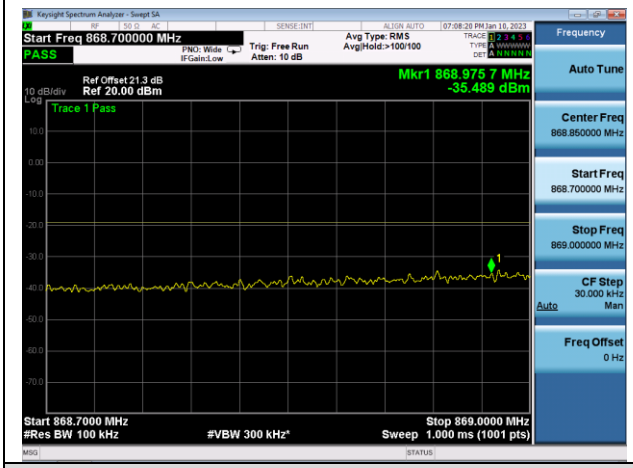
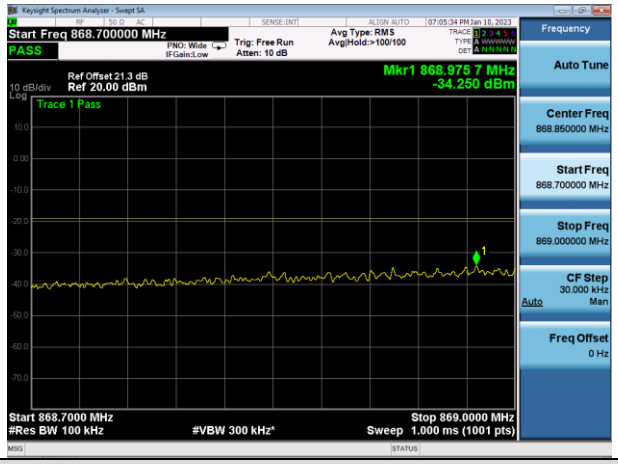
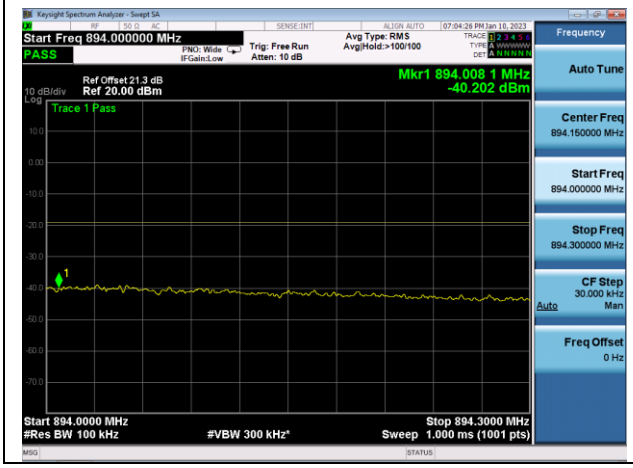
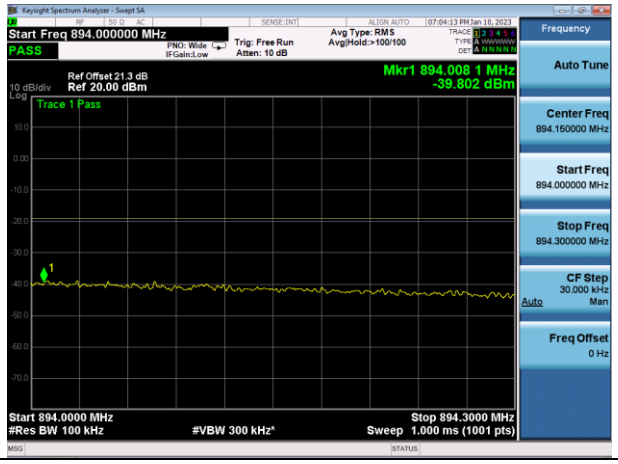
1.25MHz AWGN signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
	
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC
	

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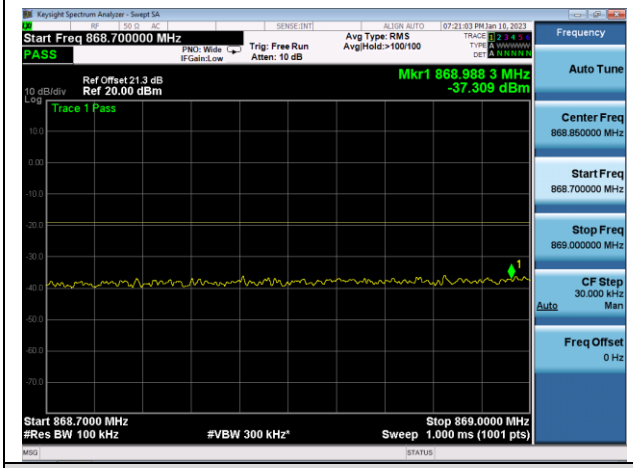
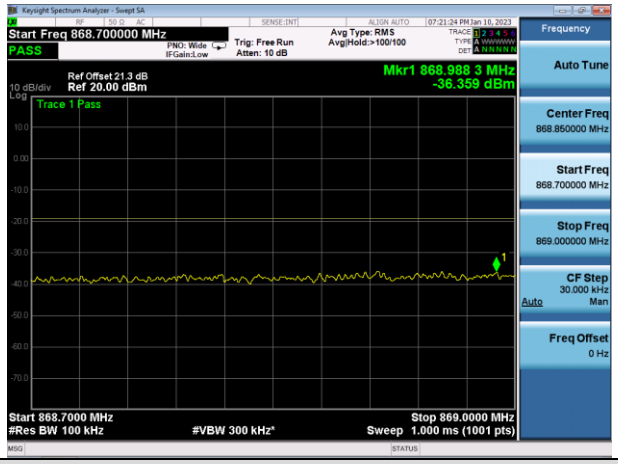
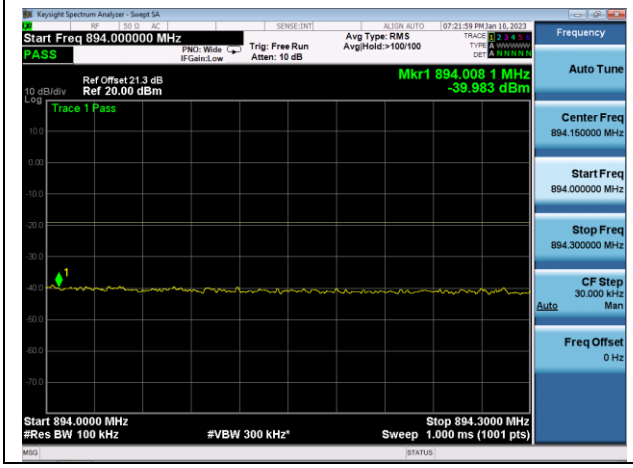
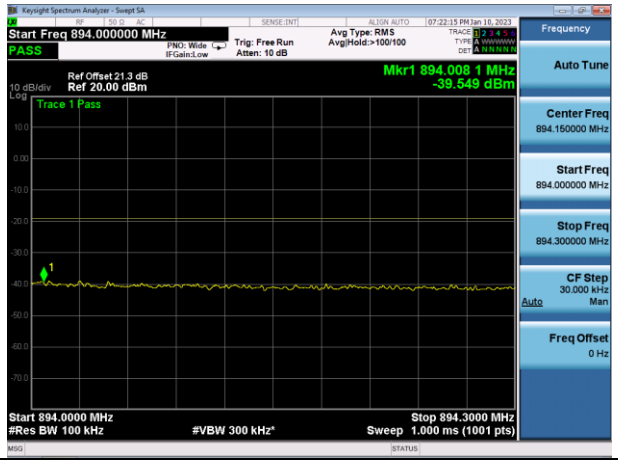
4.1MHz AWGN signal input	
Lower band edge_Pre-AGC	Lower band edge_10dB above AGC
	
Upper band edge_Pre-AGC	Upper band edge_10dB above AGC
	

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