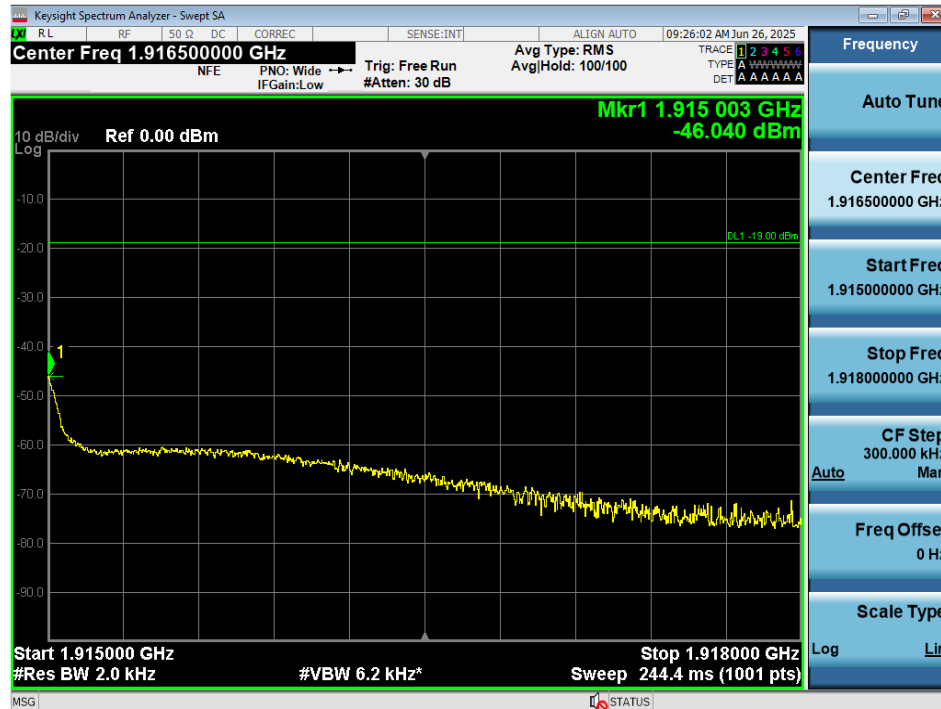
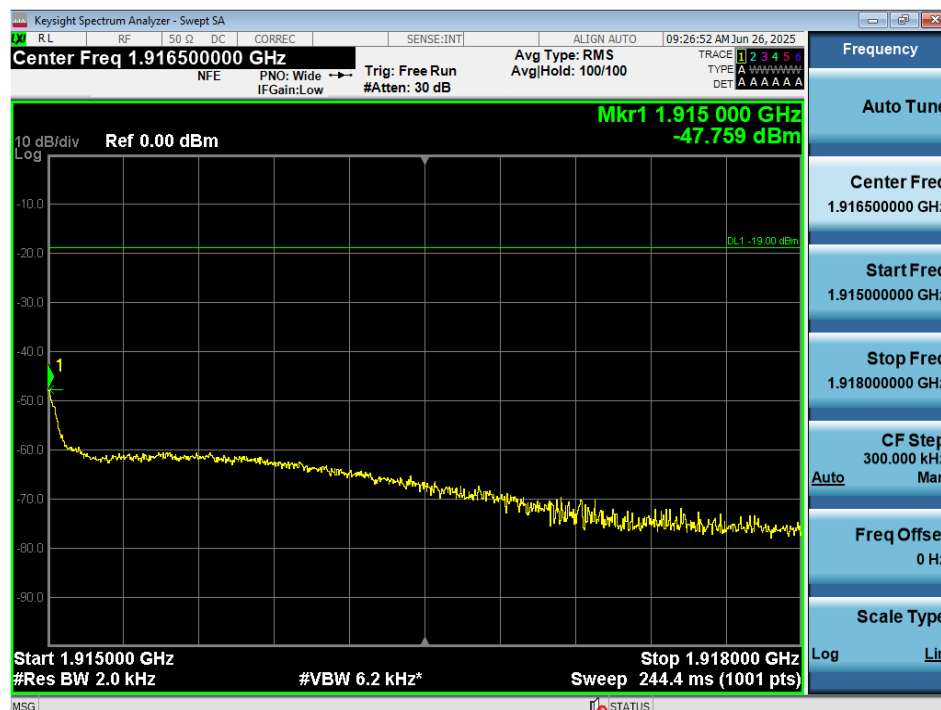


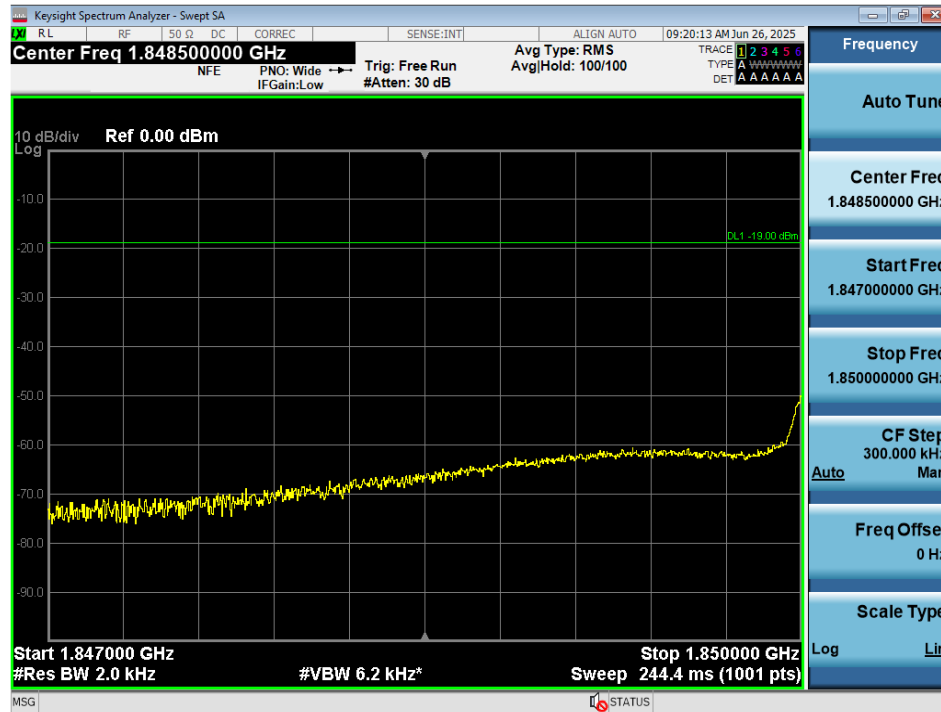
Out-of-Band Emissions / Broadband PCS / Uplink / GSM / Upper Edge / AGC threshold / ANT 3



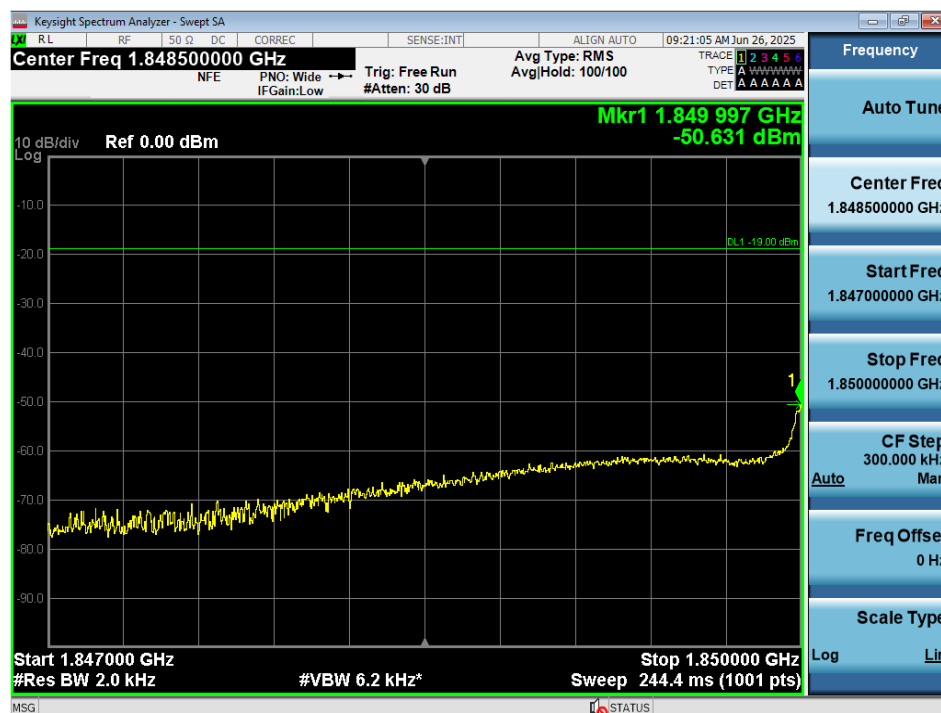
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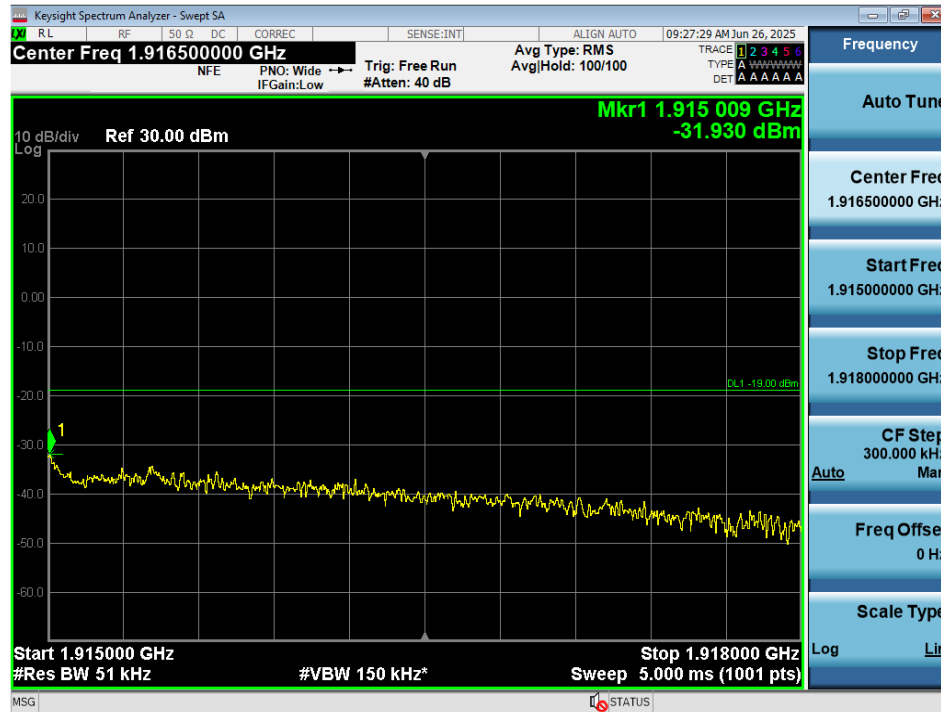
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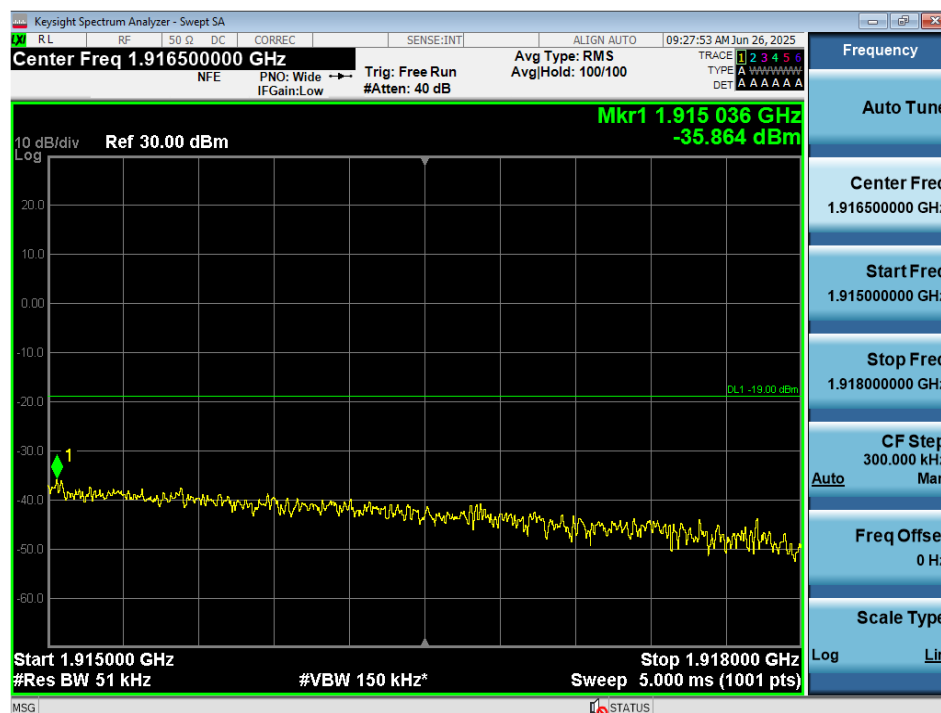
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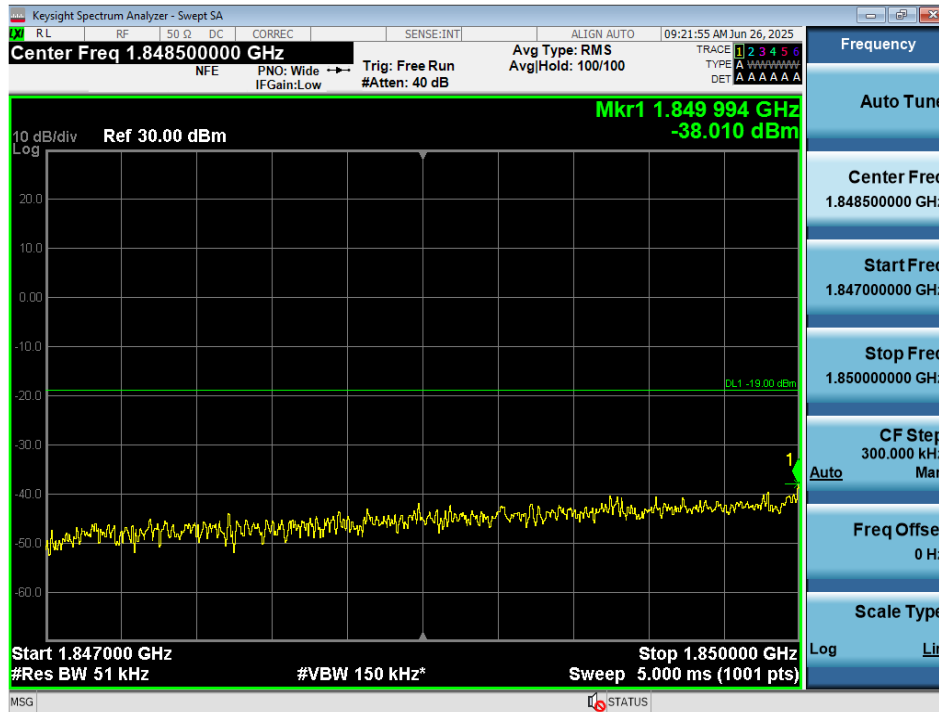
Out-of-Band Emissions / Broadband PCS / Uplink / LTE 5 MHz / Upper Edge / AGC threshold / ANT 3



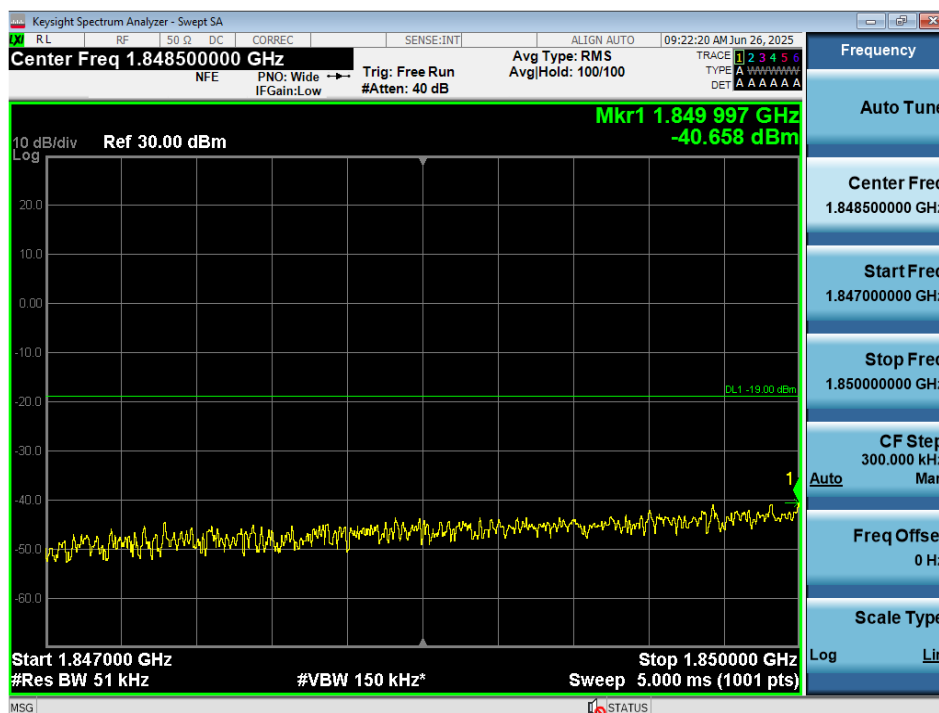
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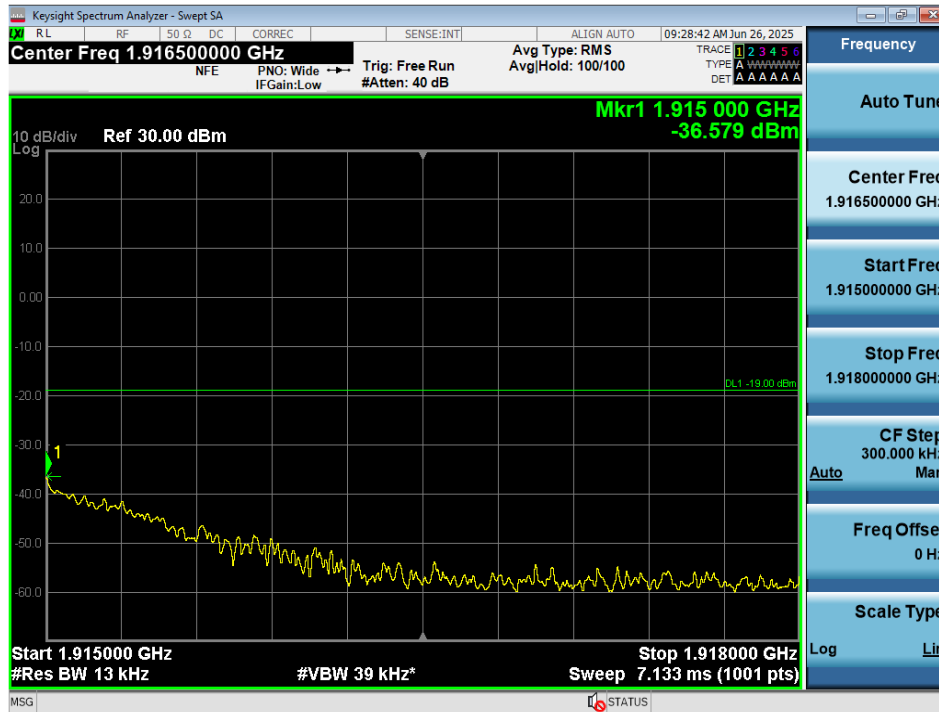
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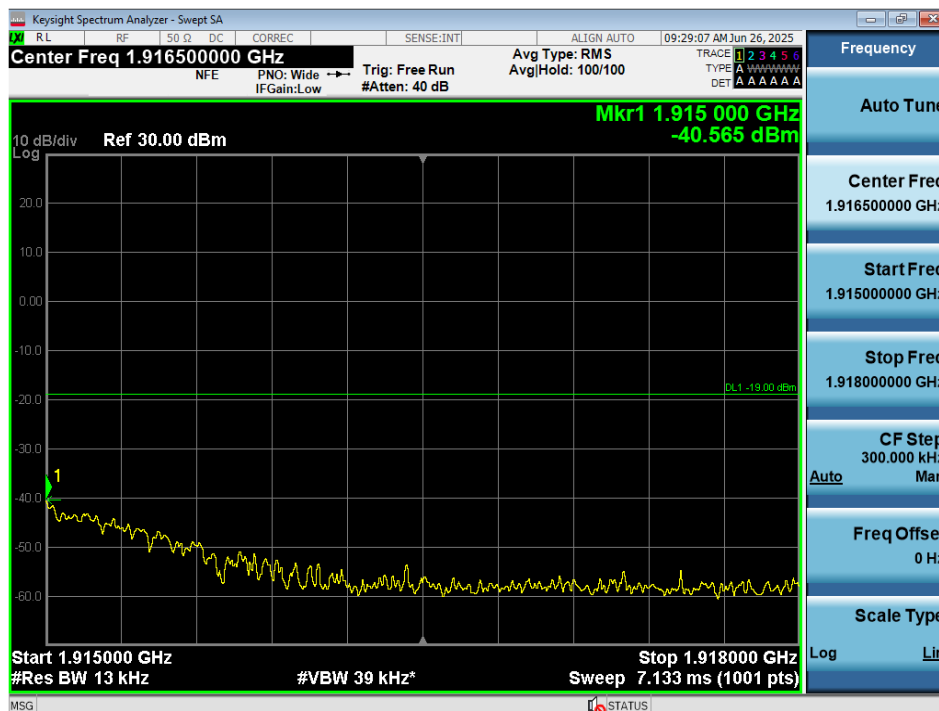
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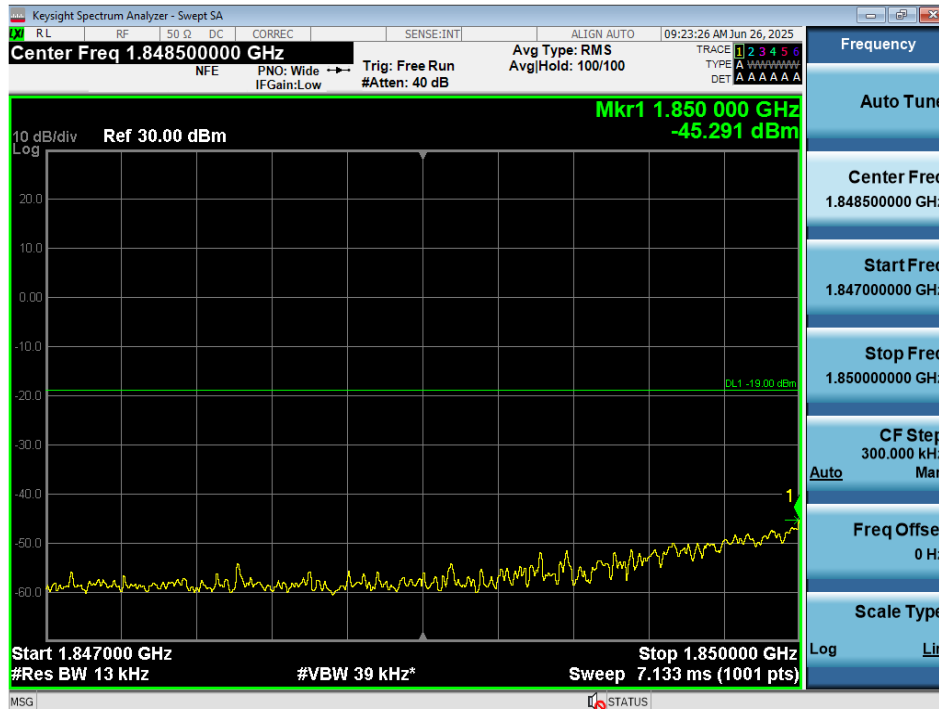
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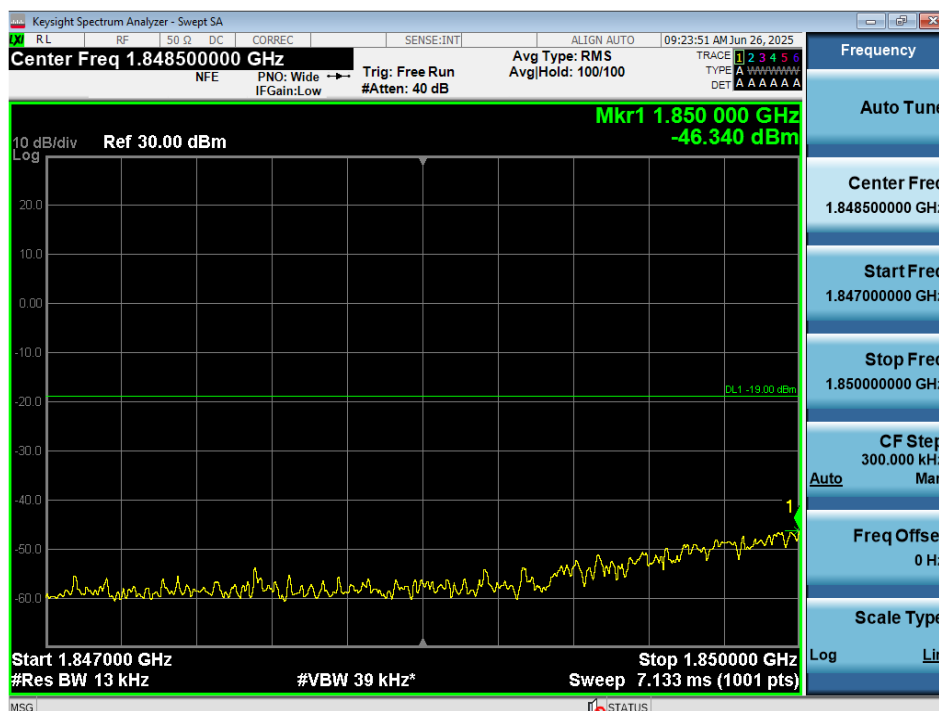
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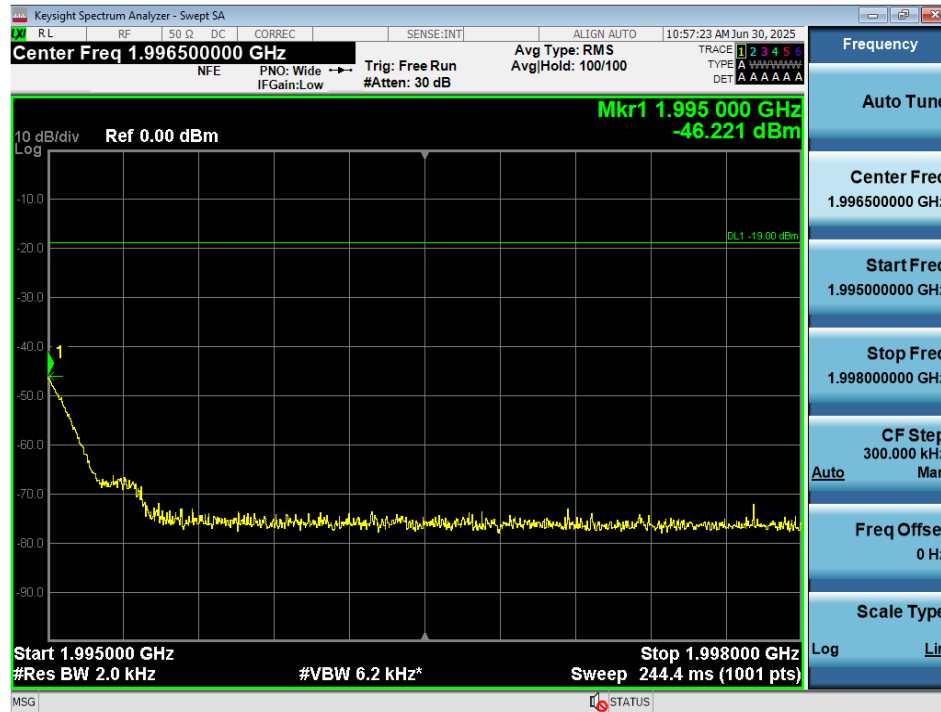
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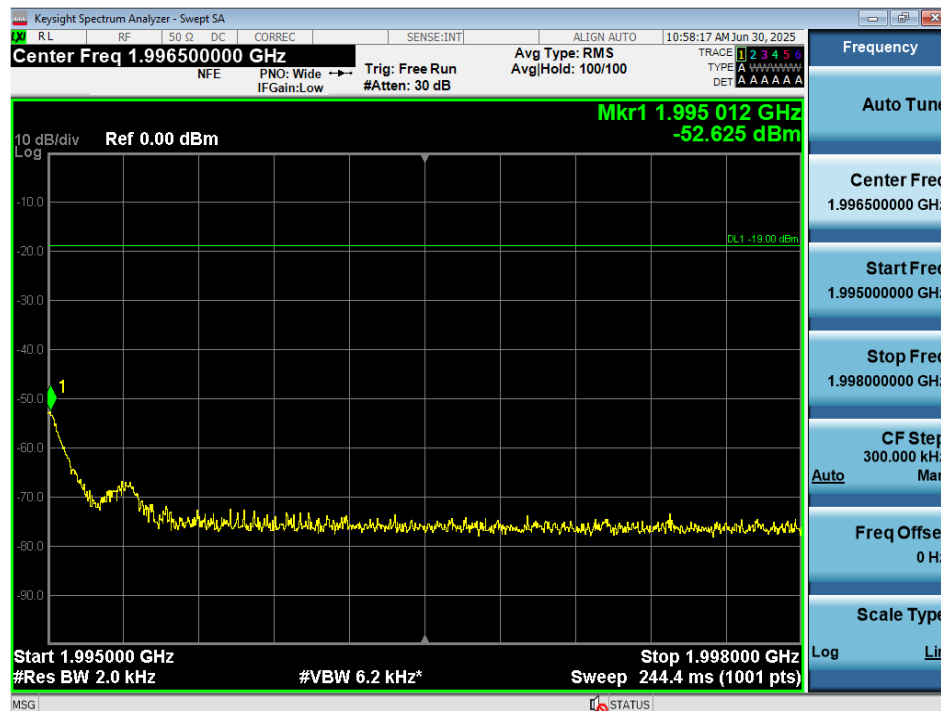
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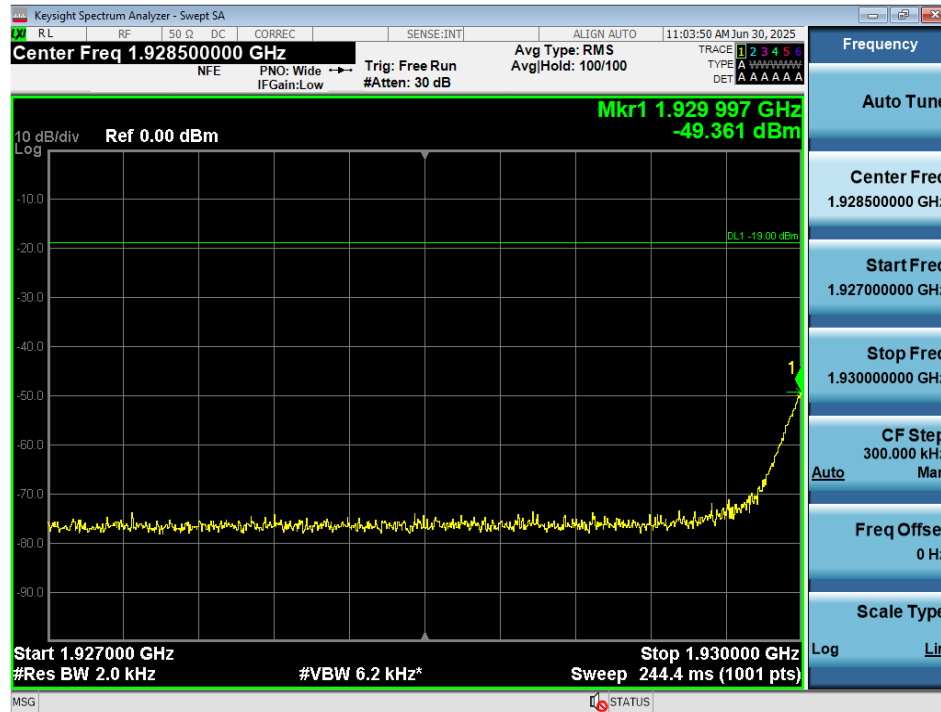
Out-of-Band Emissions / Broadband PCS / Downlink / GSM / Upper Edge / AGC threshold / ANT 3



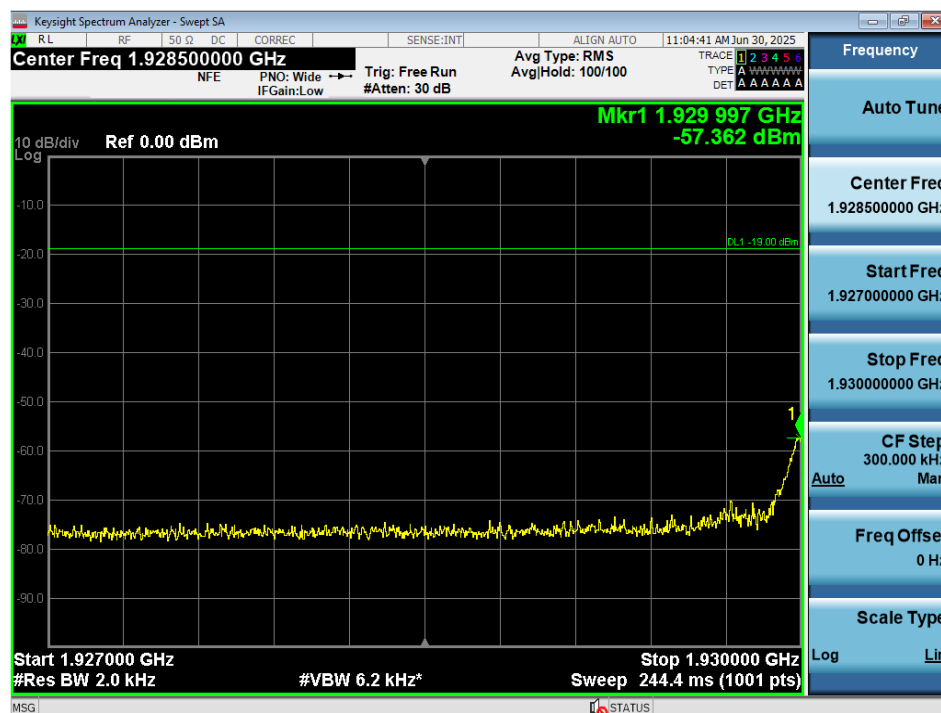
Out-of-Band Emissions / Broadband PCS/ Downlink / GSM / Upper Edge / AGC threshold +10 dB / ANT 3



Out-of-Band Emissions / Broadband PCS / Downlink / GSM / Lower Edge / AGC threshold / ANT 3



Out-of-Band Emissions / Broadband PCS / Downlink / GSM / Lower Edge / AGC threshold +10 dB / ANT 3



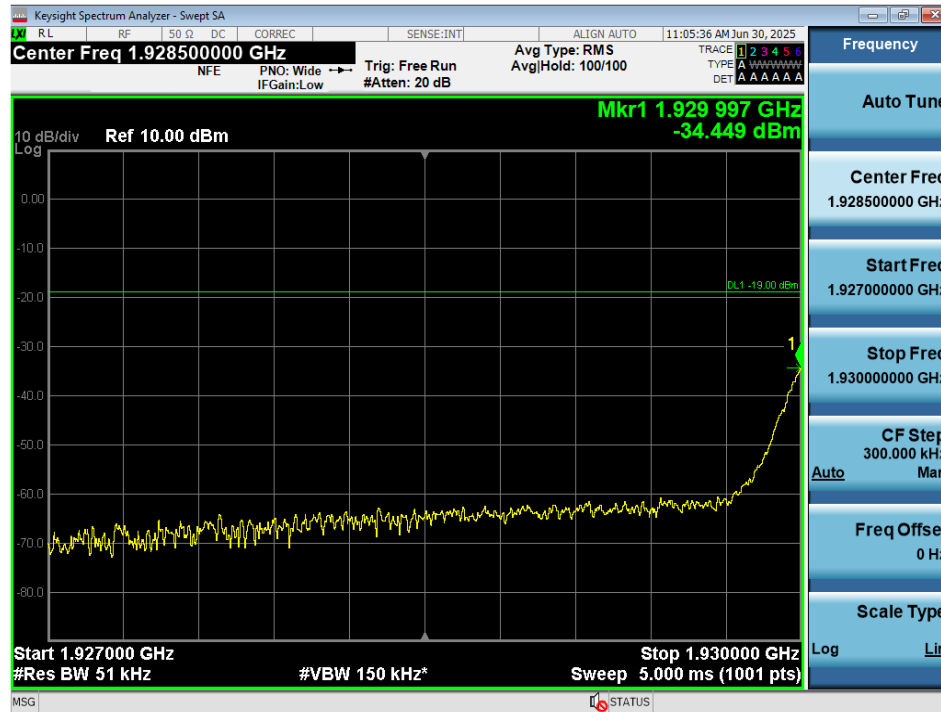
Out-of-Band Emissions / Broadband PCS / Downlink / LTE 5 MHz / Upper Edge / AGC threshold / ANT 3



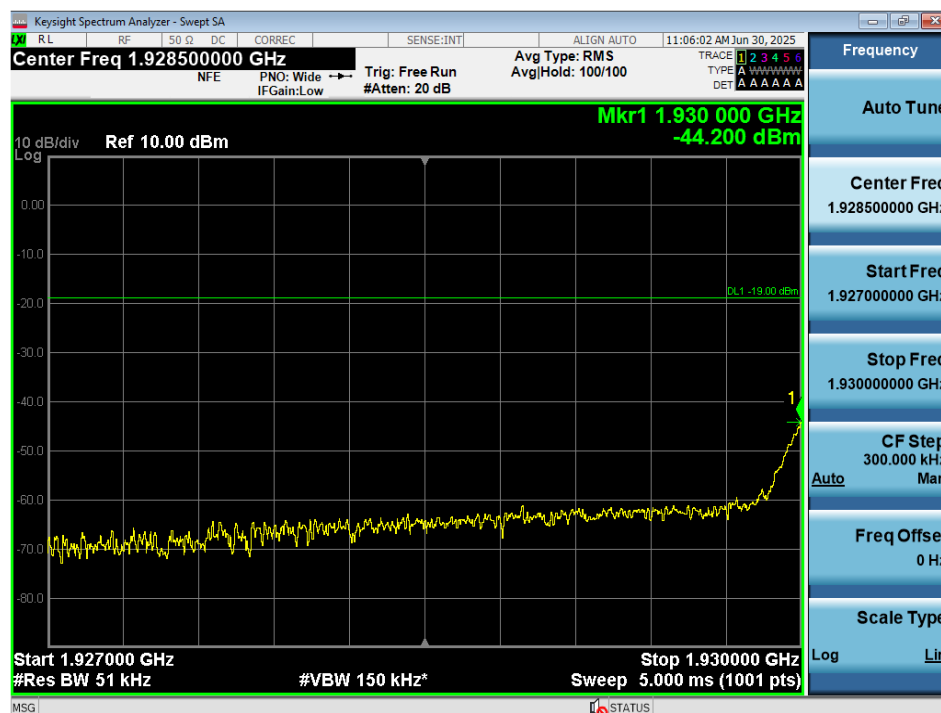
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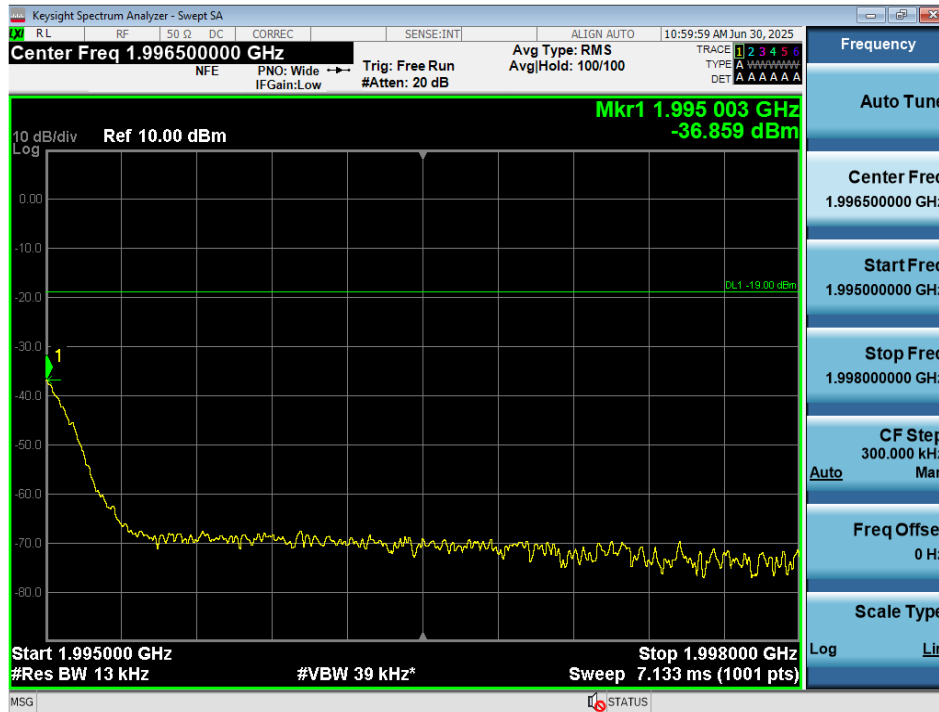
Out-of-Band Emissions / Broadband PCS / Downlink / LTE 5 MHz / Lower Edge / AGC threshold / ANT 3



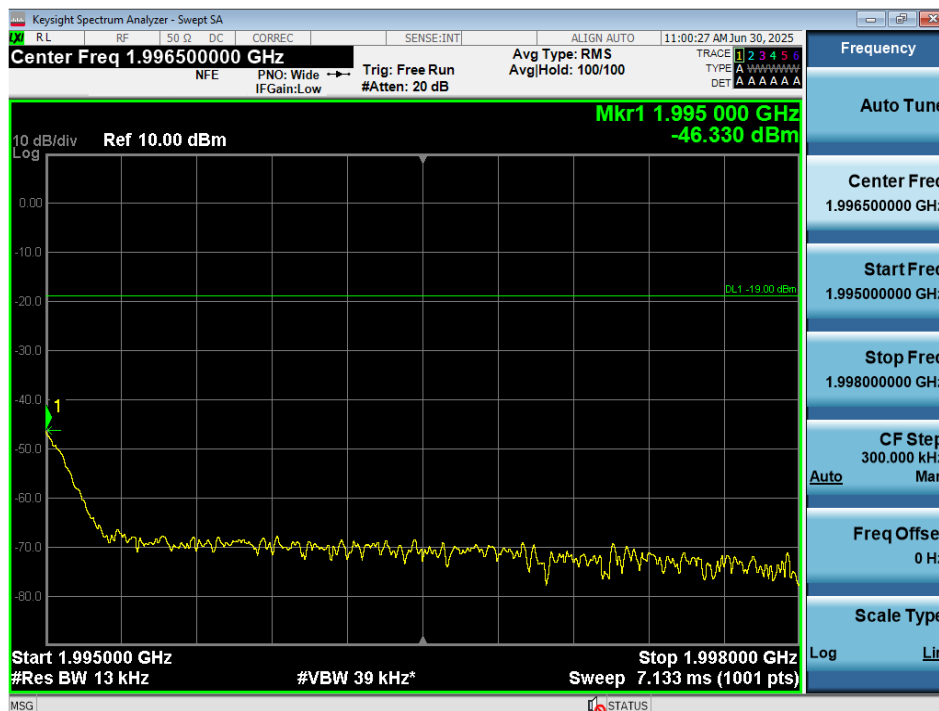
Out-of-Band Emissions / Broadband PCS / Downlink / LTE 5 MHz / Lower Edge / AGC threshold +10 dB / ANT 3



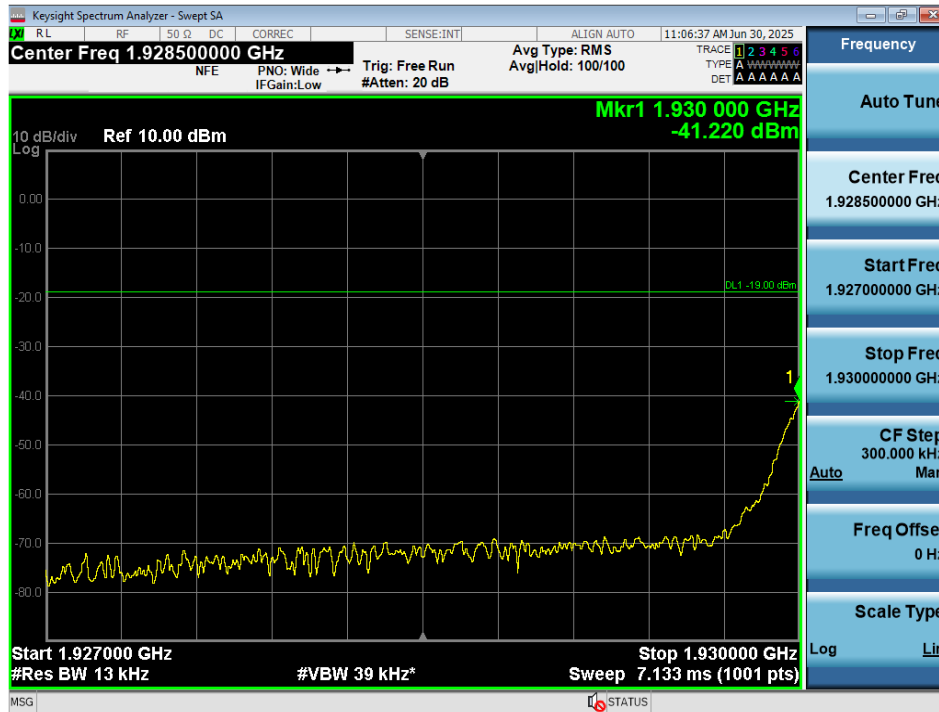
Out-of-Band Emissions / Broadband PCS / Downlink / CDMA / Upper Edge / AGC threshold / ANT 3



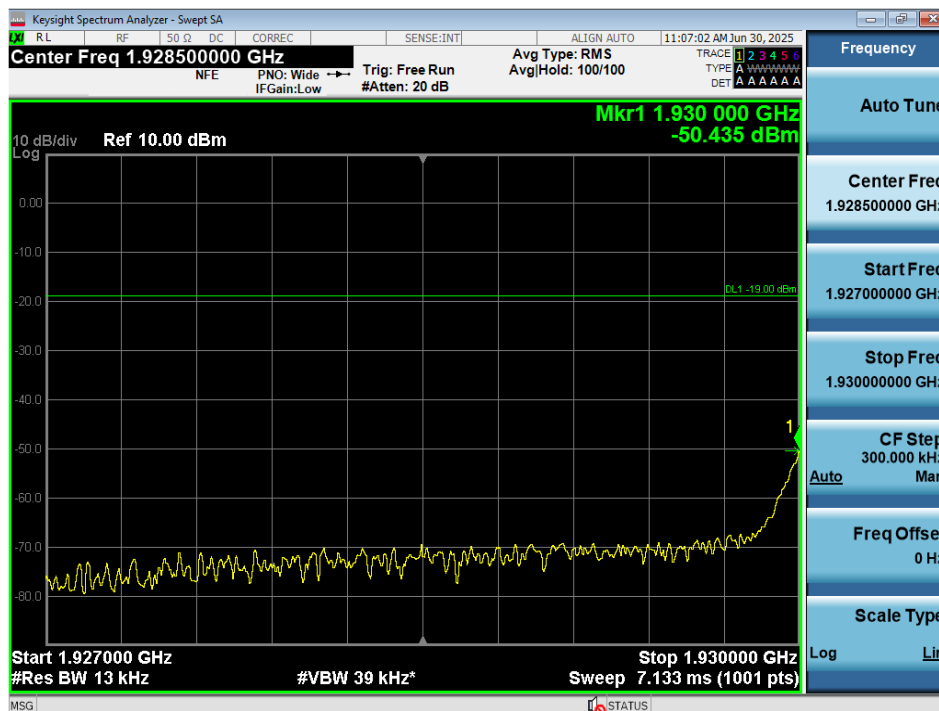
Out-of-Band Emissions / Broadband PCS / Downlink / CDMA / Upper Edge / AGC threshold +10 dB / ANT 3



Out-of-Band Emissions / Broadband PCS / Downlink / CDMA / Lower Edge / AGC threshold / ANT 3



Out-of-Band Emissions / Broadband PCS / Downlink / CDMA / Lower Edge / AGC threshold +10 dB / ANT 3



5.7. CONDUCTED SPURIOUS EMISSIONS

Test Requirements:

§2.1051 Measurements required: Spurious emissions at antenna terminals.

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§22.917 Emission limitations for cellular equipment.

The rules in this section govern the spectral characteristics of emissions in the Cellular Radiotelephone Service.

- (a) Out of band emissions. 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.
- (b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:
 - (1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
 - (2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz.

§24.238 Emission limitations for Broadband PCS equipment.

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

- (a) Out of band emissions. 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.
- (b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

§27.53 Emission limits.

- (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;
 - (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;
 - (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;
 - (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
 - (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

- (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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.
- (h) AWS emission limits
- (1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, 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.
 - (3) Measurement procedure.
 - (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
 - (ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
 - (iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Test Procedures:

Measurements were in accordance with the test methods section 7.6 of KDB 935210 D04 v02r04.

- a) Connect the EUT in normal or test mode as shown in Figures 1 to 3.
- b) Configure the signal generator for AWGN with a 99% OBW of 4.1 MHz operation with a center frequency corresponding to the center of the CMRS band under test.
- c) Set the signal generator amplitude to the pre-AGC threshold level as determined in 7.2.2.
- d) Turn on the signal generator RF output and measure the spurious emission power levels with an appropriate measuring instrument as follows.
 - 1) Set RBW = measurement bandwidth specified in the applicable rule section for the operational frequency band under consideration (see Appendix A for relevant cross-references). Note that many of the individual rule sections permit the use of a narrower RBW [typically $\geq 1\%$ of the emission bandwidth (EBW)] to enhance measurement accuracy, but the result must then be integrated over the specified measurement bandwidth.
 - 2) Set VBW = $3 \times$ RBW.
 - 3) Select the power averaging (rms) detector. (See above NOTE regarding the use of a peak detector for preliminary measurements.)
 - 4) Sweep time = auto-couple.
 - 5) Set the analyzer start frequency to the lowest radio frequency signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part. Note that the number of measurement points in each sweep must be $\geq (2 \times \text{span}/\text{RBW})$ which may require that the measurement range defined by the preceding start and stop frequencies be subdivided, depending on the available number of measurement points of the spectrum analyzer. Trace average at least 10 traces in power averaging (rms) mode.
 - 6) Use the peak marker function to identify the highest amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.
 - 7) Reset the analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the analyzer stop frequency to 10 times the highest frequency of the fundamental emission. Note that the number of measurement points in each sweep must be $\geq (2 \times \text{span}/\text{RBW})$ which may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.
 - 8) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report.
- e) Repeat 7.6b) through 7.6d) for each supported frequency band of operation.

Notes:

1. The EUT operated in test mode with the gain set to maximum and the bandwidth set to minimum (5 MHz).
2. The EUT operated in test mode and was configured according to Figure 2 and 3 of KDB 935210 D04.
3. The following test signal is used.

Signal	Detail	Measurement mode
4.1 MHz AWGN	AWGN signal with a 99% occupied bandwidth of 4.1 MHz	Channel power

4. For most spurious emission tests, a limit of $(P) - (43 + 10 \log(P)) = -13 \text{ dBm}$ is applied.
For the upper 700 MHz band:
 - In the 763 ~ 775 MHz and 793 ~ 805 MHz ranges,
a limit of $(P) - (76 + 10 \log(P)) = -46 \text{ dBm}$ (6.25 kHz RBW) is applied.
 - In the 1 559 ~ 1 610 MHz range,
wideband signals shall be limited to an EIRP of -70 dBW/MHz (-40 dBm , 1 MHz RBW).
 5. Coupling In 9 kHz-150 kHz and 150 kHz-30 MHz bands was measured with the RBW reduced to 1 kHz and 10 kHz, respectively, and a correction factor was applied according to Section 5.7.2 of ANSI C63.26-2015.
- | Band | 9 ~ 150 kHz Correction | 150 kHz ~ 30 MHz Correction |
|--------------------------------|------------------------|-----------------------------|
| Below 1 GHz (Ref.RBW: 100 kHz) | 20 dB | 10 dB |
| Above 1 GHz (Ref.RBW: 1 MHz) | 30 dB | 20 dB |
6. RBW and band separation are in according with note 5 of the out-of-band emissions test in Section 5.6 of this report.

Test Results:

Tabulated Result of Uplink Conducted Spurious Emissions

ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
1	Upper 700 MHz	0.009 ~ 0.15	0.013 653	-13	-50.935
		0.15 ~ 30	0.434		-65.813
		30 ~ 776.9	776.71		-53.357
		787.1 ~ 2 000	787.26		-46.581
		2 000 ~ 4 000	3 814.50		-60.411
		4 000 ~ 6 000	5 190.10		-59.630
		6 000 ~ 8 000	6 926.10		-58.673
		737 ~ 775	774.74	-46	-64.011
		793 ~ 805	793.05		-74.540
		1 559 ~ 1 610 (1 MHz)	1 563.59	-40	-48.085
	Cellular	0.009 ~ 0.15	0.010 551	-13	-53.034
		0.15 ~ 30	0.200		-68.499
		30 ~ 823	822.96		-58.803
		850 ~ 1 000	852.28		-60.471
		1 000 ~ 10 000	9 791.20		-40.148
	AWS-1	0.009 ~ 0.15	0.011 679	-13	-39.319
		0.15 ~ 30	0.971		-58.264
		30 ~ 1 709	1 338.02		-48.454
		1 756 ~ 10 000	9 925.39		-39.553
		10 000 ~ 26 500	26 362.64		-34.999
	Broadband PCS	0.009 ~ 0.15	0.014 922	-13	-43.023
		0.15 ~ 30	0.717		-62.672
		30 ~ 1 849	1 404.62		-48.343
		1 916 ~ 10 000	9 826.60		-40.014
		10 000 ~ 26 500	26 097.81		-35.315

ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
2	Lower 700 MHz	0.009 ~ 0.15	0.014 358	-13	-51.660
		0.15 ~ 30	0.593		-68.297
		30 ~ 698.9	698.90		-59.381
		716.1 ~ 2 000	716.31		-57.105
		2 000 ~ 4 000	2 123.95		-57.245
		4 000 ~ 6 000	5 999.15		-60.099
		6 000 ~ 8 000	7 244.90		-59.767
	Cellular	0.009 ~ 0.15	0.014 781	-13	-49.353
		0.15 ~ 30	0.274		-66.274
		30 ~ 823	800.95		-60.500
		850 ~ 1 000	879.85		-61.084
		1 000 ~ 10 000	9 410.05		-40.146
	AWS-1	0.009 ~ 0.15	0.013 230	-13	-33.981
		0.15 ~ 30	0.364		-62.609
		30 ~ 1 709	1 362.29		-48.590
		1 756 ~ 10 000	2 409.75		-32.253
		10 000 ~ 26 500	26 370.89		-34.015
	Broadband PCS	0.009 ~ 0.15	0.014 922	-13	-41.664
		0.15 ~ 30	0.364		-59.020
		30 ~ 1 849	1 762.05		-48.467
		1 916 ~ 10 000	9 817.30		-39.144
		10 000 ~ 26 500	26 073.48		-34.836

ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
3	Lower 700 MHz	0.009 ~ 0.15	0.009 846	-13	-53.963
		0.15 ~ 30	0.981		-65.824
		30 ~ 698.9	698.83		-57.310
		716.1 ~ 2 000	716.27		-55.781
		2 000 ~ 4 000	2 121.20		-56.567
		4 000 ~ 6 000	4 973.60		-60.159
		6 000 ~ 8 000	7 993.75		-59.785
	Cellular	0.009 ~ 0.15	0.014 640	-13	-49.010
		0.15 ~ 30	0.429		-69.525
		30 ~ 823	793.90		-60.507
		850 ~ 1 000	850.23		-60.331
		1 000 ~ 10 000	8 866.00		-39.555
	AWS-1	0.009 ~ 0.15	0.013 230	-13	-40.032
		0.15 ~ 30	0.419		-59.320
		30 ~ 1 709	1 222.01		-48.842
		1 756 ~ 10 000	9 664.06		-39.512
		10 000 ~ 26 500	25 797.10		-35.439
	Broadband PCS	0.009 ~ 0.15	0.011 820	-13	-39.467
		0.15 ~ 30	0.394		-59.544
		30 ~ 1 849	1 842.72		-47.554
		1 916 ~ 10 000	9 588.93		-39.895
		10 000 ~ 26 500	26 296.64		-35.969

Tabulated Result of Downlink Conducted Spurious Emissions

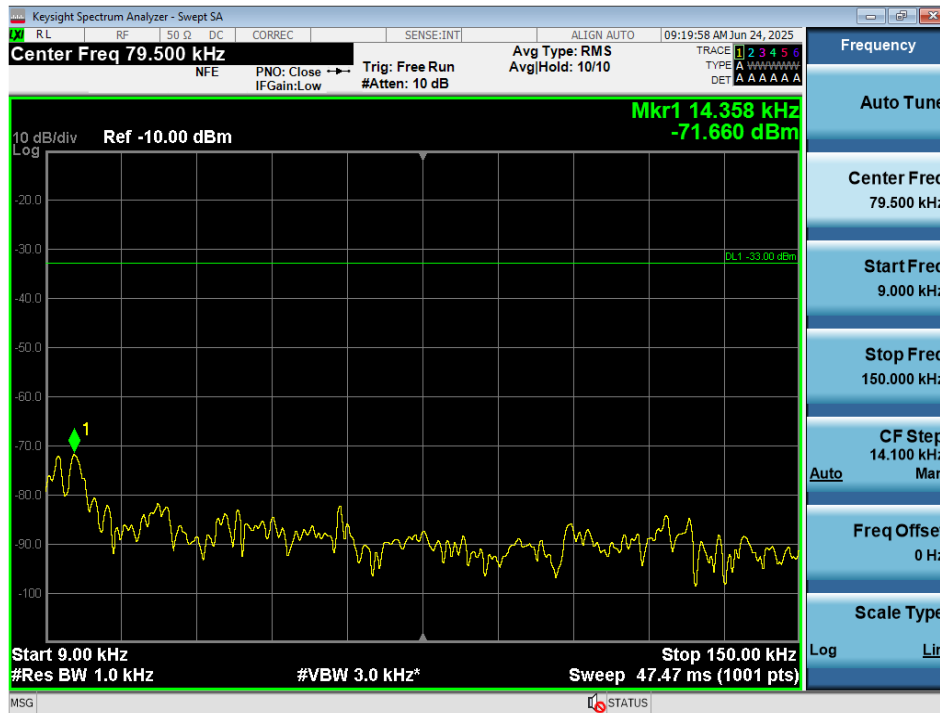
ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
1	Upper 700 MHz	0.009 ~ 0.15	0.014 781	-13	-50.313
		0.15 ~ 30	1.011		-69.357
		30 ~ 745.9	745.22		-60.067
		756.1 ~ 2 000	1 780.00		-59.064
		2 000 ~ 4 000	3 798.30		-60.886
		4 000 ~ 6 000	5 187.40		-60.179
		6 000 ~ 8 000	7 988.85		-59.777
		737 ~ 775	764.89	-46	-83.589
		793 ~ 805	797.84		-83.413
		1 559 ~ 1 610 (1 MHz)	1 584.50	-40	-62.131
	Cellular	0.009 ~ 0.15	0.015 627	-13	-54.687
		0.15 ~ 30	0.971		-70.864
		30 ~ 868	867.54		-61.498
		895 ~ 1 000	973.73		-60.917
		1 000 ~ 10 000	9 786.70		-40.119
	AWS-1	0.009 ~ 0.15	0.012 948	-13	-44.685
		0.15 ~ 30	1.026		-62.390
		30 ~ 2 109	2 062.74		-47.711
		2 156 ~ 10 000	9 644.67		-39.689
		10 000 ~ 26 500	25 764.51		-35.276
	Broadband PCS	0.009 ~ 0.15	0.011 679	-13	-44.329
		0.15 ~ 30	0.424		-59.771
		30 ~ 1 929	1 759.89		-48.223
		1 996 ~ 10 000	9 388.89		-40.374
		10 000 ~ 26 500	26 401.83		-35.246

ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
2	Lower 700 MHz	0.009 ~ 0.15	0.013 935	-13	-50.524
		0.15 ~ 30	0.389		-71.874
		30 ~ 728.9	726.14		-61.630
		746.1 ~ 2 000	1 817.22		-58.319
		2 000 ~ 4 000	3 793.80		-59.523
		4 000 ~ 6 000	5 489.75		-59.099
		6 000 ~ 8 000	7 390.10		-59.972
	Cellular	0.009 ~ 0.15	0.014 076	-13	-51.363
		0.15 ~ 30	1.001		-69.382
		30 ~ 868	825.09		-59.982
		895 ~ 1 000	906.603		-61.387
		1 000 ~ 10 000	8 929.00		-39.088
	AWS-1	0.009 ~ 0.15	0.009 987	-13	-39.572
		0.15 ~ 30	0.374		-52.500
		30 ~ 2 109	2 099.54		-46.363
		2 156 ~ 10 000	8 832.42		-39.668
		10 000 ~ 26 500	26 412.96		-35.089
	Broadband PCS	0.009 ~ 0.15	0.012 948	-13	-39.799
		0.15 ~ 30	18.881		-63.706
		30 ~ 1 929	1 911.53		-49.156
		1 996 ~ 10 000	8 933.07		-40.260
		10 000 ~ 26 500	26 089.15		-35.895

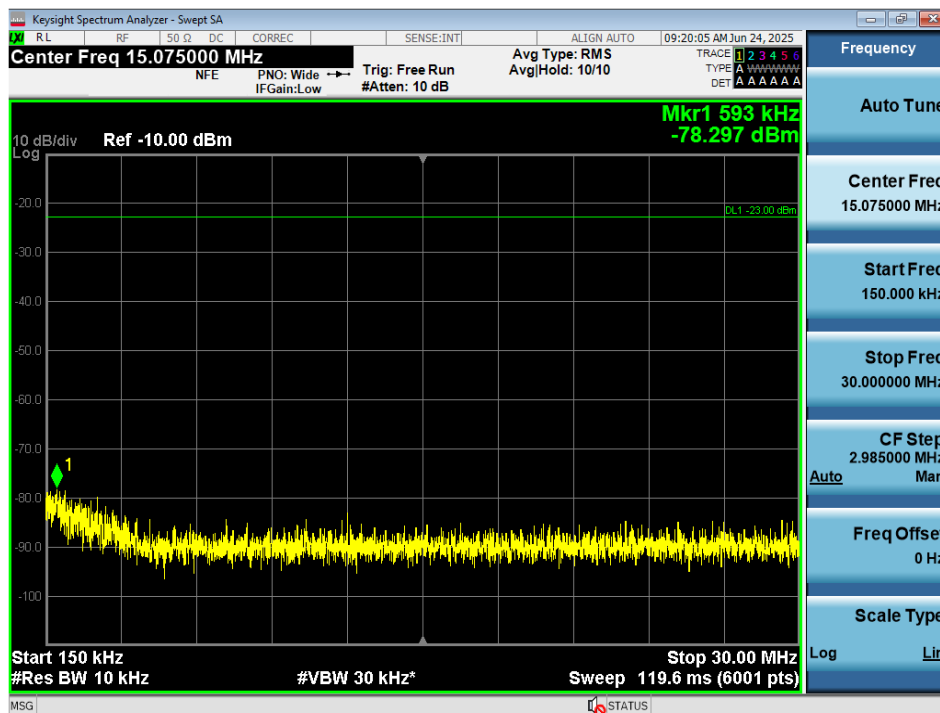
ANT	Band	Range (MHz)	Frequency (MHz)	Limit (dBm)	Spurious Emission (dBm)
3	Lower 700 MHz	0.009 ~ 0.15	0.013 512	-13	-48.302
		0.15 ~ 30	1.488		-73.331
		30 ~ 728.9	649.68		-61.902
		746.1 ~ 2 000	1 752.90		-58.554
		2 000 ~ 4 000	3 782.95		-61.337
		4 000 ~ 6 000	5 264.10		-60.451
		6 000 ~ 8 000	7 994.75		-59.656
	Cellular	0.009 ~ 0.15	0.012 666	-13	-44.444
		0.15 ~ 30	0.991		-71.023
		30 ~ 868	811.14		-60.545
		895 ~ 1 000	914.83		-61.594
		1 000 ~ 10 000	9 829.90		-40.038
	AWS-1	0.009 ~ 0.15	0.012 525	-13	-42.548
		0.15 ~ 30	0.389		-61.978
		30 ~ 2 109	2 065.65		-46.469
		2 156 ~ 10 000	2 156.00		-28.510
		10 000 ~ 26 500	26 418.74		-35.308
	Broadband PCS	0.009 ~ 0.15	0.012 807	-13	-36.282
		0.15 ~ 30	0.986		-58.977
		30 ~ 1 929	1 860.16		-47.230
		1 996 ~ 10 000	9 763.88		-39.865
		10 000 ~ 26 500	26 499.18		-35.065

Plot data of Conducted Spurious Emissions

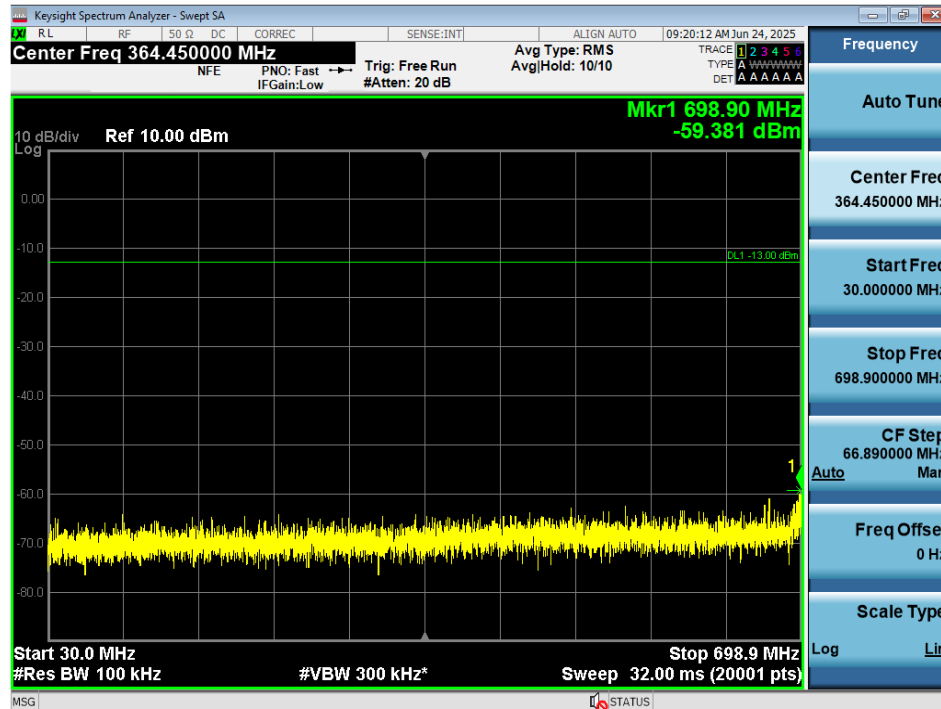
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 9 kHz ~ 150 kHz / ANT 2



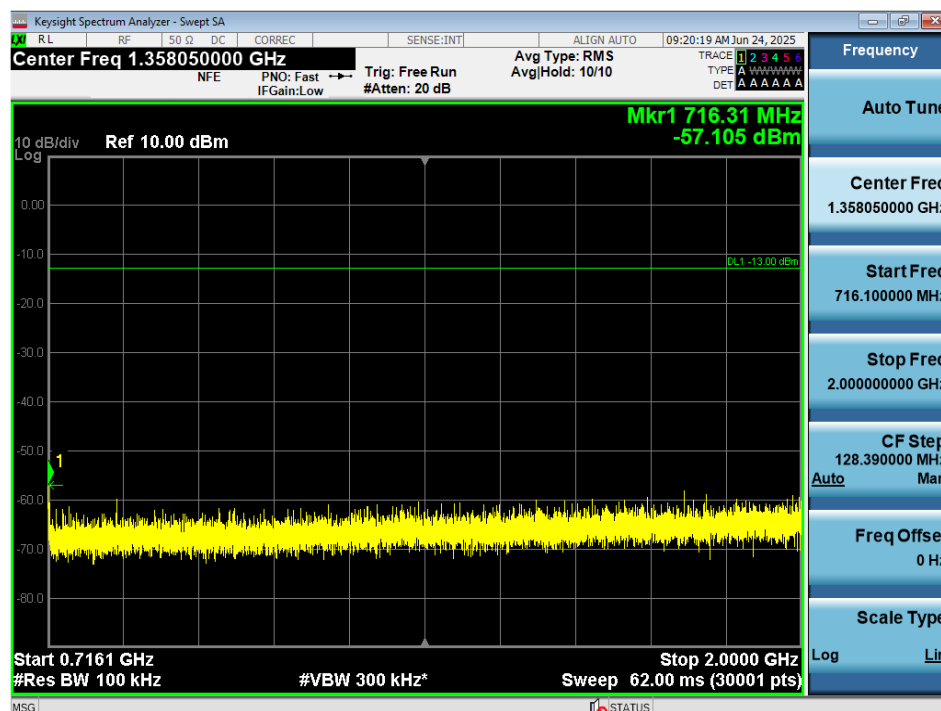
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 150 kHz ~ 30 MHz / ANT 2



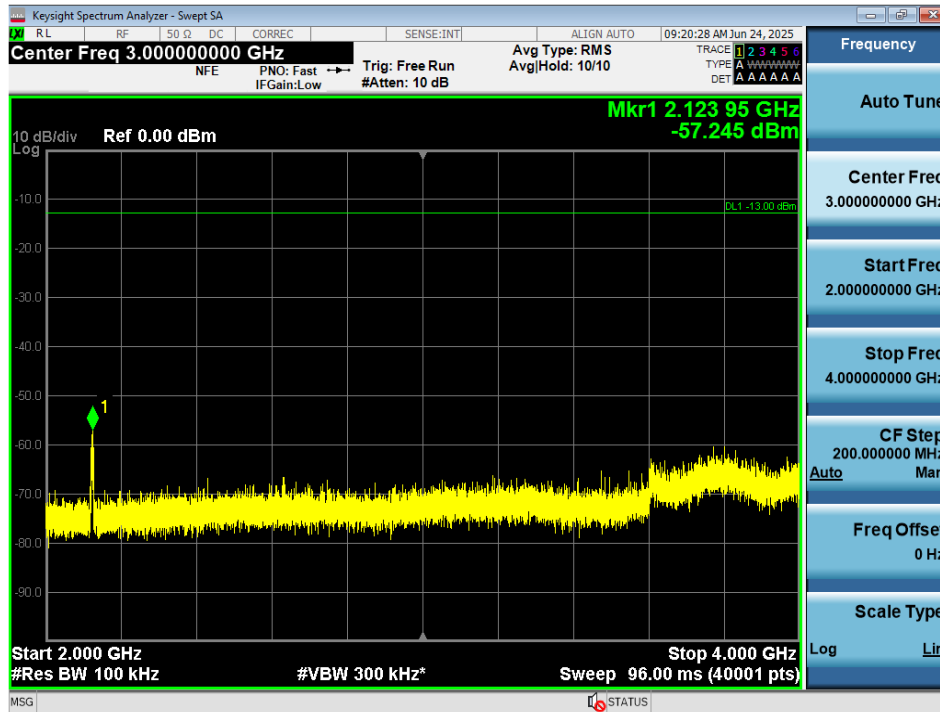
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 30 MHz ~ 697.9 MHz / ANT 2



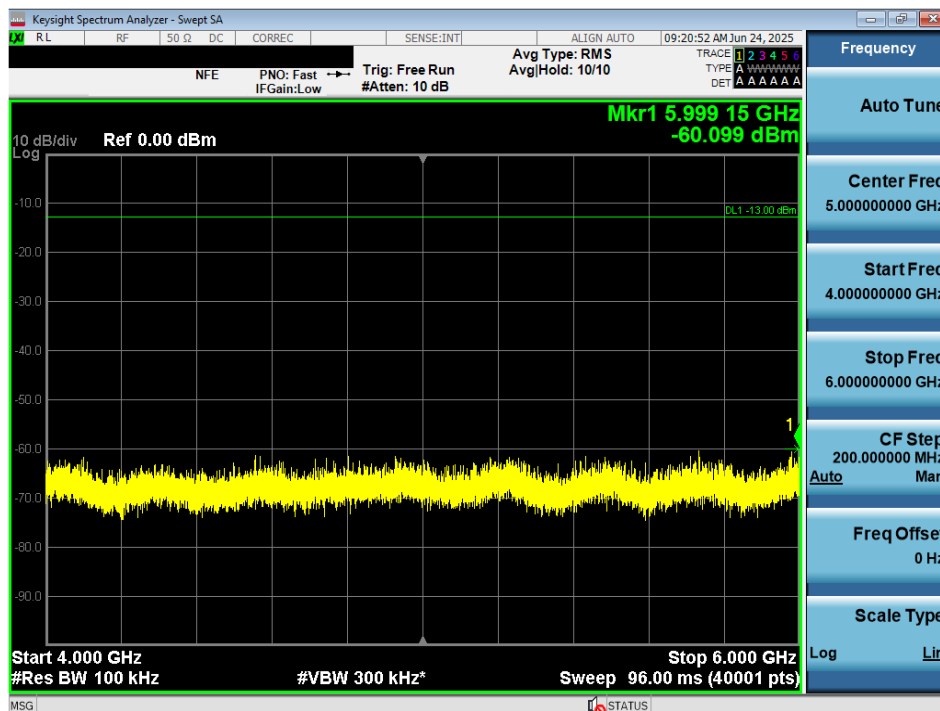
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 716.1 MHz ~ 2 GHz / ANT 2



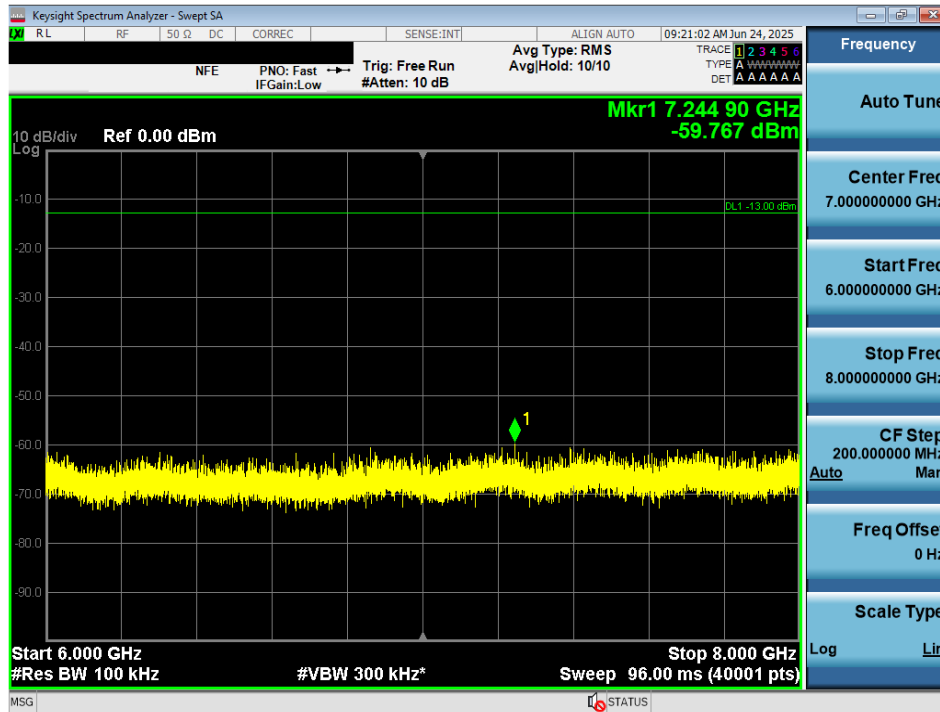
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 2 GHz ~ 4 GHz / ANT 2



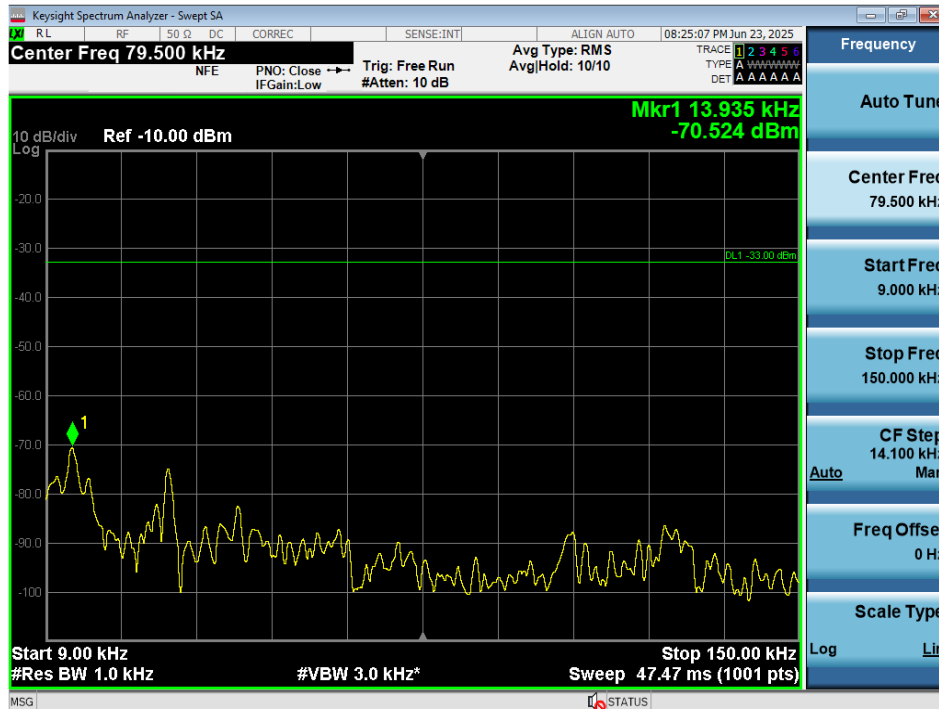
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 4 GHz ~ 6 GHz / ANT 2



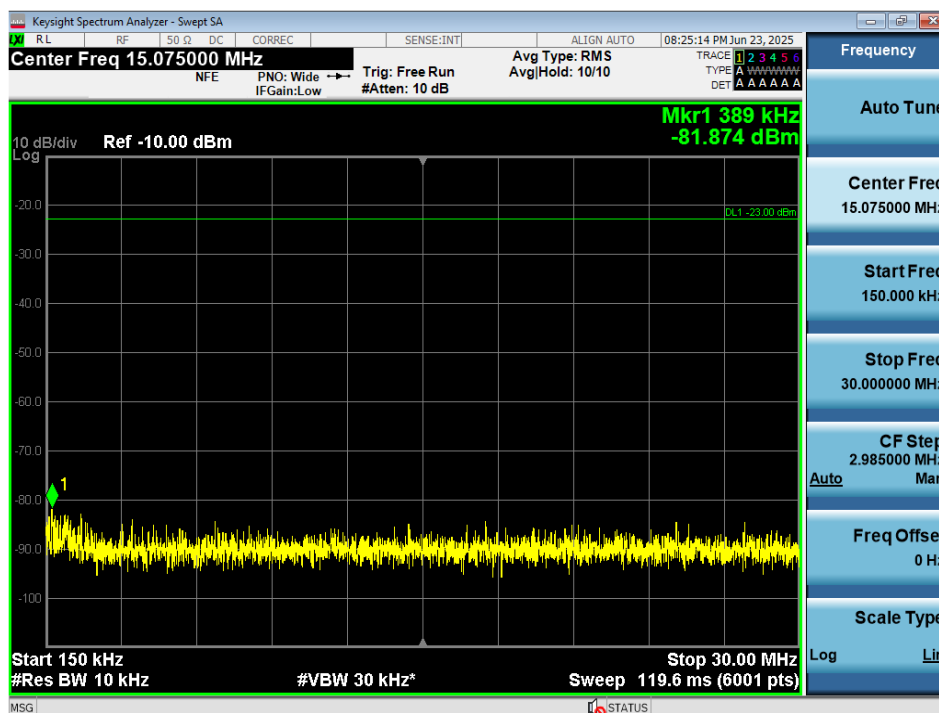
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 6 GHz ~ 8 GHz / ANT 2



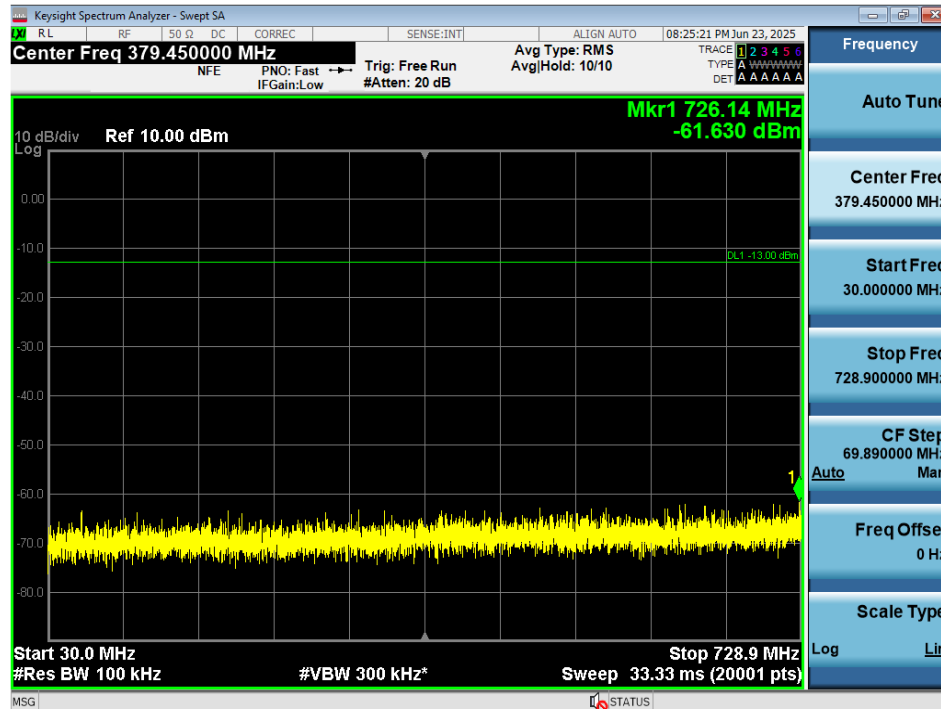
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 9 kHz ~ 150 kHz / ANT 2



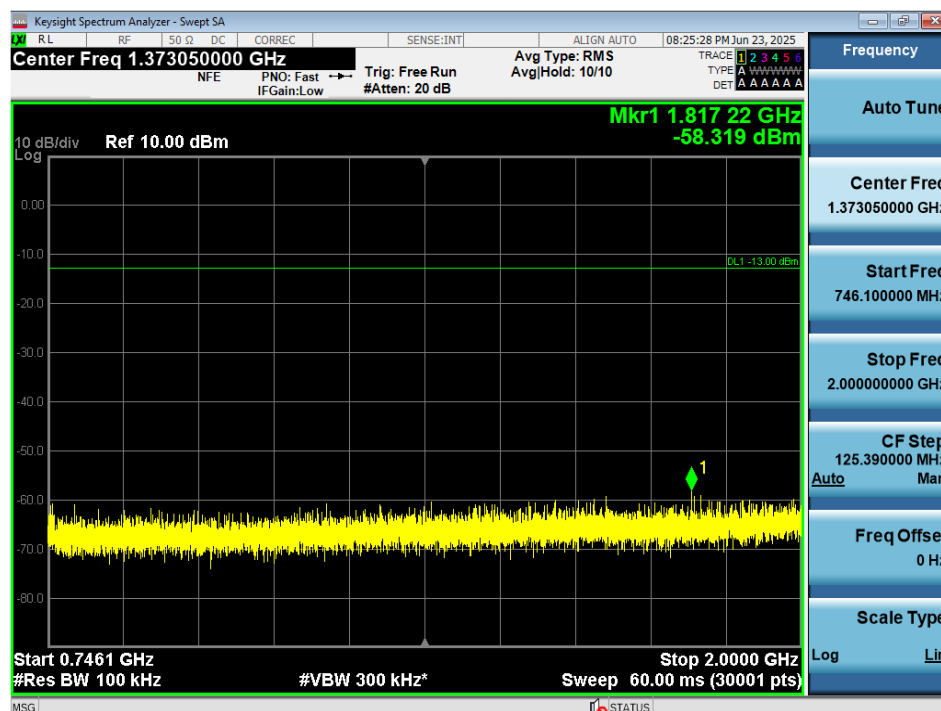
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 150 kHz ~ 30 MHz / ANT 2



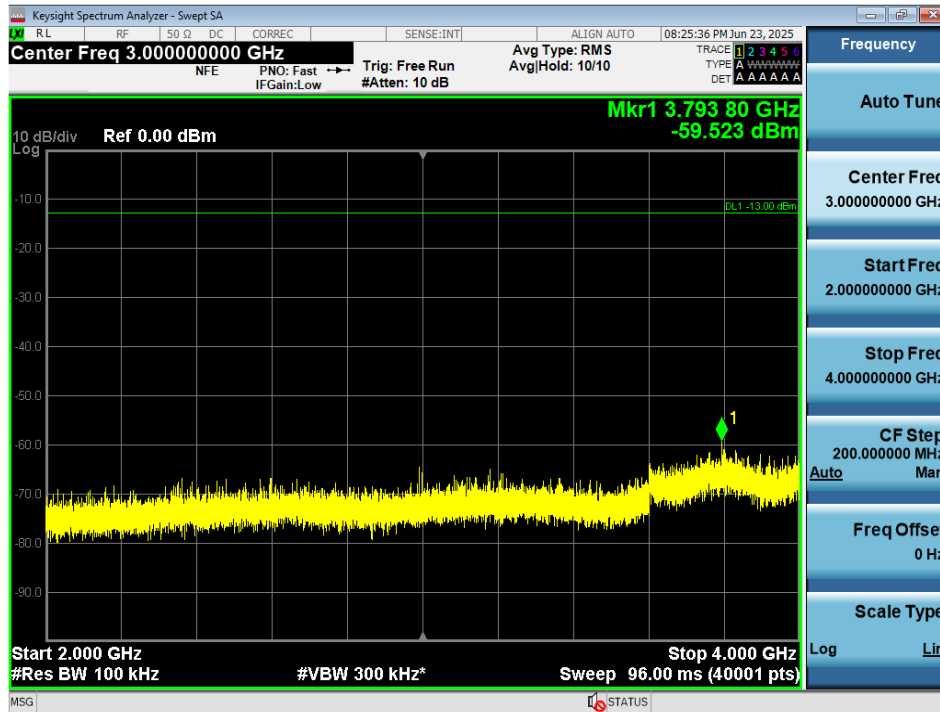
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 30 MHz ~ 727.9 MHz / ANT 2



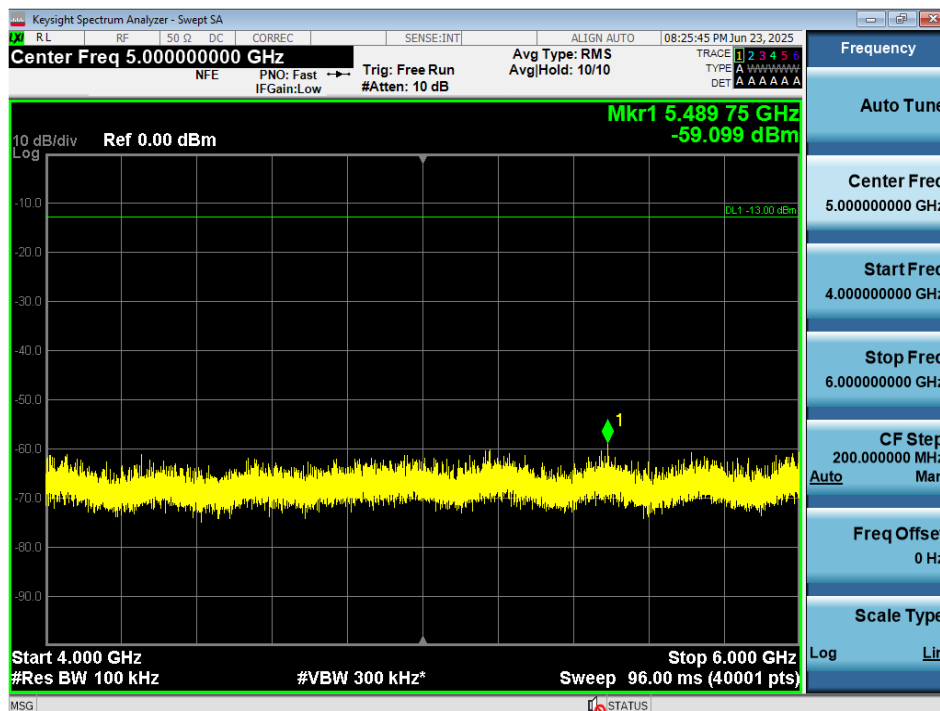
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 746.1 MHz ~ 2 GHz / ANT 2



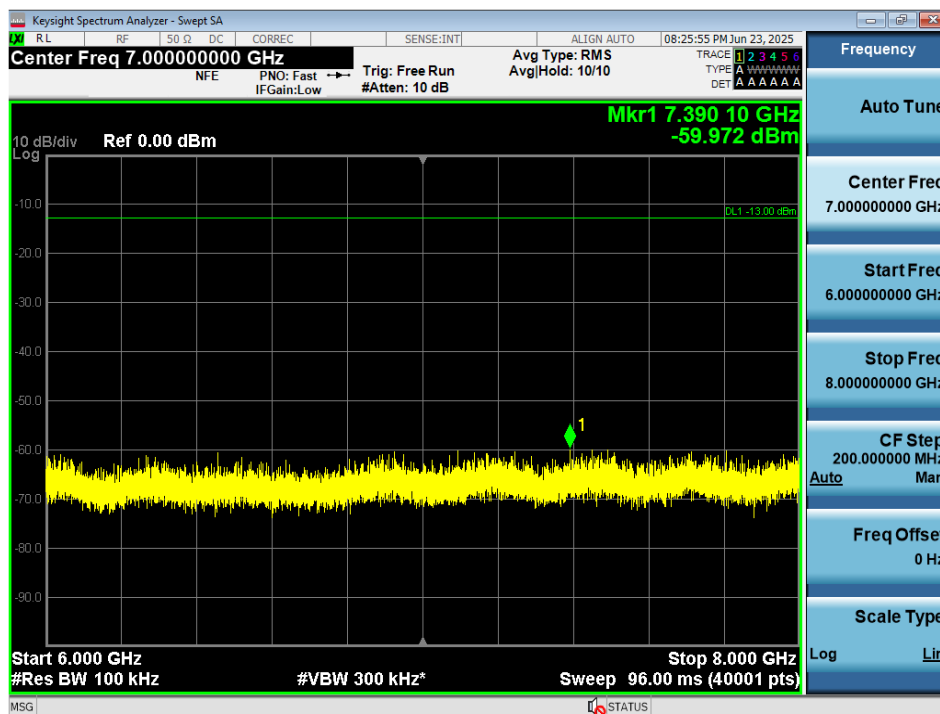
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 2 GHz ~ 4 GHz / ANT 2



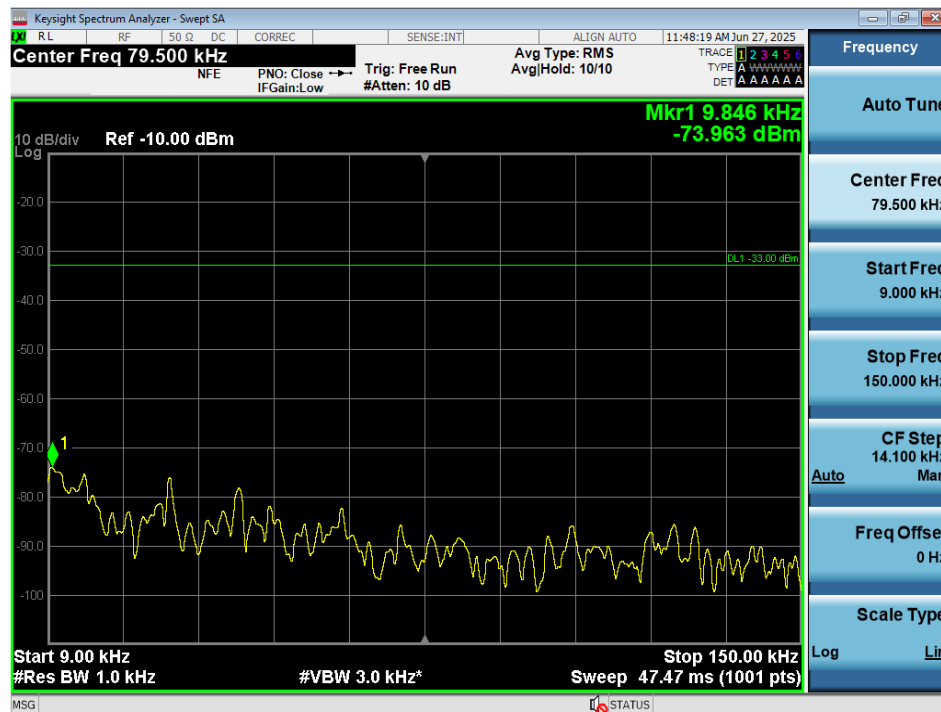
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 4 GHz ~ 6 GHz / ANT 2



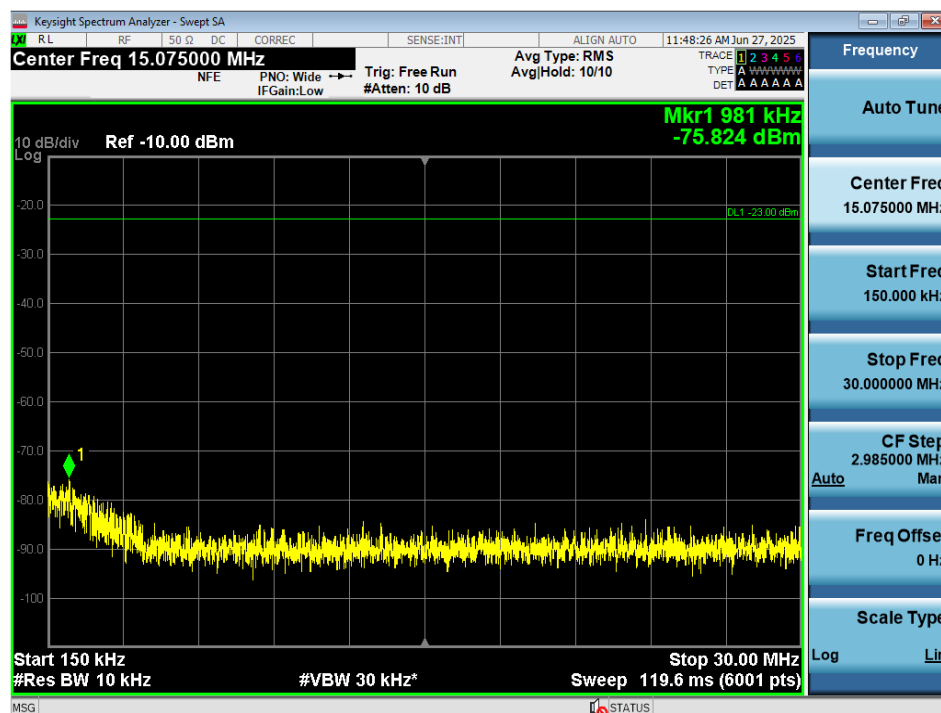
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 6 GHz ~ 8 GHz / ANT 2



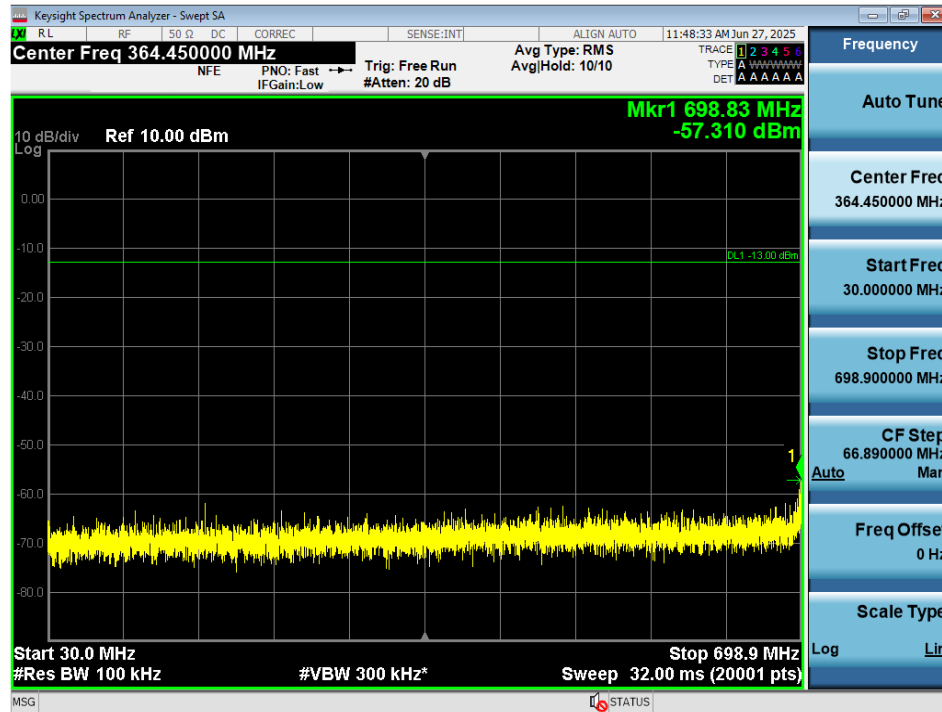
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 9 kHz ~ 150 kHz / ANT 3



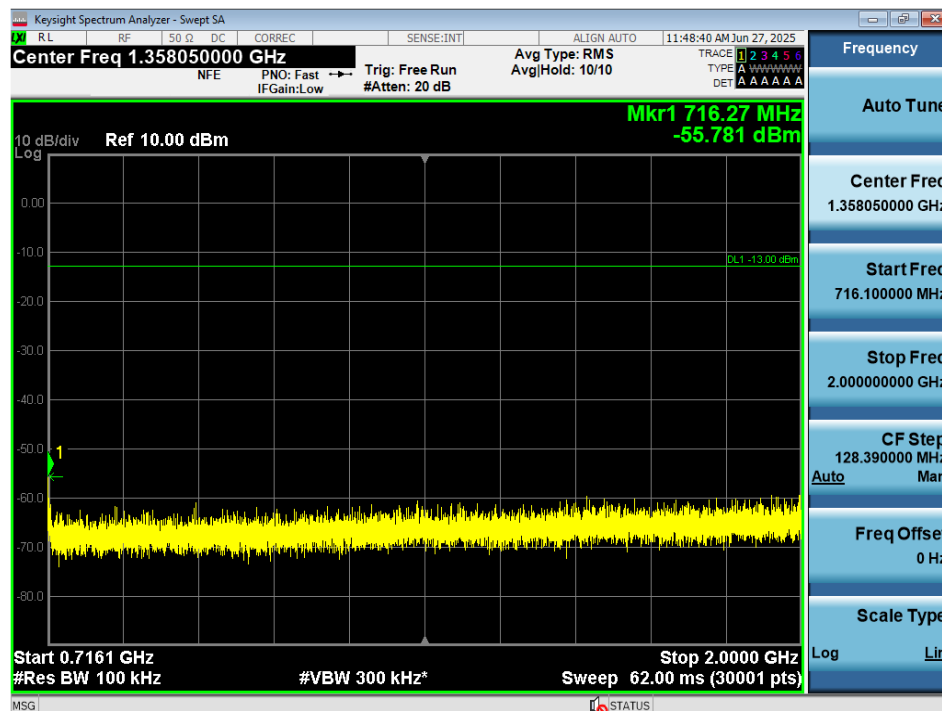
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 150 kHz ~ 30 MHz / ANT 3



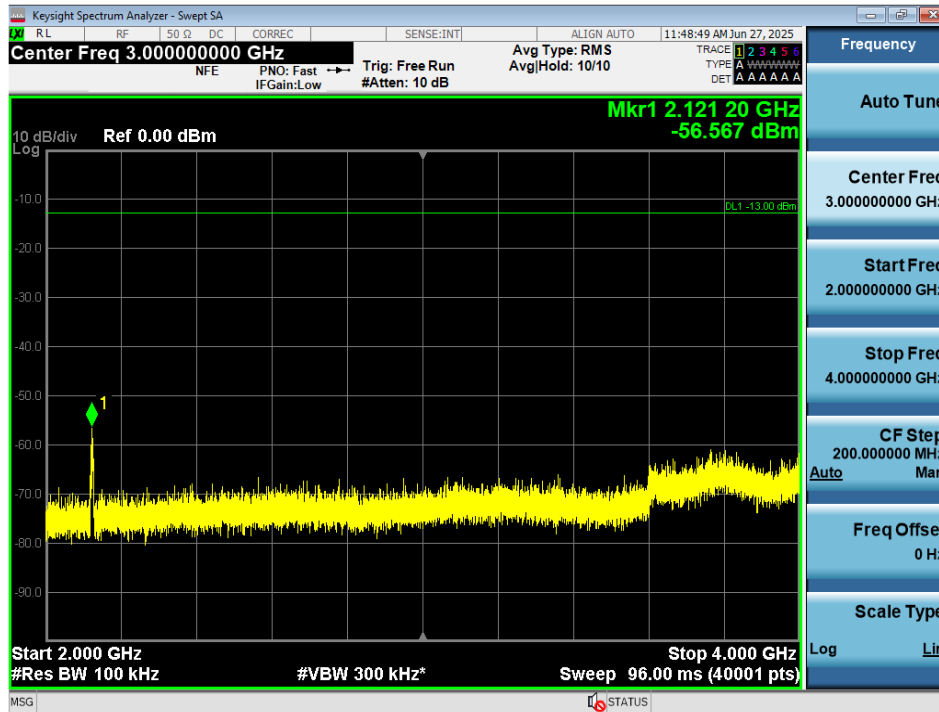
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 30 MHz ~ 697.9 MHz / ANT 3



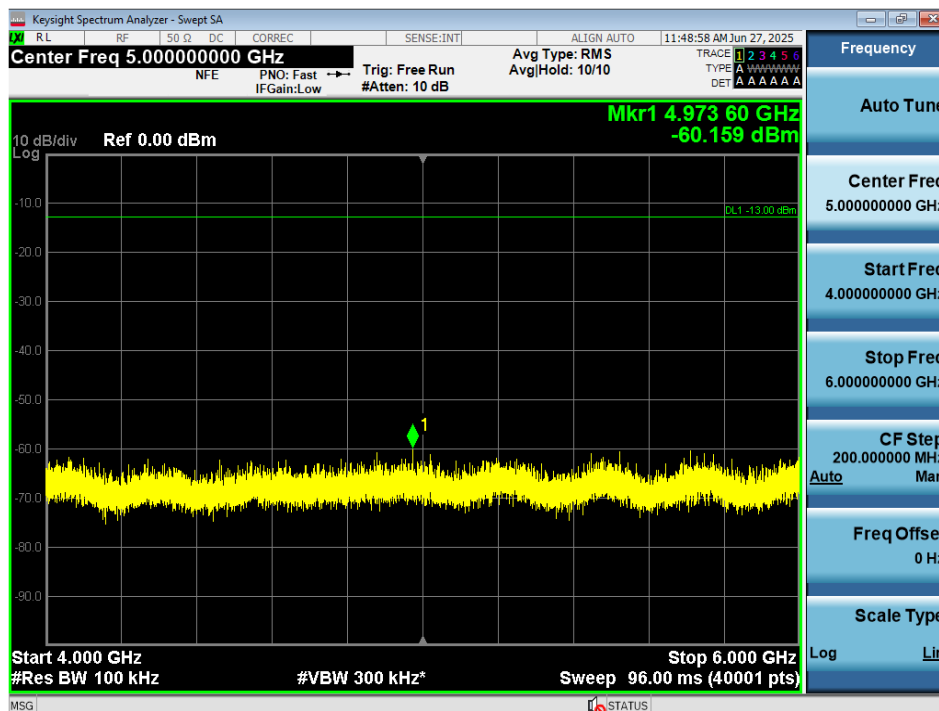
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 716.1 MHz ~ 2 GHz / ANT 3



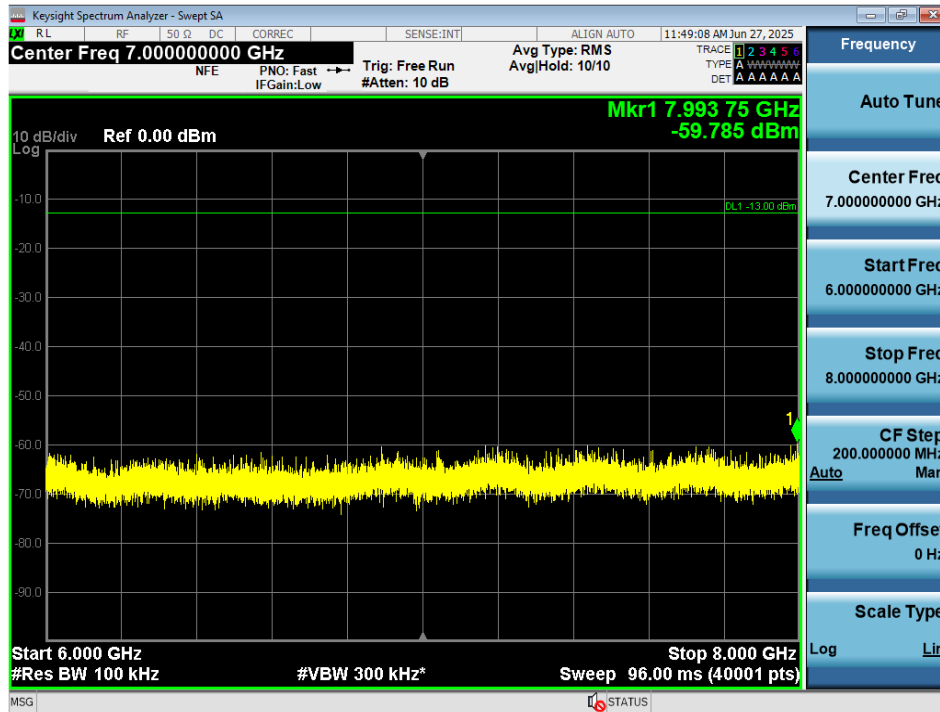
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 2 GHz ~ 4 GHz / ANT 3



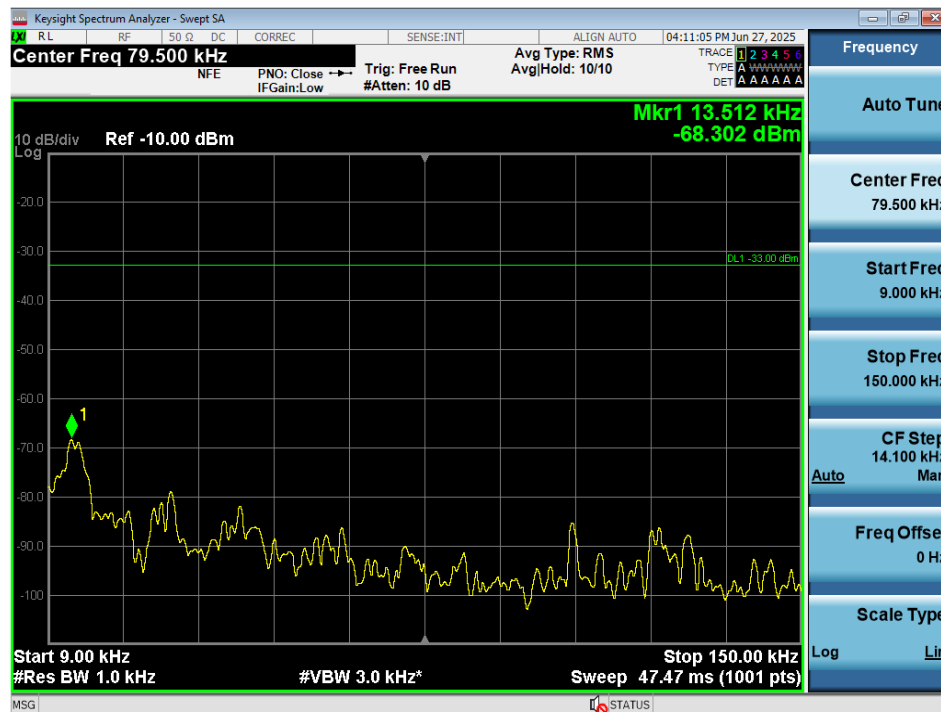
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 4 GHz ~ 6 GHz / ANT 3



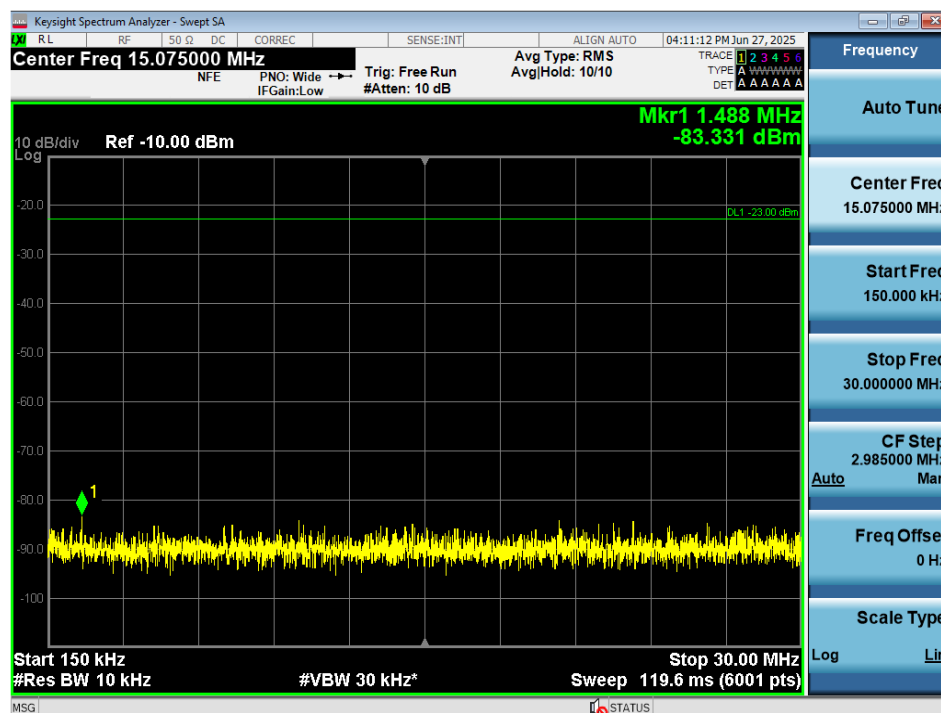
Conducted Spurious Emissions / Lower 700 MHz / Uplink / 6 GHz ~ 8 GHz / ANT 3



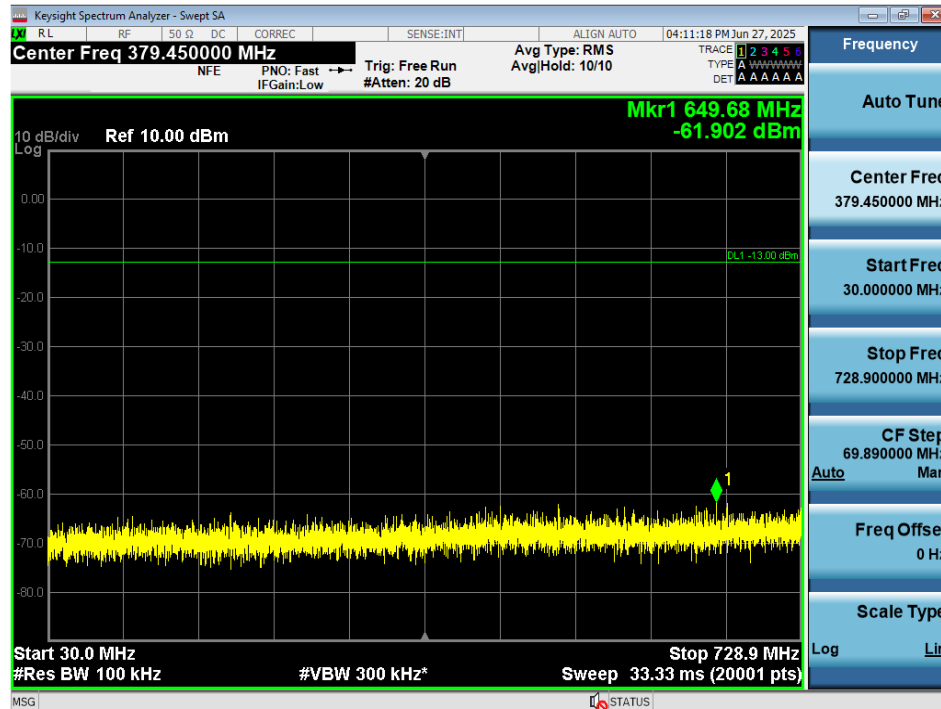
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 9 kHz ~ 150 kHz / ANT 3



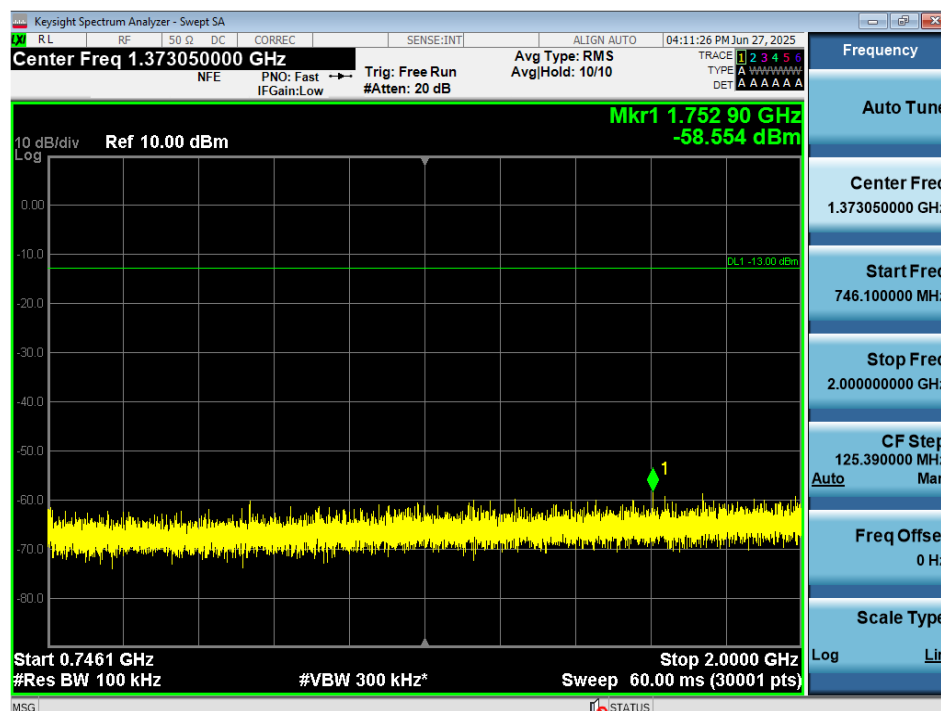
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 150 kHz ~ 30 MHz / ANT 3



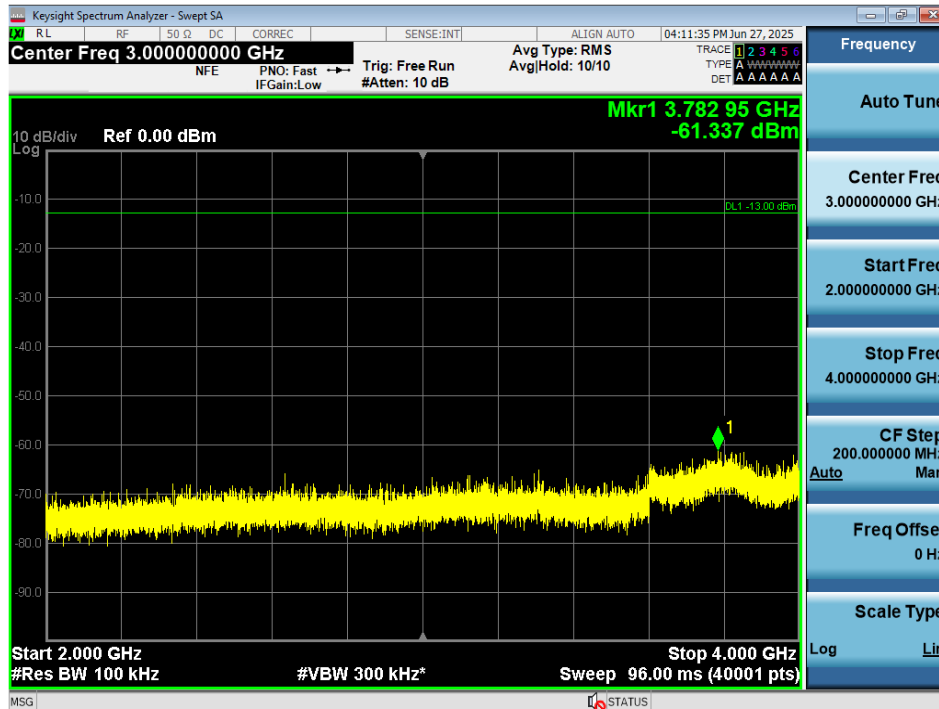
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 30 MHz ~ 727.9 MHz / ANT 3



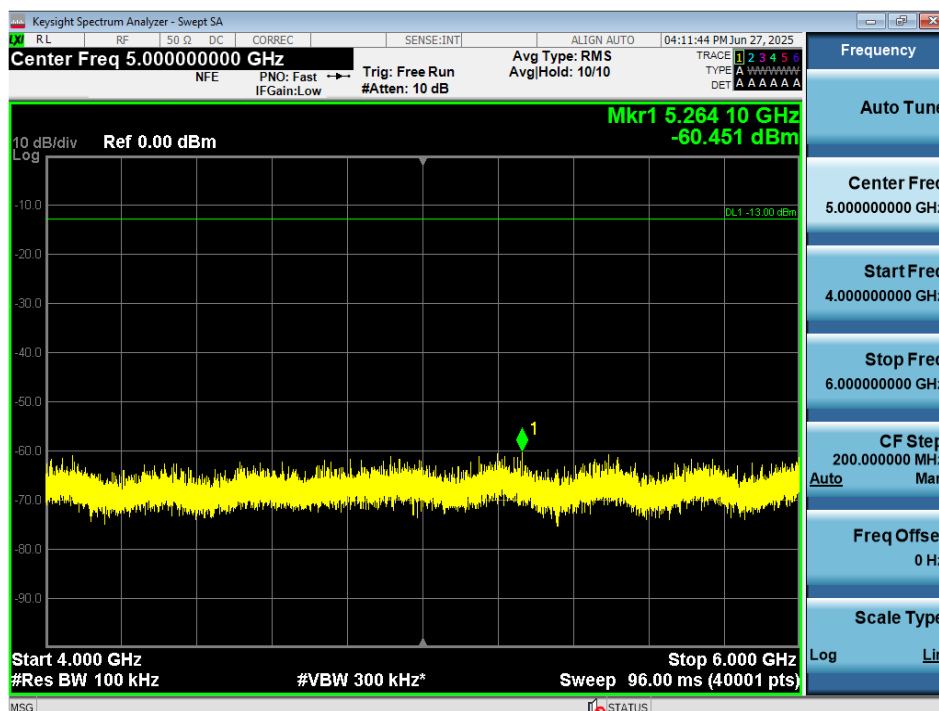
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 746.1 MHz ~ 2 GHz / ANT 3



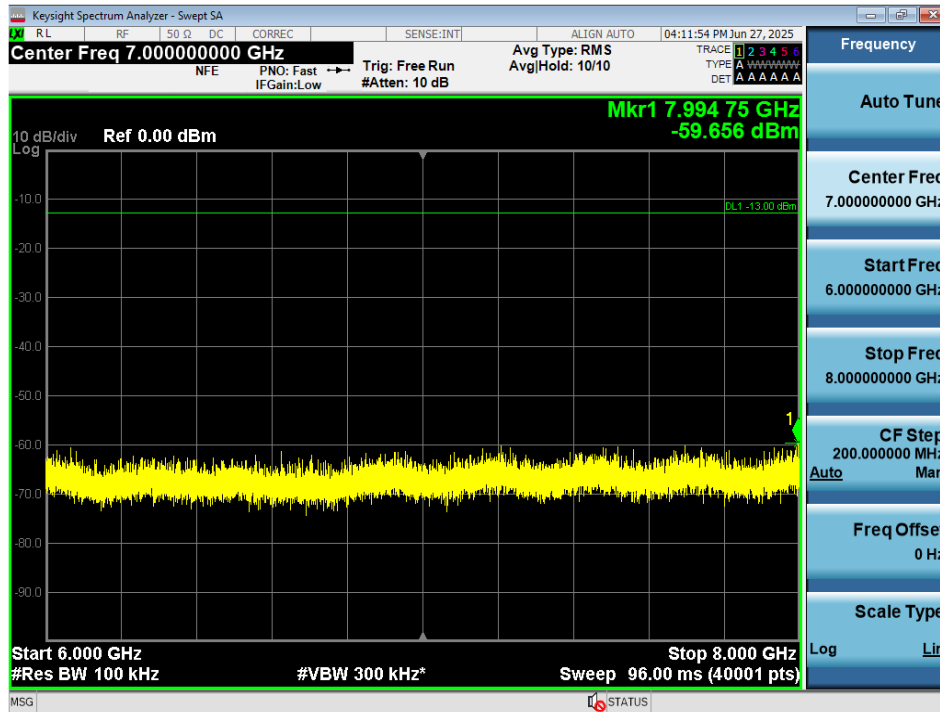
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 2 GHz ~ 4 GHz / ANT 3



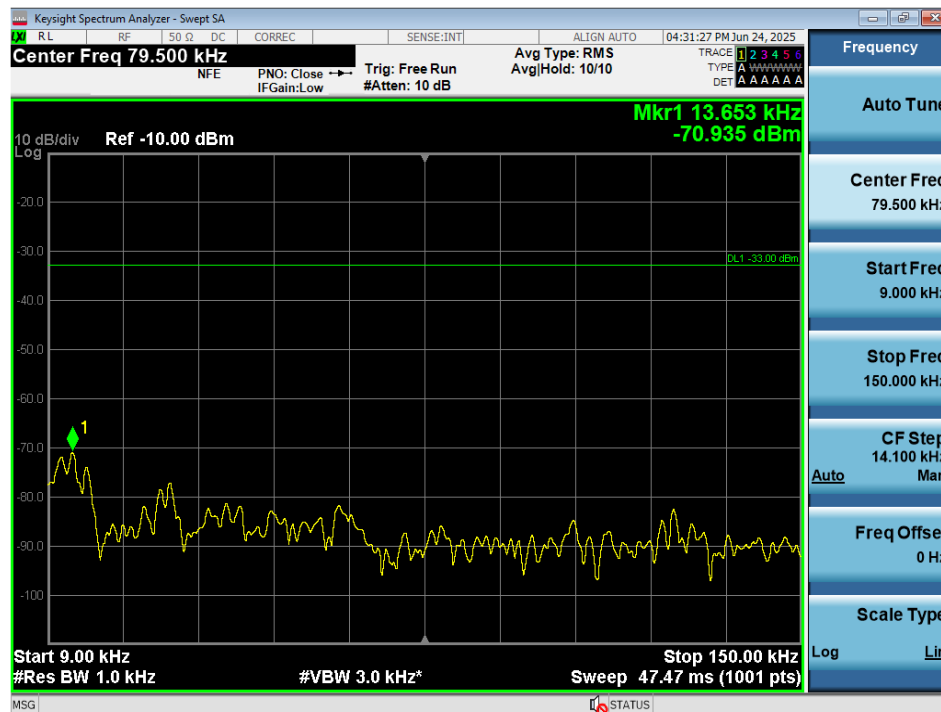
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 4 GHz ~ 6 GHz / ANT 3



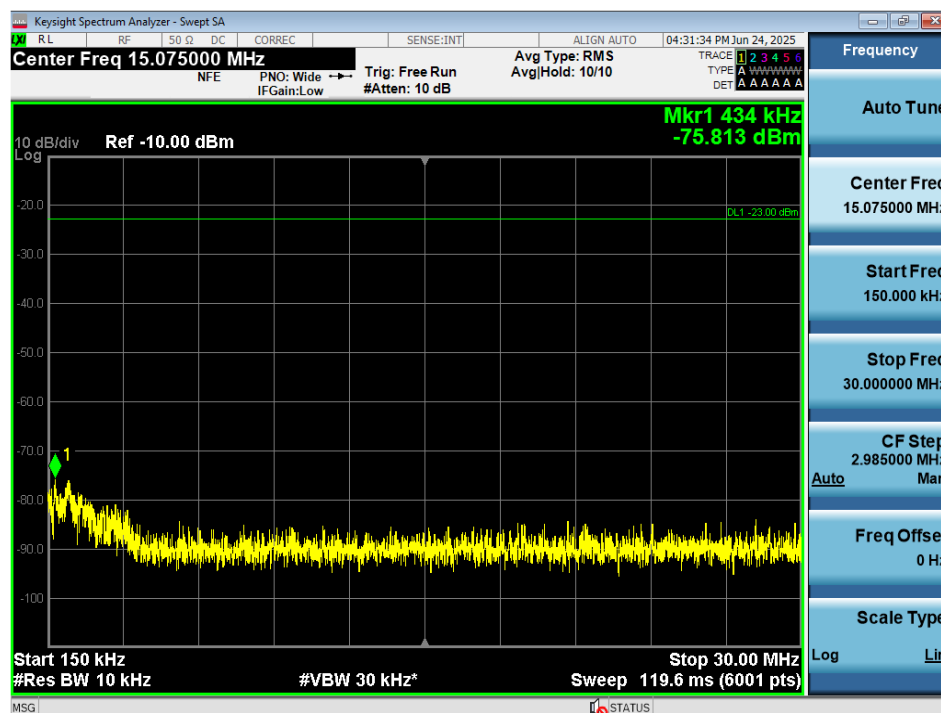
Conducted Spurious Emissions / Lower 700 MHz / Downlink / 6 GHz ~ 8 GHz / ANT 3



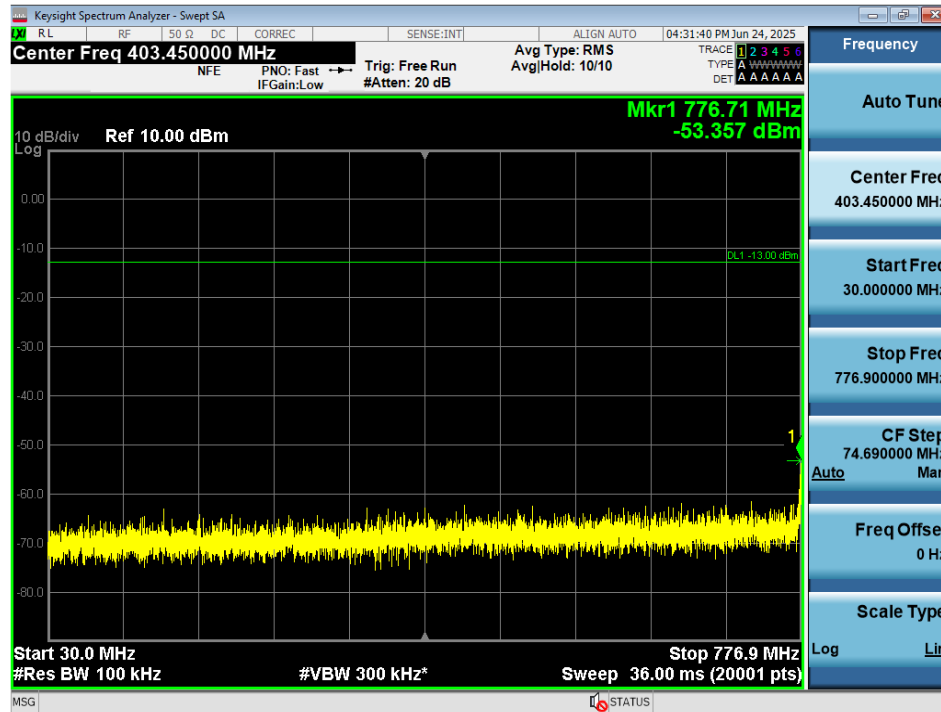
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 9 kHz ~ 150 kHz / ANT 1



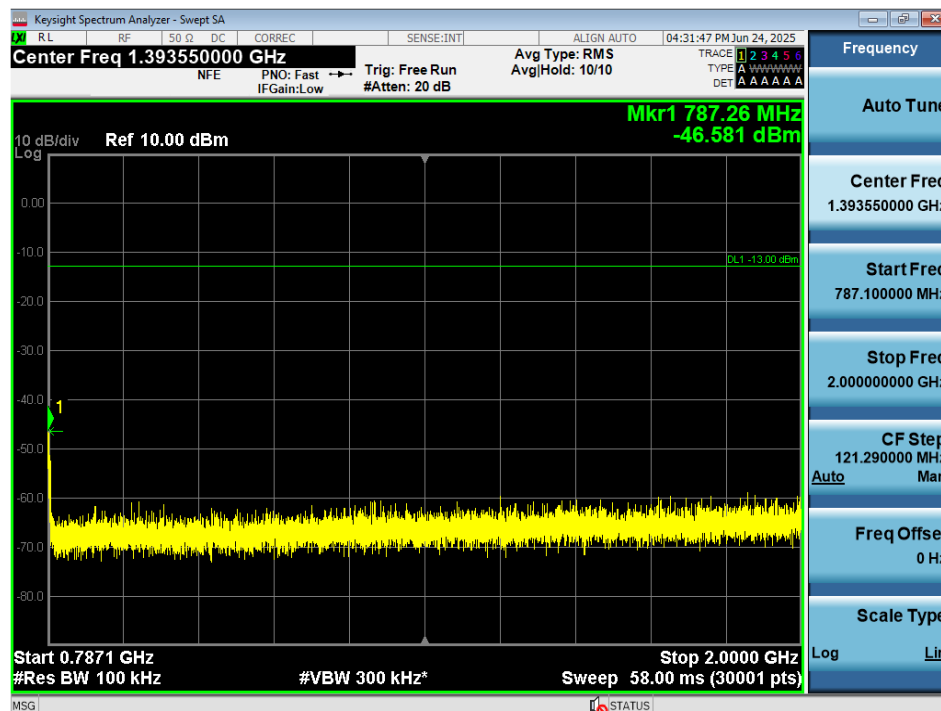
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 150 kHz ~ 30 MHz / ANT 1



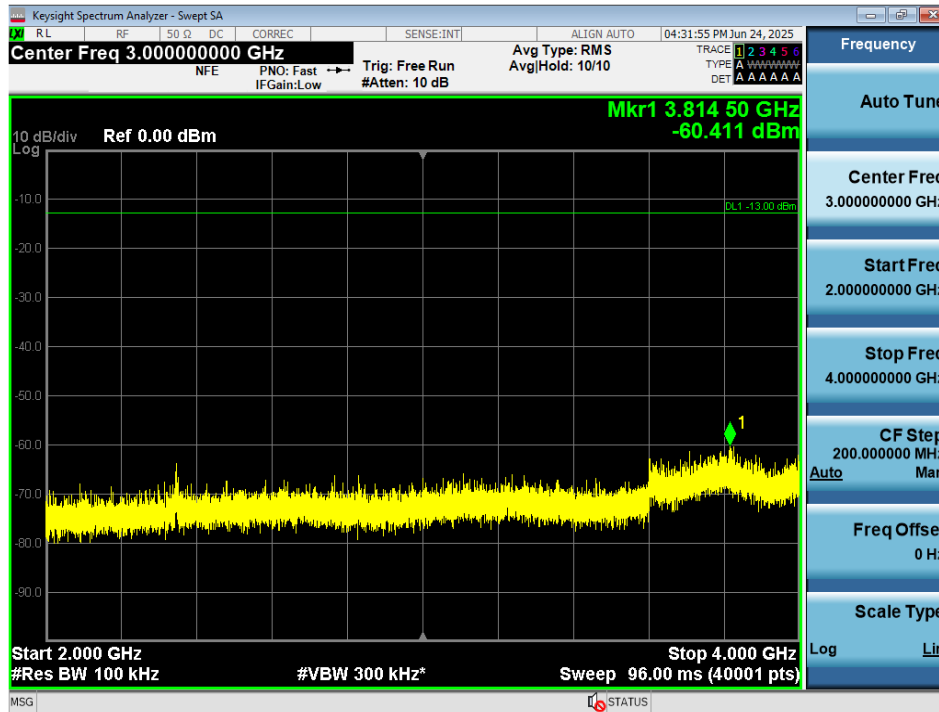
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 30 MHz ~ 776.9 MHz / ANT 1



Conducted Spurious Emissions / Upper 700 MHz / Uplink / 787.1 MHz ~ 2 GHz / ANT 1



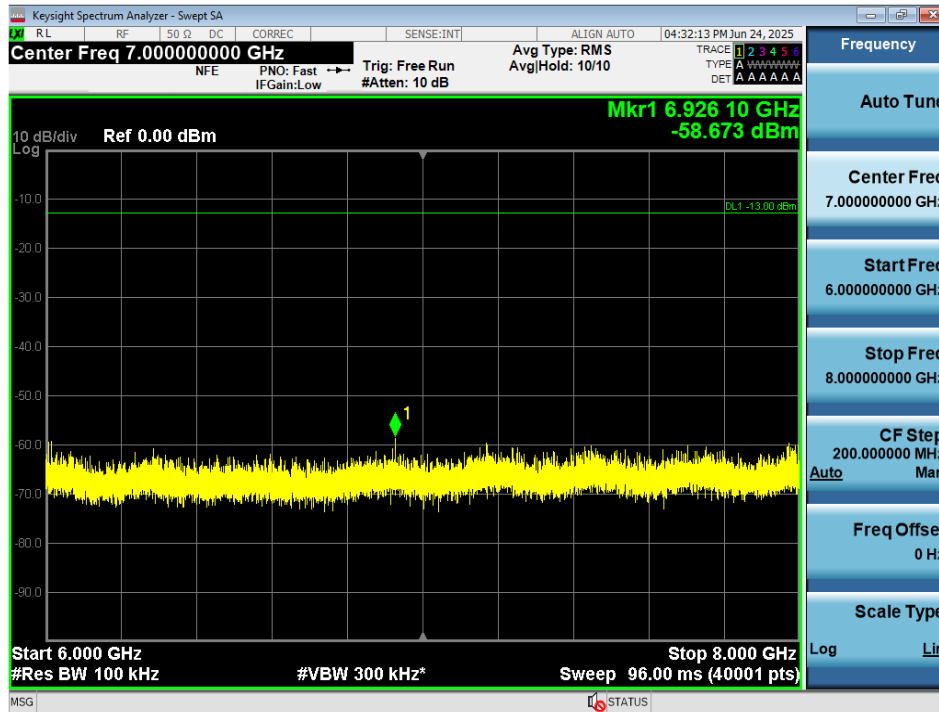
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 2 GHz ~ 4 GHz / ANT 1



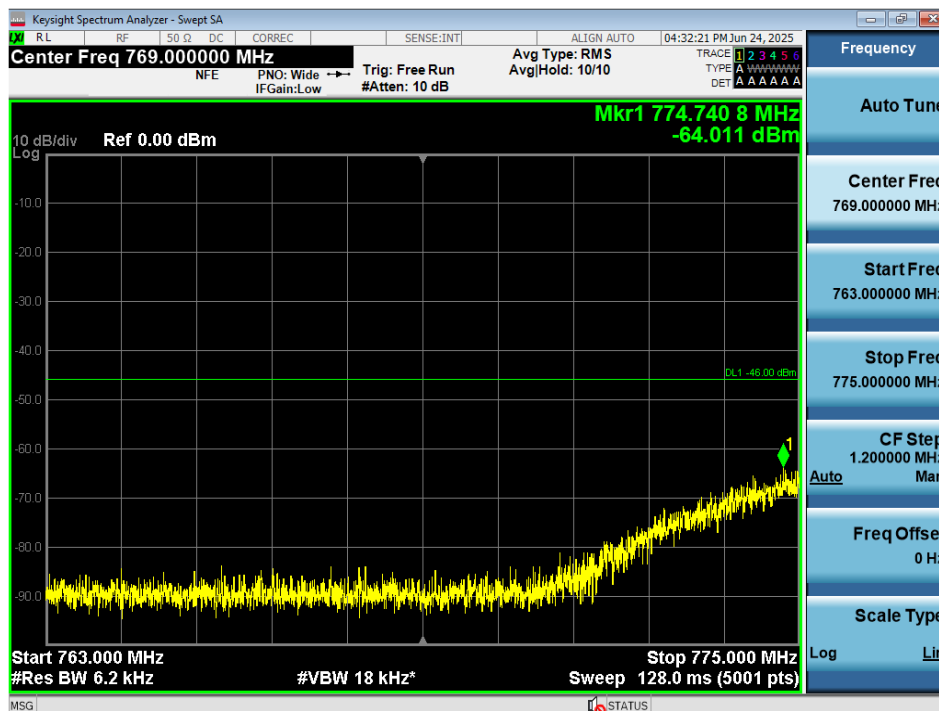
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 4 GHz ~ 6 GHz / ANT 1



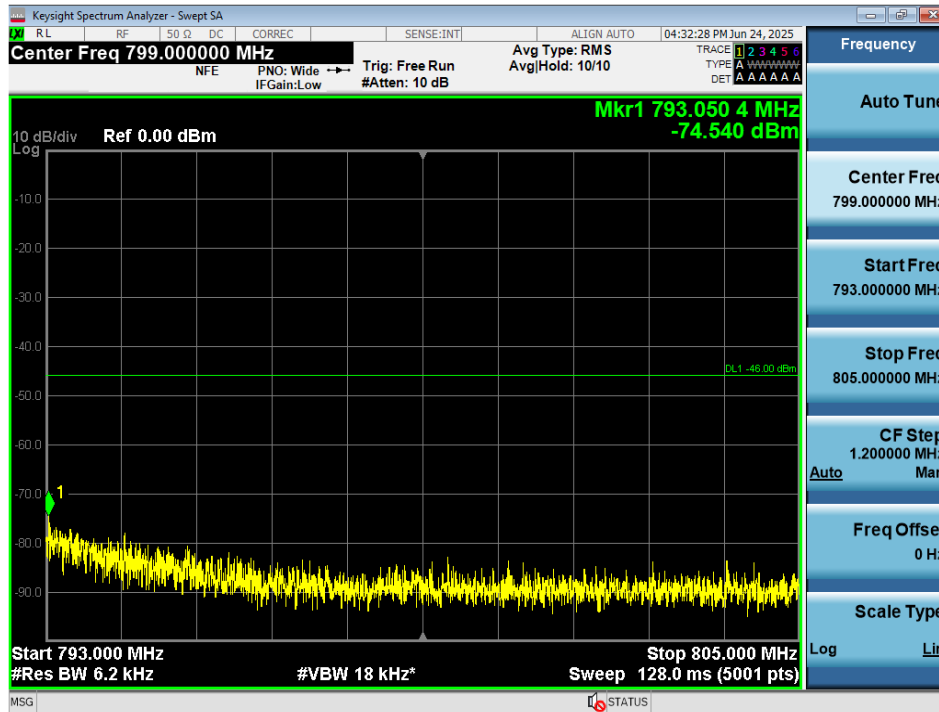
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 6 GHz ~ 8 GHz / ANT 1



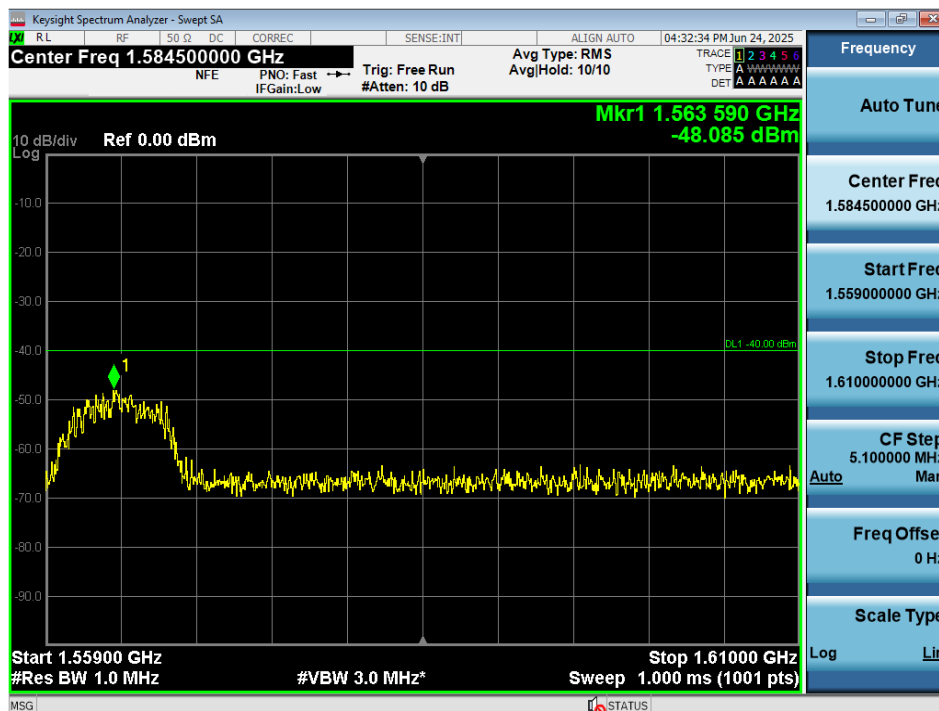
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 763 MHz ~ 775 MHz / ANT 1



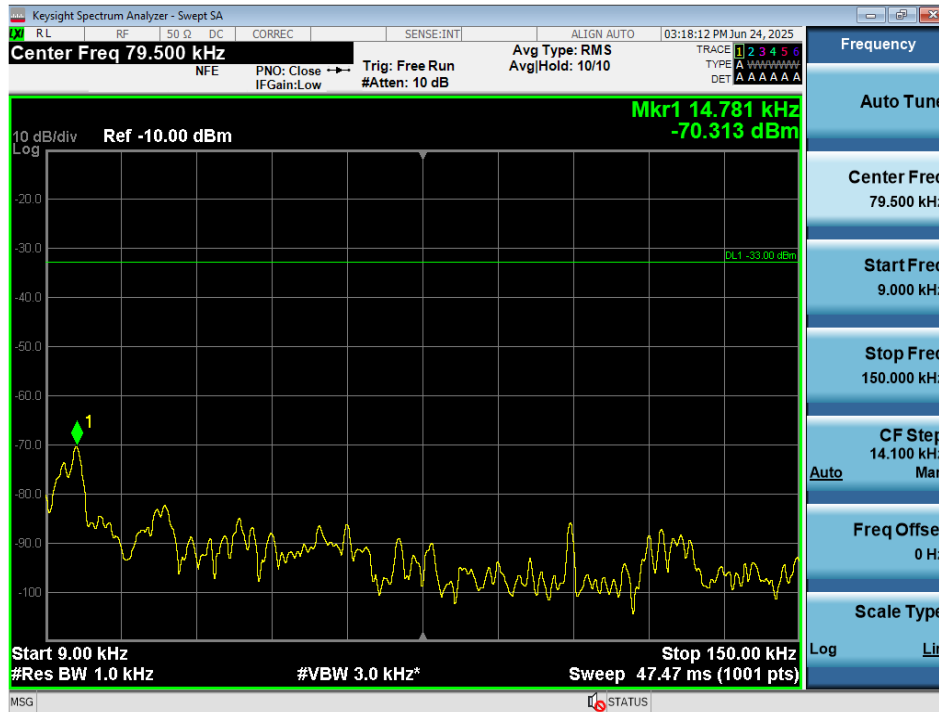
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 793 MHz ~ 805 MHz / ANT 1



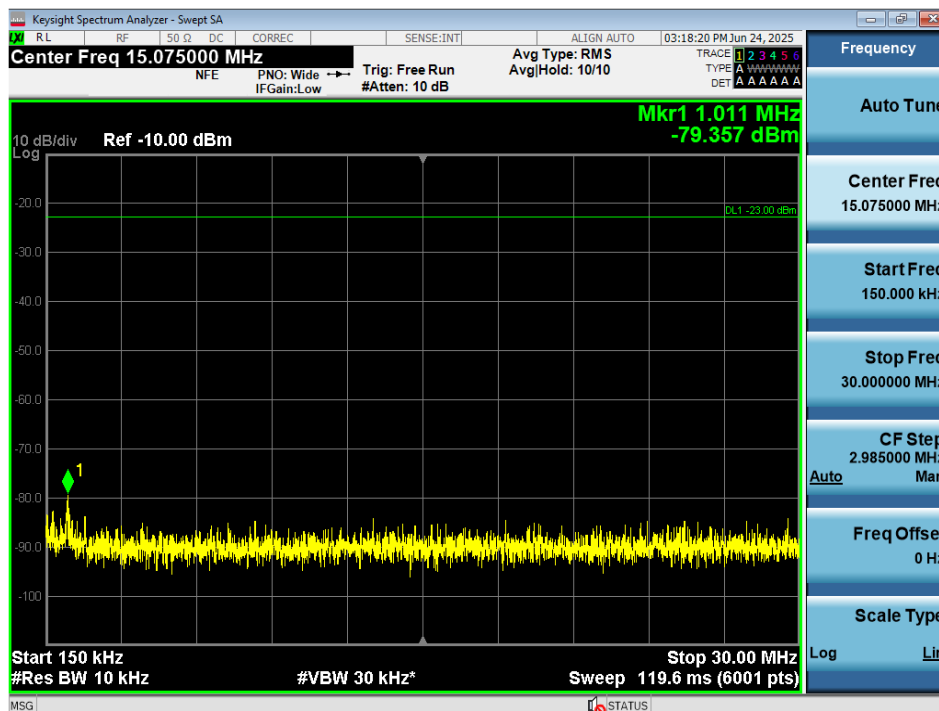
Conducted Spurious Emissions / Upper 700 MHz / Uplink / 1.559 GHz ~ 1.610 GHz / ANT 1



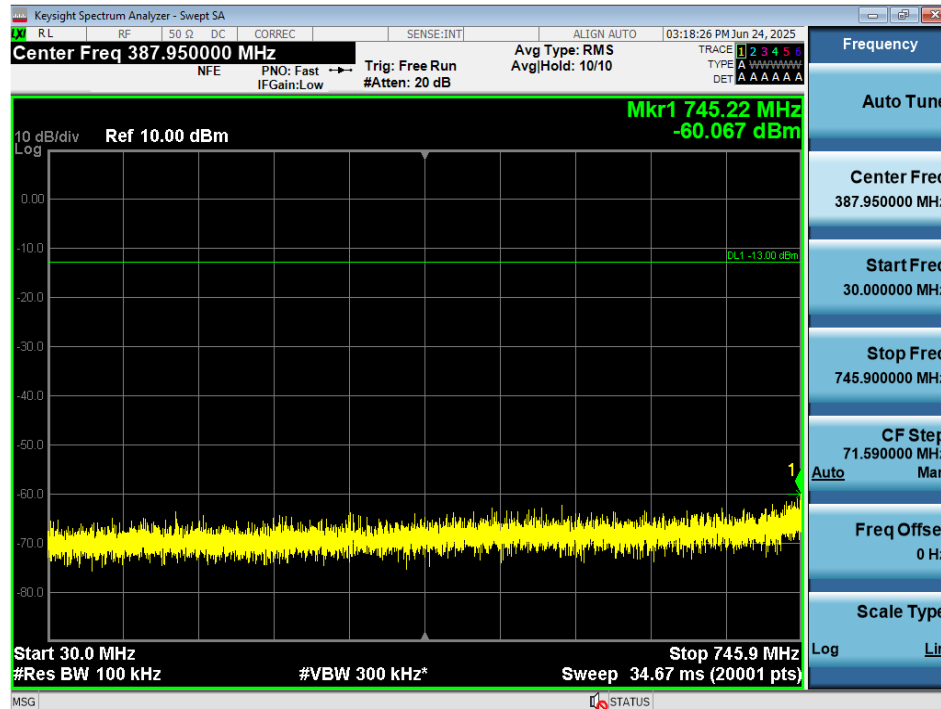
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 9 kHz ~ 150 kHz / ANT 1



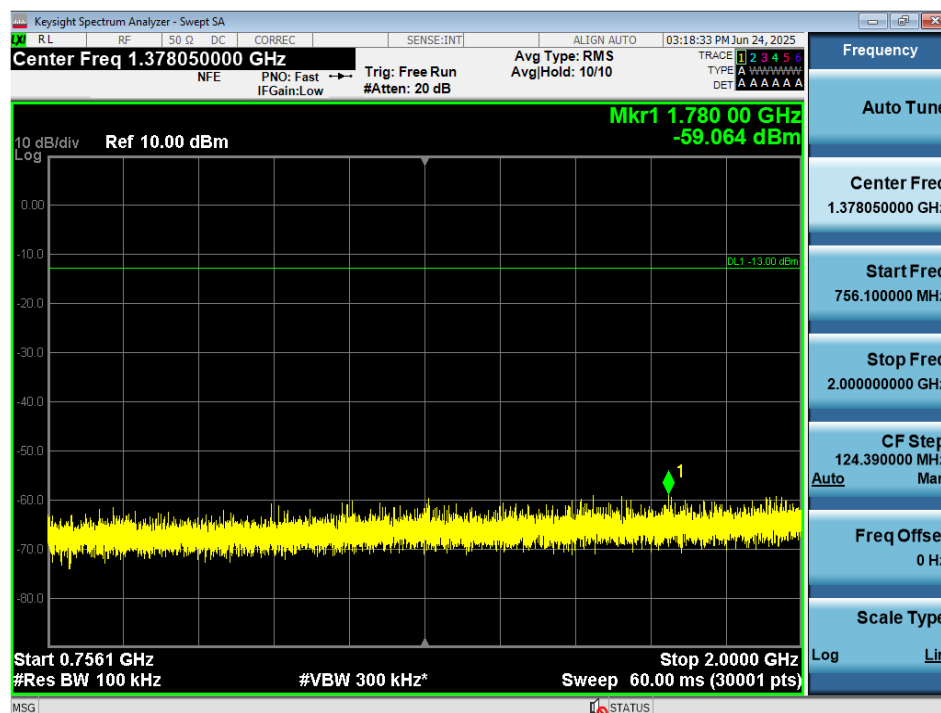
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 150 kHz ~ 30 MHz / ANT 1



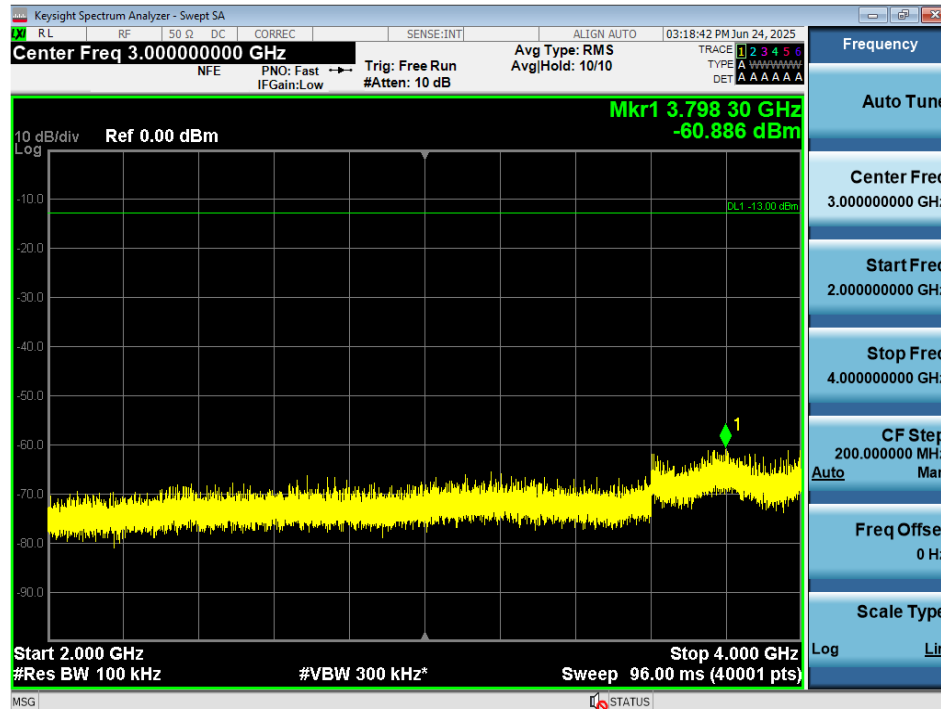
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 30 MHz ~ 745.9 MHz / ANT 1



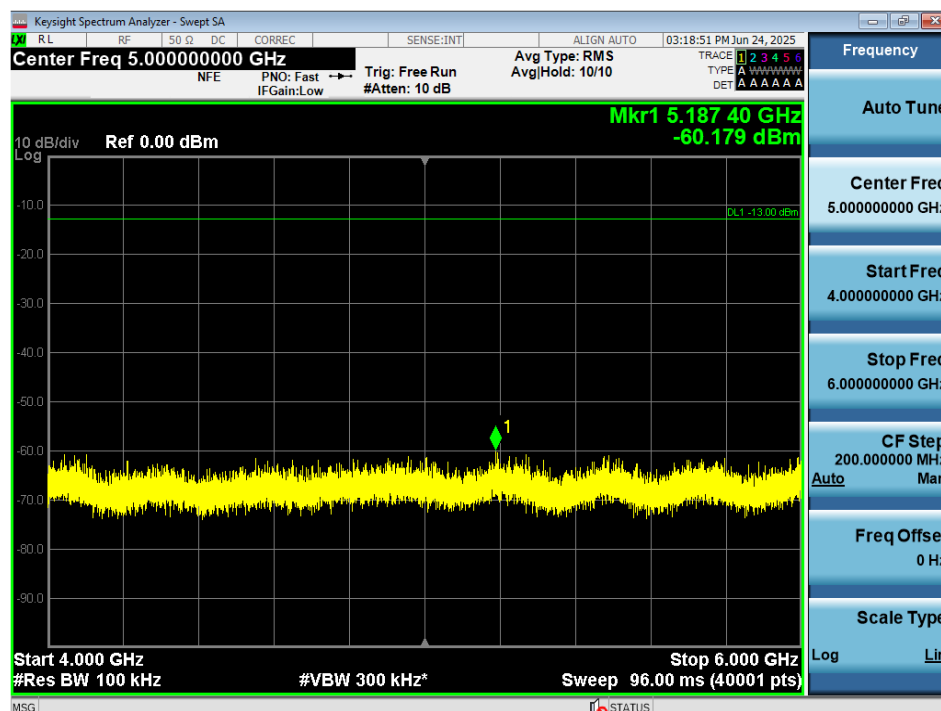
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 756.1 MHz ~ 2 GHz / ANT 1



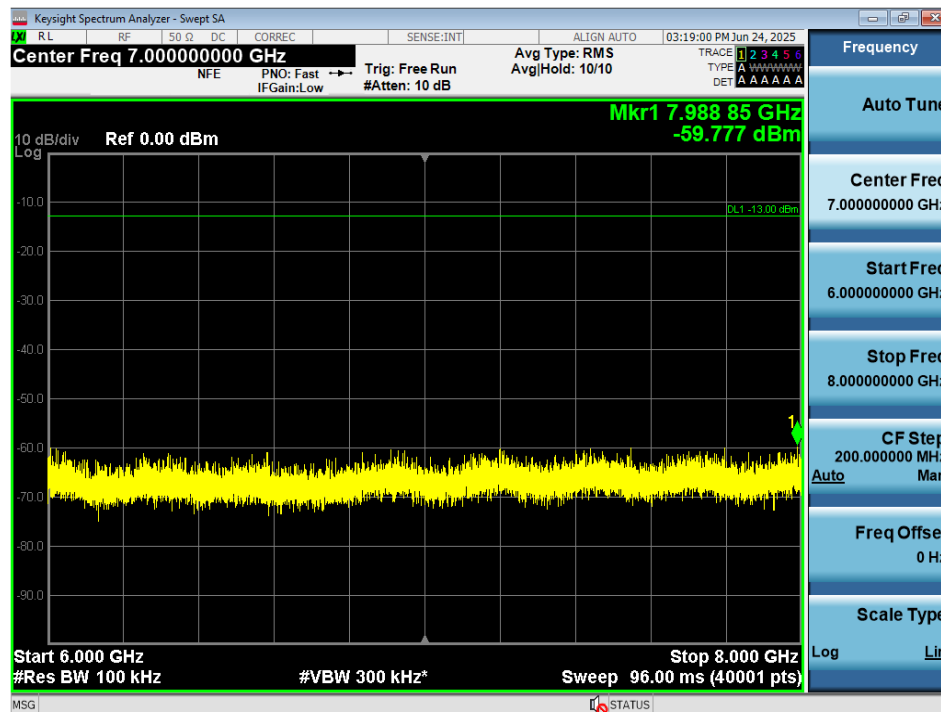
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 2 GHz ~ 4 GHz / ANT 1



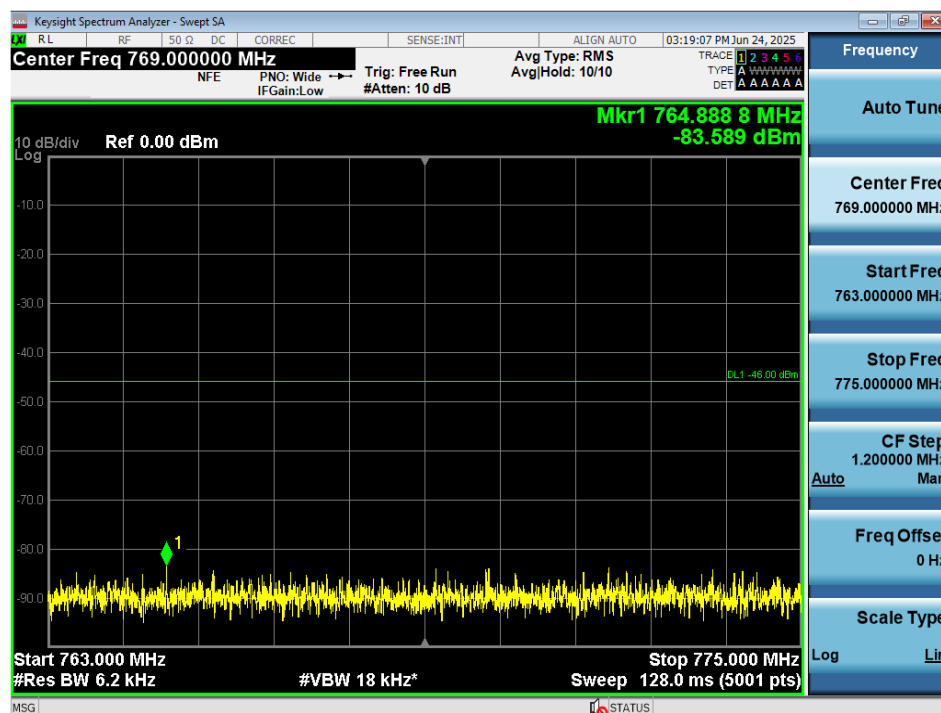
Conducted Spurious Emissions / Upper 700 MHz / Downlink / 4 GHz ~ 6 GHz / ANT 1



Conducted Spurious Emissions / Upper 700 MHz / Downlink / 6 GHz ~ 8 GHz / ANT 1



Conducted Spurious Emissions / Upper 700 MHz / Downlink / 763 MHz ~ 775 MHz / ANT 1



Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω DC CORREC SENSE:INT ALIGN AUTO 03:19:15 PM Jun 24, 2025

Center Freq 799.000000 MHz Avg Type: RMS
NFE PNO: Wide → Trig: Free Run Avg/Hold: 10/10
IFGain:Low #Atten: 10 dB

TRACE 1 2 3 4 5 6
TYPE A
DET A A A A A A

10 dB/div Ref 0.00 dBm

Mkr1 797.836 0 MHz
-83.413 dBm

Log

Start 793.000 MHz
#Res BW 6.2 kHz
#VBW 18 kHz*
Stop 805.000 MHz
Sweep 128.0 ms (5001 pts)

Auto Tune
Center Freq
799.000000 MHz
Start Freq
793.000000 MHz
Stop Freq
805.000000 MHz
CF Step
1.200000 MHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω DC CORREC SENSE:INT ALIGN AUTO 03:19:21 PM Jun 24, 2025

Center Freq 1.584500000 GHz

NFE PNO: Fast IFGain:Low Trig: Free Run #Atten: 10 dB

Avg Type: RMS Avg/Hold: 10/10

TRACE 1 2 3 4 5 6
TYPE A A A A A A A
DET A A A A A A A

10 dB/div Ref 0.00 dBm

Log

Mkr1 1.584 500 GHz -62.131 dBm

DL1 -40.00 dBm

Start 1.55900 GHz Stop 1.61000 GHz

#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 1.584500000 GHz

Start Freq 1.559000000 GHz

Stop Freq 1.610000000 GHz

CF Step 5.100000 MHz

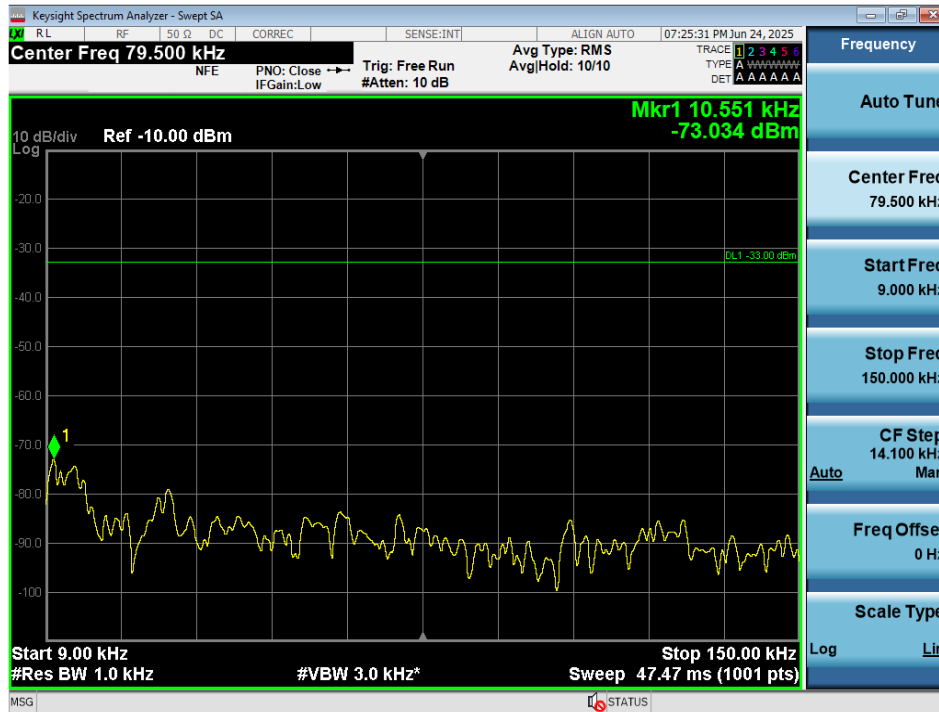
Auto Man

Freq Offset 0 Hz

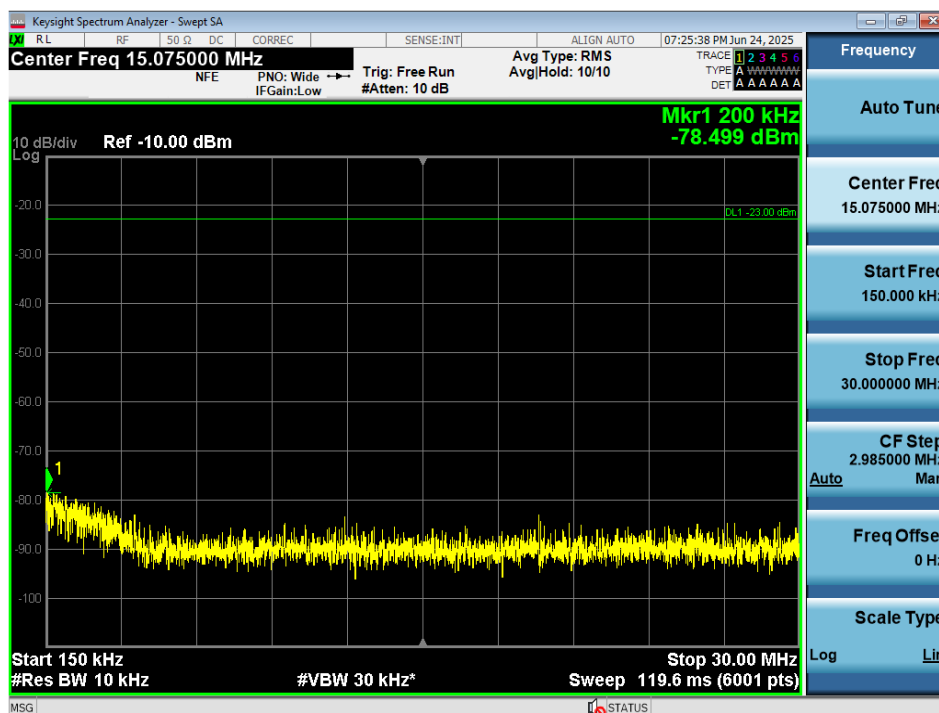
Scale Type

Log Lin

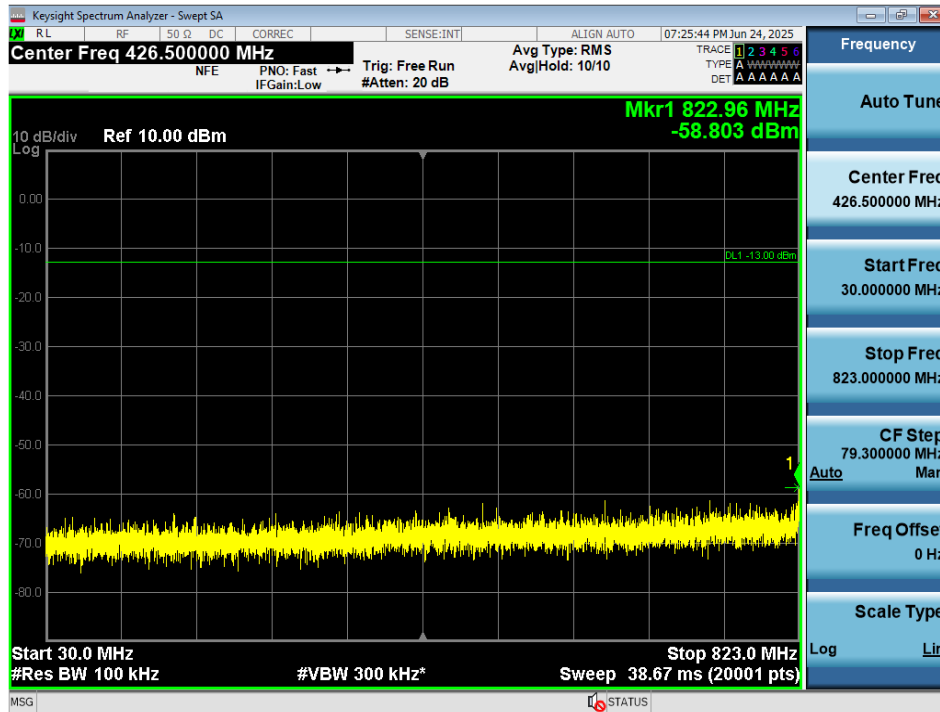
Conducted Spurious Emissions / Cellular / Uplink / 9 kHz ~ 150 kHz / ANT 1



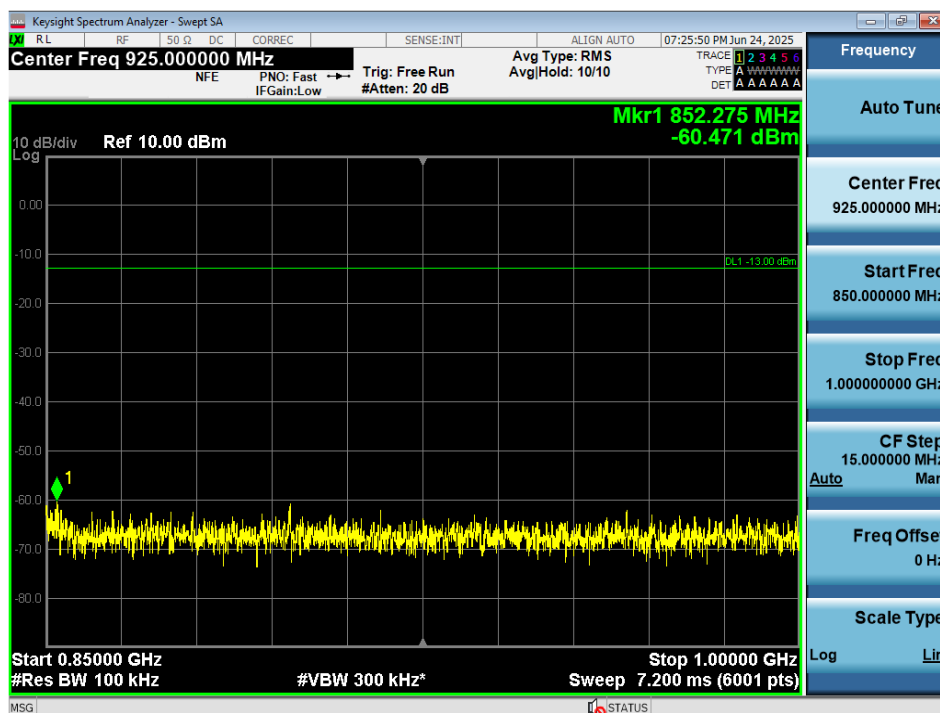
Conducted Spurious Emissions / Cellular / Uplink / 150 kHz ~ 30 MHz / ANT 1



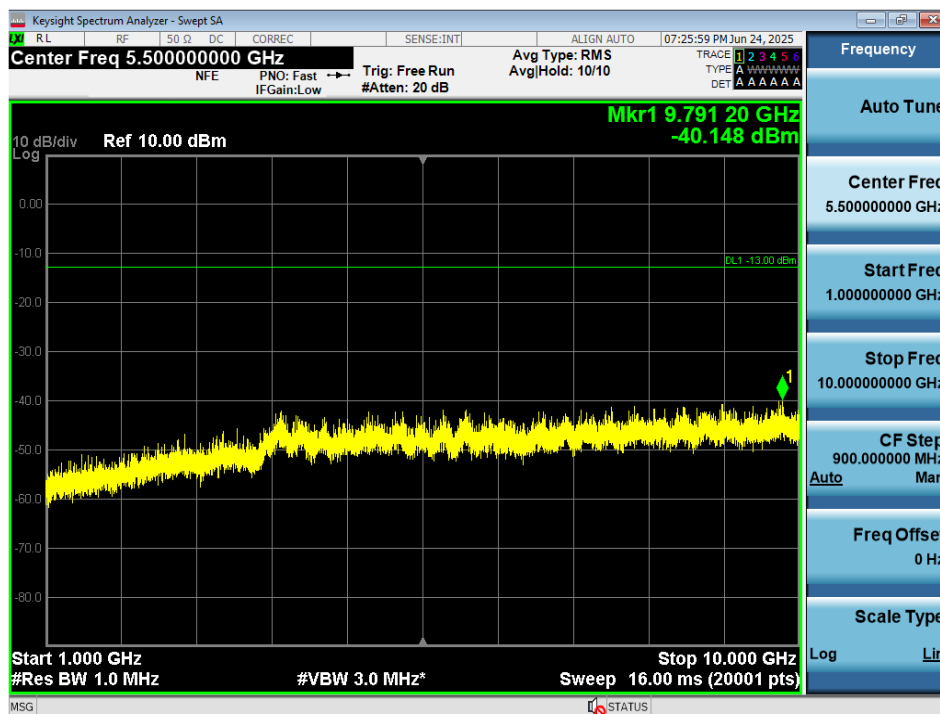
Conducted Spurious Emissions / Cellular / Uplink / 30 MHz ~ 823 MHz / ANT 1



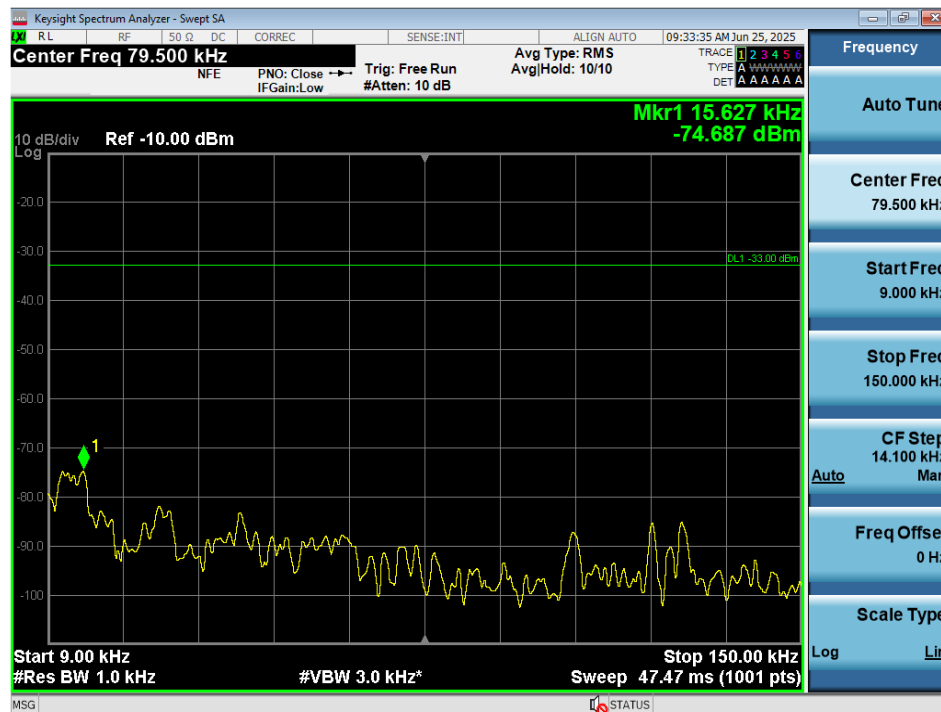
Conducted Spurious Emissions / Cellular / Uplink / 850 MHz ~ 1 GHz / ANT 1



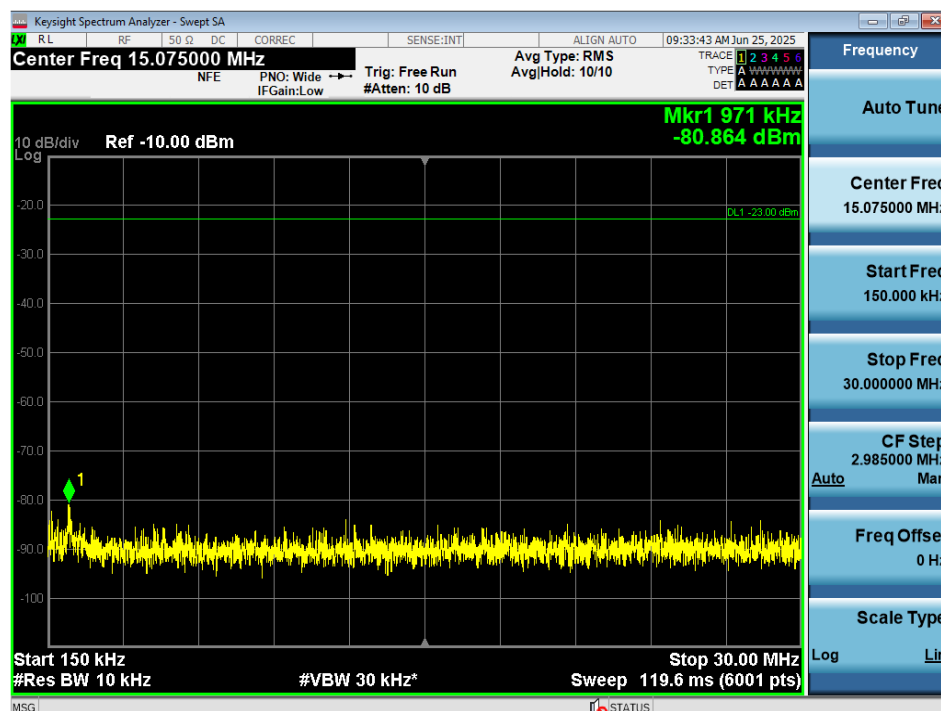
Conducted Spurious Emissions / Cellular / Uplink / 1 GHz ~ 10 GHz / ANT 1



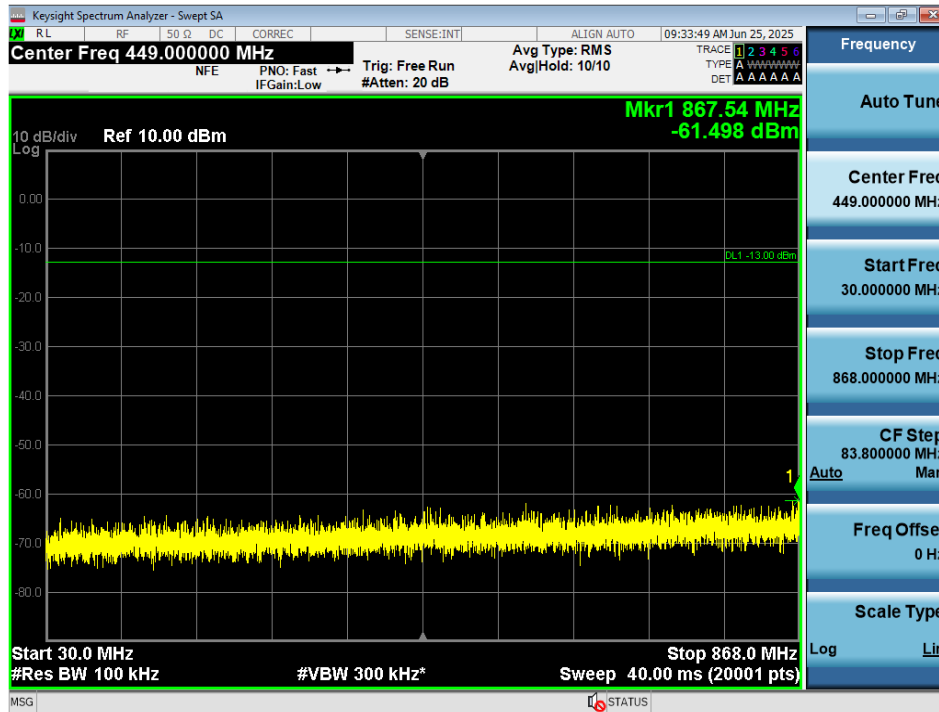
Conducted Spurious Emissions / Cellular / Downlink / 9 kHz ~ 150 kHz / ANT 1



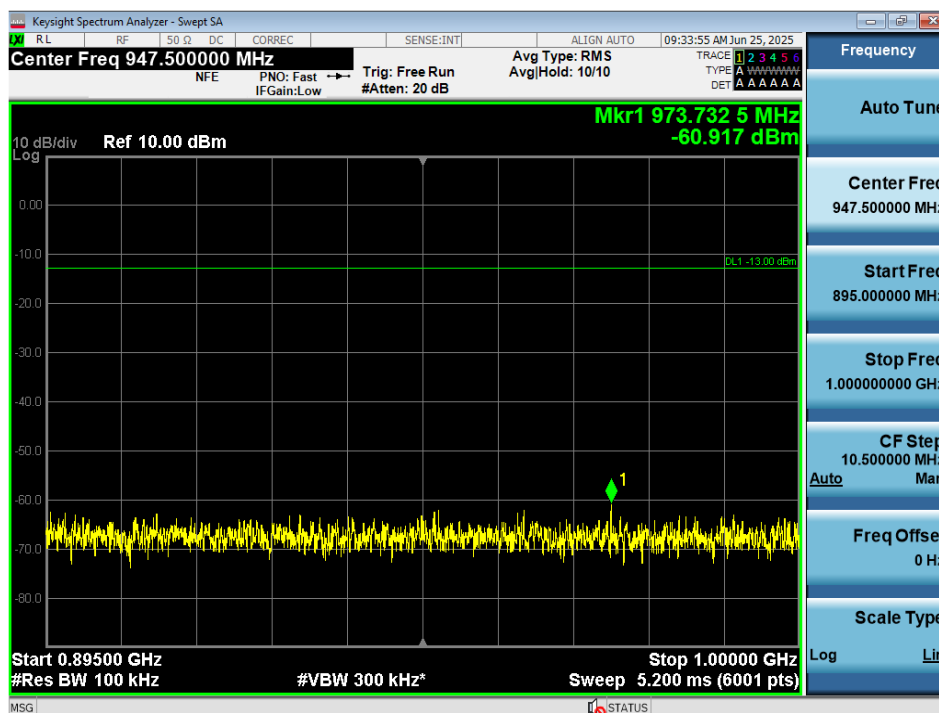
Conducted Spurious Emissions / Cellular / Downlink / 150 kHz ~ 30 MHz / ANT 1



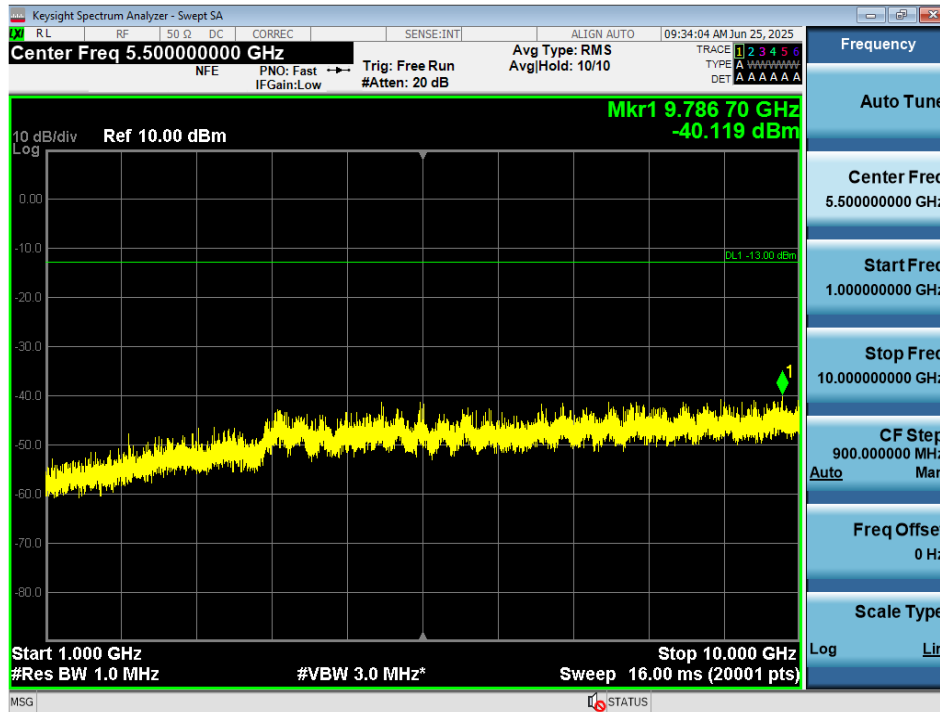
Conducted Spurious Emissions / Cellular / Downlink / 30 MHz ~ 868 MHz / ANT 1



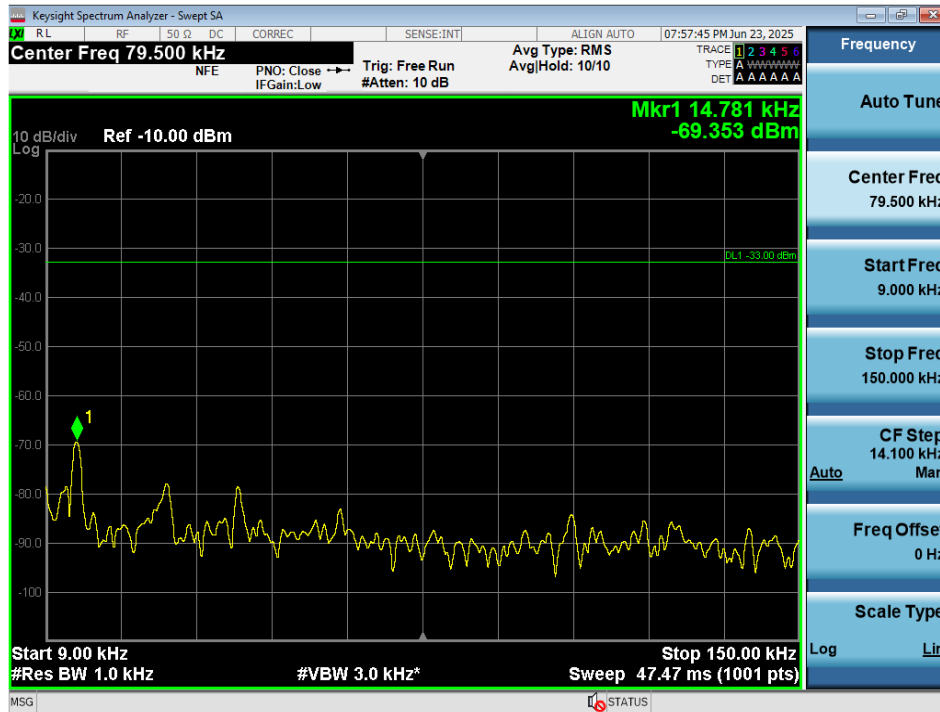
Conducted Spurious Emissions / Cellular / Downlink / 895 MHz ~ 1 GHz / ANT 1



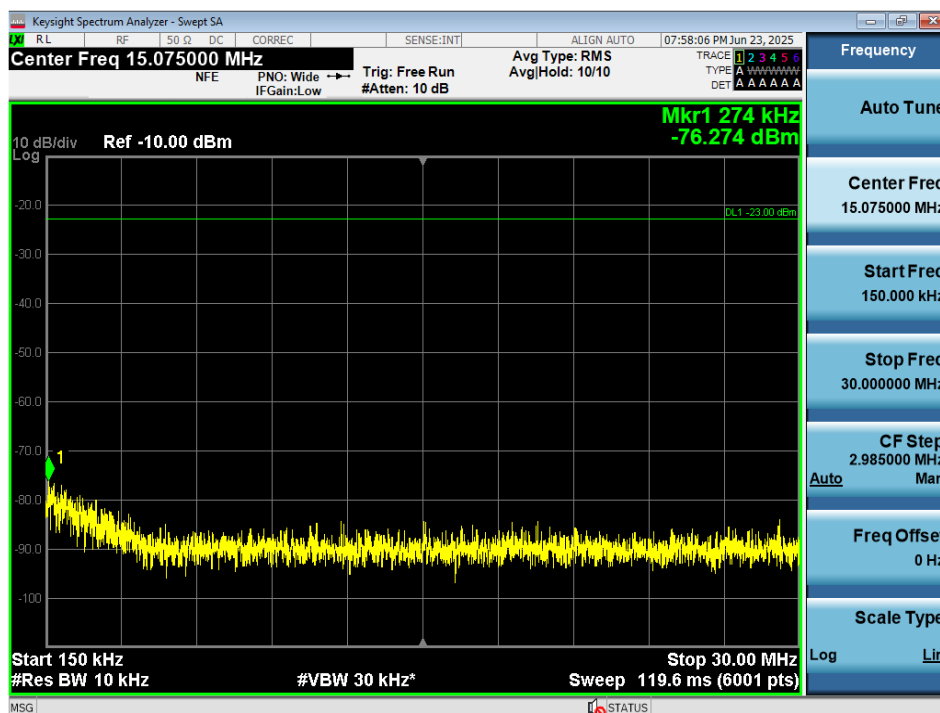
Conducted Spurious Emissions / Cellular / Downlink / 1 GHz ~ 10 GHz / ANT 1



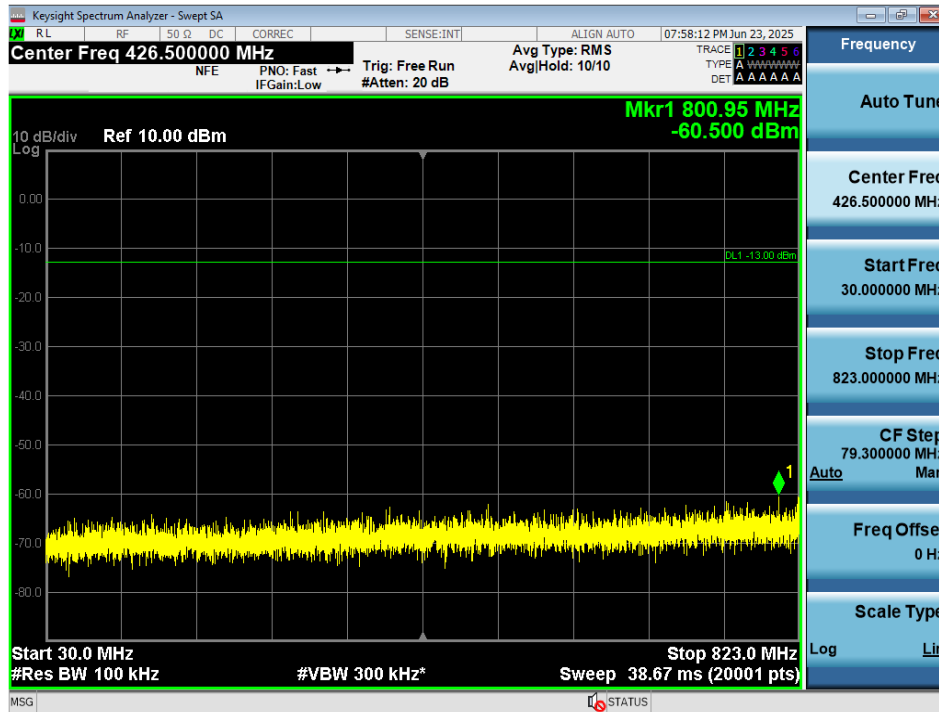
Conducted Spurious Emissions / Cellular / Uplink / 9 kHz ~ 150 kHz / ANT 2



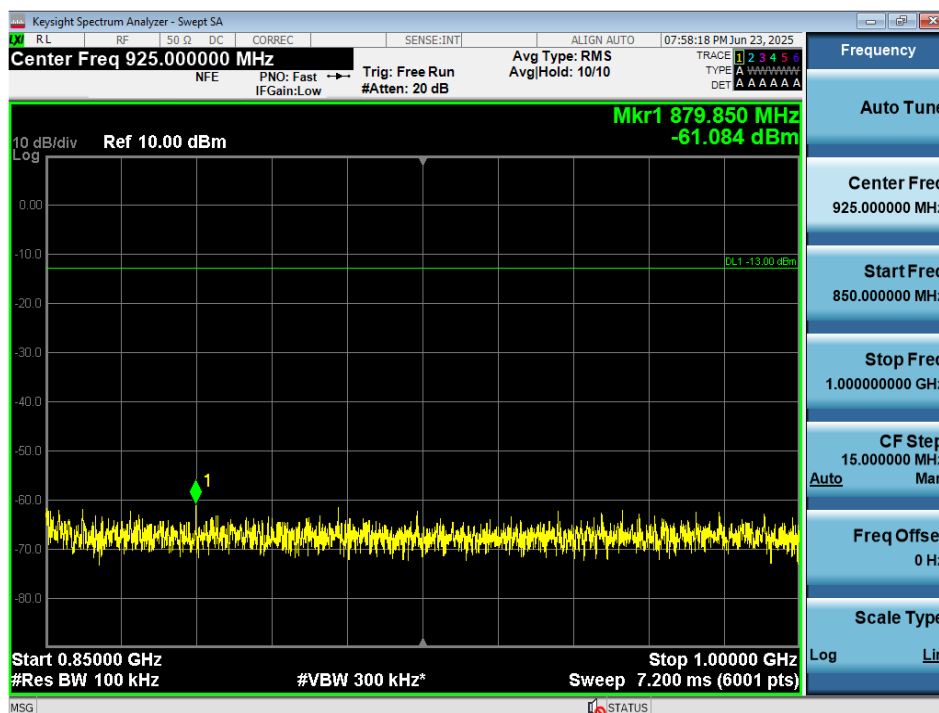
Conducted Spurious Emissions / Cellular / Uplink / 150 kHz ~ 30 MHz / ANT 2



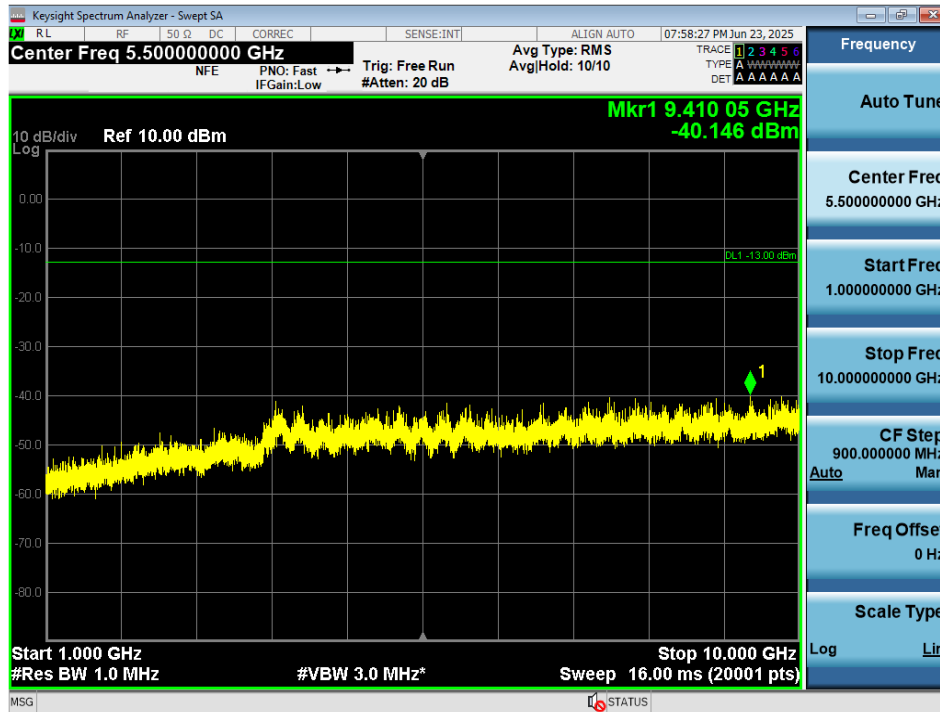
Conducted Spurious Emissions / Cellular / Uplink / 30 MHz ~ 823 MHz / ANT 2



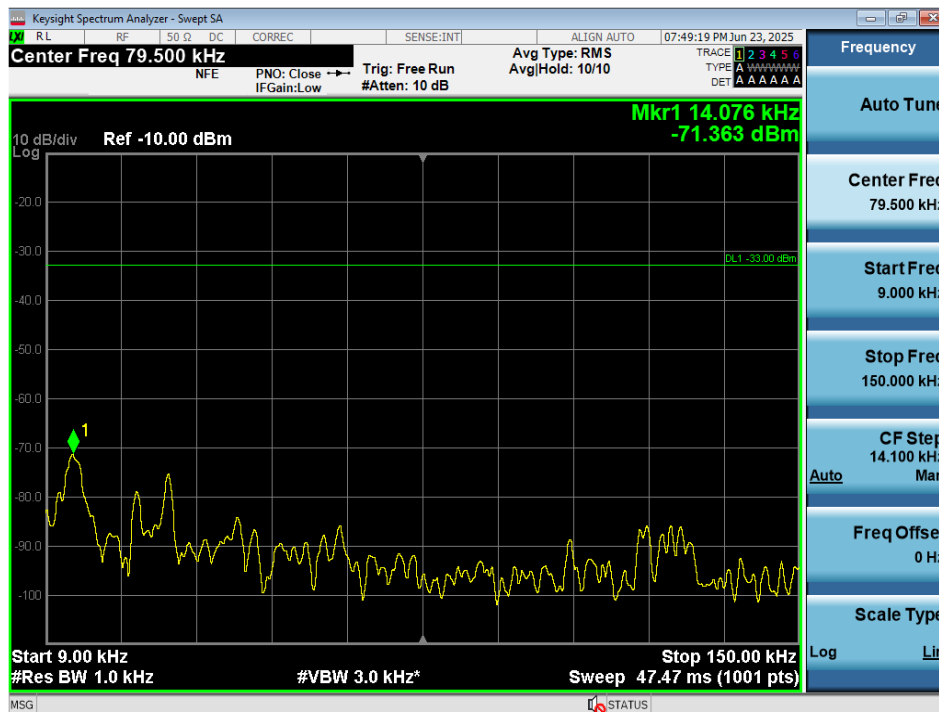
Conducted Spurious Emissions / Cellular / Uplink / 850 MHz ~ 1 GHz / ANT 2



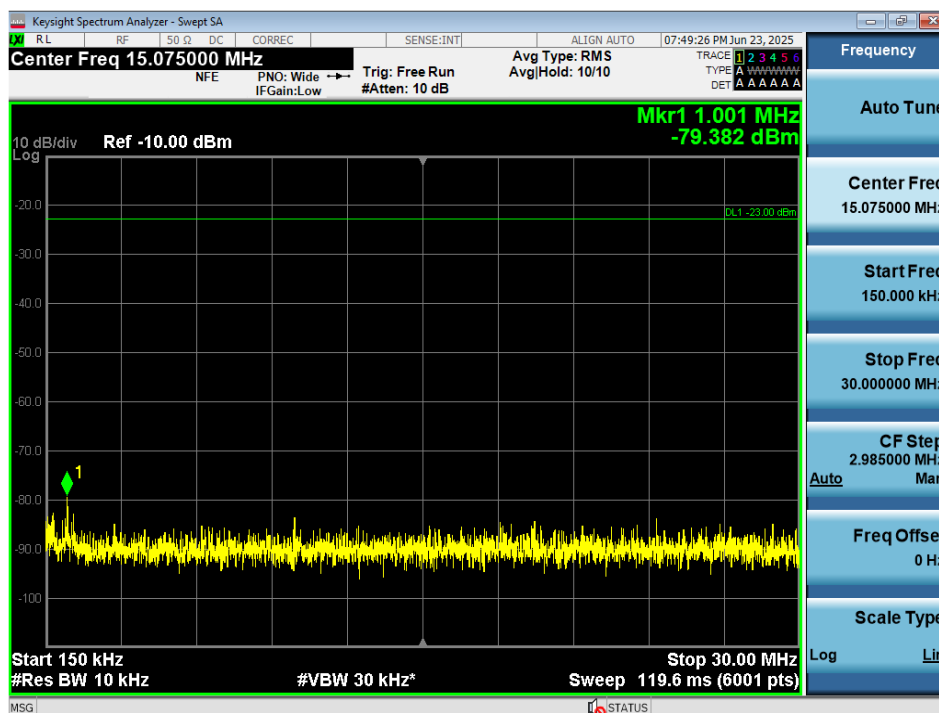
Conducted Spurious Emissions / Cellular / Uplink / 1 GHz ~ 10 GHz / ANT 2



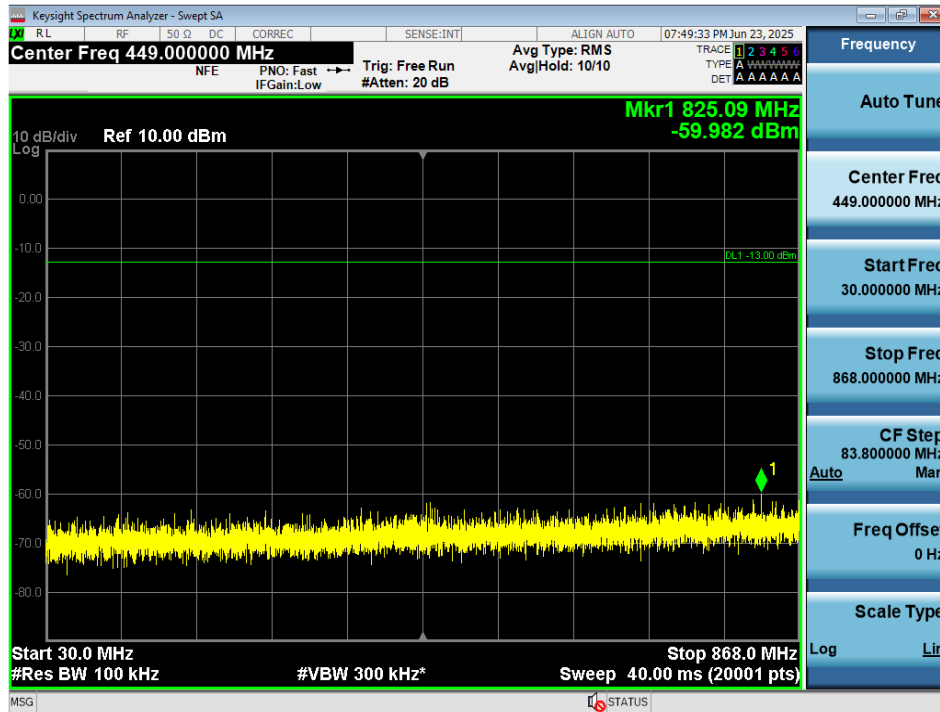
Conducted Spurious Emissions / Cellular / Downlink / 9 kHz ~ 150 kHz / ANT 2



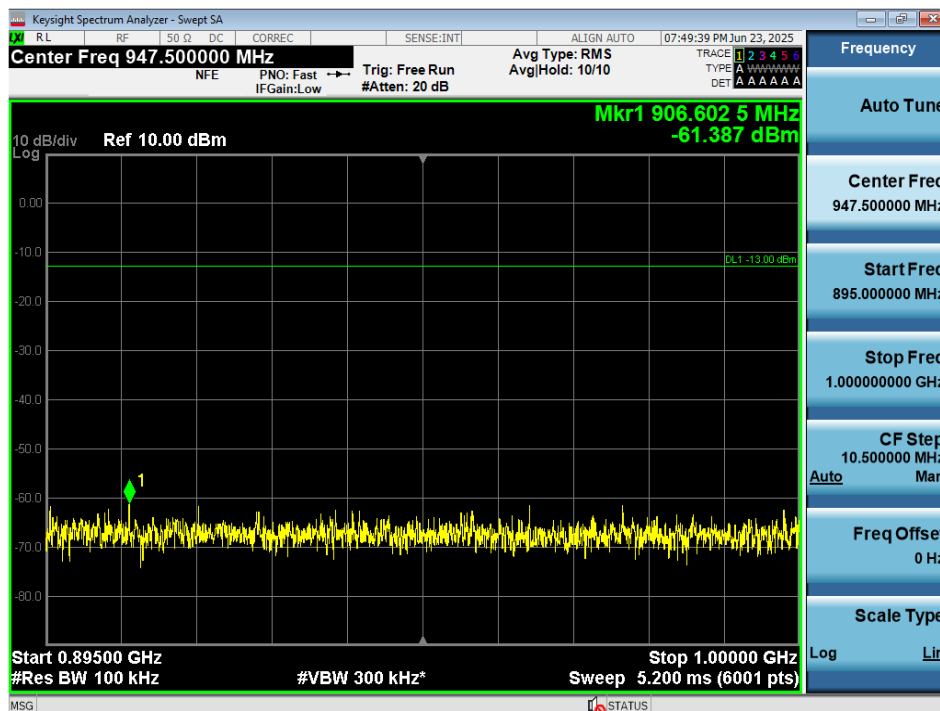
Conducted Spurious Emissions / Cellular / Downlink / 150 kHz ~ 30 MHz / ANT 2



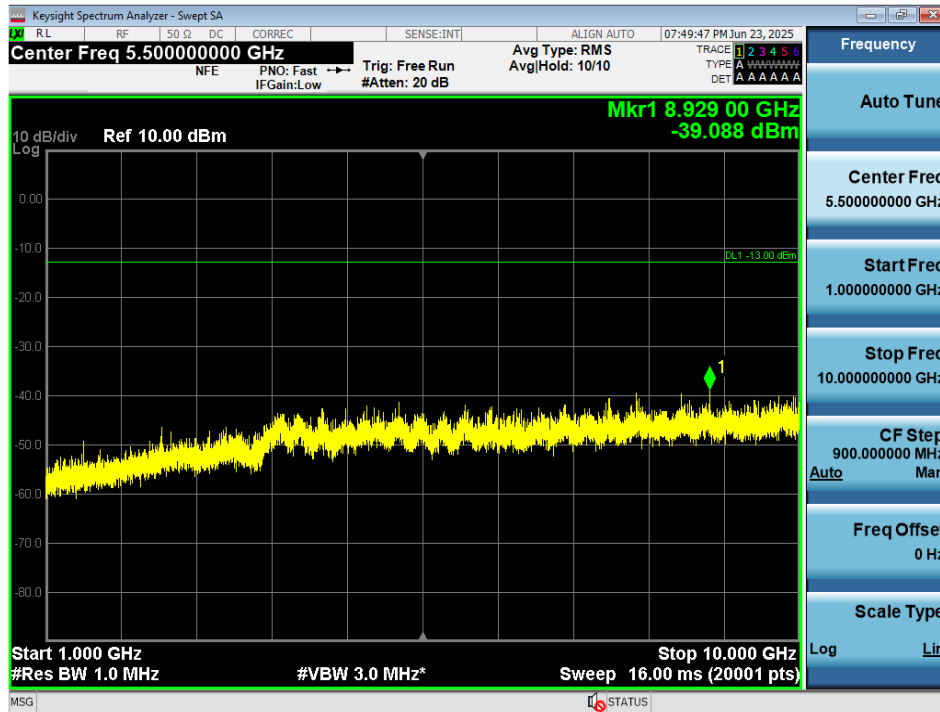
Conducted Spurious Emissions / Cellular / Downlink / 30 MHz ~ 868 MHz / ANT 2



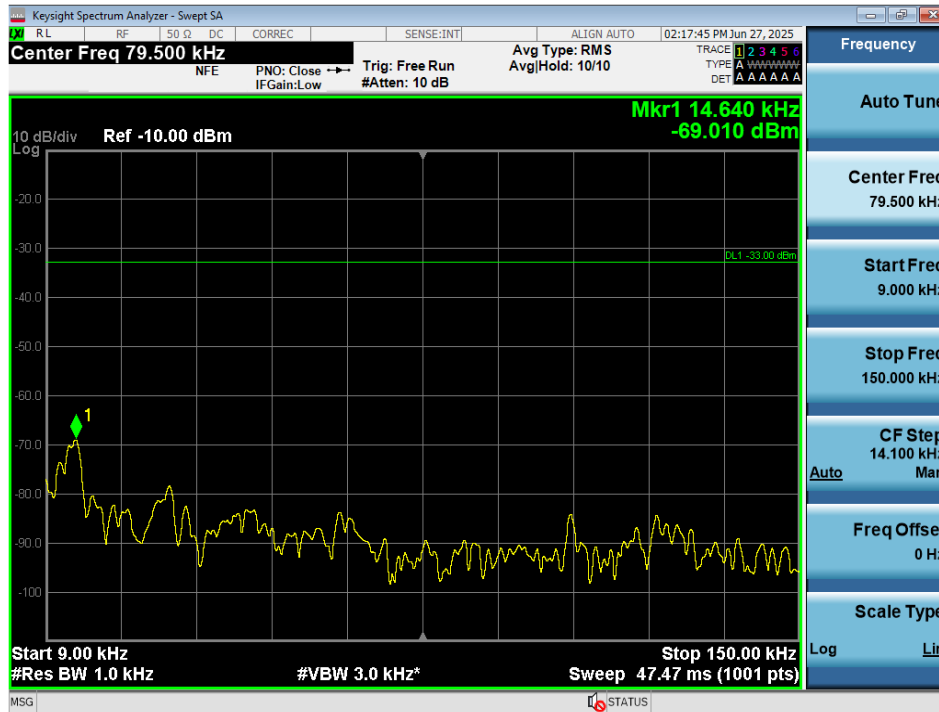
Conducted Spurious Emissions / Cellular / Downlink / 895 MHz ~ 1 GHz / ANT 2



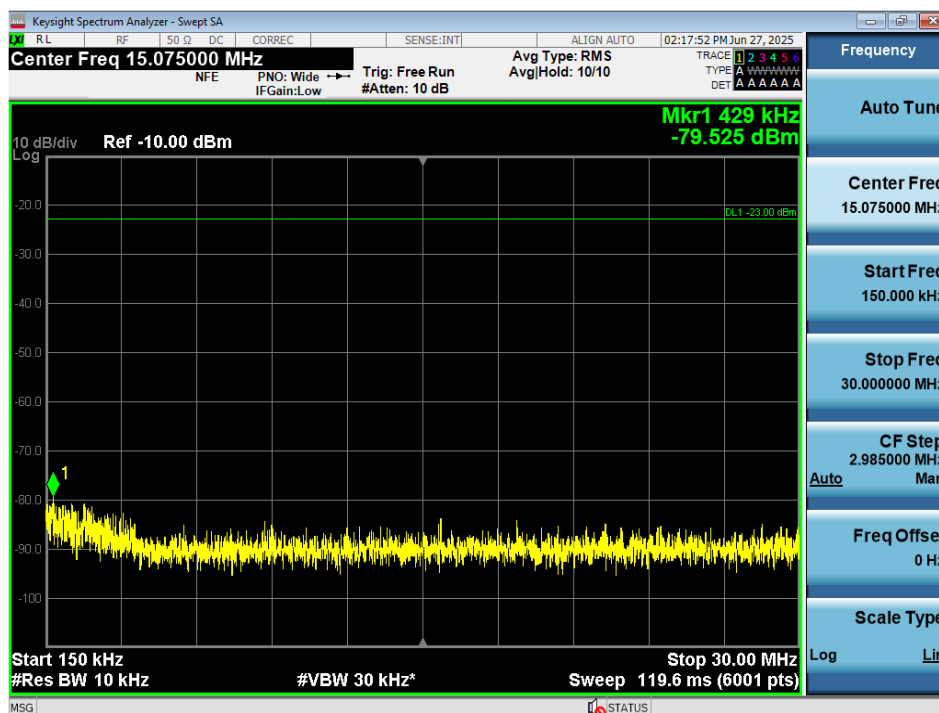
Conducted Spurious Emissions / Cellular / Downlink / 1 GHz ~ 10 GHz / ANT 2



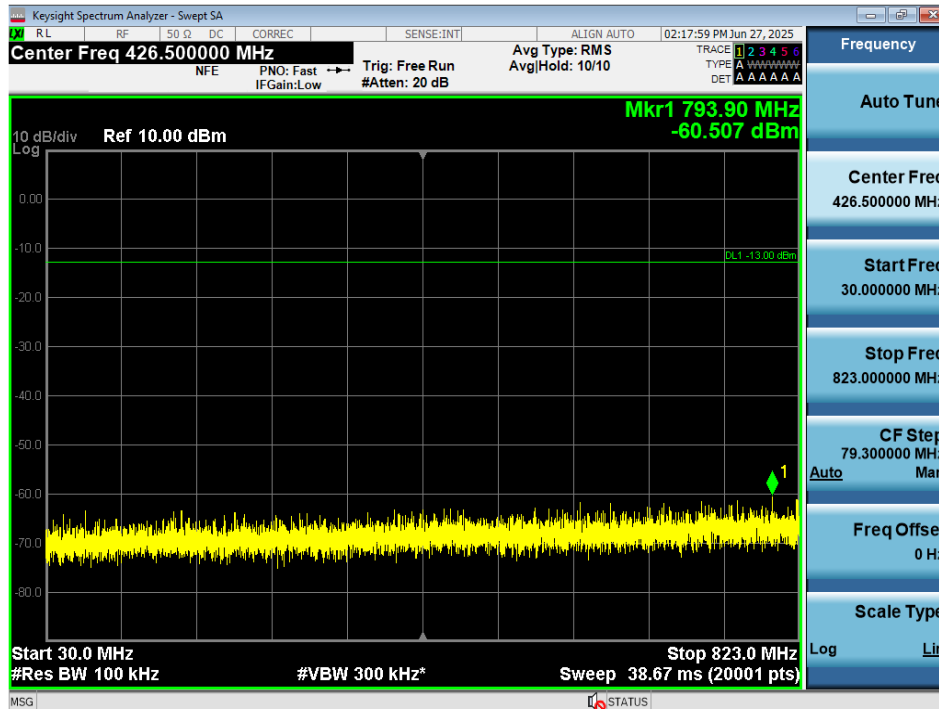
Conducted Spurious Emissions / Cellular / Uplink / 9 kHz ~ 150 kHz / ANT 3



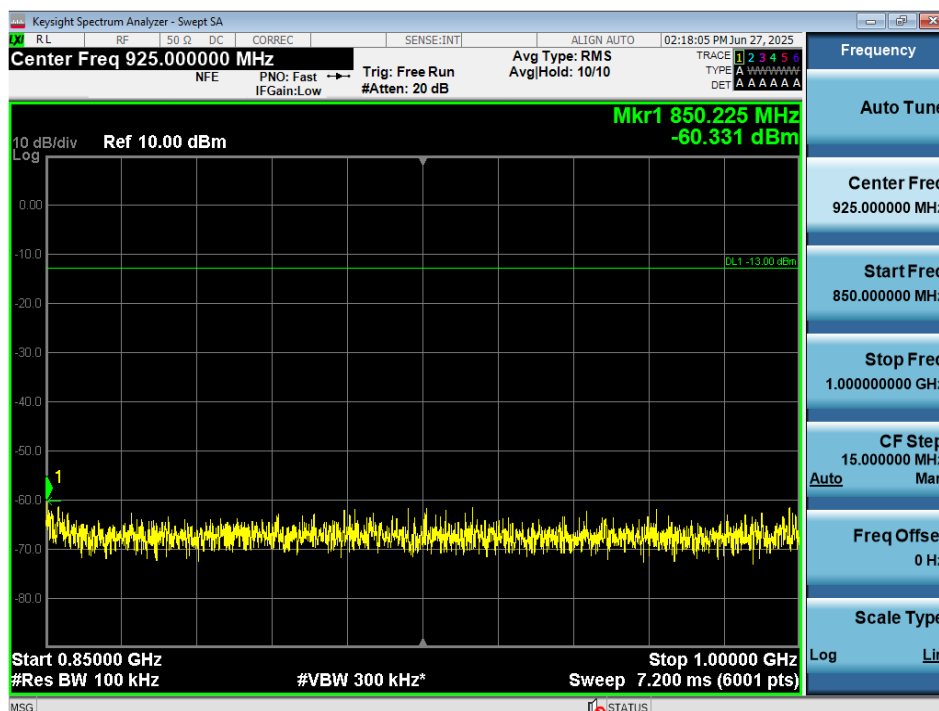
Conducted Spurious Emissions / Cellular / Uplink / 150 kHz ~ 30 MHz / ANT 3



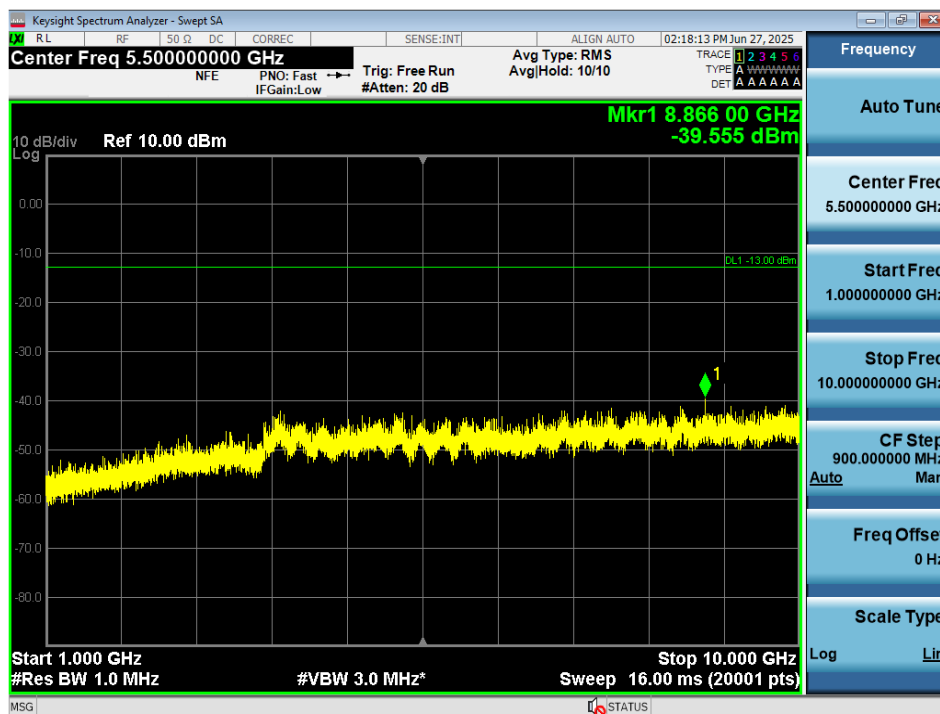
Conducted Spurious Emissions / Cellular / Uplink / 30 MHz ~ 823 MHz / ANT 3



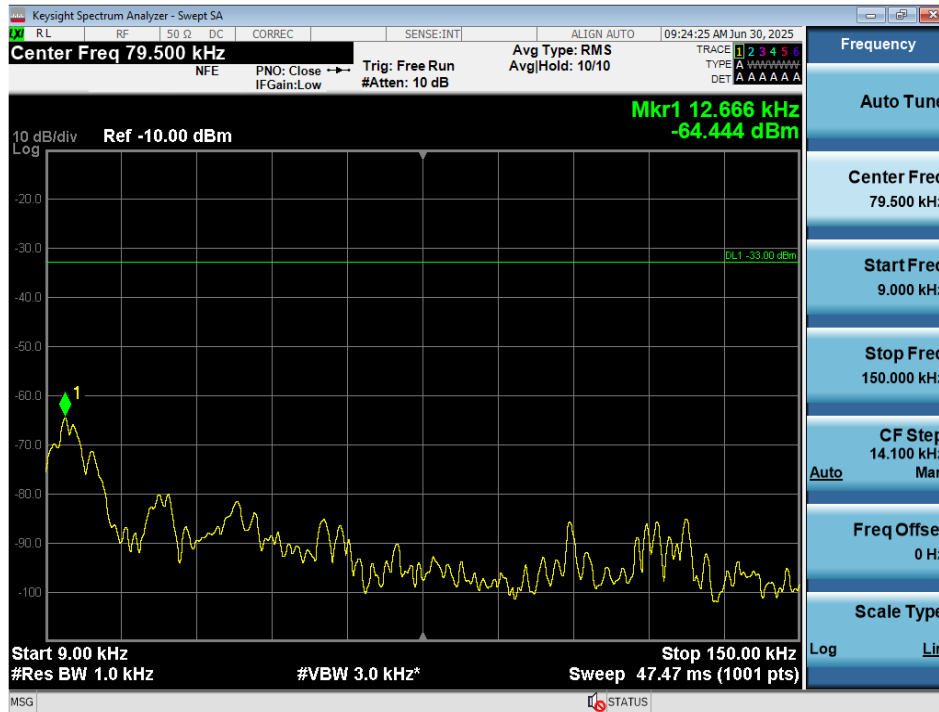
Conducted Spurious Emissions / Cellular / Uplink / 850 MHz ~ 1 GHz / ANT 3



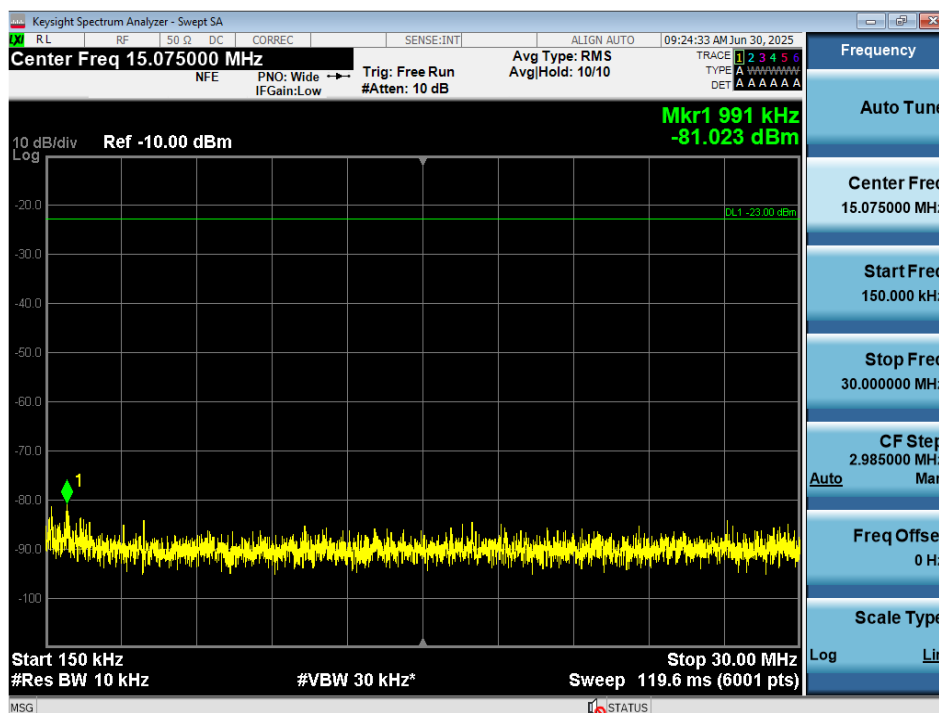
Conducted Spurious Emissions / Cellular / Uplink / 1 GHz ~ 10 GHz / ANT 3



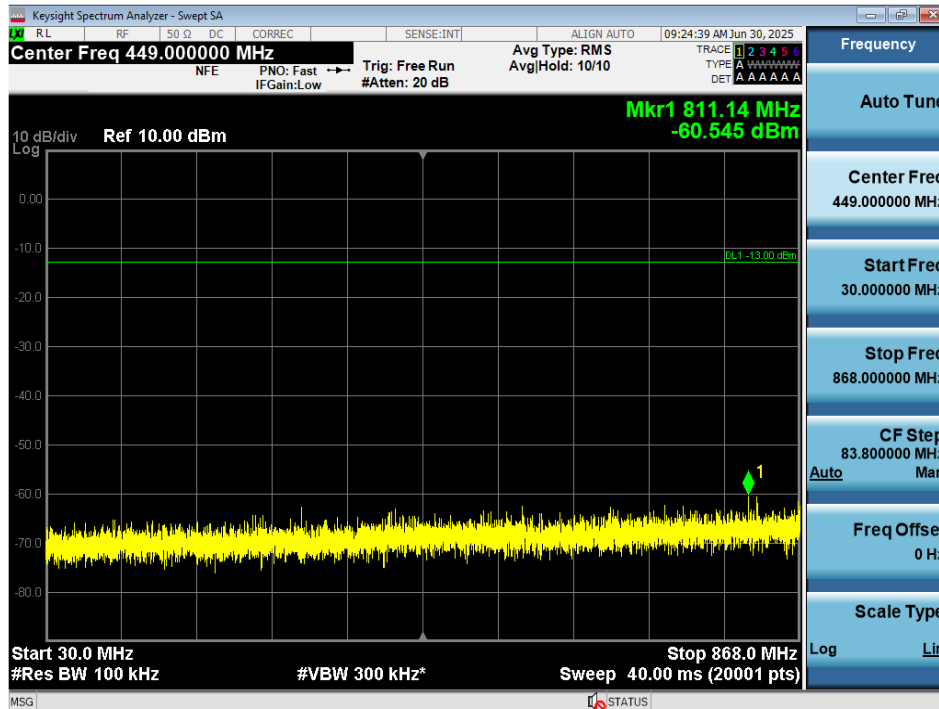
Conducted Spurious Emissions / Cellular / Downlink / 9 kHz ~ 150 kHz / ANT 3



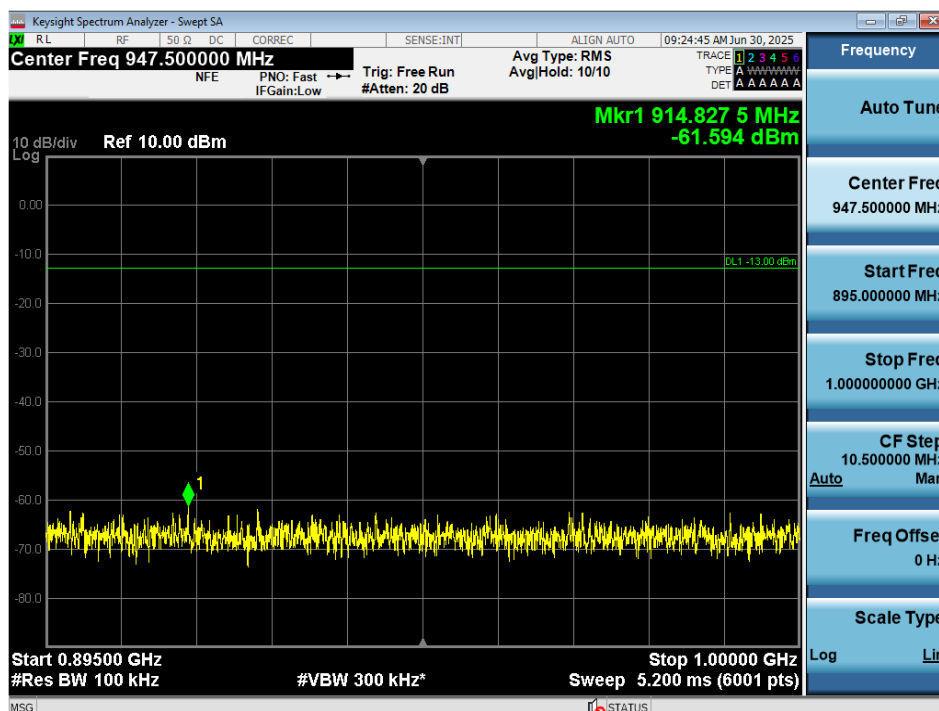
Conducted Spurious Emissions / Cellular / Downlink / 150 kHz ~ 30 MHz / ANT 3



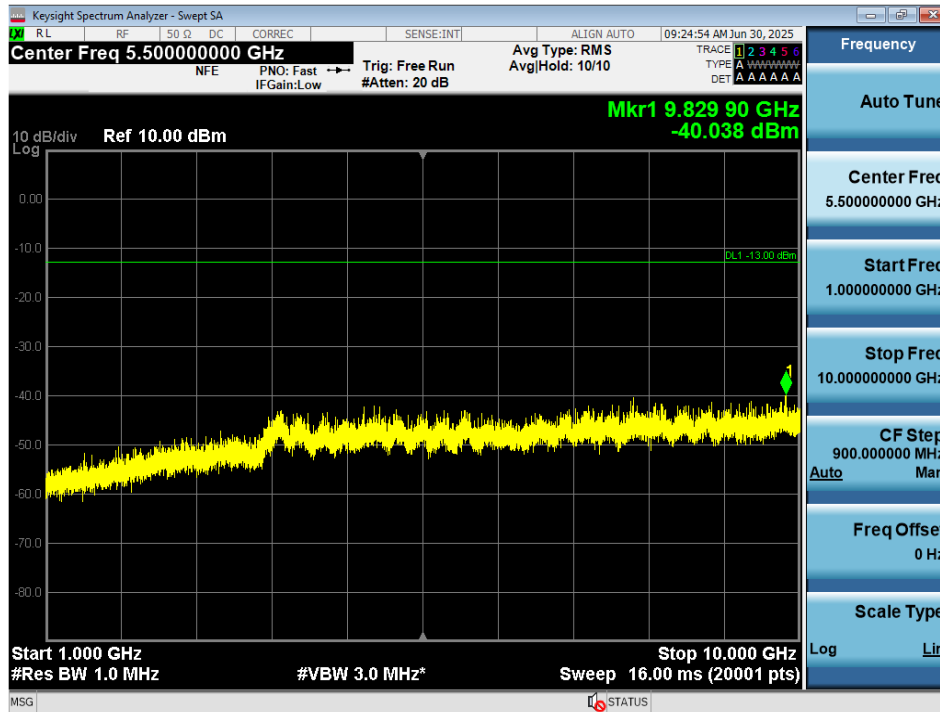
Conducted Spurious Emissions / Cellular / Downlink / 30 MHz ~ 868 MHz / ANT 3



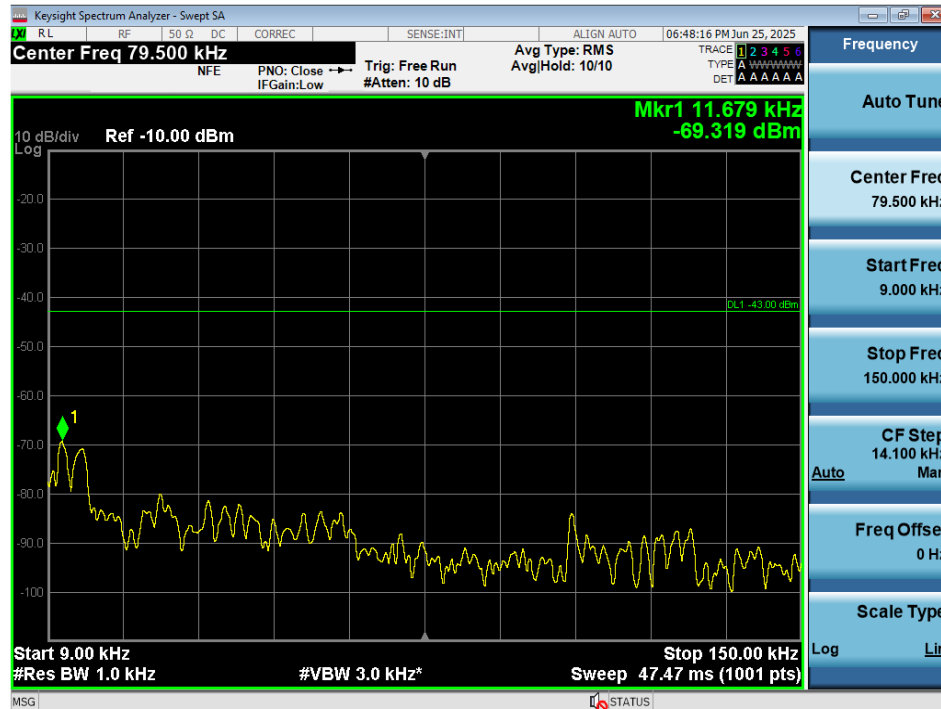
Conducted Spurious Emissions / Cellular / Downlink / 895 MHz ~ 1 GHz / ANT 3



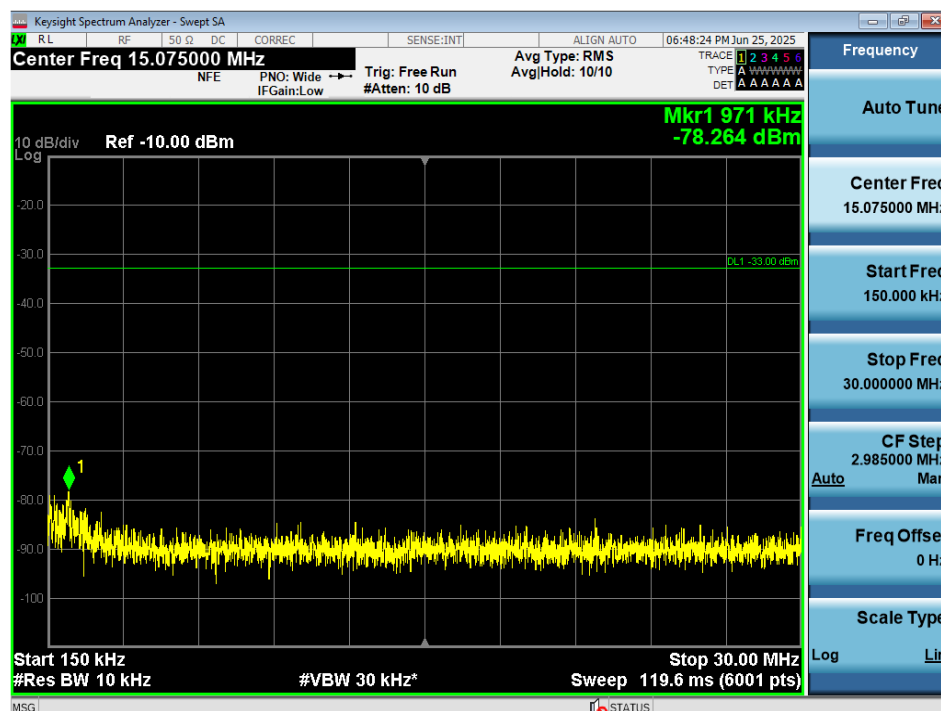
Conducted Spurious Emissions / Cellular / Downlink / 1 GHz ~ 10 GHz / ANT 3



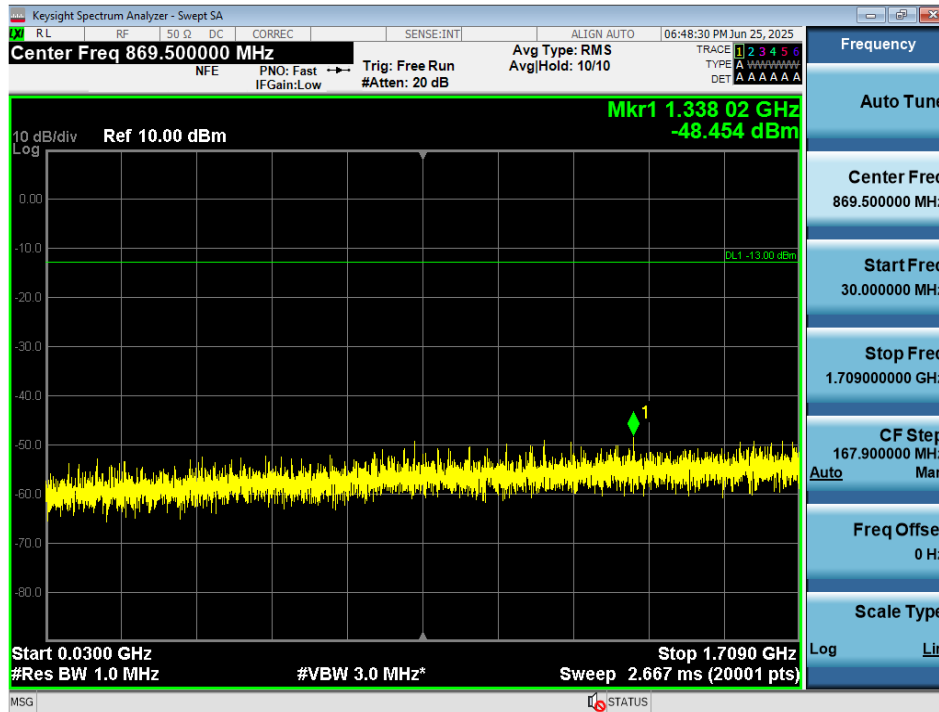
Conducted Spurious Emissions / AWS-1 / Uplink / 9 kHz ~ 150 kHz / ANT 1



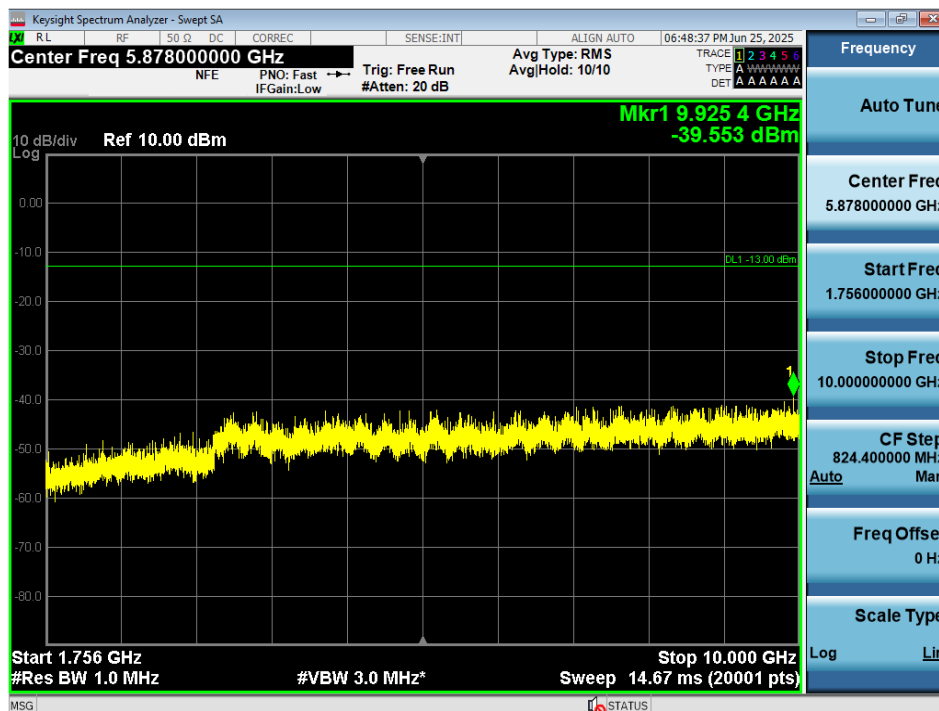
Conducted Spurious Emissions / AWS-1 / Uplink / 150 kHz ~ 30 MHz / ANT 1



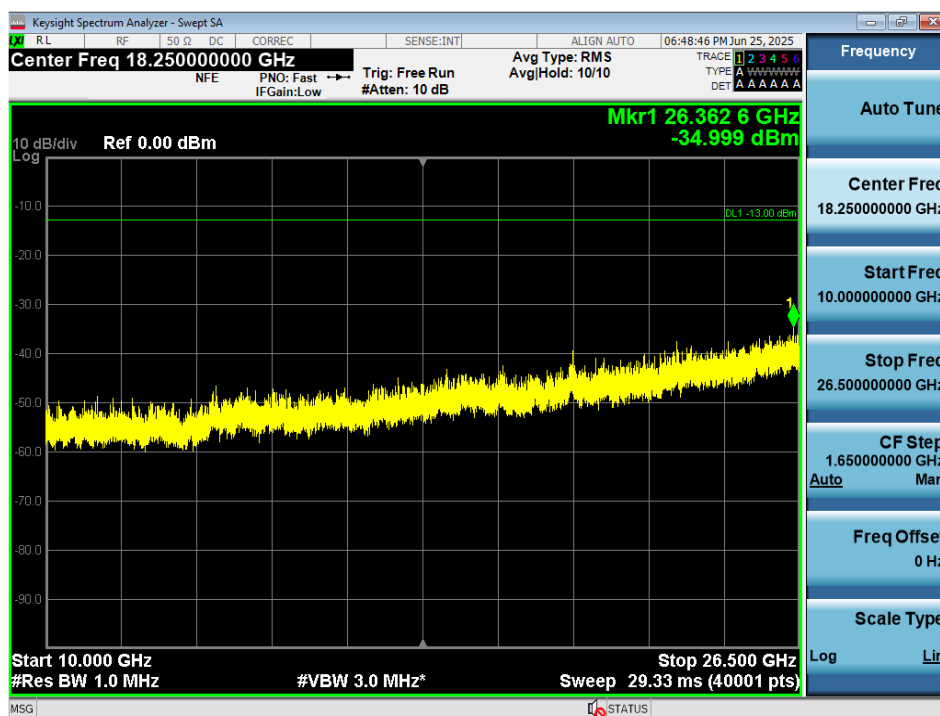
Conducted Spurious Emissions / AWS-1 / Uplink / 30 MHz ~ 1.709 GHz / ANT 1



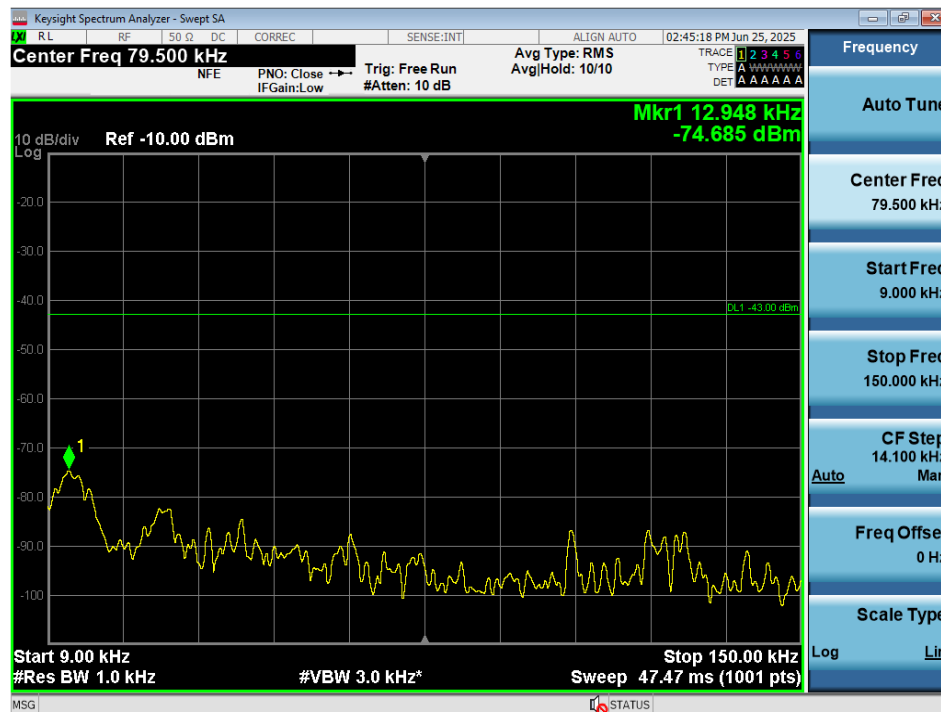
Conducted Spurious Emissions / AWS-1 / Uplink / 1.756 GHz ~ 10 GHz / ANT 1



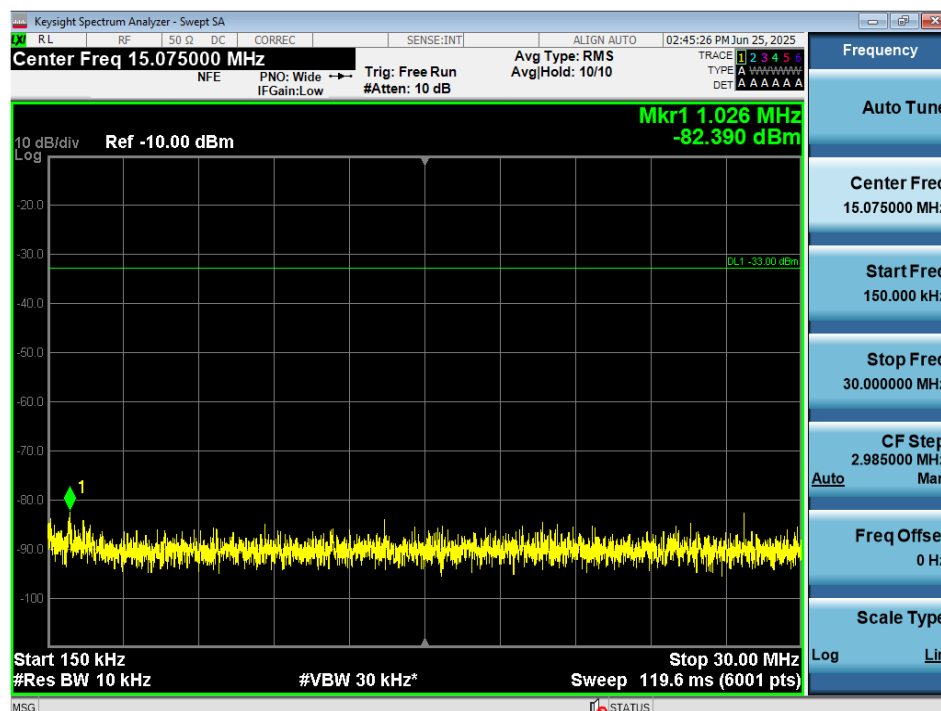
Conducted Spurious Emissions / AWS-1 / Uplink / 10 GHz ~ 26.5 GHz / ANT 1



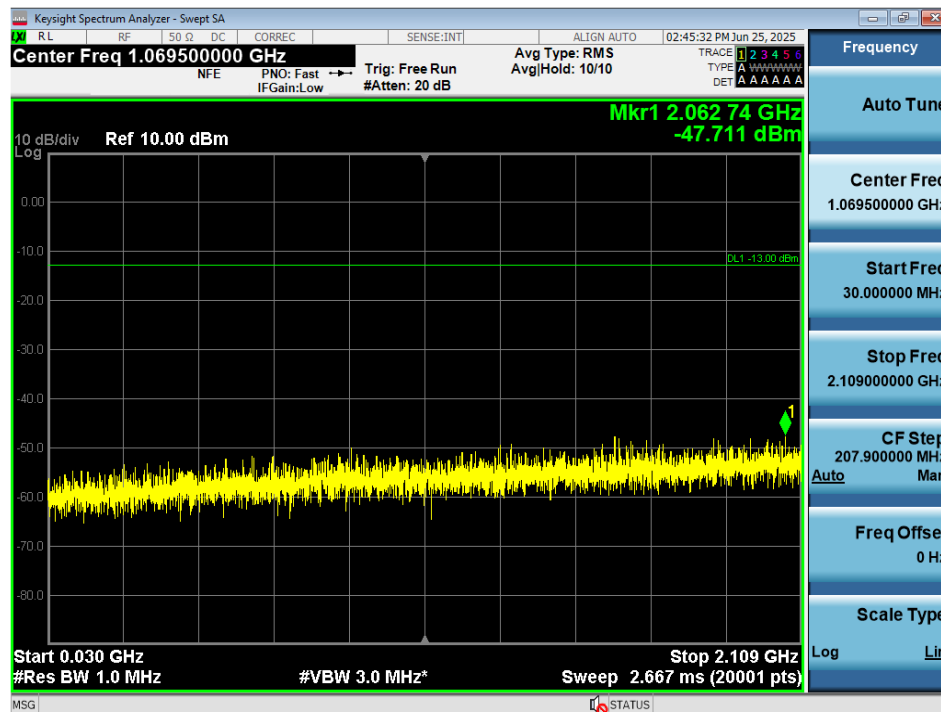
Conducted Spurious Emissions / AWS-1 / Downlink / 9 kHz ~ 150 kHz / ANT 1



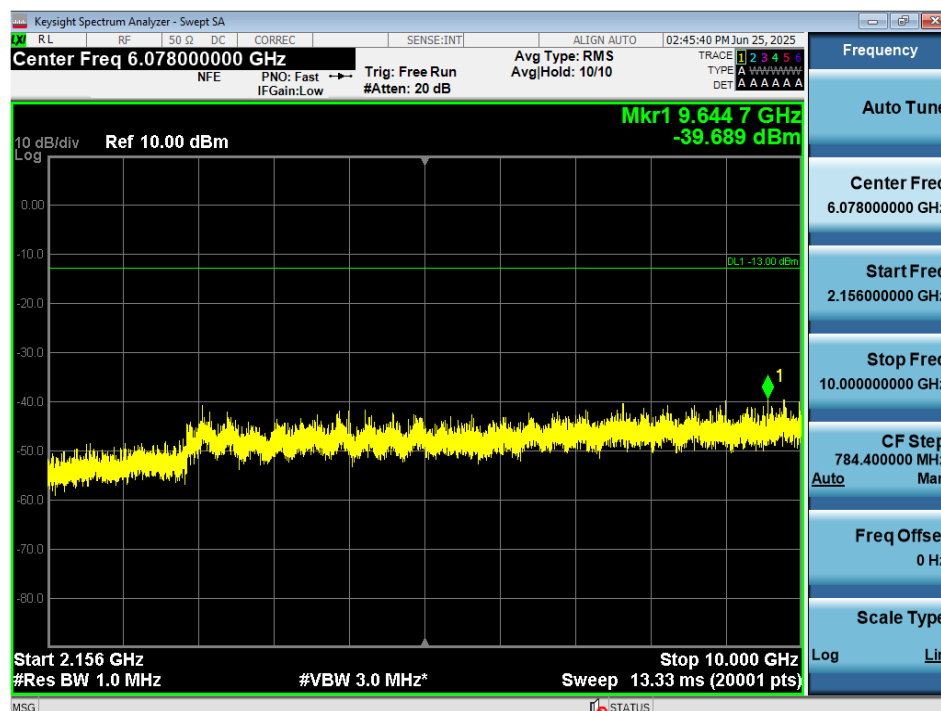
Conducted Spurious Emissions / AWS-1 / Downlink / 150 kHz ~ 30 MHz / ANT 1



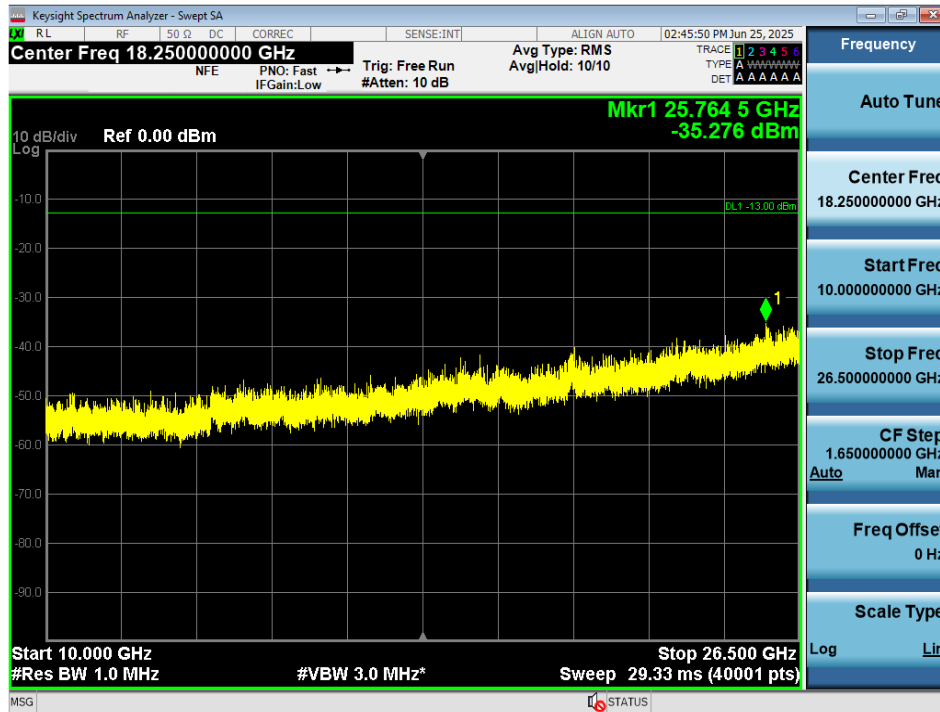
Conducted Spurious Emissions / AWS-1 / Downlink / 30 MHz ~ 2.109 GHz / ANT 1



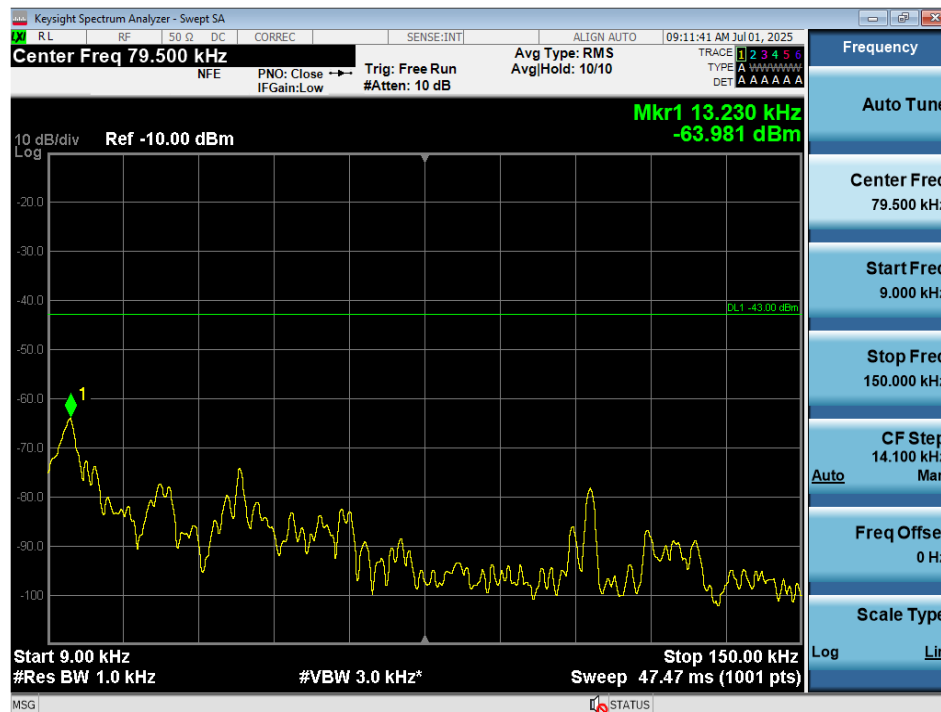
Conducted Spurious Emissions / AWS-1 / Downlink / 2.156 GHz ~ 10 GHz / ANT 1



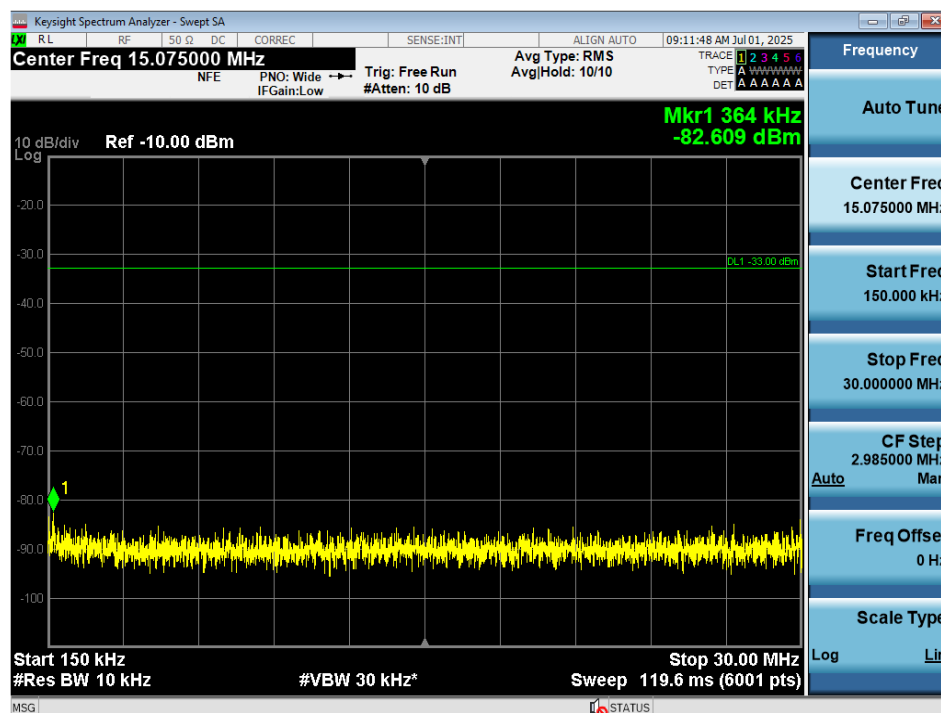
Conducted Spurious Emissions / AWS-1 / Downlink / 10 GHz ~ 26.5 GHz / ANT 1



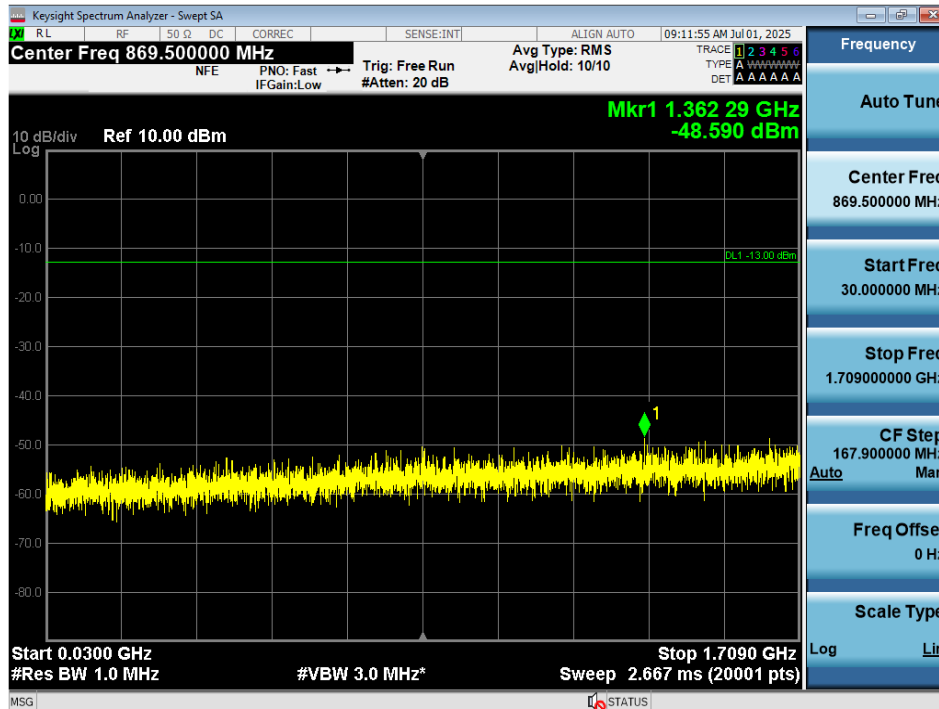
Conducted Spurious Emissions / AWS-1 / Uplink / 9 kHz ~ 150 kHz / ANT 2



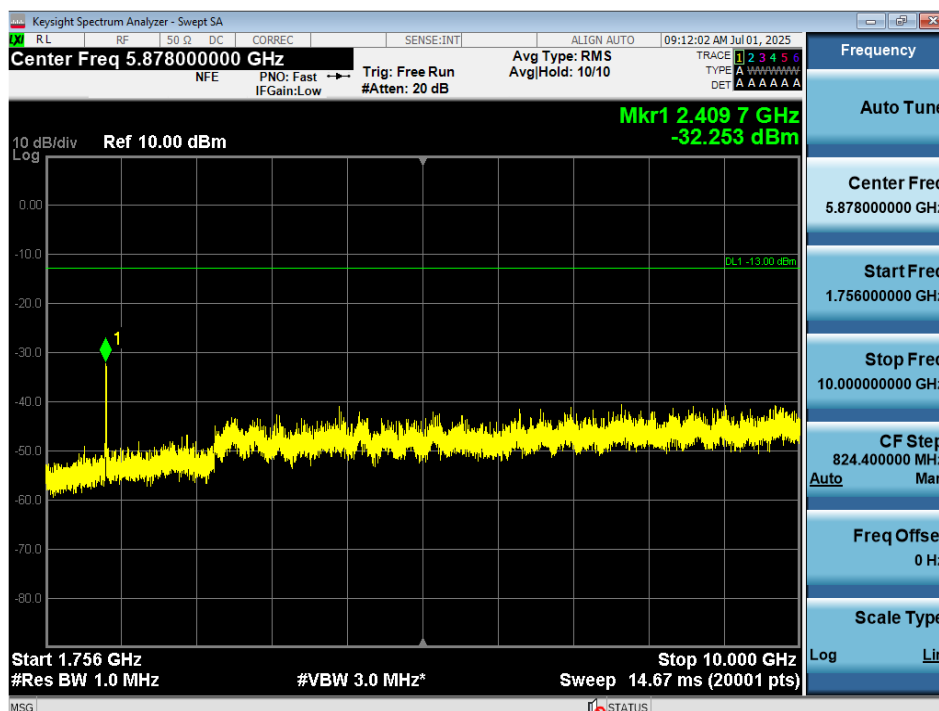
Conducted Spurious Emissions / AWS-1 / Uplink / 150 kHz ~ 30 MHz / ANT 2



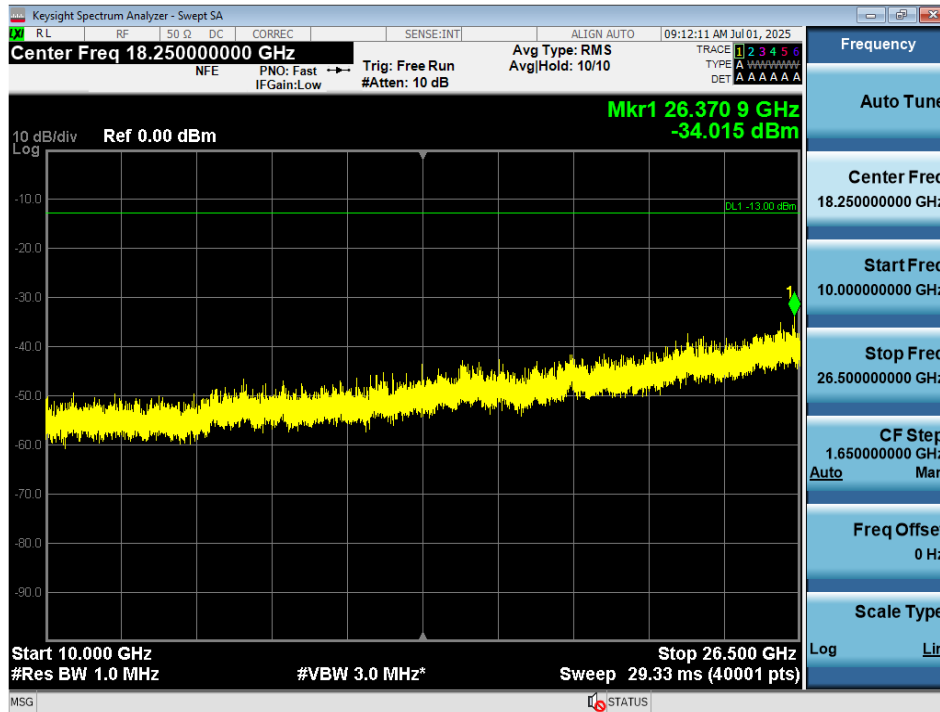
Conducted Spurious Emissions / AWS-1 / Uplink / 30 MHz ~ 1.709 GHz / ANT 2



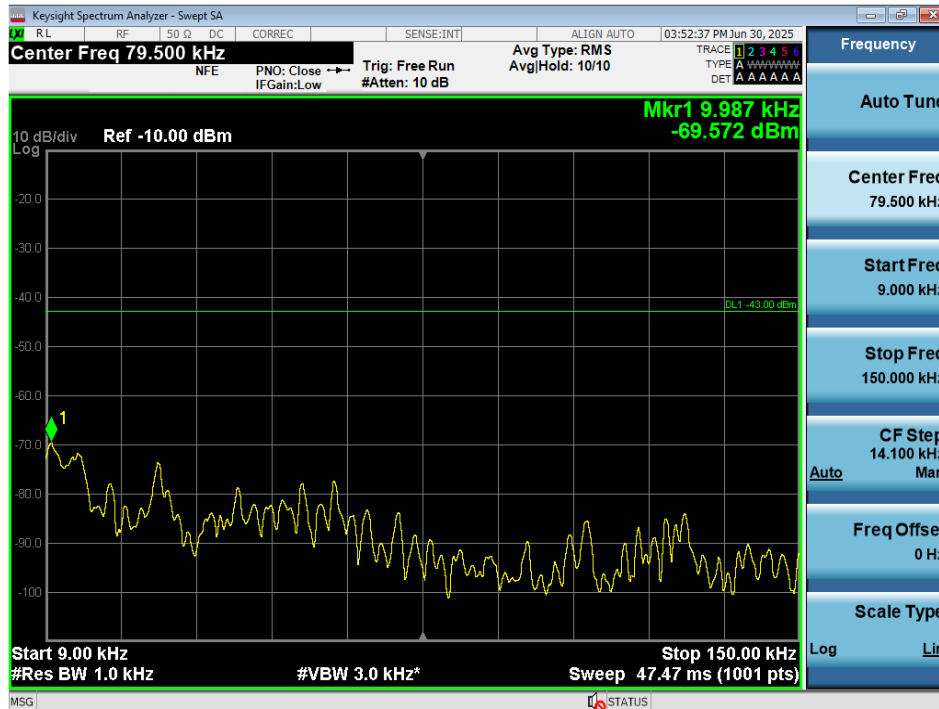
Conducted Spurious Emissions / AWS-1 / Uplink / 1.756 GHz ~ 10 GHz / ANT 2



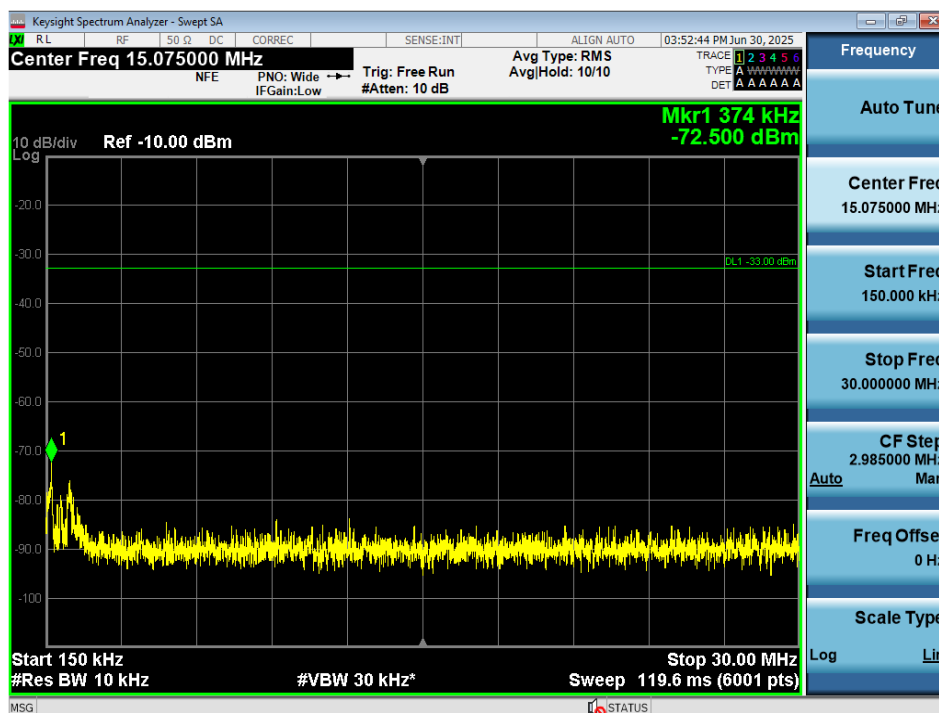
Conducted Spurious Emissions / AWS-1 / Uplink / 10 GHz ~ 26.5 GHz / ANT 2



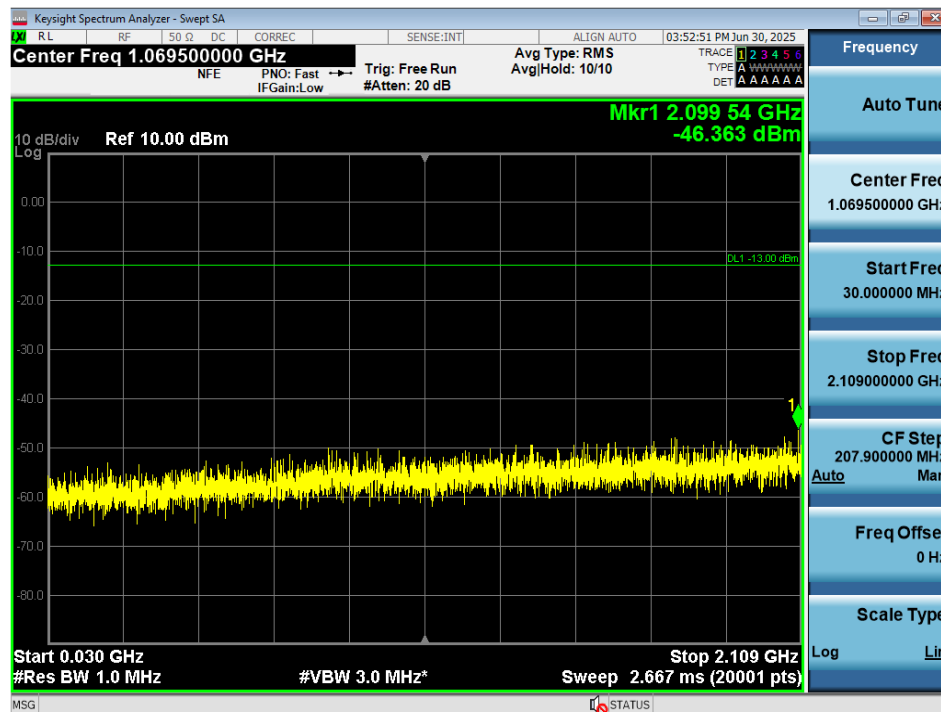
Conducted Spurious Emissions / AWS-1 / Downlink / 9 kHz ~ 150 kHz / ANT 2



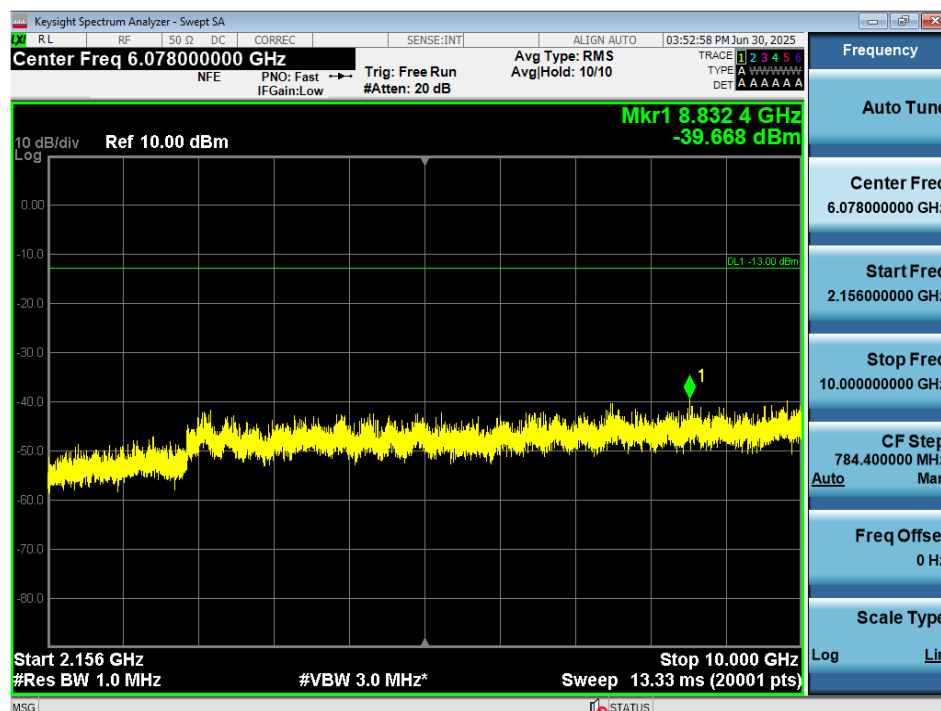
Conducted Spurious Emissions / AWS-1 / Downlink / 150 kHz ~ 30 MHz / ANT 2



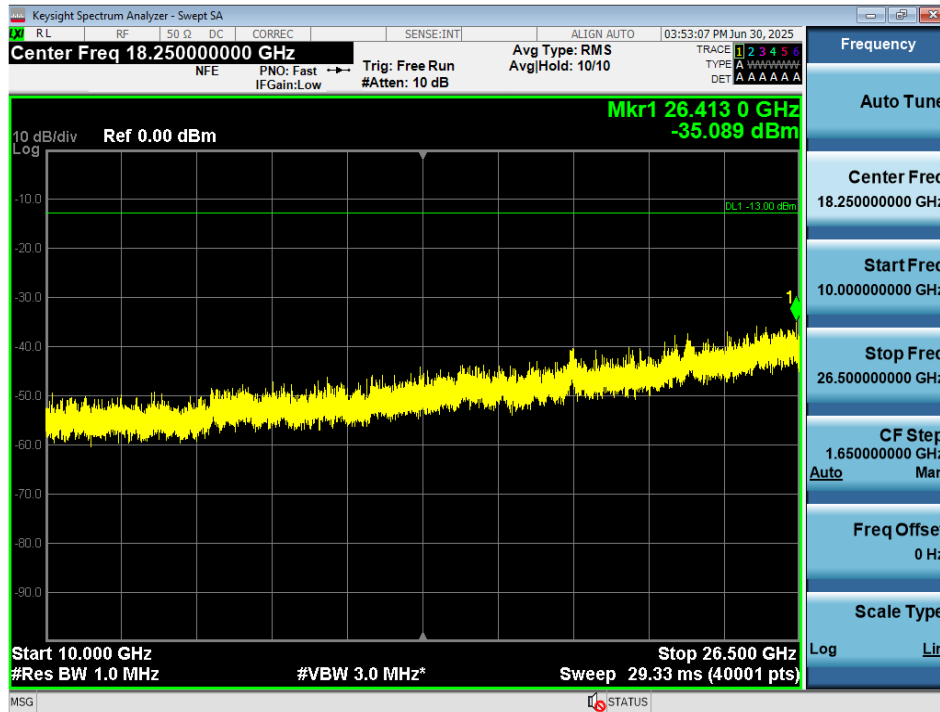
Conducted Spurious Emissions / AWS-1 / Downlink / 30 MHz ~ 2.109 GHz / ANT 2



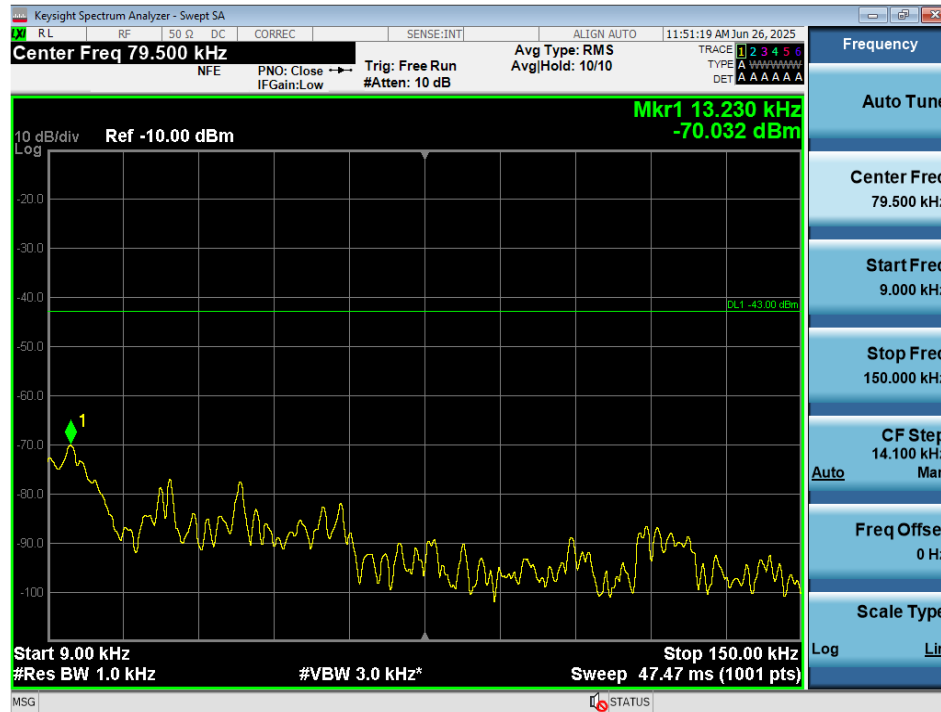
Conducted Spurious Emissions / AWS-1 / Downlink / 2.156 GHz ~ 10 GHz / ANT 2



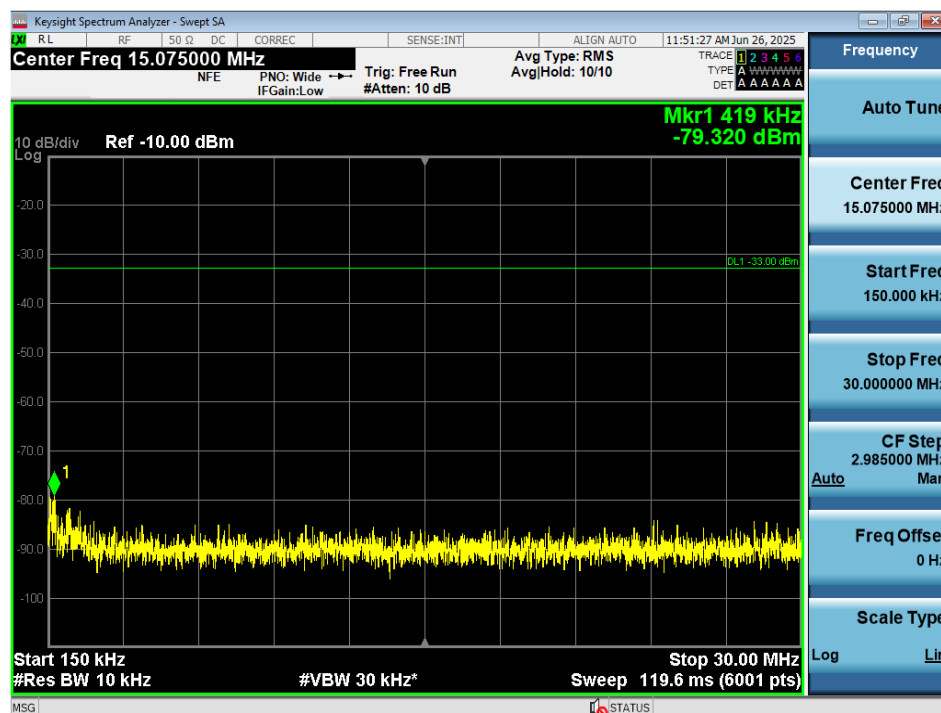
Conducted Spurious Emissions / AWS-1 / Downlink / 10 GHz ~ 26.5 GHz / ANT 2



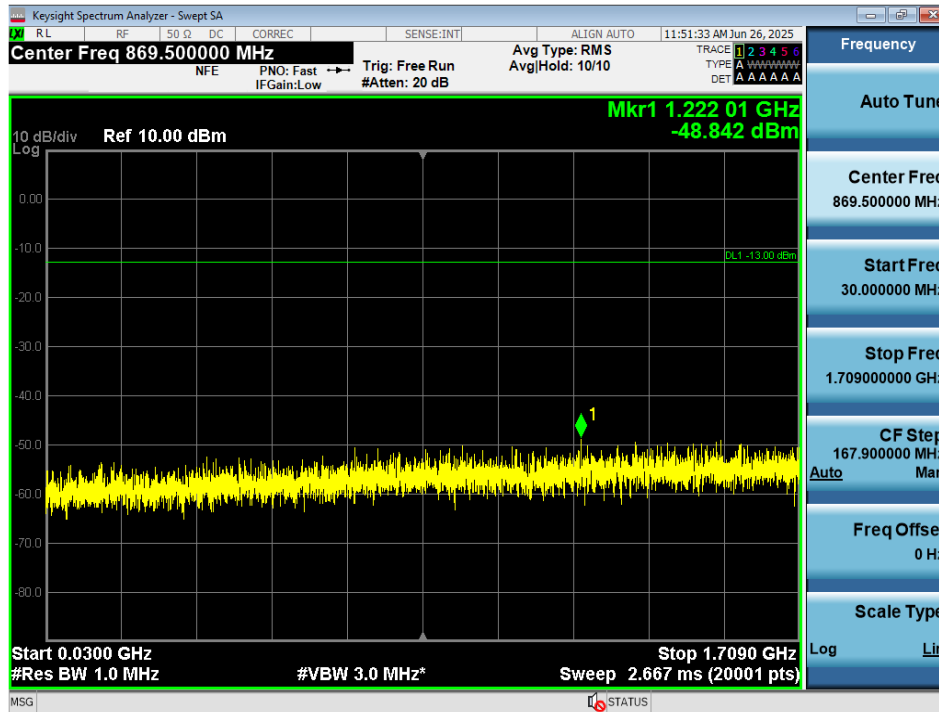
Conducted Spurious Emissions / AWS-1 / Uplink / 9 kHz ~ 150 kHz / ANT 3



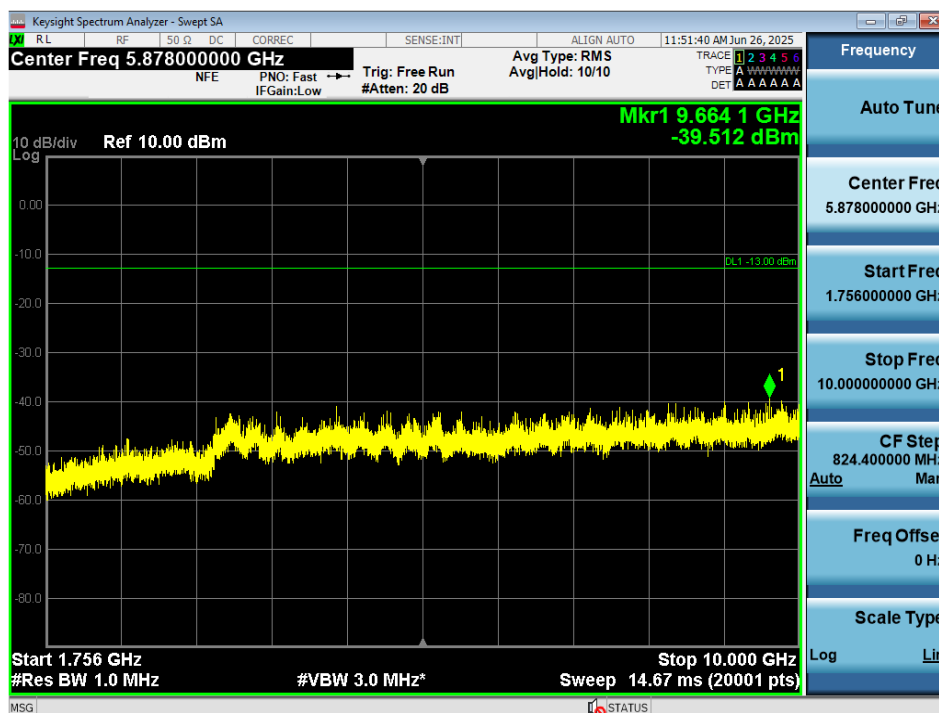
Conducted Spurious Emissions / AWS-1 / Uplink / 150 kHz ~ 30 MHz / ANT 3



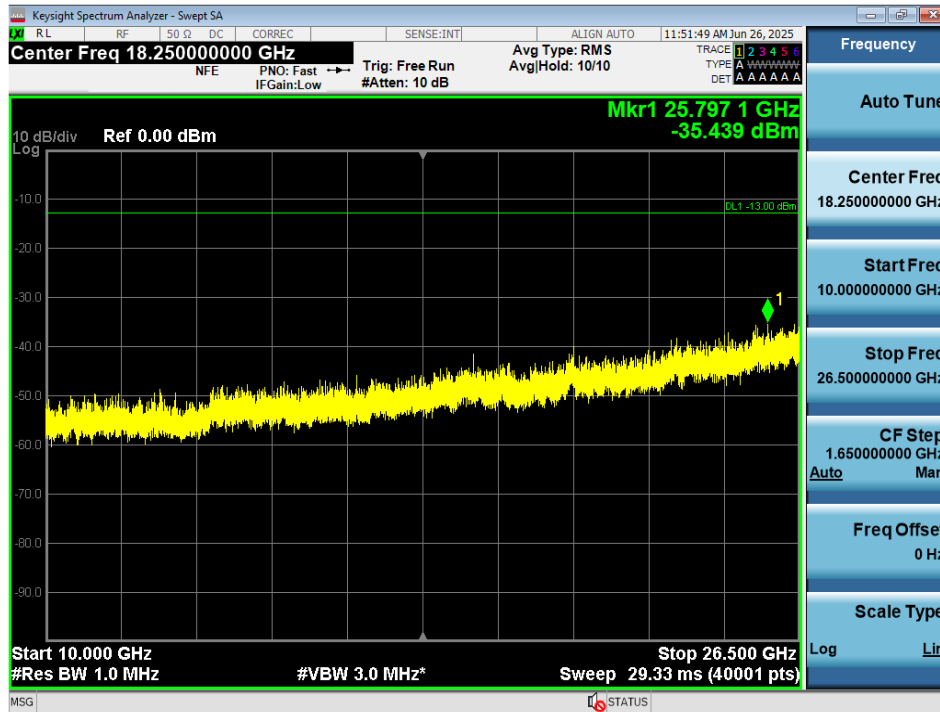
Conducted Spurious Emissions / AWS-1 / Uplink / 30 MHz ~ 1.709 GHz / ANT 3



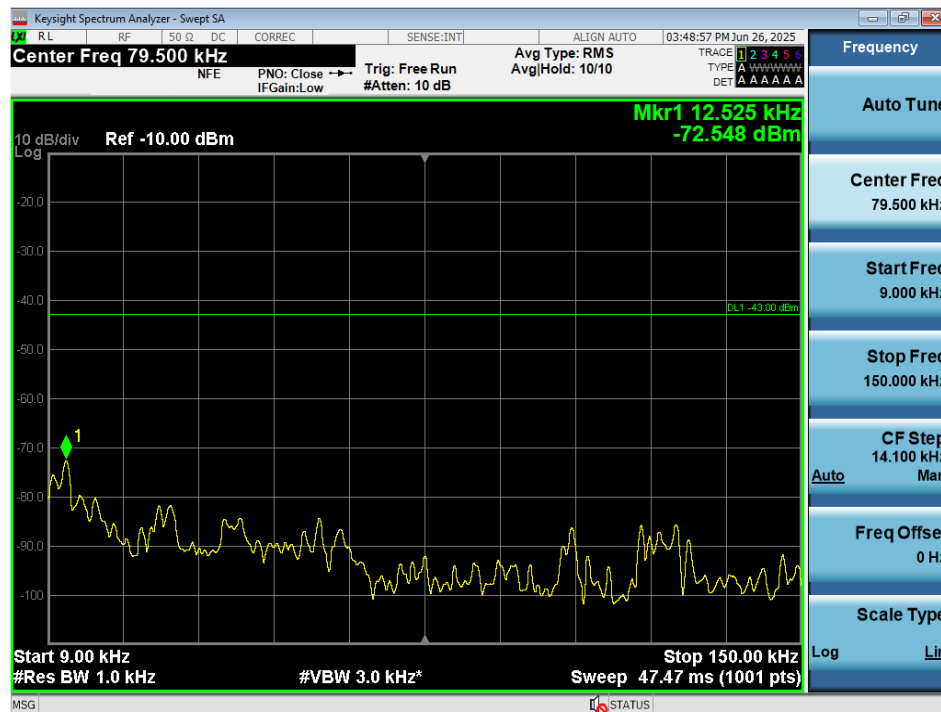
Conducted Spurious Emissions / AWS-1 / Uplink / 1.756 GHz ~ 10 GHz / ANT 3



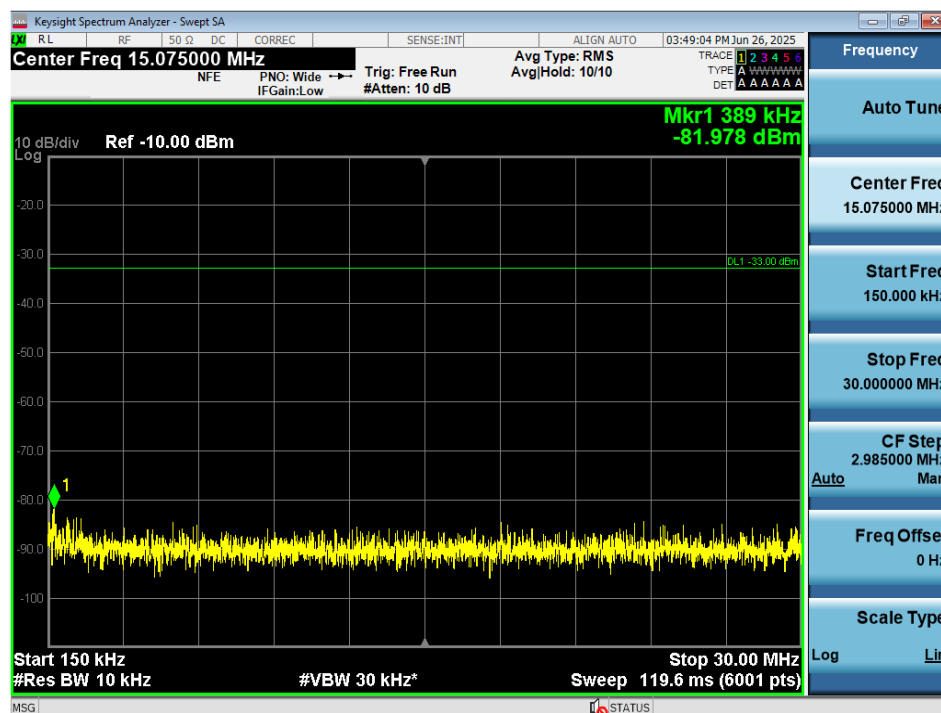
Conducted Spurious Emissions / AWS-1 / Uplink / 10 GHz ~ 26.5 GHz / ANT 3



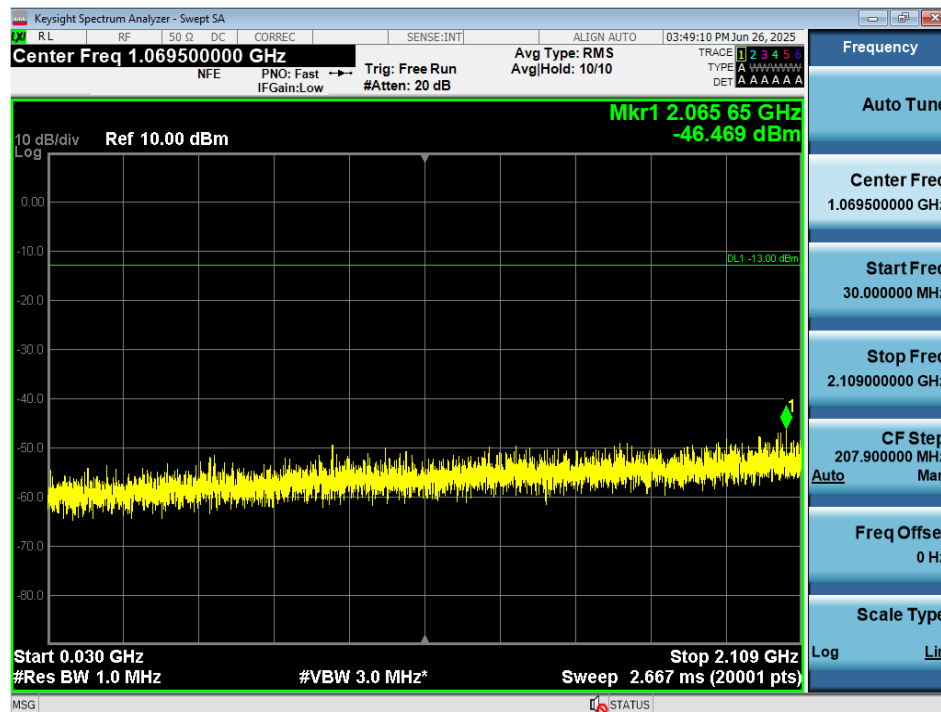
Conducted Spurious Emissions / AWS-1 / Downlink / 9 kHz ~ 150 kHz / ANT 3



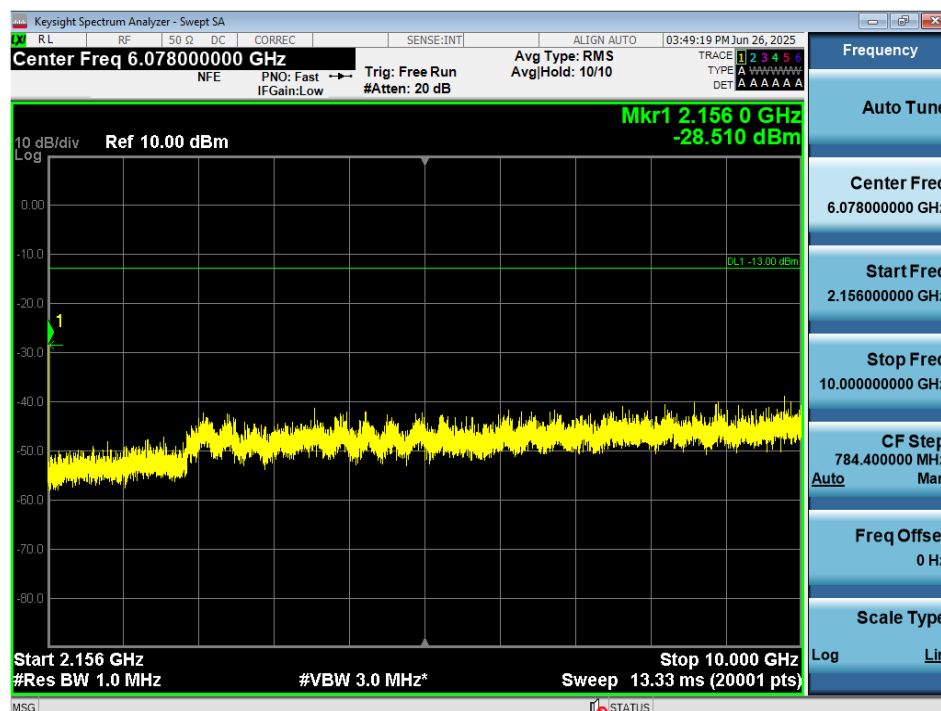
Conducted Spurious Emissions / AWS-1 / Downlink / 150 kHz ~ 30 MHz / ANT 3



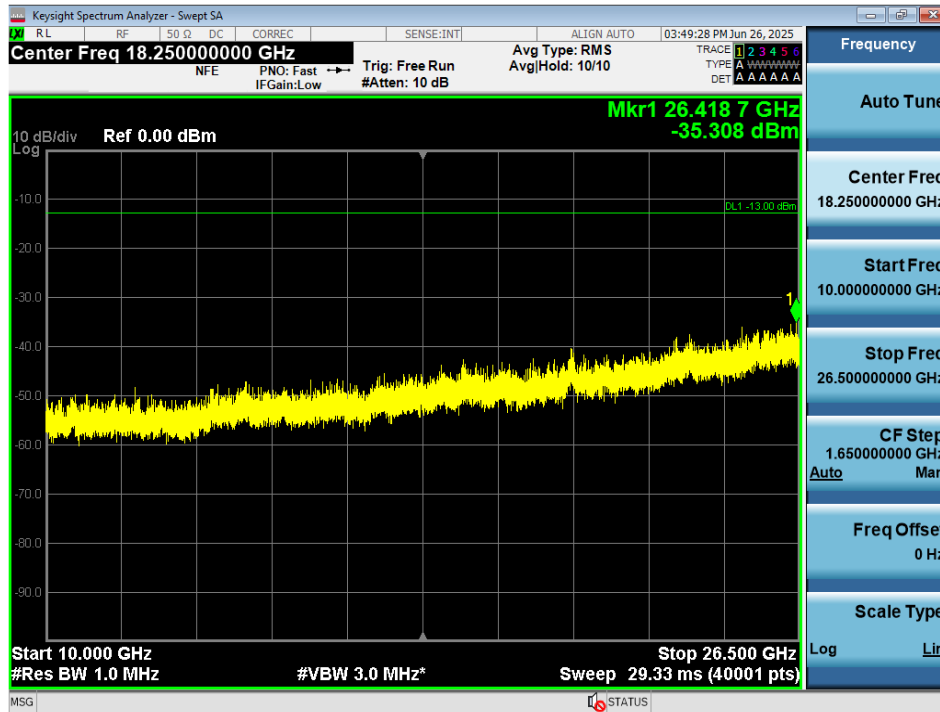
Conducted Spurious Emissions / AWS-1 / Downlink / 30 MHz ~ 2.109 GHz / ANT 3



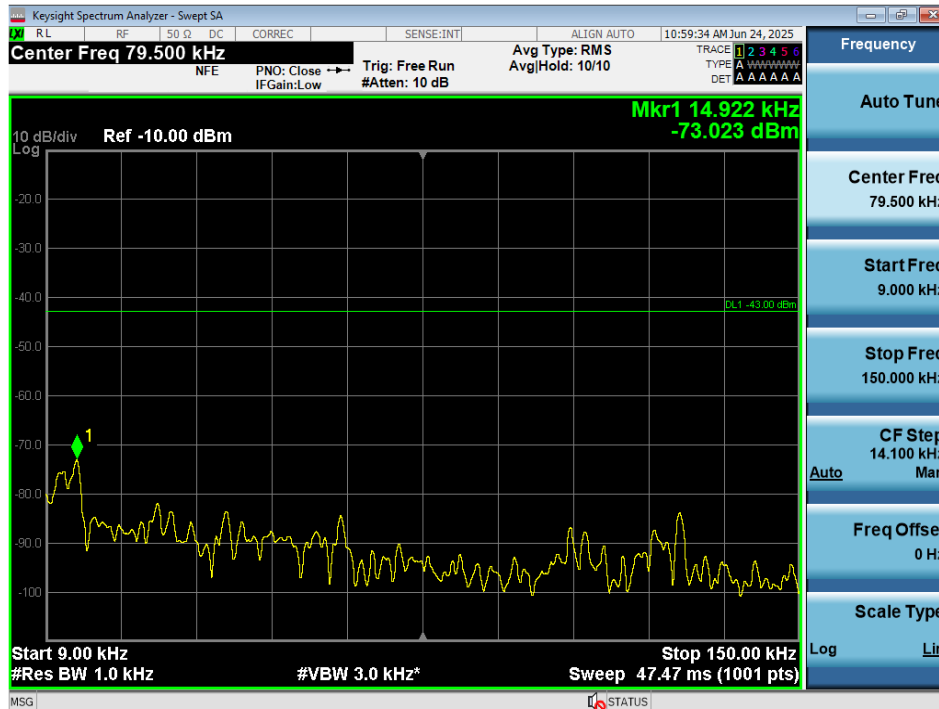
Conducted Spurious Emissions / AWS-1 / Downlink / 2.156 GHz ~ 10 GHz / ANT 3



Conducted Spurious Emissions / AWS-1 / Downlink / 10 GHz ~ 26.5 GHz / ANT 3



Conducted Spurious Emissions / Broadband PCS / Uplink / 9 kHz ~ 150 kHz / ANT 1



Conducted Spurious Emissions / Broadband PCS / Uplink / 150 kHz ~ 30 MHz / ANT 1

