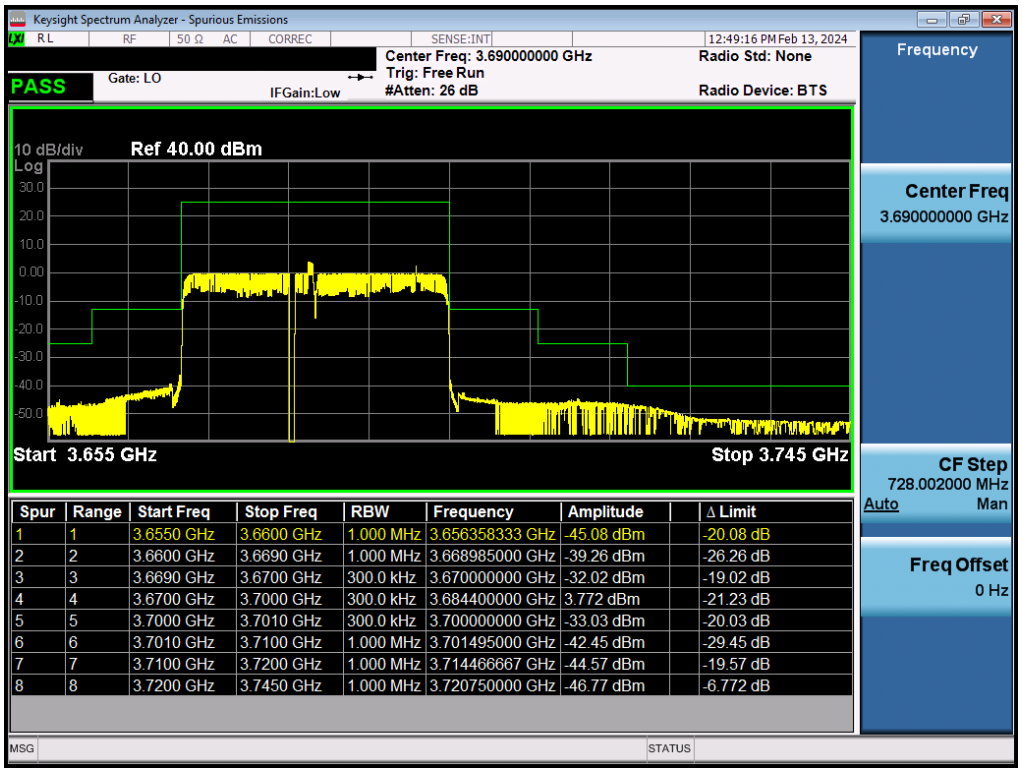
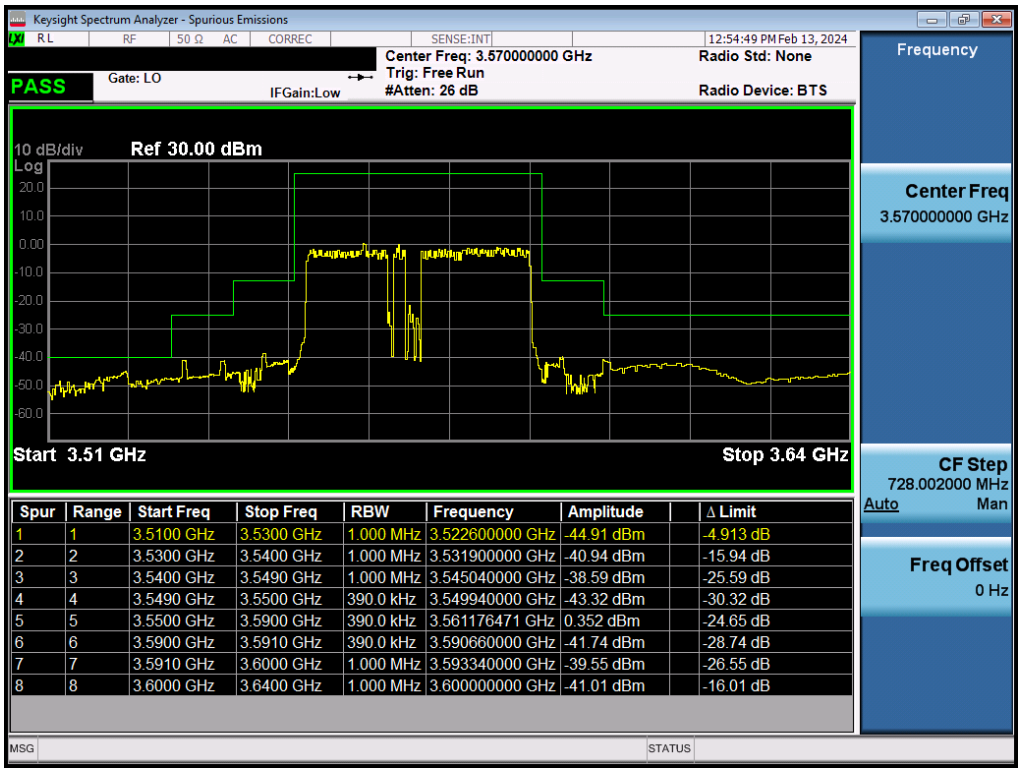


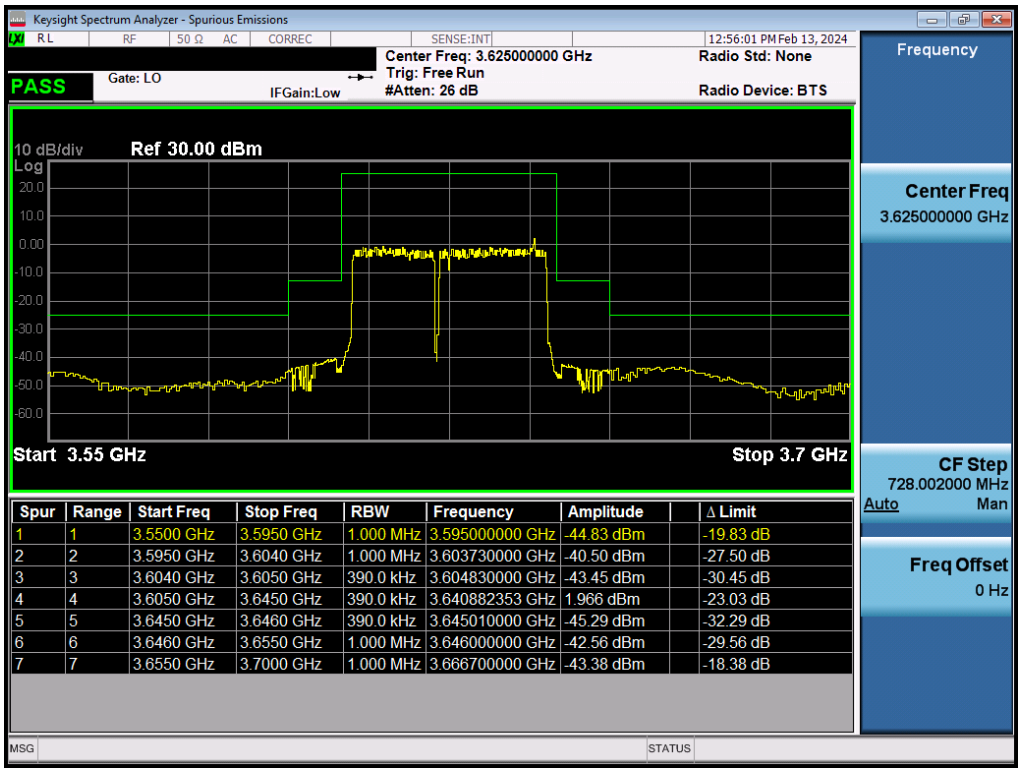
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6550 GHz	3.6600 GHz	1.000 MHz	3.656358333 GHz	-45.08 dBm	-20.08 dB
2	2	3.6600 GHz	3.6690 GHz	1.000 MHz	3.668985000 GHz	-39.26 dBm	-26.26 dB
3	3	3.6690 GHz	3.6700 GHz	300.0 kHz	3.670000000 GHz	-32.02 dBm	-19.02 dB
4	4	3.6700 GHz	3.7000 GHz	300.0 kHz	3.684400000 GHz	3.772 dBm	-21.23 dB
5	5	3.7000 GHz	3.7010 GHz	300.0 kHz	3.700000000 GHz	-33.03 dBm	-20.03 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701495000 GHz	-42.45 dBm	-29.45 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.714466667 GHz	-44.57 dBm	-19.57 dB
8	8	3.7200 GHz	3.7450 GHz	1.000 MHz	3.720750000 GHz	-46.77 dBm	-6.772 dB

Plot 7.213. Conducted Band Edge Plot (30MHz, QPSK, High Channel, ANT1)



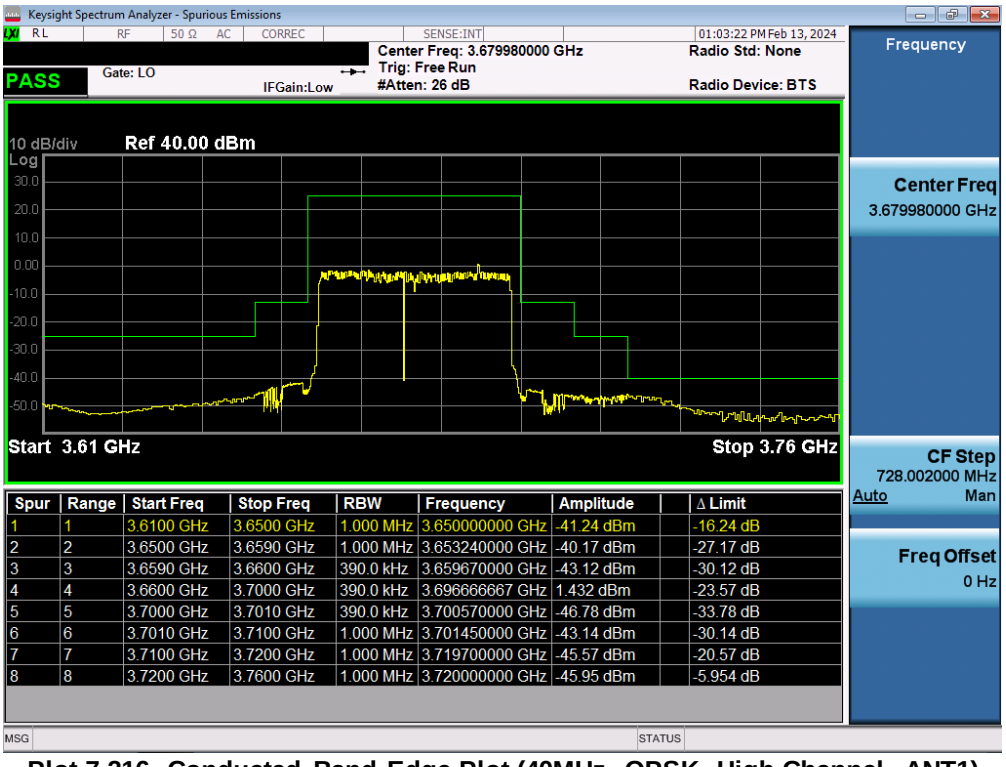
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.522600000 GHz	-44.91 dBm	-4.913 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.531900000 GHz	-40.94 dBm	-15.94 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.545040000 GHz	-38.59 dBm	-25.59 dB
4	4	3.5490 GHz	3.5500 GHz	390.0 kHz	3.549940000 GHz	-43.32 dBm	-30.32 dB
5	5	3.5500 GHz	3.5900 GHz	390.0 kHz	3.561176471 GHz	0.352 dBm	-24.65 dB
6	6	3.5900 GHz	3.5910 GHz	390.0 kHz	3.590660000 GHz	-41.74 dBm	-28.74 dB
7	7	3.5910 GHz	3.6000 GHz	1.000 MHz	3.593340000 GHz	-39.55 dBm	-26.55 dB
8	8	3.6000 GHz	3.6400 GHz	1.000 MHz	3.600000000 GHz	-41.01 dBm	-16.01 dB

Plot 7.214. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, ANT1)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5950 GHz	1.000 MHz	3.595000000 GHz	-44.83 dBm	-19.83 dB
2	2	3.5950 GHz	3.6040 GHz	1.000 MHz	3.603730000 GHz	-40.50 dBm	-27.50 dB
3	3	3.6040 GHz	3.6050 GHz	390.0 kHz	3.604830000 GHz	-43.45 dBm	-30.45 dB
4	4	3.6050 GHz	3.6450 GHz	390.0 kHz	3.640882353 GHz	1.966 dBm	-23.03 dB
5	5	3.6450 GHz	3.6460 GHz	390.0 kHz	3.645010000 GHz	-45.29 dBm	-32.29 dB
6	6	3.6460 GHz	3.6550 GHz	1.000 MHz	3.646000000 GHz	-42.56 dBm	-29.56 dB
7	7	3.6550 GHz	3.7000 GHz	1.000 MHz	3.666700000 GHz	-43.38 dBm	-18.38 dB

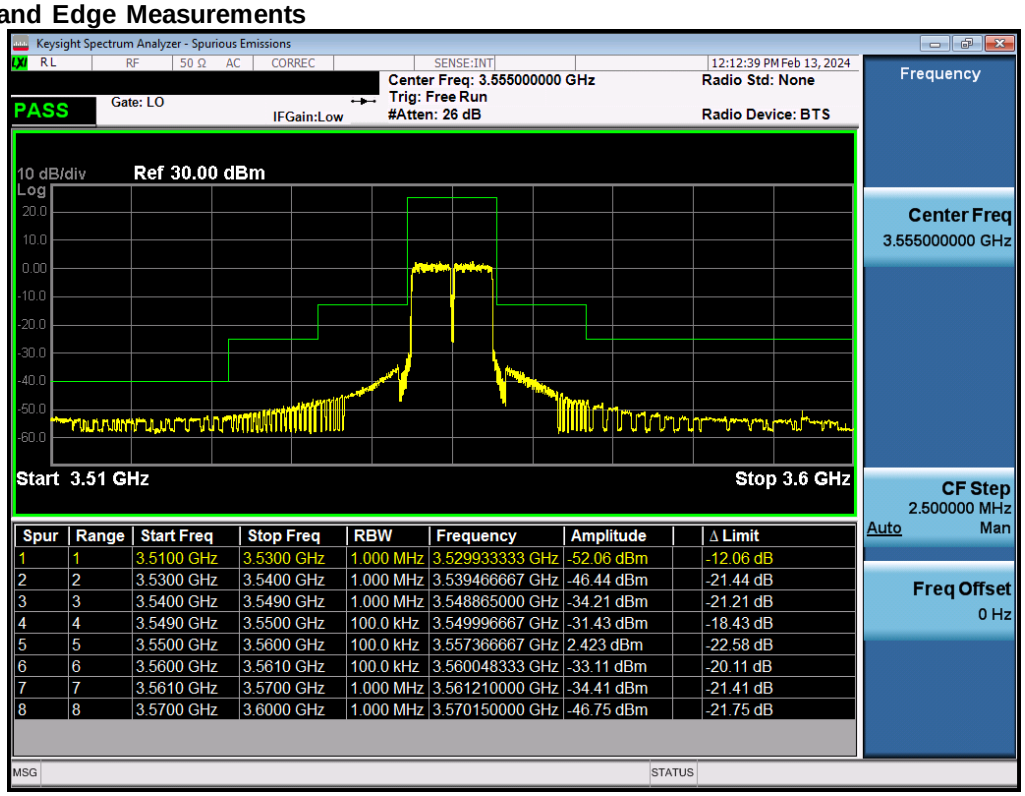
Plot 7.215. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, ANT1)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6100 GHz	3.6500 GHz	1.000 MHz	3.650000000 GHz	-41.24 dBm	-16.24 dB
2	2	3.6500 GHz	3.6590 GHz	1.000 MHz	3.653240000 GHz	-40.17 dBm	-27.17 dB
3	3	3.6590 GHz	3.6600 GHz	390.0 kHz	3.659670000 GHz	-43.12 dBm	-30.12 dB
4	4	3.6600 GHz	3.7000 GHz	390.0 kHz	3.696666667 GHz	1.432 dBm	-23.57 dB
5	5	3.7000 GHz	3.7010 GHz	390.0 kHz	3.700570000 GHz	-46.78 dBm	-33.78 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701450000 GHz	-43.14 dBm	-30.14 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.719700000 GHz	-45.57 dBm	-20.57 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.720000000 GHz	-45.95 dBm	-5.954 dB

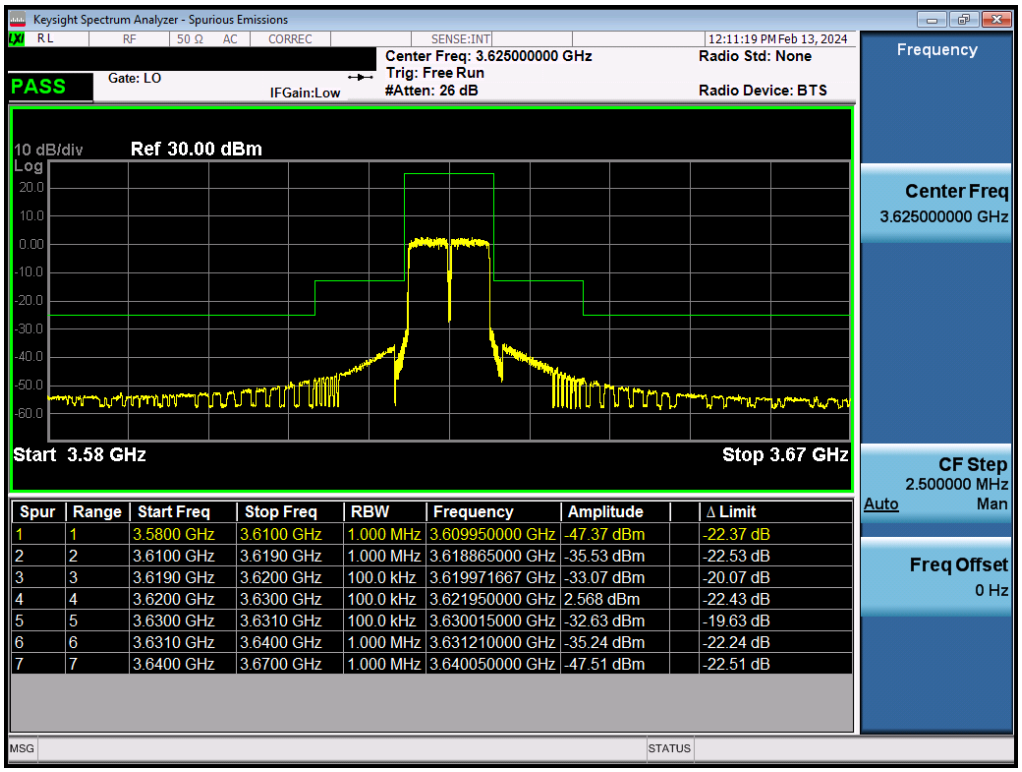
Plot 7.216. Conducted Band Edge Plot (40MHz, QPSK, High Channel, ANT1)

Antenna 2 Band Edge Measurements



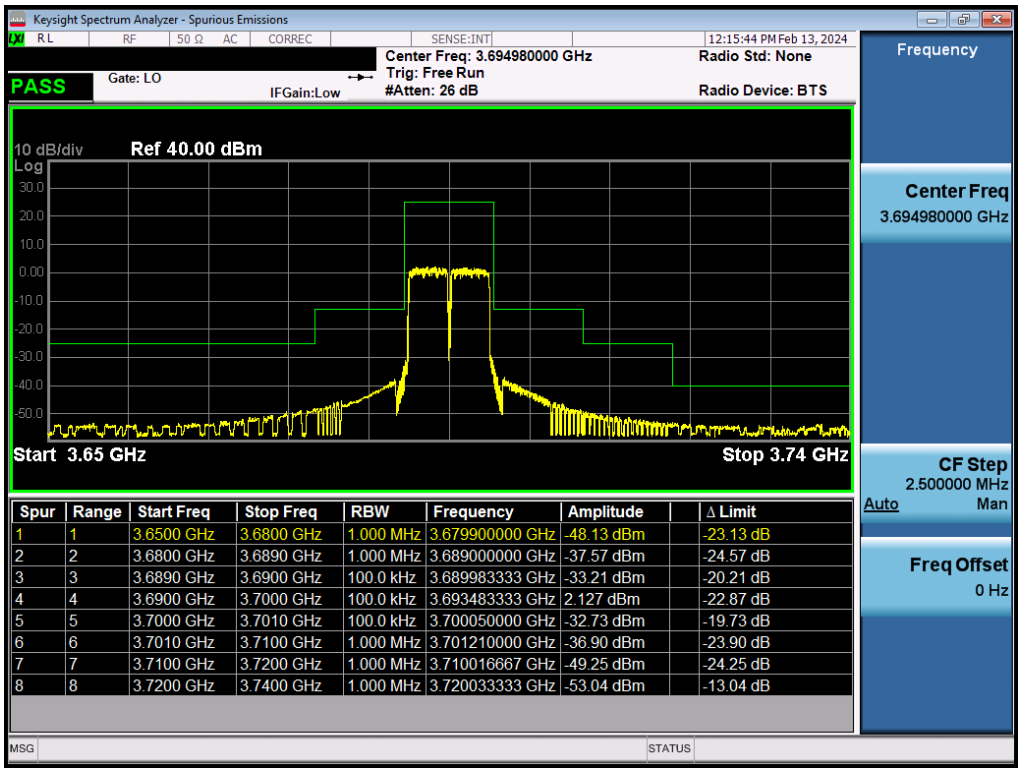
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.529933333 GHz	-52.06 dBm	-12.06 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539466667 GHz	-46.44 dBm	-21.44 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548865000 GHz	-34.21 dBm	-21.21 dB
4	4	3.5490 GHz	3.5500 GHz	100.0 kHz	3.549996667 GHz	-31.43 dBm	-18.43 dB
5	5	3.5500 GHz	3.5600 GHz	100.0 kHz	3.557366667 GHz	2.423 dBm	-22.58 dB
6	6	3.5600 GHz	3.5610 GHz	100.0 kHz	3.560048333 GHz	-33.11 dBm	-20.11 dB
7	7	3.5610 GHz	3.5700 GHz	1.000 MHz	3.561210000 GHz	-34.41 dBm	-21.41 dB
8	8	3.5700 GHz	3.6000 GHz	1.000 MHz	3.570150000 GHz	-46.75 dBm	-21.75 dB

Plot 7.217. Conducted Band Edge Plot (10MHz, QPSK, Low Channel, ANT2)



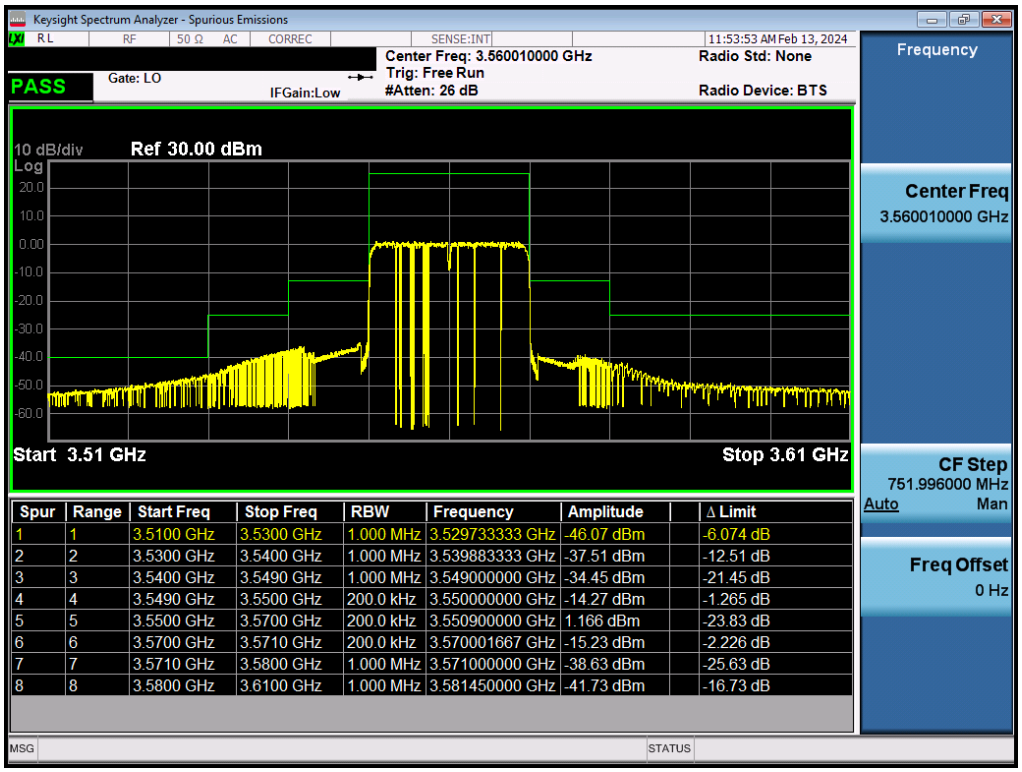
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5800 GHz	3.6100 GHz	1.000 MHz	3.609950000 GHz	-47.37 dBm	-22.37 dB
2	2	3.6100 GHz	3.6190 GHz	1.000 MHz	3.618865000 GHz	-35.53 dBm	-22.53 dB
3	3	3.6190 GHz	3.6200 GHz	100.0 kHz	3.619971667 GHz	-33.07 dBm	-20.07 dB
4	4	3.6200 GHz	3.6300 GHz	100.0 kHz	3.621950000 GHz	2.568 dBm	-22.43 dB
5	5	3.6300 GHz	3.6310 GHz	100.0 kHz	3.630015000 GHz	-32.63 dBm	-19.63 dB
6	6	3.6310 GHz	3.6400 GHz	1.000 MHz	3.631210000 GHz	-35.24 dBm	-22.24 dB
7	7	3.6400 GHz	3.6700 GHz	1.000 MHz	3.640050000 GHz	-47.51 dBm	-22.51 dB

Plot 7.218. Conducted Band Edge Plot (10MHz, QPSK, Mid Channel, ANT2)



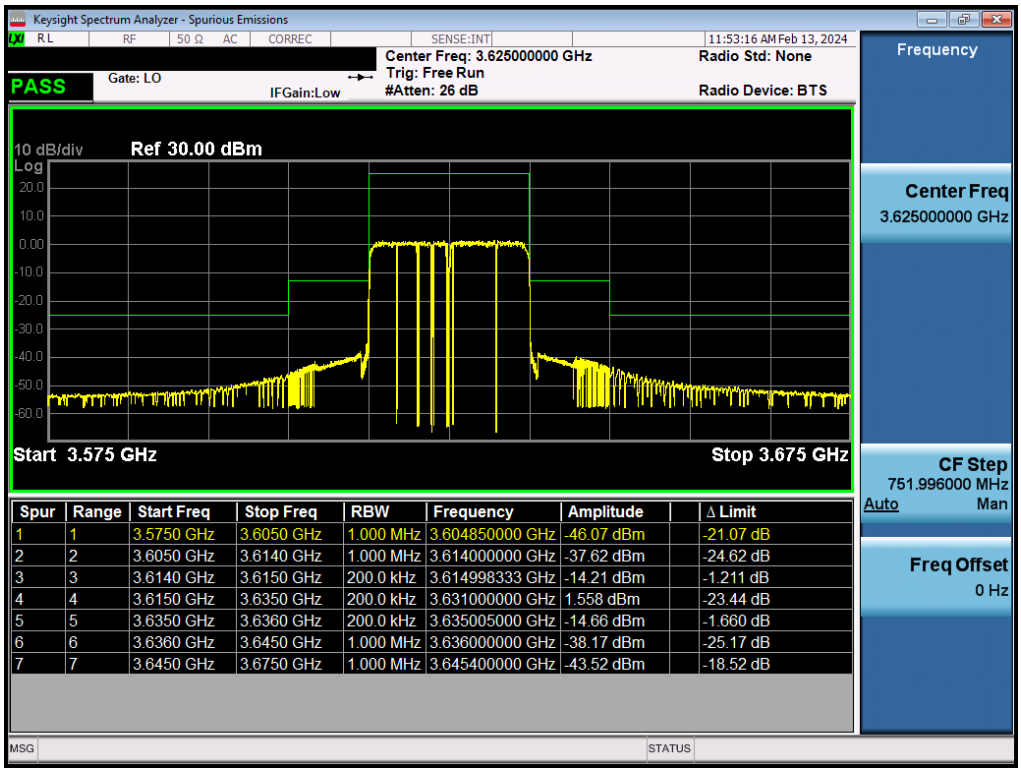
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6500 GHz	3.6800 GHz	1.000 MHz	3.679900000 GHz	-48.13 dBm	-23.13 dB
2	2	3.6800 GHz	3.6890 GHz	1.000 MHz	3.689000000 GHz	-37.57 dBm	-24.57 dB
3	3	3.6890 GHz	3.6900 GHz	100.0 kHz	3.689983333 GHz	-33.21 dBm	-20.21 dB
4	4	3.6900 GHz	3.7000 GHz	100.0 kHz	3.693483333 GHz	2.127 dBm	-22.87 dB
5	5	3.7000 GHz	3.7010 GHz	100.0 kHz	3.700050000 GHz	-32.73 dBm	-19.73 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701210000 GHz	-36.90 dBm	-23.90 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710016667 GHz	-49.25 dBm	-24.25 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.720033333 GHz	-53.04 dBm	-13.04 dB

Plot 7.219. Conducted Band Edge Plot (10MHz, QPSK, High Channel, ANT2)



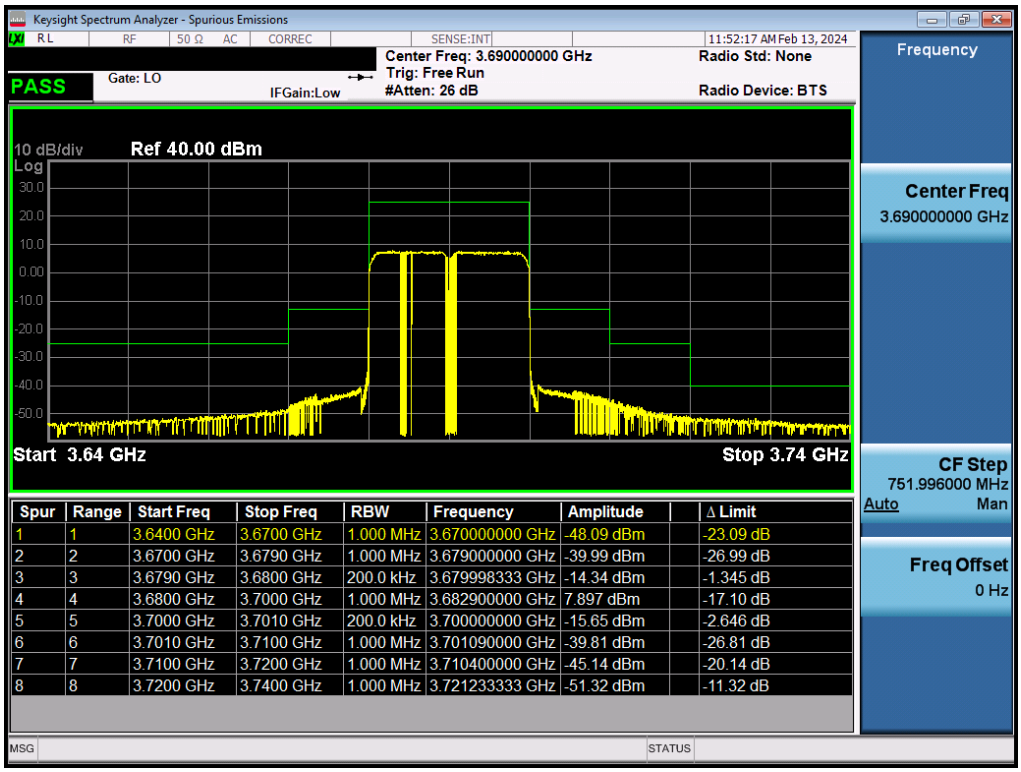
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.529733333 GHz	-46.07 dBm	-6.074 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539883333 GHz	-37.51 dBm	-12.51 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.549000000 GHz	-34.45 dBm	-21.45 dB
4	4	3.5490 GHz	3.5500 GHz	200.0 kHz	3.550000000 GHz	-14.27 dBm	-1.265 dB
5	5	3.5500 GHz	3.5700 GHz	200.0 kHz	3.550900000 GHz	1.166 dBm	-23.83 dB
6	6	3.5700 GHz	3.5710 GHz	200.0 kHz	3.570001667 GHz	-15.23 dBm	-2.226 dB
7	7	3.5710 GHz	3.5800 GHz	1.000 MHz	3.571000000 GHz	-38.63 dBm	-25.63 dB
8	8	3.5800 GHz	3.6100 GHz	1.000 MHz	3.581450000 GHz	-41.73 dBm	-16.73 dB

Plot 7.220. Conducted Band Edge Plot (20MHz, QPSK, Low Channel, ANT2)



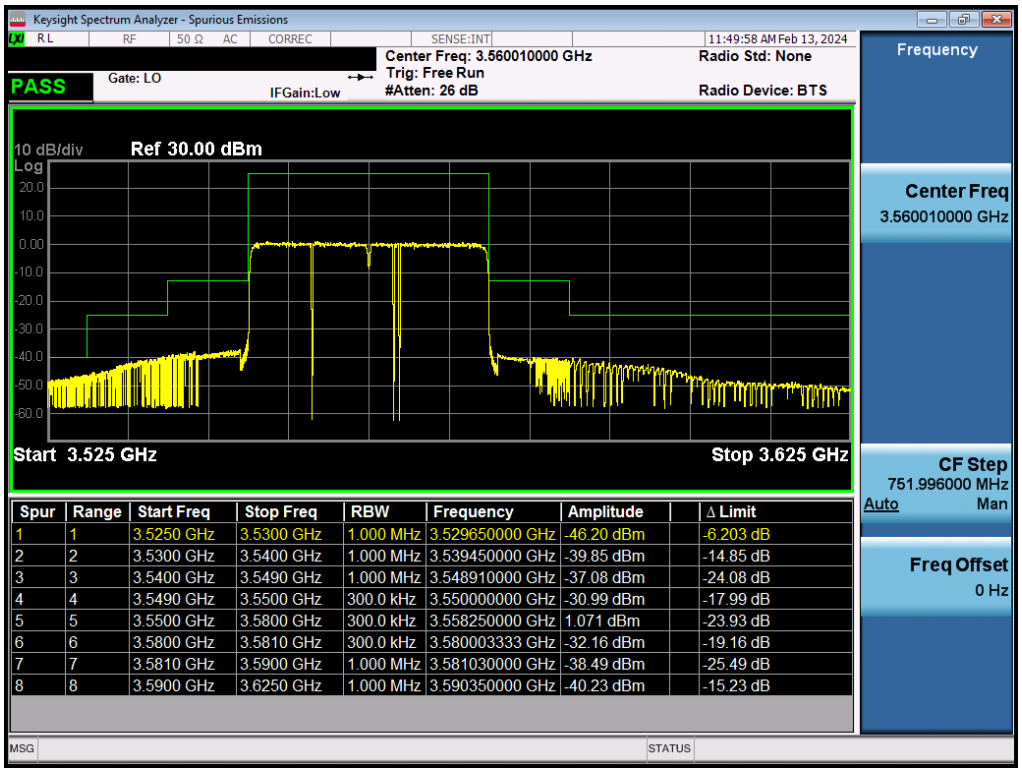
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5750 GHz	3.6050 GHz	1.000 MHz	3.604850000 GHz	-46.07 dBm	-21.07 dB
2	2	3.6050 GHz	3.6140 GHz	1.000 MHz	3.614000000 GHz	-37.62 dBm	-24.62 dB
3	3	3.6140 GHz	3.6150 GHz	200.0 kHz	3.614998333 GHz	-14.21 dBm	-1.211 dB
4	4	3.6150 GHz	3.6350 GHz	200.0 kHz	3.631000000 GHz	1.558 dBm	-23.44 dB
5	5	3.6350 GHz	3.6360 GHz	200.0 kHz	3.635005000 GHz	-14.66 dBm	-1.660 dB
6	6	3.6360 GHz	3.6450 GHz	1.000 MHz	3.636000000 GHz	-38.17 dBm	-25.17 dB
7	7	3.6450 GHz	3.6750 GHz	1.000 MHz	3.645400000 GHz	-43.52 dBm	-18.52 dB

Plot 7.221. Conducted Band Edge Plot (20MHz, QPSK, Mid Channel, ANT2)



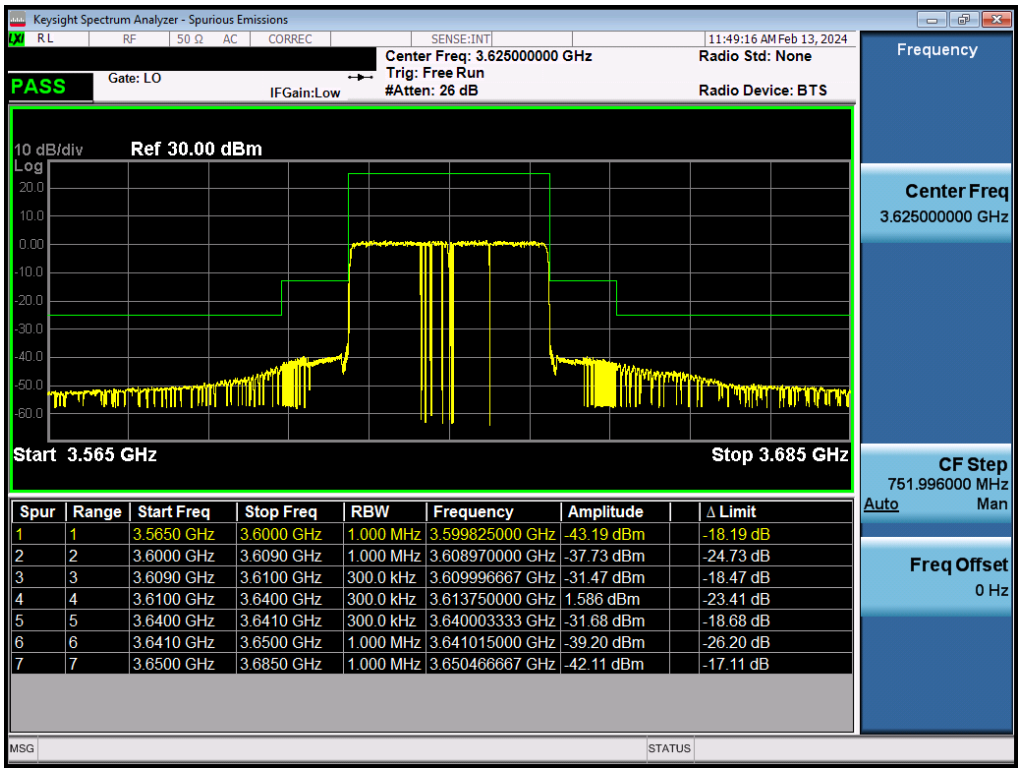
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6400 GHz	3.6700 GHz	1.000 MHz	3.670000000 GHz	-48.09 dBm	-23.09 dB
2	2	3.6700 GHz	3.6790 GHz	1.000 MHz	3.679000000 GHz	-39.99 dBm	-26.99 dB
3	3	3.6790 GHz	3.6800 GHz	200.0 kHz	3.679998333 GHz	-14.34 dBm	-1.345 dB
4	4	3.6800 GHz	3.7000 GHz	1.000 MHz	3.682900000 GHz	7.897 dBm	-17.10 dB
5	5	3.7000 GHz	3.7010 GHz	200.0 kHz	3.700000000 GHz	-15.65 dBm	-2.646 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701090000 GHz	-39.81 dBm	-26.81 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710400000 GHz	-45.14 dBm	-20.14 dB
8	8	3.7200 GHz	3.7400 GHz	1.000 MHz	3.721233333 GHz	-51.32 dBm	-11.32 dB

Plot 7.222. Conducted Band Edge Plot (20MHz, QPSK, High Channel, ANT2)



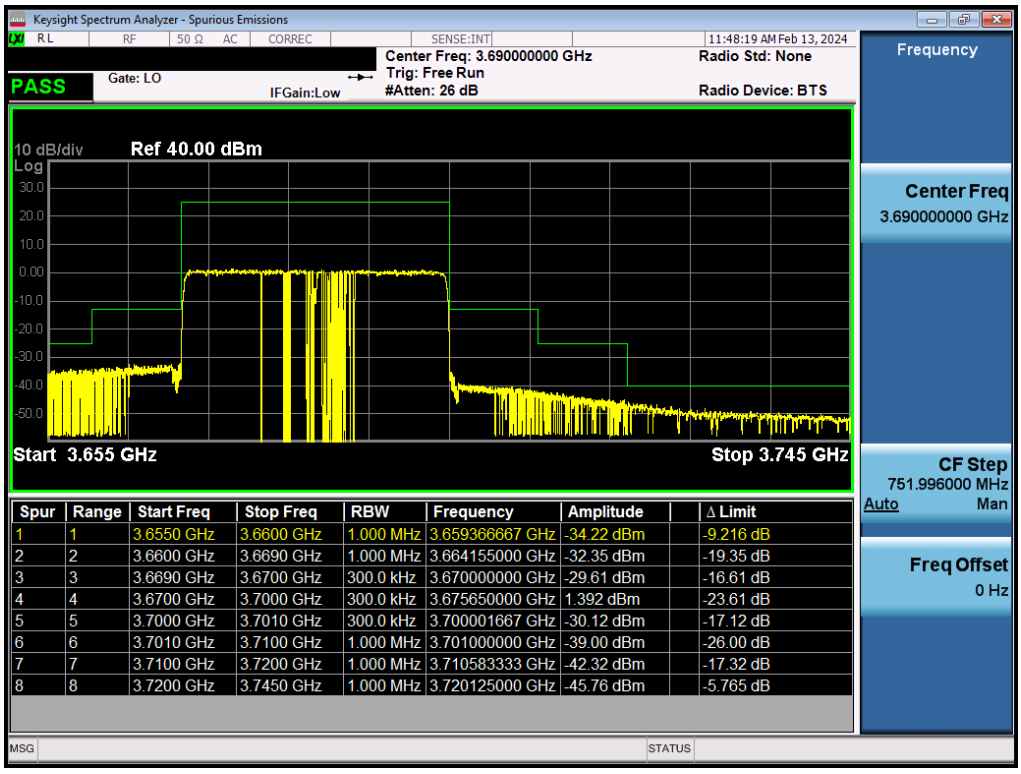
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5250 GHz	3.5300 GHz	1.000 MHz	3.529650000 GHz	-46.20 dBm	-6.203 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539450000 GHz	-39.85 dBm	-14.85 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548910000 GHz	-37.08 dBm	-24.08 dB
4	4	3.5490 GHz	3.5500 GHz	300.0 kHz	3.550000000 GHz	-30.99 dBm	-17.99 dB
5	5	3.5500 GHz	3.5800 GHz	300.0 kHz	3.558250000 GHz	1.071 dBm	-23.93 dB
6	6	3.5800 GHz	3.5810 GHz	300.0 kHz	3.580003333 GHz	-32.16 dBm	-19.16 dB
7	7	3.5810 GHz	3.5900 GHz	1.000 MHz	3.581030000 GHz	-38.49 dBm	-25.49 dB
8	8	3.5900 GHz	3.6250 GHz	1.000 MHz	3.590350000 GHz	-40.23 dBm	-15.23 dB

Plot 7.223. Conducted Band Edge Plot (30MHz, QPSK, Low Channel, ANT2)



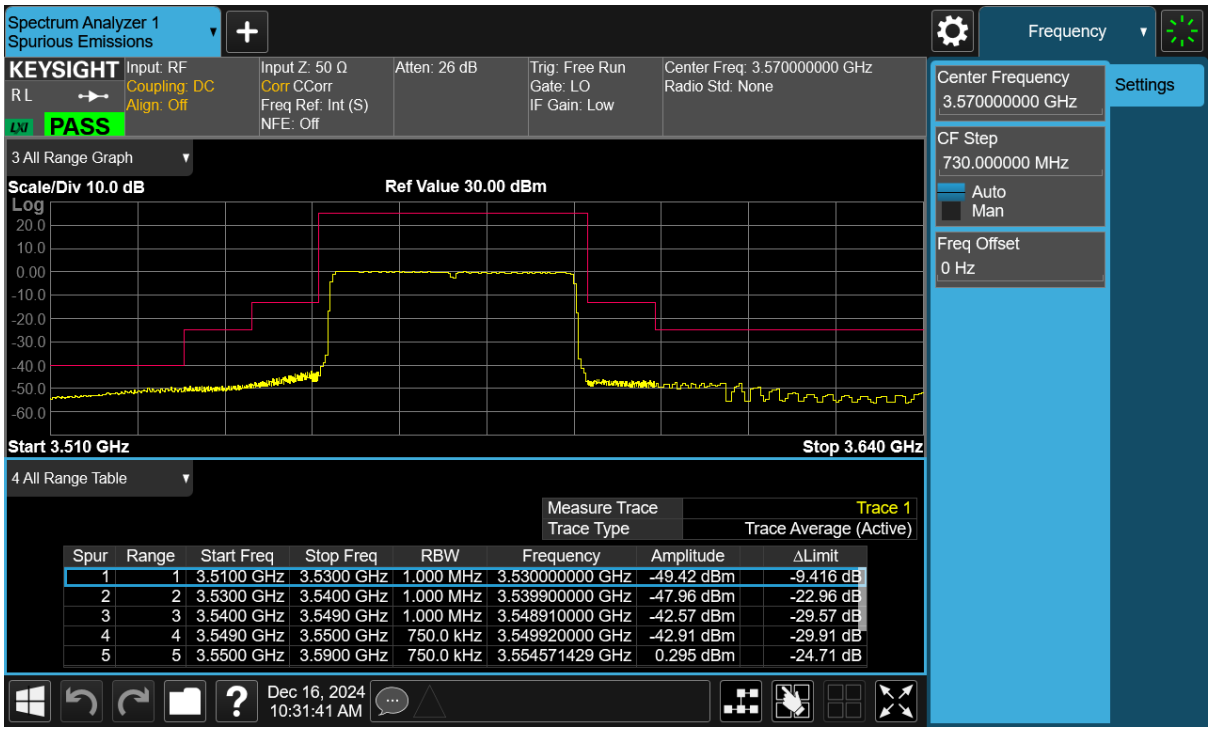
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5650 GHz	3.6000 GHz	1.000 MHz	3.599825000 GHz	-43.19 dBm	-18.19 dB
2	2	3.6000 GHz	3.6090 GHz	1.000 MHz	3.608970000 GHz	-37.73 dBm	-24.73 dB
3	3	3.6090 GHz	3.6100 GHz	300.0 kHz	3.609996667 GHz	-31.47 dBm	-18.47 dB
4	4	3.6100 GHz	3.6400 GHz	300.0 kHz	3.613750000 GHz	1.586 dBm	-23.41 dB
5	5	3.6400 GHz	3.6410 GHz	300.0 kHz	3.640003333 GHz	-31.68 dBm	-18.68 dB
6	6	3.6410 GHz	3.6500 GHz	1.000 MHz	3.641015000 GHz	-39.20 dBm	-26.20 dB
7	7	3.6500 GHz	3.6850 GHz	1.000 MHz	3.650466667 GHz	-42.11 dBm	-17.11 dB

Plot 7.224. Conducted Band Edge Plot (30MHz, QPSK, Mid Channel, ANT2)



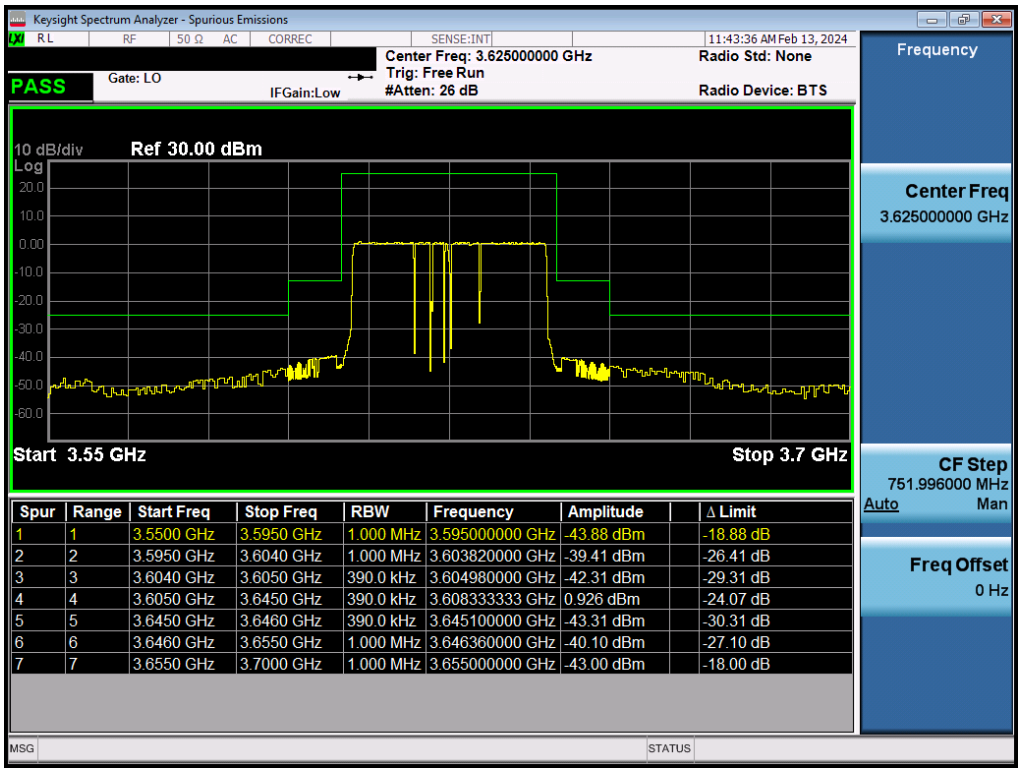
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6550 GHz	3.6600 GHz	1.000 MHz	3.659366667 GHz	-34.22 dBm	-9.216 dB
2	2	3.6600 GHz	3.6690 GHz	1.000 MHz	3.664155000 GHz	-32.35 dBm	-19.35 dB
3	3	3.6690 GHz	3.6700 GHz	300.0 kHz	3.670000000 GHz	-29.61 dBm	-16.61 dB
4	4	3.6700 GHz	3.7000 GHz	300.0 kHz	3.675650000 GHz	1.392 dBm	-23.61 dB
5	5	3.7000 GHz	3.7010 GHz	300.0 kHz	3.700001667 GHz	-30.12 dBm	-17.12 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-39.00 dBm	-26.00 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710583333 GHz	-42.32 dBm	-17.32 dB
8	8	3.7200 GHz	3.7450 GHz	1.000 MHz	3.720125000 GHz	-45.76 dBm	-5.765 dB

Plot 7.225. Conducted Band Edge Plot (30MHz, QPSK, High Channel, ANT2)



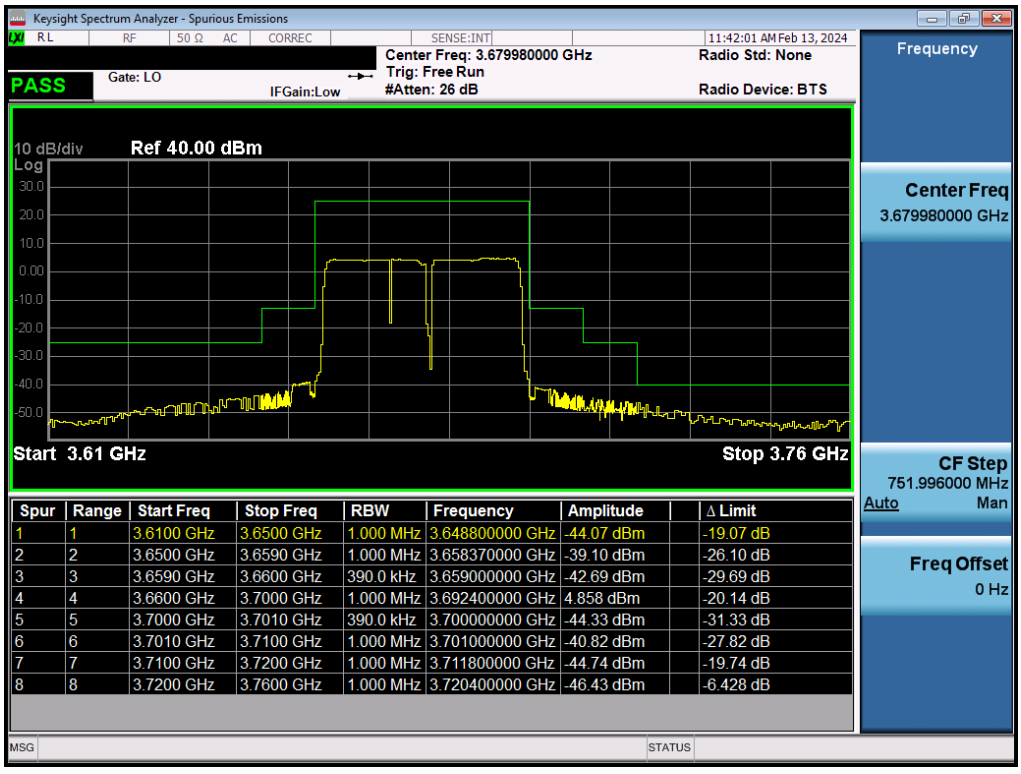
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.5100 GHz	3.5300 GHz	1.000 MHz	3.530000000 GHz	-49.42 dBm	-9.416 dB
2	2	3.5300 GHz	3.5400 GHz	1.000 MHz	3.539900000 GHz	-47.96 dBm	-22.96 dB
3	3	3.5400 GHz	3.5490 GHz	1.000 MHz	3.548910000 GHz	-42.57 dBm	-29.57 dB
4	4	3.5490 GHz	3.5500 GHz	750.0 kHz	3.549920000 GHz	-42.91 dBm	-29.91 dB
5	5	3.5500 GHz	3.5900 GHz	750.0 kHz	3.554571429 GHz	0.295 dBm	-24.71 dB

Plot 7.226. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, ANT2)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.5500 GHz	3.5950 GHz	1.000 MHz	3.595000000 GHz	-43.88 dBm	-18.88 dB
2	2	3.5950 GHz	3.6040 GHz	1.000 MHz	3.603820000 GHz	-39.41 dBm	-26.41 dB
3	3	3.6040 GHz	3.6050 GHz	390.0 kHz	3.604980000 GHz	-42.31 dBm	-29.31 dB
4	4	3.6050 GHz	3.6450 GHz	390.0 kHz	3.608333333 GHz	0.926 dBm	-24.07 dB
5	5	3.6450 GHz	3.6460 GHz	390.0 kHz	3.645100000 GHz	-43.31 dBm	-30.31 dB
6	6	3.6460 GHz	3.6550 GHz	1.000 MHz	3.646360000 GHz	-40.10 dBm	-27.10 dB
7	7	3.6550 GHz	3.7000 GHz	1.000 MHz	3.655000000 GHz	-43.00 dBm	-18.00 dB

Plot 7.227. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, ANT2)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	3.6100 GHz	3.6500 GHz	1.000 MHz	3.648800000 GHz	-44.07 dBm	-19.07 dB
2	2	3.6500 GHz	3.6590 GHz	1.000 MHz	3.658370000 GHz	-39.10 dBm	-26.10 dB
3	3	3.6590 GHz	3.6600 GHz	390.0 kHz	3.659000000 GHz	-42.69 dBm	-29.69 dB
4	4	3.6600 GHz	3.7000 GHz	1.000 MHz	3.692400000 GHz	4.858 dBm	-20.14 dB
5	5	3.7000 GHz	3.7010 GHz	390.0 kHz	3.700000000 GHz	-44.33 dBm	-31.33 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-40.82 dBm	-27.82 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.711800000 GHz	-44.74 dBm	-19.74 dB
8	8	3.7200 GHz	3.7600 GHz	1.000 MHz	3.720400000 GHz	-46.43 dBm	-6.428 dB

Plot 7.228. Conducted Band Edge Plot (40MHz, QPSK, High Channel, ANT2)

7.9 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into a 50 ohm load. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points ≥ 2 x span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

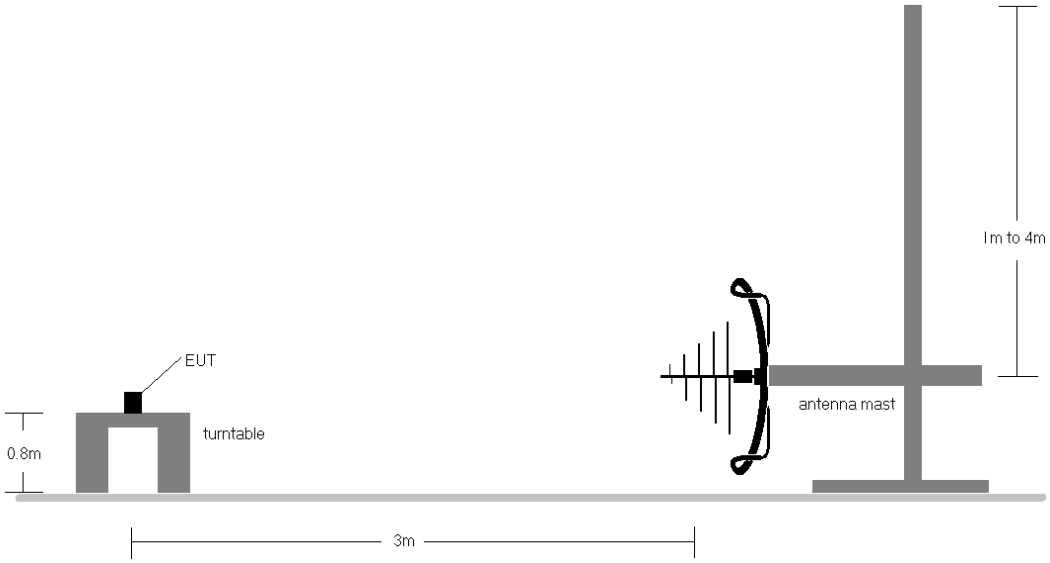


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

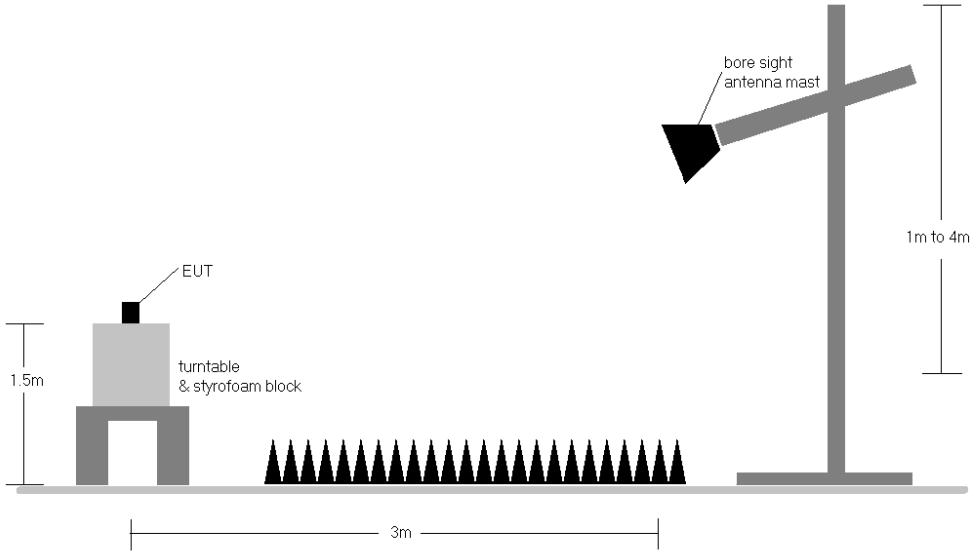


Figure 7-9. Test Instrument & Measurement Setup >1 GHz

Test Notes

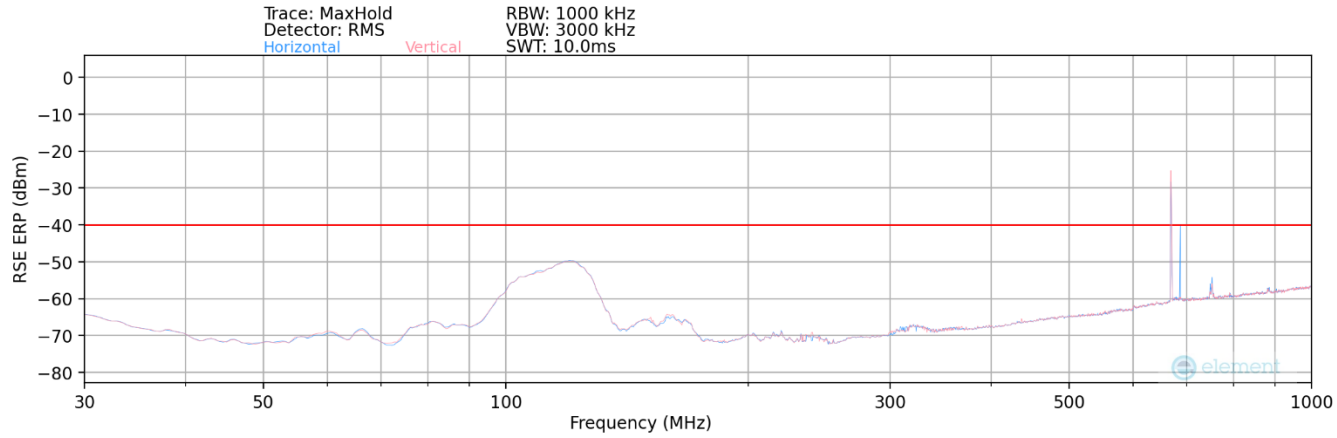
1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
   a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
   b) EIRP (dBm) = E(dBµV/m) + 20logD – 104.8; where D is the measurement distance in meters.

2) The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.

3) The spectrum is measured from 30MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.

4) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

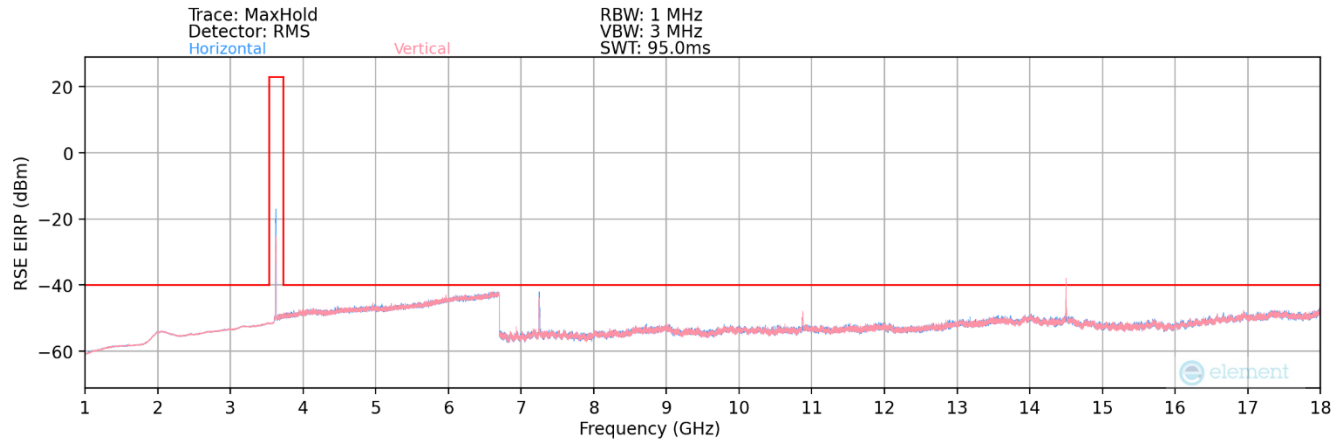


Plot 7.229. Radiated Spurious Plot 30MHz-1GHz

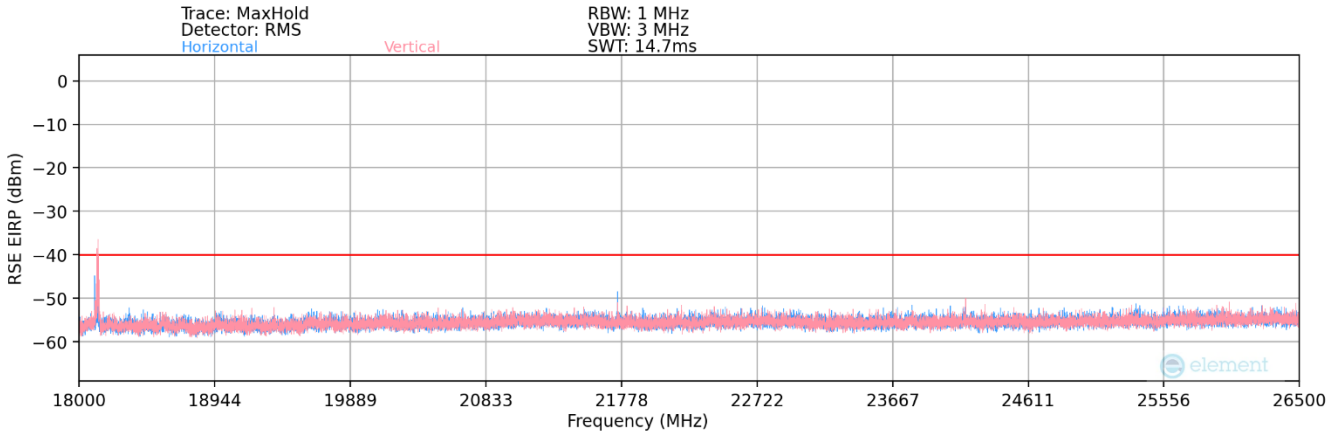
Bandwidth (MHz):	10
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
124.00	H	0	0	-81.98	20.54	45.56	-51.85	-40.00	-11.85
668.50	V	221	310	-78.61	28.52	56.91	-40.50	-40.00	-0.50
687.00	H	0	0	-81.23	28.76	54.53	-42.87	-40.00	-2.87
752.00	H	0	0	-86.61	29.16	49.55	-47.85	-40.00	-7.85

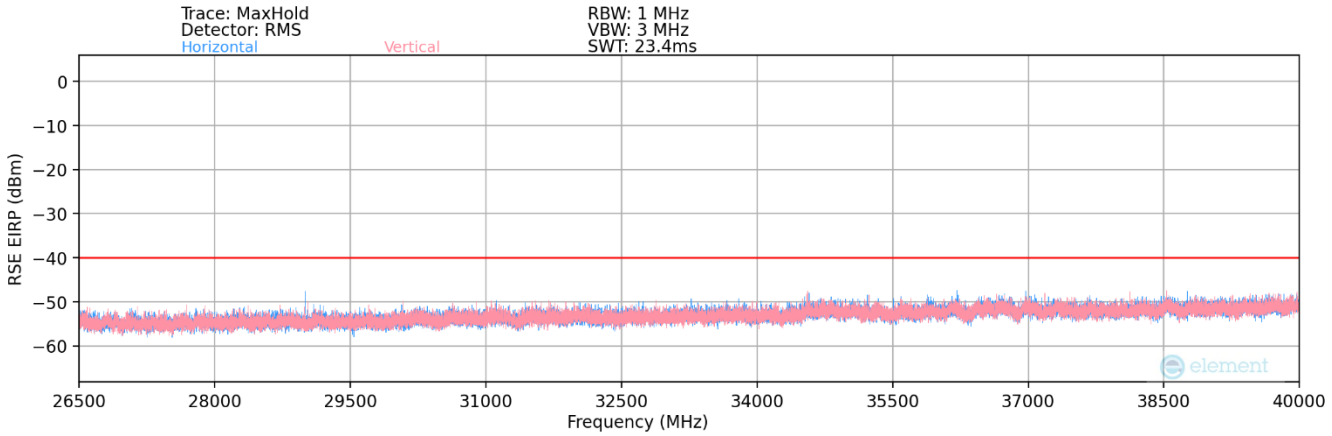
Table 7-9. Radiated Spurious Data 30MHz-1GHz - Mid Channel



Plot 7.230. Radiated Spurious Plot 1-18GHz – Mid Channel



Plot 7.231. Radiated Spurious Plot 18-26.5GHz



Plot 7.232. Radiated Spurious Plot 26.5-40GHz

Bandwidth (MHz):	10
Frequency (MHz):	3555.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7110.00	V	329	35	-70.57	4.66	41.09	-54.17	-40.00	-14.17
10665.00	V	310	31	-77.95	8.56	37.61	-57.65	-40.00	-17.65
14220.00	V	296	6	-63.37	11.12	54.75	-40.51	-40.00	-0.51
17775.00	V	-	-	-81.49	10.61	36.12	-59.13	-40.00	-19.13
21330.00	H	-	12	-52.32	3.57	58.25	-46.55	-40.00	-6.55
24885.00	H	-	-	-57.83	3.72	52.89	-51.91	-40.00	-11.91
28440.00	H	-	-	-57.67	4.76	54.09	-50.71	-40.00	-10.71
31995.00	H	-	-	-57.44	7.03	56.59	-48.21	-40.00	-8.21

Table 7-10. Radiated Spurious Data – Low Channel

Bandwidth (MHz):	10
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	V	329	35	-62.89	5.09	49.20	-46.06	-40.00	-6.06
10875.00	V	204	326	-75.68	8.60	39.92	-55.34	-40.00	-15.34
14500.00	V	252	314	-62.97	10.60	54.63	-40.63	-40.00	-0.63
18125.00	V	150	282	-45.69	1.16	62.47	-42.33	-40.00	-2.33
21750.00	H	150	262	-50.36	3.49	60.13	-44.67	-40.00	-4.67
25375.00	H	-	-	-53.88	3.84	56.97	-47.83	-40.00	-7.83
29000.00	H	150	57	-52.22	4.94	59.72	-45.08	-40.00	-5.08
32625.00	H	-	-	-54.07	6.28	59.21	-45.59	-40.00	-5.59

Table 7-11. Radiated Spurious Data – Mid Channel

Bandwidth (MHz):	10
Frequency (MHz):	3695.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7390.00	V	308	283	-69.05	4.99	42.94	-52.31	-40.00	-12.31
11085.00	V	143	329	-75.45	8.50	40.05	-55.21	-40.00	-15.21
14780.00	V	197	31	-66.36	9.50	50.14	-45.12	-40.00	-5.12
18475.00	V	150	357	-45.78	1.30	62.52	-42.28	-40.00	-2.28
22170.00	H	150	258	-50.76	3.46	59.70	-45.10	-40.00	-5.10
25865.00	H	-	-	-55.31	4.09	55.78	-49.02	-40.00	-9.02
29560.00	H	150	60	-56.01	5.23	56.22	-48.58	-40.00	-8.58
33255.00	H	-	-	-56.78	6.99	57.21	-47.59	-40.00	-7.59

Table 7-12. Radiated Spurious Data – High Channel

7.10 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

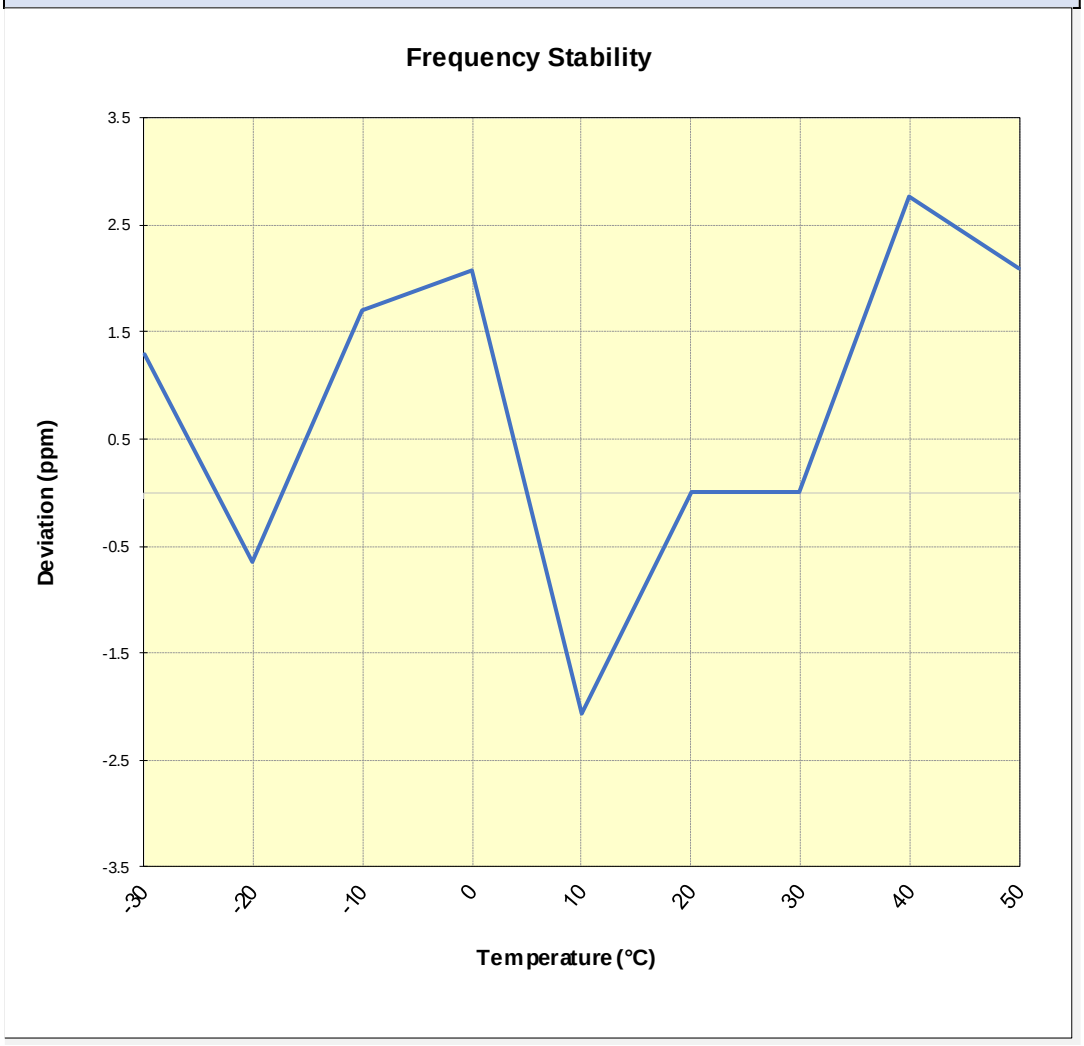
Band 48

Operating Frequency (Hz):	3,625,000,000
Ref. Voltage (VAC):	120.00

Voltage (%)	Power (VAC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	120.00	- 30	3,624,997,165	4,664	0.0001287
		- 20	3,624,990,156	-2,345	-0.0000647
		- 10	3,624,998,656	6,155	0.0001698
		0	3,625,000,007	7,506	0.0002071
		+ 10	3,624,985,000	-7,501	-0.0002069
		+ 20 (Ref)	3,624,992,501	0	0.0000000
		+ 30	3,624,992,541	40	0.0000011
		+ 40	3,625,002,567	10,066	0.0002777
		+ 50	3,625,000,081	7,580	0.0002091
85 %	102.00	+ 20	3,625,001,562	9,061	0.0002500
115 %	138.00	+ 20	3,624,998,215	5,714	0.0001576

Table 7-13. Frequency Stability Data

Band 48



Plot 7.233. Frequency Stability Chart

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Skylark Wireless, LLC CBRS CPE FCC ID: 2AS22-FLCOCH2** complies with all of the Category B CBSD requirements of Part 96 of the FCC Rules for Band 48 operation only.