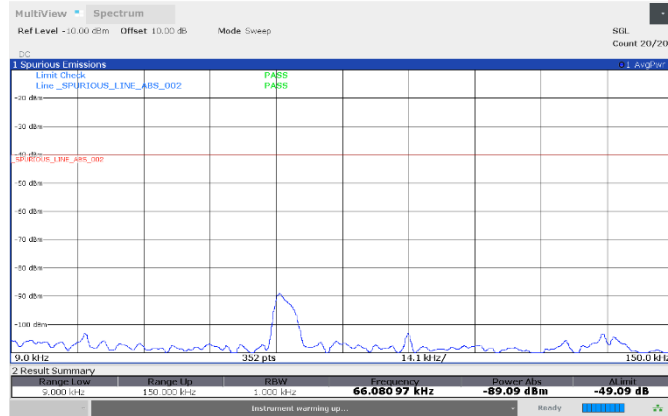


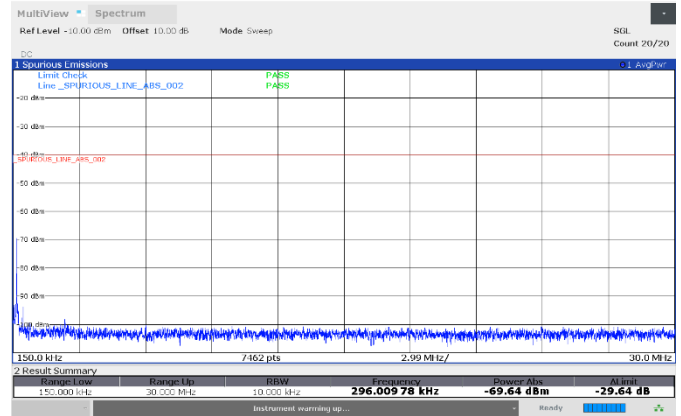
Operating frequency band: Band 48: 3650 – 3700 MHz

Input signal = lowest channel within the frequency block; narrowband:

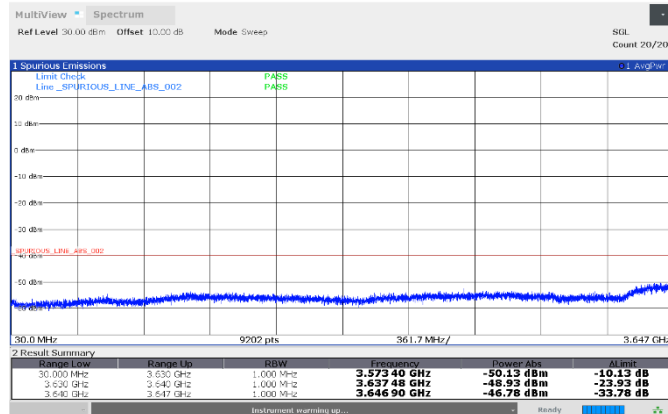
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, NB



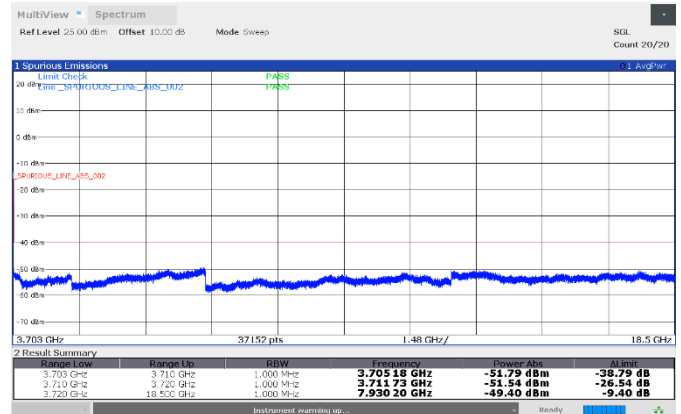
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, NB



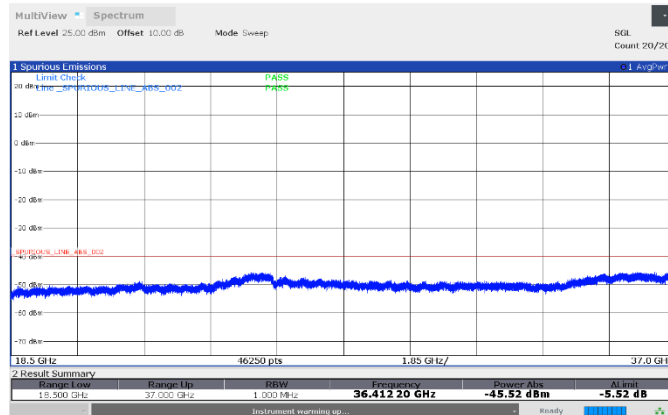
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, NB



Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, NB

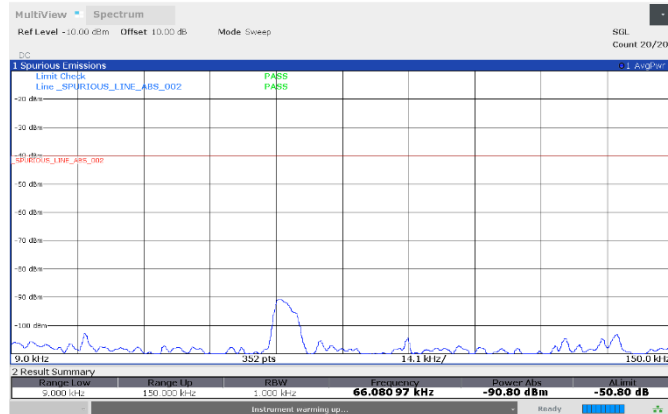


Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, NB

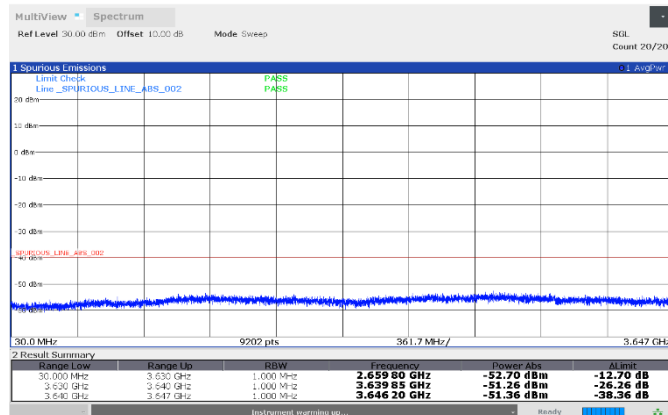


Input signal = middle channel within the frequency block; narrowband:

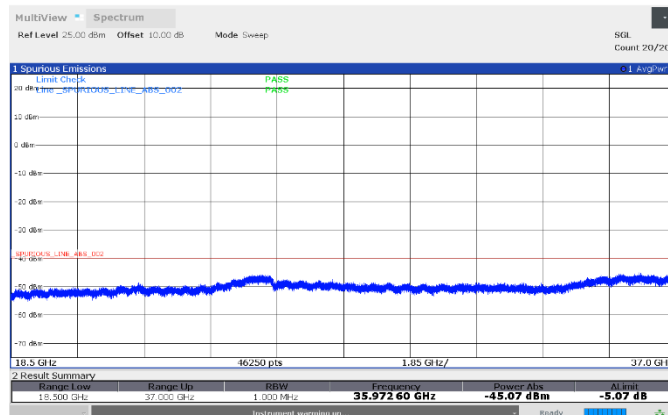
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, NB



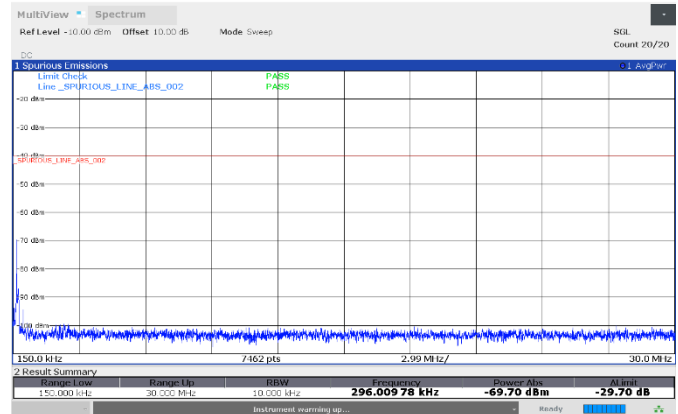
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, NB



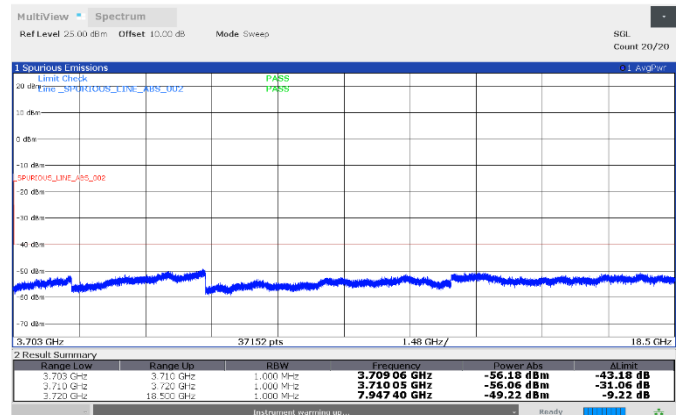
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, NB



Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, NB

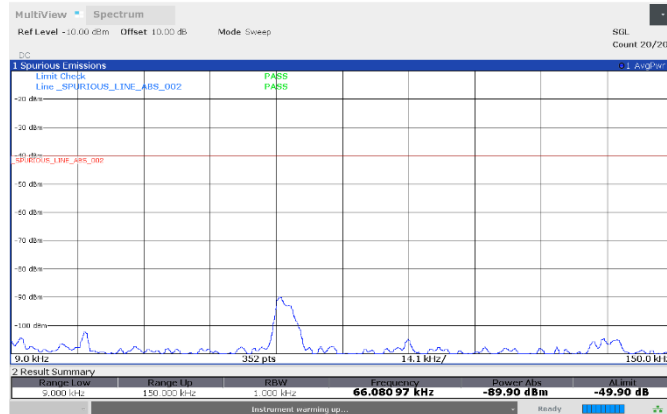


Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, NB

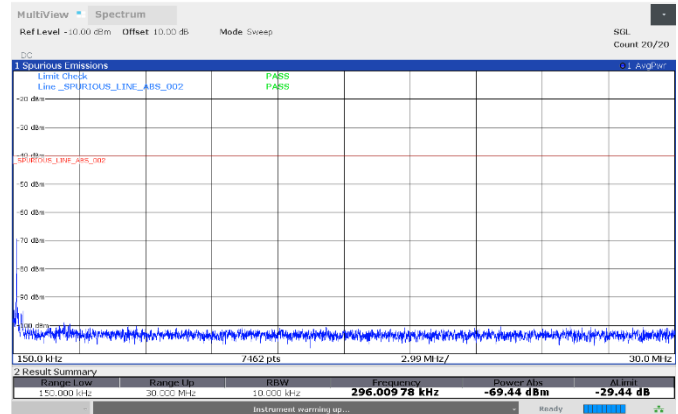


Input signal = highest channel within the frequency block; narrowband:

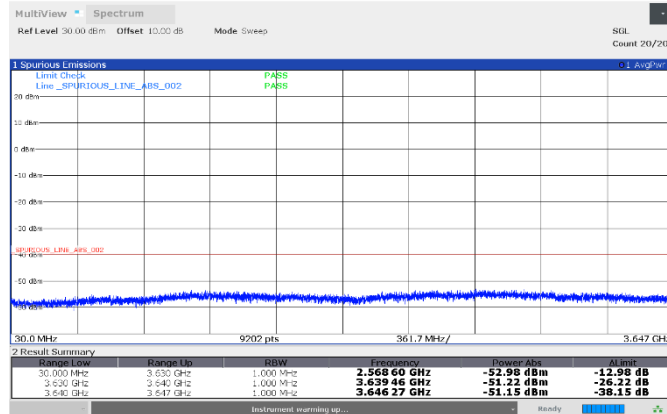
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, NB



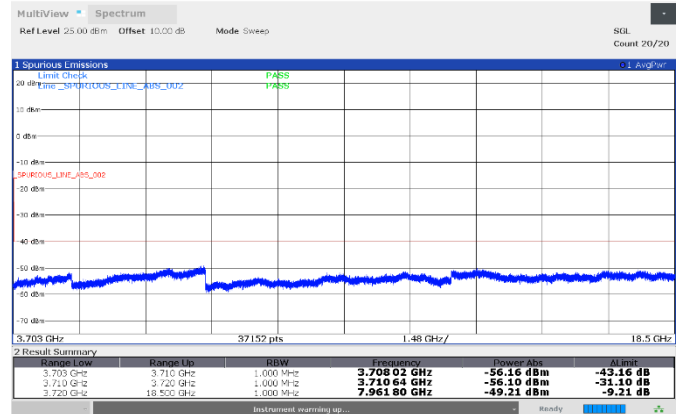
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, NB



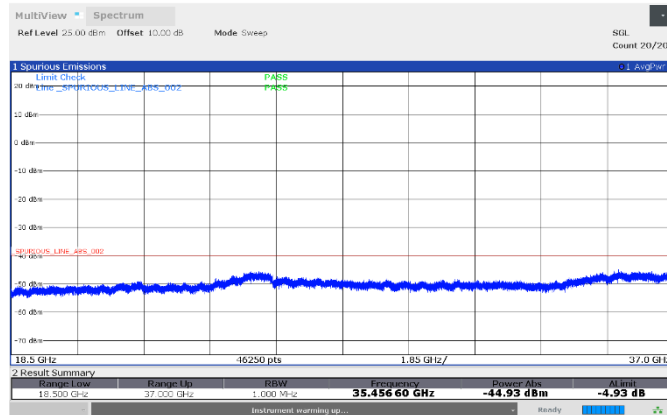
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, NB



Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, NB

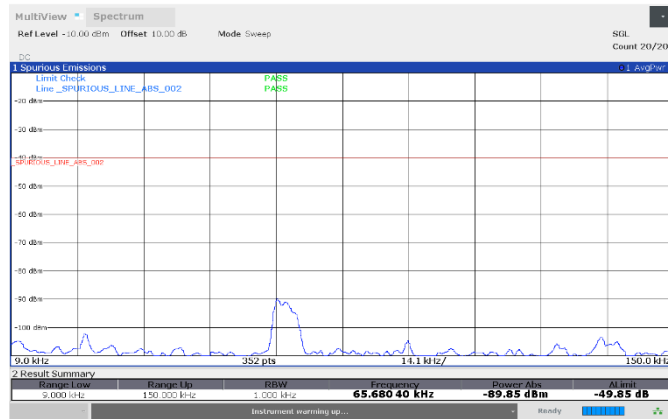


Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, NB

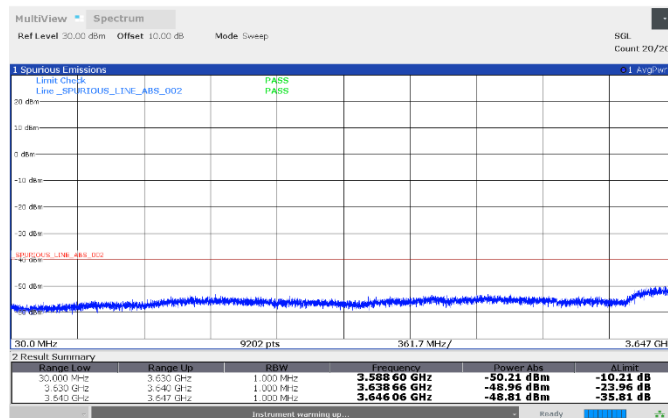


Input signal = **lowest channel** within the frequency block; **broadband**:

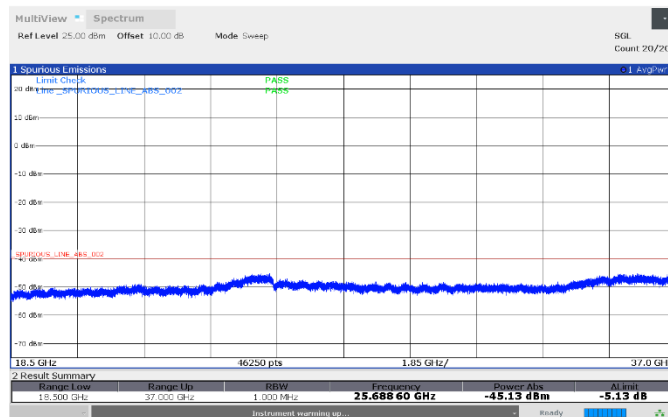
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, BB



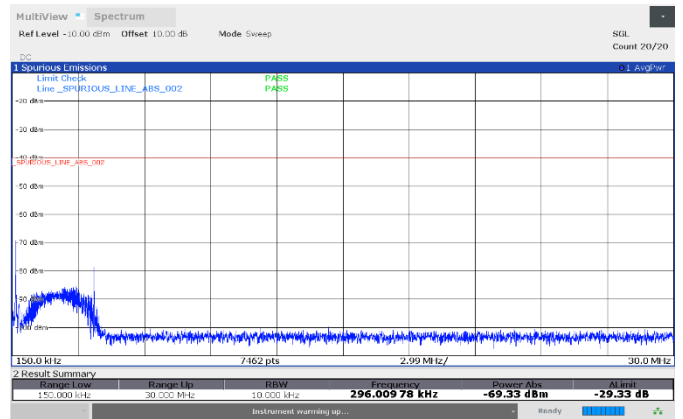
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, BB



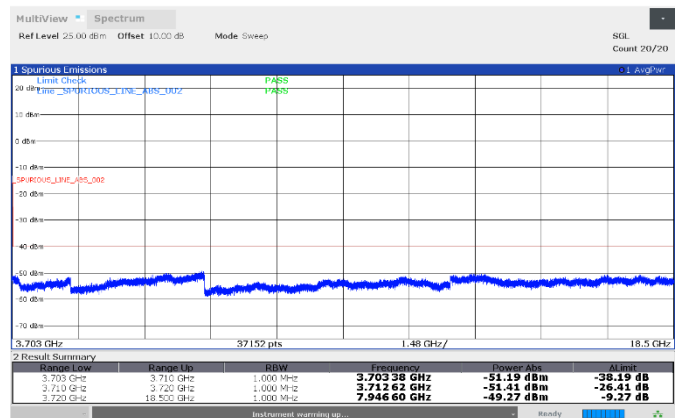
Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, BB



Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, BB

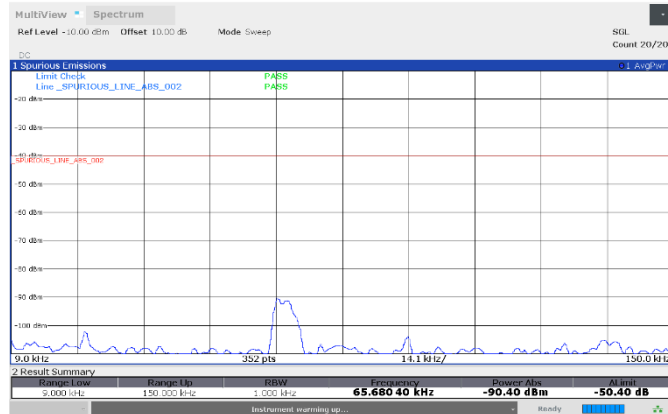


Conducted Spurious Emissions, Wanted signal at low band edge, level = AGC - 0.5 dB, BB

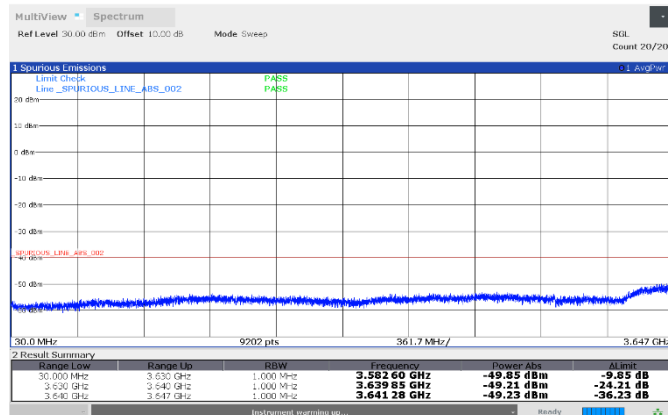


Input signal = middle channel within the frequency block; broadband:

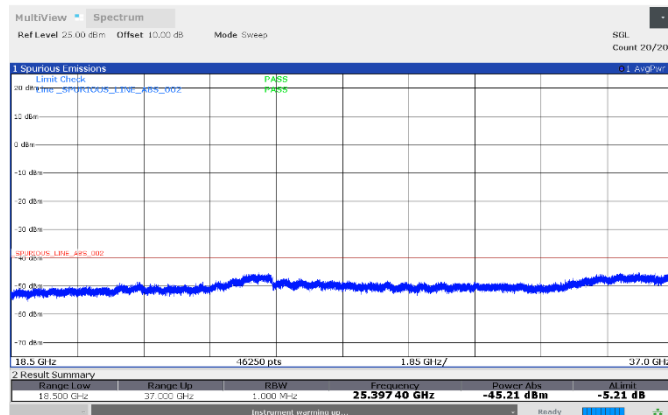
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, BB



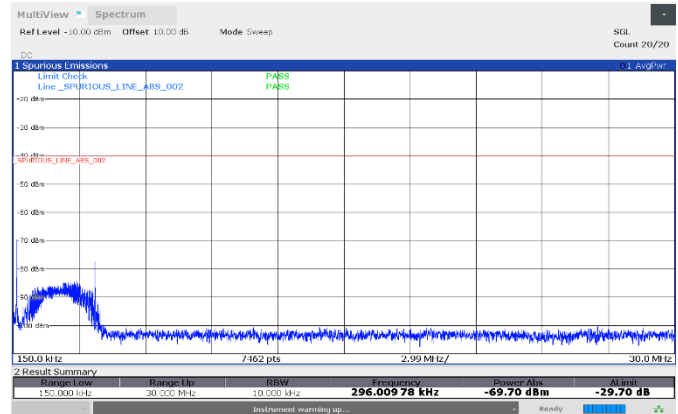
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, BB



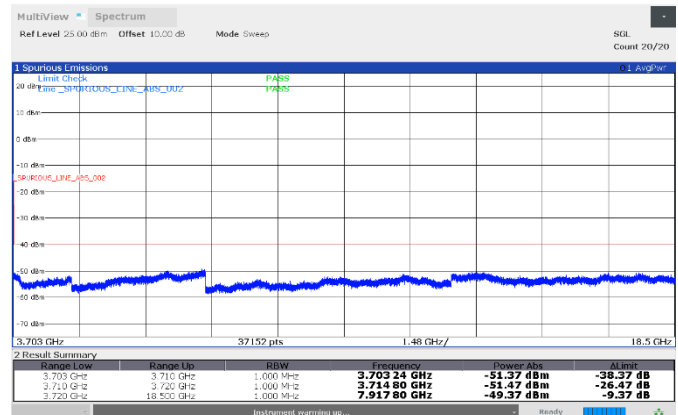
Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, BB



Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, BB

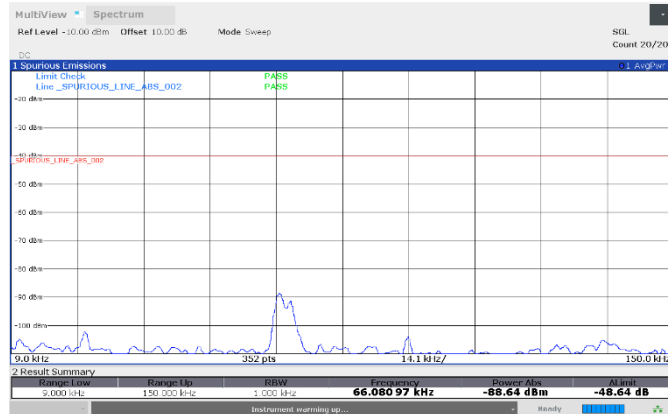


Conducted Spurious Emissions, Wanted signal at middle channel, level = AGC - 0.5 dB, BB

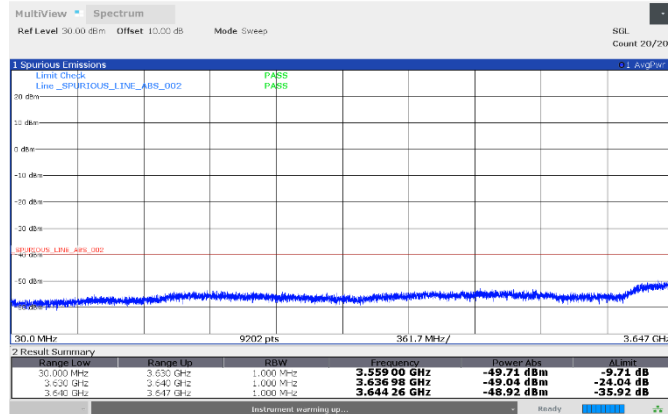


Input signal = highest channel within the frequency block; broadband:

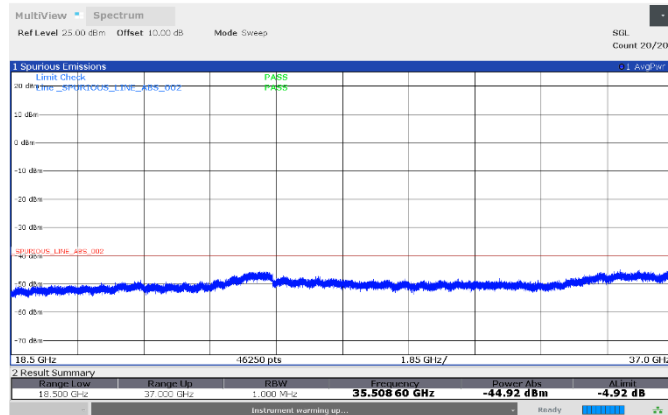
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, BB



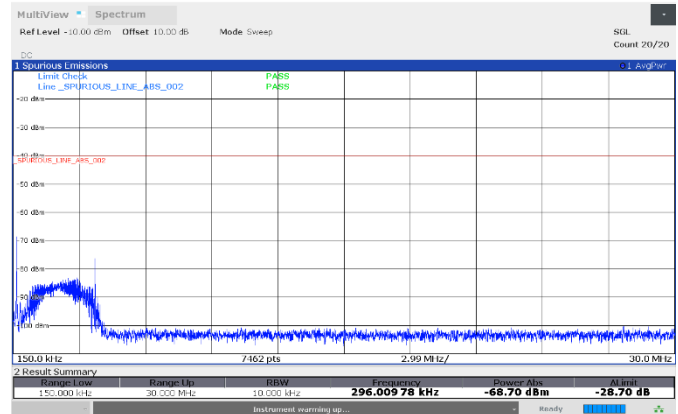
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, BB



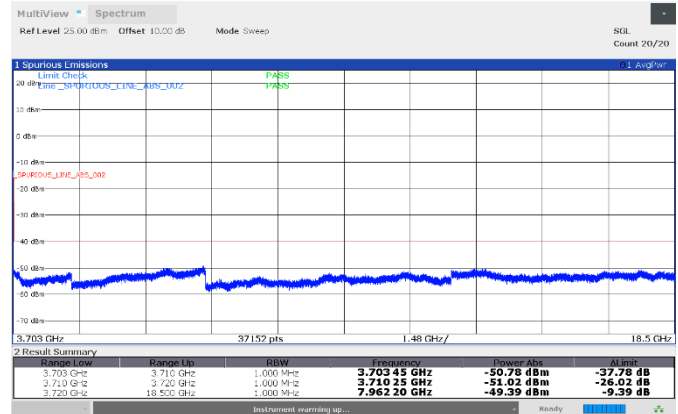
Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, BB



Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, BB



Conducted Spurious Emissions, Wanted signal at high band edge, level = AGC - 0.5 dB, BB



8.6 Radiated spurious emissions

8.6.1 References and limits

- FCC Part 96.41(e) (Band 48 operation)
- ANSI C63.26 Clause 7.2.2.5
- KDB 935210 D05v01r04 Clause 3.8

8.6.2 Test summary

Verdict	Pass		
Test date	June 9, 2026 June 26, 2026	Temperature	22 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1009 mbar
Test location	☒ 10m semi anechoic chamber ☐ 3m semi anechoic chamber ☐ Other:	Relative humidity	59 %

8.6.3 Notes

Testing was performed with a narrowband test signal (MSK modulated, gaussian filter of 0.3 and data rate 270 kbps) and a broadband signal (AWGN, 4.1 MHz 99% occupied bandwidth) on lowest, middle, and highest channels of each supported frequency band.

8.6.4 Setup details

EUT power input during test	48 VDC
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:

8.6.5 Test data

Operating frequency band: Band 48: 3550 – 3650 MHz

Full Spectrum

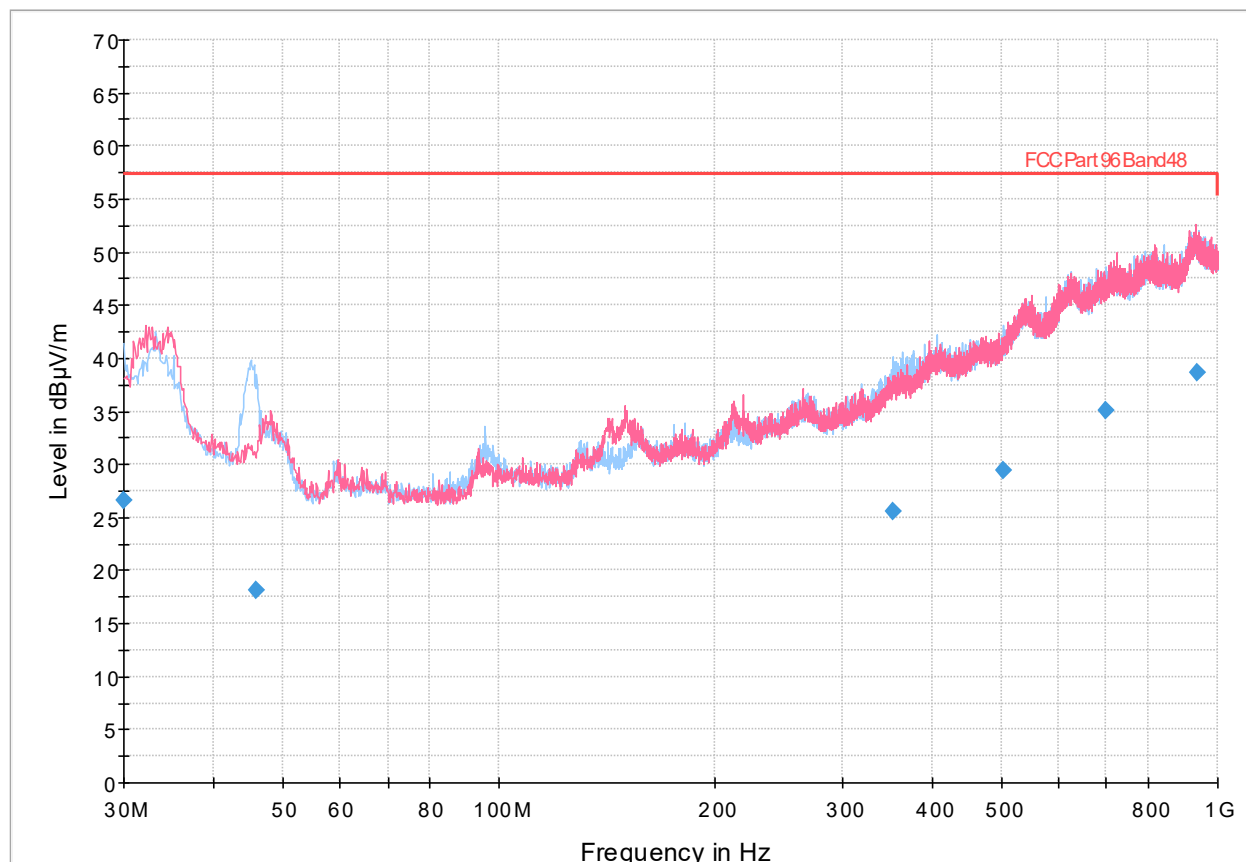


Figure 8.6-1: Radiated emissions spectral plot (30 MHz – 1000 MHz) – Low channel 3550 MHz

Table 8.6-1: Radiated emissions results

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	26.67	57.38	30.71	5000.0	1000.000	133.0	V	78.0	22.8
45.856250	18.13	57.38	39.25	5000.0	1000.000	268.0	H	30.0	14.6
352.618250	25.64	57.38	31.74	5000.0	1000.000	111.0	H	168.0	23.7
502.333000	29.37	57.38	28.01	5000.0	1000.000	386.0	V	98.0	27.2
697.258000	35.12	57.38	22.26	5000.0	1000.000	243.0	H	330.0	31.8
937.555750	38.72	57.38	18.66	5000.0	1000.000	239.0	V	136.0	35.2

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

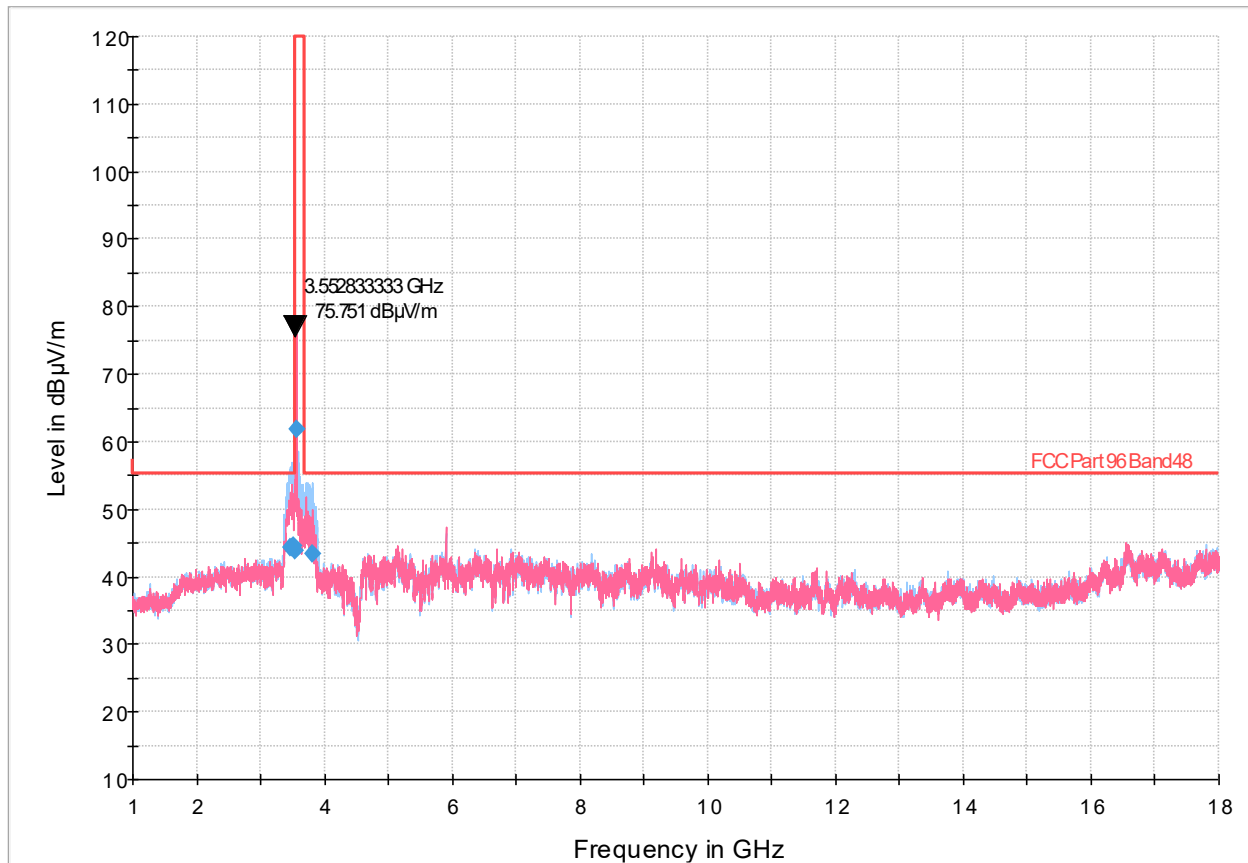


Figure 8.6-2: Radiated emissions spectral plot (1 GHz - 18 GHz) – Low channel 3550 MHz

Table 8.6-2: Radiated emissions results

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3469.002944	44.37	55.23	10.86	5000.0	1000.000	254.0	H	304.0	-6.6
3488.732778	44.43	55.23	10.80	5000.0	1000.000	227.0	H	306.0	-6.6
3508.214556	44.54	55.23	10.69	5000.0	1000.000	210.0	H	314.0	-6.5
3541.709944	43.91	55.23	11.32	5000.0	1000.000	209.0	H	317.0	-6.3
3562.946500	61.94	120.00	58.06	5000.0	1000.000	133.0	H	316.0	-6.2
3805.319778	43.37	55.23	11.86	5000.0	1000.000	129.0	H	310.0	-5.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

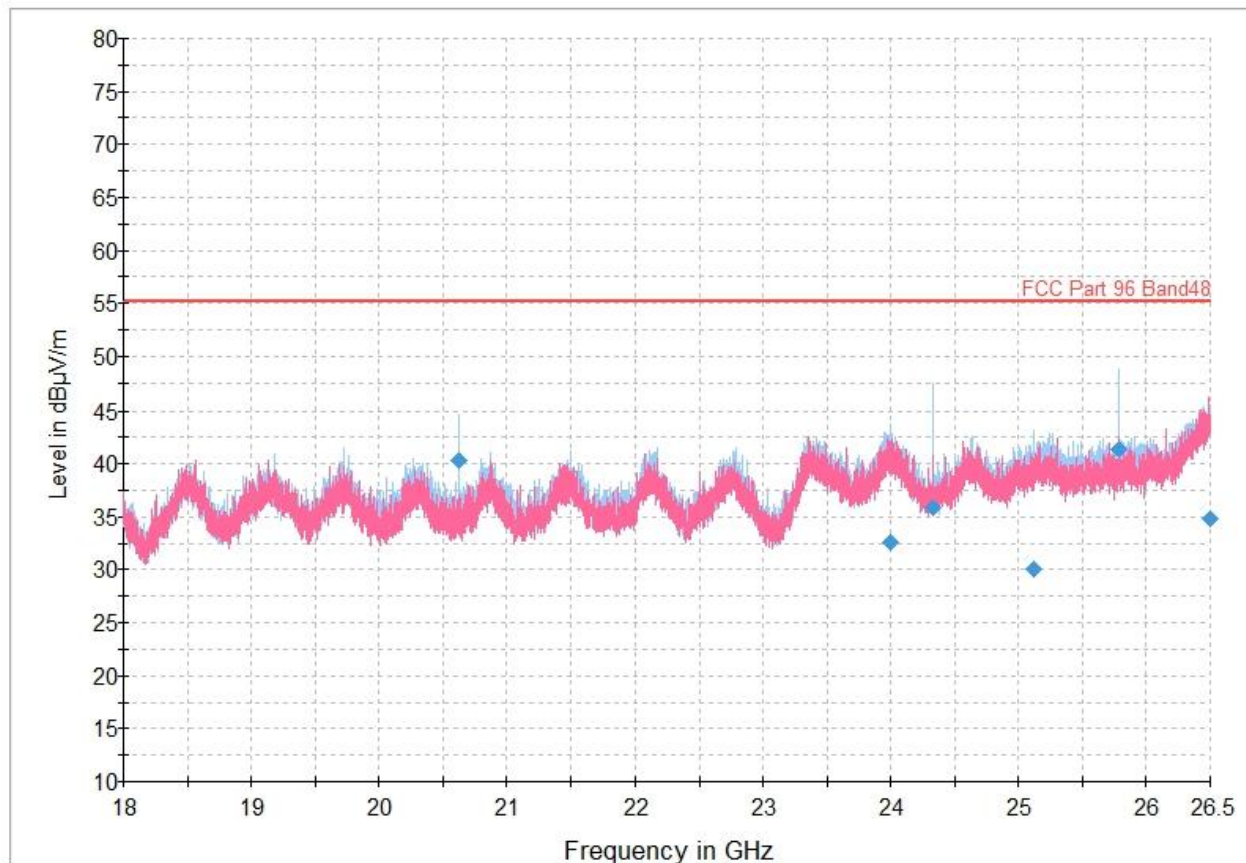


Figure 8.6-3: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – Low channel 3550 MHz

Table 8.6-3: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20625.737500	40.27	55.23	14.96	5000.0	1000.000	112.0	H	17.0	15.9
23998.337500	32.59	55.23	22.64	5000.0	1000.000	197.0	H	345.0	21.6
24330.143750	35.87	55.23	19.36	5000.0	1000.000	148.0	H	213.0	20.7
25116.256250	30.02	55.23	25.21	5000.0	1000.000	208.0	H	127.0	21.0
25781.218750	41.31	55.23	13.92	5000.0	1000.000	103.0	H	227.0	21.2
26495.262500	34.86	55.23	20.37	5000.0	1000.000	103.0	V	66.0	24.6

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

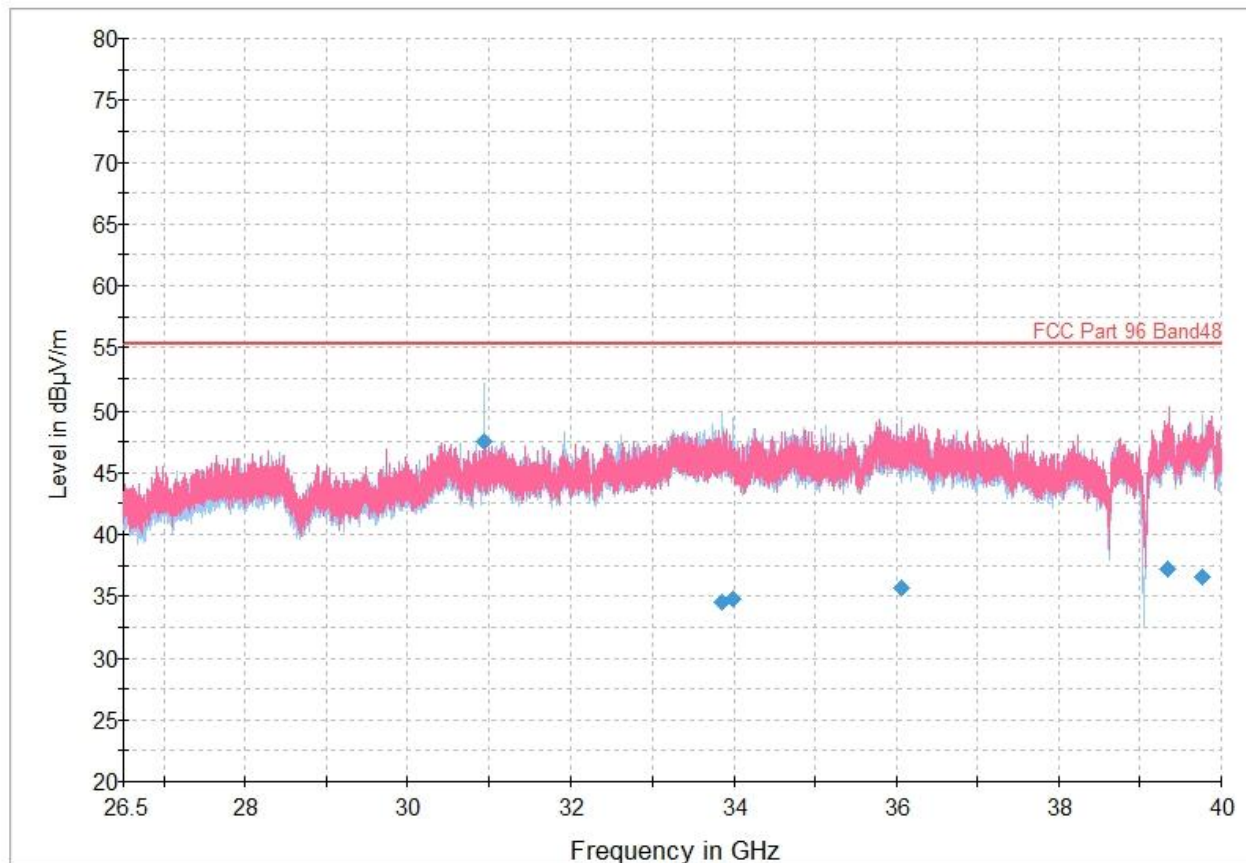


Figure 8.6-4: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – Low channel 3550 MHz

Table 8.6-4: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30938.500000	47.54	55.23	7.69	5000.0	1000.000	112.0	H	22.0	8.0
33851.650000	34.52	55.23	20.71	5000.0	1000.000	175.0	H	304.0	9.0
33981.850000	34.82	55.23	20.41	5000.0	1000.000	164.0	H	230.0	9.0
36056.200000	35.69	55.23	19.54	5000.0	1000.000	175.0	H	300.0	10.5
39349.600000	37.25	55.23	17.98	5000.0	1000.000	140.0	V	259.0	10.6
39760.150000	36.62	55.23	18.61	5000.0	1000.000	153.0	H	63.0	11.7

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

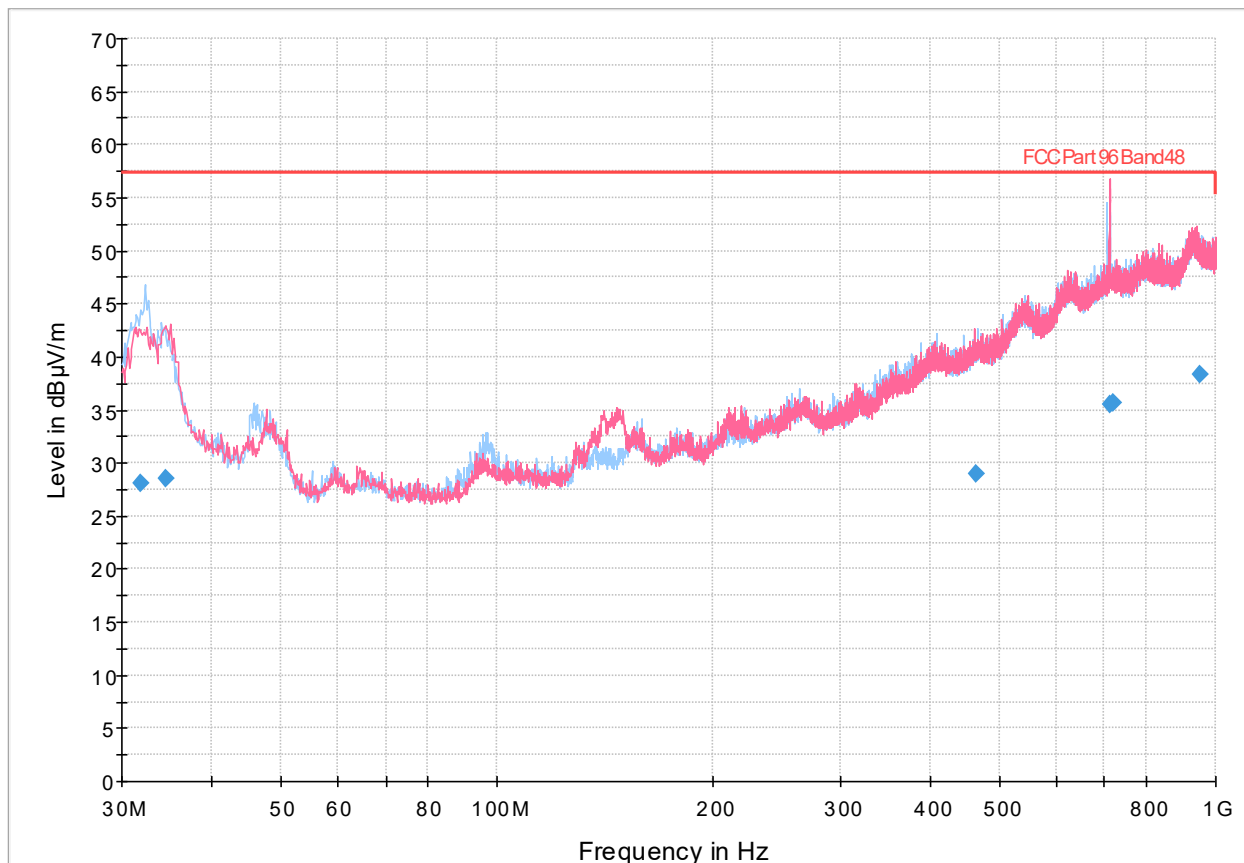


Figure 8.6-5: Radiated emissions spectral plot (30 MHz – 1000 MHz) – Mid channel 3625 MHz

Table 8.6-5: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.900000	28.13	57.38	29.25	5000.0	1000.000	129.0	H	232.0	22.0
34.600000	28.60	57.38	28.78	5000.0	1000.000	178.0	V	189.0	20.3
465.020500	28.95	57.38	28.43	5000.0	1000.000	115.0	H	264.0	26.9
712.464500	35.52	57.38	21.86	5000.0	1000.000	272.0	H	118.0	32.1
720.071250	35.70	57.38	21.68	5000.0	1000.000	330.0	V	259.0	32.3
949.548750	38.34	57.38	19.04	5000.0	1000.000	354.0	V	81.0	34.7

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

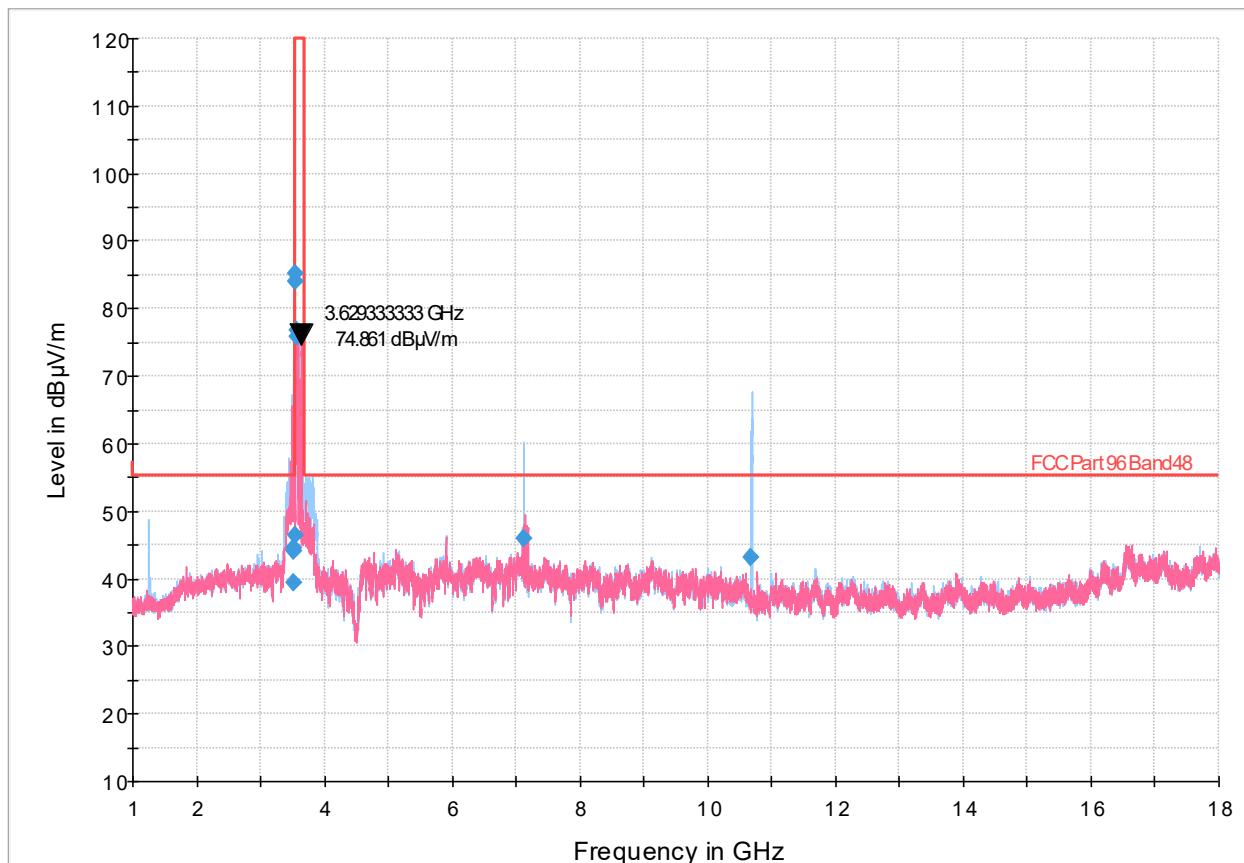


Figure 8.6-6: Radiated emissions spectral plot (1 GHz - 18 GHz) – Mid channel 3625 MHz

Table 8.6-6: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3505.687556	44.21	55.23	11.02	5000.0	1000.000	148.0	H	311.0	-6.5
3508.028667	44.46	55.23	10.77	5000.0	1000.000	118.0	H	306.0	-6.5
3508.496222	39.47	55.23	15.76	5000.0	1000.000	113.0	V	353.0	-6.5
3535.634444	46.48	55.23	8.75	5000.0	1000.000	223.0	H	305.0	-6.4
3552.638000	84.03	120.00	35.97	5000.0	1000.000	194.0	H	312.0	-6.3
3553.646833	85.30	120.00	34.70	5000.0	1000.000	225.0	H	308.0	-6.3
3558.402556	76.78	120.00	43.22	5000.0	1000.000	181.0	H	300.0	-6.2
3558.645778	75.77	120.00	44.23	5000.0	1000.000	100.0	H	304.0	-6.2
7118.859278	45.90	55.23	9.33	5000.0	1000.000	135.0	H	312.0	-0.7
10680.312611	43.17	55.23	12.06	5000.0	1000.000	191.0	H	314.0	2.4

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

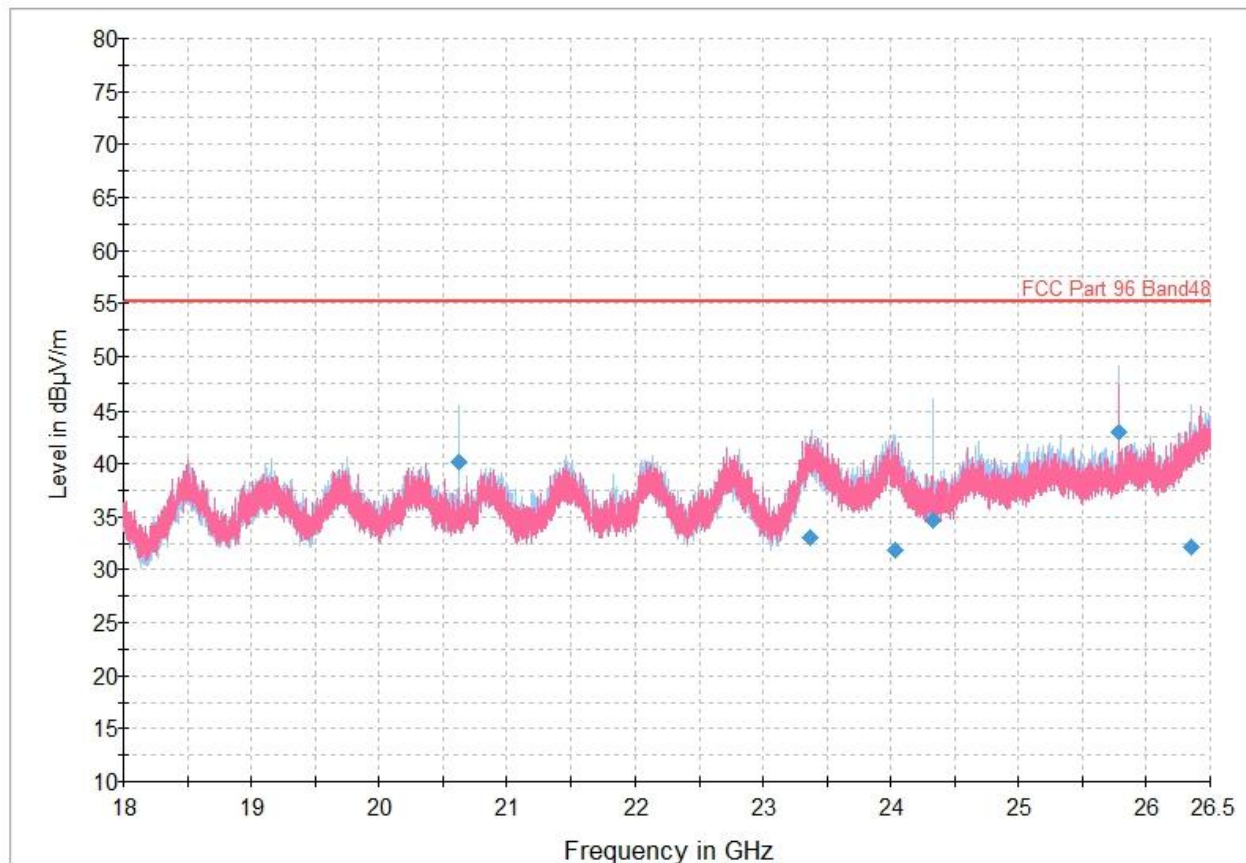


Figure 8.6-7: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – Mid channel 3625 MHz

Table 8.6-7: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20625.737500	40.15	55.23	15.08	5000.0	1000.000	103.0	H	17.0	15.9
23362.887500	33.01	55.23	22.22	5000.0	1000.000	397.0	H	38.0	21.9
24031.237500	31.86	55.23	23.37	5000.0	1000.000	205.0	H	50.0	21.6
24330.375000	34.65	55.23	20.58	5000.0	1000.000	128.0	H	222.0	20.7
25781.218750	42.98	55.23	12.25	5000.0	1000.000	103.0	H	228.0	21.2
26350.281250	32.11	55.23	23.12	5000.0	1000.000	328.0	H	0.0	23.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

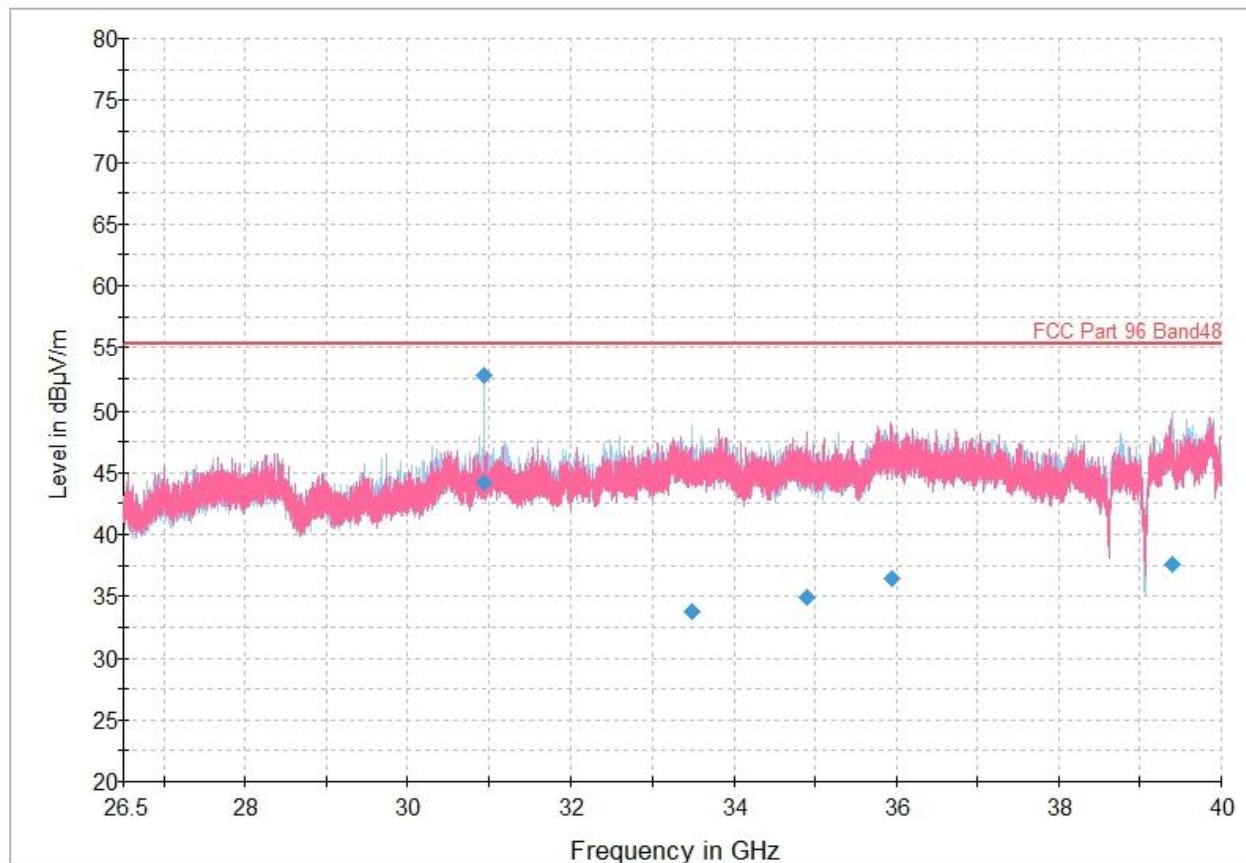


Figure 8.6-8: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – Mid channel 3625 MHz

Table 8.6-8: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30938.500000	52.70	55.23	2.53	5000.0	1000.000	103.0	H	10.0	8.0
30938.800000	44.24	55.23	10.99	5000.0	1000.000	103.0	H	24.0	8.0
33481.600000	33.71	55.23	21.52	5000.0	1000.000	112.0	H	230.0	8.8
34892.800000	34.95	55.23	20.28	5000.0	1000.000	157.0	V	275.0	9.6
35939.200000	36.41	55.23	18.82	5000.0	1000.000	157.0	V	332.0	10.6
39392.650000	37.52	55.23	17.71	5000.0	1000.000	163.0	H	300.0	10.6

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

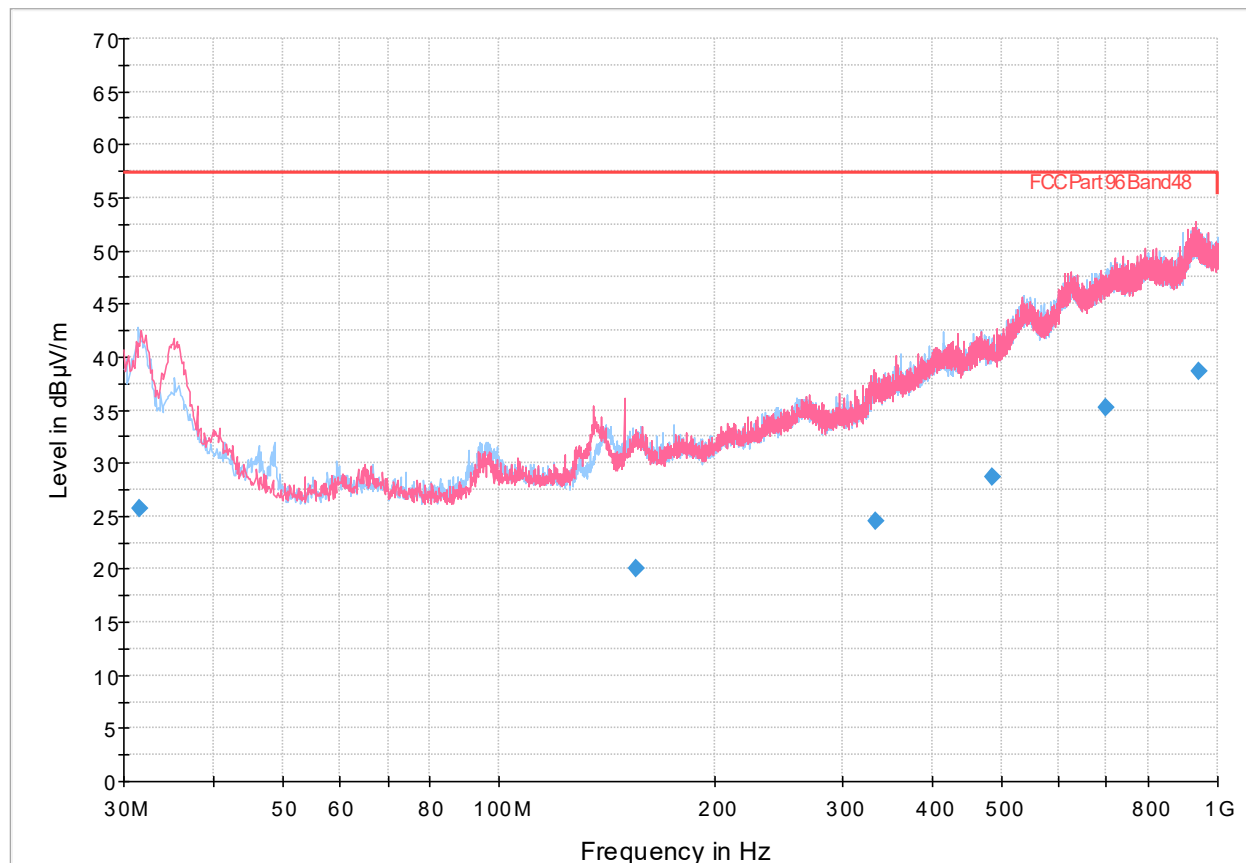


Figure 8.6-9: Radiated emissions spectral plot (30 MHz – 1000 MHz) – High channel 3650 MHz

Table 8.6-9: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.600000	25.65	57.38	31.73	5000.0	1000.000	111.0	H	0.0	22.1
155.331000	20.13	57.38	37.25	5000.0	1000.000	204.0	V	349.0	18.2
334.293250	24.55	57.38	32.83	5000.0	1000.000	112.0	V	235.0	22.1
486.621750	28.73	57.38	28.65	5000.0	1000.000	282.0	V	262.0	26.6
699.710500	35.17	57.38	22.21	5000.0	1000.000	271.0	H	242.0	31.8
940.666500	38.67	57.38	18.71	5000.0	1000.000	215.0	V	0.0	35.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

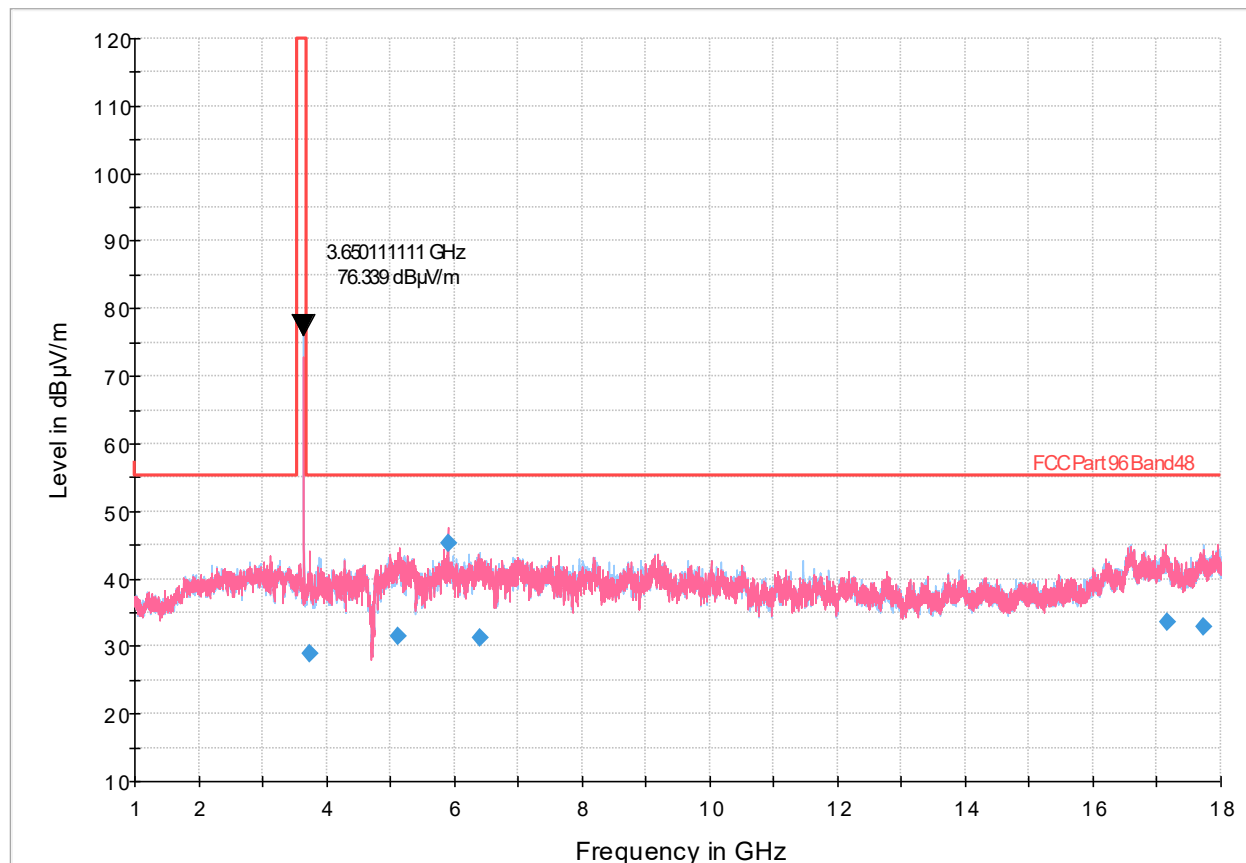


Figure 8.6-10: Radiated emissions spectral plot (1 GHz - 18 GHz) – High channel 3650 MHz

Table 8.6-10: Radiated emissions results

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3738.700333	28.93	55.23	26.30	5000.0	1000.000	314.0	V	55.0	-5.3
5119.796722	31.49	55.23	23.74	5000.0	1000.000	321.0	V	289.0	-2.8
5898.143333	45.30	55.23	9.93	5000.0	1000.000	118.0	V	0.0	-1.5
6404.630056	31.20	55.23	24.03	5000.0	1000.000	398.0	H	145.0	-0.3
17151.454944	33.54	55.23	21.69	5000.0	1000.000	332.0	V	329.0	12.4
17733.560556	32.89	55.23	22.34	5000.0	1000.000	201.0	H	66.0	11.7

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

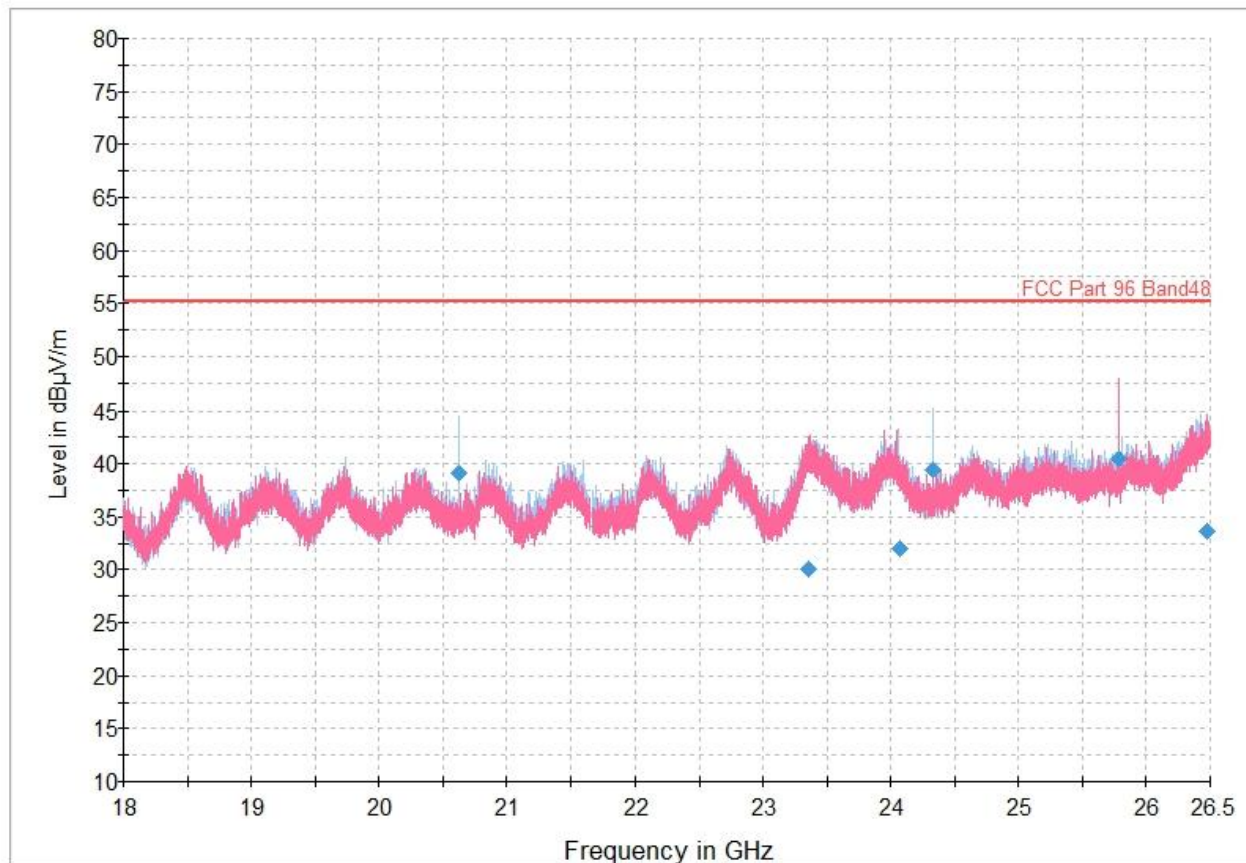


Figure 8.6-11: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – High channel 3650 MHz

Table 8.6-11: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20625.737500	39.06	55.23	16.17	5000.0	1000.000	103.0	H	16.0	15.9
23355.793750	30.09	55.23	25.14	5000.0	1000.000	198.0	V	224.0	21.9
24072.800000	32.00	55.23	23.23	5000.0	1000.000	201.0	H	43.0	21.5
24330.375000	39.47	55.23	15.76	5000.0	1000.000	103.0	H	209.0	20.7
25781.218750	40.41	55.23	14.82	5000.0	1000.000	103.0	V	216.0	21.2
26473.968750	33.59	55.23	21.64	5000.0	1000.000	157.0	V	317.0	24.4

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

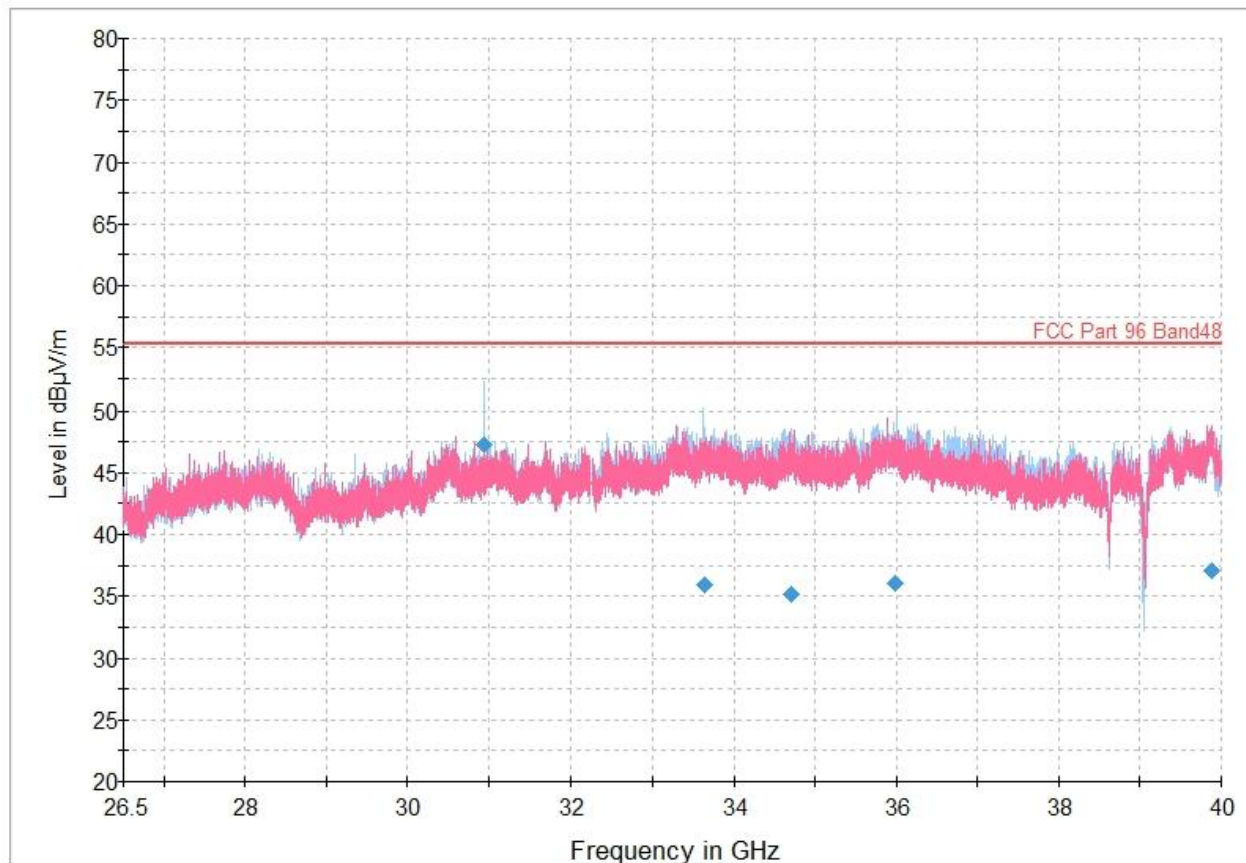


Figure 8.6-12: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – High channel 3650 MHz

Table 8.6-12: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30937.900000	47.20	55.23	8.03	5000.0	1000.000	103.0	H	10.0	8.0
30938.800000	47.32	55.23	7.91	5000.0	1000.000	103.0	H	23.0	8.0
33629.200000	35.94	55.23	19.29	5000.0	1000.000	175.0	H	30.0	9.0
34703.800000	35.14	55.23	20.09	5000.0	1000.000	189.0	H	260.0	9.8
35992.900000	36.08	55.23	19.15	5000.0	1000.000	164.0	H	0.0	10.5
39887.200000	37.10	55.23	18.13	5000.0	1000.000	225.0	V	0.0	12.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Operating frequency band: Band 48: 3650 – 3700 MHz

Full Spectrum

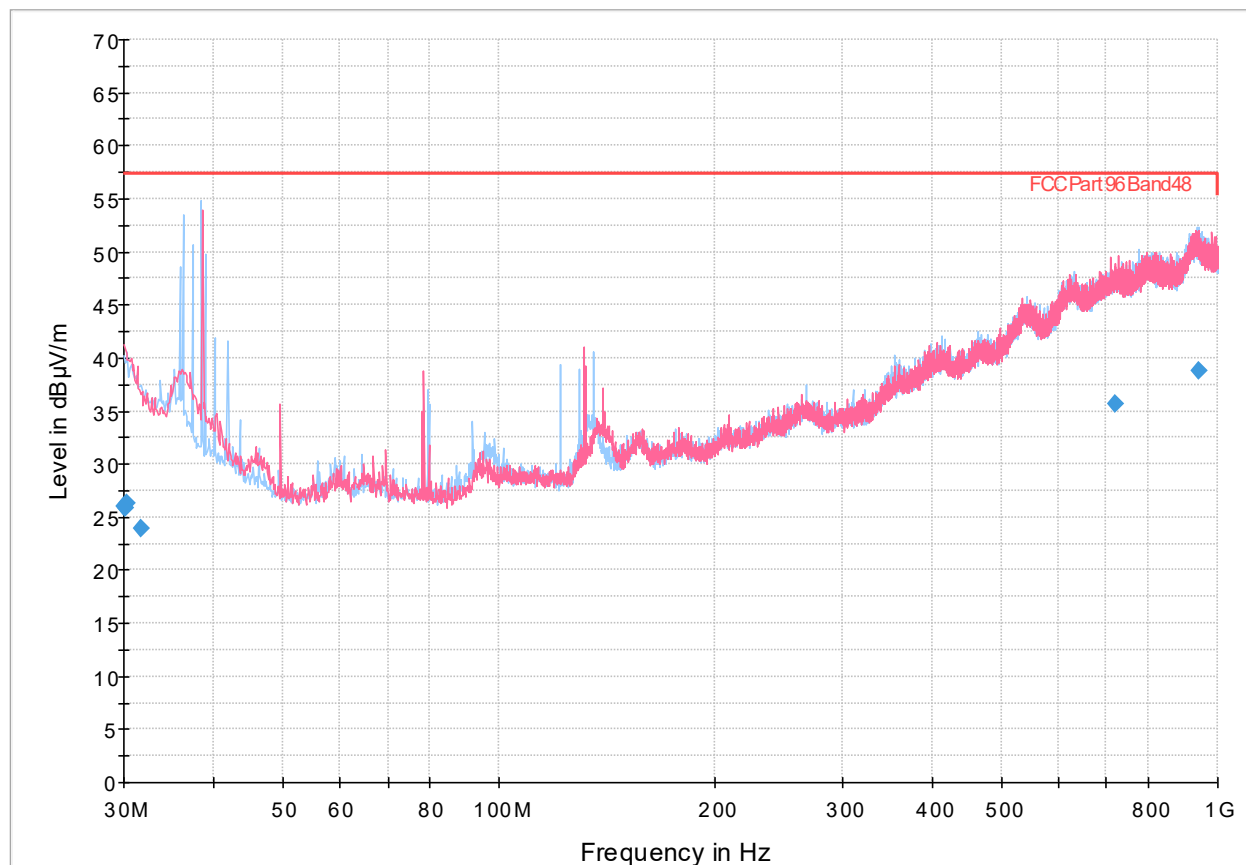


Figure 8.6-13: Radiated emissions spectral plot (30 MHz – 1000 MHz) – Low channel 3650 MHz

Table 8.6-13: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	26.07	57.38	31.31	5000.0	1000.000	115.0	H	249.0	22.8
30.100000	25.88	57.38	31.50	5000.0	1000.000	113.0	H	33.0	22.8
30.300000	26.36	57.38	31.02	5000.0	1000.000	112.0	H	270.0	22.7
31.682500	24.00	57.38	33.38	5000.0	1000.000	123.0	H	132.0	22.1
721.209000	35.65	57.38	21.73	5000.0	1000.000	291.0	V	122.0	32.2
938.796750	38.74	57.38	18.64	5000.0	1000.000	259.0	H	256.0	35.1

Notes: ¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)
² Correction factors = antenna factor ACF (dB) + cable loss (dB)
³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

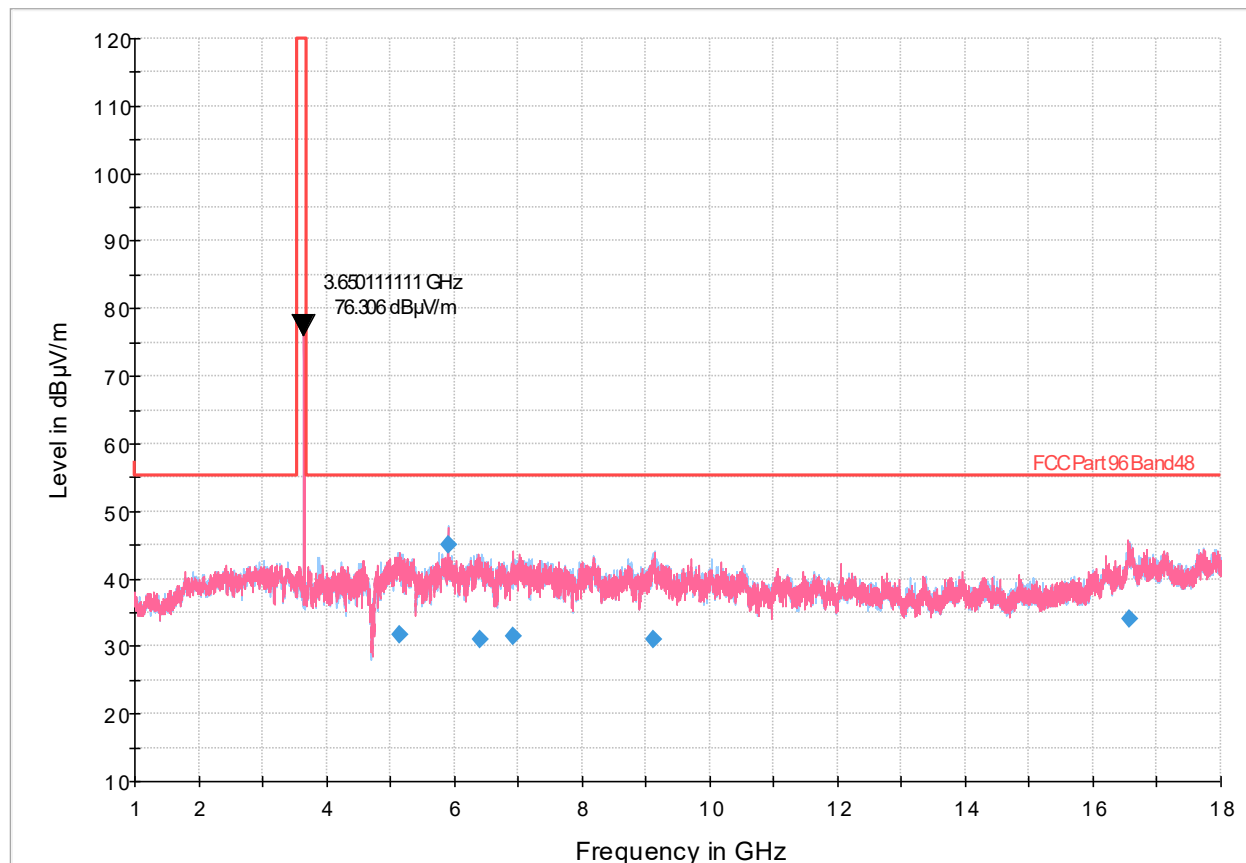


Figure 8.6-14: Radiated emissions spectral plot (1 GHz - 18 GHz) – Low channel 3650 MHz

Table 8.6-14: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5155.523278	31.76	55.23	23.47	5000.0	1000.000	375.0	V	101.0	-2.6
5898.143333	44.96	55.23	10.27	5000.0	1000.000	269.0	H	331.0	-1.5
6400.338389	30.97	55.23	24.26	5000.0	1000.000	410.0	H	179.0	-0.3
6926.697667	31.49	55.23	23.74	5000.0	1000.000	348.0	V	218.0	-0.5
9122.582278	31.12	55.23	24.11	5000.0	1000.000	277.0	H	334.0	1.7
16572.283444	34.01	55.23	21.22	5000.0	1000.000	267.0	V	20.0	12.7

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

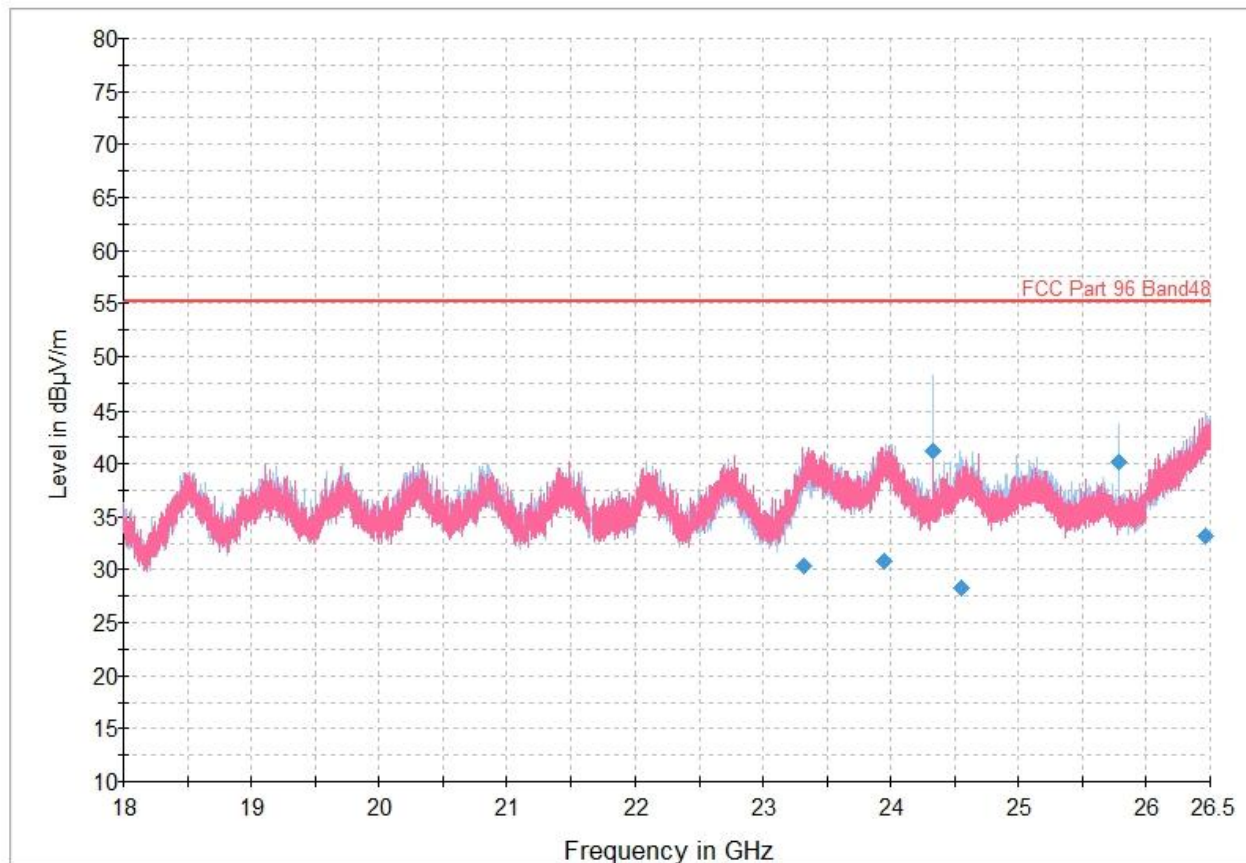


Figure 8.6-15: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – Low channel 3650 MHz

Table 8.6-15: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23316.693750	30.42	55.23	24.81	5000.0	1000.000	242.0	V	355.0	21.5
23949.431250	30.79	55.23	24.44	5000.0	1000.000	136.0	H	52.0	21.6
24330.075000	41.19	55.23	14.04	5000.0	1000.000	103.0	H	221.0	20.7
24546.612500	28.28	55.23	26.95	5000.0	1000.000	204.0	H	217.0	20.6
25781.150000	40.12	55.23	15.11	5000.0	1000.000	103.0	H	202.0	21.2
26463.025000	33.25	55.23	21.98	5000.0	1000.000	123.0	H	349.0	24.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

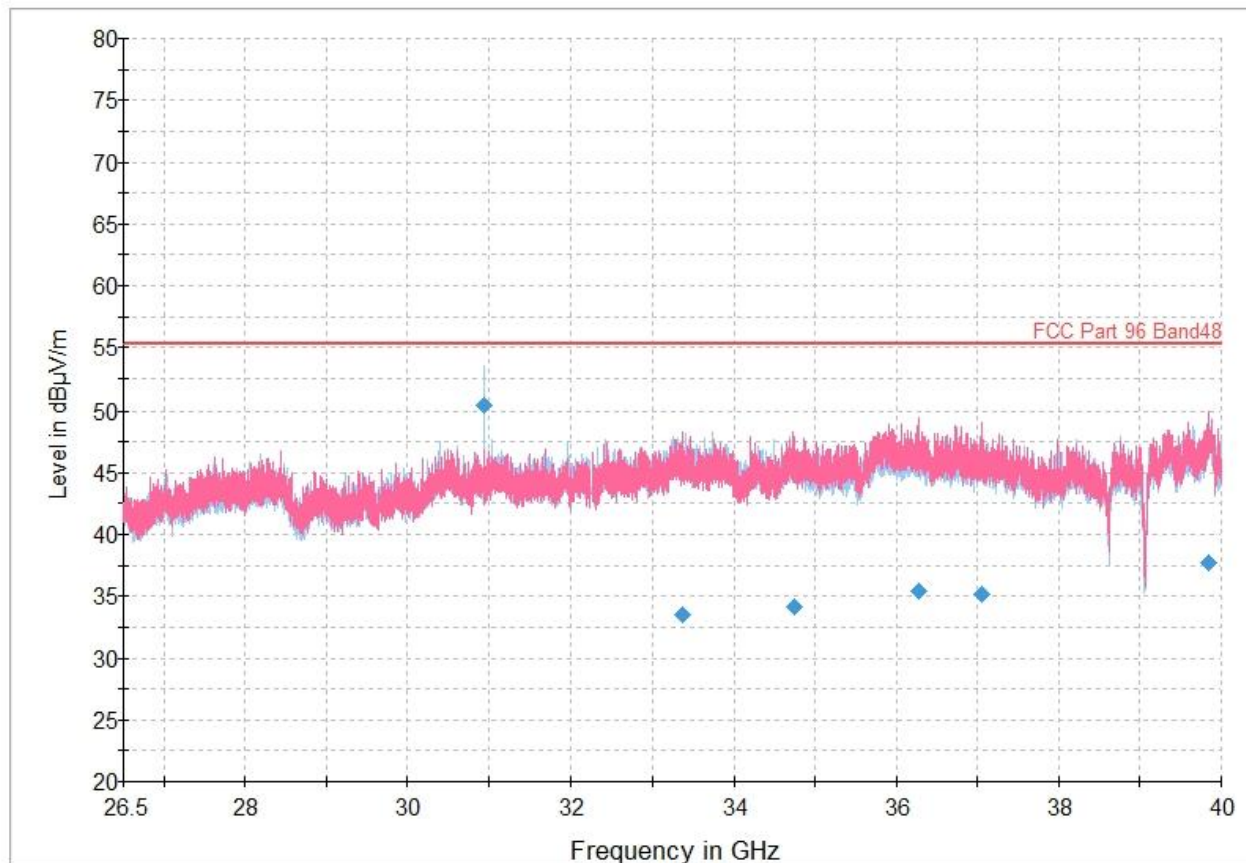


Figure 8.6-16: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – Low channel 3650 MHz

Table 8.6-16: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30938.500000	50.44	55.23	4.79	5000.0	1000.000	112.0	H	24.0	8.0
33360.250000	33.49	55.23	21.74	5000.0	1000.000	125.0	V	320.0	8.7
34738.900000	34.17	55.23	21.06	5000.0	1000.000	264.0	V	90.0	9.8
36271.900000	35.48	55.23	19.75	5000.0	1000.000	175.0	V	86.0	10.5
37054.300000	35.15	55.23	20.08	5000.0	1000.000	112.0	V	56.0	10.5
39844.300000	37.68	55.23	17.55	5000.0	1000.000	163.0	V	144.0	12.1

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

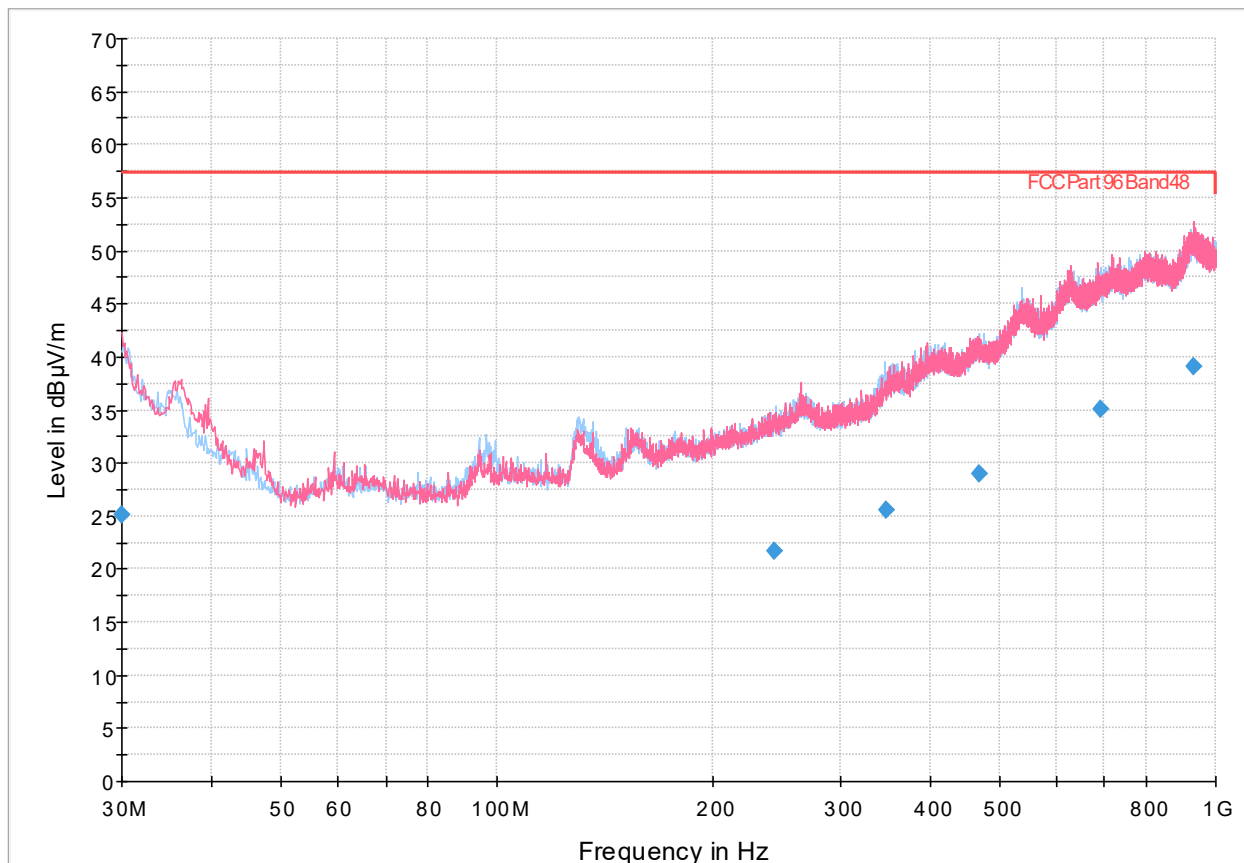


Figure 8.6-17: Radiated emissions spectral plot (30 MHz – 1000 MHz) – Mid channel 3675 MHz

Table 8.6-17: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.000000	25.15	57.38	32.23	5000.0	1000.000	137.0	V	134.0	22.8
242.864500	21.67	57.38	35.71	5000.0	1000.000	118.0	H	79.0	20.0
347.801000	25.52	57.38	31.86	5000.0	1000.000	230.0	H	162.0	23.5
468.162000	28.99	57.38	28.39	5000.0	1000.000	211.0	H	263.0	26.9
690.147500	35.06	57.38	22.32	5000.0	1000.000	222.0	V	44.0	31.7
932.720500	39.02	57.38	18.36	5000.0	1000.000	203.0	V	336.0	35.4

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

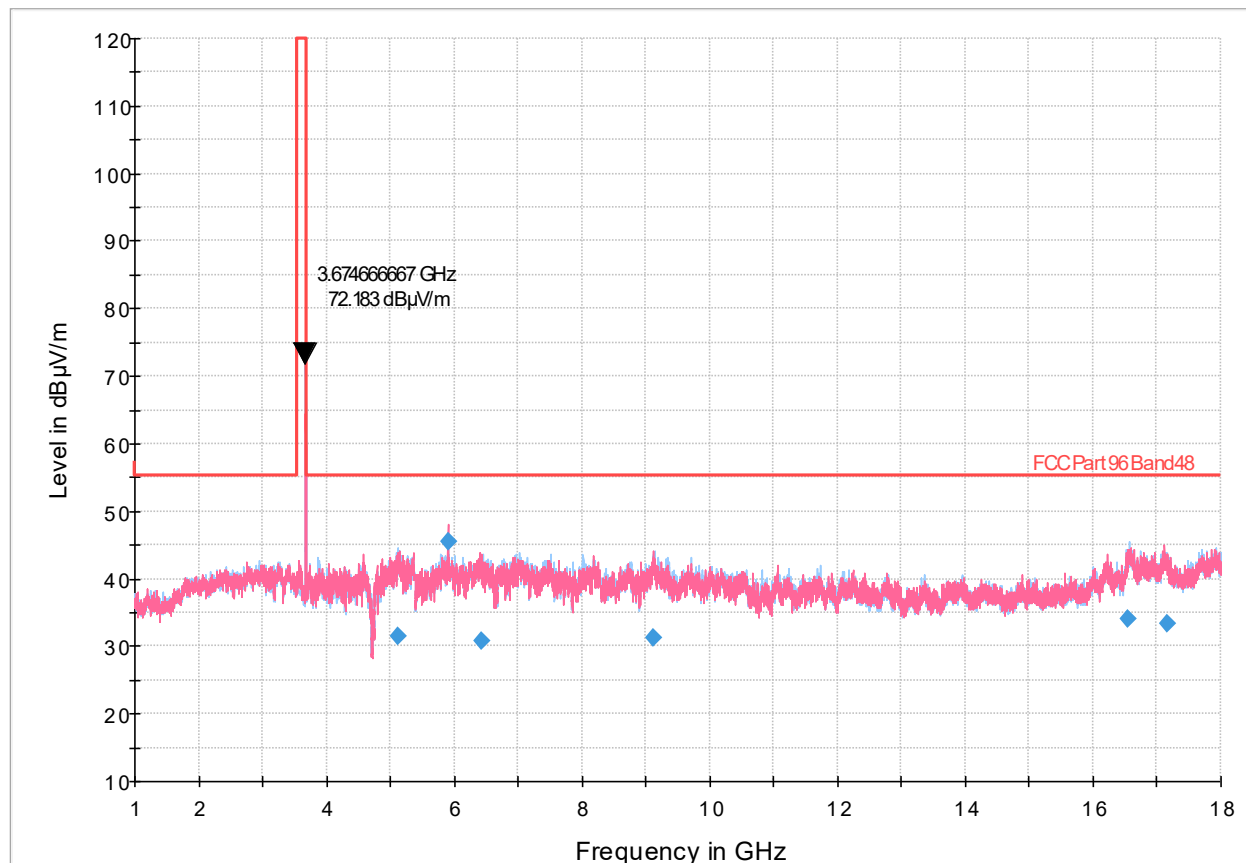


Figure 8.6-18: Radiated emissions spectral plot (1 GHz - 18 GHz) – Mid channel 3675 MHz

Table 8.6-18: Radiated emissions results

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5116.979944	31.50	55.23	23.73	5000.0	1000.000	241.0	H	225.0	-2.8
5898.143333	45.51	55.23	9.72	5000.0	1000.000	100.0	V	348.0	-1.5
6425.013222	30.81	55.23	24.42	5000.0	1000.000	360.0	V	351.0	-0.5
9125.889556	31.19	55.23	24.04	5000.0	1000.000	122.0	H	152.0	1.7
16555.943833	33.96	55.23	21.27	5000.0	1000.000	366.0	H	324.0	12.6
17154.359556	33.45	55.23	21.78	5000.0	1000.000	125.0	V	121.0	12.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

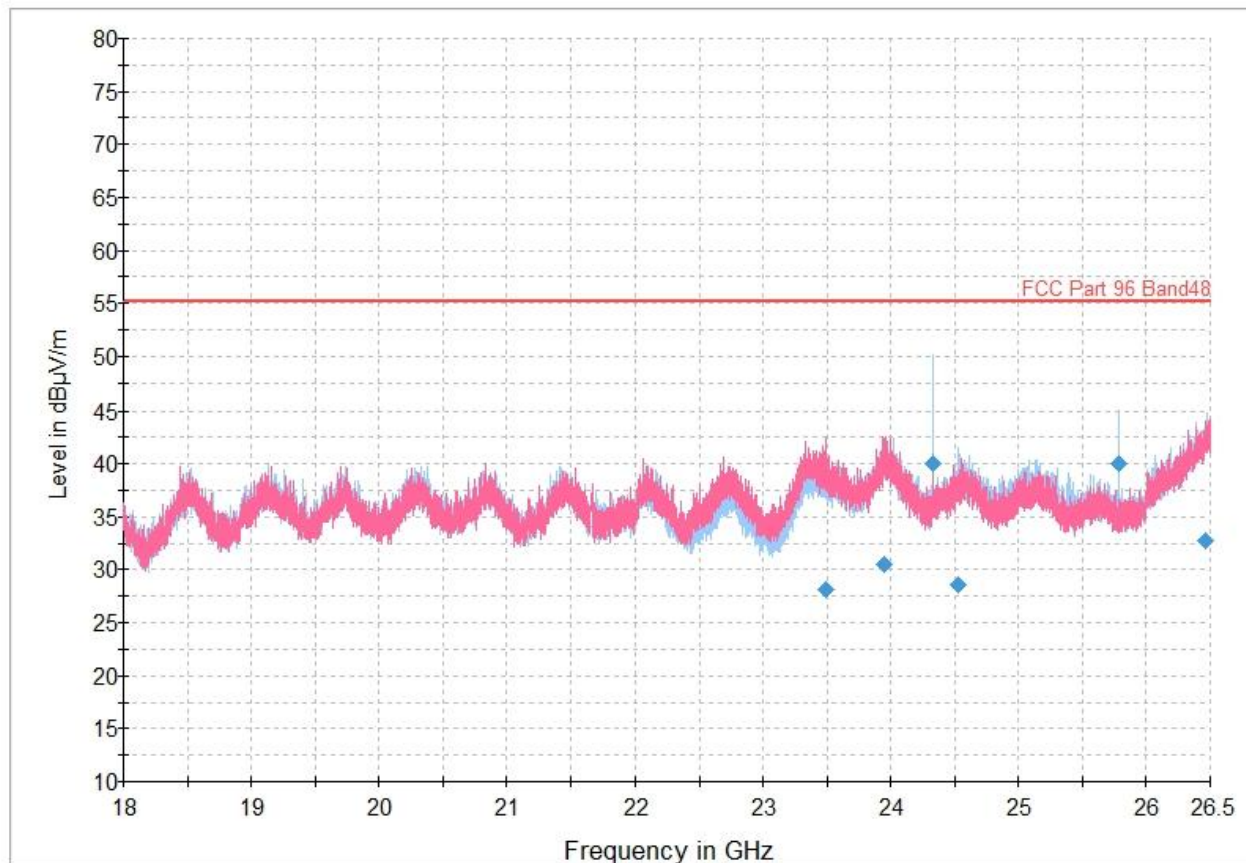


Figure 8.6-19: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – Mid channel 3675 MHz

Table 8.6-19: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23495.918750	28.08	55.23	27.15	5000.0	1000.000	214.0	V	331.0	22.7
23943.106250	30.54	55.23	24.69	5000.0	1000.000	103.0	V	191.0	21.6
24330.375000	40.09	55.23	15.14	5000.0	1000.000	103.0	H	207.0	20.7
24530.518750	28.54	55.23	26.69	5000.0	1000.000	148.0	H	158.0	20.6
25781.150000	40.00	55.23	15.23	5000.0	1000.000	103.0	H	203.0	21.2
26462.475000	32.77	55.23	22.46	5000.0	1000.000	148.0	H	80.0	24.3

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

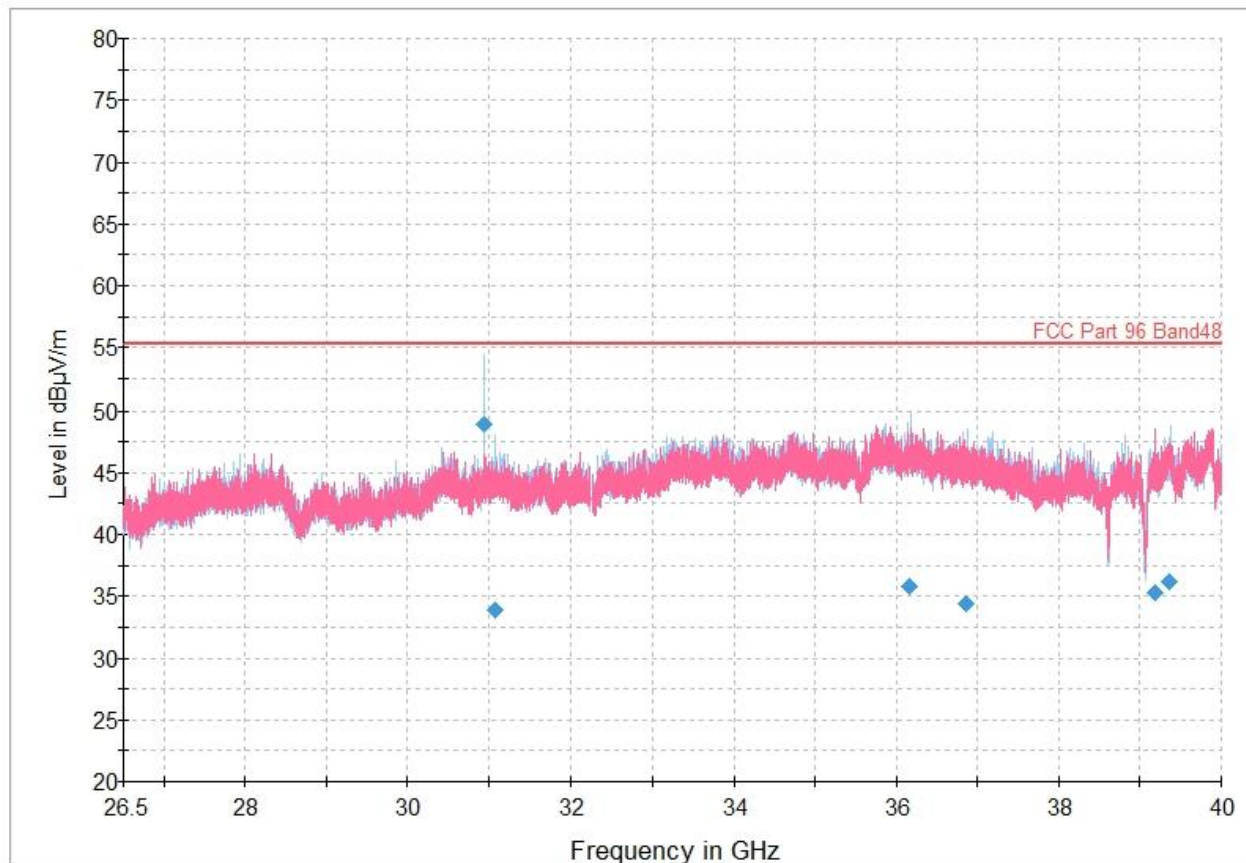


Figure 8.6-20: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – Mid channel 3675 MHz

Table 8.6-20: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30938.200000	48.96	55.23	6.27	5000.0	1000.000	112.0	H	24.0	8.0
31085.200000	33.92	55.23	21.31	5000.0	1000.000	118.0	H	24.0	8.0
36168.400000	35.76	55.23	19.47	5000.0	1000.000	151.0	H	220.0	10.5
36860.500000	34.45	55.23	20.78	5000.0	1000.000	175.0	H	274.0	10.3
39179.650000	35.32	55.23	19.91	5000.0	1000.000	135.0	V	47.0	10.7
39367.750000	36.23	55.23	19.00	5000.0	1000.000	213.0	H	22.0	10.6

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

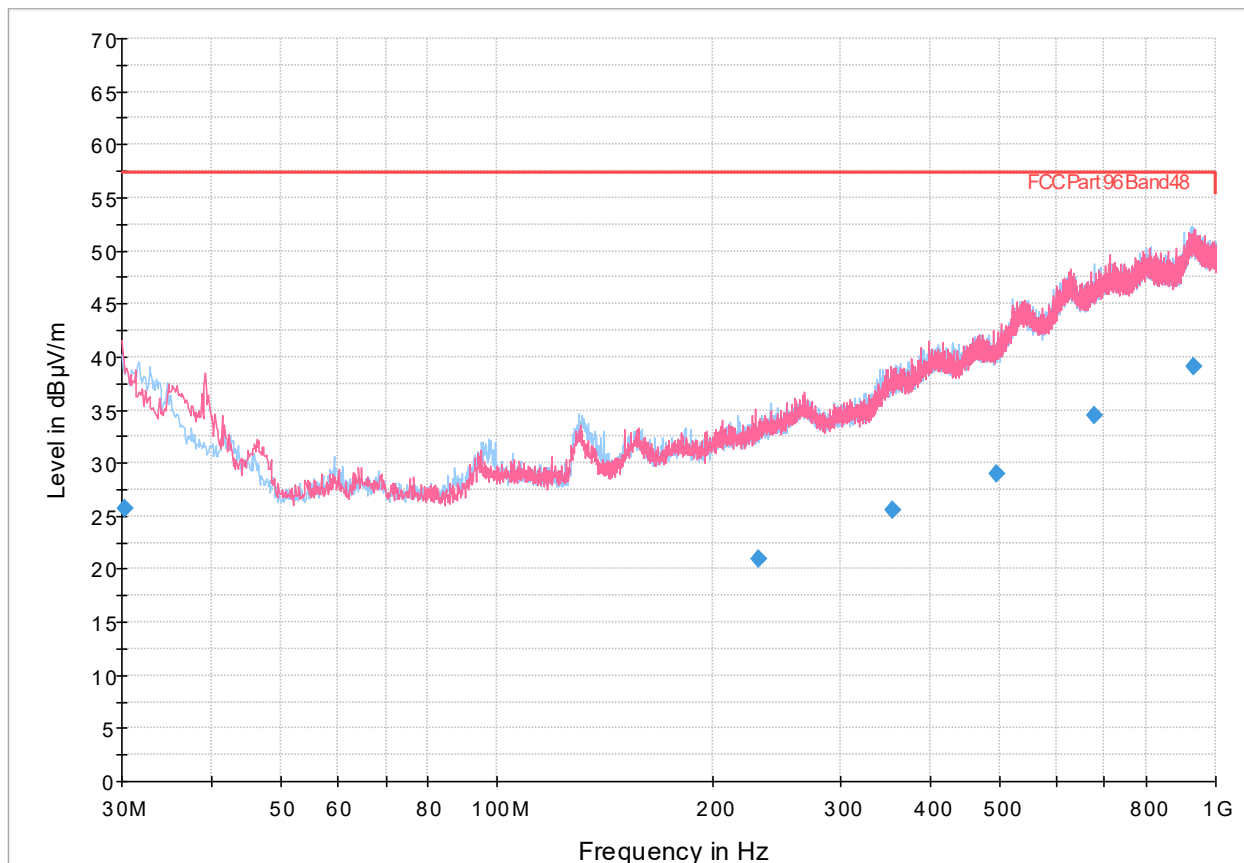


Figure 8.6-21: Radiated emissions spectral plot (30 MHz – 1000 MHz) – High channel 3700 MHz

Table 8.6-21: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.300000	25.68	57.38	31.70	5000.0	1000.000	123.0	V	322.0	22.7
230.950500	20.97	57.38	36.41	5000.0	1000.000	394.0	H	88.0	19.2
355.336250	25.58	57.38	31.80	5000.0	1000.000	218.0	H	72.0	23.8
496.376250	28.95	57.38	28.43	5000.0	1000.000	222.0	V	197.0	26.8
678.676500	34.54	57.38	22.84	5000.0	1000.000	323.0	H	274.0	31.3
932.784500	39.02	57.38	18.36	5000.0	1000.000	410.0	H	70.0	35.4

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

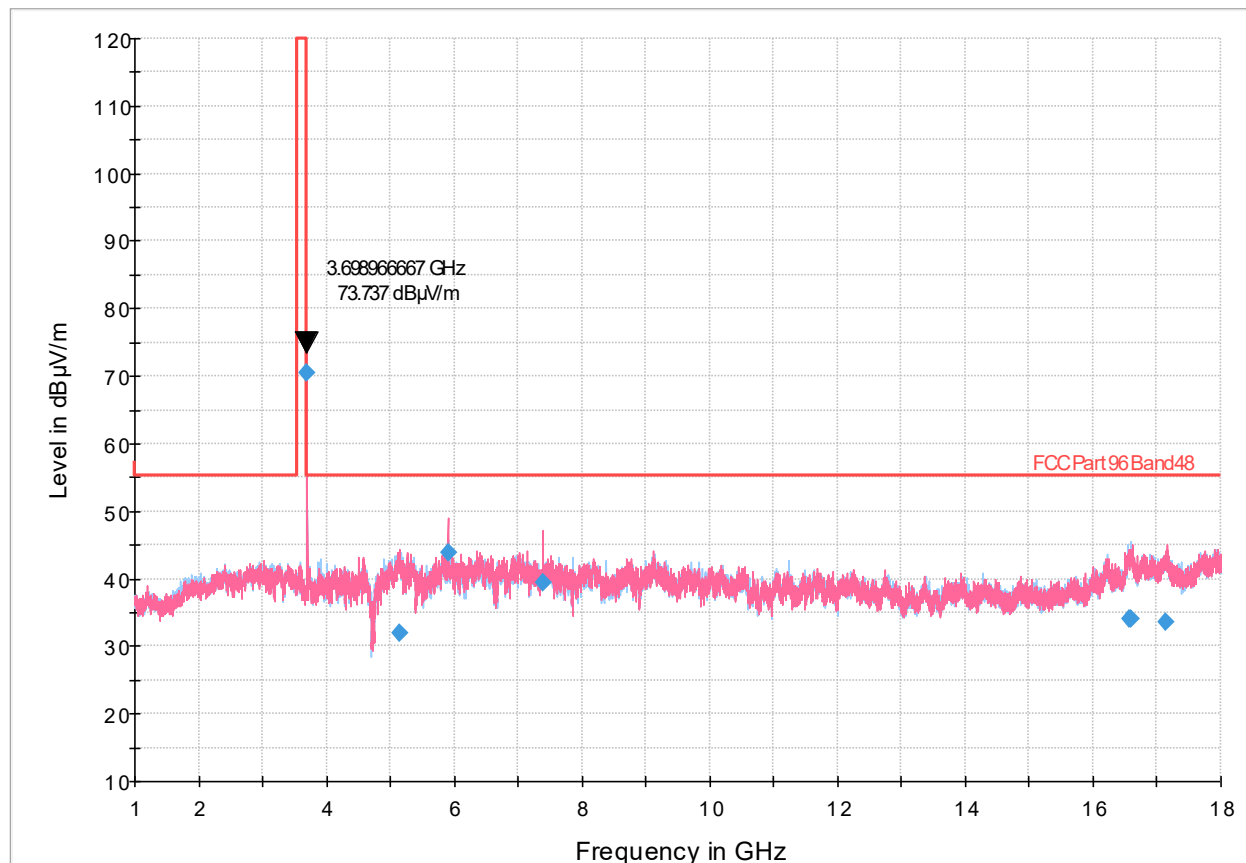


Figure 8.6-22: Radiated emissions spectral plot (1 GHz - 18 GHz) – High channel 3700 MHz

Table 8.6-22: Radiated emissions results

Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3698.871667	70.42	120.00	49.58	5000.0	1000.000	114.0	V	306.0	-5.4
5147.268111	31.99	55.23	23.24	5000.0	1000.000	275.0	V	300.0	-2.7
5898.397389	43.97	55.23	11.26	5000.0	1000.000	125.0	V	357.0	-1.5
7398.022111	39.47	55.23	15.76	5000.0	1000.000	126.0	V	0.0	-1.2
16558.250222	33.97	55.23	21.26	5000.0	1000.000	257.0	H	345.0	12.6
16595.114222	34.07	55.23	21.16	5000.0	1000.000	387.0	H	69.0	12.8
17145.654778	33.54	55.23	21.69	5000.0	1000.000	389.0	V	198.0	12.4

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

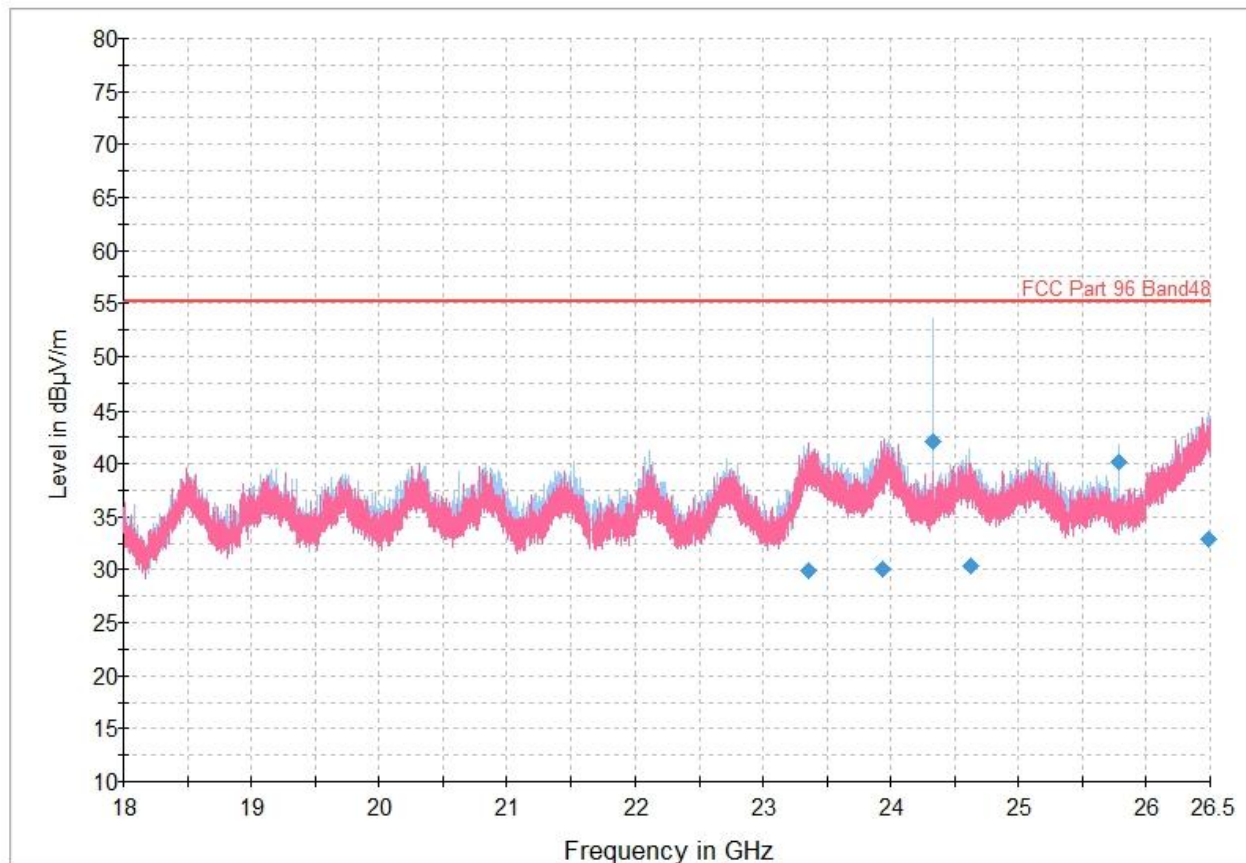


Figure 8.6-23: Radiated emissions spectral plot (18 GHz - 26.5 GHz) – High channel 3700 MHz

Table 8.6-23: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
23349.325000	29.95	55.23	25.28	5000.0	1000.000	187.0	V	287.0	21.8
23934.162500	30.01	55.23	25.22	5000.0	1000.000	376.0	H	314.0	21.6
24330.075000	42.05	55.23	13.18	5000.0	1000.000	103.0	H	212.0	20.7
24620.893750	30.30	55.23	24.93	5000.0	1000.000	397.0	H	45.0	20.6
25781.218750	40.24	55.23	14.99	5000.0	1000.000	103.0	H	207.0	21.2
26488.731250	32.91	55.23	22.32	5000.0	1000.000	117.0	H	121.0	24.5

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

Full Spectrum

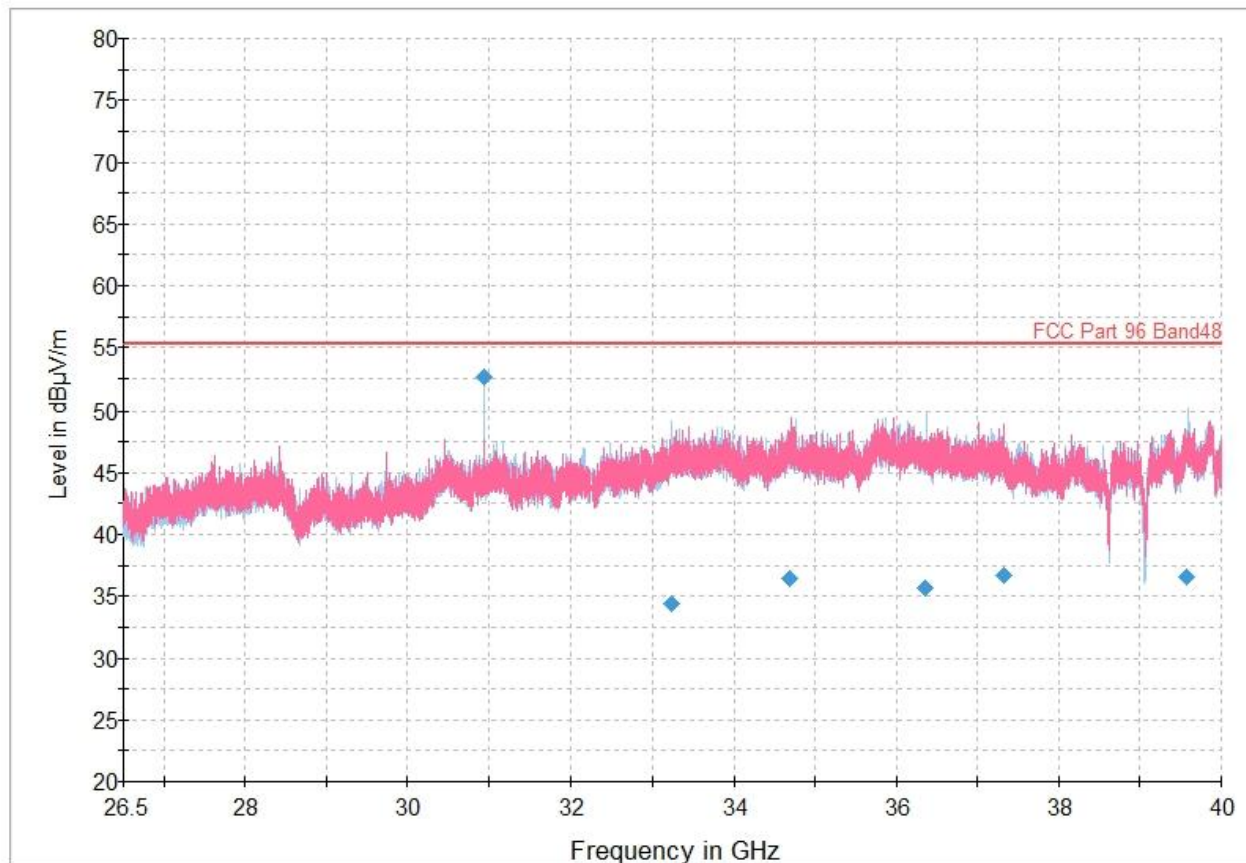


Figure 8.6-24: Radiated emissions spectral plot (26.5 GHz - 40 GHz) – High channel 3700 MHz

Table 8.6-24: Radiated emissions results

Frequency (MHz)	RMS (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30938.350000	52.67	55.23	2.56	5000.0	1000.000	103.0	H	10.0	8.0
33227.800000	34.43	55.23	20.80	5000.0	1000.000	125.0	H	218.0	8.5
34692.850000	36.43	55.23	18.80	5000.0	1000.000	146.0	V	32.0	9.8
36350.800000	35.65	55.23	19.58	5000.0	1000.000	175.0	H	90.0	10.5
37321.450000	36.70	55.23	18.53	5000.0	1000.000	125.0	V	308.0	10.4
39582.250000	36.51	55.23	18.72	5000.0	1000.000	195.0	H	123.0	11.0

Notes:

¹ Field strength (dB V/m) = receiver/spectrum analyzer value (dB V) + correction factor (dB)

² Correction factors = antenna factor ACF (dB) + cable loss (dB)

³ Emissions that were continuously present for a minimum of 1 second and occurred more than once for every 15 seconds observation period were considered valid emissions. The maximum value of valid emissions has been recorded.

8.7 Frequency stability

8.7.1 References and limits

- KDB 935210 D05v01r04 (3.7)
- ANSI C63.26 7.2.2.6

8.7.2 Test summary

Verdict	Pass		
Test date	June 23, 2026	Temperature	22 °C
Test engineer	Lan Sayasane, Sr. EMC Test Engineer	Air pressure	1008 mbar
Test location	☐ Wireless bench	Relative humidity	58 %
	☐ 10 m semi-anechoic chamber		
	☐ 3 m semi-anechoic chamber		
	☒ Other: Temperature chamber		

8.7.3 Notes

Testing was performed with the transmitter operating on a fixed channel at full power.

8.7.4 Setup details

EUT power input during test	48 VDC
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:

Spectrum analyzer settings:

Resolution bandwidth	1 kHz
Video bandwidth	3 kHz
Detector mode	Peak
Trace mode	Max Hold

8.7.5 Test data

Table 8.7-1: Frequency error versus temperature and supply voltage.

Temperature (°C)	Frequency (MHz)	ppm
50	3600.0127	-3.519
40	3600.0222	-6.159
30	3600.0079	-2.182
20	3600.0034	-0.943
10	3599.9940	1.667
0	3600.0143	-3.975
-10	3600.0165	-4.580
-20	3600.0012	-0.346
-30	3600.0216	-5.989
85% of nominal voltage	3600.0077	-2.128
115% of nominal voltage	3600.0141	-3.918
Nominal voltage	3600.0108	-3.009

End of test report