

Full Spectrum

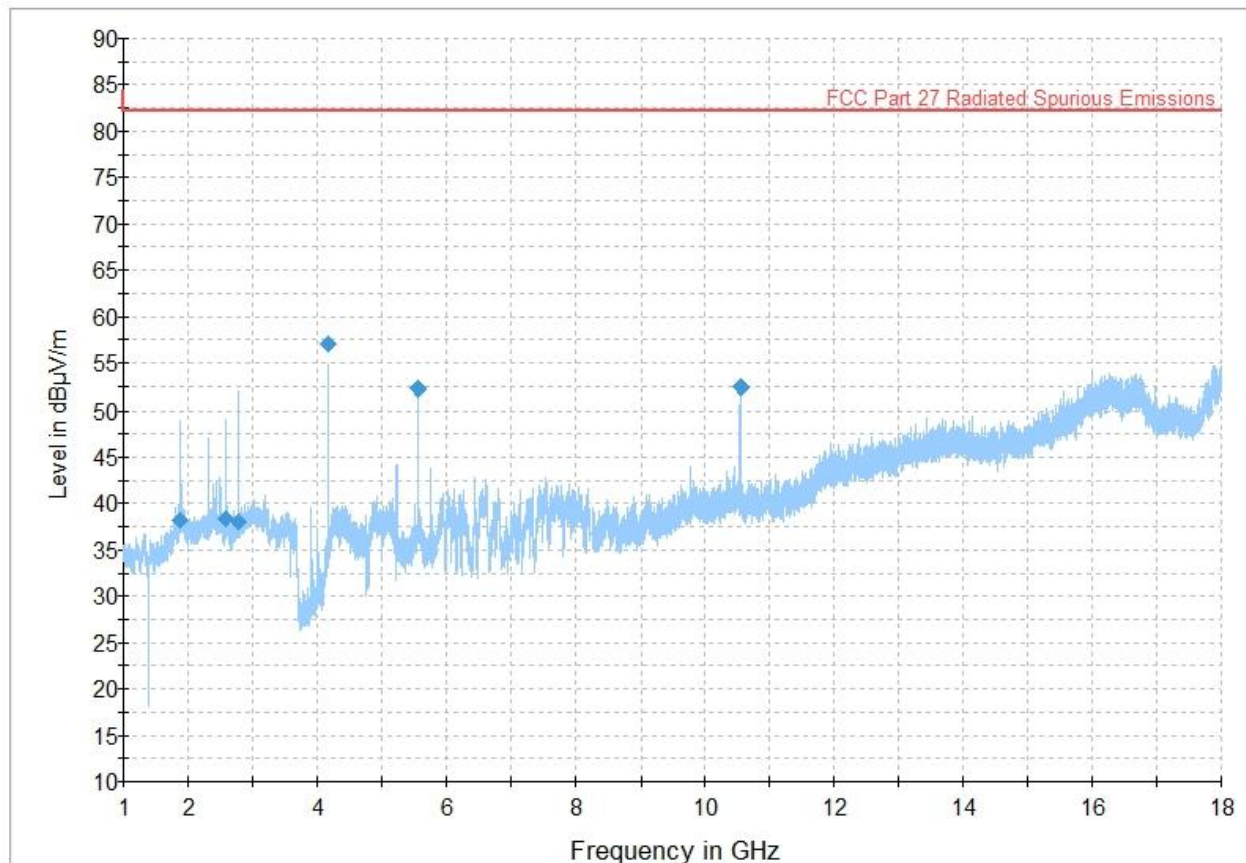


Figure 8.7-6: Radiated emissions spectral plot (1 GHz - 18 GHz) - High_1394MHz, 0.05MHz BW

Table 8.7-6: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1869.333333	38.19	82.23	44.04	100.0	1000.000	128.0	V	135.0	-5.7
2584.700000	38.32	82.23	43.91	100.0	1000.000	140.0	H	0.0	-3.6
2787.833333	38.01	82.23	44.22	100.0	1000.000	159.0	V	296.0	-2.8
4181.833333	57.01	82.23	25.22	100.0	1000.000	147.0	V	147.0	1.0
5576.233333	52.35	82.23	29.88	100.0	1000.000	187.0	V	149.0	3.6
10541.600000	52.47	82.23	29.76	100.0	1000.000	199.0	V	61.0	11.5

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.

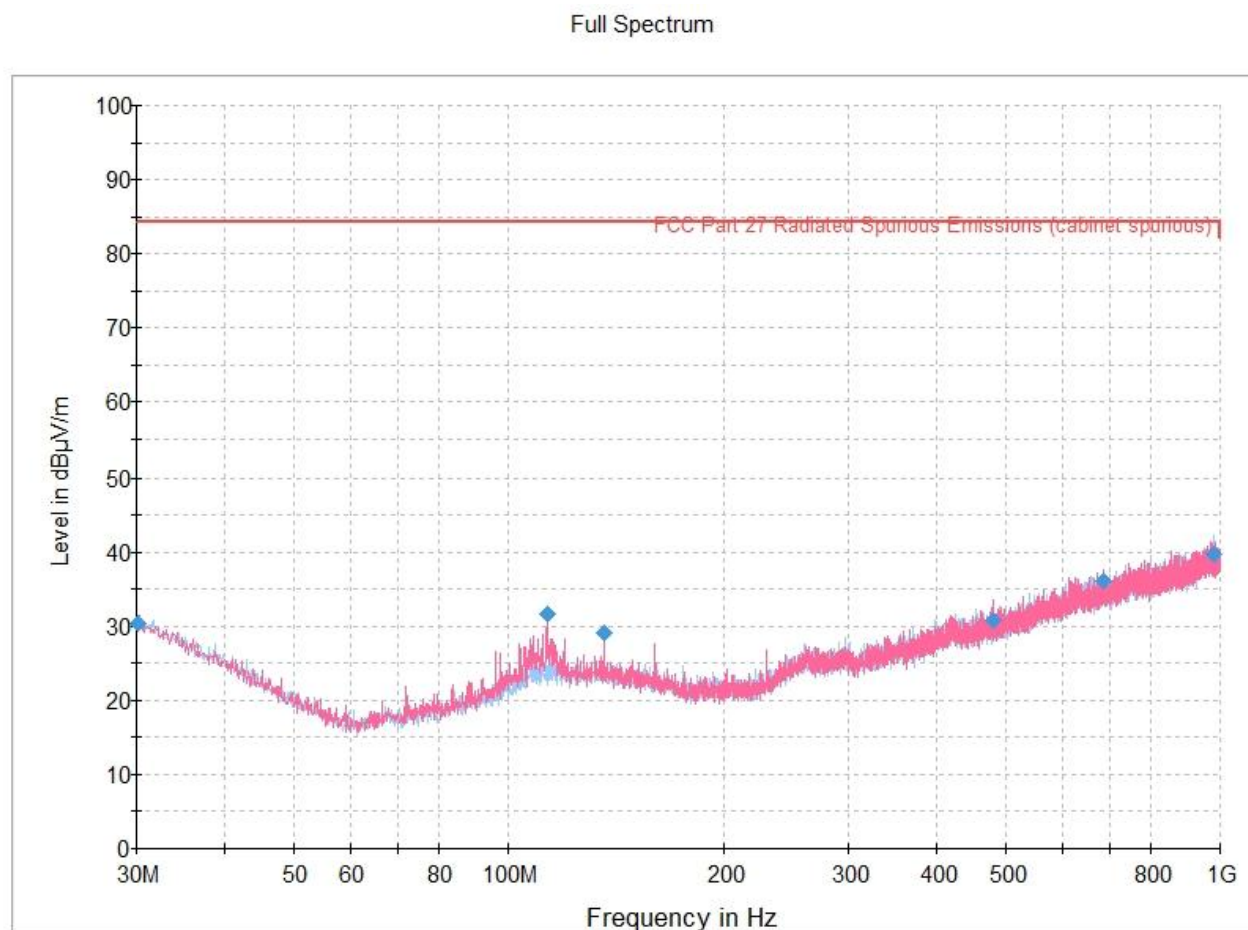


Figure 8.7-7: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1392.5MHz, 1.2MHz BW

Table 8.7-7: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.140000	30.42	84.38	53.96	5000.0	100.000	355.0	V	0.0	26.5
113.682500	31.73	84.38	52.65	5000.0	100.000	401.0	V	11.0	19.2
136.032500	29.00	84.38	55.38	5000.0	100.000	401.0	V	164.0	19.8
480.662500	30.75	84.38	53.63	5000.0	100.000	289.0	V	348.0	26.9
684.328750	36.11	84.38	48.27	5000.0	100.000	205.0	V	18.0	30.6
978.348750	39.70	84.38	44.68	5000.0	100.000	363.0	H	286.0	34.5

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

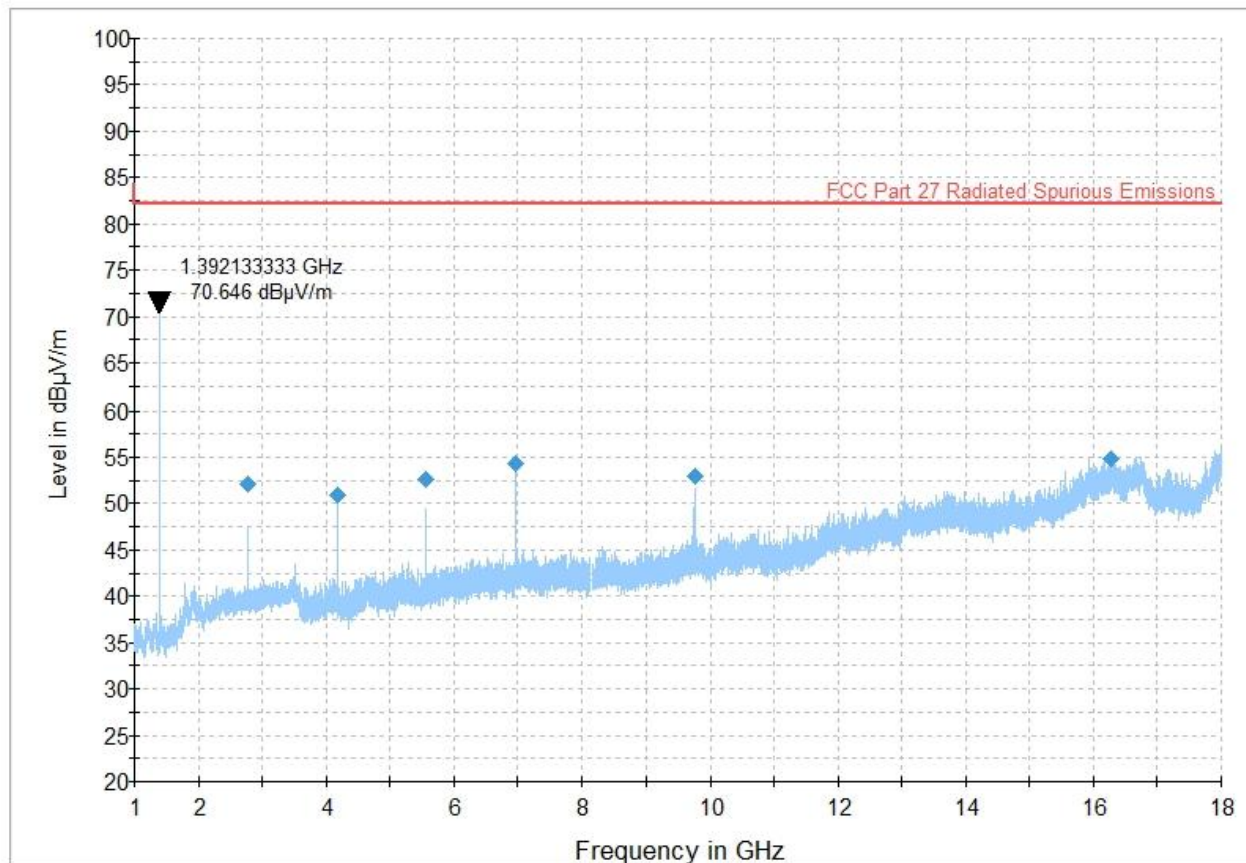


Figure 8.7-8: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1392.5MHz, 1.2MHz BW

Table 8.7-8: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2784.666667	52.15	82.23	30.08	100.0	1000.000	225.0	V	323.0	-2.8
4177.700000	50.90	82.23	31.33	100.0	1000.000	298.0	H	10.0	1.0
5571.666667	52.62	82.23	29.61	100.0	1000.000	164.0	H	109.0	3.6
6961.666667	54.24	82.23	27.99	100.0	1000.000	203.0	V	300.0	5.5
9746.766667	53.03	82.23	29.20	100.0	1000.000	276.0	V	150.0	10.8
16280.533333	54.90	82.23	27.33	100.0	1000.000	127.0	V	0.0	23.6

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.

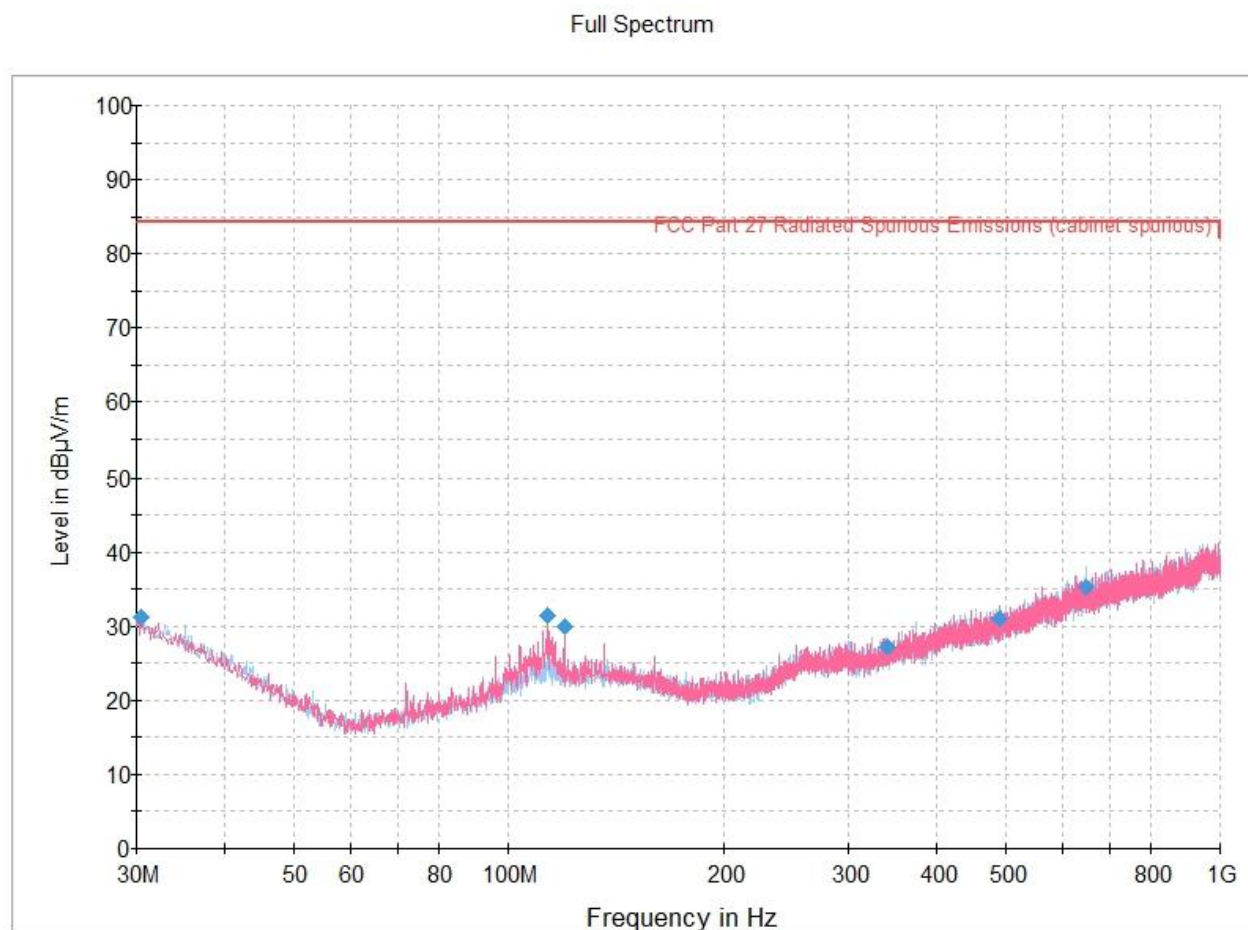


Figure 8.7-9: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1392.5MHz, 3.6MHz BW

Table 8.7-9: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.460000	31.28	84.38	53.10	5000.0	100.000	362.0	V	0.0	26.4
113.642500	31.47	84.38	52.91	5000.0	100.000	384.0	V	137.0	19.2
120.027500	30.03	84.38	54.35	5000.0	100.000	395.0	V	10.0	19.6
340.128750	27.21	84.38	57.17	5000.0	100.000	174.0	H	0.0	23.4
489.800000	30.90	84.38	53.48	5000.0	100.000	179.0	V	56.0	27.0
649.401250	35.35	84.38	49.03	5000.0	100.000	208.0	H	92.0	29.9

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

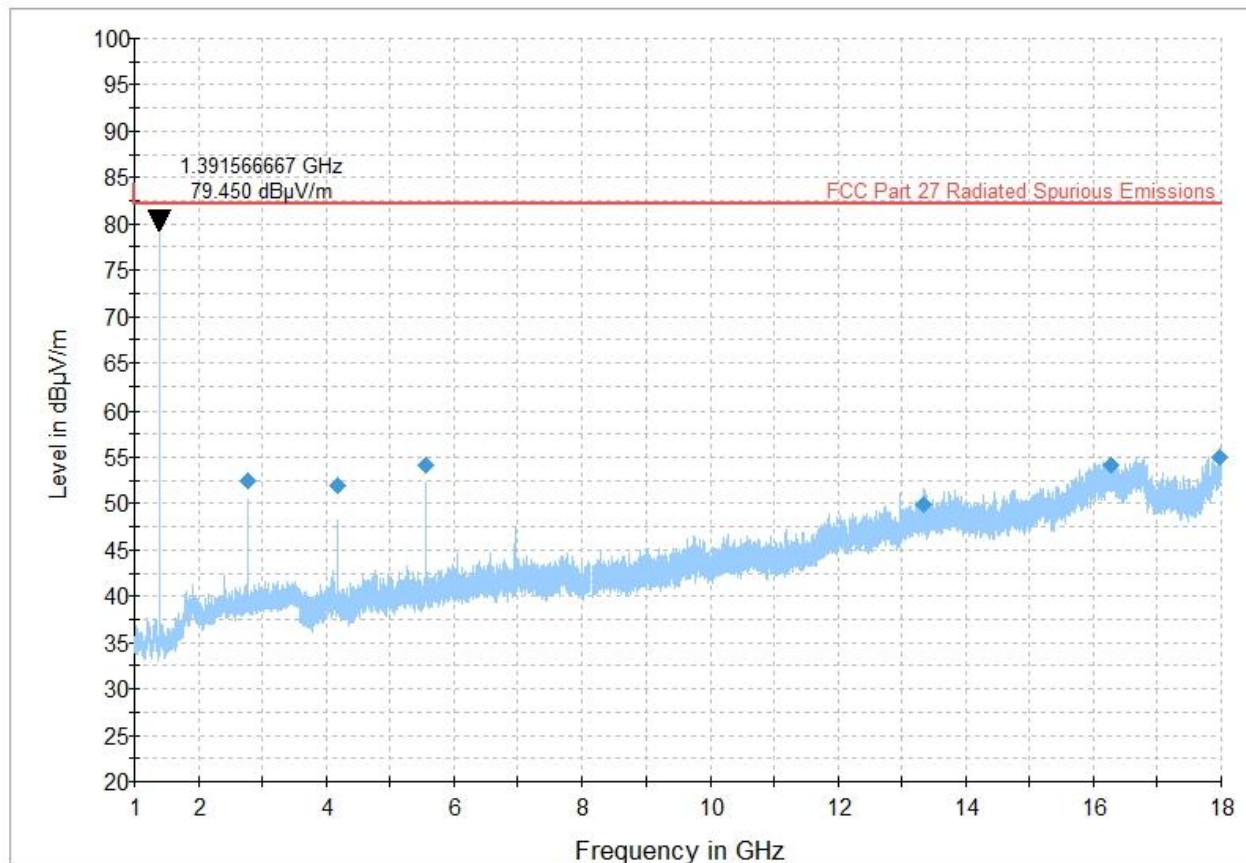


Figure 8.7-10: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1392.5MHz, 3.6MHz BW

Table 8.7-10: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2787.100000	52.44	82.23	29.79	100.0	1000.000	245.0	V	323.0	-2.8
4174.500000	51.98	82.23	30.25	100.0	1000.000	250.0	V	244.0	1.0
5566.033333	54.17	82.23	28.06	100.0	1000.000	165.0	H	122.0	3.6
13329.233333	49.89	82.23	32.34	100.0	1000.000	261.0	V	146.0	17.4
16278.066667	54.22	82.23	28.01	100.0	1000.000	190.0	H	84.0	23.6
17976.433333	55.04	82.23	27.19	100.0	1000.000	274.0	V	12.0	24.2

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.

8.7.5 Test data – 1432-1435 MHz

Radiated spurious emissions:

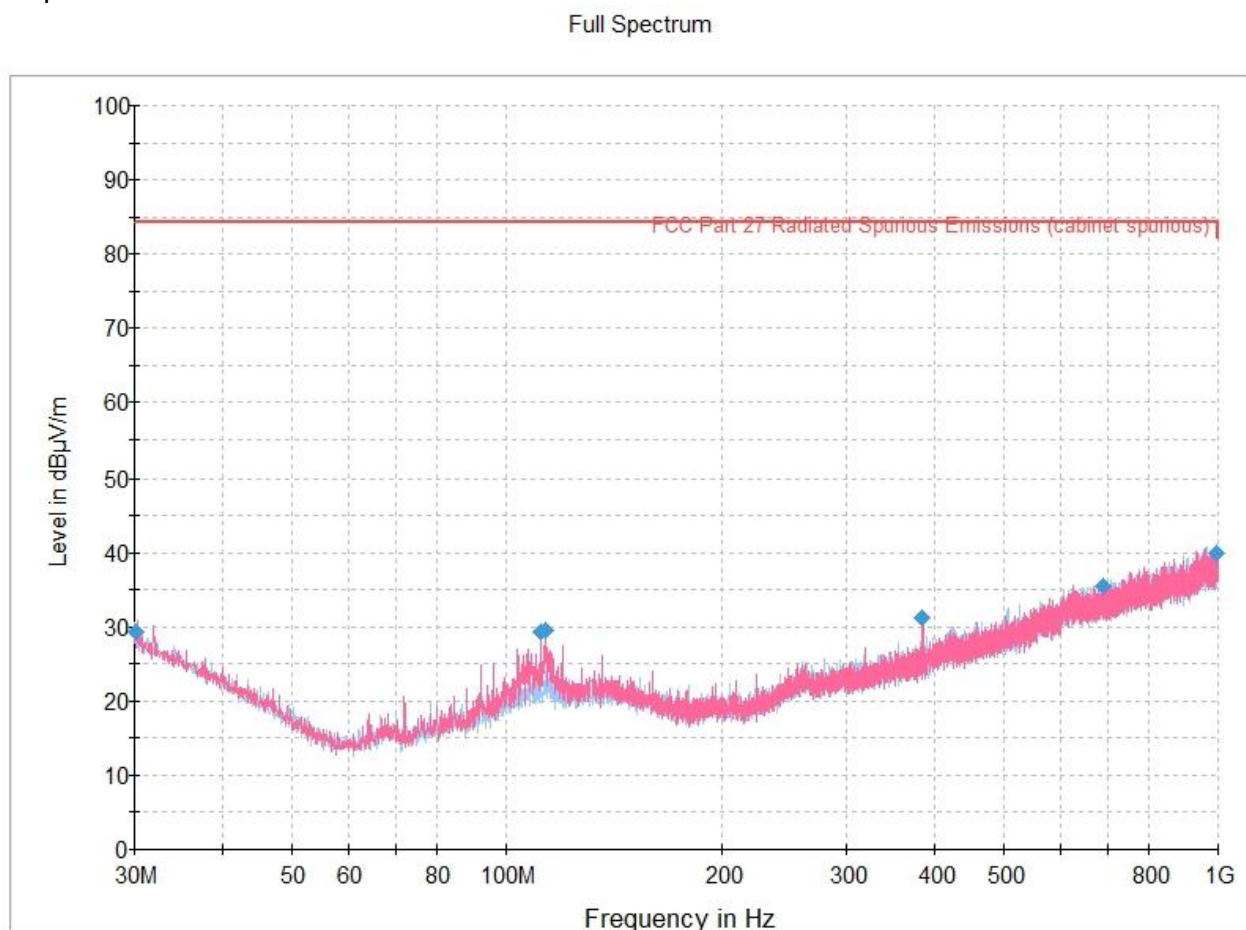


Figure 8.7-11: Radiated emissions spectral plot (30 MHz - 1 GHz) - Low_1433MHz, 0.05MHz BW

Table 8.7-11: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.120000	29.38	84.38	55.00	5000.0	100.000	204.0	V	253.0	26.5
112.025000	29.22	84.38	55.16	5000.0	100.000	401.0	V	137.0	19.0
113.642500	29.49	84.38	54.89	5000.0	100.000	376.0	V	278.0	19.2
383.989167	31.29	84.38	53.09	5000.0	100.000	138.0	V	316.0	24.6
688.209167	35.49	84.38	48.89	5000.0	100.000	401.0	V	314.0	30.5
996.700833	39.98	84.38	44.40	5000.0	100.000	237.0	H	98.0	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

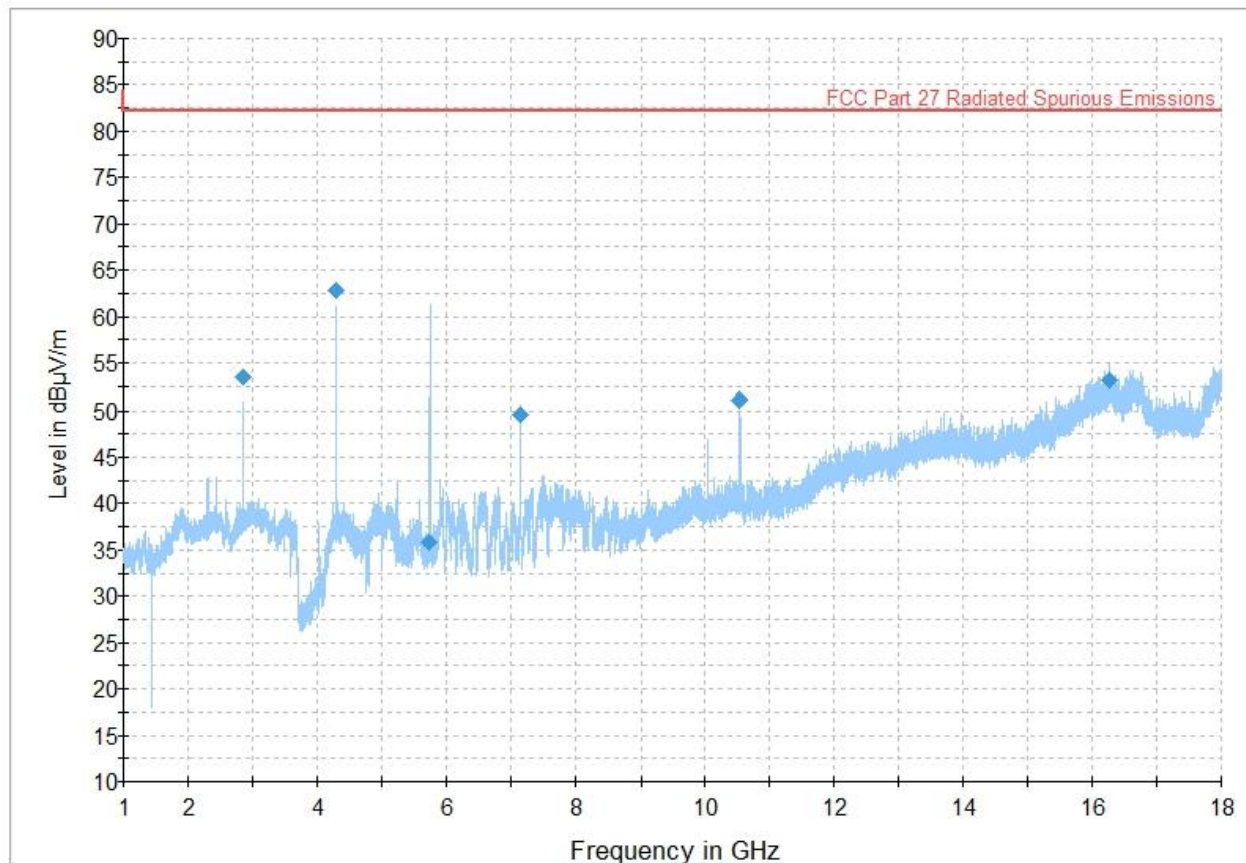


Figure 8.7-12: Radiated emissions spectral plot (1 GHz - 18 GHz) - Low_1433MHz, 0.05MHz BW

Table 8.7-12: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2866.033333	53.47	82.23	28.76	100.0	1000.000	179.0	V	264.0	-2.5
4298.966667	62.85	82.23	19.38	100.0	1000.000	191.0	V	223.0	0.6
5749.833333	35.80	82.23	46.43	100.0	1000.000	401.0	H	170.0	4.1
7165.166667	49.52	82.23	32.71	100.0	1000.000	190.0	V	234.0	5.9
10534.400000	51.05	82.23	31.18	100.0	1000.000	277.0	V	274.0	11.4
16260.233333	53.18	82.23	29.05	100.0	1000.000	382.0	H	0.0	23.4

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.

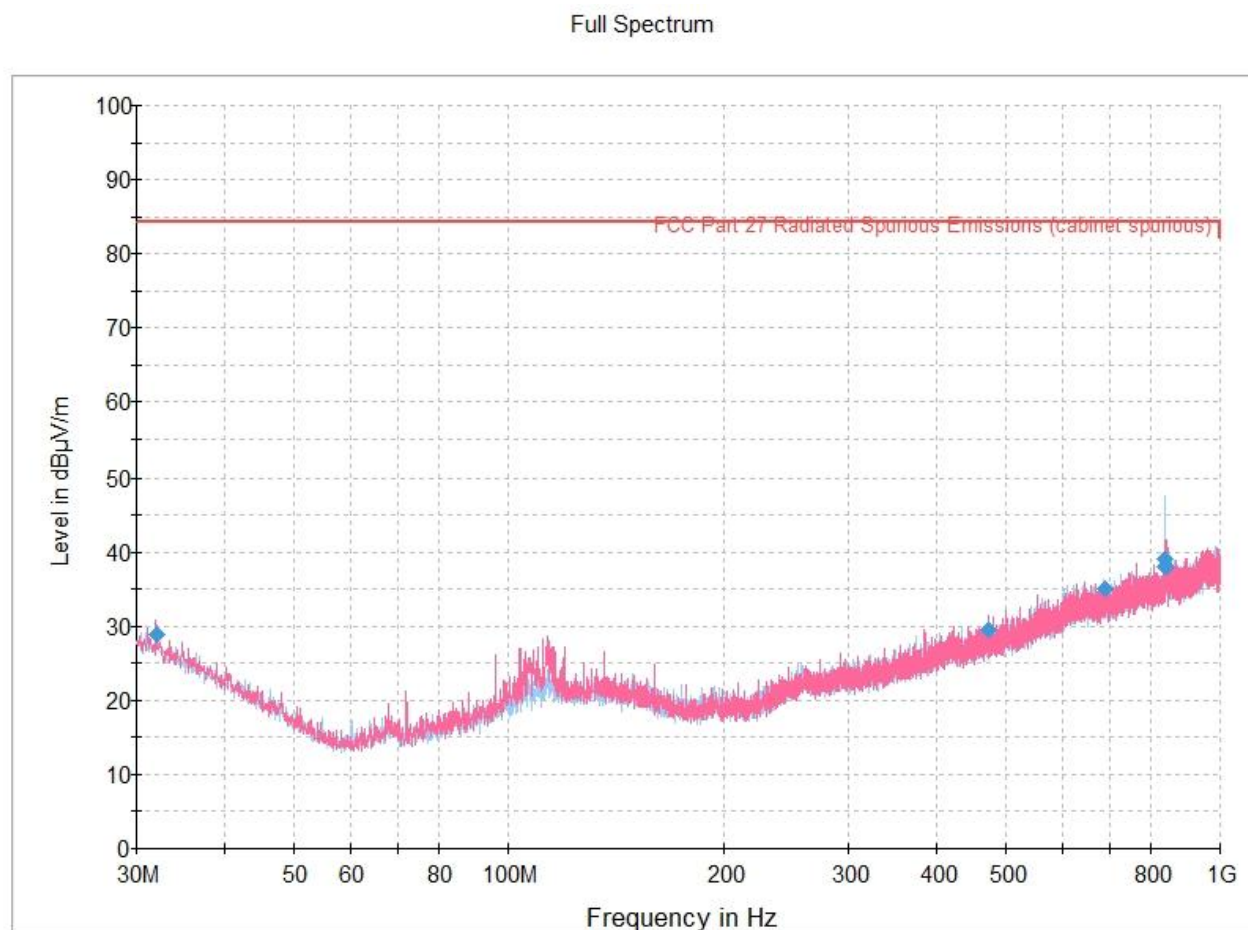


Figure 8.7-13: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1433.5MHz, 0.05MHz BW

Table 8.7-13: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.040000	28.94	84.38	55.44	5000.0	100.000	168.0	V	327.0	25.5
471.252500	29.55	84.38	54.83	5000.0	100.000	110.0	V	110.0	26.8
687.633333	34.94	84.38	49.44	5000.0	100.000	160.0	H	173.0	30.5
835.605000	39.13	84.38	45.25	5000.0	100.000	397.0	V	48.0	32.8
835.777500	37.91	84.38	46.47	5000.0	100.000	274.0	H	354.0	32.8
838.556667	37.98	84.38	46.40	5000.0	100.000	215.0	V	24.0	32.9

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

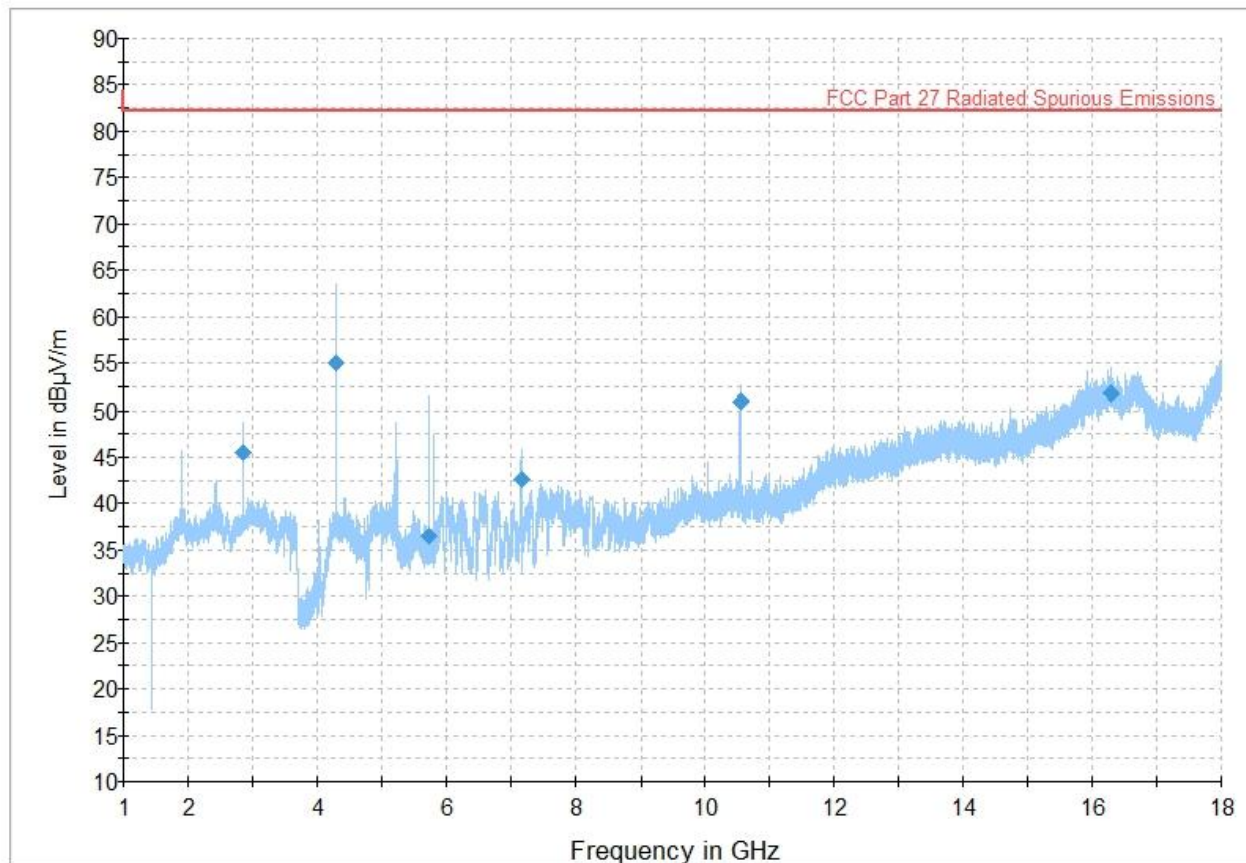


Figure 8.7-14: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1433.5MHz, 0.05MHz BW

Table 8.7-14: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2867.000000	45.49	82.23	36.74	100.0	1000.000	180.0	V	298.0	-2.5
4300.666667	54.95	82.23	27.28	100.0	1000.000	182.0	V	223.0	0.6
5737.933333	36.54	82.23	45.69	100.0	1000.000	117.0	V	135.0	4.1
7167.600000	42.57	82.23	39.66	100.0	1000.000	324.0	H	153.0	5.9
10542.666667	50.97	82.23	31.26	100.0	1000.000	195.0	V	59.0	11.5
16299.366667	51.82	82.23	30.41	100.0	1000.000	152.0	H	190.0	23.4

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.

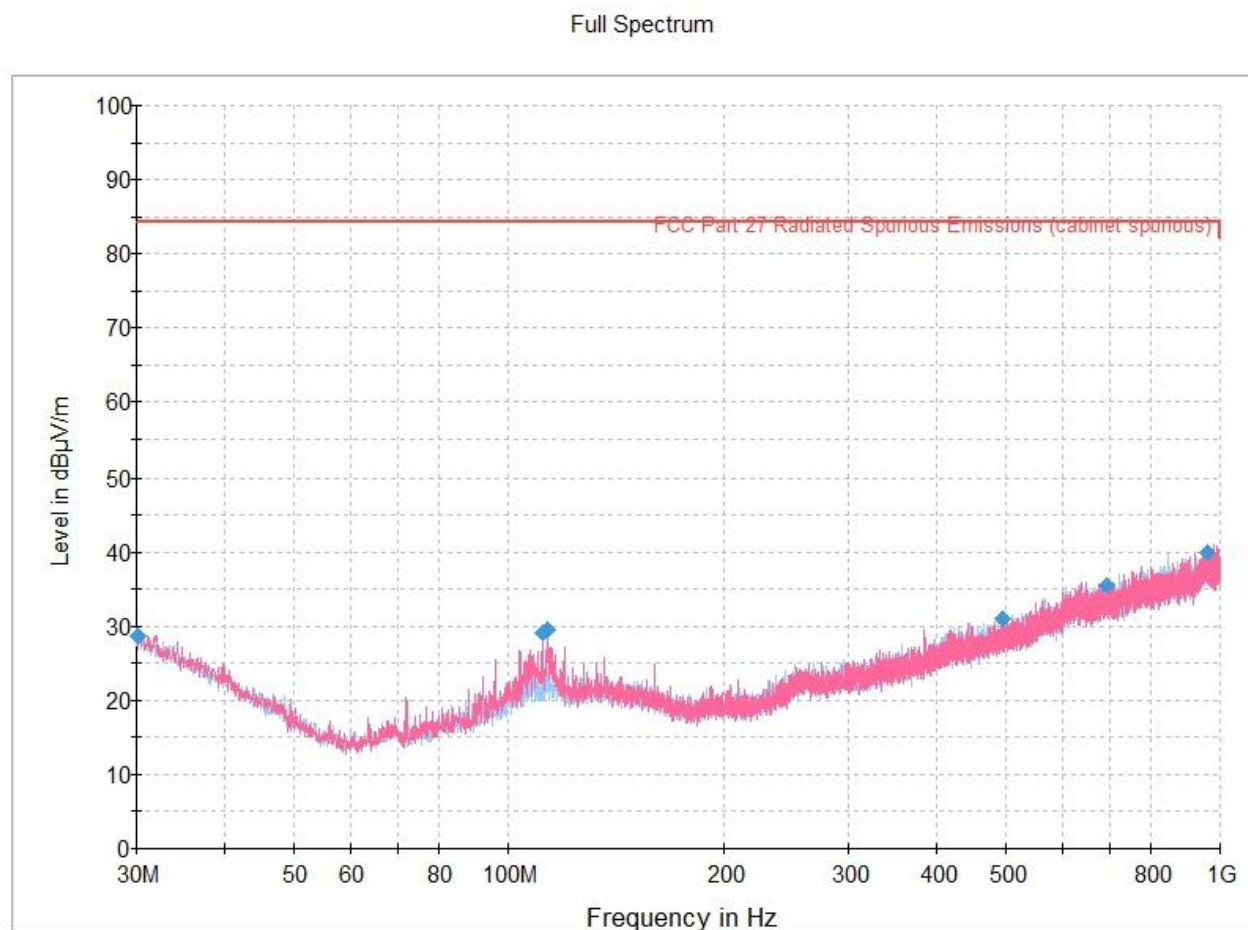


Figure 8.7-15: Radiated emissions spectral plot (30 MHz - 1 GHz) - High_1434MHz, 0.05MHz BW

Table 8.7-15: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.120000	28.56	84.38	55.82	5000.0	100.000	144.0	V	0.0	26.5
112.025000	29.00	84.38	55.38	5000.0	100.000	359.0	V	34.0	19.0
113.682500	29.42	84.38	54.96	5000.0	100.000	369.0	V	220.0	19.2
495.335000	31.03	84.38	53.36	5000.0	100.000	364.0	V	115.0	27.2
692.199167	35.42	84.38	48.96	5000.0	100.000	99.0	H	134.0	30.5
957.951667	39.90	84.38	44.48	5000.0	100.000	145.0	H	85.0	34.8

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

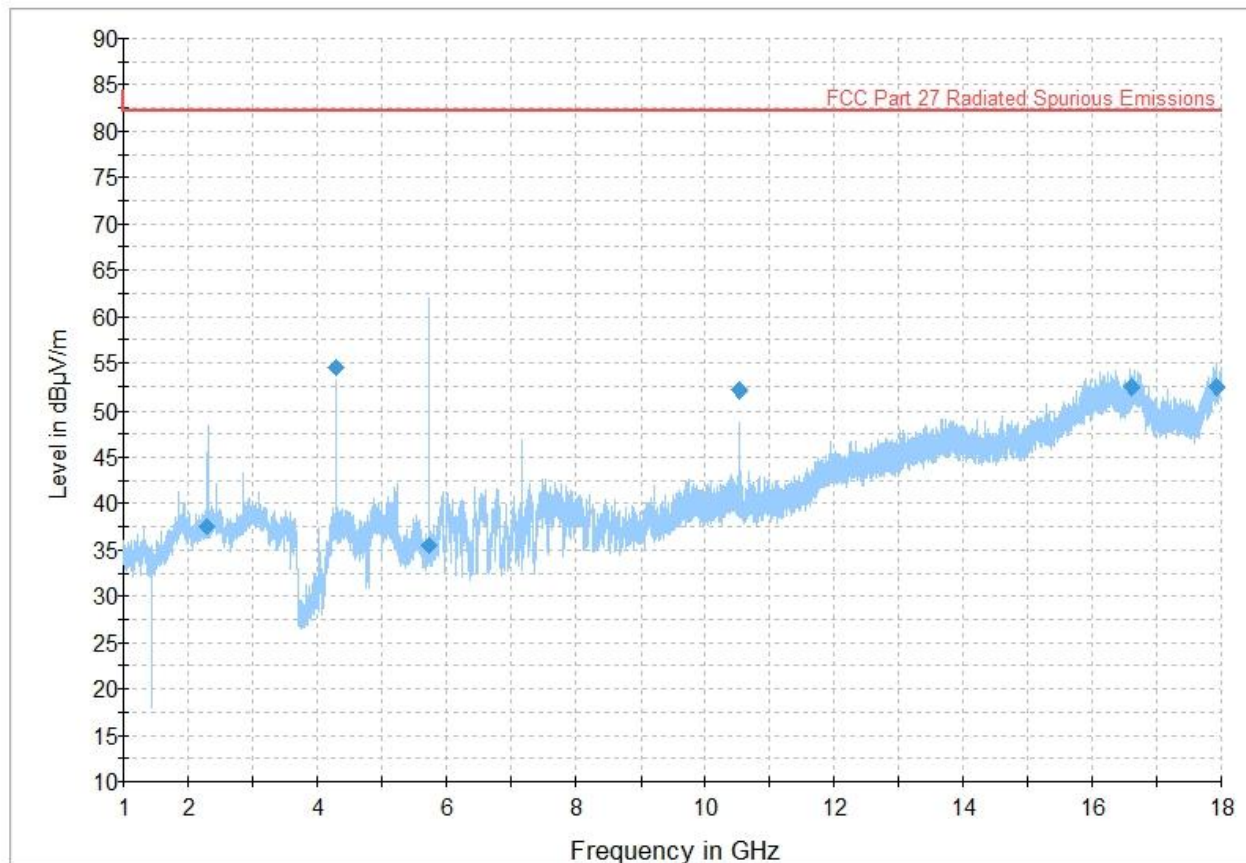


Figure 8.7-16: Radiated emissions spectral plot (1 GHz - 18 GHz) - High_1434MHz, 0.05MHz BW

Table 8.7-16: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2302.700000	37.45	82.23	44.78	100.0	1000.000	312.0	H	174.0	-4.5
4302.200000	54.54	82.23	27.69	100.0	1000.000	177.0	V	222.0	0.6
5747.866667	35.55	82.23	46.68	100.0	1000.000	225.0	V	126.0	4.1
10534.400000	52.17	82.23	30.06	100.0	1000.000	217.0	V	34.0	11.4
16599.200000	52.42	82.23	29.81	100.0	1000.000	343.0	H	349.0	23.1
17926.333333	52.46	82.23	29.77	100.0	1000.000	300.0	H	59.0	23.5

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.

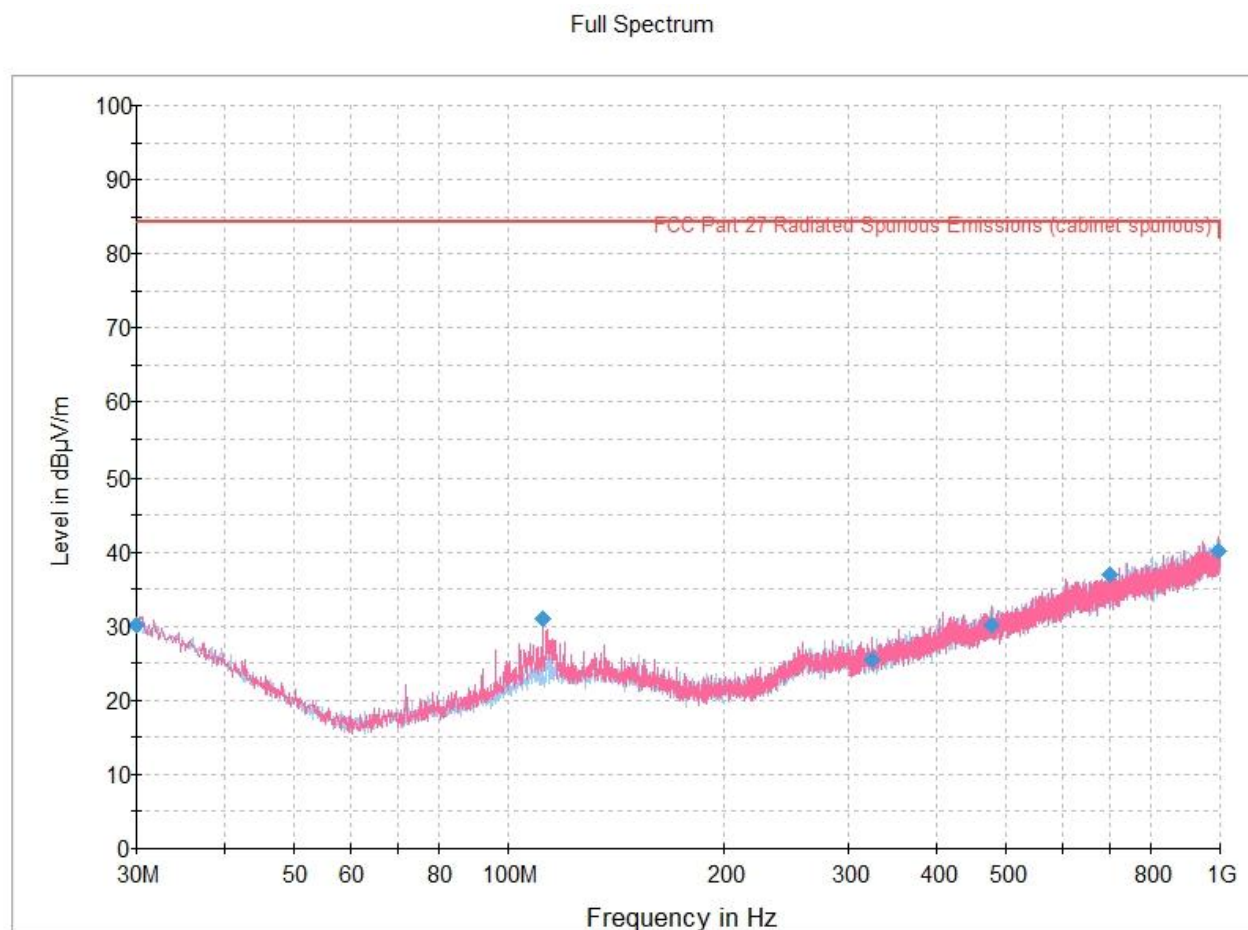


Figure 8.7-17: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1433.5MHz, 1.2MHz BW

Table 8.7-17: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.040000	30.20	84.38	54.18	5000.0	100.000	365.0	V	0.0	26.5
112.025000	31.07	84.38	53.31	5000.0	100.000	373.0	V	295.0	19.0
323.321250	25.53	84.38	58.85	5000.0	100.000	203.0	V	180.0	22.8
476.303750	30.21	84.38	54.17	5000.0	100.000	200.0	V	94.0	26.8
699.533750	36.85	84.38	47.53	5000.0	100.000	301.0	V	51.0	30.5
997.380000	40.14	84.38	44.24	5000.0	100.000	378.0	V	69.0	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

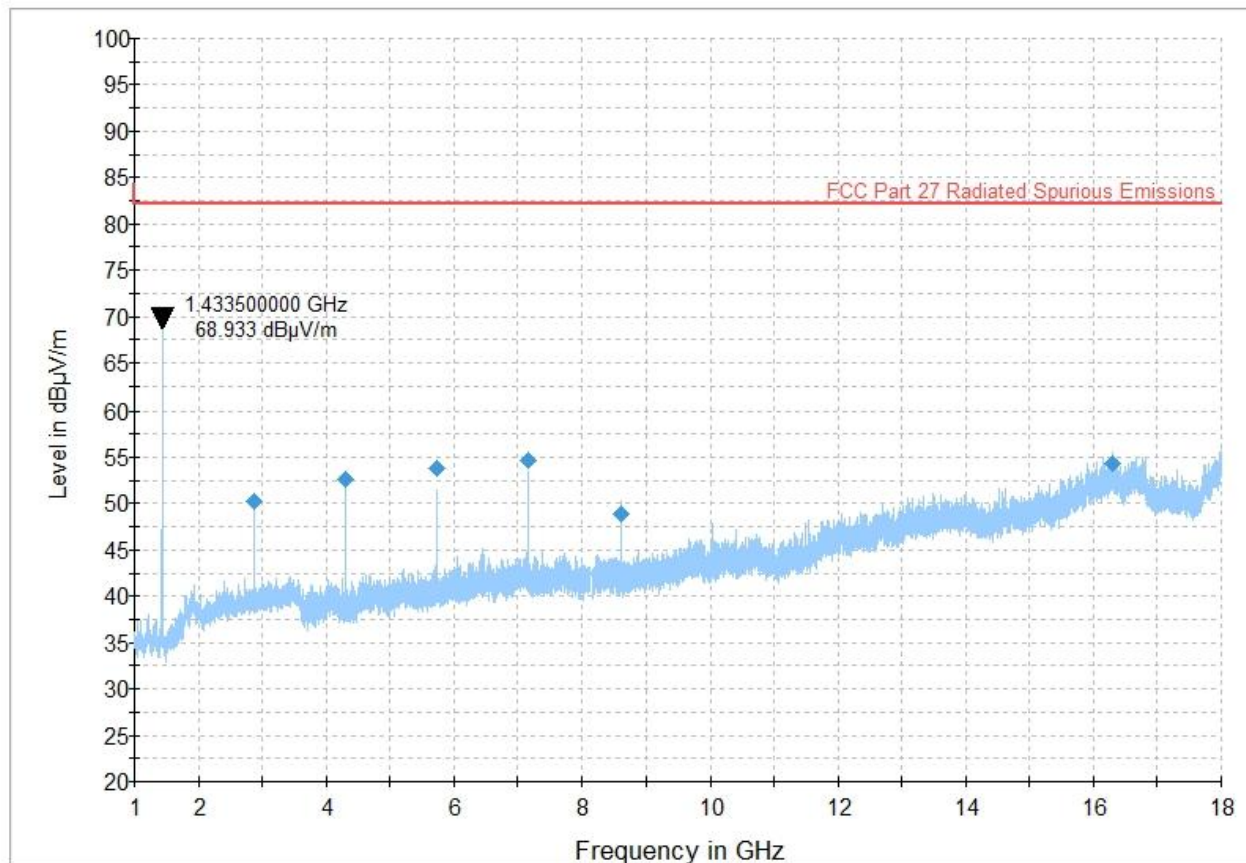


Figure 8.7-18: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1433.5MHz, 1.2MHz BW

Table 8.7-18: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2867.800000	50.17	82.23	32.06	100.0	1000.000	231.0	V	324.0	-2.5
4300.666667	52.60	82.23	29.63	100.0	1000.000	188.0	H	336.0	0.6
5734.666667	53.79	82.23	28.44	100.0	1000.000	179.0	H	134.0	4.1
7168.166667	54.59	82.23	27.64	100.0	1000.000	210.0	H	293.0	5.9
8600.533333	48.91	82.23	33.32	100.0	1000.000	195.0	H	298.0	7.4
16285.666667	54.25	82.23	27.98	100.0	1000.000	212.0	H	33.0	23.5

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.

8.7.5 Test data – 1695-1710 MHz

Radiated spurious emissions:

Figure 8.7-19: Radiated emissions spectral plot (30 MHz - 1 GHz) - Low_1696MHz, 0.05MHz BW

Table 8.7-19: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
68.428333	18.48	84.38	65.90	5000.0	100.000	197.0	V	47.0	13.5
69.392500	16.61	84.38	67.77	5000.0	100.000	378.0	H	160.0	13.6
75.314167	16.63	84.38	67.75	5000.0	100.000	339.0	H	73.0	14.5
92.469167	21.72	84.38	62.66	5000.0	100.000	148.0	V	21.0	16.7
904.663333	38.30	84.38	46.08	5000.0	100.000	194.0	H	111.0	33.4
908.970000	39.77	84.38	44.61	5000.0	100.000	216.0	H	166.0	33.3

- 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

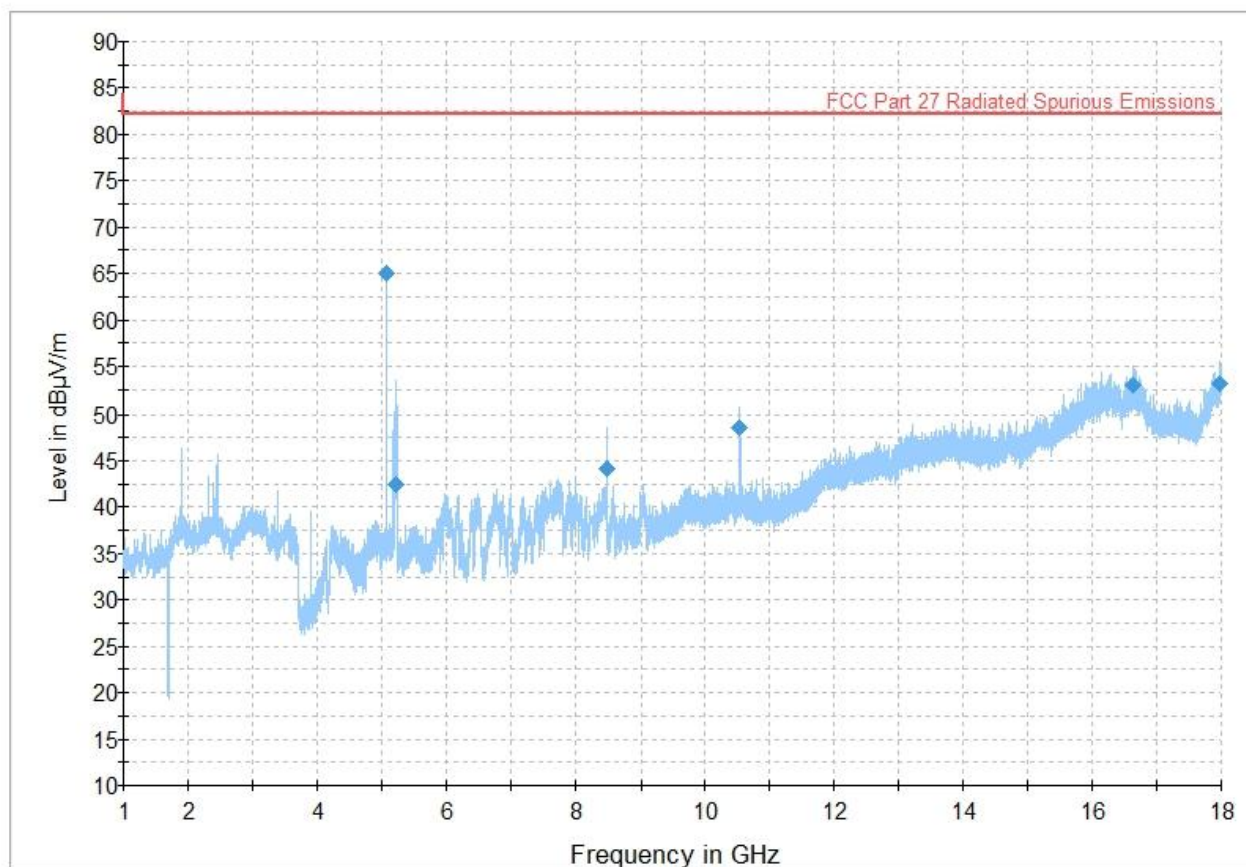


Figure 8.7-20: Radiated emissions spectral plot (1 GHz - 18 GHz) - Low_1696MHz, 0.05MHz BW

Table 8.7-20: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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5087.933333	65.07	82.23	17.16	100.0	1000.000	216.0	H	122.0	2.2
5216.233333	42.51	82.23	39.72	100.0	1000.000	401.0	H	34.0	3.0
8480.000000	44.15	82.23	38.08	100.0	1000.000	201.0	V	275.0	7.6
10534.000000	48.50	82.23	33.73	100.0	1000.000	143.0	H	26.0	11.4
16640.900000	52.98	82.23	29.25	100.0	1000.000	338.0	V	160.0	23.6
17971.466667	53.17	82.23	29.06	100.0	1000.000	140.0	V	182.0	24.1

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

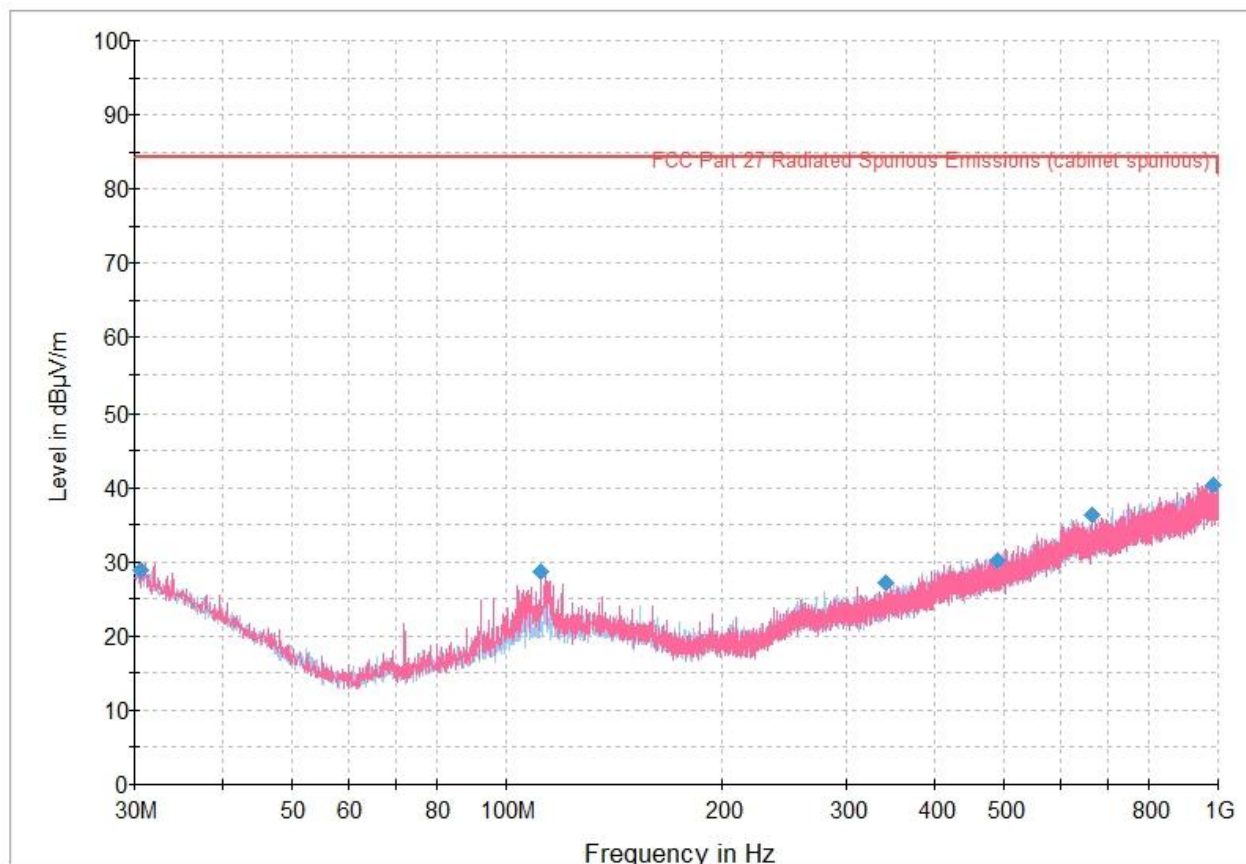


Figure 8.7-21: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1705MHz, 0.05MHz BW

Table 8.7-21: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.671667	28.96	84.38	55.42	5000.0	100.000	382.0	V	316.0	26.2
112.065000	28.57	84.38	55.81	5000.0	100.000	373.0	V	122.0	19.0
341.307500	27.26	84.38	57.12	5000.0	100.000	234.0	H	150.0	23.5
488.841667	30.06	84.38	54.32	5000.0	100.000	401.0	H	317.0	27.0
665.775000	36.40	84.38	47.98	5000.0	100.000	253.0	V	36.0	29.9
984.779167	40.35	84.38	44.03	5000.0	100.000	124.0	H	272.0	34.6

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

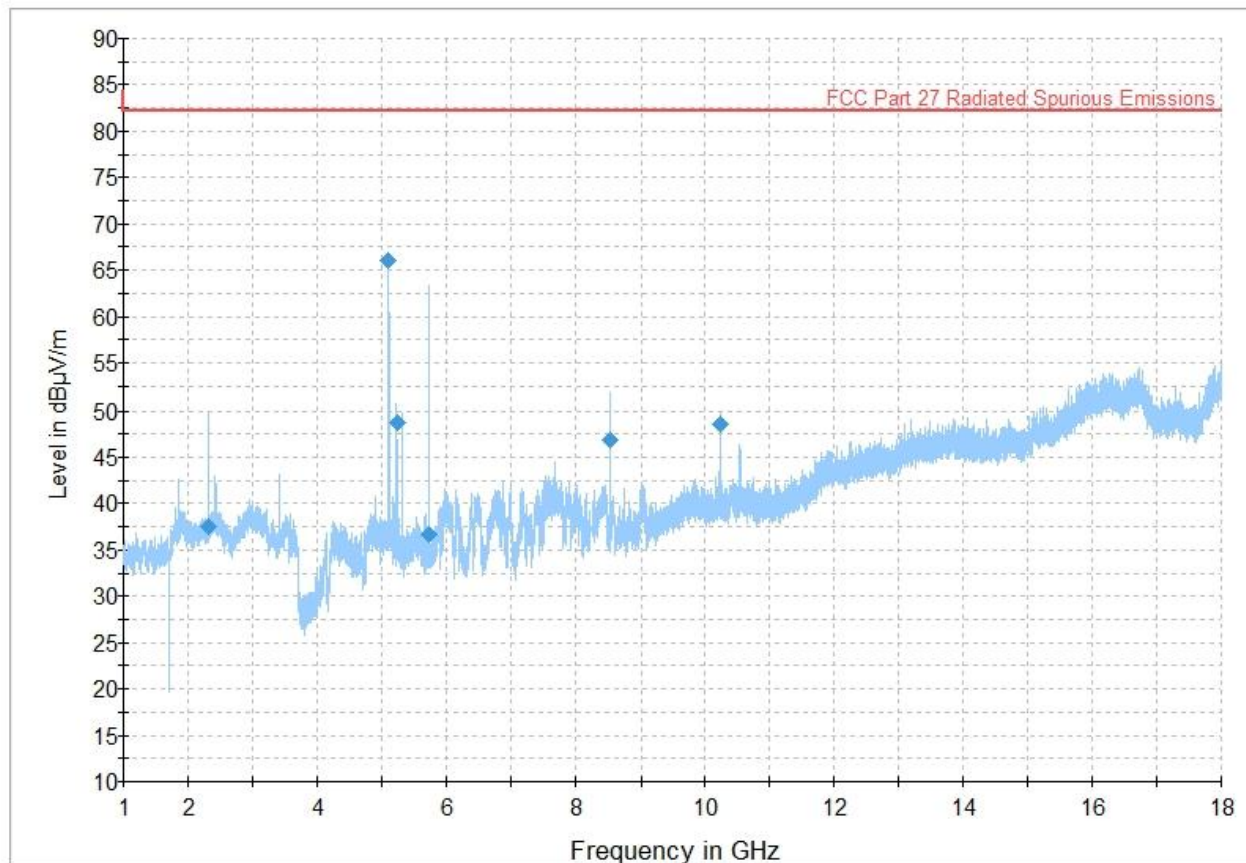


Figure 8.7-22: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1705MHz, 0.05MHz BW

Table 8.7-22: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2312.533333	37.59	82.23	44.64	100.0	1000.000	151.0	H	35.0	-4.4
5114.966667	66.11	82.23	16.12	100.0	1000.000	191.0	V	236.0	2.5
5238.066667	48.70	82.23	33.53	100.0	1000.000	255.0	H	34.0	3.1
5740.066667	36.66	82.23	45.57	100.0	1000.000	401.0	H	0.0	4.1
8525.166667	46.83	82.23	35.40	100.0	1000.000	196.0	V	260.0	7.7
10230.266667	48.64	82.23	33.59	100.0	1000.000	128.0	V	110.0	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.

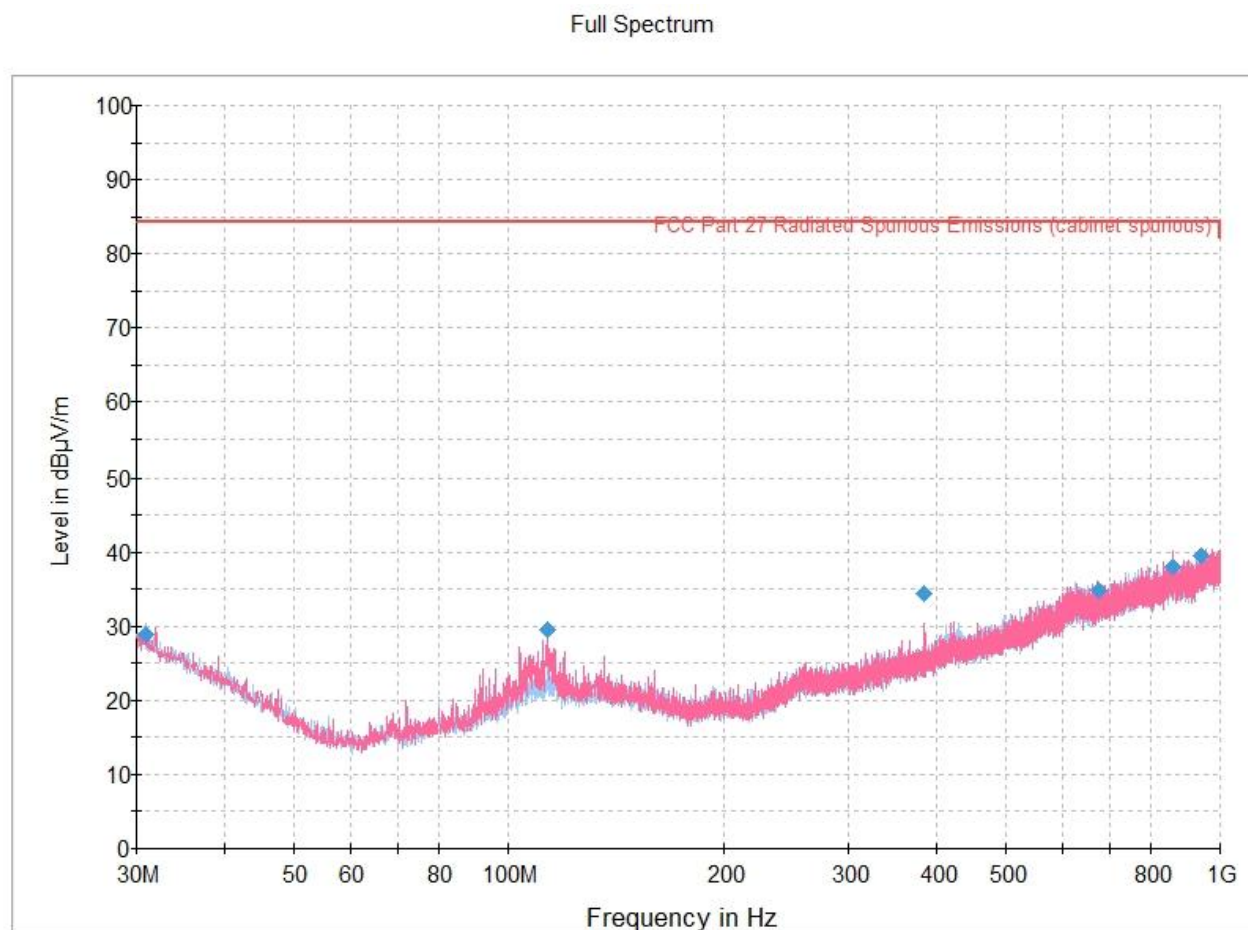


Figure 8.7-23: Radiated emissions spectral plot (30 MHz - 1 GHz) - High_1709MHz, 0.05MHz BW

Table 8.7-23: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.860000	28.90	84.38	55.48	5000.0	100.000	123.0	H	38.0	26.2
113.642500	29.50	84.38	54.88	5000.0	100.000	369.0	V	199.0	19.2
383.989167	34.43	84.38	49.95	5000.0	100.000	127.0	V	228.0	24.6
673.410833	34.82	84.38	49.56	5000.0	100.000	125.0	V	175.0	30.1
856.589167	37.98	84.38	46.40	5000.0	100.000	362.0	V	325.0	33.3
941.782500	39.49	84.38	44.89	5000.0	100.000	270.0	H	162.0	34.5

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

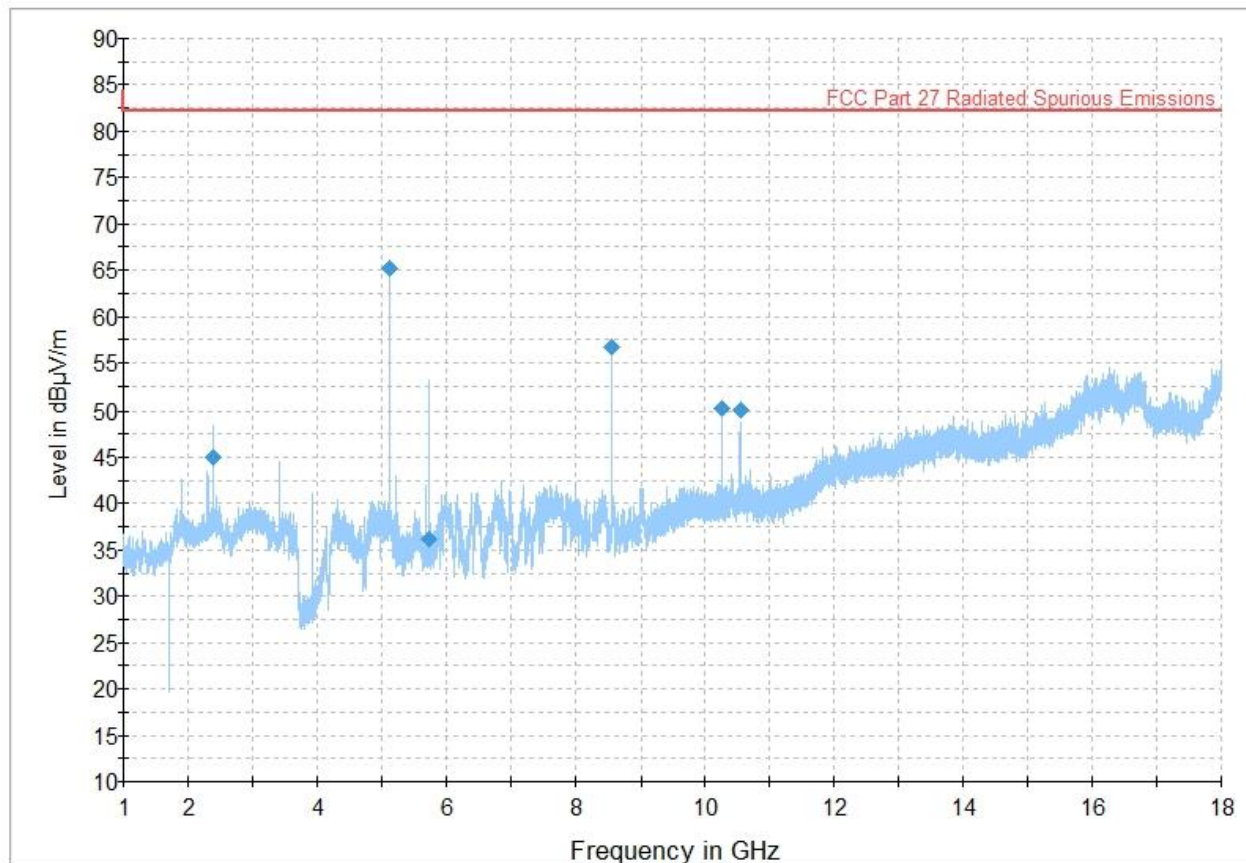


Figure 8.7-24: Radiated emissions spectral plot (1 GHz - 18 GHz) - High_1709MHz, 0.05MHz BW

Table 8.7-24: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.933333	44.96	82.23	37.27	100.0	1000.000	110.0	H	160.0	-4.0
5126.866667	65.18	82.23	17.05	100.0	1000.000	180.0	H	300.0	2.6
5739.033333	36.12	82.23	46.11	100.0	1000.000	141.0	H	343.0	4.1
8545.000000	56.68	82.23	25.55	100.0	1000.000	226.0	V	172.0	7.7
10253.833333	50.28	82.23	31.95	100.0	1000.000	206.0	V	139.0	11.0
10542.266667	50.15	82.23	32.08	100.0	1000.000	326.0	V	46.0	11.5

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.

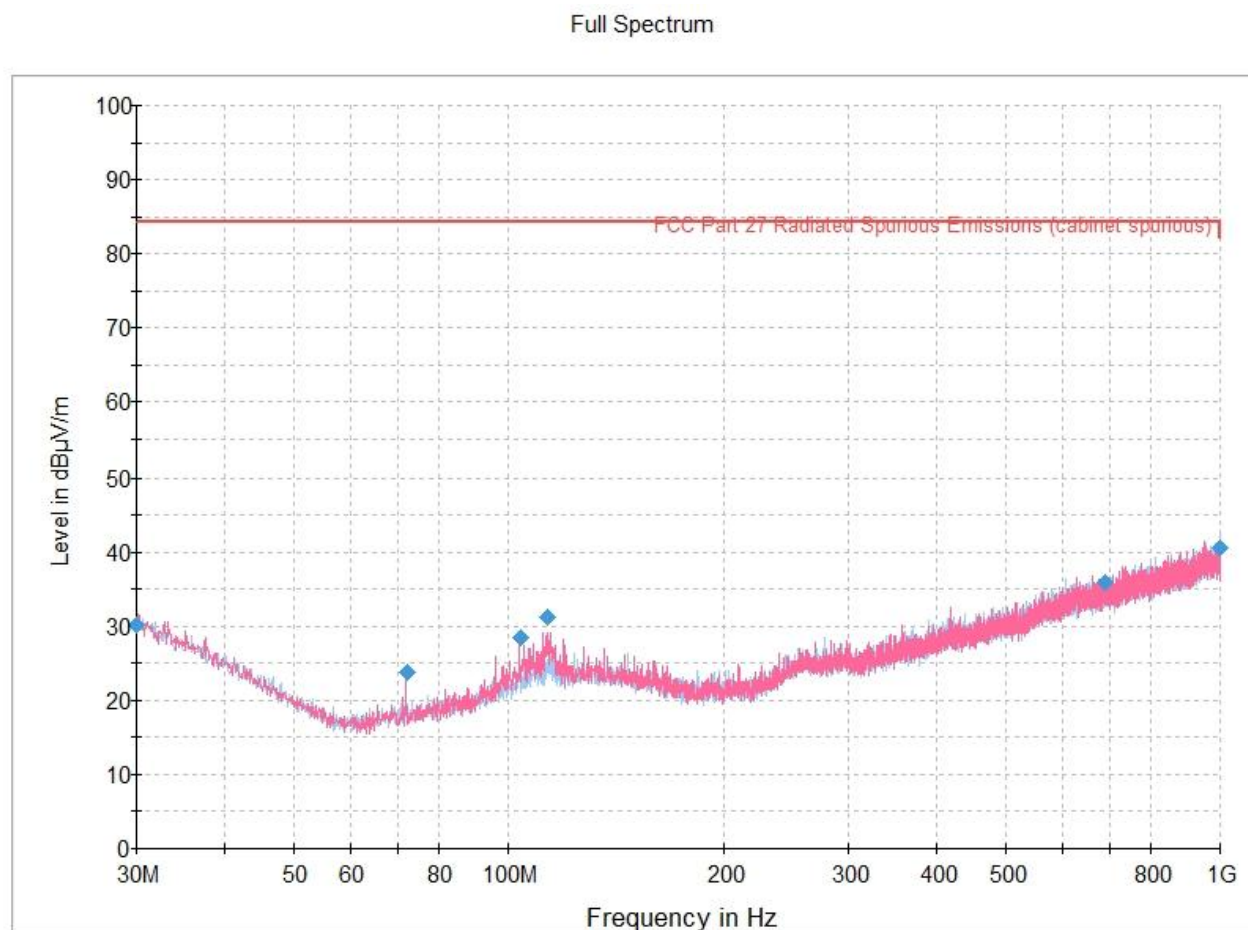


Figure 8.7-25: Radiated emissions spectral plot (30 MHz - 1 GHz) - Low_1697MHz, 1.2MHz BW

Table 8.7-25: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.040000	30.11	84.38	54.27	5000.0	100.000	110.0	V	147.0	26.5
72.011250	23.70	84.38	60.68	5000.0	100.000	327.0	V	95.0	14.1
104.021250	28.49	84.38	55.89	5000.0	100.000	377.0	V	140.0	18.4
113.641250	31.13	84.38	53.25	5000.0	100.000	349.0	V	219.0	19.2
689.182500	35.83	84.38	48.56	5000.0	100.000	401.0	H	100.0	30.5
999.606250	40.57	84.38	43.81	5000.0	100.000	200.0	H	113.0	34.8

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

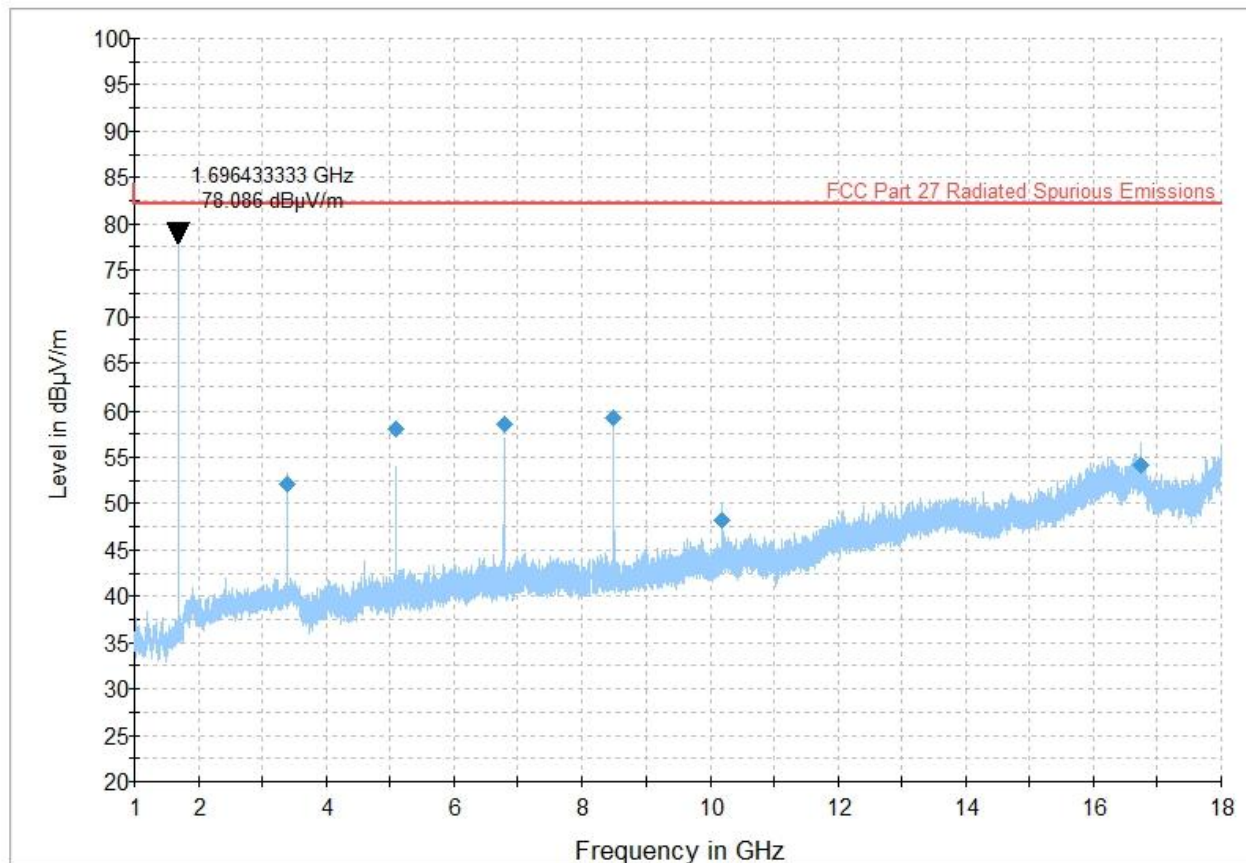


Figure 8.7-26: Radiated emissions spectral plot (1 GHz - 18 GHz) - Low_1697MHz, 1.2MHz BW

Table 8.7-26: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3394.166667	52.05	82.23	30.18	100.0	1000.000	105.0	V	333.0	-0.9
5091.566667	58.07	82.23	24.16	100.0	1000.000	211.0	H	10.0	2.2
6787.233333	58.51	82.23	23.72	100.0	1000.000	206.0	H	300.0	5.6
8485.000000	59.18	82.23	23.05	100.0	1000.000	240.0	V	131.0	7.6
10182.433333	48.11	82.23	34.12	100.0	1000.000	179.0	V	108.0	11.2
16745.733333	54.09	82.23	28.14	100.0	1000.000	166.0	H	72.0	23.4

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.

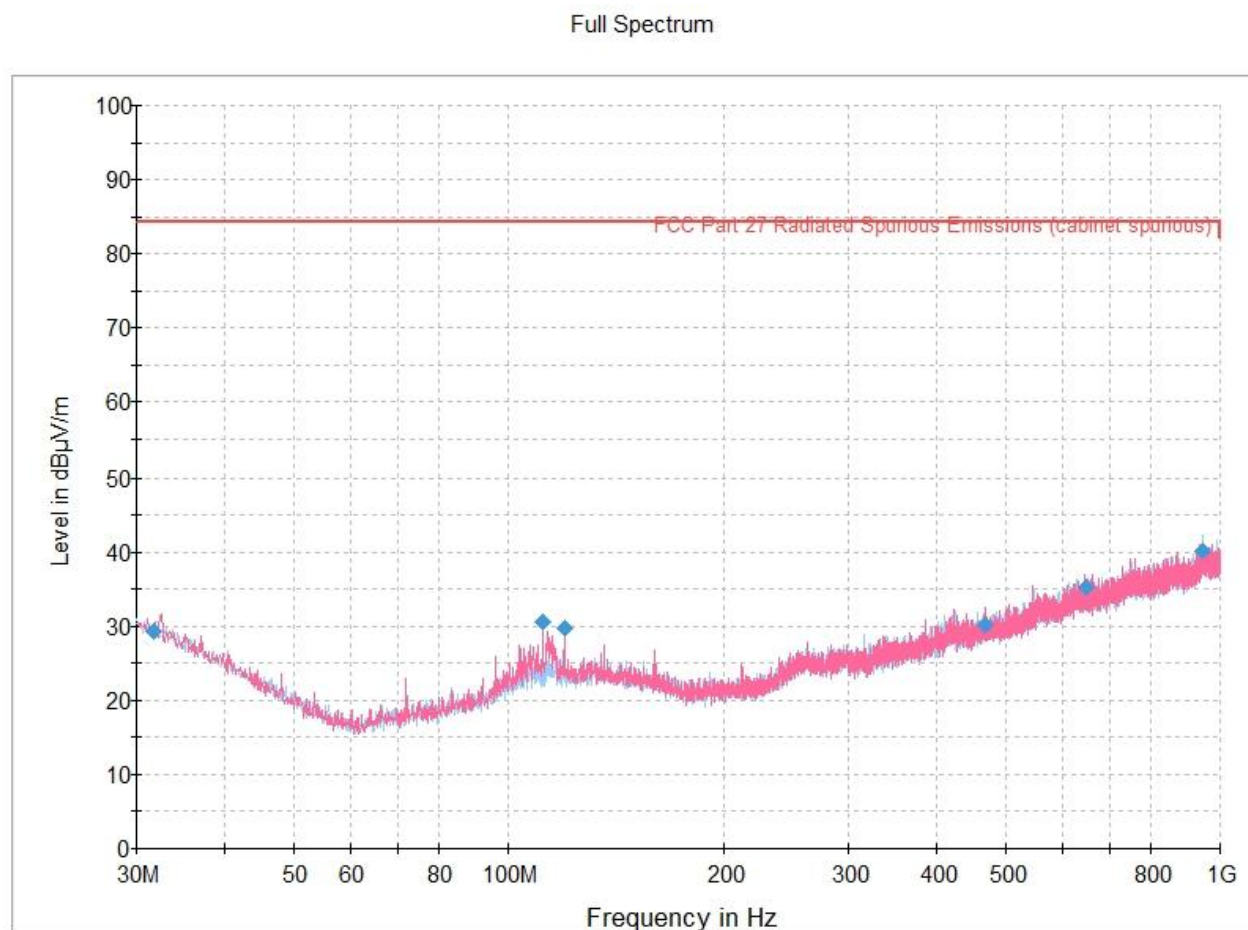


Figure 8.7-27: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1705MHz, 1.2MHz BW

Table 8.7-27: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.806250	29.23	84.38	55.15	5000.0	100.000	155.0	V	59.0	25.6
112.025000	30.51	84.38	53.87	5000.0	100.000	368.0	V	0.0	19.0
119.987500	29.64	84.38	54.74	5000.0	100.000	385.0	V	11.0	19.6
467.205000	30.05	84.38	54.33	5000.0	100.000	232.0	V	321.0	26.6
646.442500	35.27	84.38	49.11	5000.0	100.000	132.0	V	182.0	29.9
946.796250	40.16	84.38	44.22	5000.0	100.000	255.0	H	92.0	34.8

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

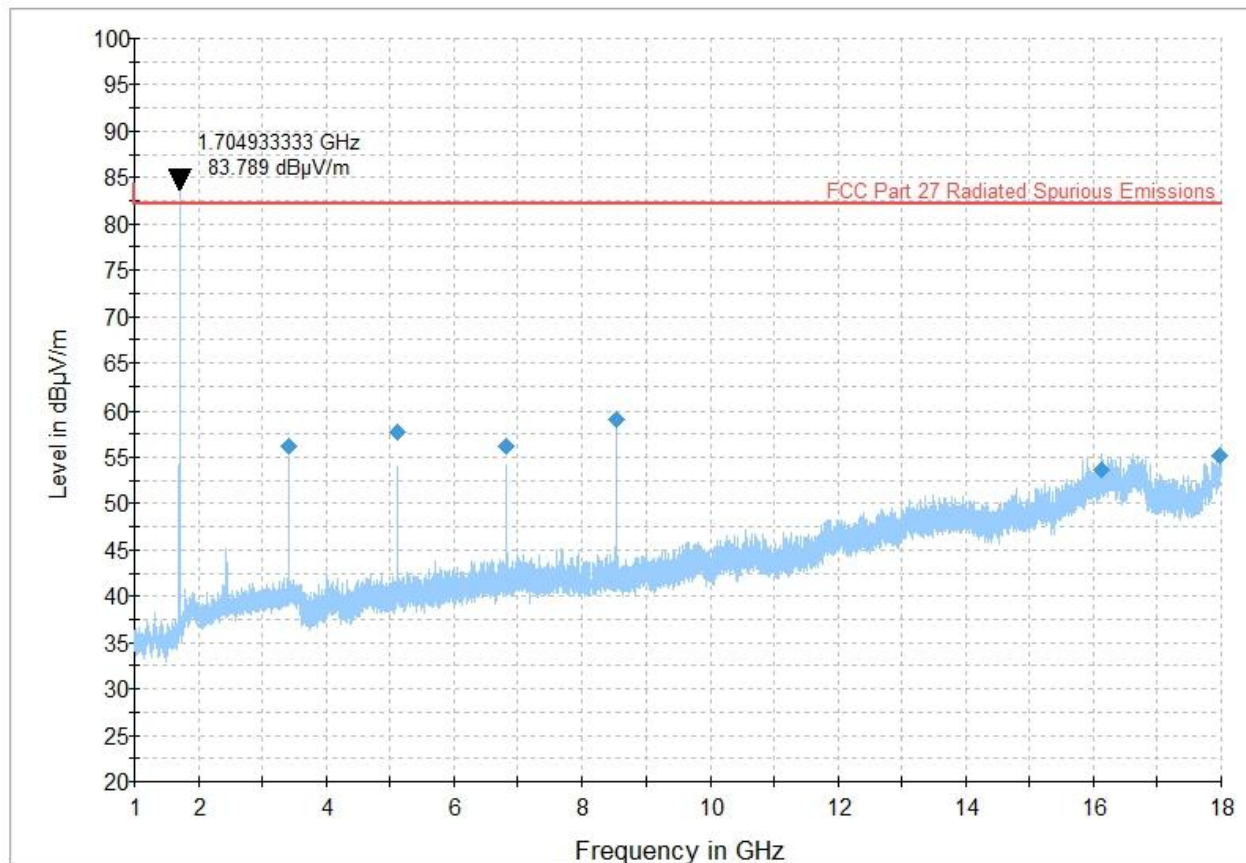


Figure 8.7-28: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1705MHz, 1.2MHz BW

Table 8.7-28: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3409.233333	56.23	82.23	26.00	100.0	1000.000	138.0	H	296.0	-0.9
5115.366667	57.64	82.23	24.59	100.0	1000.000	250.0	H	34.0	2.5
6819.500000	56.25	82.23	25.98	100.0	1000.000	206.0	V	302.0	5.5
8525.700000	59.10	82.23	23.13	100.0	1000.000	246.0	V	159.0	7.7
16121.566667	53.68	82.23	28.55	100.0	1000.000	174.0	V	33.0	22.6
17969.033333	55.17	82.23	27.06	100.0	1000.000	103.0	V	0.0	24.0

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.

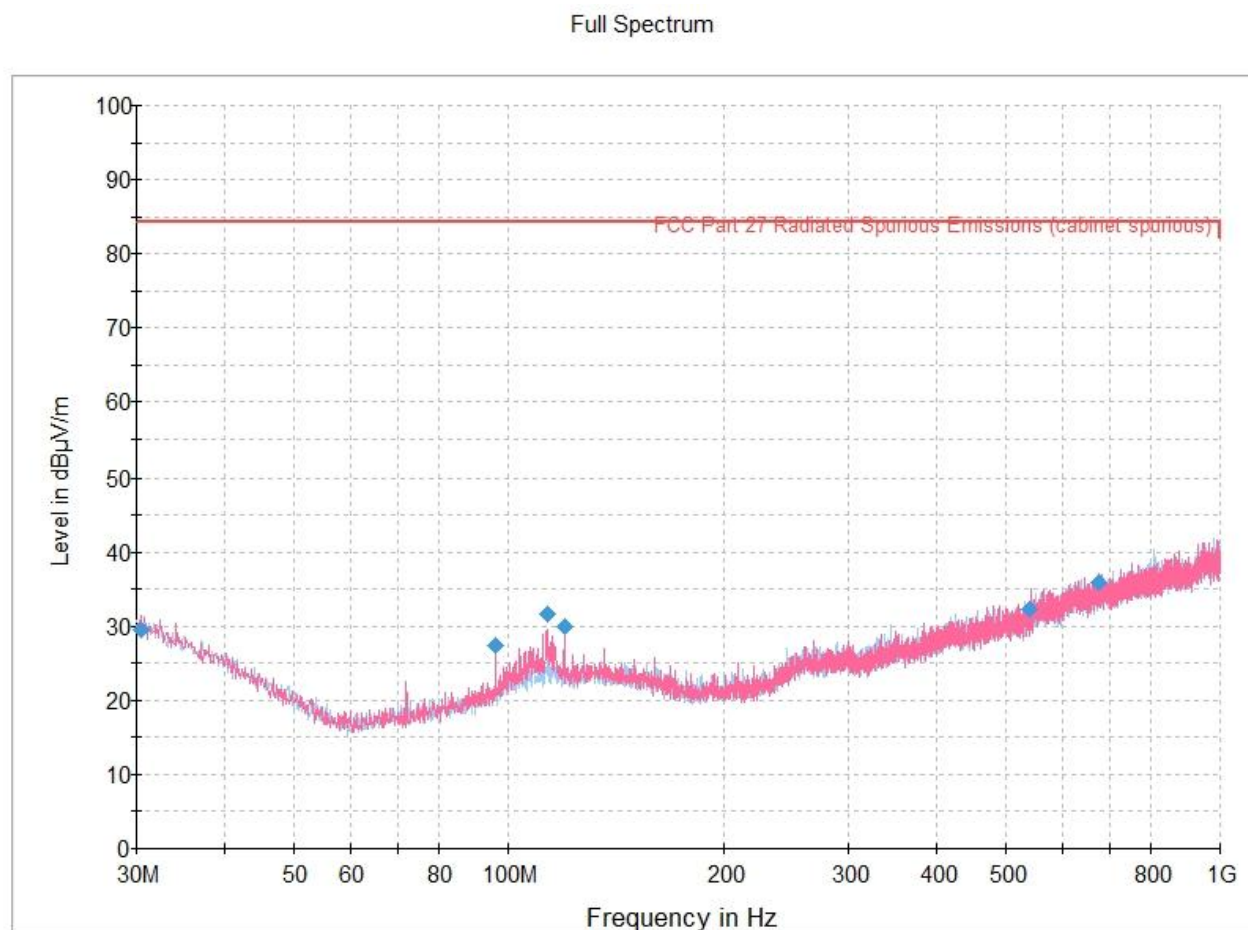


Figure 8.7-29: Radiated emissions spectral plot (30 MHz - 1 GHz) - High_1708MHz, 1.2MHz BW

Table 8.7-29: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.440000	29.57	84.38	54.81	5000.0	100.000	273.0	V	227.0	26.4
96.021250	27.35	84.38	57.03	5000.0	100.000	271.0	V	298.0	17.2
113.641250	31.67	84.38	52.71	5000.0	100.000	382.0	V	306.0	19.2
119.987500	29.96	84.38	54.42	5000.0	100.000	401.0	V	237.0	19.6
540.012500	32.32	84.38	52.06	5000.0	100.000	295.0	V	0.0	27.9
676.366250	35.96	84.38	48.42	5000.0	100.000	388.0	H	136.0	30.2

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

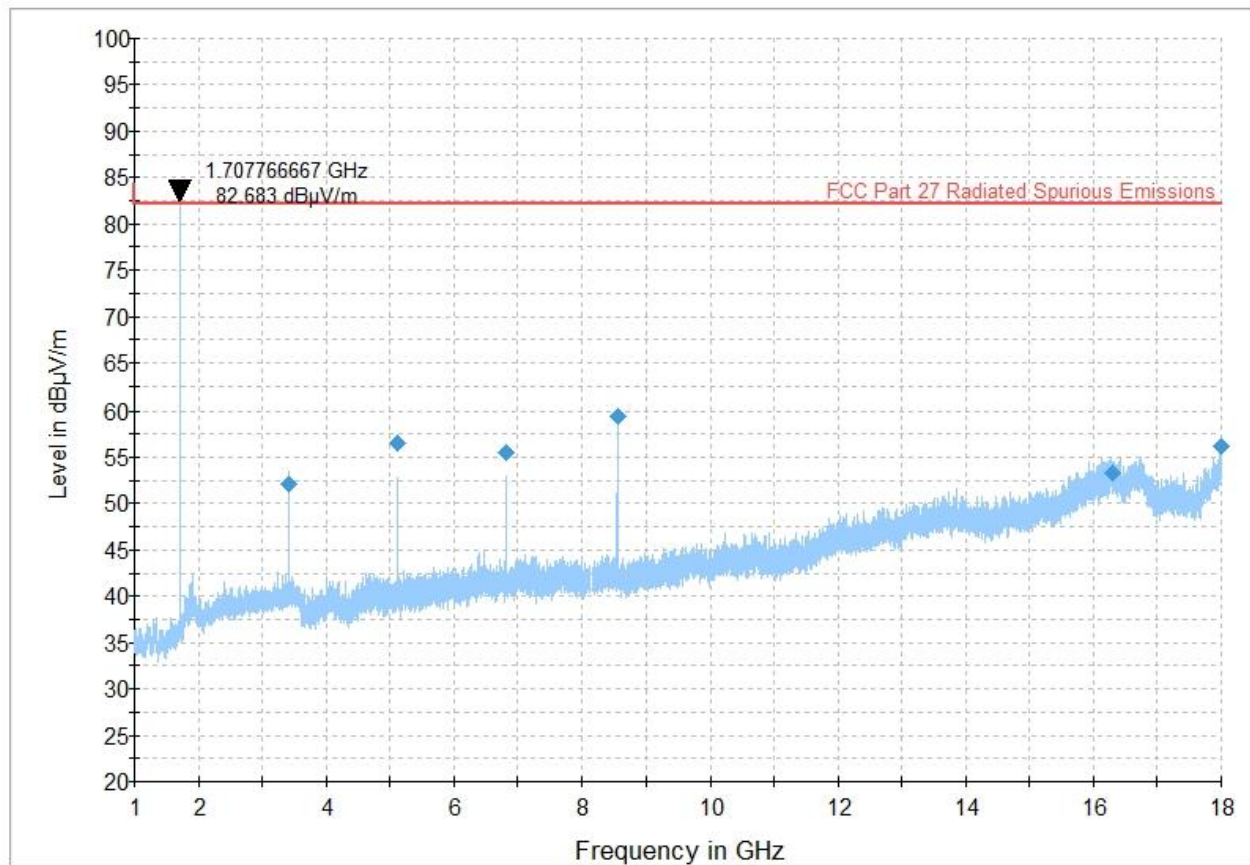


Figure 8.7-30: Radiated emissions spectral plot (1 GHz - 18 GHz) - High_1708MHz, 1.2MHz BW

Table 8.7-30: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3415.866667	52.03	82.23	30.20	100.0	1000.000	166.0	V	333.0	-0.9
5124.500000	56.52	82.23	25.71	100.0	1000.000	118.0	V	0.0	2.6
6831.966667	55.46	82.23	26.77	100.0	1000.000	206.0	V	298.0	5.5
8540.066667	59.34	82.23	22.89	100.0	1000.000	253.0	V	163.0	7.7
16285.233333	53.34	82.23	28.89	100.0	1000.000	378.0	H	174.0	23.5
17994.933333	56.12	82.23	26.11	100.0	1000.000	129.0	H	337.0	24.8

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.

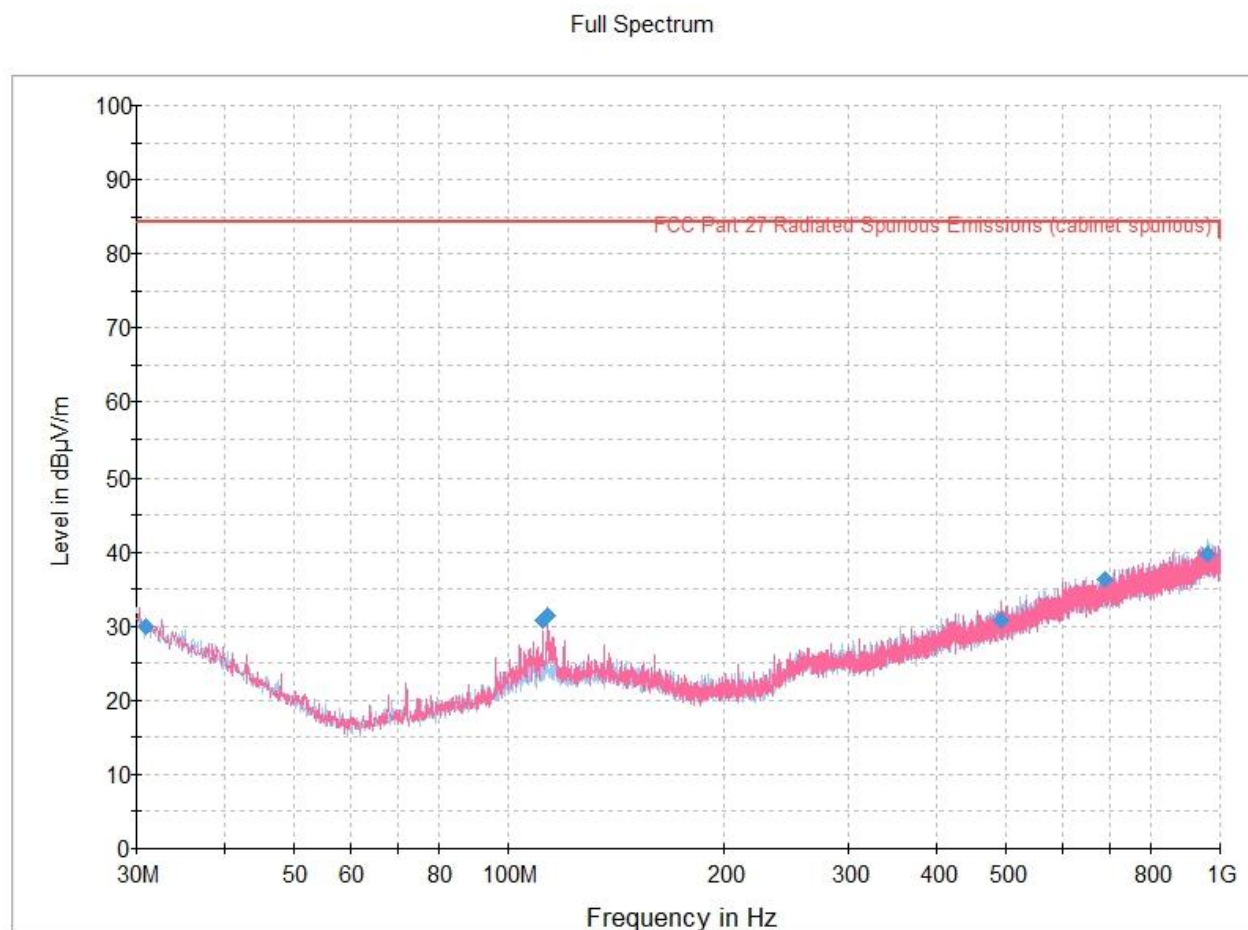


Figure 8.7-31: Radiated emissions spectral plot (30 MHz - 1 GHz) - Low_1699MHz, 3.6MHz BW

Table 8.7-31: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.960000	29.85	84.38	54.53	5000.0	100.000	232.0	V	208.0	26.1
112.025000	30.81	84.38	53.57	5000.0	100.000	382.0	V	174.0	19.0
113.641250	31.51	84.38	52.87	5000.0	100.000	384.0	V	310.0	19.2
492.147500	30.82	84.38	53.56	5000.0	100.000	221.0	V	154.0	27.0
689.263750	36.24	84.38	48.14	5000.0	100.000	279.0	H	101.0	30.5
962.058750	39.72	84.38	44.66	5000.0	100.000	219.0	H	212.0	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

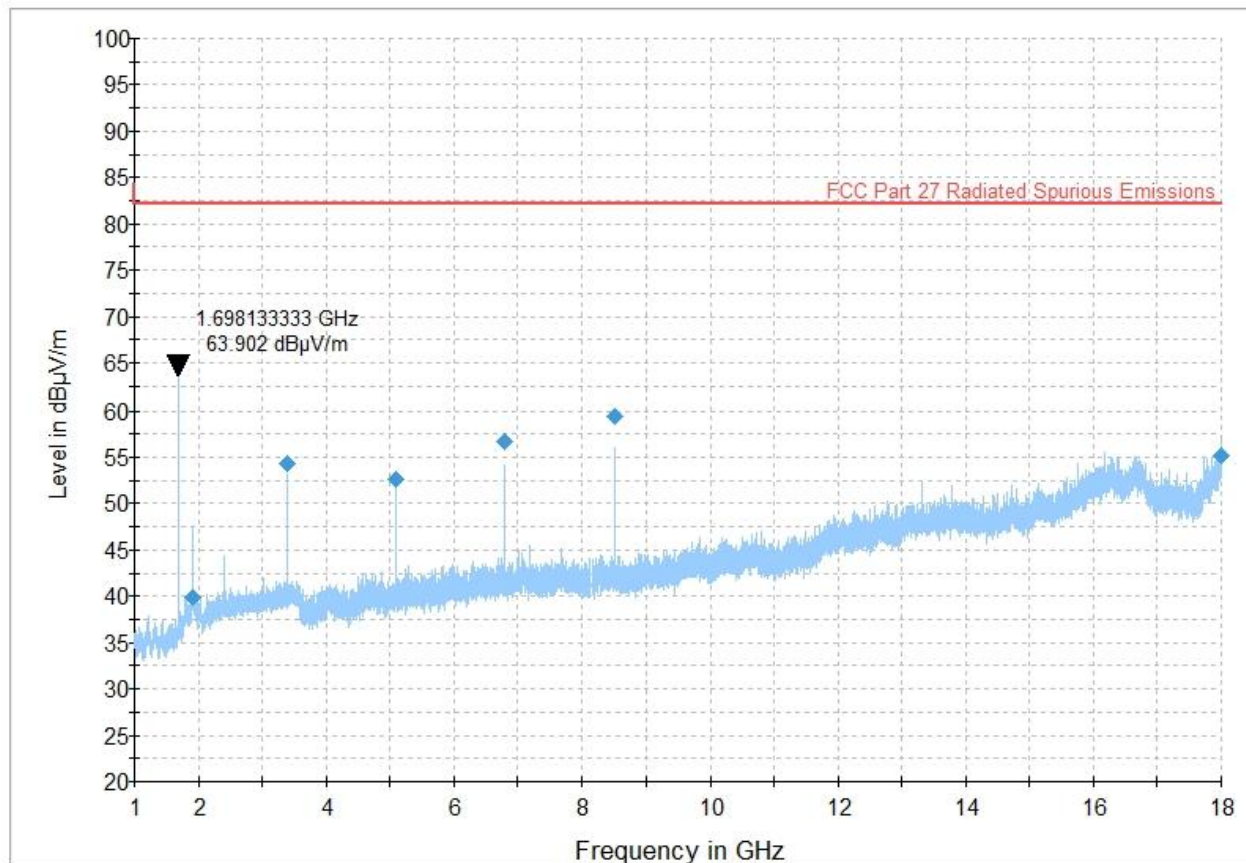


Figure 8.7-32: Radiated emissions spectral plot (1 GHz - 18 GHz) - Low_1699MHz, 3.6MHz BW

Table 8.7-32: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1913.966667	39.94	82.23	42.29	100.0	1000.000	296.0	H	234.0	-5.4
3399.866667	54.28	82.23	27.95	100.0	1000.000	102.0	V	0.0	-0.9
5094.066667	52.63	82.23	29.60	100.0	1000.000	288.0	H	213.0	2.3
6799.833333	56.71	82.23	25.52	100.0	1000.000	206.0	V	288.0	5.5
8490.200000	59.41	82.23	22.82	100.0	1000.000	227.0	V	124.0	7.6
17996.200000	55.12	82.23	27.11	100.0	1000.000	237.0	V	175.0	24.9

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.

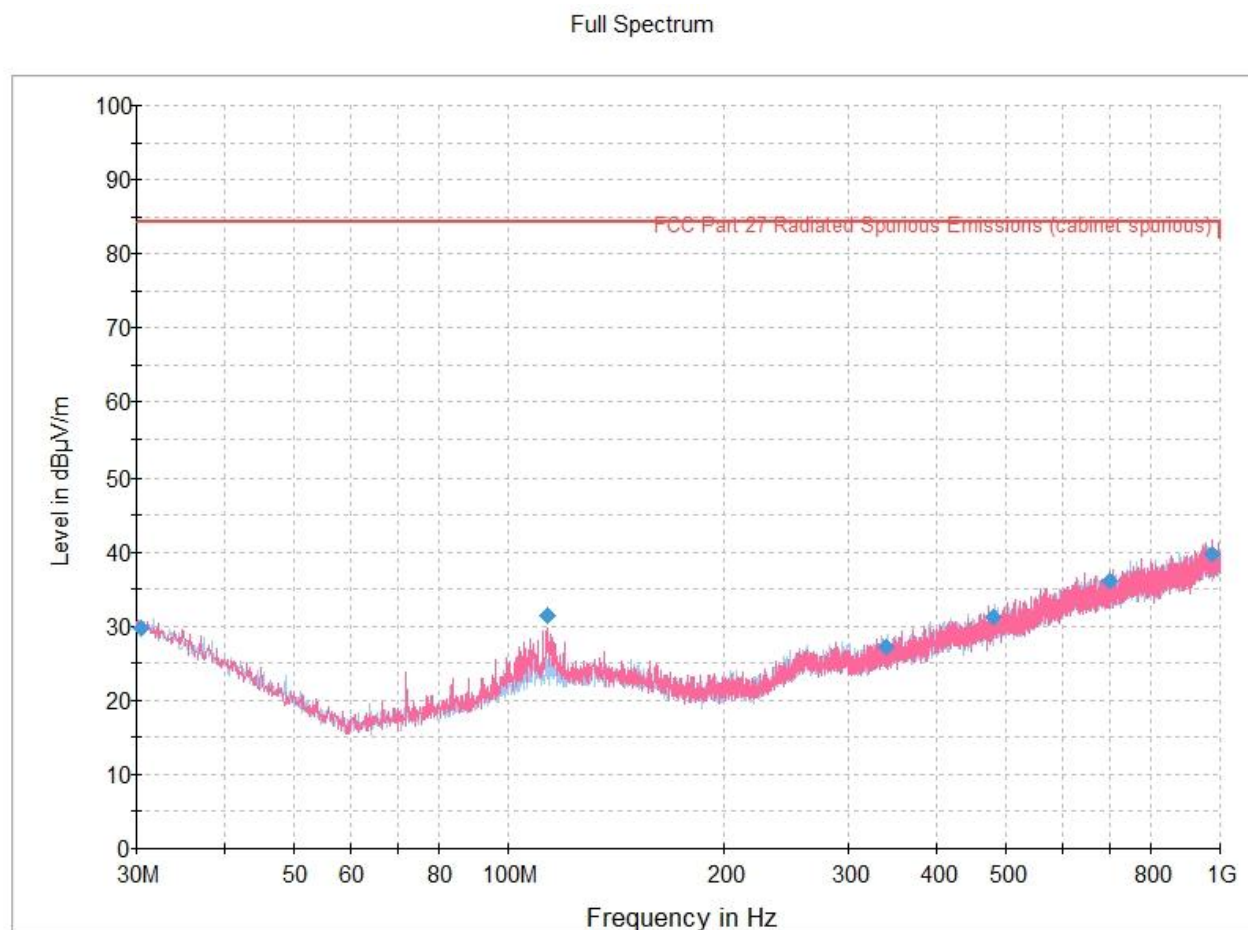


Figure 8.7-33: Radiated emissions spectral plot (30 MHz - 1 GHz) - Mid_1705MHz, 3.6MHz BW

Table 8.7-33: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.437500	29.77	84.38	54.61	5000.0	100.000	311.0	H	156.0	26.4
113.642500	31.37	84.38	53.01	5000.0	100.000	385.0	V	36.0	19.2
338.535000	27.13	84.38	57.25	5000.0	100.000	300.0	H	356.0	23.4
479.748750	31.15	84.38	53.23	5000.0	100.000	386.0	H	337.0	26.9
697.831250	36.03	84.38	48.35	5000.0	100.000	105.0	V	47.0	30.5
976.903750	39.75	84.38	44.64	5000.0	100.000	398.0	V	156.0	34.4

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

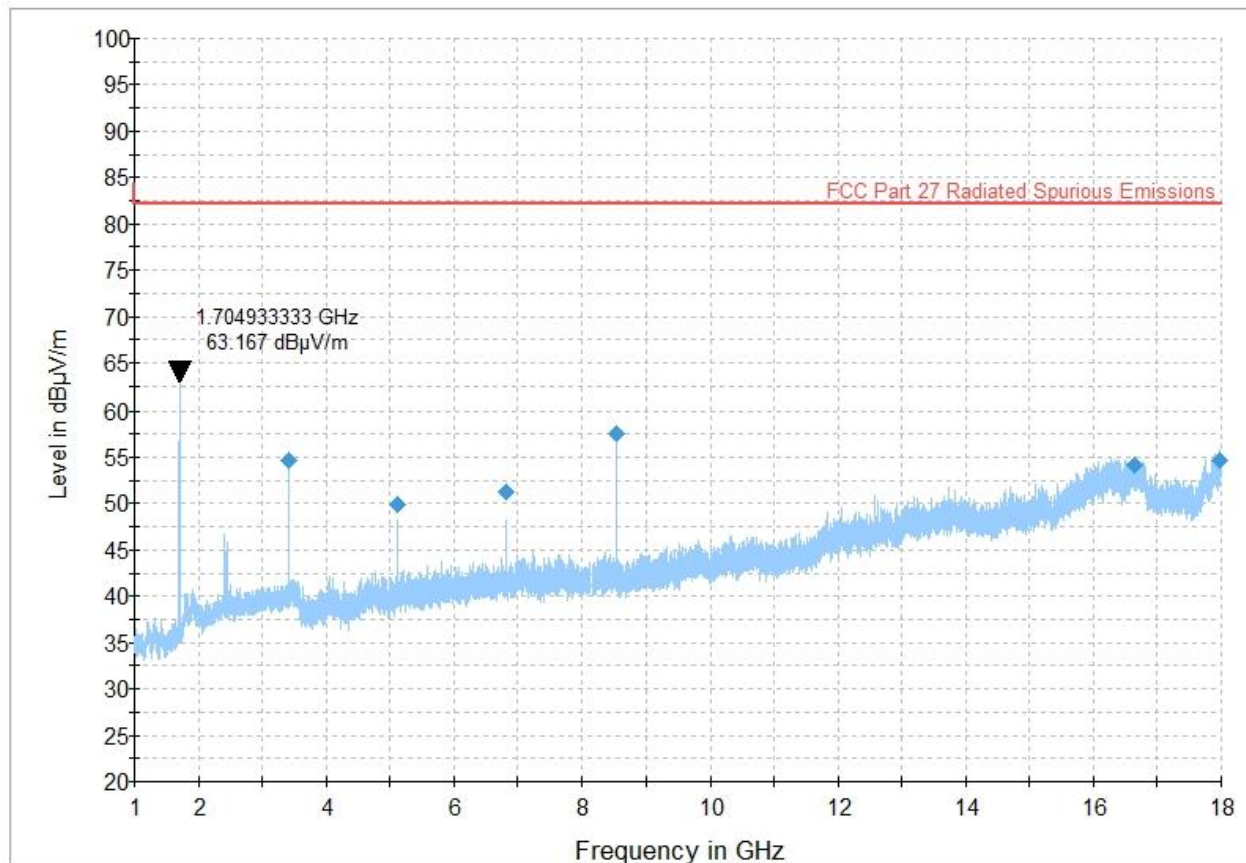


Figure 8.7-34: Radiated emissions spectral plot (1 GHz - 18 GHz) - Mid_1705MHz, 3.6MHz BW

Table 8.7-34: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3412.133333	54.62	82.23	27.61	100.0	1000.000	99.0	V	336.0	-0.9
5112.133333	49.96	82.23	32.27	100.0	1000.000	288.0	H	184.0	2.4
6823.233333	51.19	82.23	31.04	100.0	1000.000	227.0	V	258.0	5.5
8529.866667	57.59	82.23	24.64	100.0	1000.000	193.0	V	96.0	7.7
16635.366667	54.11	82.23	28.12	100.0	1000.000	205.0	V	276.0	23.6
17973.400000	54.71	82.23	27.52	100.0	1000.000	206.0	H	312.0	24.2

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.

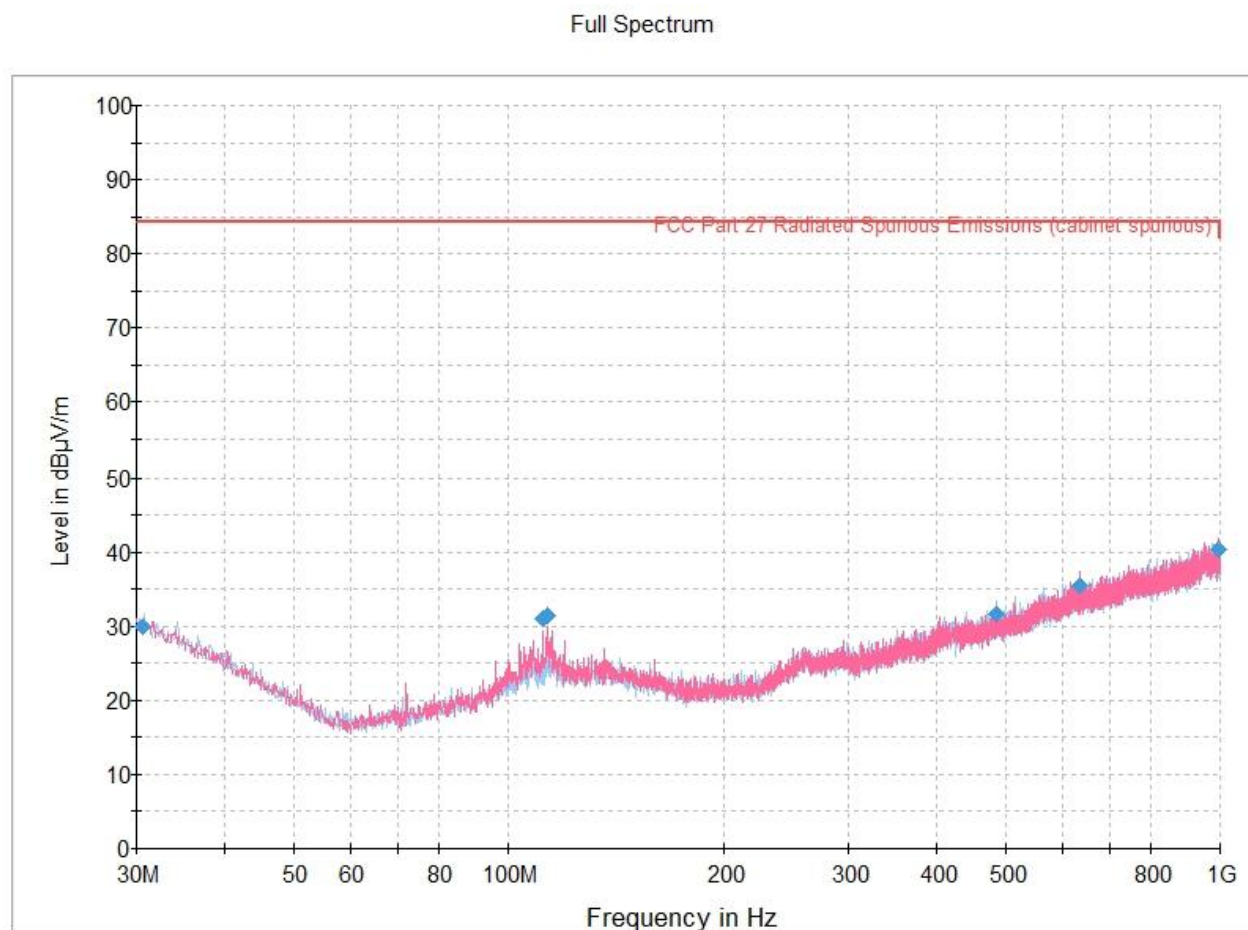


Figure 8.7-35: Radiated emissions spectral plot (30 MHz - 1 GHz) - High_1706MHz, 3.6MHz BW

Table 8.7-35: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.600000	29.90	84.38	54.48	5000.0	100.000	389.0	H	18.0	26.3
112.025000	31.01	84.38	53.37	5000.0	100.000	401.0	V	0.0	19.0
113.642500	31.46	84.38	52.92	5000.0	100.000	401.0	V	279.0	19.2
483.260000	31.53	84.38	52.85	5000.0	100.000	299.0	H	0.0	27.0
635.627500	35.40	84.38	48.98	5000.0	100.000	326.0	V	119.0	29.9
994.166250	40.40	84.38	43.98	5000.0	100.000	322.0	V	164.0	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

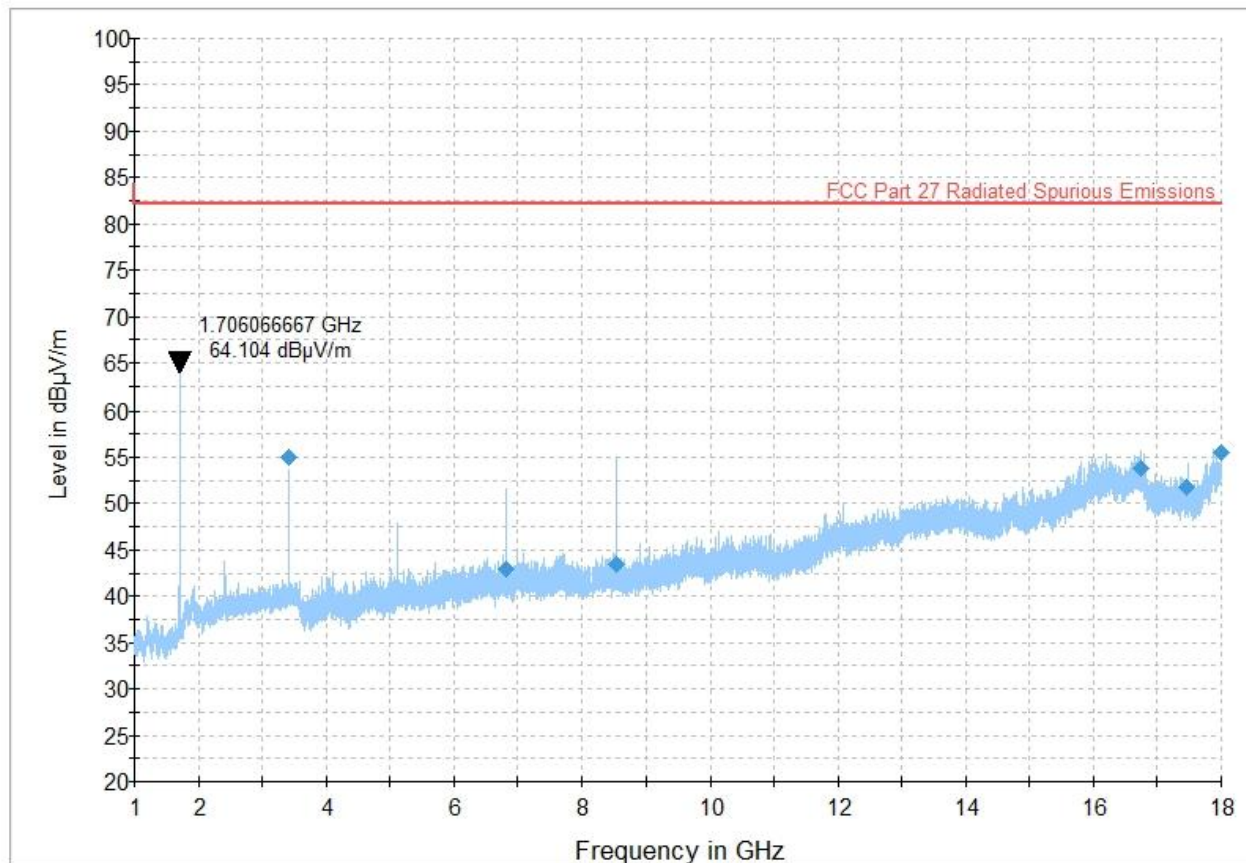


Figure 8.7-36: Radiated emissions spectral plot (1 GHz - 18 GHz) - High_1706MHz, 3.6MHz BW

Table 8.7-36: Radiated emissions results

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3414.133333	55.04	82.23	27.19	100.0	1000.000	99.0	V	11.0	-0.9
6824.466667	43.00	82.23	39.23	100.0	1000.000	231.0	V	10.0	5.5
8534.266667	43.45	82.23	38.78	100.0	1000.000	393.0	V	345.0	7.7
16746.566667	53.87	82.23	28.36	100.0	1000.000	103.0	V	318.0	23.4
17469.133333	51.78	82.23	30.45	100.0	1000.000	302.0	V	185.0	19.9
17995.200000	55.42	82.23	26.81	100.0	1000.000	324.0	V	34.0	24.8

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.

8.8 FCC 27.54 Frequency stability

8.8.1 References and limits

- FCC 47 CFR Part 27: §27.54
- Test method: ANSI C63.26: 2015 §5.6.3

§27.54:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

8.8.2 Test summary

Verdict	Pass		
Test date	January 21, 2026	Temperature	20 °C
Test engineer	Lan Sayasane, Sr. EMC Test Engineer	Air pressure	1010 mbar
Test location	☐ Wireless bench (conducted tests)	Relative humidity	52 %
	☐ 10 m semi-anechoic chamber (radiated tests)		
	☐ 3 m semi-anechoic chamber (radiated tests)		
	☒ Other: Temperature Chamber		

8.8.3 Observations, settings and special notes

The signal was exercised in CW mode, using one channel as representative case. The ppm was calculated using the equation:

$$ppm = \left[\frac{(Reference\ Frequency - Tested\ Frequency)}{Reference\ Frequency} \right] * 1000000$$

Based on the measured frequency drift, the fundamental emission is confirmed to be inside the allocated band in all cases.

8.8.4 Setup details

EUT power input during test	Battery 3-4.2 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	Single sweep
Sweep	Marker function – signal count

8.8.5 Test data

Table 8.8-1: FCC 27.54 Frequency stability results, 1390-1395 MHz operation

Temperature (°C)	Voltage (V)	Center Frequency (MHz)	Frequency Error			
			ppm	ppm (2 min)	ppm (5 min)	ppm (10 min)
-30	Battery 3-4.2 Vdc	1392.5	96.84	-43.78	1.44	21.55
-20	Battery 3-4.2 Vdc	1392.5	65.29	75.30	71.74	-116.22
-10	Battery 3-4.2 Vdc	1392.5	88.95	17.92	-27.97	25.10
0	Battery 3-4.2 Vdc	1392.5	-87.50	-13.62	15.78	-38.02
+10	Battery 3-4.2 Vdc	1392.5	82.51	-20.08	-117.65	26.52
+20	Battery 3-4.2 Vdc	1392.5	-168.59	-80.33	99.75	-244.61
+20	10% Battery	1392.5	-180.81	-161.42	-137.04	-127.68
+30	Battery 3-4.2 Vdc	1392.5	220.23	6.45	254.69	218.81
+40	Battery 3-4.2 Vdc	1392.5	167.88	5.74	344.38	11.51
+50	Battery 3-4.2 Vdc	1392.5	-5.02	-65.26	-7.90	-86.10

The worst-case frequency error observed is -244.61 ppm, corresponding to a frequency deviation of 340.619 kHz.

Assuming operation at the lowest operating frequency (1391 MHz) and the maximum measured occupied bandwidth of 0.053 MHz, then the lower edge of the occupied bandwidth is $1391 \text{ MHz} - (0.053 \text{ MHz} / 2) = 1390.9735 \text{ MHz}$.

Adding in the worst case frequency error gives the lower edge of the occupied bandwidth as: $1390.9735 - 0.340619 = 1390.63 \text{ MHz}$. This illustrates that the fundamental emission stays within the authorized operational frequency band of 1390 – 1395 MHz. Similar calculations for high channel and other nominal channel bandwidths yield the same conclusion.

Table 8.8-2: FCC 27.54 Frequency stability results, 1432-1435 MHz operation

Temperature (°C)	Voltage (V)	Center Frequency (MHz)	Frequency Error			
			ppm	ppm (2 min)	ppm (5 min)	ppm (10 min)
-30	Battery 3-4.2 Vdc	1433.5	0.69	-86.42	82.24	19.52
-20	Battery 3-4.2 Vdc	1433.5	77.36	-31.38	68.29	13.23
-10	Battery 3-4.2 Vdc	1433.5	-111.50	-32.08	-30.67	112.92
0	Battery 3-4.2 Vdc	1433.5	-21.60	45.29	53.68	-49.51
+10	Battery 3-4.2 Vdc	1433.5	31.35	43.89	62.03	13.93
+20	Battery 3-4.2 Vdc	1433.5	24.39	33.44	-18.11	-21.59
+20	10% Battery	1433.5	16.73	-6.27	-34.18	18.10
+30	Battery 3-4.2 Vdc	1433.5	-35.57	-18.77	-14.63	-79.47
+40	Battery 3-4.2 Vdc	1433.5	7.65	-44.60	22.97	14.66
+50	Battery 3-4.2 Vdc	1433.5	39.03	-43.20	-13.23	114.29

The worst-case frequency error observed is -114.29 ppm, corresponding to a frequency deviation of 163.835 kHz.

Assuming operation at the lowest operating frequency (1433 MHz) and the maximum measured occupied bandwidth of 0.053 MHz, then the lower edge of the occupied bandwidth is $1433 \text{ MHz} - (0.053 \text{ MHz} / 2) = 1432.9735 \text{ MHz}$.

Adding in the worst case frequency error gives the lower edge of the occupied bandwidth as: $1432.9735 - 0.163835 = 1432.81 \text{ MHz}$. This illustrates that the fundamental emission stays within the authorized operational frequency band of 1432-1435 MHz. Similar calculations for high channel and other nominal channel bandwidths yield the same conclusion.

Table 8.8-3: FCC 27.54 Frequency stability results, 1695-1710 MHz operation

Temperature (°C)	Voltage (V)	Center Frequency (MHz)	Frequency Error			
			ppm	ppm (2 min)	ppm (5 min)	ppm (10 min)
-30	Battery 3-4.2 Vdc	1705	-6.44	-11.72	-91.97	-55.07
-20	Battery 3-4.2 Vdc	1705	9.36	41.02	36.90	-47.46
-10	Battery 3-4.2 Vdc	1705	-31.62	-1.18	76.16	-18.18
0	Battery 3-4.2 Vdc	1705	-25.79	9.95	35.72	23.42
+10	Battery 3-4.2 Vdc	1705	40.41	-4.68	57.41	72.07
+20	Battery 3-4.2 Vdc	1705	-85.54	92.00	-55.66	-89.06
+20	10% Battery	1705	5.87	-4.70	5.30	39.87
+30	Battery 3-4.2 Vdc	1705	123.05	217.96	91.43	4.69
+40	Battery 3-4.2 Vdc	1705	-17.00	-85.53	25.20	-137.69
+50	Battery 3-4.2 Vdc	1705	-34.56	-70.89	-133.00	-8.20

The worst-case frequency error observed is -217.96 ppm, corresponding to a frequency deviation of 371.622 kHz.

Assuming operation at the lowest operating frequency (1696 MHz) and the maximum measured occupied bandwidth of 0.053 MHz, then the lower edge of the occupied bandwidth is $1696 \text{ MHz} - (0.053 \text{ MHz} / 2) = 1695.9735 \text{ MHz}$.

Adding in the worst case frequency error gives the lower edge of the occupied bandwidth as: $1695.9735 - 0.371622 = 1695.61 \text{ MHz}$. This illustrates that the fundamental emission stays within the authorized operational frequency band of 1432-1435 MHz. Similar calculations for high channel and other nominal channel bandwidths yield the same conclusion.

End of test report