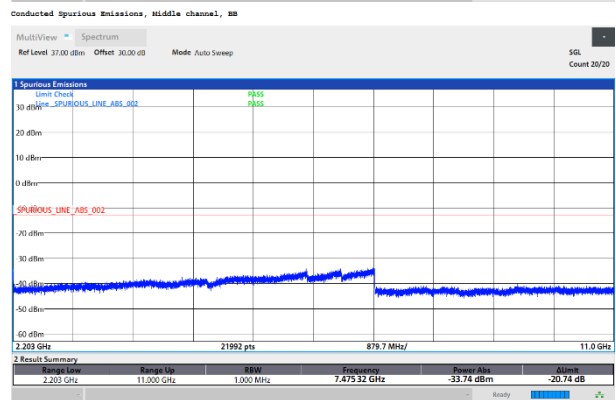
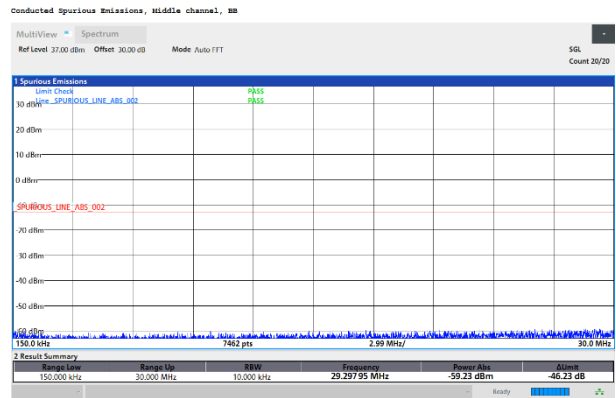
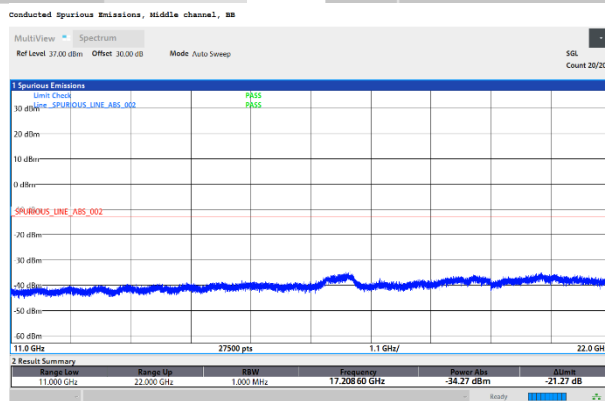
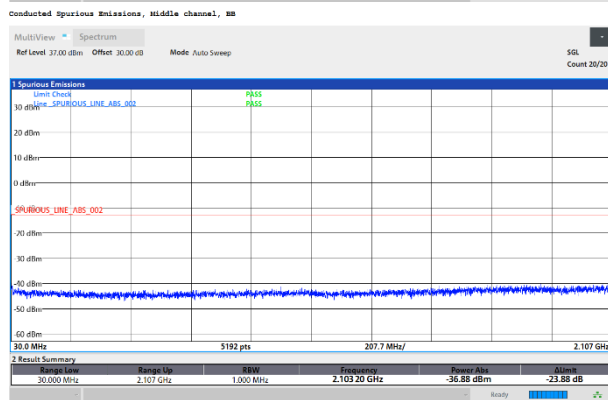
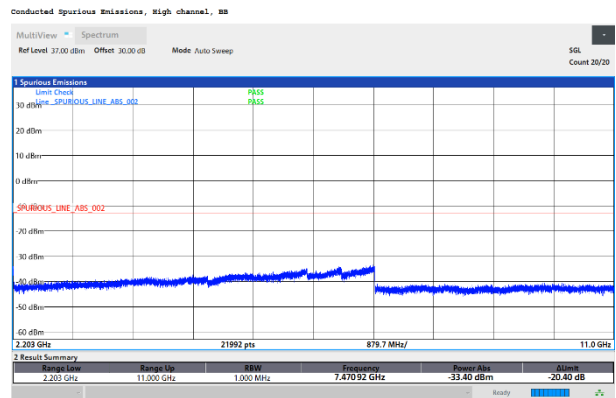
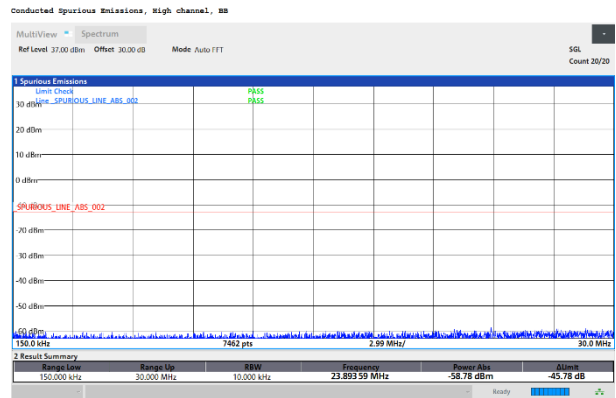
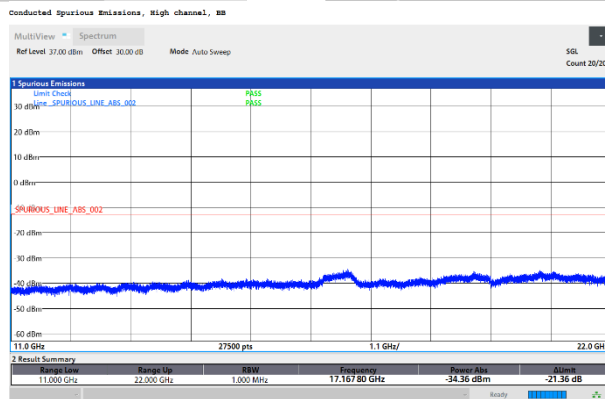
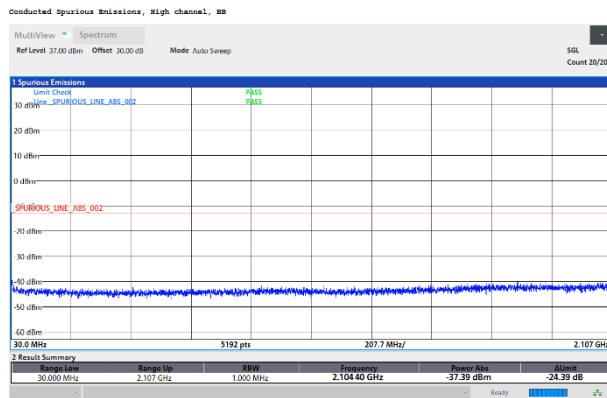
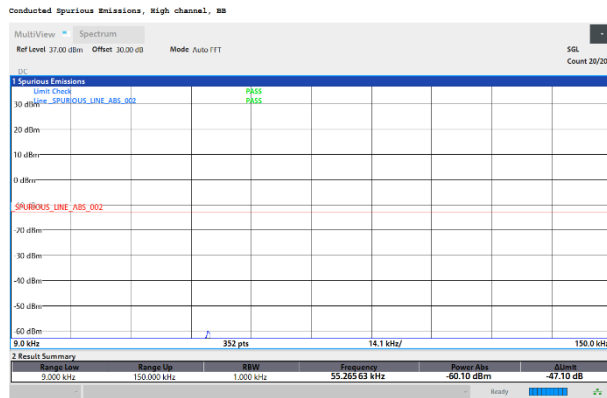


Input signal = middle channel within the frequency block; broadband:



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



8.6 Radiated spurious emissions

8.6.1 References and limits

- FCC Part 24.238 & RSS-133 (band 25 operation)
- FCC Part 27.53(a) & RSS-195 (band 30 operation)
- FCC Part 27.53(h) & RSS-139 (band 66) and RSS-199 (band 41) (band 66, and 41 operation)
- ANSI C63.26 Clause 7.2.2.5
- KDB 935210 D05v01r05 Clause 3.8

8.6.2 Test summary

Verdict	Pass		
Test date	December 1, 2023 December 5, 2023	Temperature	21 °C
Test engineer	Lan Sayasane, EMC Test Engineer	Air pressure	1010 mbar
Test location	☒ 10m semi anechoic chamber ☒ 3m semi anechoic chamber ☐ Other:	Relative humidity	52 %

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. Only the worst-case data (broadband signal) are presented here.

In the range 30 – 1000 MHz, radiated emissions were essentially identical for all operational modes. Thus, data in this range is only presented for one representative operational mode (band 30 operation chosen since the emissions limit is the most stringent).

8.6.4 Setup details

EUT power input during test	120 VAC / 60 Hz		
EUT setup configuration	☒ Table-top ☐ Floor standing ☐ Other:		
Measurement details	Receiver/spectrum analyzer settings for frequencies below 1 GHz:		
	Resolution bandwidth	100 kHz	
	Detector mode	– Peak (Preview measurement)	
	Trace mode	Max Hold	
	Measurement time	– 100 ms (Peak preview measurement)	
		– 5000 ms (Peak final measurement)	
	Receiver/spectrum analyzer settings for frequencies above 1 GHz:		
	Resolution bandwidth	1 MHz	
	Detector mode	Peak (Preview measurement)	
		Peak (Final measurement)	
	Trace mode	Max Hold	
	Measurement time	– 100 ms (Peak preview measurement)	
– 5000 ms (Peak final measurement)			

8.6.5 Test data

8.6.5.1 Operating frequency band: Band 70: 1995 – 2020 MHz

Full Spectrum

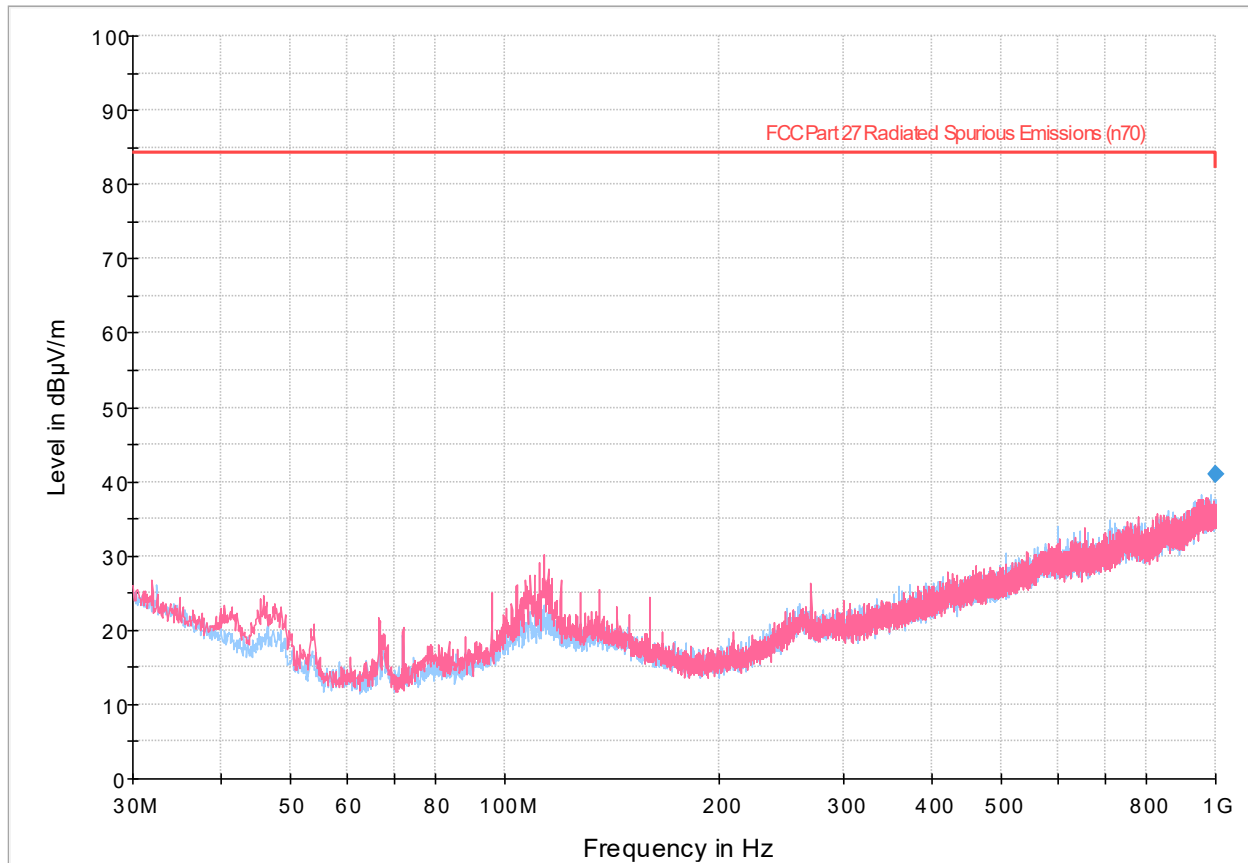


Figure 8.6-1: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 70 (1995 MHz)

Table 8.6-1: 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)
999.340000	41.04	84.38	43.34	5000.0	100.000	267.0	V	160.0	35.9

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

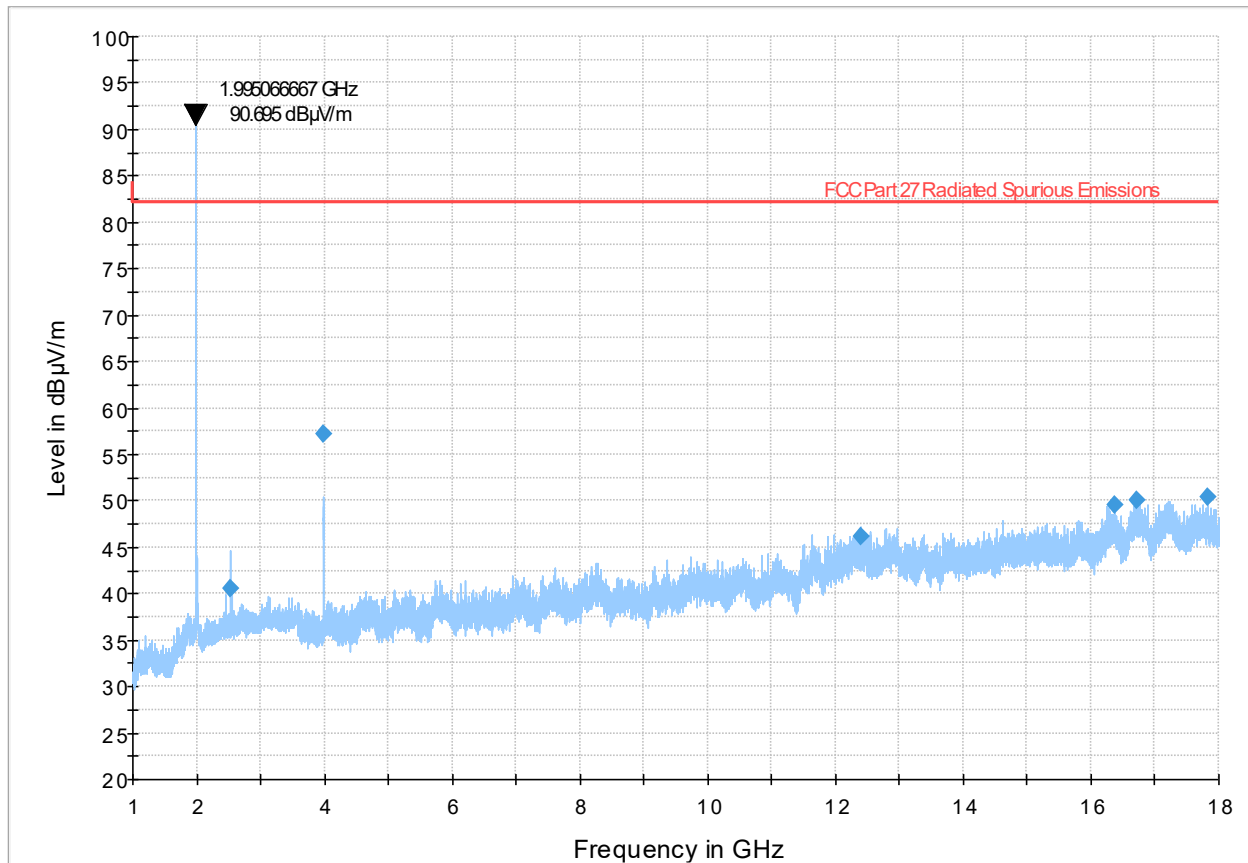


Figure 8.6-2: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 70 (1995 MHz)

Table 8.6-2: 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)
2527.366667	40.50	82.23	41.73	5000.0	1000.000	339.0	V	59.0	-9.5
3990.133333	57.28	82.23	24.95	5000.0	1000.000	209.0	V	46.0	-4.0
12407.333333	46.16	82.23	36.07	5000.0	1000.000	153.0	H	84.0	7.3
16362.900000	49.62	82.23	32.61	5000.0	1000.000	249.0	V	201.0	13.0
16715.200000	50.08	82.23	32.15	5000.0	1000.000	176.0	V	151.0	14.7
17816.233333	50.40	82.23	31.83	5000.0	1000.000	397.0	H	0.0	15.1

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.

Marked emission at 1.99 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

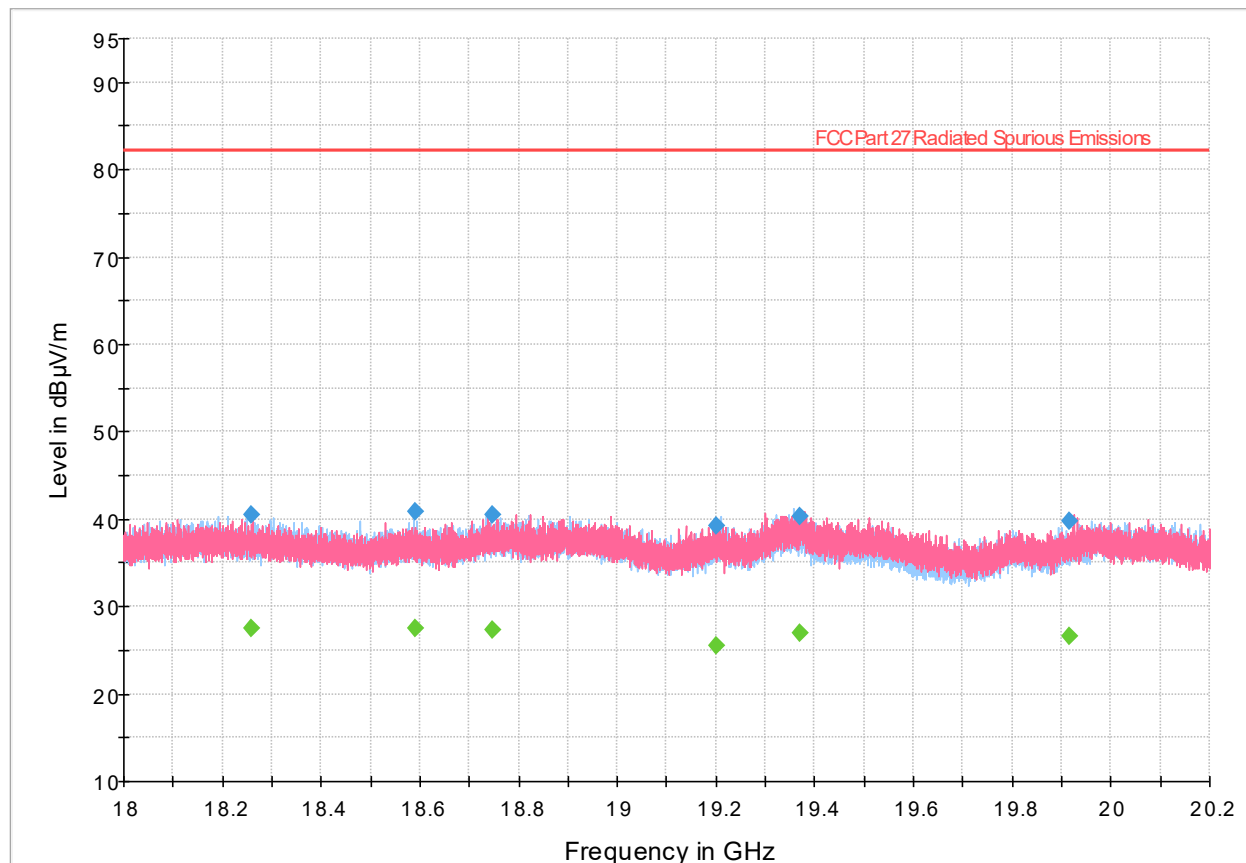


Figure 8.6-3: Radiated emissions spectral plot (18 GHz - 20.2 GHz) – Band 70 (1995 MHz)

Table 8.6-3: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18257.725000	---	27.50	---	---	5000.0	1000.000	181.0	V	219.0	15.5
18257.725000	40.53	---	82.23	41.70	5000.0	1000.000	181.0	V	219.0	15.5
18591.237500	---	27.47	---	---	5000.0	1000.000	400.0	H	159.0	16.1
18591.237500	40.86	---	82.23	41.37	5000.0	1000.000	400.0	H	159.0	16.1
18745.787500	40.51	---	82.23	41.72	5000.0	1000.000	400.0	H	32.0	15.9
18745.787500	---	27.25	---	---	5000.0	1000.000	400.0	H	32.0	15.9
19201.100000	---	25.61	---	---	5000.0	1000.000	213.0	H	91.0	16.3
19201.100000	39.31	---	82.23	42.92	5000.0	1000.000	213.0	H	91.0	16.3
19369.287500	---	27.02	---	---	5000.0	1000.000	366.0	H	113.0	16.7
19369.287500	40.31	---	82.23	41.92	5000.0	1000.000	366.0	H	113.0	16.7
19916.512500	39.86	---	82.23	42.37	5000.0	1000.000	267.0	V	112.0	16.1
19916.512500	---	26.60	---	---	5000.0	1000.000	267.0	V	112.0	16.1

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

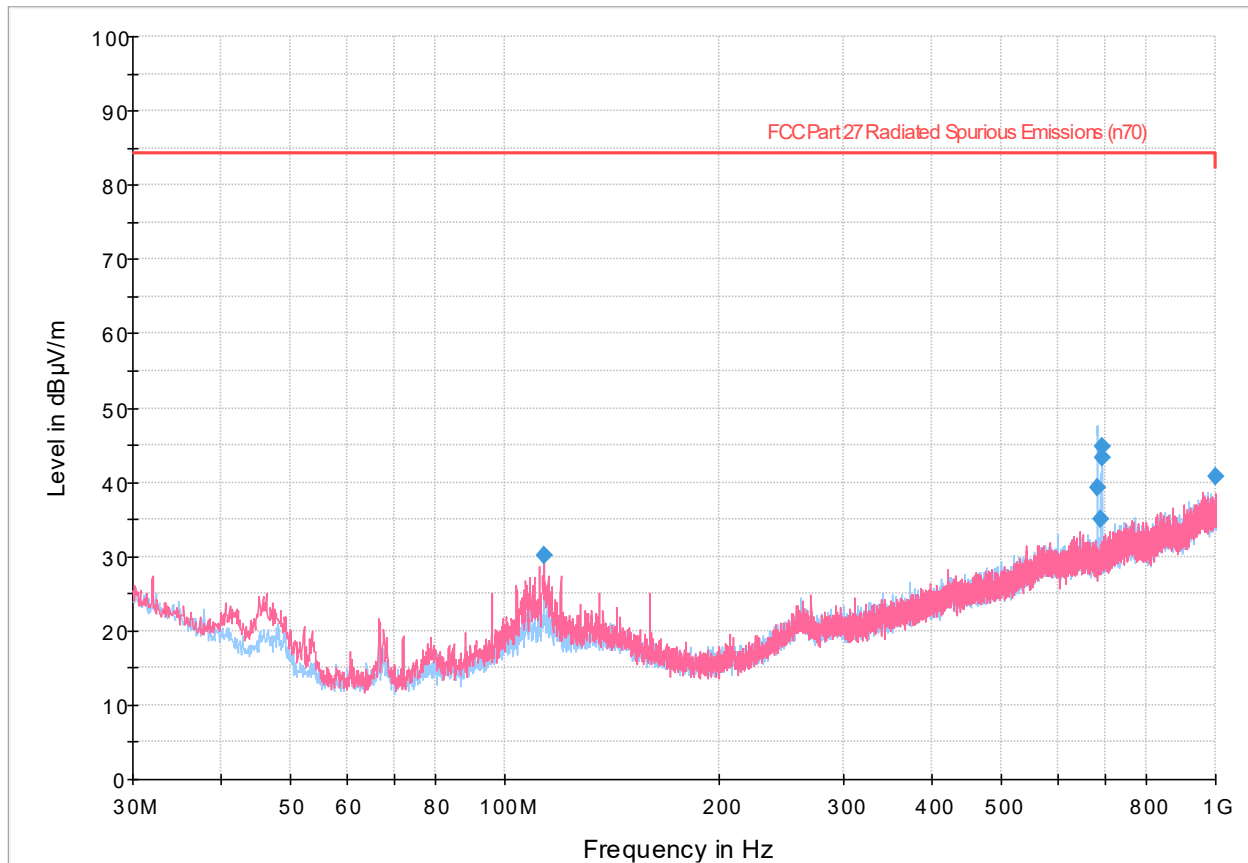


Figure 8.6-4: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 70 (2007.5 MHz)

Table 8.6-4: 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)
113.641667	30.19	84.38	54.19	5000.0	100.000	390.0	V	336.0	18.4
683.189167	39.25	84.38	45.13	5000.0	100.000	331.0	H	159.0	30.1
689.067500	34.97	84.38	49.41	5000.0	100.000	295.0	H	108.0	30.3
691.878333	43.21	84.38	41.17	5000.0	100.000	284.0	H	148.0	30.3
691.953333	44.79	84.38	39.59	5000.0	100.000	379.0	H	0.0	30.3
999.900000	40.83	84.38	43.55	5000.0	100.000	152.0	H	21.0	35.9

- 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

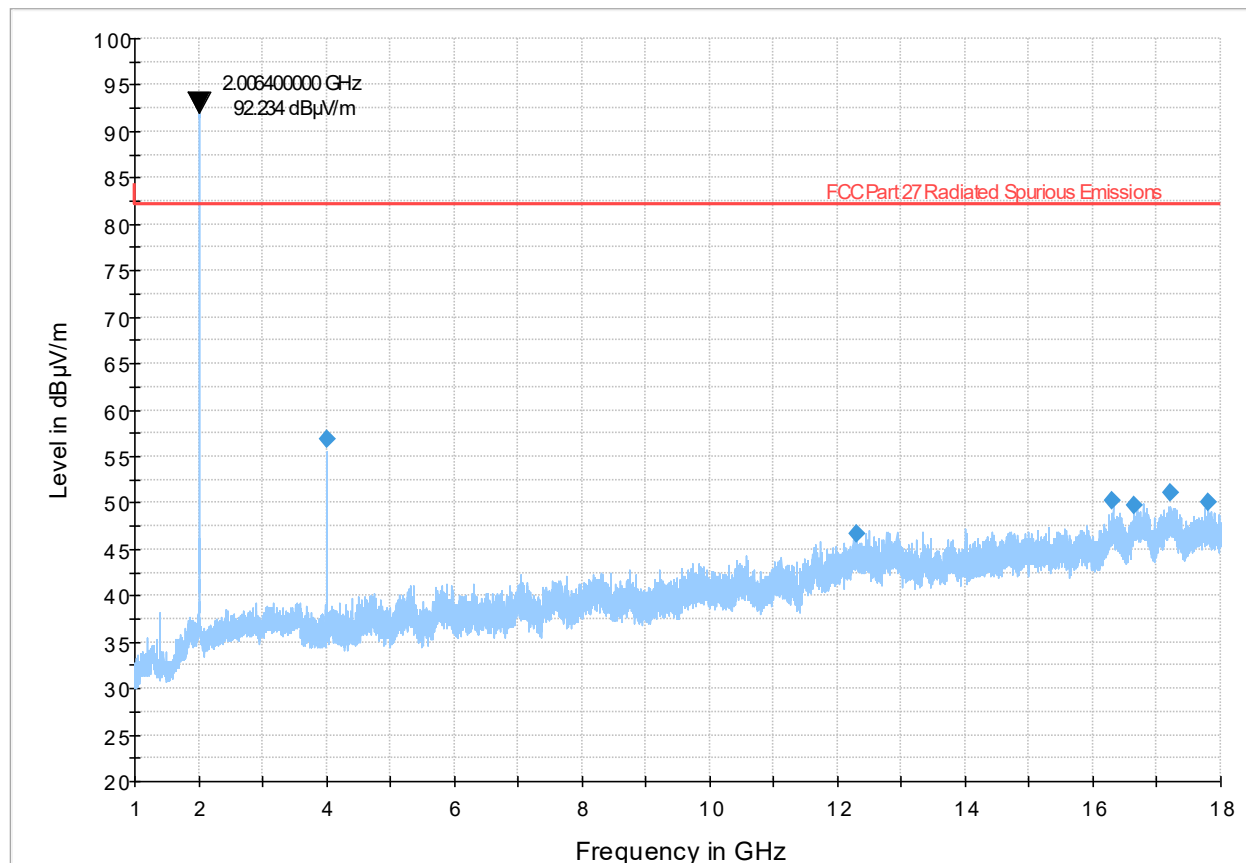


Figure 8.6-5: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 70 (2007.5 MHz)

Table 8.6-5: 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)
4014.933333	56.83	82.23	25.40	5000.0	1000.000	167.0	V	48.0	-3.8
12294.100000	46.75	82.23	35.48	5000.0	1000.000	111.0	V	0.0	7.1
16308.200000	50.29	82.23	31.94	5000.0	1000.000	122.0	H	354.0	13.4
16652.933333	49.73	82.23	32.50	5000.0	1000.000	288.0	V	139.0	14.1
17204.033333	51.17	82.23	31.06	5000.0	1000.000	388.0	H	99.0	15.0
17795.933333	50.06	82.23	32.17	5000.0	1000.000	206.0	H	174.0	15.1

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.

Marked emission at 2.00 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

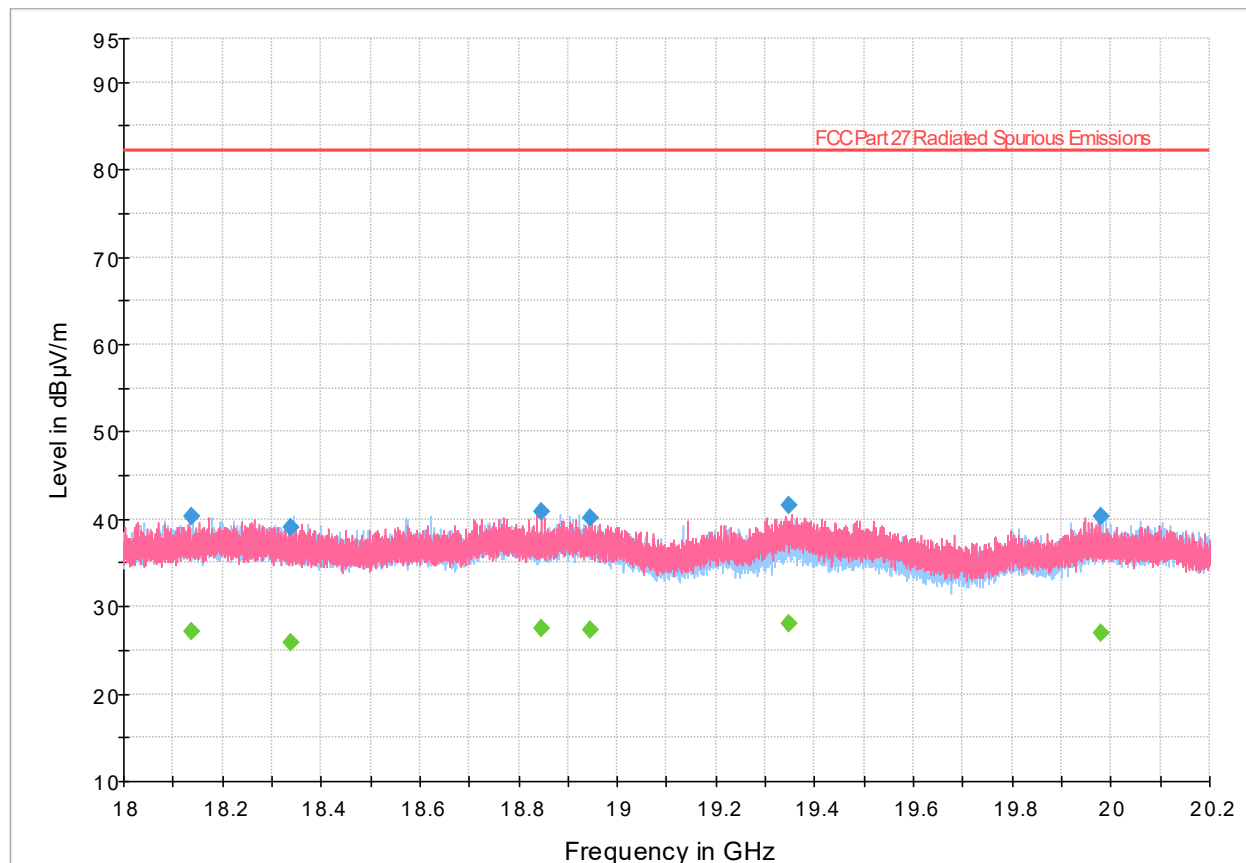


Figure 8.6-6: Radiated emissions spectral plot (18 GHz - 20.2 GHz) – Band 70 (2007.5 MHz)

Table 8.6-6: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18138.500000	40.34	---	82.23	41.89	5000.0	1000.000	205.0	H	115.0	15.6
18138.500000	---	27.10	---	---	5000.0	1000.000	205.0	H	115.0	15.6
18339.675000	---	25.95	---	---	5000.0	1000.000	190.0	H	0.0	15.3
18339.675000	38.97	---	82.23	43.26	5000.0	1000.000	190.0	H	0.0	15.3
18845.425000	---	27.52	---	---	5000.0	1000.000	164.0	V	0.0	15.9
18845.425000	40.79	---	82.23	41.44	5000.0	1000.000	164.0	V	0.0	15.9
18943.900000	---	27.36	---	---	5000.0	1000.000	391.0	V	0.0	15.9
18943.900000	40.13	---	82.23	42.10	5000.0	1000.000	391.0	V	0.0	15.9
19348.812500	---	27.98	---	---	5000.0	1000.000	366.0	V	256.0	16.7
19348.812500	41.66	---	82.23	40.57	5000.0	1000.000	366.0	V	256.0	16.7
19979.837500	40.33	---	82.23	41.90	5000.0	1000.000	351.0	H	186.0	16.4
19979.837500	---	27.03	---	---	5000.0	1000.000	351.0	H	186.0	16.4

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

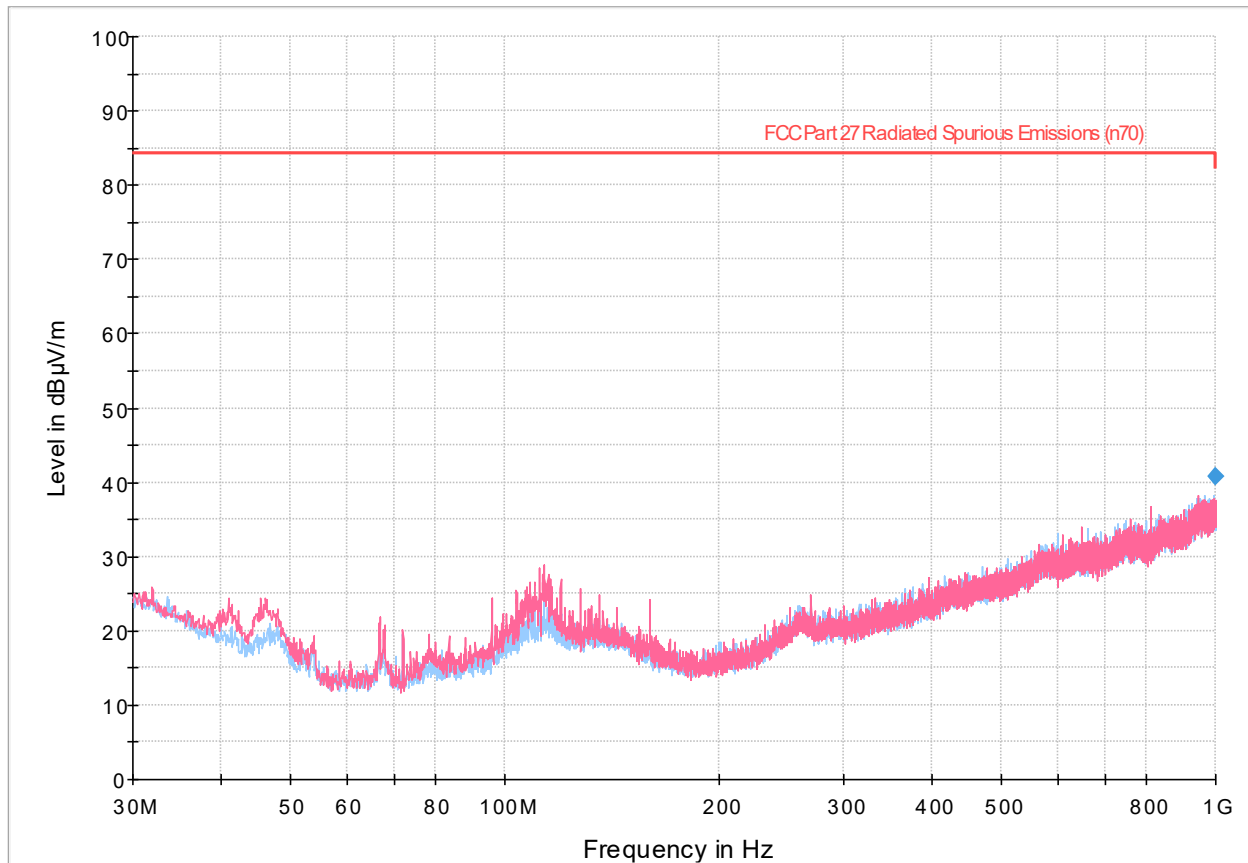


Figure 8.6-7: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 70 (2020 MHz)

Table 8.6-7: 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)
998.980000	40.77	84.38	43.61	5000.0	100.000	229.0	H	310.0	35.9

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

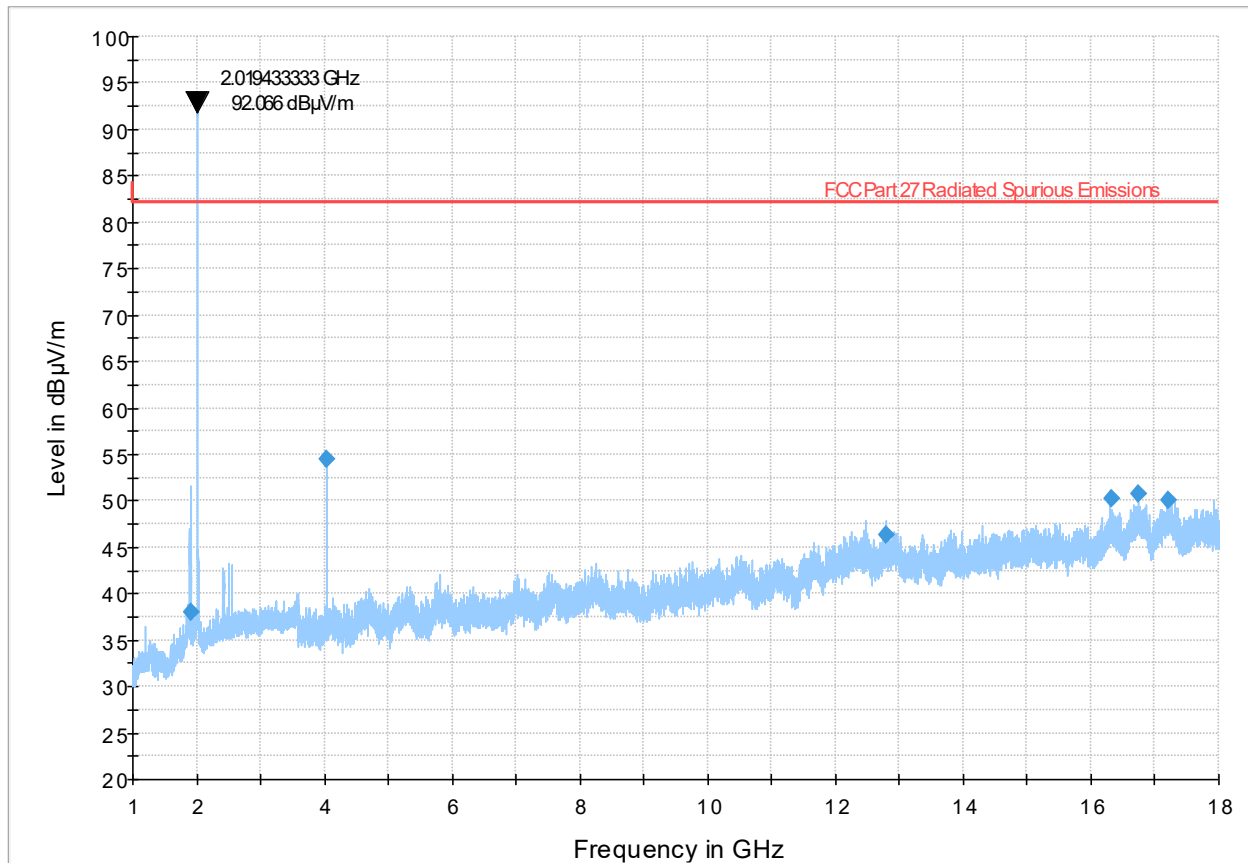


Figure 8.6-8: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 70 (2020 MHz)

Table 8.6-8: 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)
1909.633333	38.06	82.23	44.17	5000.0	1000.000	336.0	H	335.0	-10.8
4040.000000	54.40	82.23	27.83	5000.0	1000.000	222.0	V	21.0	-3.6
12798.833333	46.25	82.23	35.98	5000.0	1000.000	332.0	V	235.0	8.6
16311.366667	50.27	82.23	31.96	5000.0	1000.000	370.0	V	278.0	13.4
16736.433333	50.73	82.23	31.50	5000.0	1000.000	167.0	V	174.0	14.8
17205.833333	50.11	82.23	32.12	5000.0	1000.000	205.0	H	339.0	15.0

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.
Marked emission at 2.01 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

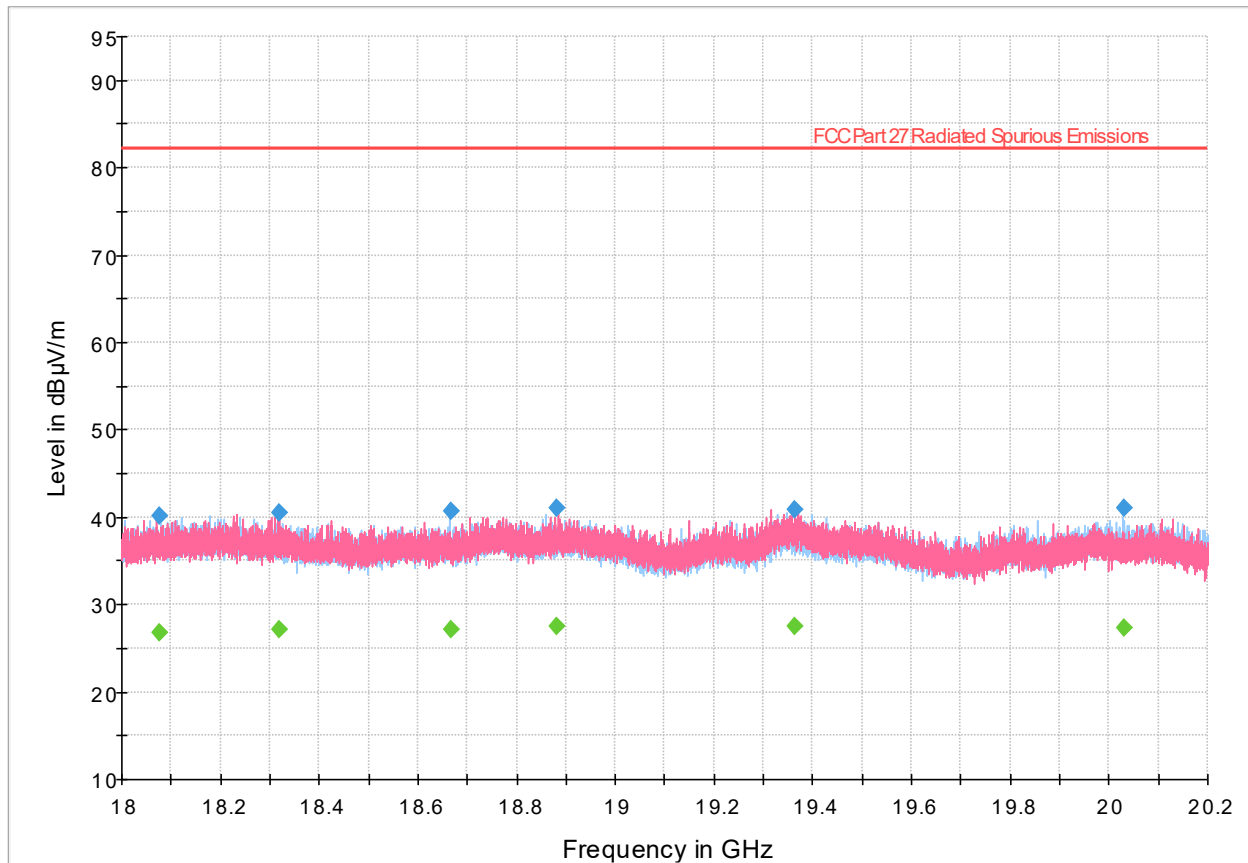


Figure 8.6-9: Radiated emissions spectral plot (18 GHz - 20.2 GHz) – Band 70 (2020 MHz)

Table 8.6-9: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18075.387500	40.07	---	82.23	42.16	5000.0	1000.000	157.0	V	0.0	15.7
18075.387500	---	26.76	---	---	5000.0	1000.000	157.0	V	0.0	15.7
18320.575000	40.57	---	82.23	41.66	5000.0	1000.000	285.0	V	216.0	15.4
18320.575000	---	27.14	---	---	5000.0	1000.000	285.0	V	216.0	15.4
18666.250000	---	27.09	---	---	5000.0	1000.000	157.0	H	162.0	16.0
18666.250000	40.71	---	82.23	41.52	5000.0	1000.000	157.0	H	162.0	16.0
18881.187500	41.01	---	82.23	41.22	5000.0	1000.000	132.0	V	91.0	15.9
18881.187500	---	27.55	---	---	5000.0	1000.000	132.0	V	91.0	15.9
19364.987500	40.88	---	82.23	41.35	5000.0	1000.000	257.0	V	245.0	16.7
19364.987500	---	27.53	---	---	5000.0	1000.000	257.0	V	245.0	16.7
20031.850000	---	27.36	---	---	5000.0	1000.000	318.0	H	225.0	16.6
20031.850000	41.11	---	82.23	41.12	5000.0	1000.000	318.0	H	225.0	16.6

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.

8.6.5.2 Operating frequency band: Band 66: 2110 – 2200 MHz

Full Spectrum

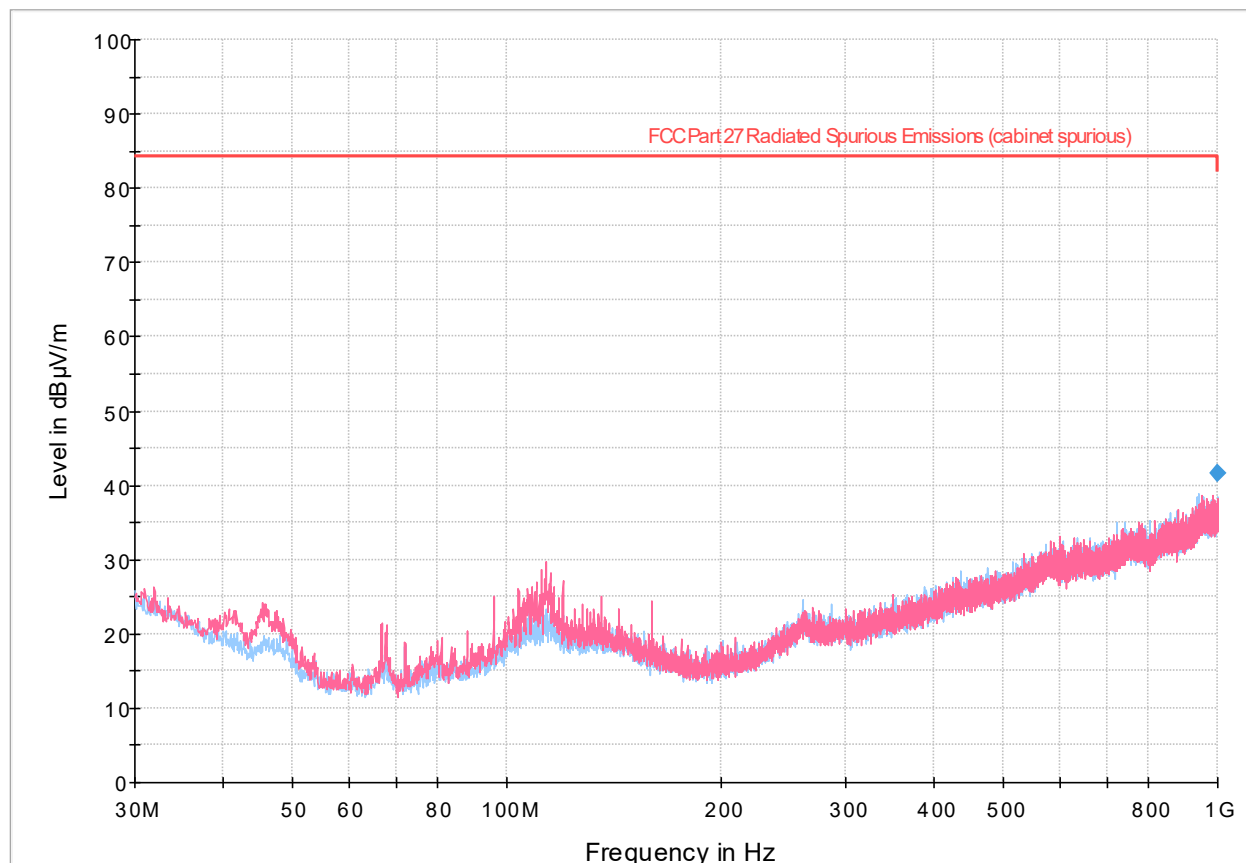


Figure 8.6-10: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 66 (2110 MHz)

Table 8.6-10: 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)
998.580000	41.67	84.38	42.71	5000.0	100.000	175.0	H	34.0	35.9

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

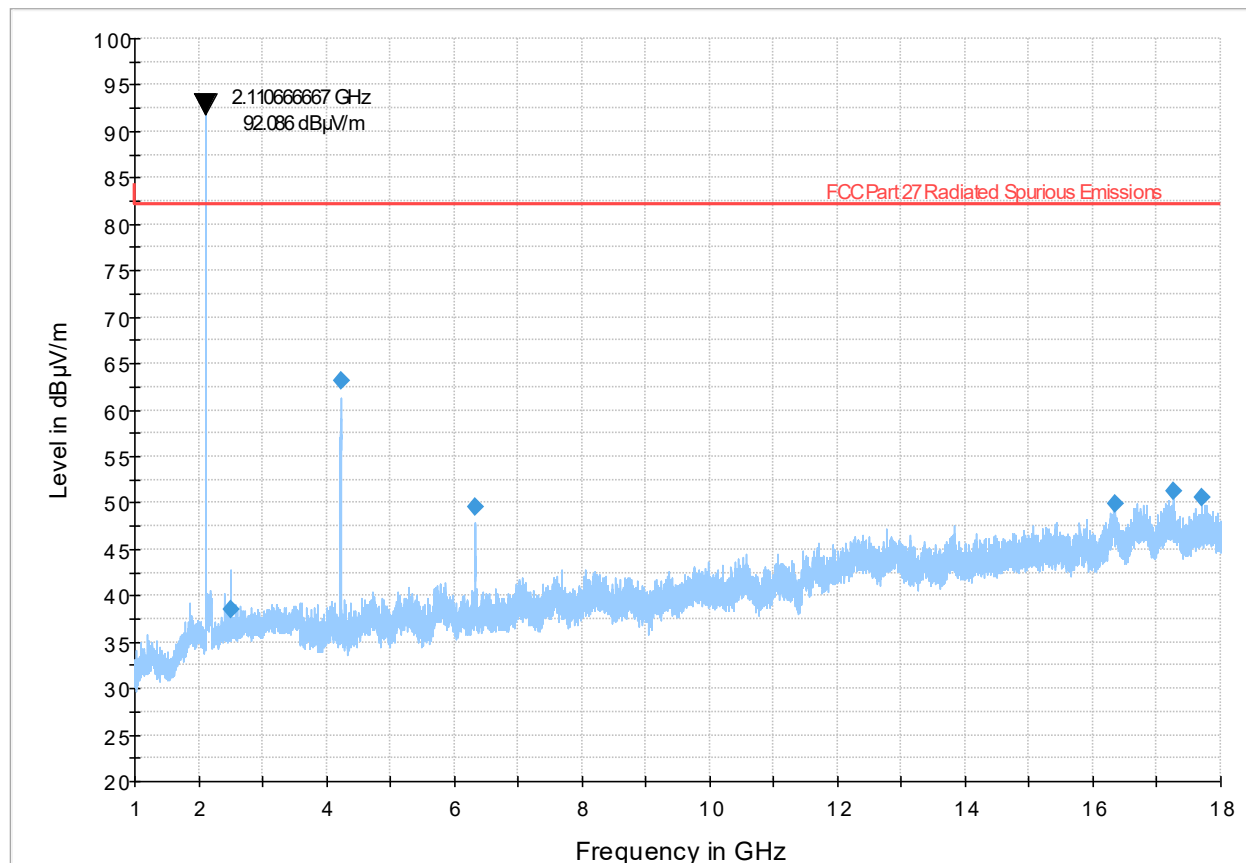


Figure 8.6-11: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2110 MHz)

Table 8.6-11: 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)
2505.133333	38.45	82.23	43.78	5000.0	1000.000	115.0	H	325.0	-9.5
4221.900000	63.19	82.23	19.04	5000.0	1000.000	204.0	V	35.0	-3.7
6330.900000	49.52	82.23	32.71	5000.0	1000.000	206.0	V	35.0	0.3
16337.733333	49.92	82.23	32.31	5000.0	1000.000	328.0	V	339.0	13.2
17255.066667	51.27	82.23	30.96	5000.0	1000.000	398.0	H	152.0	15.1
17709.200000	50.57	82.23	31.66	5000.0	1000.000	305.0	H	0.0	14.5

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.

Marked emission at 2.11 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

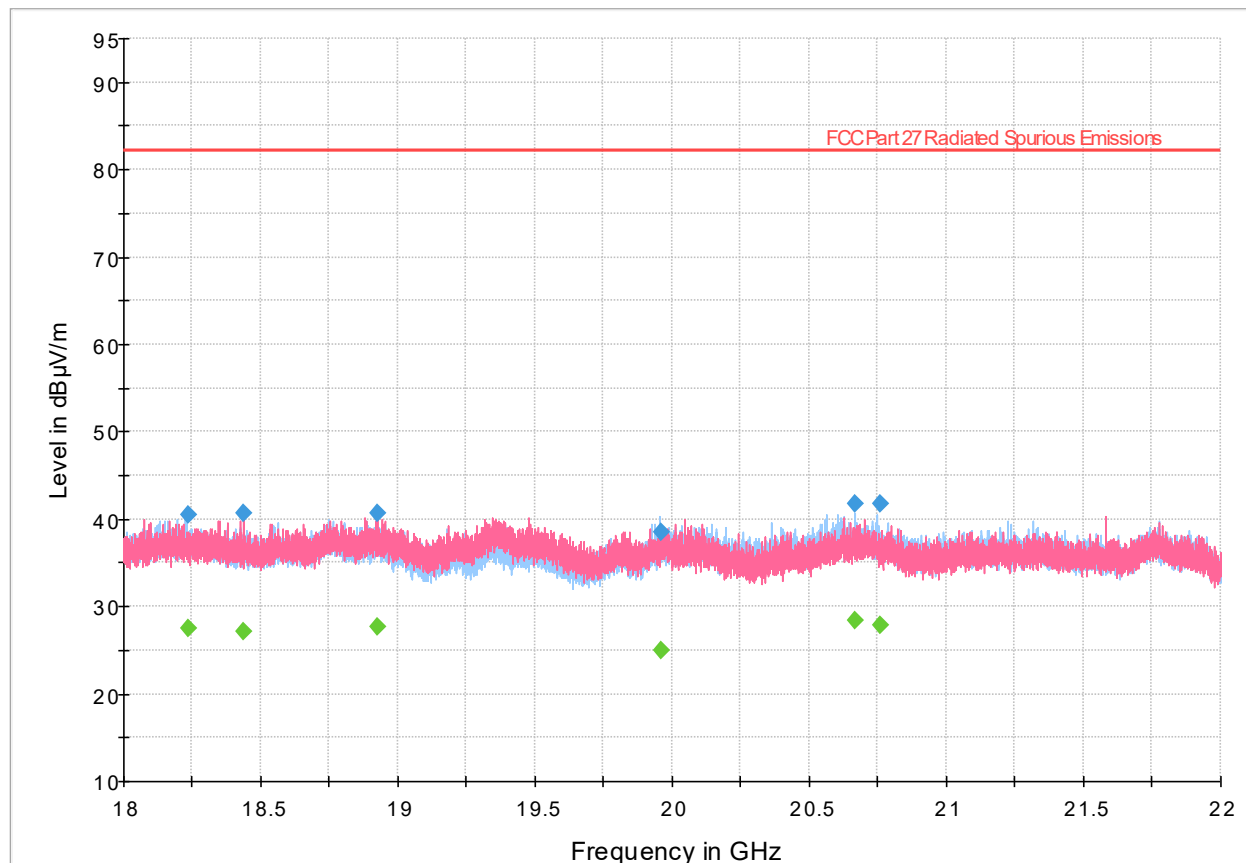


Figure 8.6-12: Radiated emissions spectral plot (18 GHz - 22 GHz) – Band 66 (2110 MHz)

Table 8.6-12: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18234.250000	40.51	---	82.23	41.72	5000.0	1000.000	386.0	H	32.0	15.6
18234.250000	---	27.57	---	---	5000.0	1000.000	386.0	H	32.0	15.6
18437.350000	40.65	---	82.23	41.58	5000.0	1000.000	260.0	V	333.0	15.5
18437.350000	---	27.13	---	---	5000.0	1000.000	260.0	V	333.0	15.5
18926.300000	---	27.66	---	---	5000.0	1000.000	176.0	V	150.0	15.9
18926.300000	40.72	---	82.23	41.51	5000.0	1000.000	176.0	V	150.0	15.9
19960.350000	---	24.98	---	---	5000.0	1000.000	281.0	H	199.0	16.3
19960.350000	38.43	---	82.23	43.80	5000.0	1000.000	281.0	H	199.0	16.3
20666.750000	41.68	---	82.23	40.55	5000.0	1000.000	381.0	H	160.0	18.0
20666.750000	---	28.32	---	---	5000.0	1000.000	381.0	H	160.0	18.0
20756.400000	41.75	---	82.23	40.48	5000.0	1000.000	284.0	H	90.0	18.0
20756.400000	---	27.83	---	---	5000.0	1000.000	284.0	H	90.0	18.0

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.

Full Spectrum

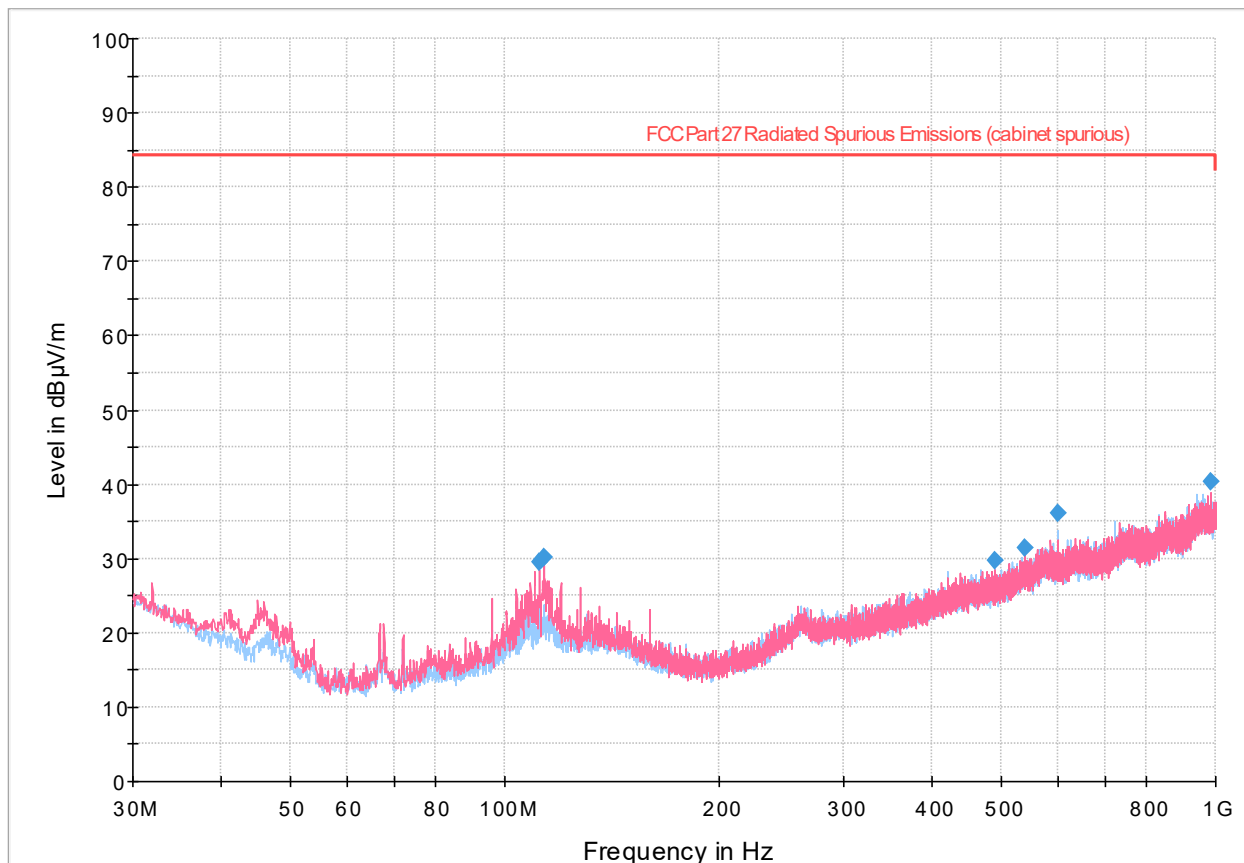


Figure 8.6-13: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 66 (2155 MHz)

Table 8.6-13: 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)
112.025000	29.55	84.38	54.83	5000.0	100.000	370.0	V	21.0	18.2
113.642500	30.07	84.38	54.31	5000.0	100.000	398.0	V	353.0	18.4
489.965833	29.76	84.38	54.62	5000.0	100.000	314.0	H	246.0	26.4
538.674167	31.42	84.38	52.96	5000.0	100.000	100.0	V	0.0	28.2
600.016667	35.99	84.38	48.39	5000.0	100.000	217.0	H	136.0	29.3
983.943333	40.38	84.38	44.00	5000.0	100.000	400.0	V	0.0	35.5

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

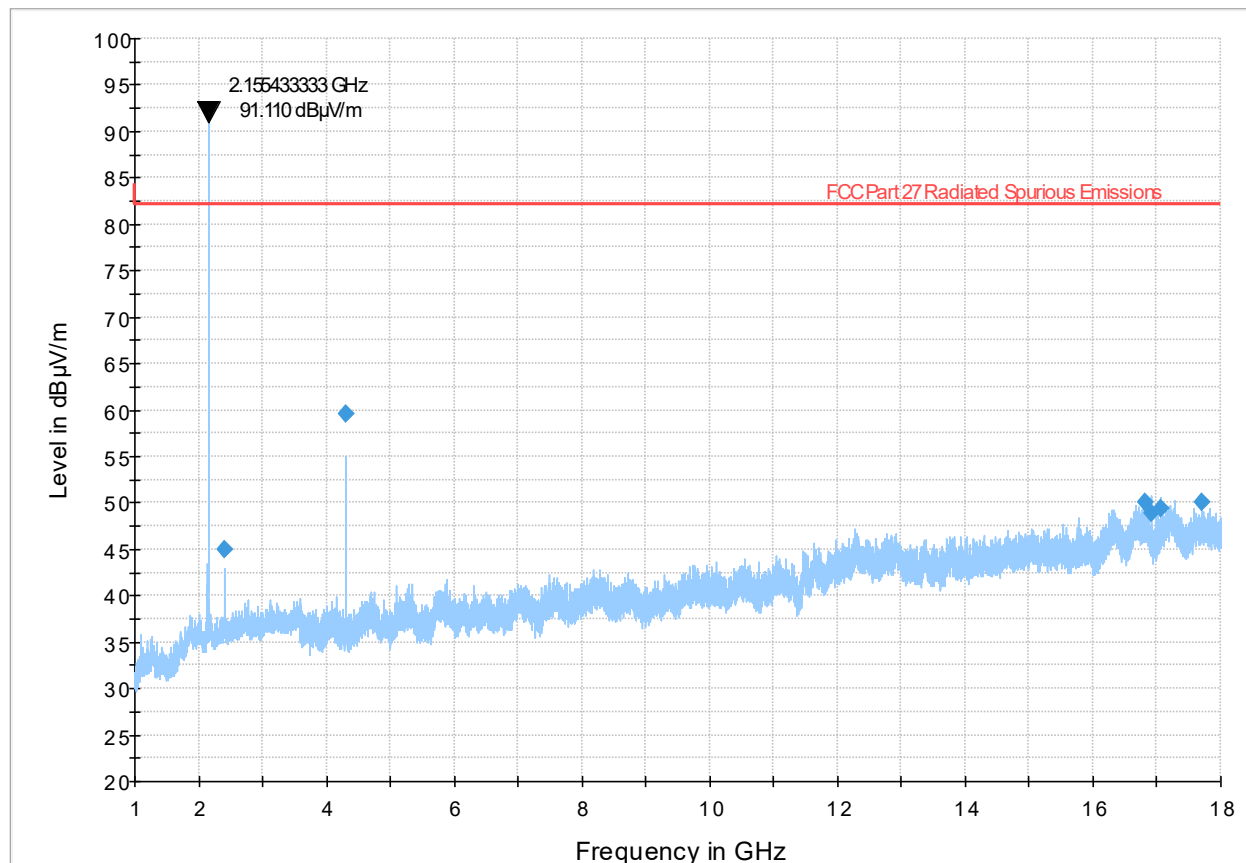


Figure 8.6-14: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2155 MHz)

Table 8.6-14: 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)
2401.766667	45.00	82.23	37.23	5000.0	1000.000	270.0	V	185.0	-10.0
4309.900000	59.59	82.23	22.64	5000.0	1000.000	210.0	V	21.0	-3.5
16816.166667	50.08	82.23	32.15	5000.0	1000.000	126.0	H	110.0	14.2
16905.033333	48.95	82.23	33.28	5000.0	1000.000	341.0	V	224.0	12.6
17054.400000	49.36	82.23	32.87	5000.0	1000.000	134.0	V	268.0	12.6
17715.766667	50.12	82.23	32.11	5000.0	1000.000	100.0	H	0.0	14.5

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.

Marked emission at 2.15 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

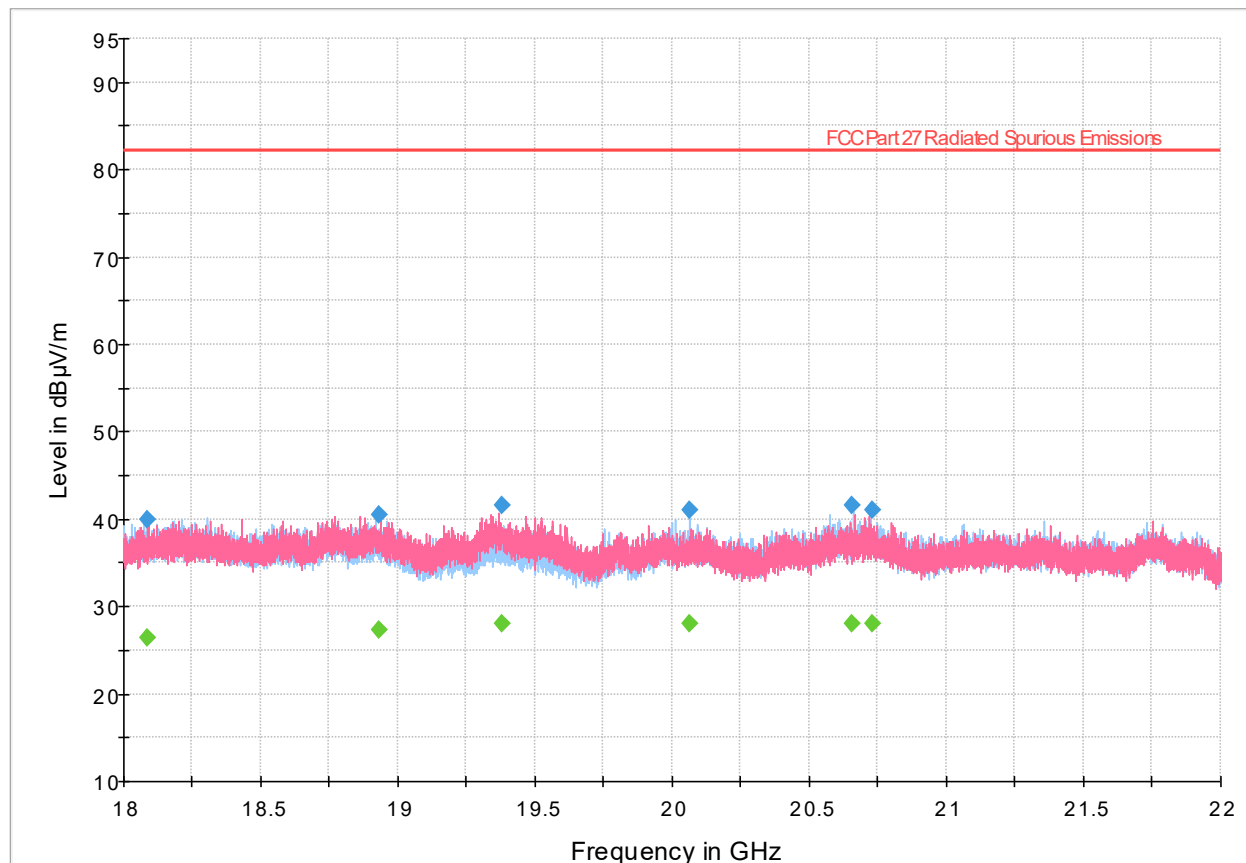


Figure 8.6-15: Radiated emissions spectral plot (18 GHz - 22 GHz) – Band 66 (2155 MHz)

Table 8.6-15: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18085.200000	---	26.44	---	---	5000.0	1000.000	287.0	H	113.0	15.7
18085.200000	40.04	---	82.23	42.19	5000.0	1000.000	287.0	H	113.0	15.7
18930.950000	---	27.33	---	---	5000.0	1000.000	112.0	V	306.0	15.9
18930.950000	40.50	---	82.23	41.73	5000.0	1000.000	112.0	V	306.0	15.9
19380.200000	---	28.05	---	---	5000.0	1000.000	196.0	V	0.0	16.6
19380.200000	41.52	---	82.23	40.71	5000.0	1000.000	196.0	V	0.0	16.6
20061.900000	---	28.02	---	---	5000.0	1000.000	400.0	H	357.0	16.7
20061.900000	41.00	---	82.23	41.23	5000.0	1000.000	400.0	H	357.0	16.7
20654.500000	---	28.05	---	---	5000.0	1000.000	203.0	H	161.0	17.9
20654.500000	41.62	---	82.23	40.61	5000.0	1000.000	203.0	H	161.0	17.9
20728.050000	---	28.02	---	---	5000.0	1000.000	206.0	V	56.0	18.3
20728.050000	41.00	---	82.23	41.23	5000.0	1000.000	206.0	V	56.0	18.3

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

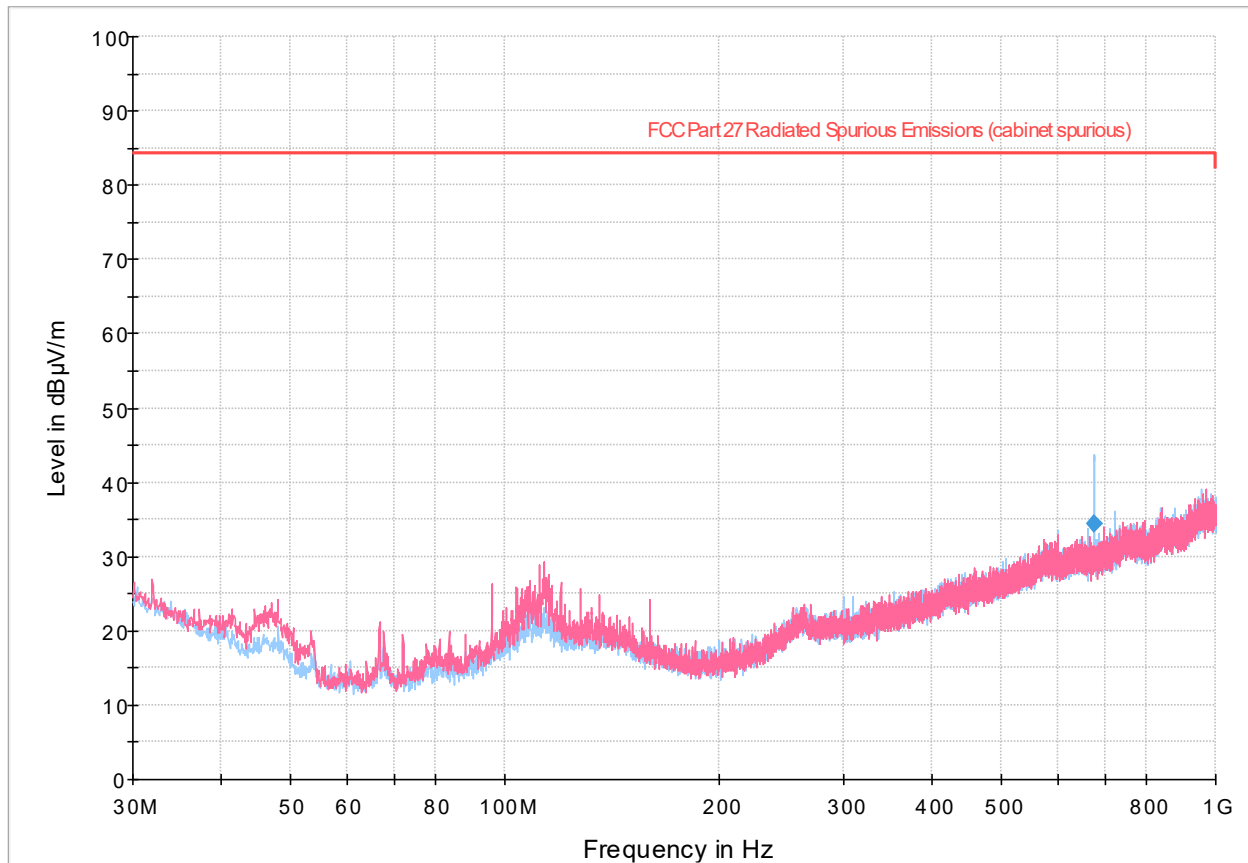


Figure 8.6-16: Radiated emissions spectral plot (30 MHz - 1 GHz) – Band 66 (2200 MHz)

Table 8.6-16: 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)
675.321667	34.38	84.38	50.00	5000.0	100.000	190.0	H	22.0	30.1

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

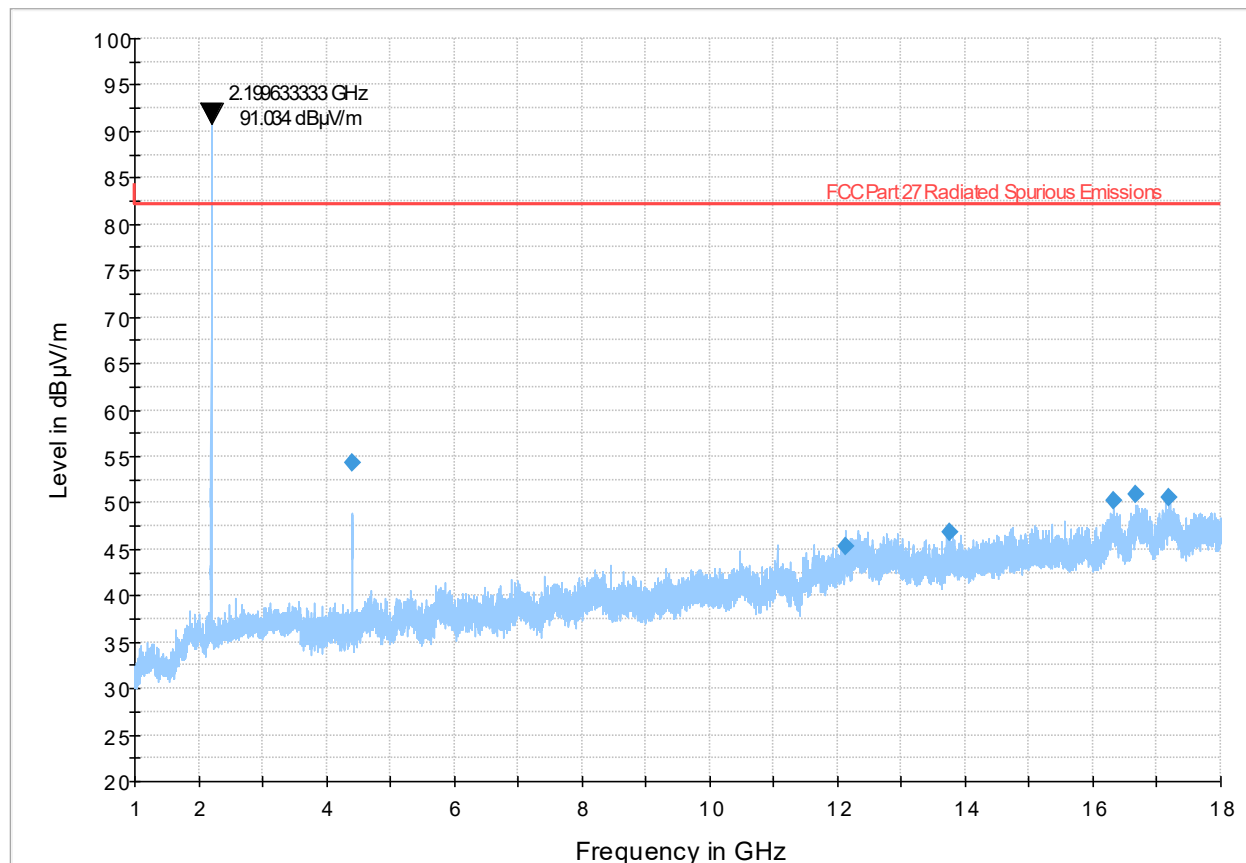


Figure 8.6-17: Radiated emissions spectral plot (1 GHz - 18 GHz) – Band 66 (2200 MHz)

Table 8.6-17: 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)
4398.133333	54.38	82.23	27.85	5000.0	1000.000	195.0	V	11.0	-3.1
12116.900000	45.32	82.23	36.91	5000.0	1000.000	400.0	V	71.0	6.6
13756.666667	46.91	82.23	35.32	5000.0	1000.000	292.0	V	265.0	9.9
16311.733333	50.18	82.23	32.05	5000.0	1000.000	388.0	V	302.0	13.4
16678.366667	50.98	82.23	31.25	5000.0	1000.000	234.0	V	249.0	14.4
17197.400000	50.52	82.23	31.71	5000.0	1000.000	276.0	H	260.0	14.9

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.

Marked emission at 2.20 GHz is the fundamental emission and is not evaluated against the limits.

Full Spectrum

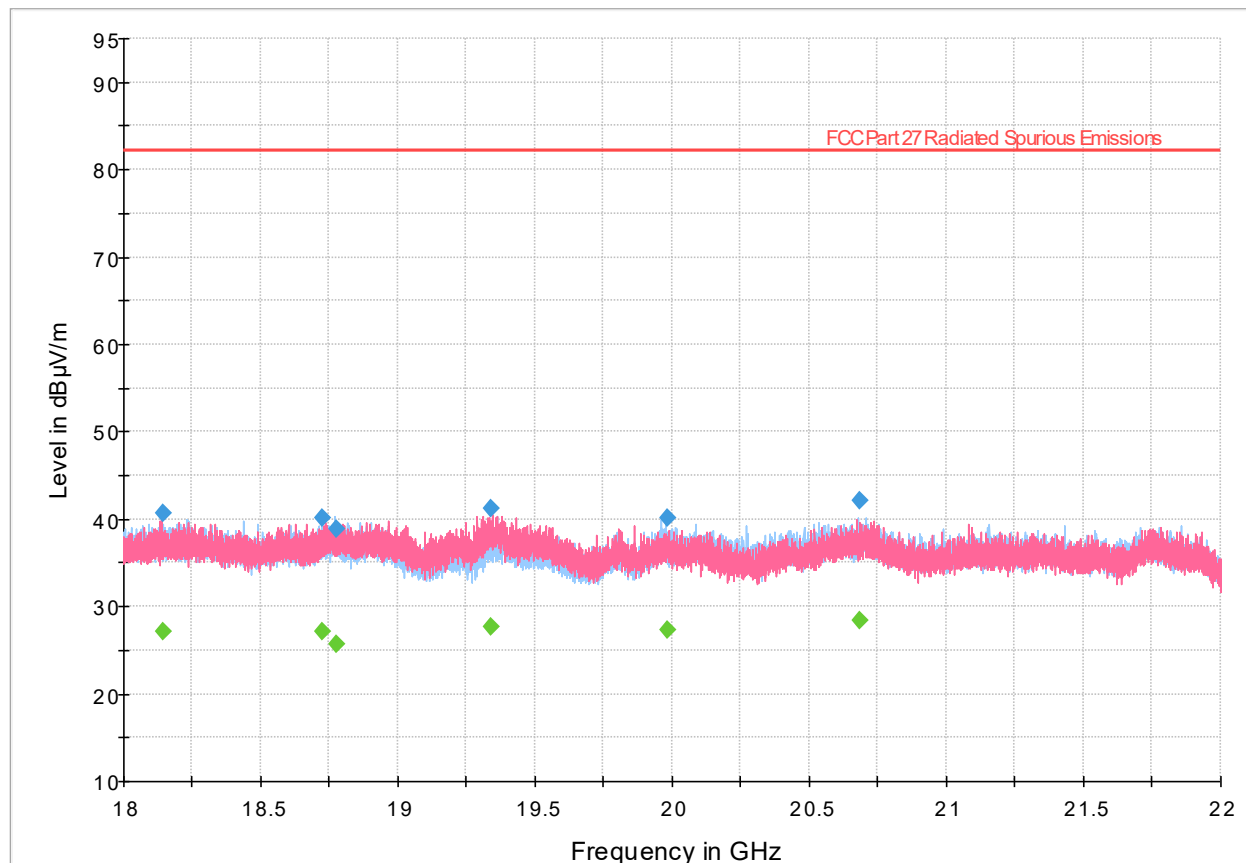


Figure 8.6-18: Radiated emissions spectral plot (18 GHz - 22 GHz) – Band 66 (2200 MHz)

Table 8.6-18: Radiated emissions results

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18144.550000	---	27.10	---	---	5000.0	1000.000	329.0	V	44.0	15.6
18144.550000	40.63	---	82.23	41.60	5000.0	1000.000	329.0	V	44.0	15.6
18726.650000	---	27.22	---	---	5000.0	1000.000	400.0	H	320.0	15.9
18726.650000	40.20	---	82.23	42.03	5000.0	1000.000	400.0	H	320.0	15.9
18775.850000	---	25.71	---	---	5000.0	1000.000	114.0	H	276.0	15.9
18775.850000	38.89	---	82.23	43.34	5000.0	1000.000	114.0	H	276.0	15.9
19340.300000	---	27.61	---	---	5000.0	1000.000	293.0	V	316.0	16.7
19340.300000	41.31	---	82.23	40.92	5000.0	1000.000	293.0	V	316.0	16.7
19981.000000	40.19	---	82.23	42.04	5000.0	1000.000	152.0	H	32.0	16.4
19981.000000	---	27.26	---	---	5000.0	1000.000	152.0	H	32.0	16.4
20685.850000	42.05	---	82.23	40.18	5000.0	1000.000	170.0	H	87.0	18.2
20685.850000	---	28.45	---	---	5000.0	1000.000	170.0	H	87.0	18.2

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.

End of test report