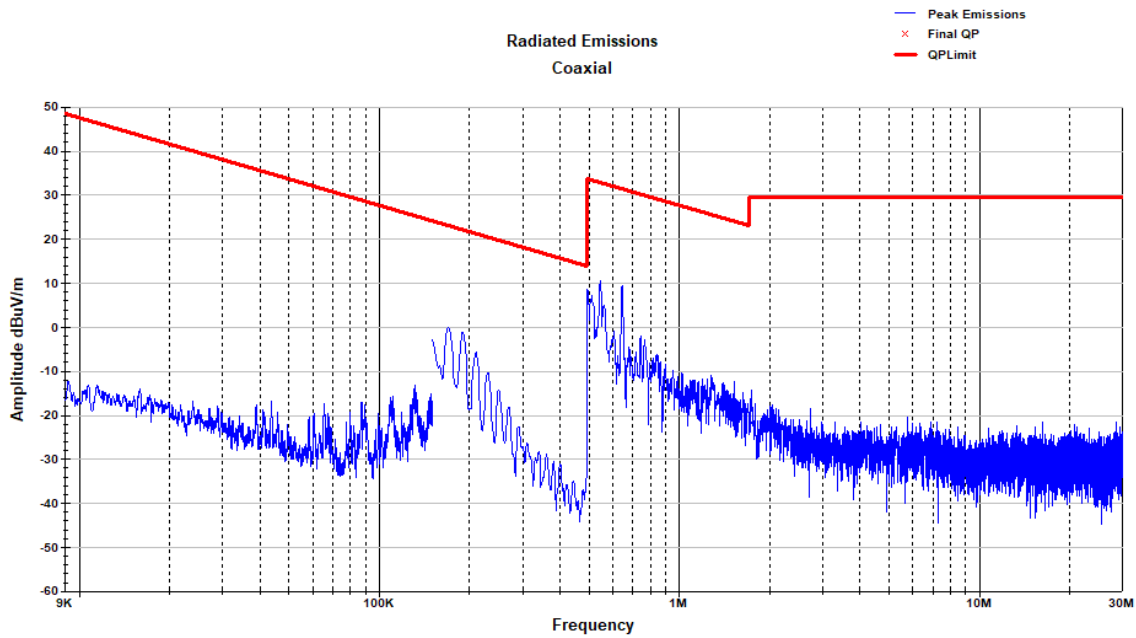


3.13 Test Data – U-NII Band 2C – 802.11ac

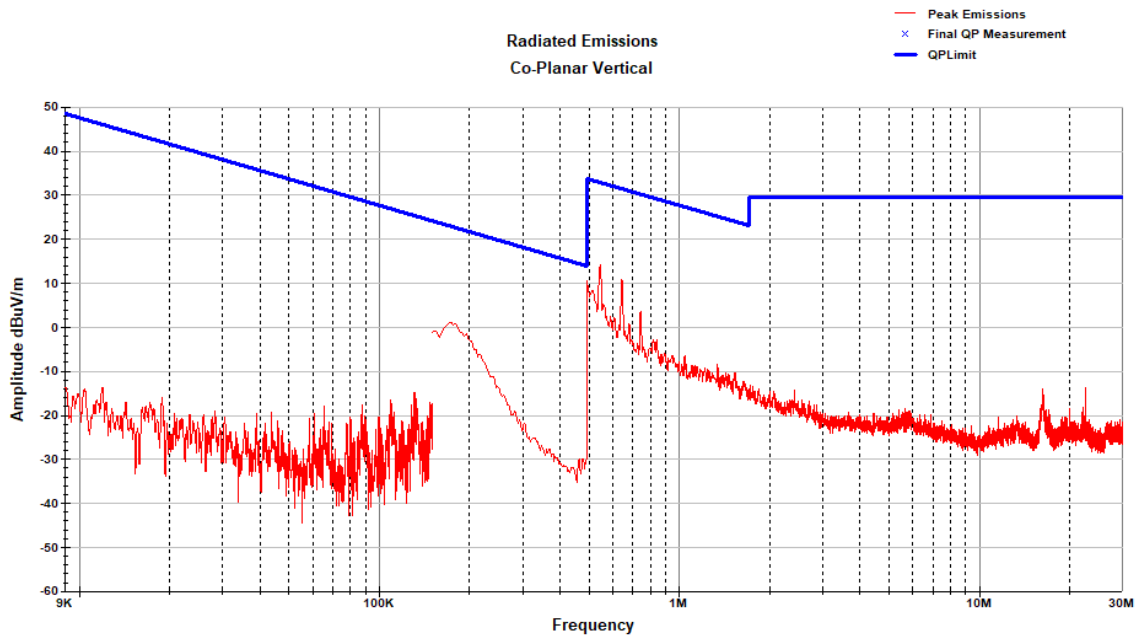
3.13.1 9kHz – 30MHz

All channels had similar plots in the 9kHz to 30MHz frequency range.

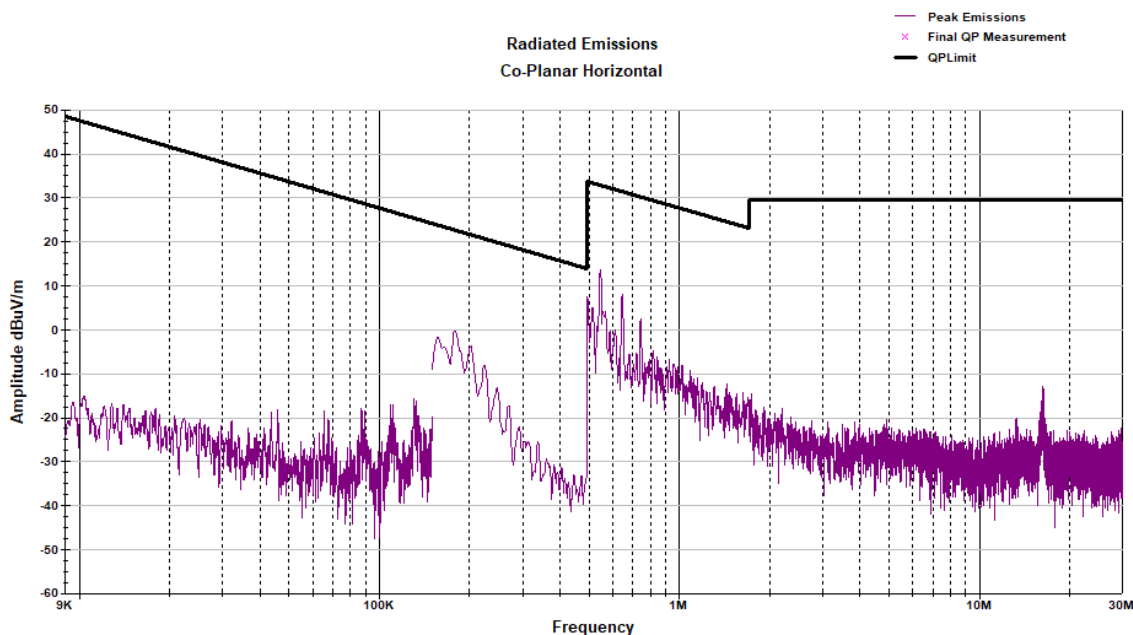
Coaxial Plot – 9 kHz-30MHz – Mid Channel



Co-Planar Vertical Plot – 9 kHz-30MHz – Mid Channel



Co-Planar Horizontal Plot – 9 kHz-30MHz – Mid Channel

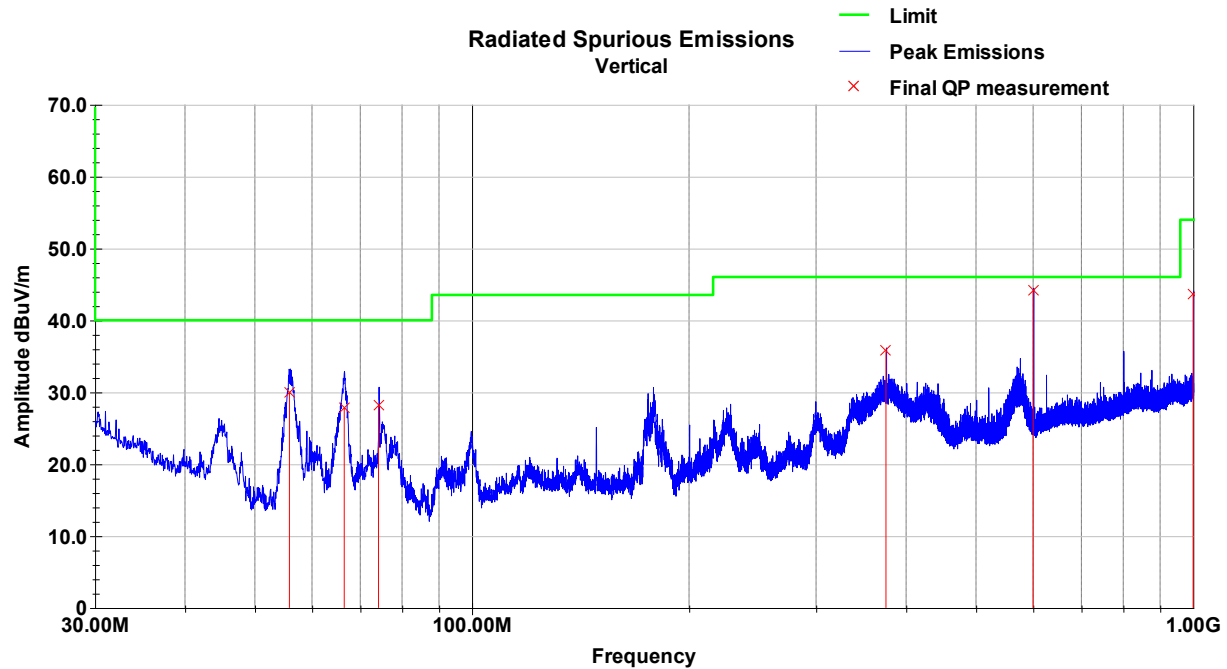


No emissions within 20dB of the limit

3.13.2 30-1000 MHz

All channels were measured and had similar plots – the worst-case plots are shown below.

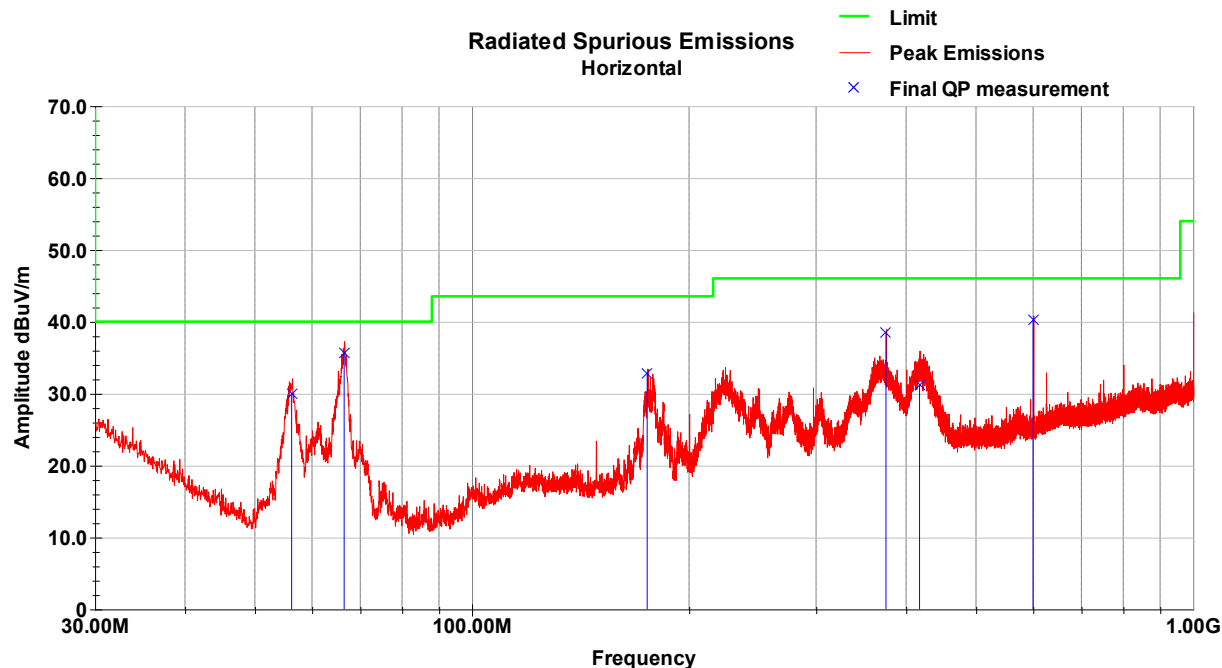
Vertical Plot – 30-1000MHz – Mid Channel



Vertical Data – 30-1000MHz – Mid Channel

Frequency MHz	Raw QP dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	Amp dB	QP Value dBuV/m	Limit dBuV/m	Margin dB
55.83	49.5	V	116.0	100.0	11.5	0.9	32.0	29.9	100.0	-10.1
66.50	46.8	V	105.0	207.0	12.0	1.0	32.0	27.8	100.0	-12.2
74.21	46.8	V	80.0	100.0	12.2	1.0	31.9	28.1	40.0	-11.9
375.01	44.9	V	46.0	204.0	19.6	2.6	31.5	35.8	100.0	-10.2
600.00	48.6	V	333.0	100.0	23.6	3.3	31.4	44.2	100.0	-1.8
1000.00	42.9	V	210.0	100.0	27.9	4.0	31.0	43.7	54.0	-10.3
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

Horizontal Plot – 30-1000MHz – Mid Channel

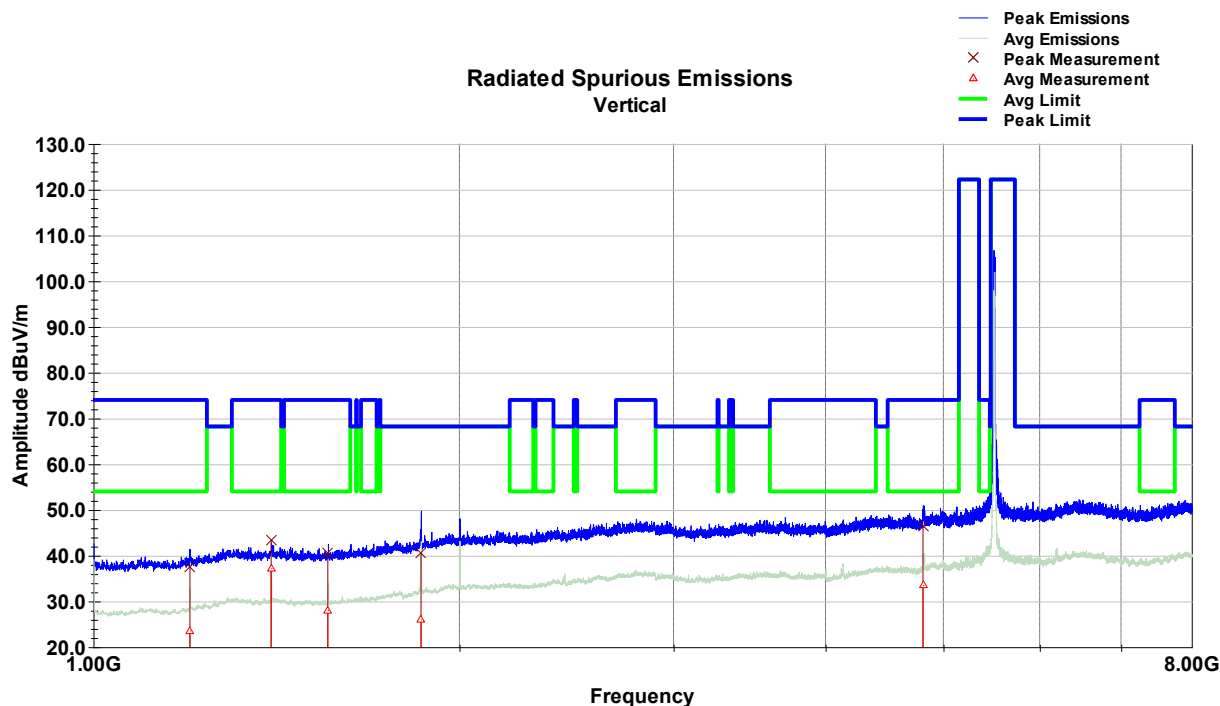


Horizontal Data – 30-1000MHz – Mid Channel

Frequency MHz	Raw QP dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	Amp dB	QP Value dBuV/m	Limit dBuV/m	Margin dB
56.23	49.6	H	187.0	325.0	11.5	0.9	32.0	30.0	100.0	-10.0
66.48	54.7	H	180.0	324.0	11.9	1.0	32.0	35.7	100.0	-4.3
174.99	47.3	H	104.0	137.0	15.5	1.6	31.8	32.8	100.0	-10.8
375.01	47.6	H	0.0	100.0	19.6	2.6	31.5	38.5	100.0	-7.5
417.46	39.1	H	359.0	248.0	20.6	2.8	31.4	31.2	100.0	-14.8
600.00	44.6	H	186.0	118.0	23.6	3.3	31.4	40.2	100.0	-5.8
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

3.13.3 1-18 GHz

Vertical Plot – 1-8GHz – Low Channel

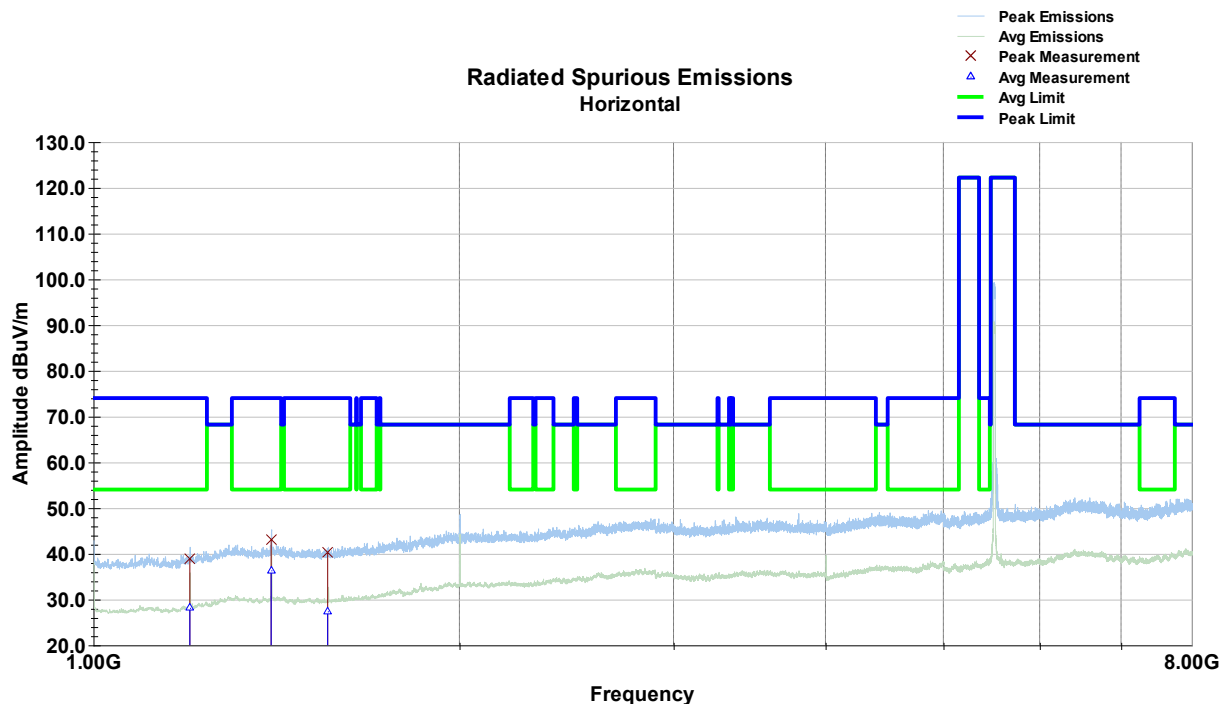


Vertical Data – 1-8GHz – Low Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1200.86	28.8	V	235.0	144.0	28.0	1.3	0.0	34.4	23.7	54.0	-30.3
1400.23	41.0	V	162.0	178.0	29.0	1.5	0.0	34.2	37.3	54.0	-16.7
1558.96	32.7	V	106.0	196.0	28.4	1.6	0.0	34.6	28.1	54.0	-25.9
1859.65	27.9	V	224.0	195.0	30.7	1.8	0.0	34.3	26.1	68.2	-42.1
4811.51	30.6	V	54.0	131.0	34.0	3.1	0.0	34.2	33.6	54.0	-20.4
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1200.86	42.6	V	235.0	144.0	28.0	1.3	0.0	34.4	37.5	74.0	-36.5
1400.23	47.1	V	162.0	178.0	29.0	1.5	0.0	34.2	43.4	74.0	-30.6
1558.96	45.3	V	106.0	196.0	28.4	1.6	0.0	34.6	40.7	74.0	-33.3
1859.65	42.2	V	224.0	195.0	30.7	1.8	0.0	34.3	40.5	68.2	-27.7
4811.51	43.4	V	54.0	131.0	34.0	3.1	0.0	34.2	46.3	74.0	-27.7
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Low Channel

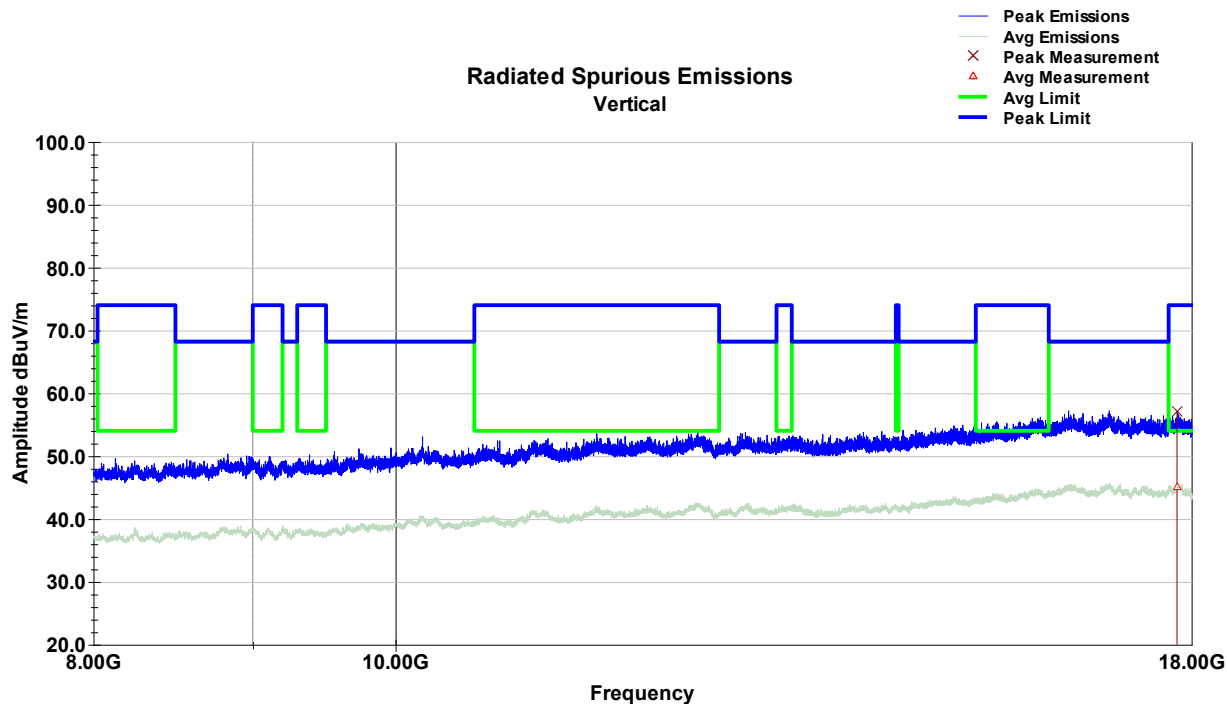


Horizontal Data – 1-8GHz – Low Channel

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1200.61	33.3	H	117.0	117.0	28.0	1.3	0.0	34.4	28.2	54.0	-25.8
1400.36	40.1	H	226.0	129.0	29.0	1.5	0.0	34.2	36.4	54.0	-17.6
1558.71	32.0	H	140.0	120.0	28.4	1.6	0.0	34.6	27.4	54.0	-26.6
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1200.61	44.0	H	117.0	117.0	28.0	1.3	0.0	34.4	38.9	74.0	-35.1
1400.36	46.9	H	226.0	129.0	29.0	1.5	0.0	34.2	43.2	74.0	-30.8
1558.71	44.8	H	140.0	120.0	28.4	1.6	0.0	34.6	40.2	74.0	-33.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Low Channel

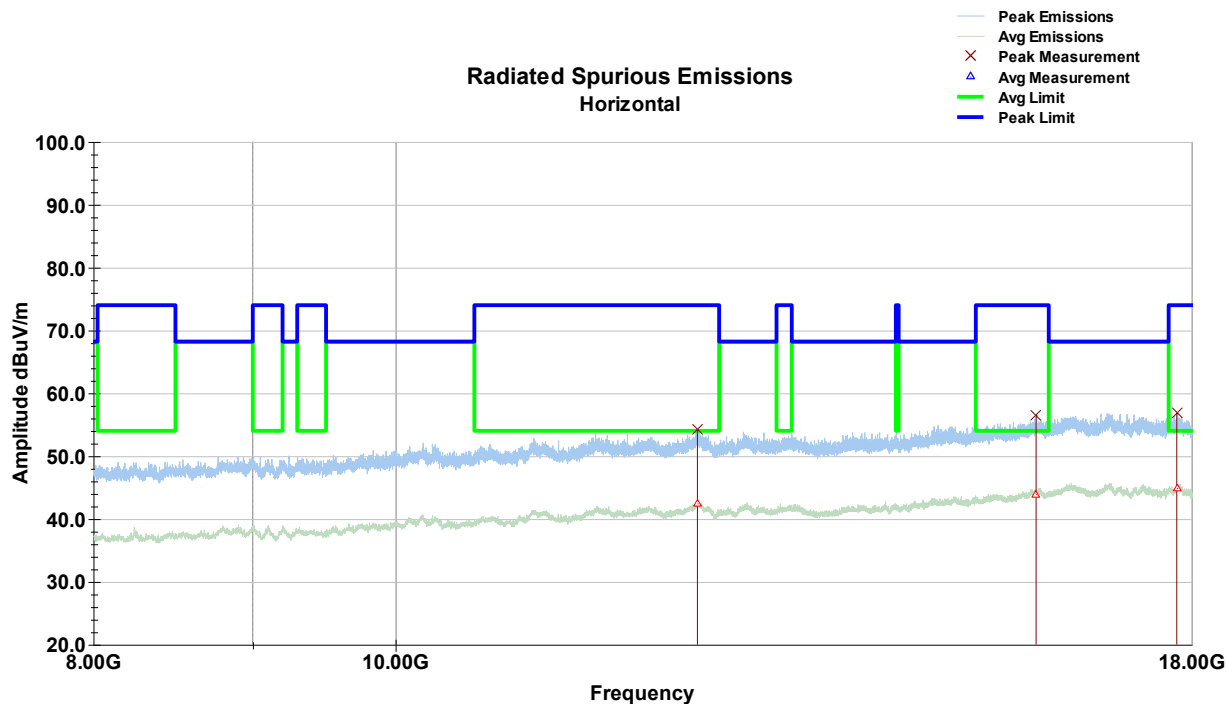


Vertical Data – 8-18GHz – Low Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
17809.00	35.0	V	10.0	150.0	41.0	5.7	0.0	36.6	45.1	54.0	-8.9
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
17809.00	47.1	V	10.0	150.0	41.0	5.7	0.0	36.6	57.2	74.0	-16.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Low Channel

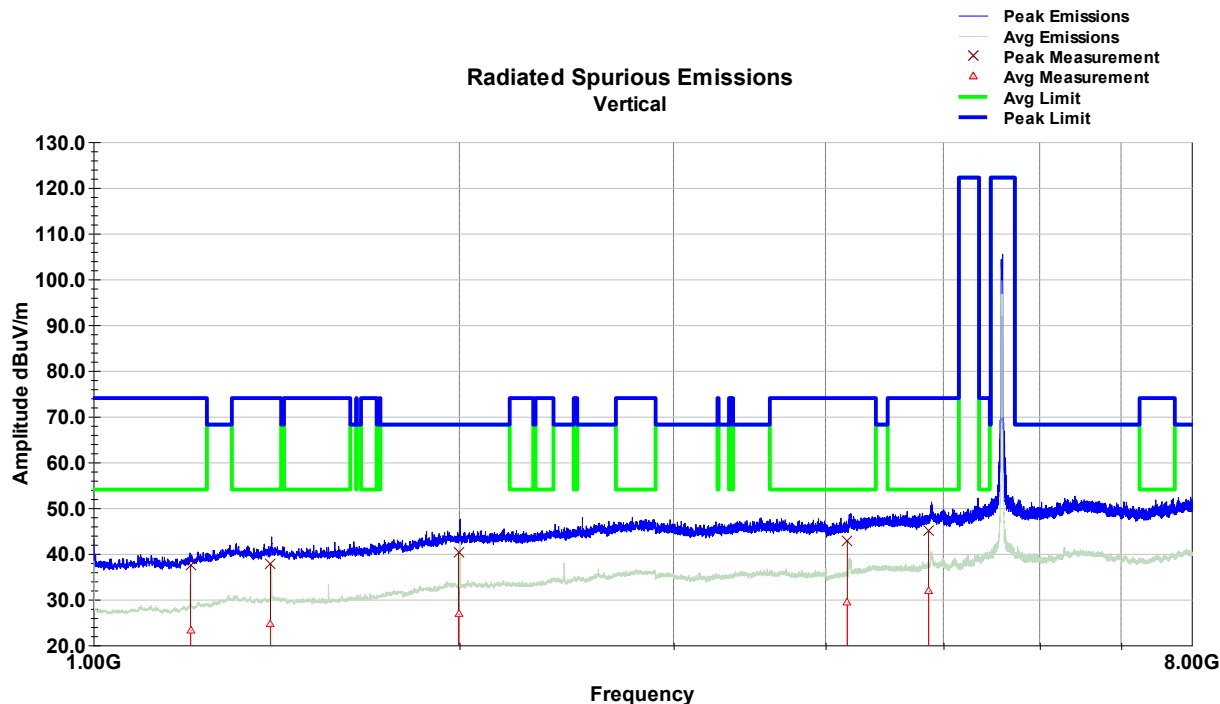


Horizontal Data – 8-18GHz – Low Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12497.50	33.9	H	135.0	250.0	39.2	4.9	0.0	35.6	42.5	54.0	-11.5
16049.50	33.6	H	181.0	200.0	40.9	5.4	0.0	35.9	44.0	54.0	-10.0
17806.00	34.8	H	0.0	150.0	41.0	5.7	0.0	36.6	44.9	54.0	-9.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12497.50	45.7	H	135.0	250.0	39.2	4.9	0.0	35.6	54.2	74.0	-19.8
16049.50	46.2	H	181.0	200.0	40.9	5.4	0.0	35.9	56.5	74.0	-17.5
17806.00	46.7	H	0.0	150.0	41.0	5.7	0.0	36.6	56.8	74.0	-17.2
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – Mid Channel

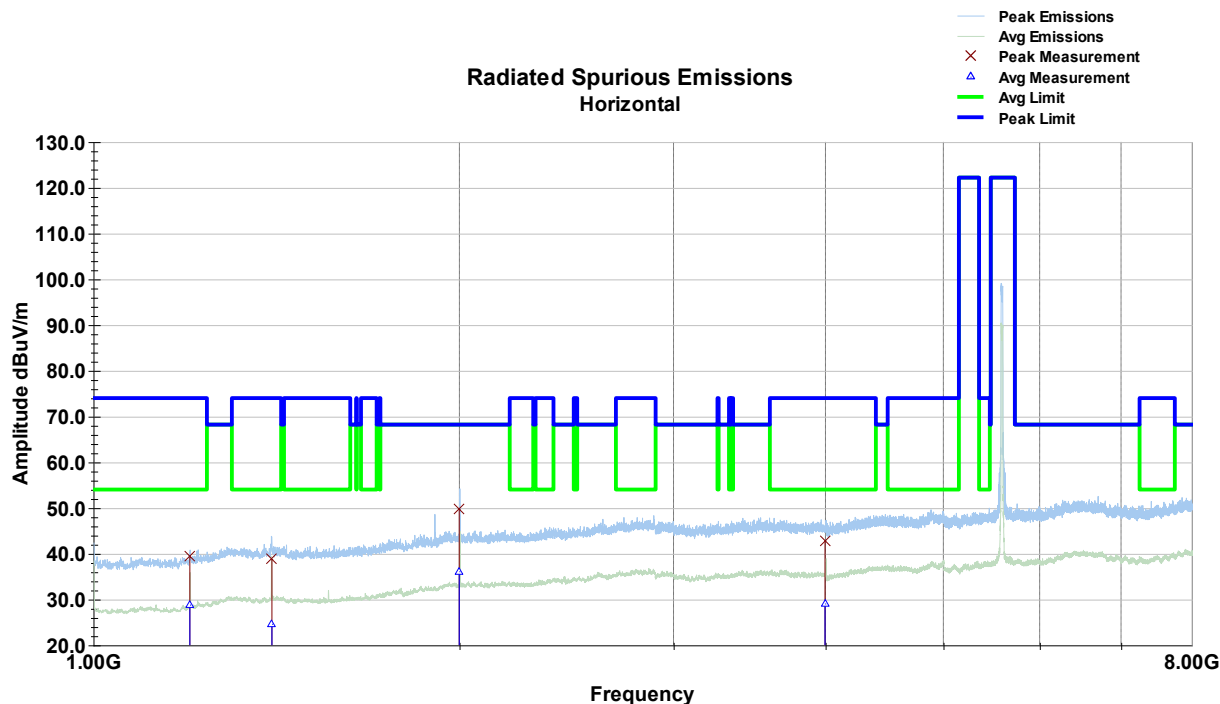


Vertical Data – 1-8GHz – Mid Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1202.29	28.4	V	213.0	113.0	28.0	1.3	0.0	34.4	23.3	54.0	-30.7
1398.50	28.3	V	2.0	138.0	29.0	1.5	0.0	34.3	24.5	54.0	-29.5
1996.56	28.1	V	39.0	102.0	31.4	2.0	0.0	34.7	26.8	68.2	-41.4
4169.03	27.3	V	300.0	202.0	33.5	2.8	0.0	34.2	29.4	54.0	-24.6
4862.23	28.9	V	50.0	185.0	34.1	3.2	0.0	34.3	31.9	54.0	-22.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1202.29	42.5	V	213.0	113.0	28.0	1.3	0.0	34.4	37.4	74.0	-36.6
1398.50	41.6	V	2.0	138.0	29.0	1.5	0.0	34.3	37.8	74.0	-36.2
1996.56	41.5	V	39.0	102.0	31.4	2.0	0.0	34.7	40.2	68.2	-28.0
4169.03	40.7	V	300.0	202.0	33.5	2.8	0.0	34.2	42.8	74.0	-31.2
4862.23	41.9	V	50.0	185.0	34.1	3.2	0.0	34.3	44.9	74.0	-29.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Mid Channel

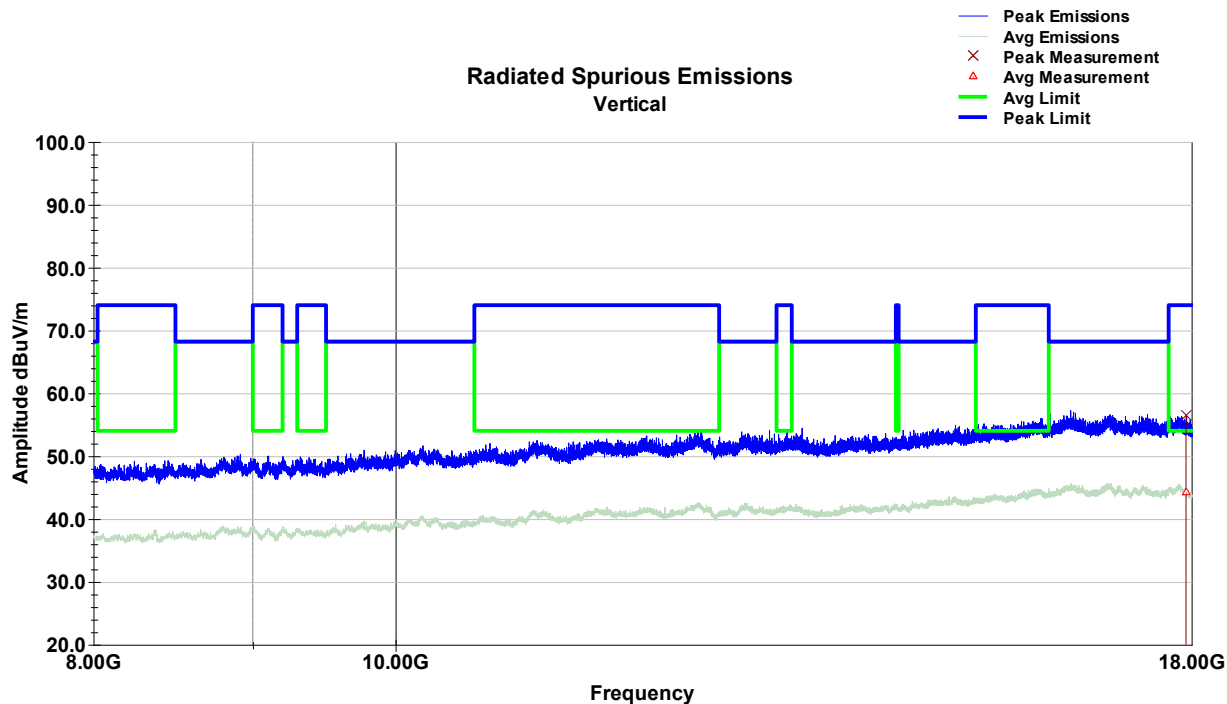


Horizontal Data – 1-8GHz – Mid Channel

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1200.61	34.0	H	117.0	158.0	28.0	1.3	0.0	34.4	28.9	54.0	-25.1
1402.48	28.5	H	324.0	107.0	29.0	1.5	0.0	34.3	24.7	54.0	-29.3
1999.34	37.5	H	196.0	139.0	31.4	2.0	0.0	34.7	36.2	68.2	-32.0
3996.33	27.7	H	26.0	118.0	33.3	2.7	0.0	34.4	29.1	54.0	-24.9
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1200.61	44.5	H	117.0	158.0	28.0	1.3	0.0	34.4	39.3	74.0	-34.7
1402.48	42.6	H	324.0	107.0	29.0	1.5	0.0	34.3	38.9	74.0	-35.1
1999.34	51.1	H	196.0	139.0	31.4	2.0	0.0	34.7	49.8	68.2	-18.4
3996.33	41.4	H	26.0	118.0	33.3	2.7	0.0	34.4	42.9	74.0	-31.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Mid Channel

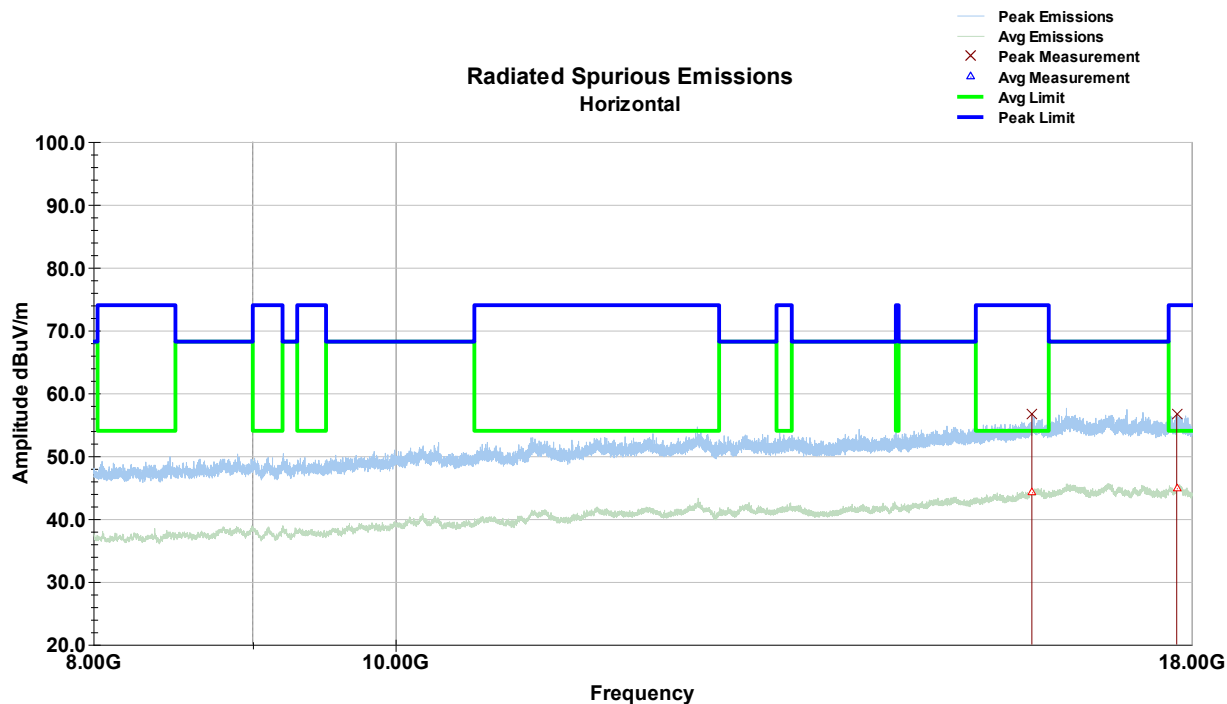


Vertical Data – 8-18GHz – Mid Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
17927.50	34.2	V	359.0	200.0	41.0	5.7	0.0	36.8	44.2	54.0	-9.8
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
17927.50	46.4	V	359.0	200.0	41.0	5.7	0.0	36.8	56.4	74.0	-17.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Mid Channel

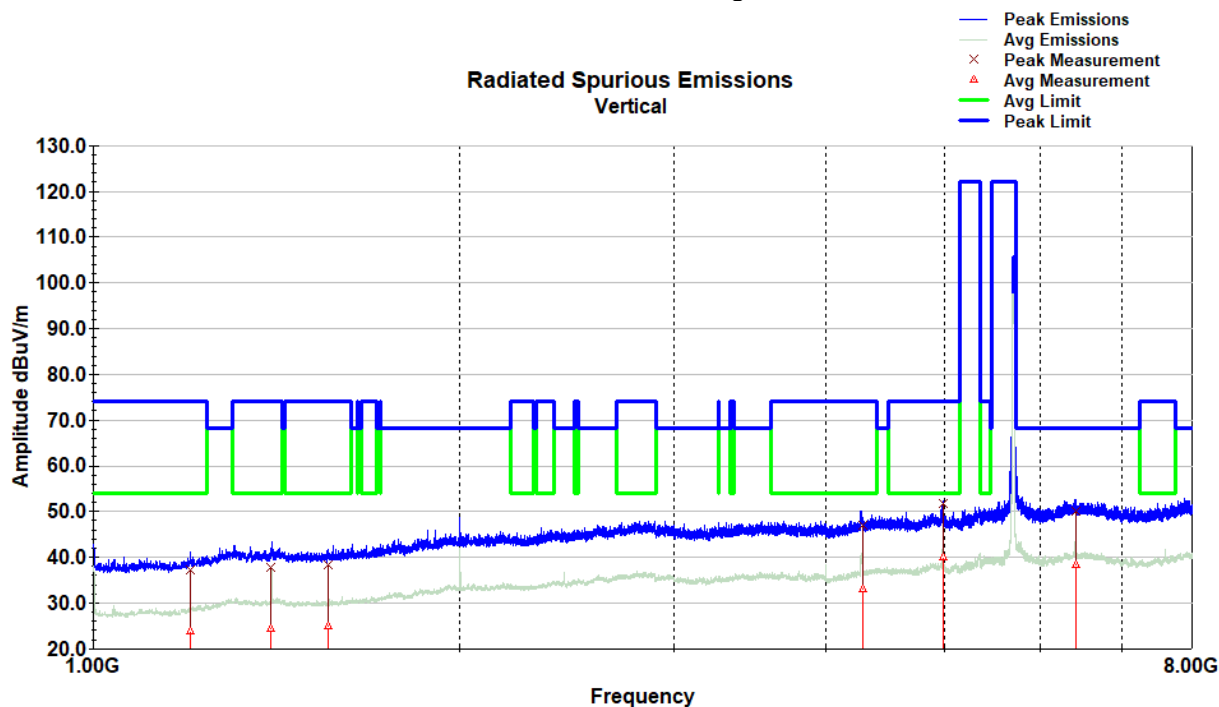


Horizontal Data – 8-18GHz – Mid Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
15999.00	33.9	H	182.0	200.0	40.9	5.3	0.0	35.9	44.3	54.0	-9.7
17805.00	34.8	H	197.0	150.0	41.0	5.7	0.0	36.6	44.9	54.0	-9.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
15999.00	46.4	H	182.0	200.0	40.9	5.3	0.0	35.9	56.7	74.0	-17.3
17805.00	46.6	H	197.0	150.0	41.0	5.7	0.0	36.6	56.7	74.0	-17.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – High Channel

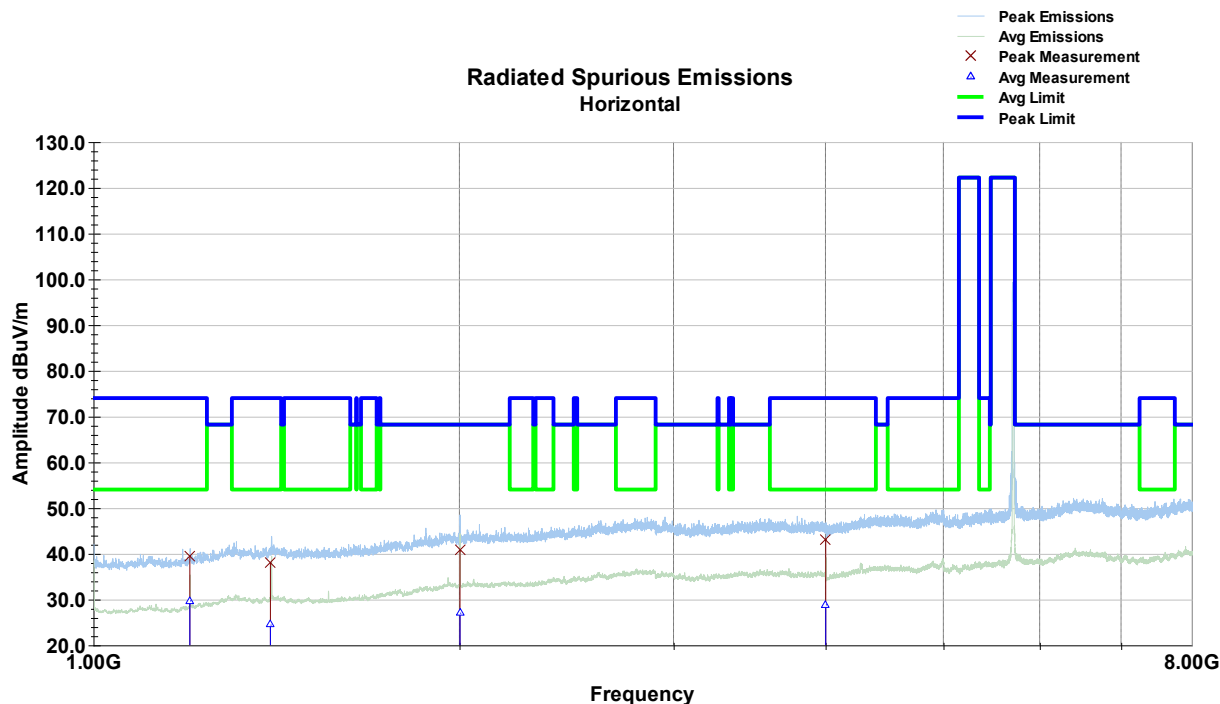


Vertical Data – 1-8GHz – High Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1200.60	28.8	V	345.0	181.0	28.0	1.3	0.0	34.4	23.7	54.0	-30.3
1398.12	28.1	V	324.0	131.0	29.0	1.5	0.0	34.3	24.4	54.0	-29.6
1558.58	29.5	V	92.0	106.0	28.4	1.6	0.0	34.6	24.9	54.0	-29.1
4283.80	31.0	V	59.0	247.0	33.4	2.7	0.0	34.2	33.0	54.0	-21.0
4995.98	36.5	V	329.0	249.0	34.1	3.1	0.0	33.9	39.9	54.0	-14.1
6418.40	33.1	V	80.0	250.0	35.8	3.5	0.0	34.2	38.3	68.2	-29.9
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1200.60	42.5	V	345.0	181.0	28.0	1.3	0.0	34.4	37.3	74.0	-36.7
1398.12	41.4	V	324.0	131.0	29.0	1.5	0.0	34.3	37.7	74.0	-36.3
1558.58	42.9	V	92.0	106.0	28.4	1.6	0.0	34.6	38.3	74.0	-35.7
4283.80	45.1	V	59.0	247.0	33.4	2.7	0.0	34.2	47.1	74.0	-26.9
4995.98	48.3	V	329.0	249.0	34.1	3.1	0.0	33.9	51.7	74.0	-22.3
6418.40	44.8	V	80.0	250.0	35.8	3.5	0.0	34.2	50.0	68.2	-18.2
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – High Channel

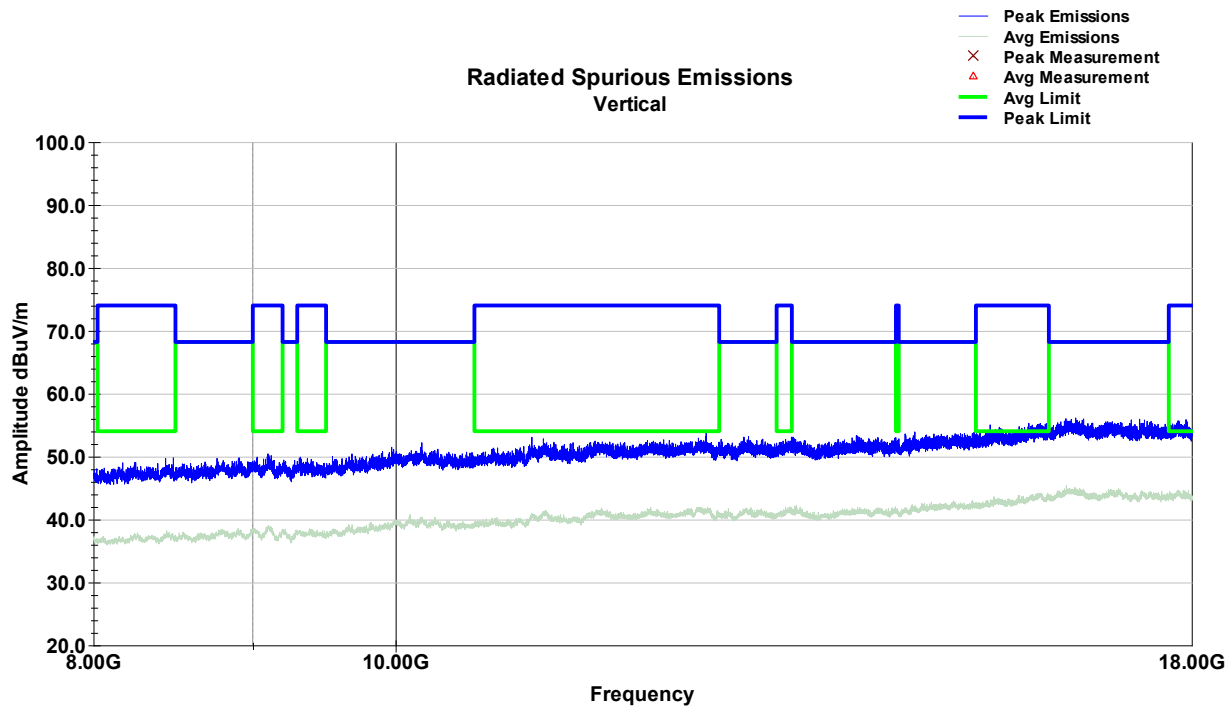


Horizontal Data – 1-8GHz – High Channel

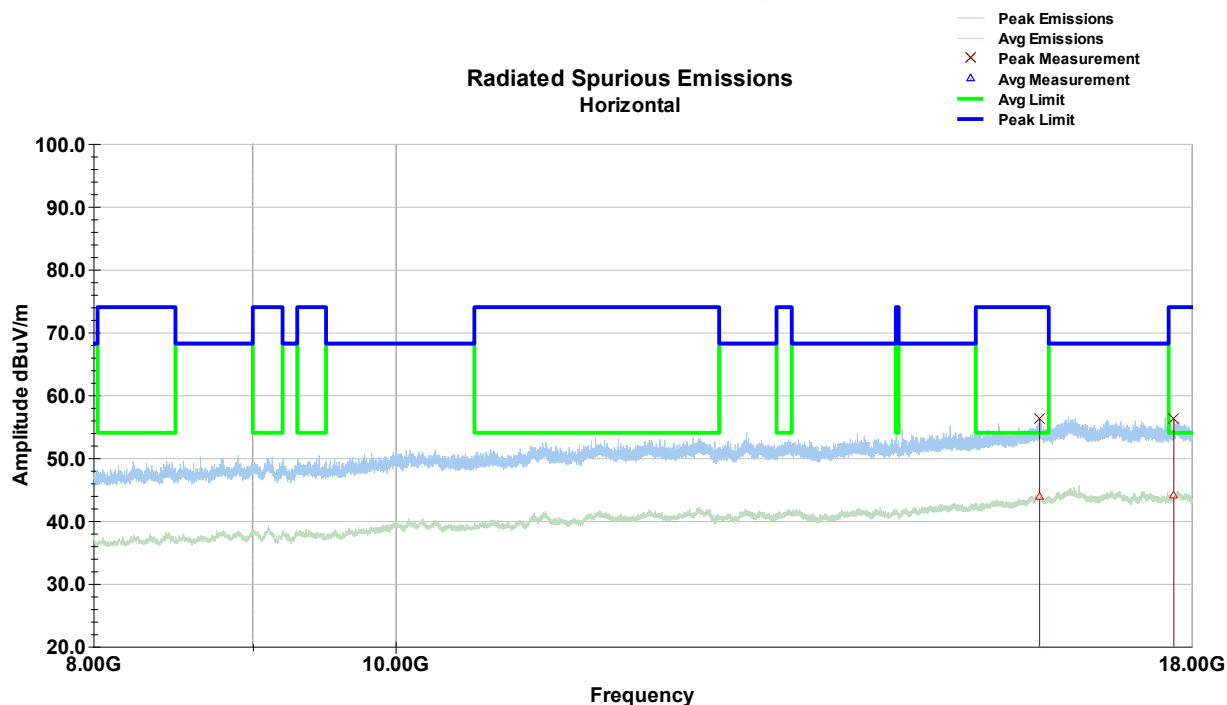
Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1200.61	34.9	H	123.0	169.0	28.0	1.3	0.0	34.4	29.8	54.0	-24.2
1398.25	28.3	H	32.0	112.0	29.0	1.5	0.0	34.3	24.5	54.0	-29.5
2002.36	28.5	H	196.0	107.0	31.4	2.0	0.0	34.7	27.1	68.2	-41.1
4002.36	27.4	H	0.0	147.0	33.3	2.7	0.0	34.4	28.9	54.0	-25.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1200.61	44.6	H	123.0	169.0	28.0	1.3	0.0	34.4	39.5	74.0	-34.5
1398.25	41.9	H	32.0	112.0	29.0	1.5	0.0	34.3	38.1	74.0	-35.9
2002.36	42.1	H	196.0	107.0	31.4	2.0	0.0	34.7	40.7	68.2	-27.5
4002.36	41.7	H	0.0	147.0	33.3	2.7	0.0	34.4	43.2	74.0	-30.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – High Channel



Horizontal Plot – 8-18GHz – High Channel



Horizontal Data – 8-18GHz – High Channel

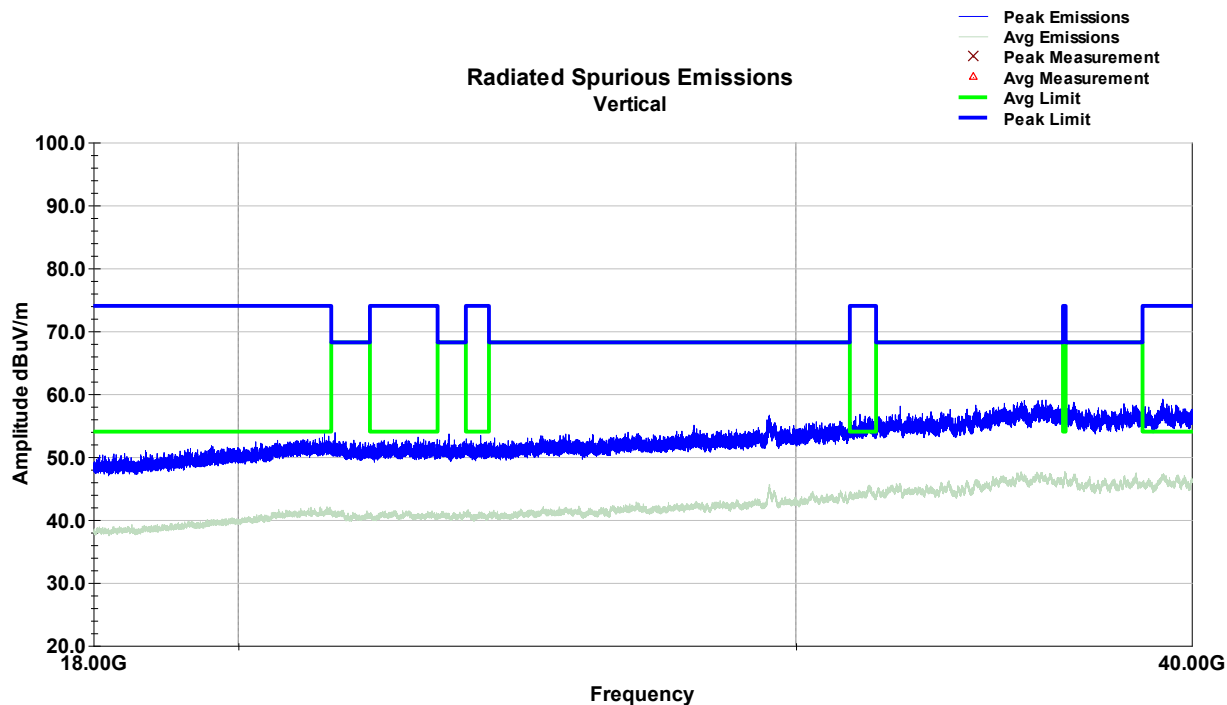
Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16091.50	34.1	H	290.0	250.0	40.9	4.7	0.0	35.9	43.8	54.0	-10.2
17768.00	34.8	H	273.0	200.0	40.9	4.9	0.0	36.7	44.0	54.0	-10.0
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16091.50	46.5	H	290.0	250.0	40.9	4.7	0.0	35.9	56.2	74.0	-17.8
17768.00	47.0	H	273.0	200.0	41.0	4.9	0.0	36.7	56.2	74.0	-17.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

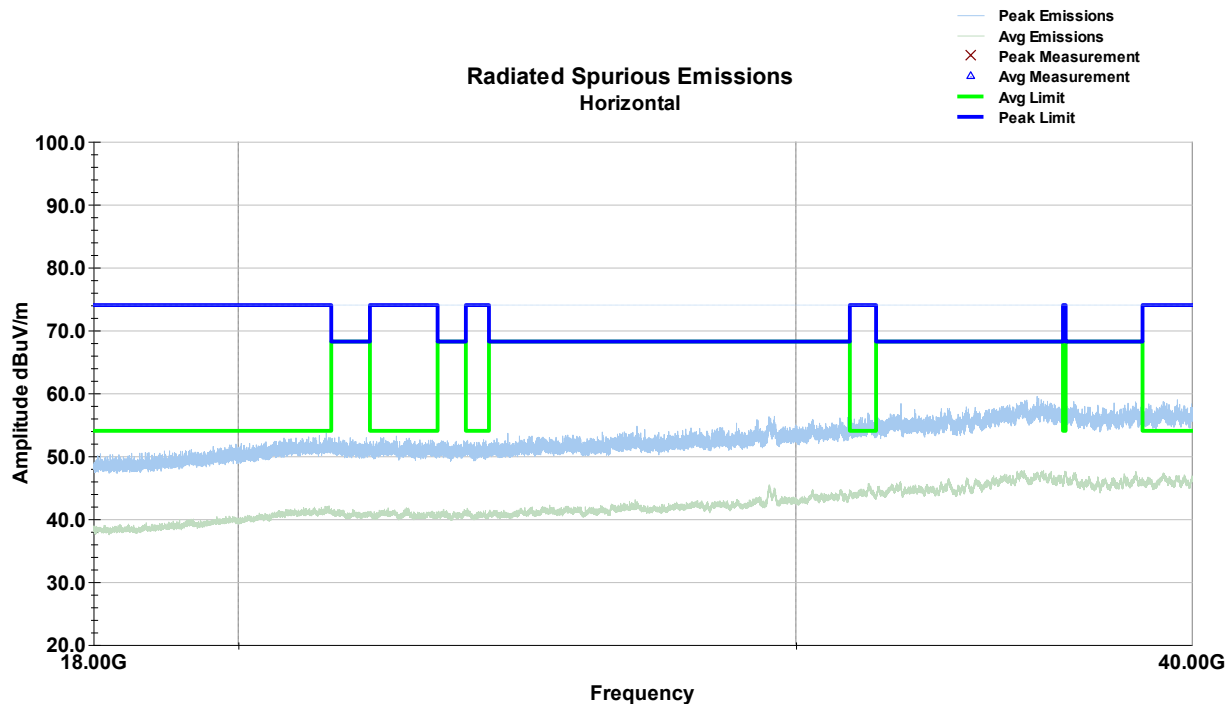
3.13.4 18-40 GHz

All channels had similar plots in the 18-40GHz frequency range.

Vertical Plot – 18-40GHz – Mid Channel



Horizontal Plot – 18-40GHz – Mid Channel

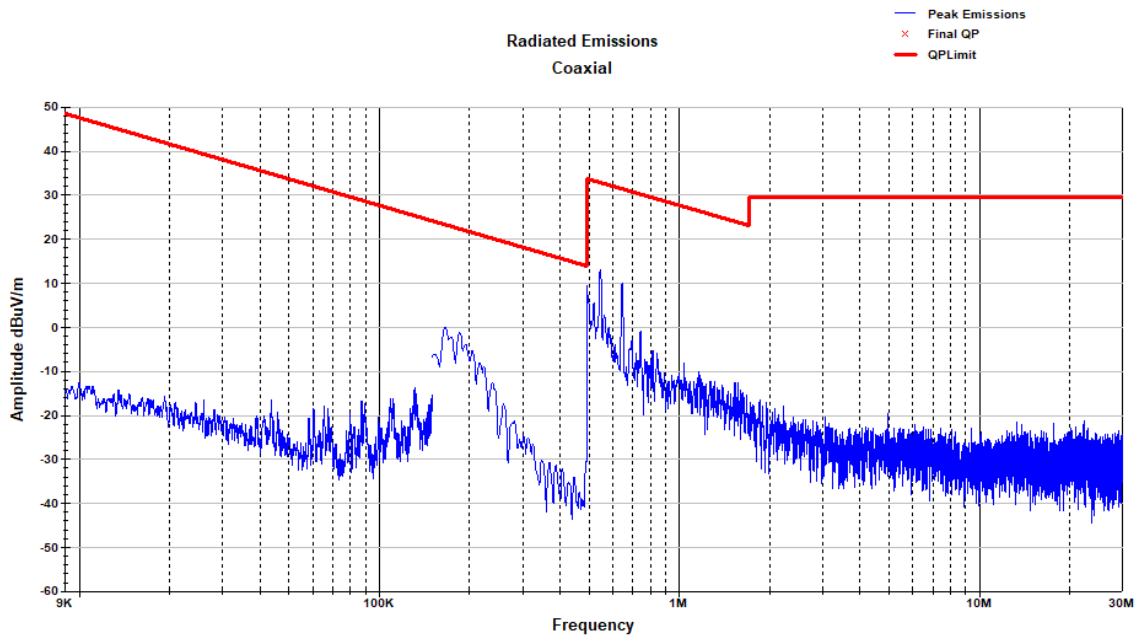


3.14 Test Data – U-NII Band 3 – 802.11a

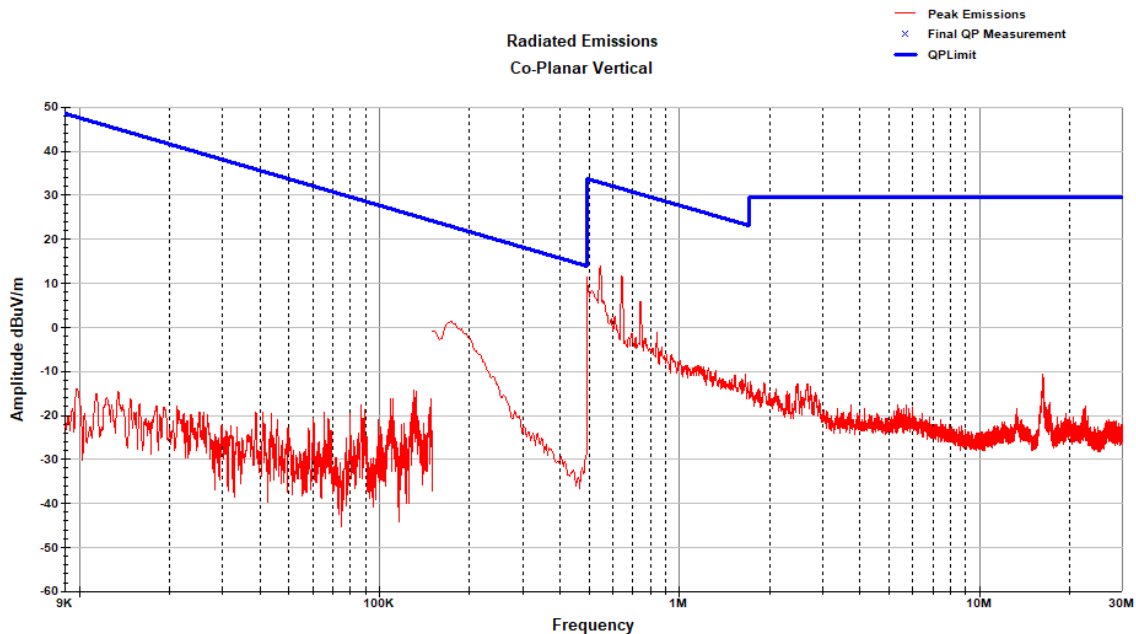
3.14.1 9kHz – 30MHz

All channels had similar plots in the 9kHz to 30MHz frequency range.

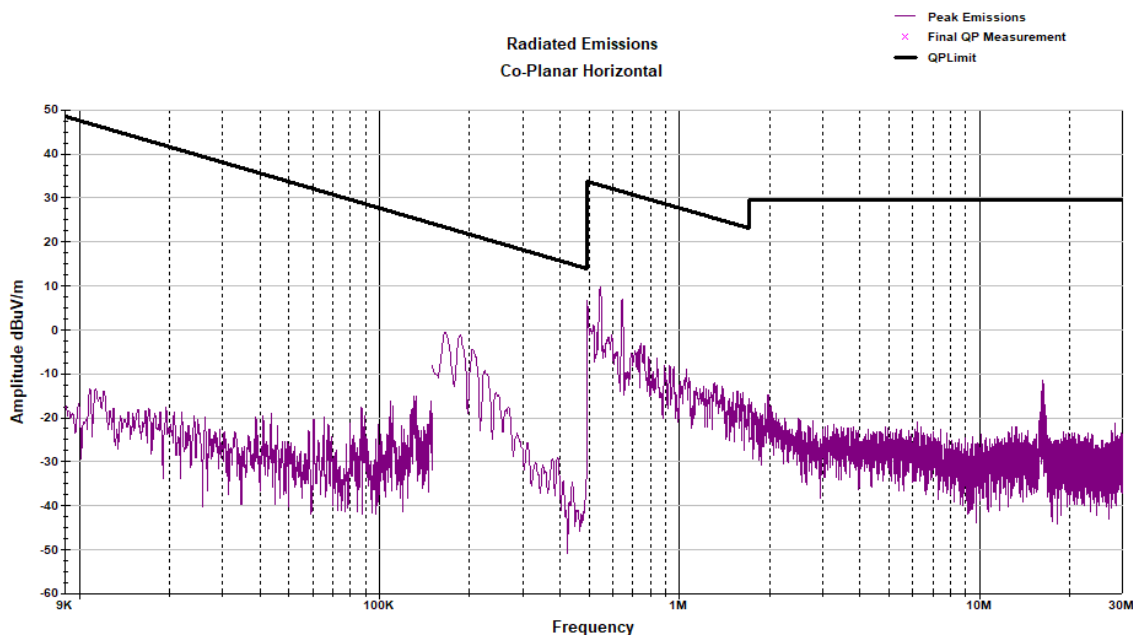
Coaxial Plot – 9 kHz-30MHz – Mid Channel



Co-Planar Vertical Plot – 9 kHz-30MHz – Mid Channel



Co-Planar Horizontal Plot – 9 kHz-30MHz – Mid Channel

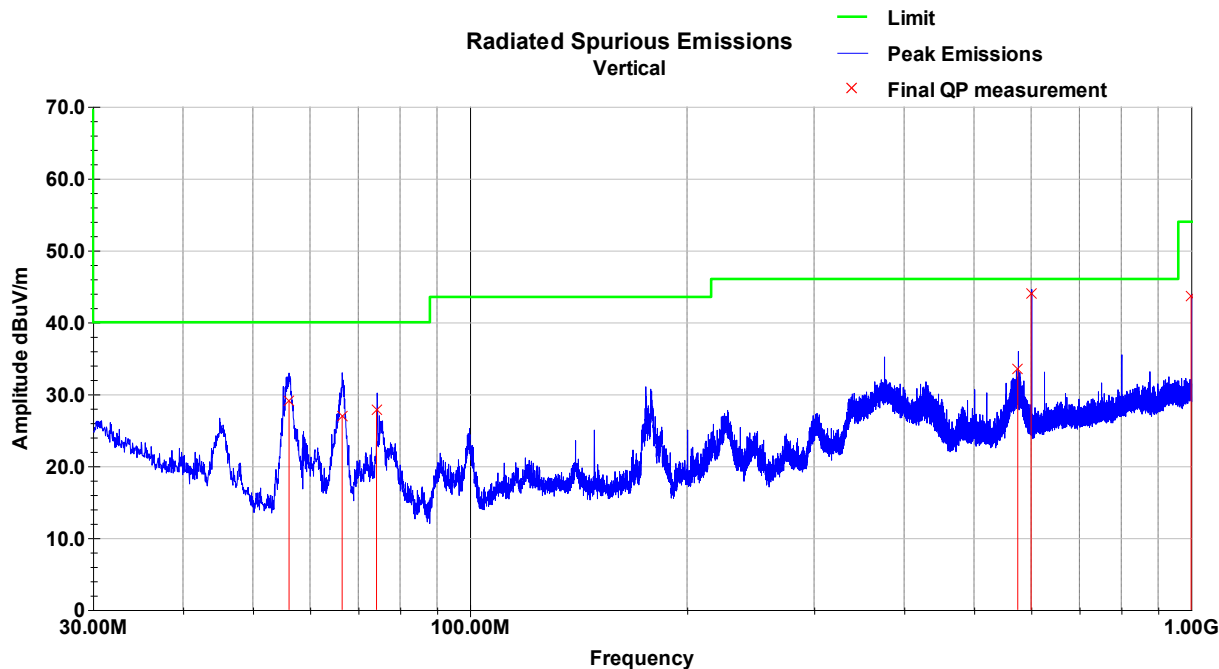


No emissions within 20dB of the limit

3.14.2 30-1000 MHz

All channels were measured and had similar plots – the worst-case plots are shown below.

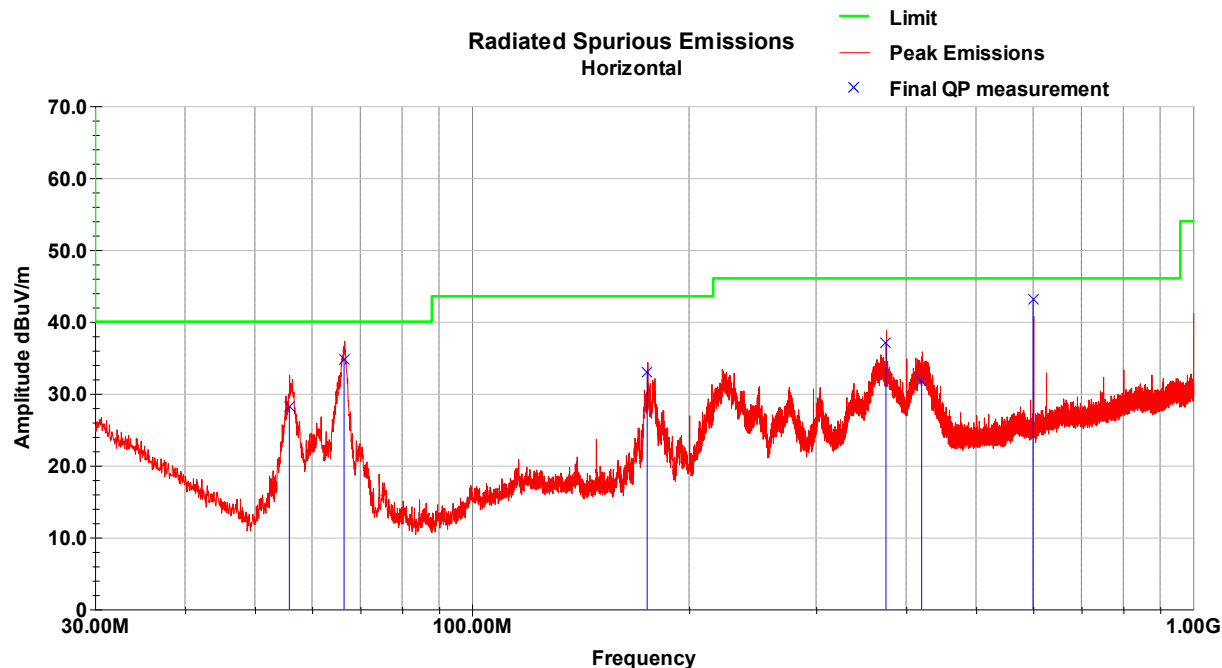
Vertical Plot – 30-1000MHz – Low Channel



Vertical Data – 30-1000MHz – Low Channel

Frequency MHz	Raw QP dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	Amp dB	QP Value dBuV/m	Limit dBuV/m	Margin dB
56.12	48.6	V	110.0	285.0	11.5	0.9	32.0	29.0	100.0	-11.0
66.50	46.0	V	111.0	204.0	11.9	1.0	32.0	27.0	100.0	-13.0
74.21	46.4	V	51.0	116.0	12.2	1.0	31.9	27.8	40.0	-12.2
575.02	38.0	V	321.0	100.0	23.4	3.3	31.3	33.5	100.0	-12.5
600.00	48.5	V	332.0	100.0	23.6	3.3	31.4	44.1	100.0	-2.0
1000.00	42.9	V	206.0	100.0	27.9	4.0	31.0	43.7	54.0	-10.3
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

Horizontal Plot – 30-1000MHz – Low Channel

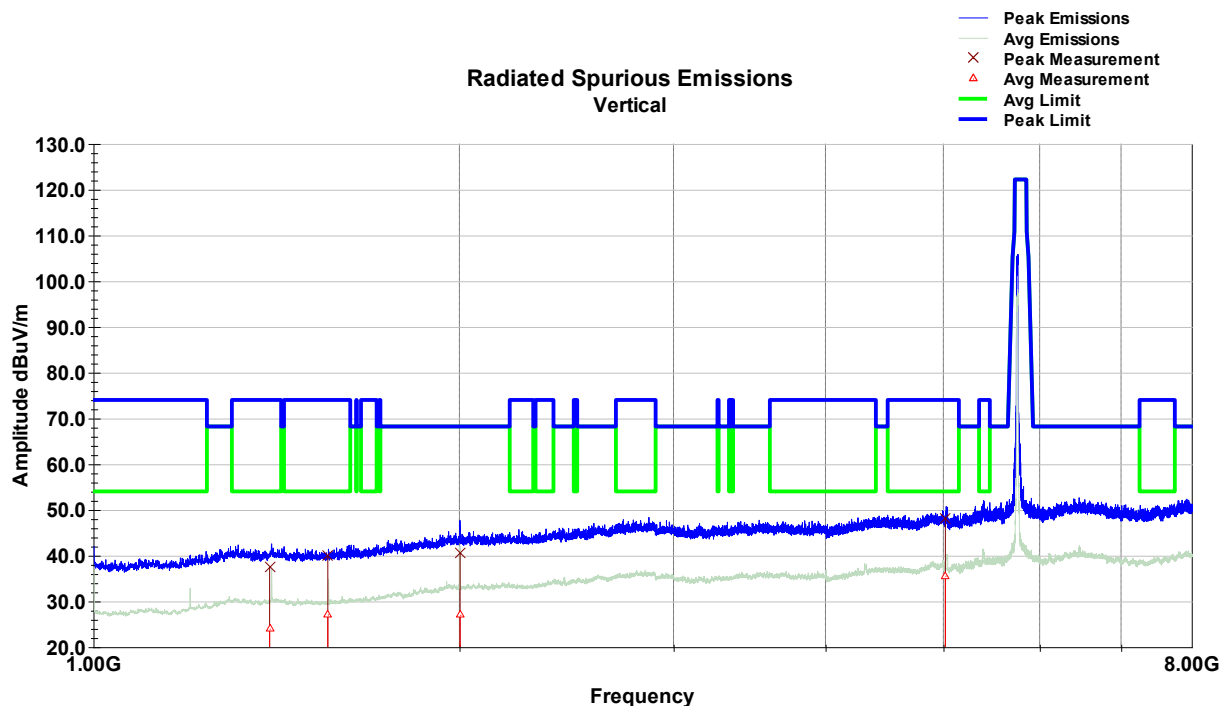


Horizontal Data – 30-1000MHz – Low Channel

Frequency MHz	Raw QP dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	Amp dB	QP Value dBuV/m	Limit dBuV/m	Margin dB
55.81	47.7	H	169.0	324.0	11.5	0.9	32.0	28.1	100.0	-11.9
66.47	53.9	H	162.0	361.0	11.9	1.0	32.0	34.8	100.0	-5.2
175.00	47.6	H	120.0	205.0	15.5	1.6	31.8	33.0	100.0	-10.5
375.01	46.3	H	0.0	265.0	19.6	2.6	31.5	37.1	100.0	-8.9
420.35	39.5	H	358.0	224.0	20.7	2.8	31.4	31.8	100.0	-14.2
600.01	47.5	H	192.0	118.0	23.6	3.3	31.4	43.1	100.0	-3.0
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

3.14.3 1-18 GHz

Vertical Plot – 1-8GHz – Low Channel

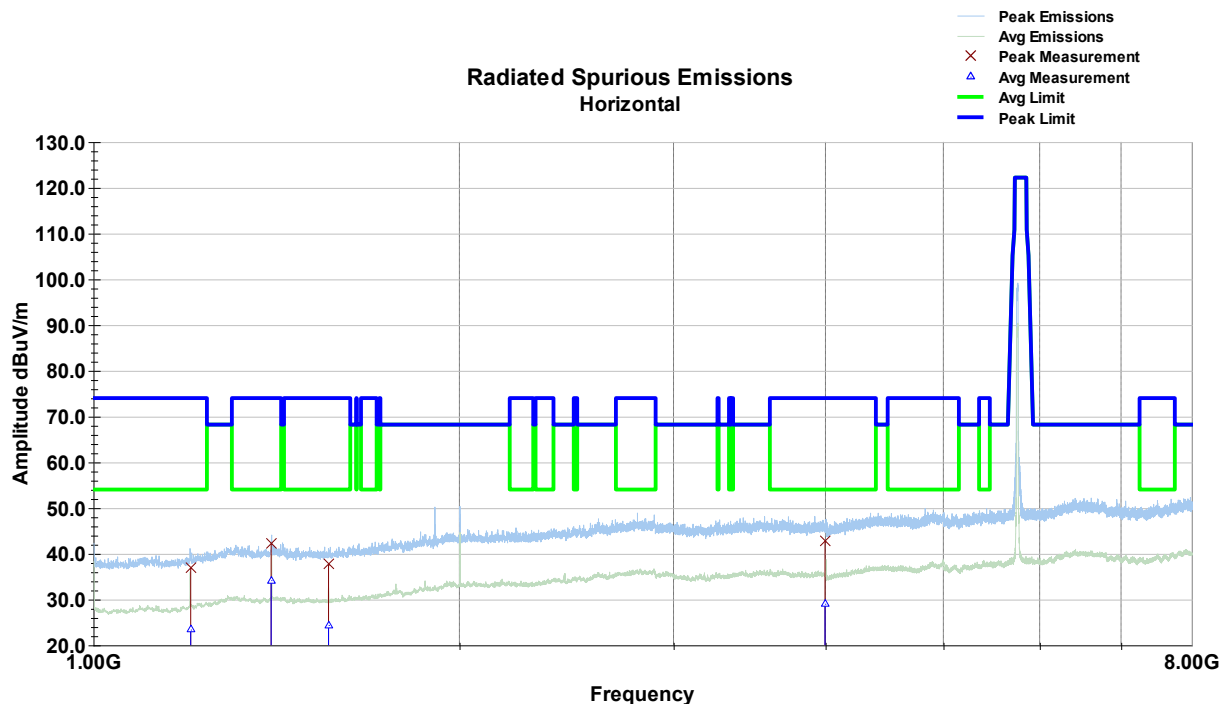


Vertical Data – 1-8GHz – Low Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1396.40	27.8	V	221.0	131.0	29.0	1.5	0.0	34.3	24.0	54.0	-30.0
1558.96	31.7	V	94.0	114.0	28.4	1.6	0.0	34.6	27.2	54.0	-26.8
2002.61	28.4	V	49.0	117.0	31.4	2.0	0.0	34.7	27.0	68.2	-41.2
5019.15	32.3	V	314.0	230.0	34.1	3.2	0.0	34.1	35.6	54.0	-18.4
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1396.40	41.3	V	221.0	131.0	29.0	1.5	0.0	34.3	37.5	74.0	-36.5
1558.96	44.5	V	94.0	114.0	28.4	1.6	0.0	34.6	39.9	74.0	-34.1
2002.61	41.8	V	49.0	117.0	31.4	2.0	0.0	34.7	40.5	68.2	-27.7
5019.15	44.9	V	314.0	230.0	34.1	3.2	0.0	34.1	48.2	74.0	-25.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Low Channel

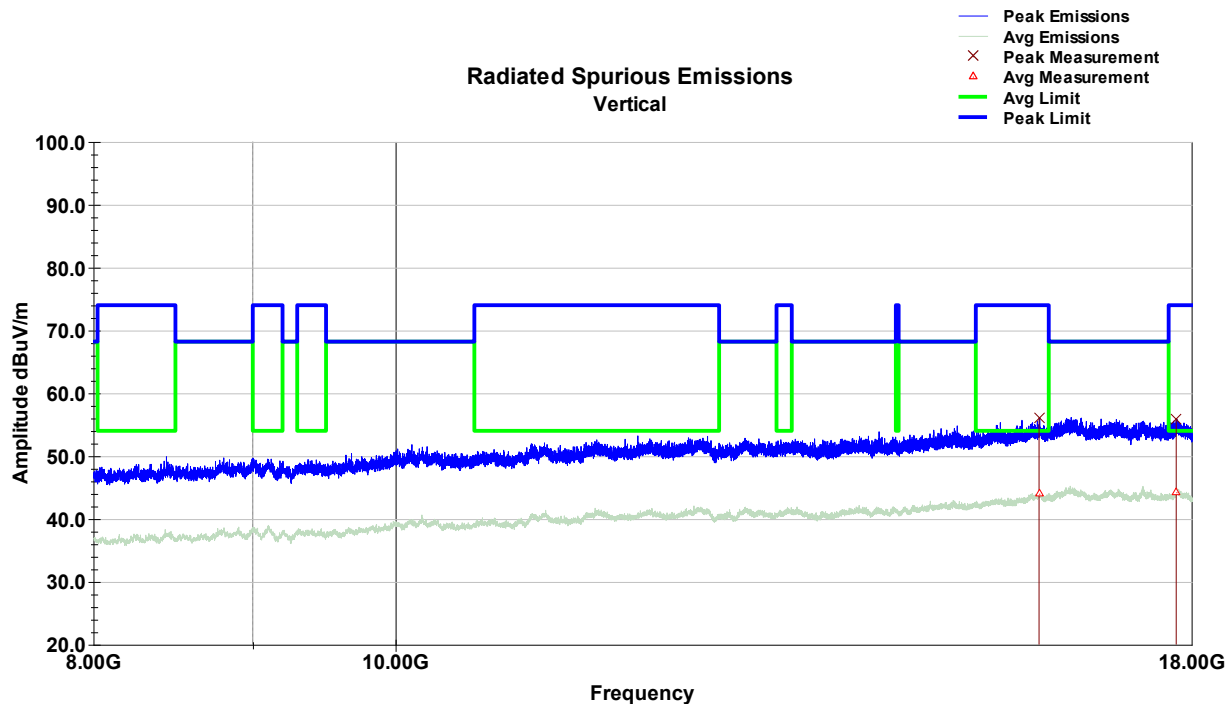


Horizontal Data – 1-8GHz – Low Channel

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1202.42	28.5	H	267.0	135.0	28.0	1.3	0.0	34.4	23.4	54.0	-30.6
1400.36	38.0	H	230.0	102.0	29.0	1.5	0.0	34.2	34.2	54.0	-19.8
1561.07	29.0	H	139.0	109.0	28.4	1.6	0.0	34.6	24.4	54.0	-29.6
3996.33	27.6	H	214.0	127.0	33.3	2.7	0.0	34.4	29.1	54.0	-24.9
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1202.42	41.9	H	267.0	135.0	28.0	1.3	0.0	34.4	36.9	74.0	-37.1
1400.36	45.9	H	230.0	102.0	29.0	1.5	0.0	34.2	42.2	74.0	-31.8
1561.07	42.2	H	139.0	109.0	28.4	1.6	0.0	34.6	37.7	74.0	-36.3
3996.33	41.2	H	214.0	127.0	33.3	2.7	0.0	34.4	42.7	74.0	-31.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Low Channel

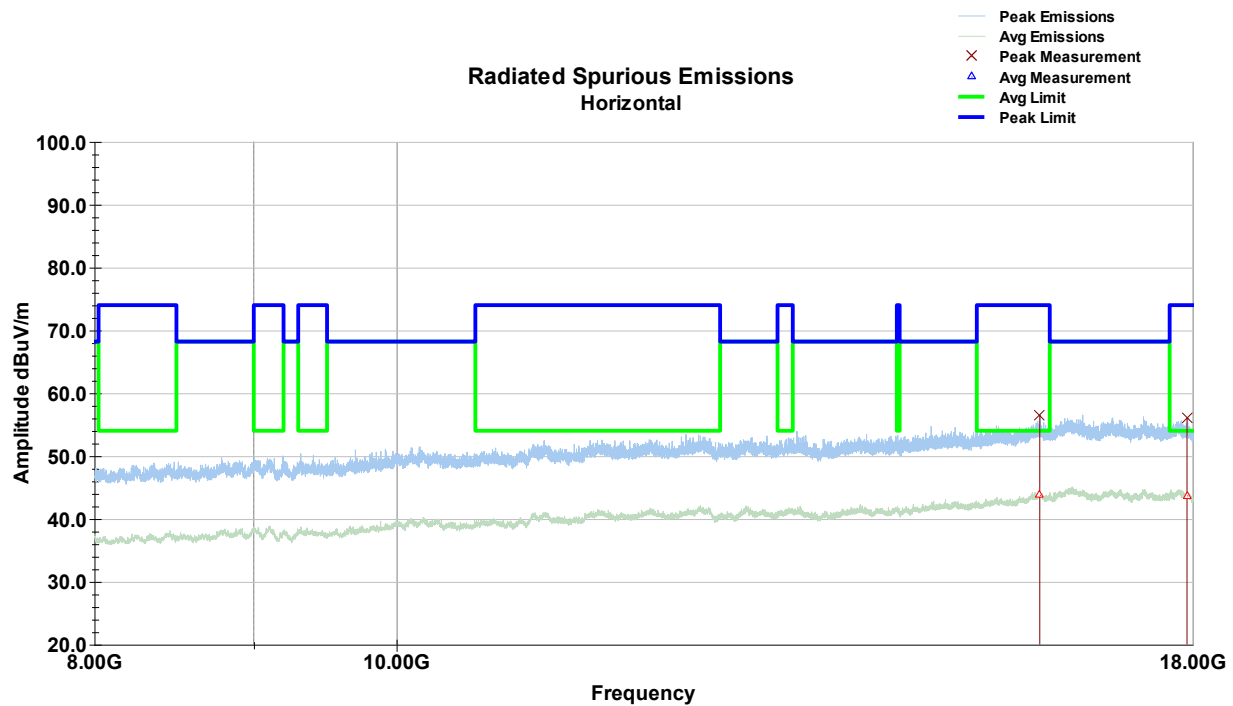


Vertical Data – 8-18GHz – Low Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16084.50	34.3	V	172.0	250.0	40.9	4.7	0.0	35.9	44.0	54.0	-10.0
17799.00	34.9	V	360.0	150.0	41.0	4.9	0.0	36.6	44.3	54.0	-9.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16084.50	46.5	V	172.0	250.0	40.9	4.7	0.0	35.9	56.2	74.0	-17.8
17799.00	46.6	V	360.0	150.0	41.0	4.9	0.0	36.6	56.0	74.0	-18.0
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Low Channel

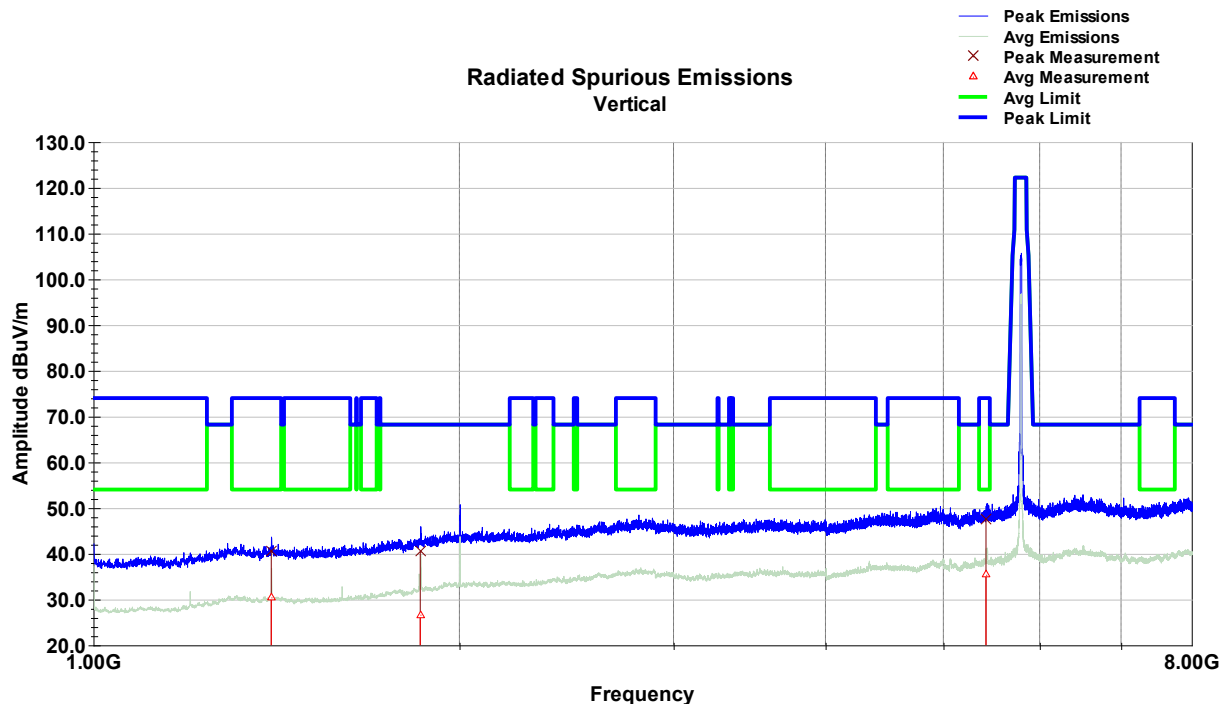


Horizontal Data – 8-18GHz – Low Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16080.50	34.1	H	43.0	150.0	40.9	4.7	0.0	35.9	43.8	54.0	-10.2
17928.50	34.4	H	172.0	200.0	41.0	5.1	0.0	36.8	43.7	54.0	-10.3
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
16080.50	46.8	H	43.0	150.0	40.9	4.7	0.0	35.9	56.5	74.0	-17.5
17928.50	46.7	H	172.0	200.0	41.0	5.1	0.0	36.8	56.1	74.0	-17.9
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – Mid Channel

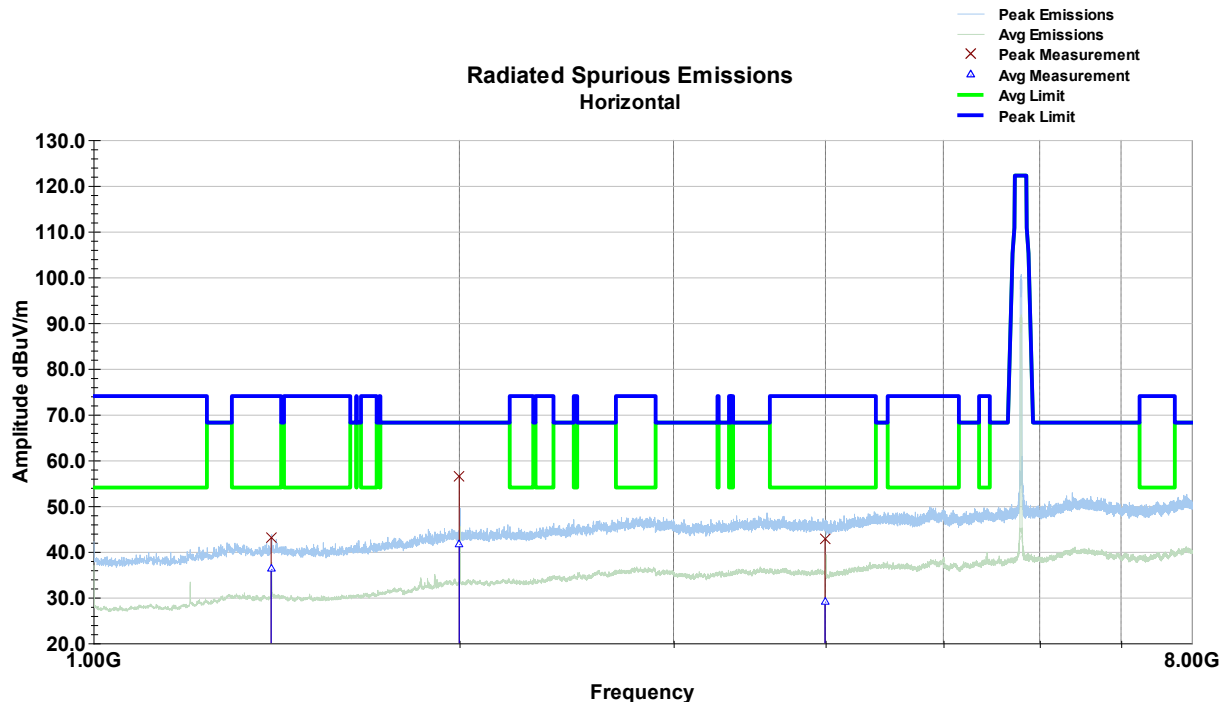


Vertical Data – 1-8GHz – Mid Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1400.59	34.2	V	154.0	166.0	29.0	1.5	0.0	34.2	30.5	54.0	-23.5
1856.97	28.5	V	155.0	102.0	30.7	1.8	0.0	34.3	26.7	68.2	-41.5
5420.58	31.9	V	9.0	250.0	34.5	3.1	0.0	34.1	35.4	54.0	-18.6
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1400.59	44.4	V	154.0	166.0	29.0	1.5	0.0	34.2	40.6	74.0	-33.4
1856.97	42.2	V	155.0	102.0	30.7	1.8	0.0	34.3	40.5	68.2	-27.7
5420.58	44.1	V	9.0	250.0	34.5	3.1	0.0	34.1	47.6	74.0	-26.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Mid Channel

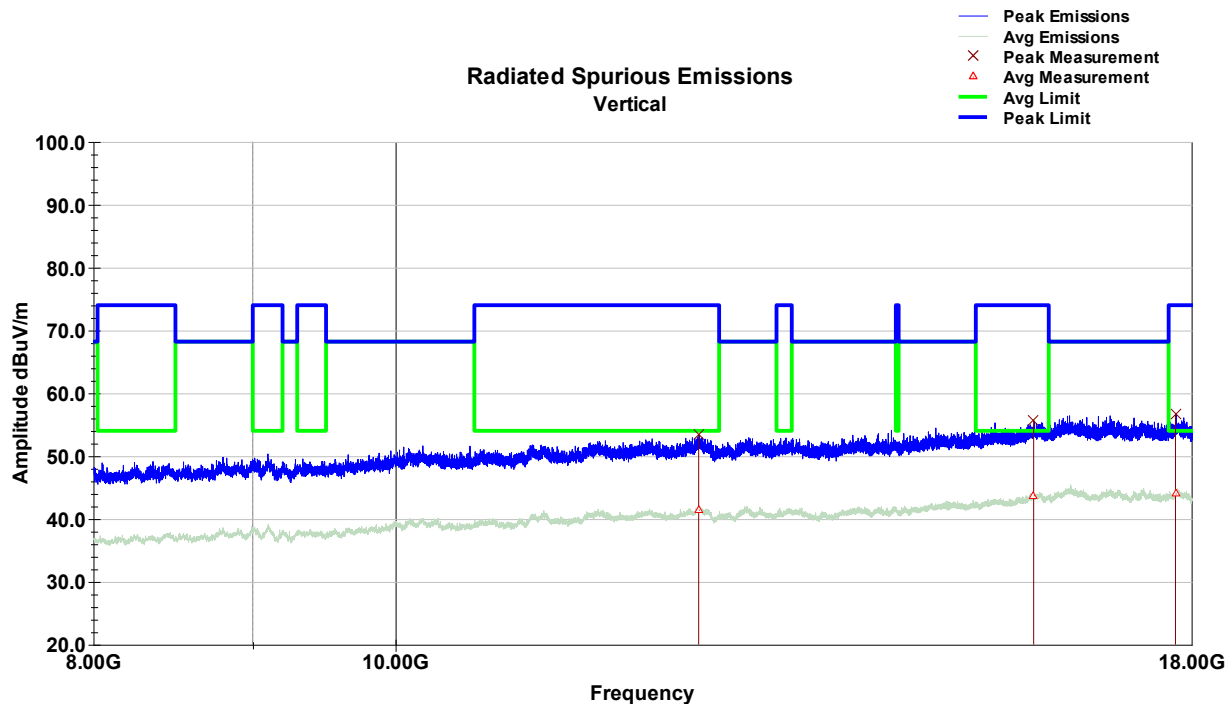


Horizontal Data – 1-8GHz – Mid Channel

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1400.36	40.0	H	104.0	213.0	29.0	1.5	0.0	34.2	36.3	54.0	-17.7
1999.34	43.0	H	128.0	207.0	31.4	2.0	0.0	34.7	41.7	68.2	-26.5
3996.33	27.6	H	101.0	193.0	33.3	2.7	0.0	34.4	29.1	54.0	-24.9
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1400.36	46.8	H	104.0	213.0	29.0	1.5	0.0	34.2	43.1	74.0	-30.9
1999.34	57.8	H	128.0	207.0	31.4	2.0	0.0	34.7	56.5	68.2	-11.7
3996.33	41.2	H	101.0	193.0	33.3	2.7	0.0	34.4	42.7	74.0	-31.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Mid Channel

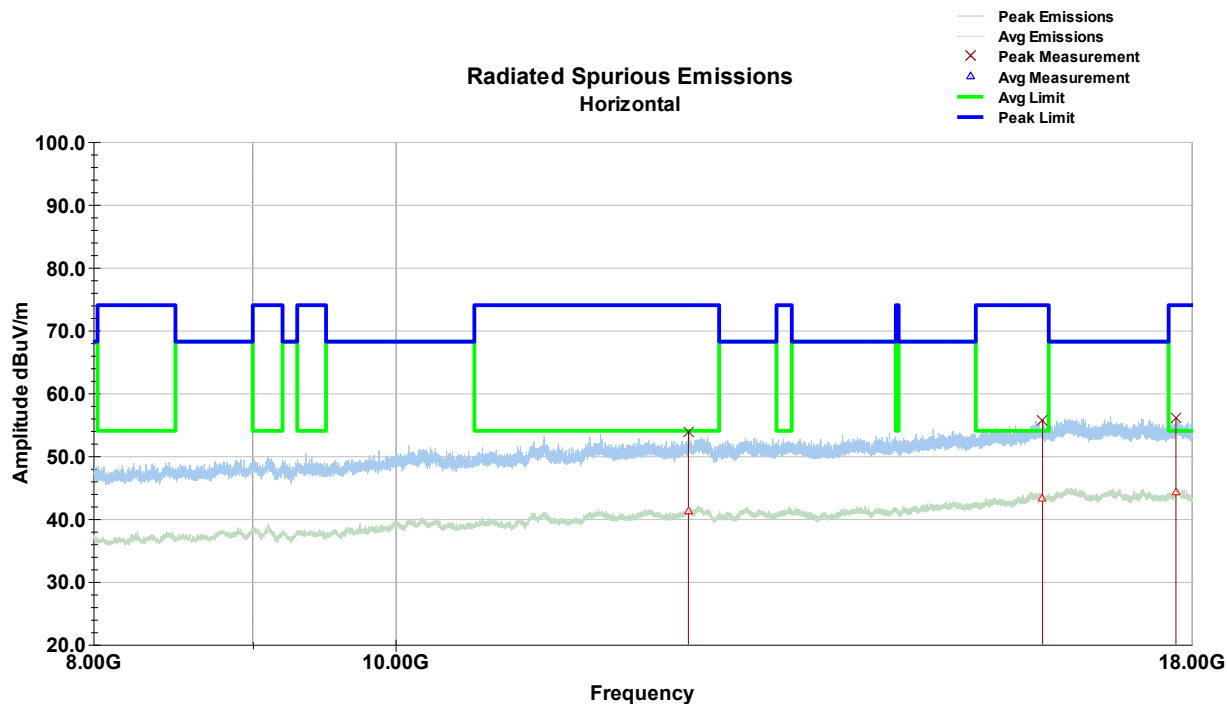


Vertical Data – 8-18GHz – Mid Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12509.00	33.7	V	218.0	250.0	39.2	4.2	0.0	35.6	41.5	54.0	-12.5
16020.50	34.1	V	68.0	100.0	40.9	4.7	0.0	35.9	43.8	54.0	-10.2
17789.00	34.8	V	110.0	150.0	41.0	4.9	0.0	36.6	44.0	54.0	-10.0
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12509.00	45.6	V	218.0	250.0	39.2	4.2	0.0	35.6	53.4	74.0	-20.6
16020.50	45.9	V	68.0	100.0	40.9	4.7	0.0	35.9	55.6	74.0	-18.4
17789.00	47.4	V	110.0	150.0	41.0	4.9	0.0	36.6	56.7	74.0	-17.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Mid Channel

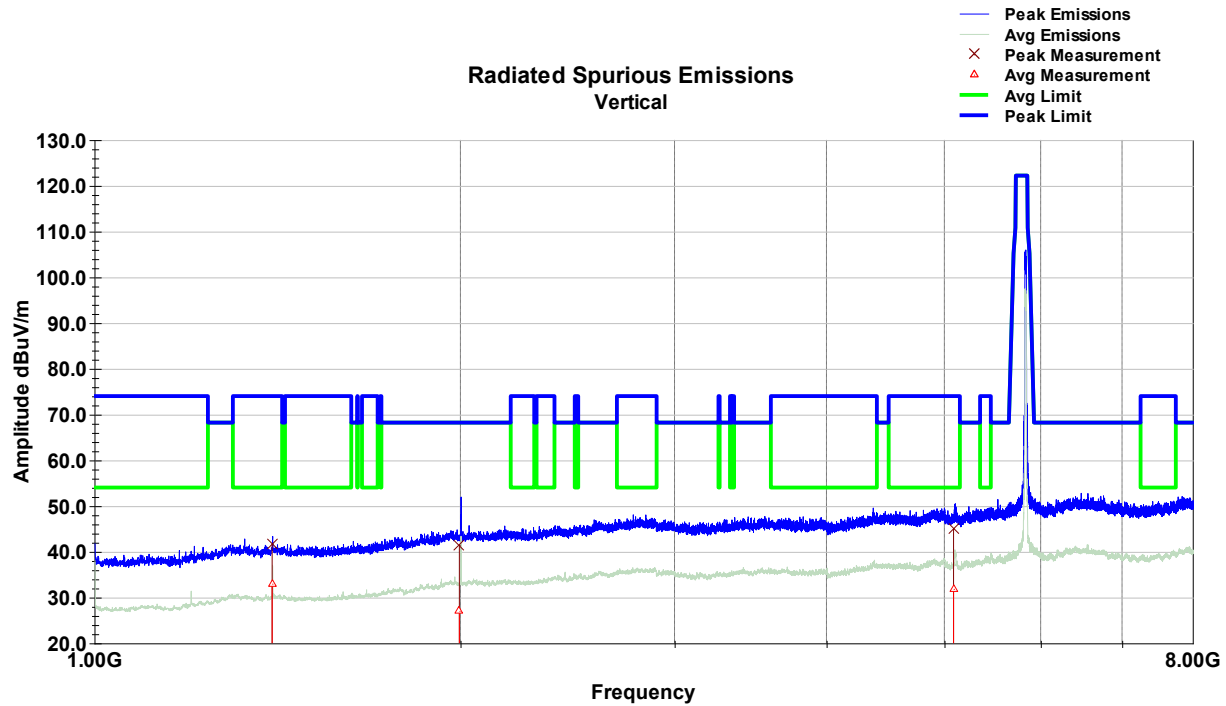


Horizontal Data – 8-18GHz – Mid Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12415.00	33.6	H	258.0	200.0	39.2	4.2	0.0	35.8	41.2	54.0	-12.8
16126.00	33.7	H	223.0	250.0	40.8	4.7	0.0	36.0	43.3	54.0	-10.7
17795.50	35.1	H	181.0	200.0	41.0	4.9	0.0	36.6	44.4	54.0	-9.6
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12415.00	46.3	H	258.0	200.0	39.2	4.2	0.0	35.8	53.9	74.0	-20.1
16126.00	46.2	H	223.0	250.0	40.8	4.7	0.0	36.0	55.7	74.0	-18.3
17795.50	46.7	H	181.0	200.0	41.0	4.9	0.0	36.6	56.1	74.0	-18.0
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – High Channel

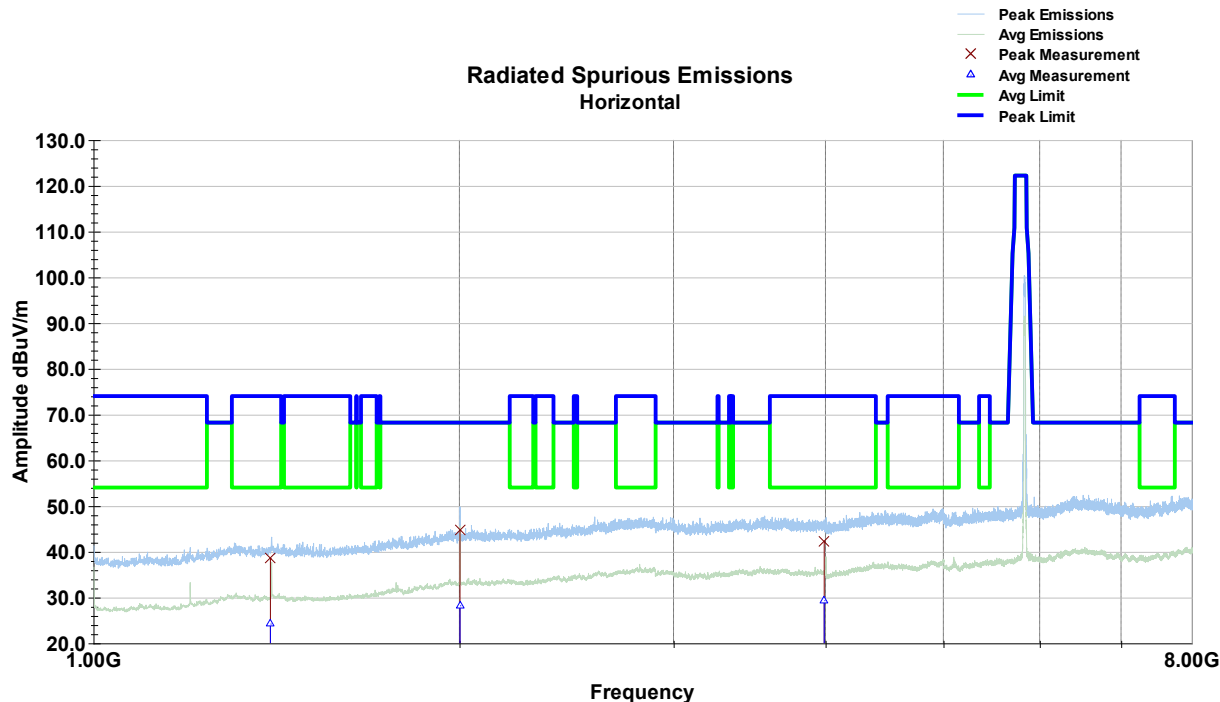


Vertical Data – 1-8GHz – High Channel

Frequency MHz	Raw Avg dBuV	Polarity V/H	Azimuth degrees	Height cm	AF dB/m	Loss dB	DCF dB	Amp dB	Final Avg dBuV/m	Limit dBuV/m	Margin dB
1400.35	36.8	V	158.0	148.0	29.0	1.5	0.0	34.2	33.0	54.0	-21.0
1996.20	28.4	V	133.0	150.0	31.4	2.0	0.0	34.7	27.1	68.2	-41.1
5087.77	28.4	V	353.0	209.0	34.2	3.3	0.0	34.0	31.9	54.0	-22.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1400.35	45.5	V	158.0	148.0	29.0	1.5	0.0	34.2	41.8	74.0	-32.2
1996.20	42.8	V	133.0	150.0	31.4	2.0	0.0	34.7	41.5	68.2	-26.7
5087.77	41.6	V	353.0	209.0	34.2	3.3	0.0	34.0	45.1	74.0	-28.9
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – High Channel

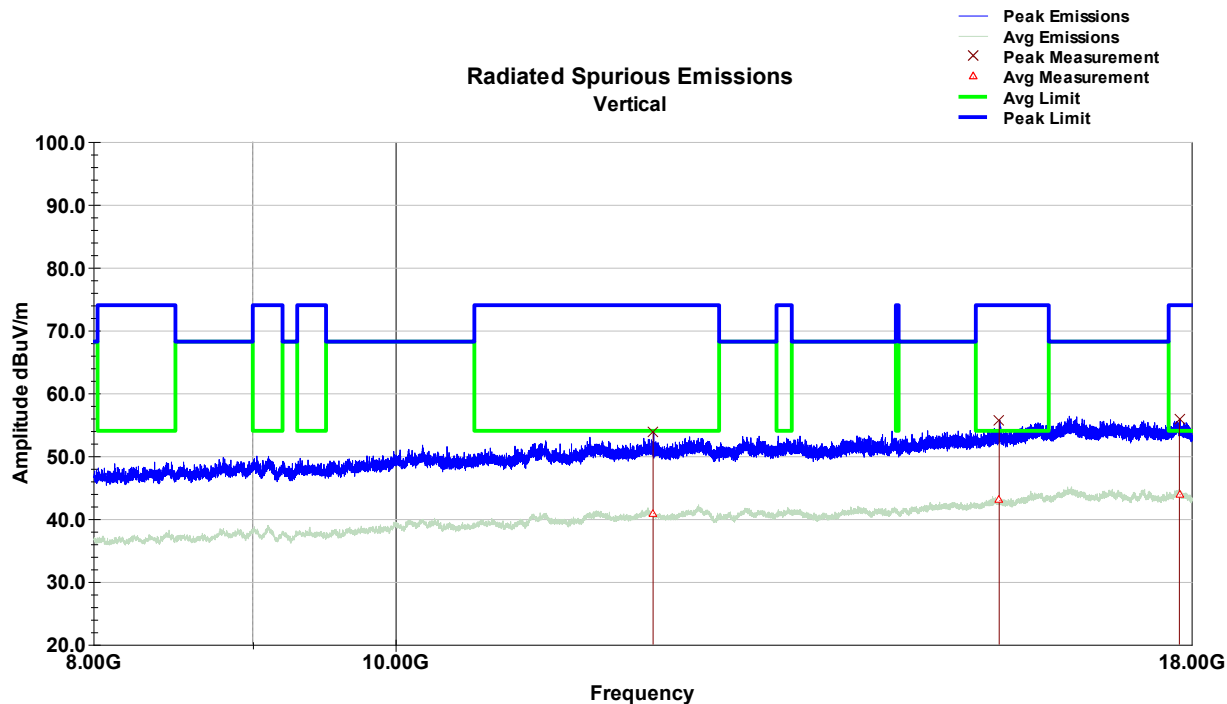


Horizontal Data – 1-8GHz – High Channel

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1398.25	28.0	H	291.0	159.0	29.0	1.5	0.0	34.3	24.3	54.0	-29.7
2002.36	29.6	H	133.0	203.0	31.4	2.0	0.0	34.7	28.3	68.2	-39.9
3990.30	27.9	H	269.0	176.0	33.3	2.7	0.0	34.4	29.4	54.0	-24.6
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
1398.25	42.3	H	291.0	159.0	29.0	1.5	0.0	34.3	38.6	74.0	-35.4
2002.36	46.1	H	133.0	203.0	31.4	2.0	0.0	34.7	44.7	68.2	-23.5
3990.30	40.8	H	269.0	176.0	33.3	2.7	0.0	34.4	42.3	74.0	-31.7
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – High Channel

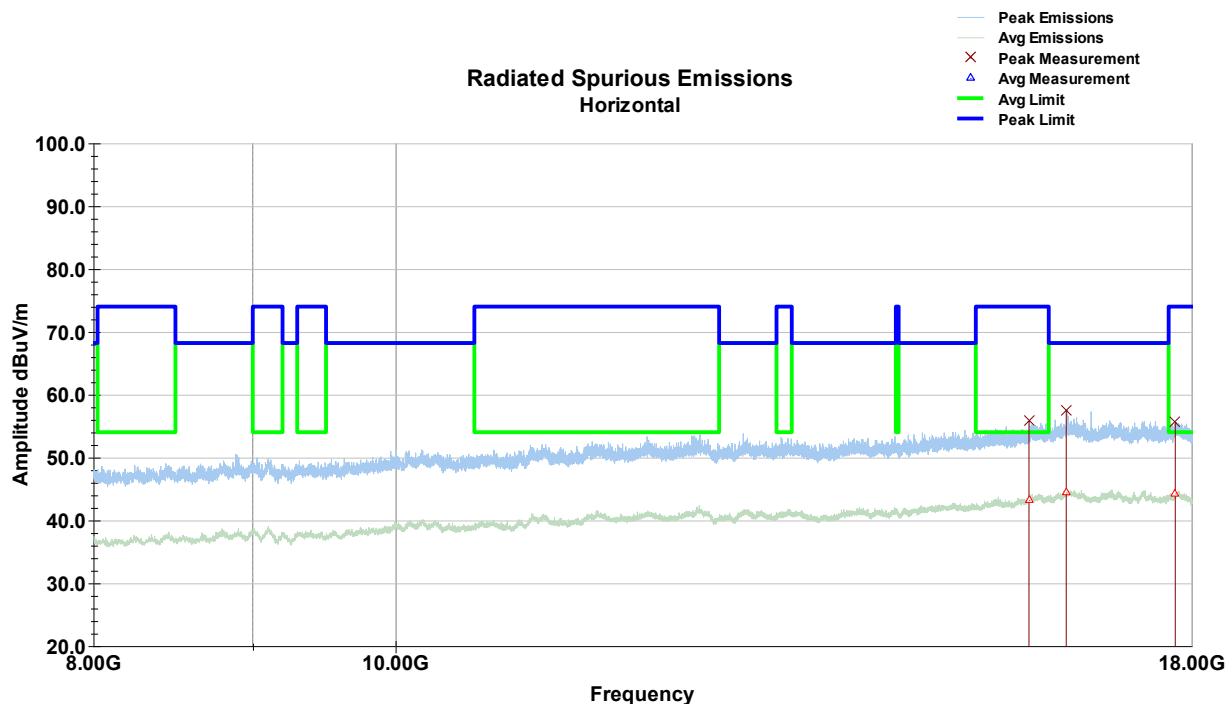


Vertical Data – 8-18GHz – High Channel

Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12095.50	33.6	V	175.0	200.0	39.2	4.1	0.0	35.9	40.9	54.0	-13.1
15618.50	34.0	V	342.0	250.0	40.6	4.7	0.0	36.2	43.0	54.0	-11.0
17840.00	34.6	V	76.0	150.0	41.0	5.0	0.0	36.7	43.9	54.0	-10.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
12095.50	46.5	V	175.0	200.0	39.2	4.1	0.0	35.9	53.9	74.0	-20.2
15618.50	46.7	V	342.0	250.0	40.6	4.7	0.0	36.2	55.7	74.0	-18.3
17840.00	46.6	V	76.0	150.0	41.0	5.0	0.0	36.7	55.9	74.0	-18.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – High Channel



Horizontal Data – 8-18GHz – High Channel

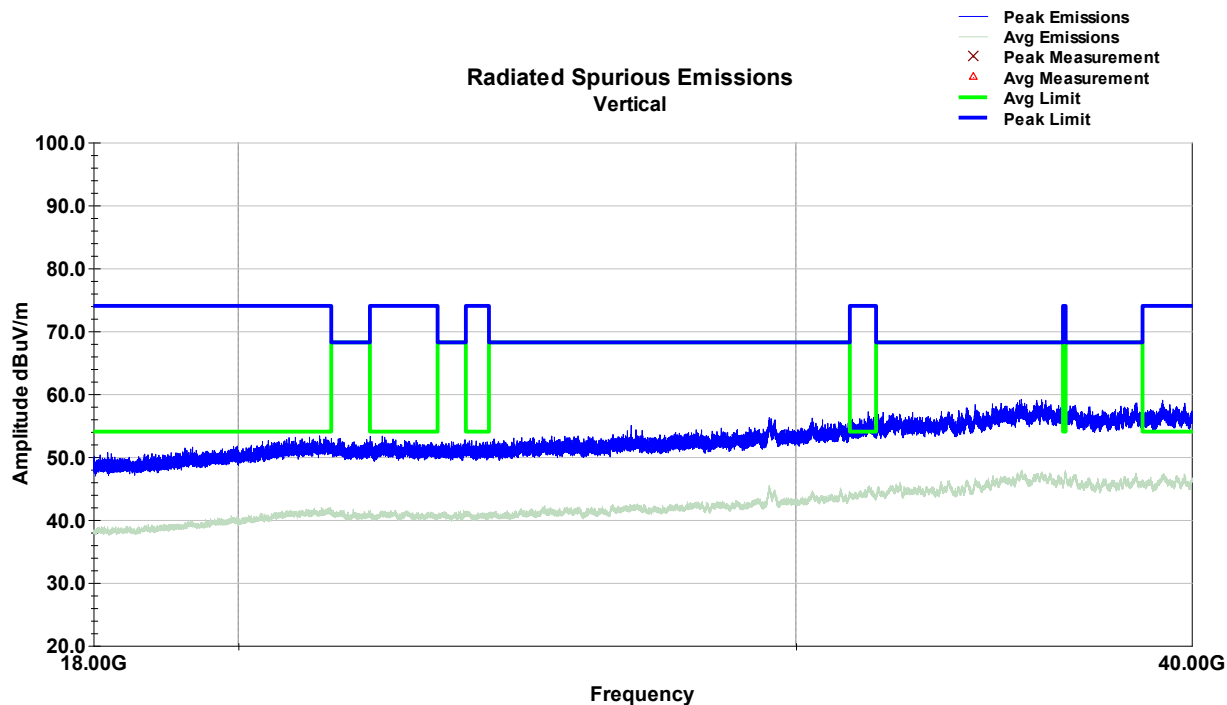
Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
15965.50	33.5	H	299.0	250.0	40.9	4.7	0.0	35.9	43.2	54.0	-10.8
16410.00	34.5	H	241.0	250.0	41.1	4.8	0.0	36.0	44.4	68.2	-23.8
17786.00	35.0	H	16.0	150.0	41.0	4.9	0.0	36.6	44.3	54.0	-9.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

Frequency (MHz)	Raw Pk (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Pk (dBuV/m)	Limit (dBuV/m)	Margin (dB)
15965.50	46.1	H	299.0	250.0	40.9	4.8	0.0	35.9	55.8	74.0	-18.2
16410.00	47.7	H	241.0	250.0	41.1	4.8	0.0	36.0	57.5	68.2	-10.7
17786.00	46.4	H	16.0	150.0	41.0	4.9	0.0	36.6	55.6	74.0	-18.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

3.14.4 18-40 GHz

All channels had similar plots in the 18-40GHz frequency range.

Vertical Plot – 18-40GHz – Mid Channel



Horizontal Plot – 18-40GHz – Mid Channel

