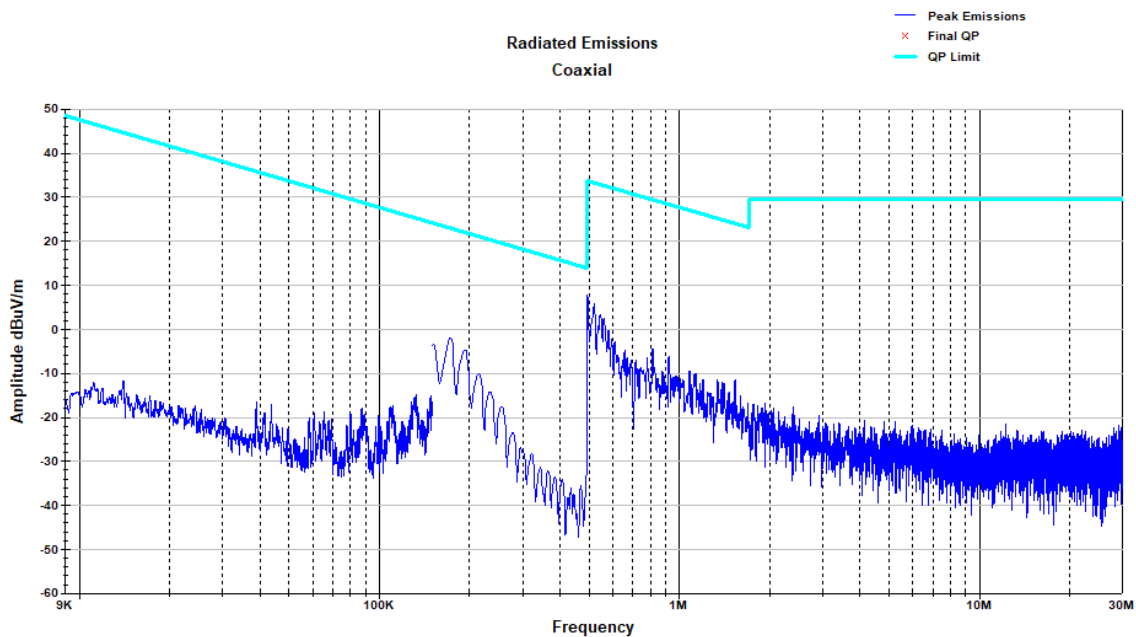


3.7 Test Data – U-NII Band 1 – 802.11ac

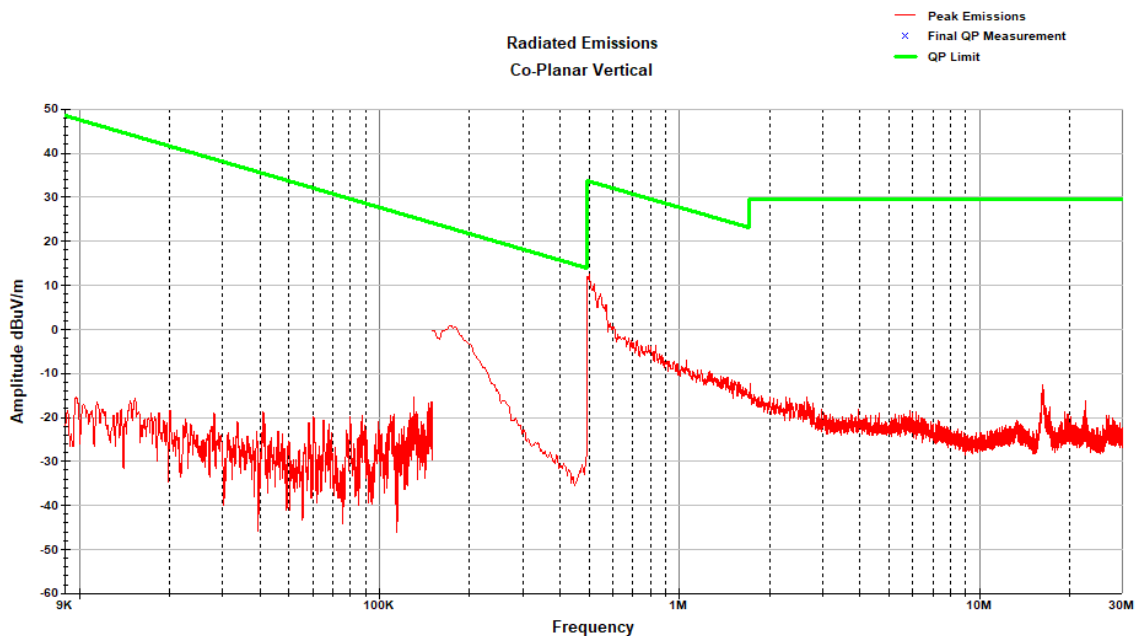
3.7.1 9kHz – 30MHz

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

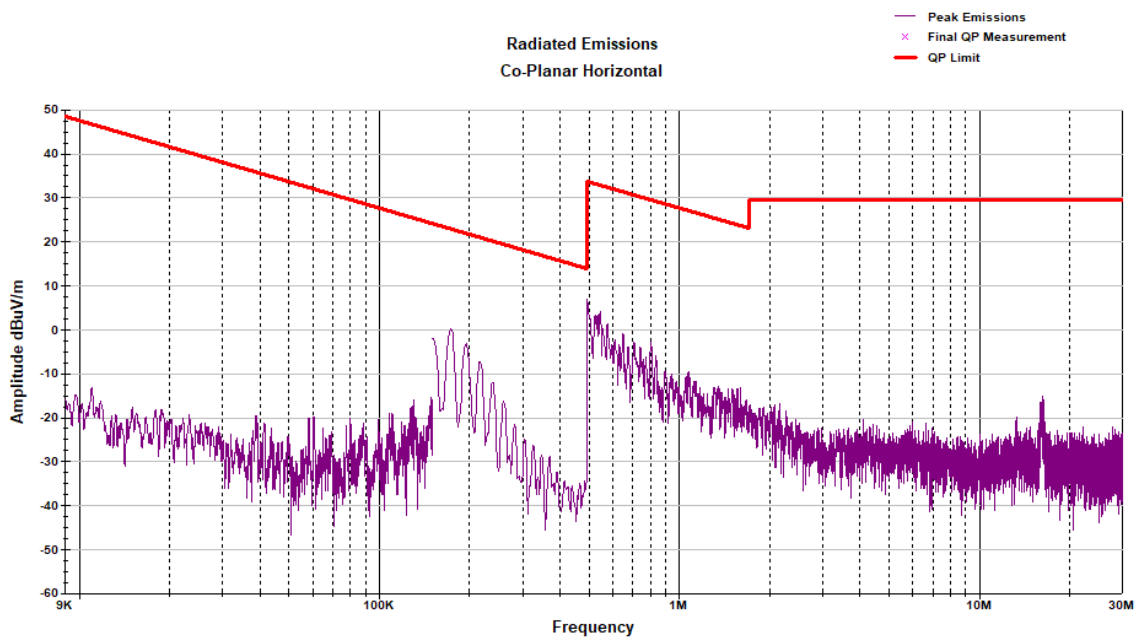
Coaxial Plot – 9 kHz-30MHz – Mid Channel



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



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

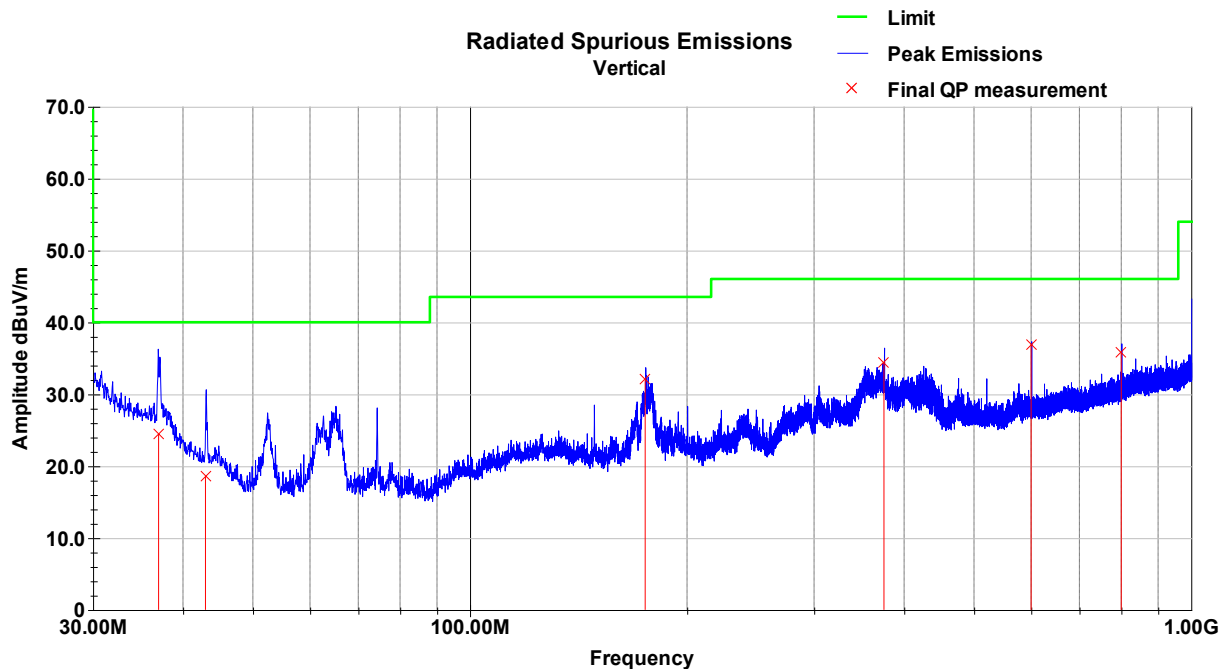


No emissions within 20dB of the limit

3.7.2 30-1000 MHz

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

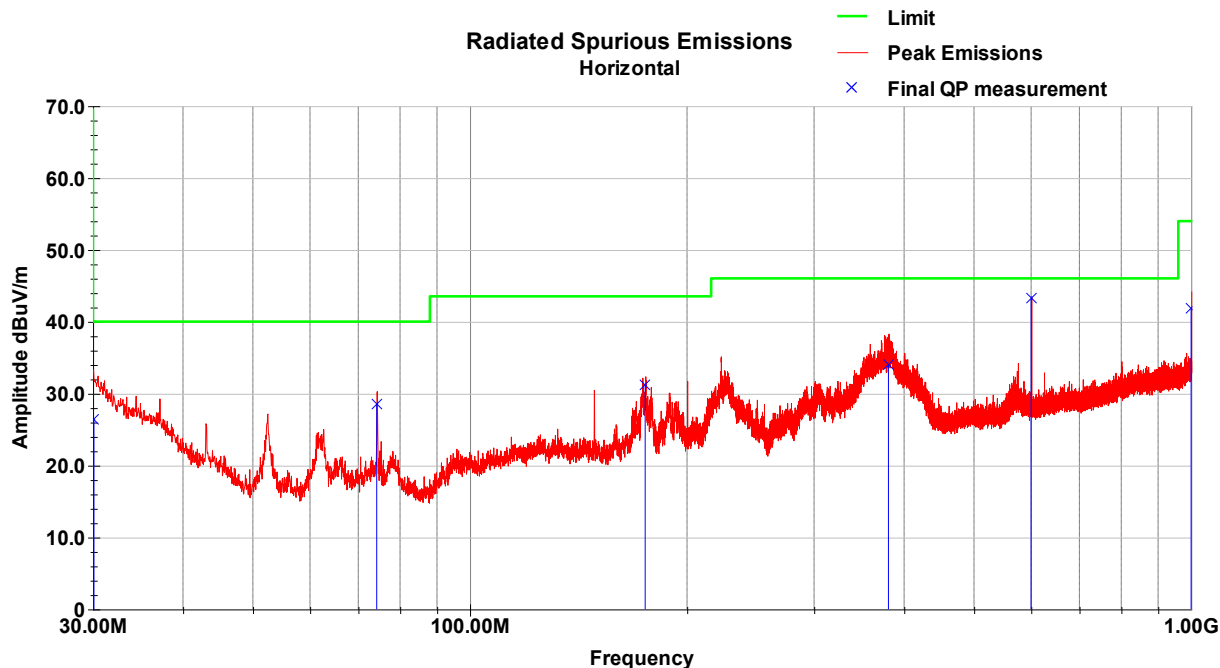
Vertical Plot – 30-1000MHz – High Channel



Vertical Data – 30-1000MHz – High 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
37.01	34.1	V	272.0	167.0	20.7	0.3	30.6	24.5	100.0	-15.5
42.98	32.7	V	272.0	100.0	16.2	0.3	30.7	18.6	100.0	-21.4
175.00	45.7	V	53.0	100.0	15.8	0.9	30.4	32.0	100.0	-11.5
375.01	43.2	V	241.0	100.0	19.7	1.6	30.1	34.4	100.0	-11.6
600.00	40.9	V	308.0	100.0	23.8	1.9	29.7	37.0	100.0	-9.1
800.02	36.8	V	360.0	119.0	26.2	1.9	29.2	35.8	100.0	-10.3
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

Horizontal Plot – 30-1000MHz – High Channel

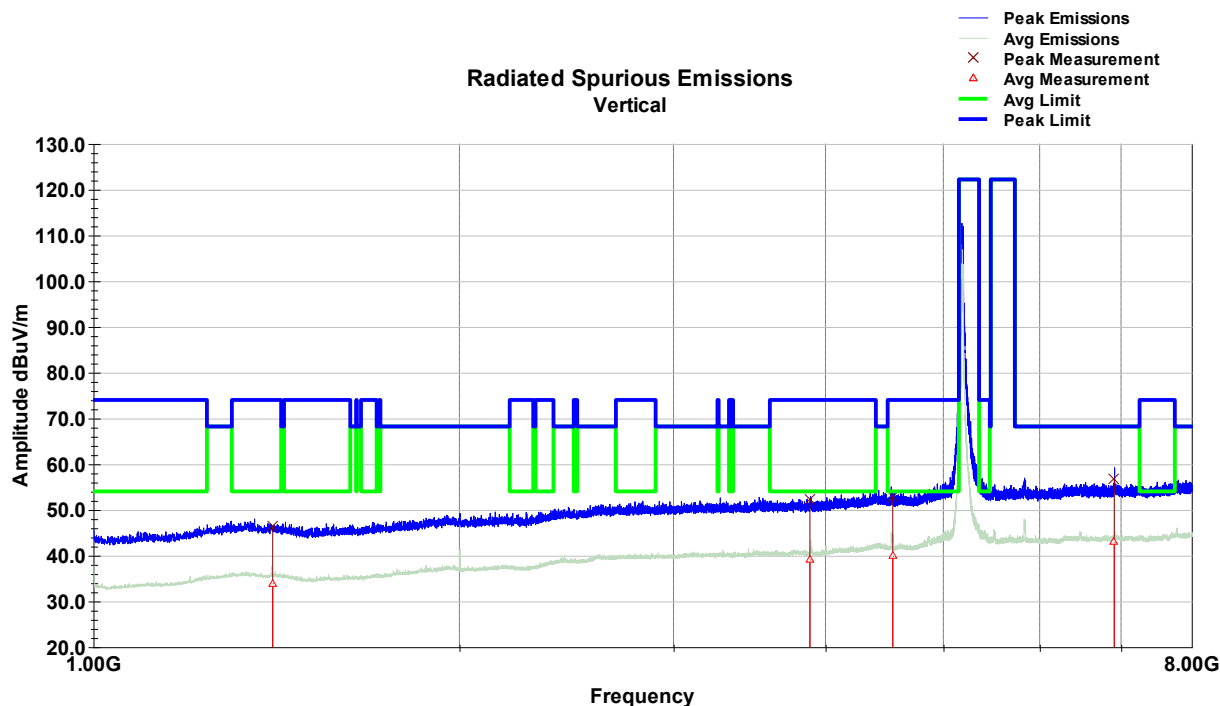


Horizontal Data – 30-1000MHz – High Channel

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
30.10	30.6	H	18.0	325.0	26.1	0.3	30.6	26.4	100.0	-13.6
74.24	46.4	H	-1.0	400.0	12.3	0.6	30.7	28.6	40.0	-11.4
175.01	44.9	H	60.0	100.0	15.8	0.9	30.4	31.3	100.0	-12.3
380.48	42.5	H	176.0	100.0	19.9	1.6	30.1	34.0	100.0	-12.0
600.01	47.1	H	234.0	100.0	23.8	1.9	29.7	43.2	100.0	-2.8
1000.00	40.2	H	217.0	100.0	28.1	2.2	28.7	41.8	54.0	-12.2
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

3.7.3 1-18 GHz

Vertical Plot – 1-8GHz – Low Channel

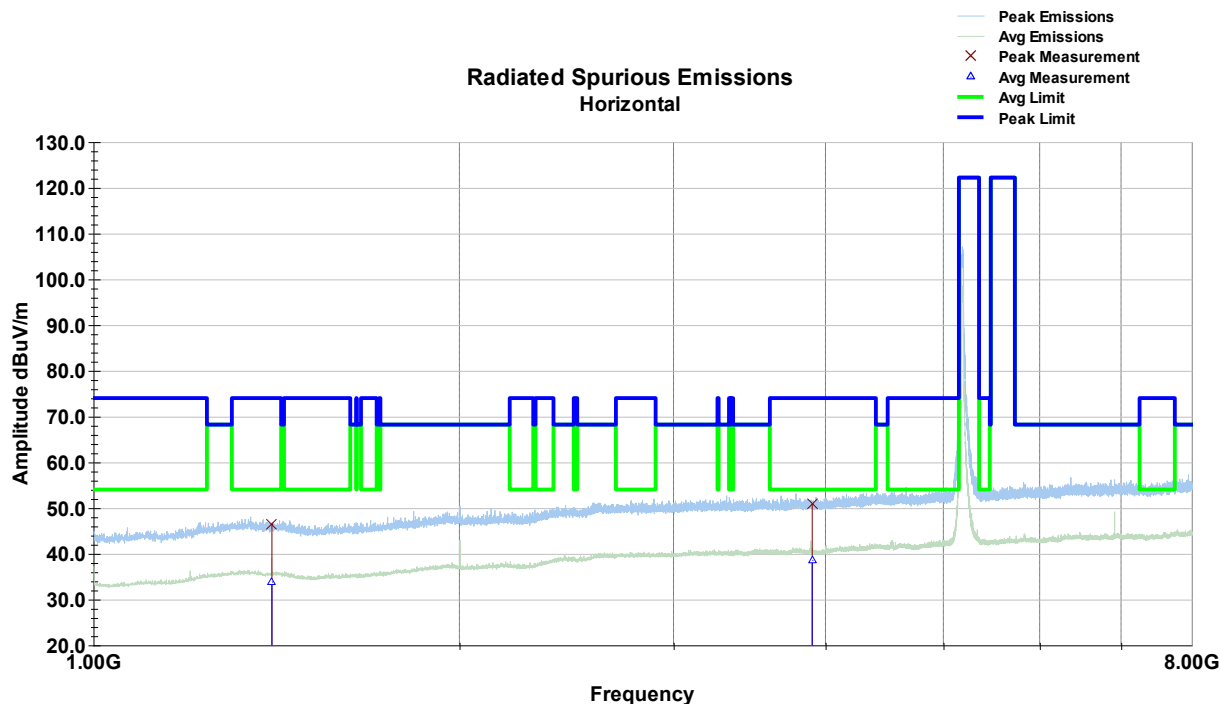


Vertical Data – 1-8GHz – Low Channel

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
1404.35	36.2	V	175.0	158.0	29.0	11.7	0.0	42.9	34.0	54.0	-20.0
3883.64	35.6	V	22.0	244.0	33.2	12.6	0.0	42.3	39.2	54.0	-14.8
4543.41	35.4	V	163.0	250.0	33.9	12.9	0.0	42.2	39.9	54.0	-14.1
6910.66	35.7	V	54.0	123.0	35.7	13.7	0.0	42.1	43.0	68.2	-25.2
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)
1404.35	48.6	V	175.0	158.0	29.0	11.7	0.0	42.9	46.4	74.0	-27.6
3883.64	48.8	V	22.0	244.0	33.2	12.6	0.0	42.3	52.4	74.0	-21.6
4543.41	48.2	V	163.0	250.0	33.9	12.9	0.0	42.2	52.8	74.0	-21.2
6910.66	49.4	V	54.0	123.0	35.7	13.7	0.0	42.1	56.6	68.2	-11.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Low Channel

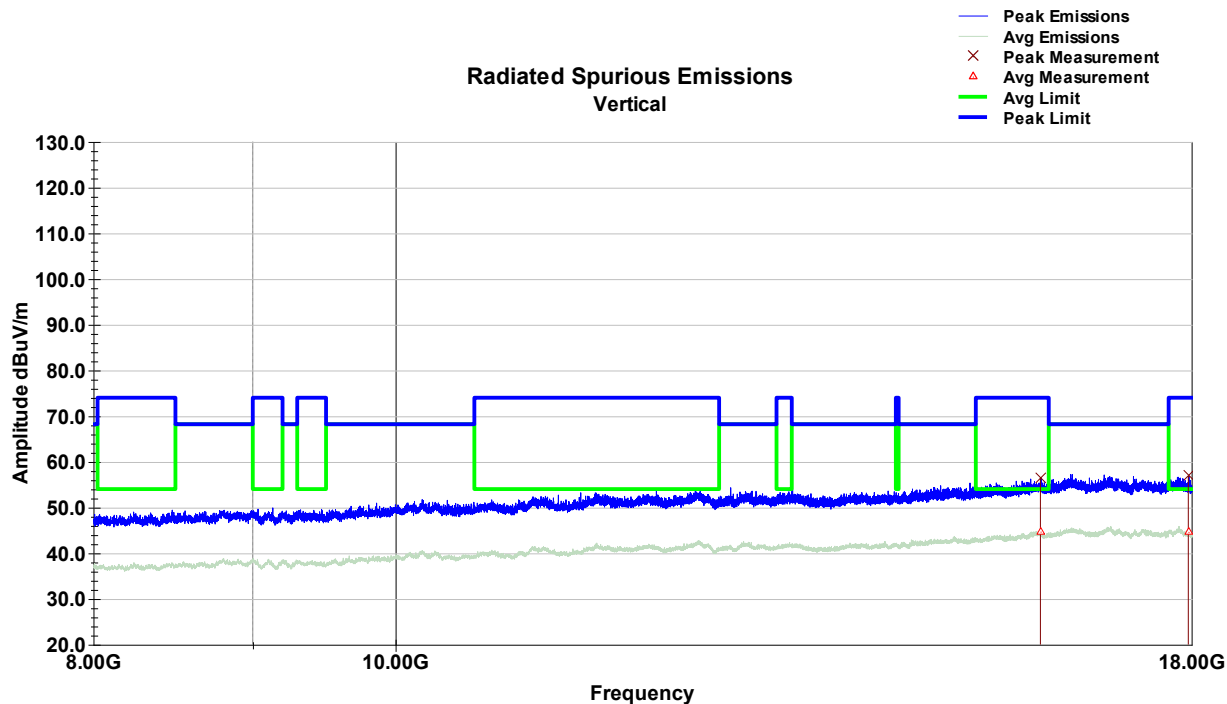


Horizontal Data – 1-8GHz – Low Channel

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)
1402.48	36.1	H	74.0	120.0	29.0	11.7	0.0	42.9	33.9	54.0	-20.1
3901.01	35.1	H	359.0	117.0	33.2	12.6	0.0	42.3	38.7	54.0	-15.3
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
1402.48	48.7	H	74.0	120.0	29.0	11.7	0.0	42.9	46.5	74.0	-27.5
3901.01	47.4	H	359.0	117.0	33.2	12.6	0.0	42.3	51.0	74.0	-23.0
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Low Channel

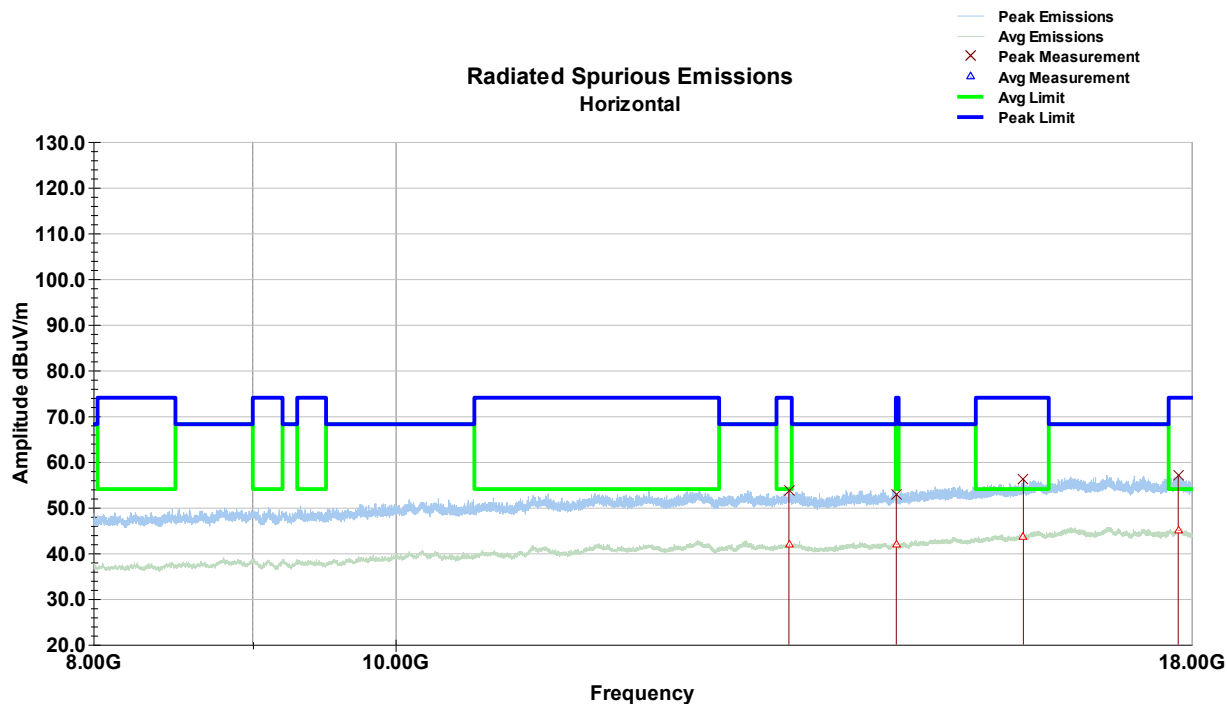


Vertical Data – 8-18GHz – Low Channel

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)
16100.00	34.4	V	173.0	200.0	40.9	5.4	0.0	35.9	44.7	54.0	-9.3
17958.00	34.7	V	230.0	150.0	41.1	5.7	0.0	36.8	44.7	54.0	-9.3
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)
16100.00	46.3	V	173.0	200.0	40.9	5.4	0.0	35.9	56.6	74.0	-17.4
17958.00	46.9	V	230.0	150.0	41.1	5.7	0.0	36.8	56.9	74.0	-17.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Low Channel

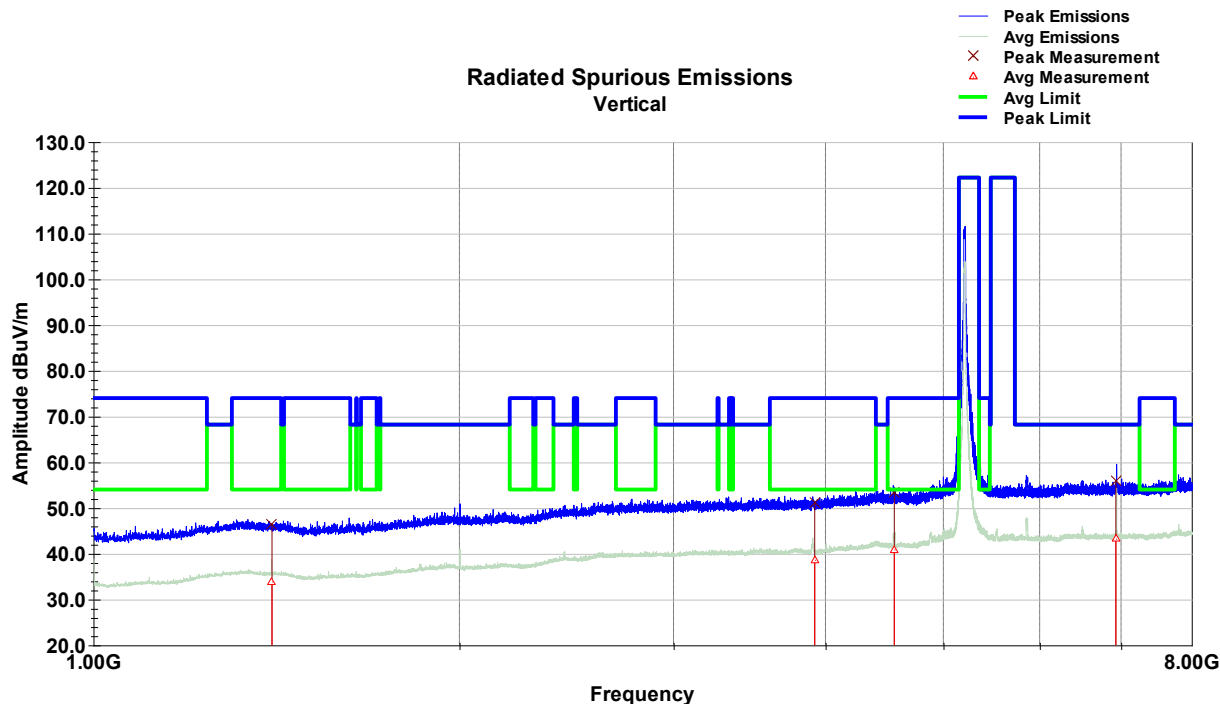


Horizontal Data – 8-18GHz – Low Channel

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)
13371.50	33.6	H	201.0	250.0	39.3	5.0	0.0	36.0	41.9	54.0	-12.1
14475.50	33.7	H	43.0	200.0	39.7	5.0	0.0	36.3	42.1	54.0	-11.9
15899.50	33.3	H	357.0	100.0	40.8	5.5	0.0	35.9	43.7	54.0	-10.3
17825.00	35.0	H	354.0	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)
13371.50	45.6	H	201.0	250.0	39.3	5.0	0.0	36.0	53.8	74.0	-20.2
14475.50	44.4	H	43.0	200.0	39.7	5.0	0.0	36.4	52.8	74.0	-21.2
15899.50	45.7	H	357.0	100.0	40.8	5.5	0.0	35.9	56.1	74.0	-17.9
17825.00	47.0	H	354.0	150.0	41.0	5.7	0.0	36.6	57.1	74.0	-16.9
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – Mid Channel

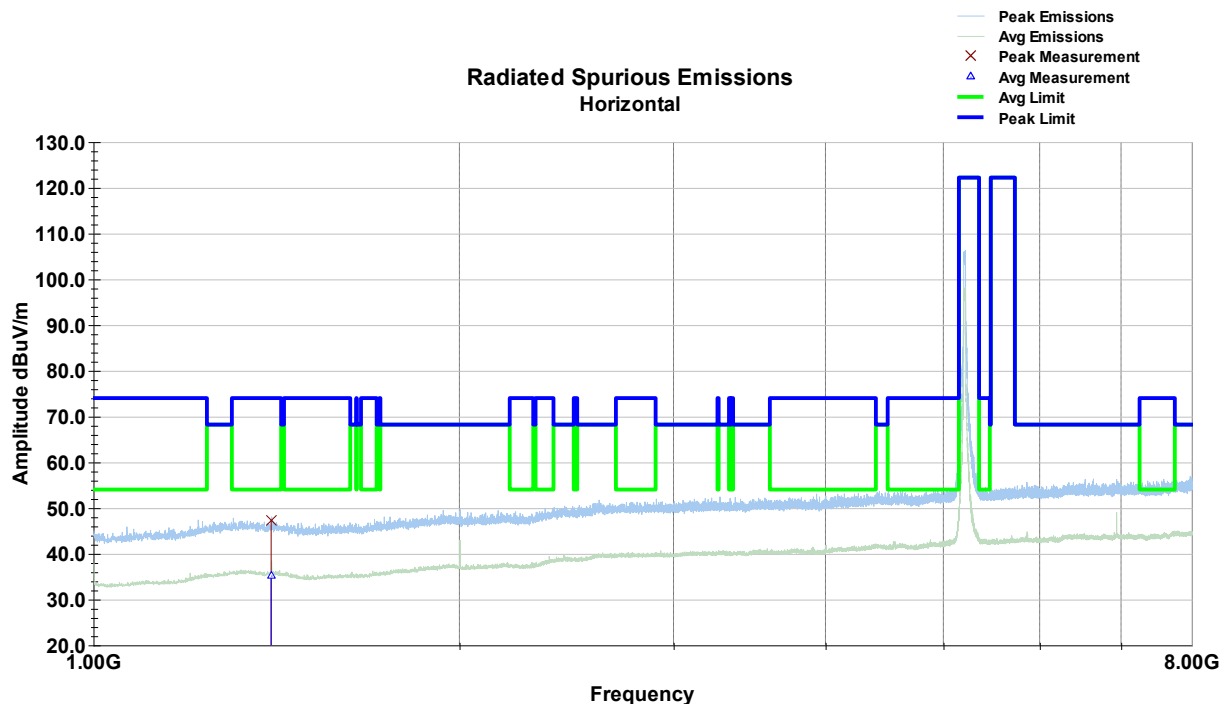


Vertical Data – 1-8GHz – Mid Channel

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
1402.73	36.1	V	358.0	114.0	29.0	11.7	0.0	42.9	33.9	54.0	-20.1
3918.95	35.2	V	202.0	100.0	33.2	12.6	0.0	42.3	38.7	54.0	-15.3
4557.02	36.4	V	19.0	239.0	33.9	12.9	0.0	42.2	40.9	54.0	-13.1
6931.67	35.9	V	293.0	249.0	35.7	13.7	0.0	42.1	43.3	68.2	-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)
1402.73	48.7	V	358.0	114.0	29.0	11.7	0.0	42.9	46.5	74.0	-27.5
3918.95	47.6	V	202.0	100.0	33.2	12.6	0.0	42.3	51.1	74.0	-22.9
4557.02	48.9	V	19.0	239.0	33.9	12.9	0.0	42.2	53.5	74.0	-20.5
6931.67	48.6	V	293.0	249.0	35.7	13.7	0.0	42.1	56.0	68.2	-12.2
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Mid Channel

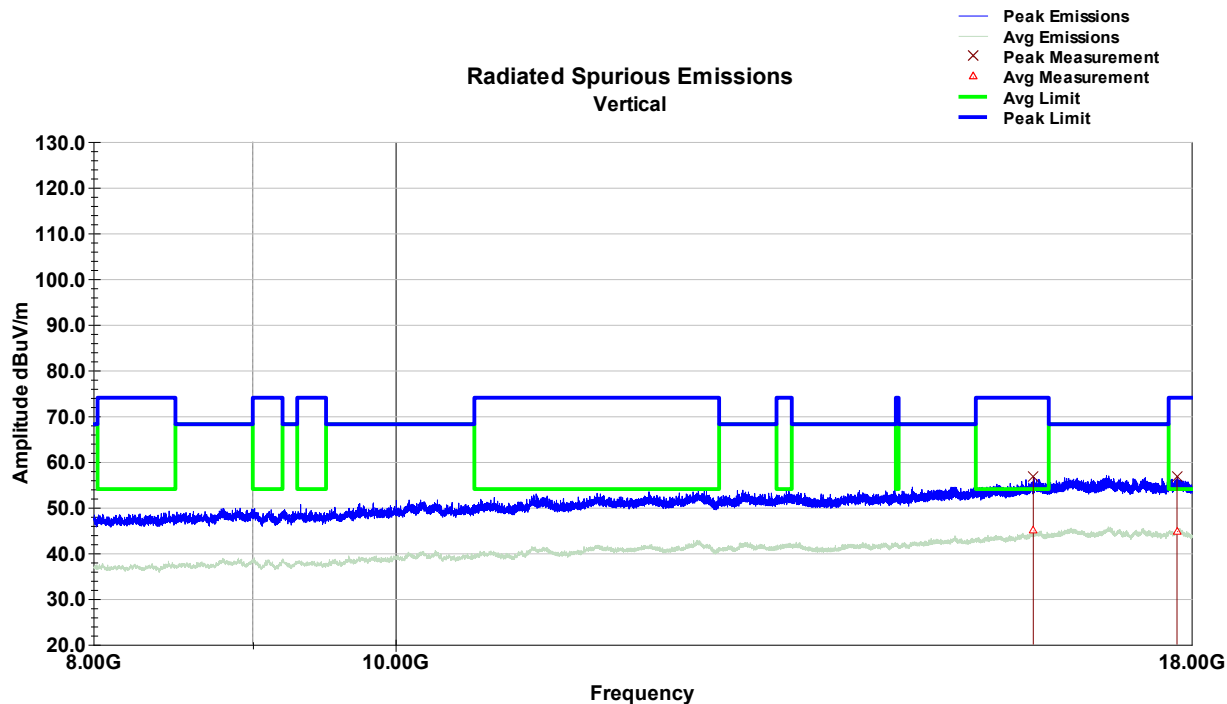


Horizontal Data – 1-8GHz – Mid Channel

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	37.4	H	0.0	149.0	29.0	11.7	0.0	42.9	35.2	54.0	-18.8
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
1400.36	49.6	H	0.0	149.0	29.0	11.7	0.0	42.9	47.4	74.0	-26.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Mid Channel

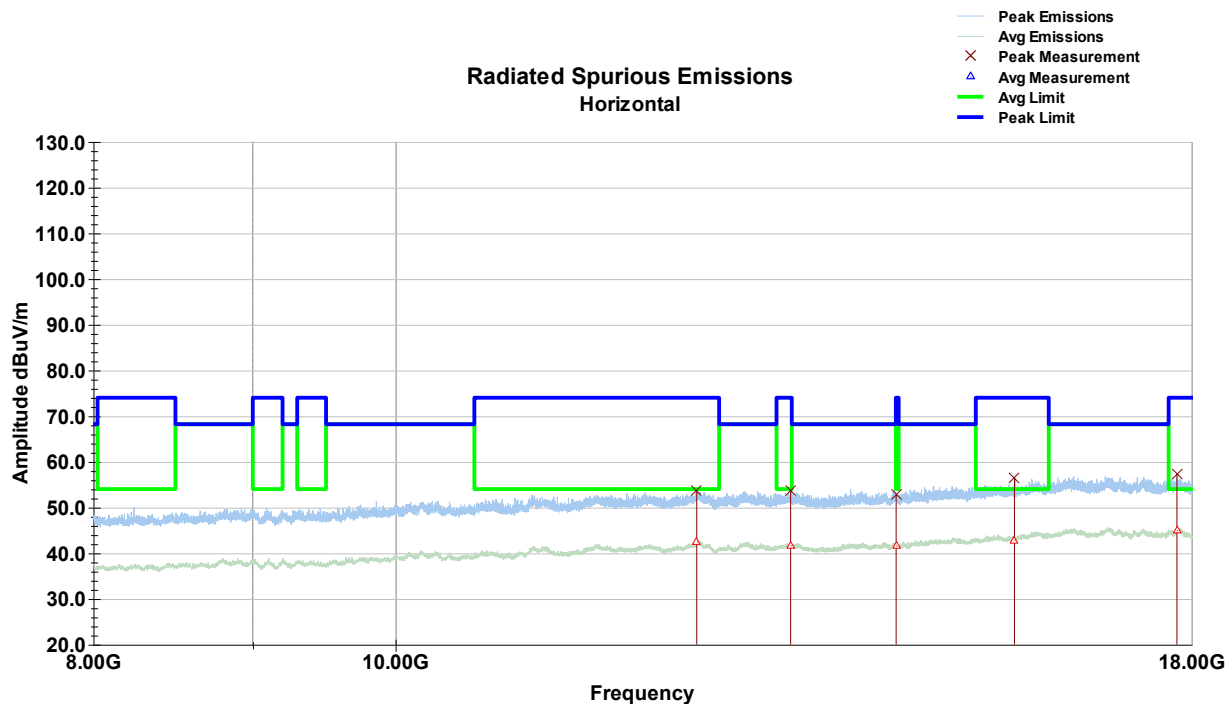


Vertical Data – 8-18GHz – Mid Channel

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)
16016.00	34.7	V	360.0	150.0	40.9	5.4	0.0	35.9	45.0	54.0	-9.0
17809.50	34.8	V	165.0	250.0	41.0	5.7	0.0	36.6	44.9	54.0	-9.2
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)
16016.00	46.4	V	360.0	150.0	40.9	5.3	0.0	35.9	56.7	74.0	-17.3
17809.50	46.8	V	165.0	250.0	41.0	5.7	0.0	36.6	56.9	74.0	-17.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Mid Channel

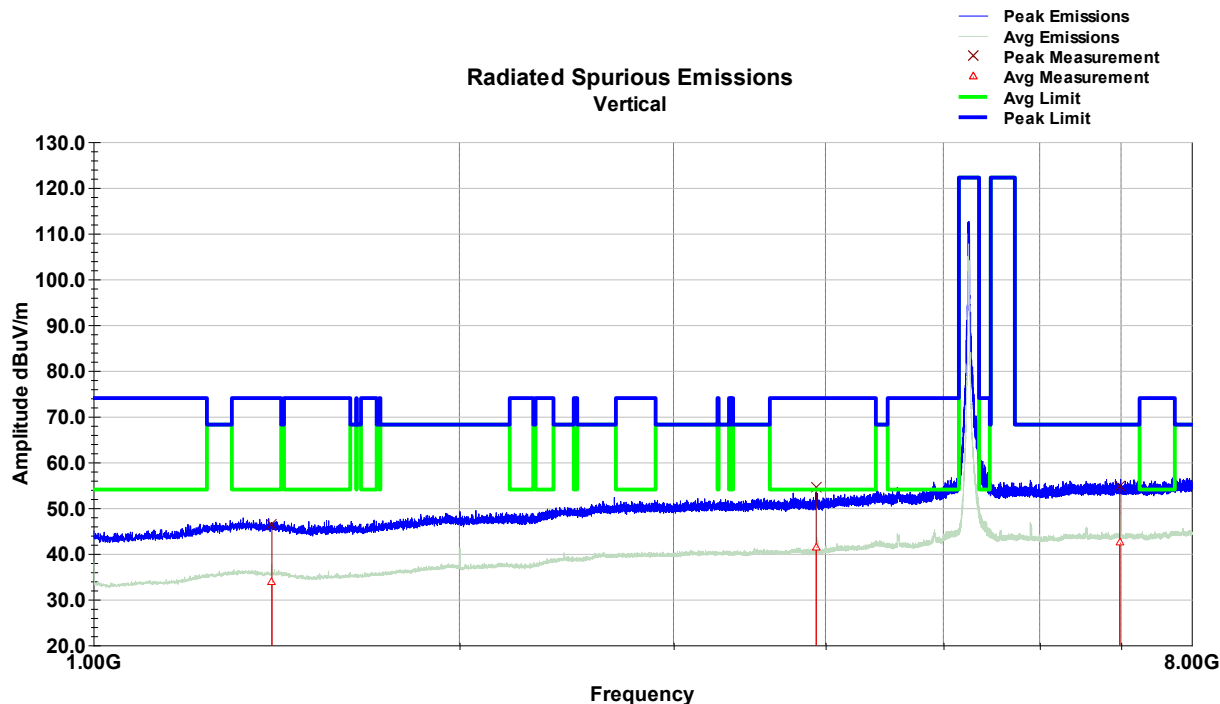


Horizontal Data – 8-18GHz – Mid Channel

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)
12491.50	34.1	H	275.0	200.0	39.2	4.9	0.0	35.6	42.6	54.0	-11.4
13388.00	33.7	H	150.0	200.0	39.2	5.0	0.0	36.1	41.8	54.0	-12.2
14473.50	33.3	H	262.0	200.0	39.7	5.0	0.0	36.3	41.7	54.0	-12.3
15795.50	33.0	H	63.0	200.0	40.6	5.3	0.0	36.0	42.9	54.0	-11.1
17807.50	35.0	H	51.0	250.0	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)
12491.50	45.2	H	275.0	200.0	39.2	4.9	0.0	35.6	53.7	74.0	-20.3
13388.00	45.5	H	150.0	200.0	39.3	5.0	0.0	36.1	53.6	74.0	-20.4
14473.50	44.3	H	262.0	200.0	39.7	5.0	0.0	36.3	52.7	74.0	-21.3
15795.50	46.4	H	63.0	200.0	40.6	5.3	0.0	36.1	56.4	74.0	-17.7
17807.50	47.3	H	51.0	250.0	41.0	5.7	0.0	36.6	57.4	74.0	-16.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – High Channel

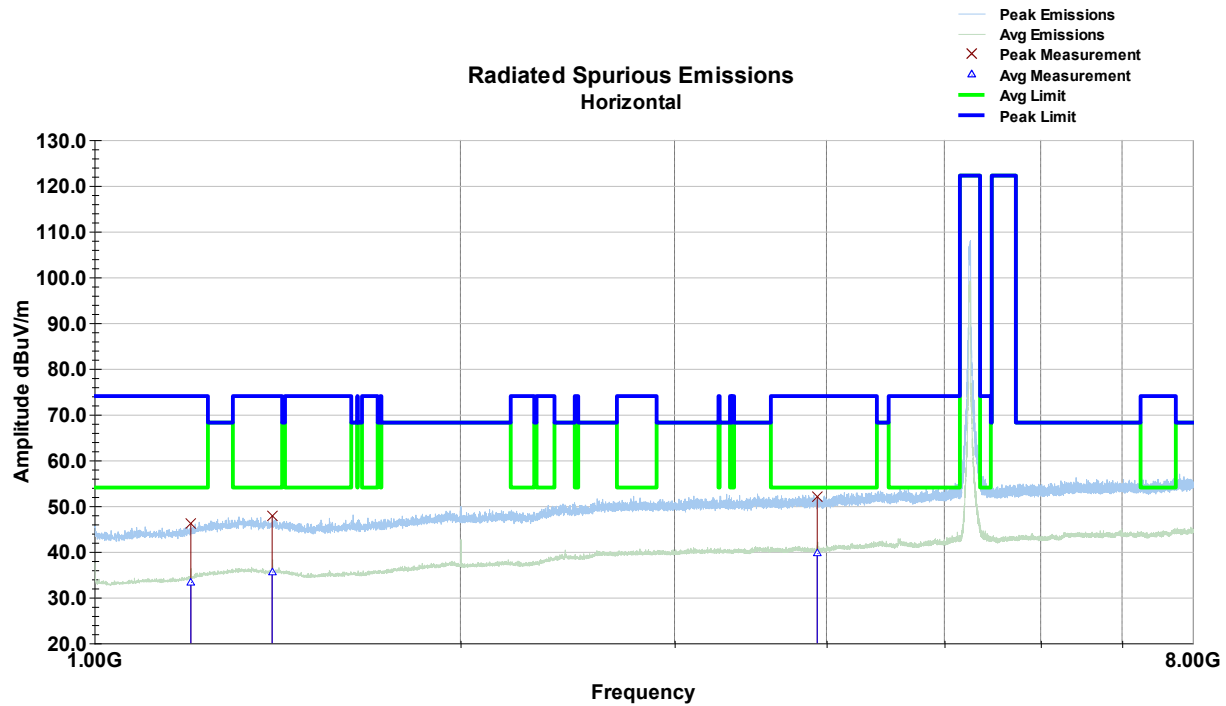


Vertical Data – 1-8GHz – High Channel

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
1402.47	36.2	V	295.0	143.0	29.0	11.7	0.0	42.9	34.0	54.0	-20.0
3930.42	38.0	V	274.0	242.0	33.2	12.7	0.0	42.3	41.5	54.0	-12.5
6984.04	35.1	V	143.0	136.0	35.8	13.7	0.0	42.1	42.4	68.2	-25.8
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)
1402.47	48.6	V	295.0	143.0	29.0	11.7	0.0	42.9	46.4	74.0	-27.6
3930.42	50.9	V	274.0	242.0	33.2	12.7	0.0	42.3	54.4	74.0	-19.6
6984.04	47.4	V	143.0	136.0	35.8	13.7	0.0	42.1	54.7	68.2	-13.5
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – High Channel

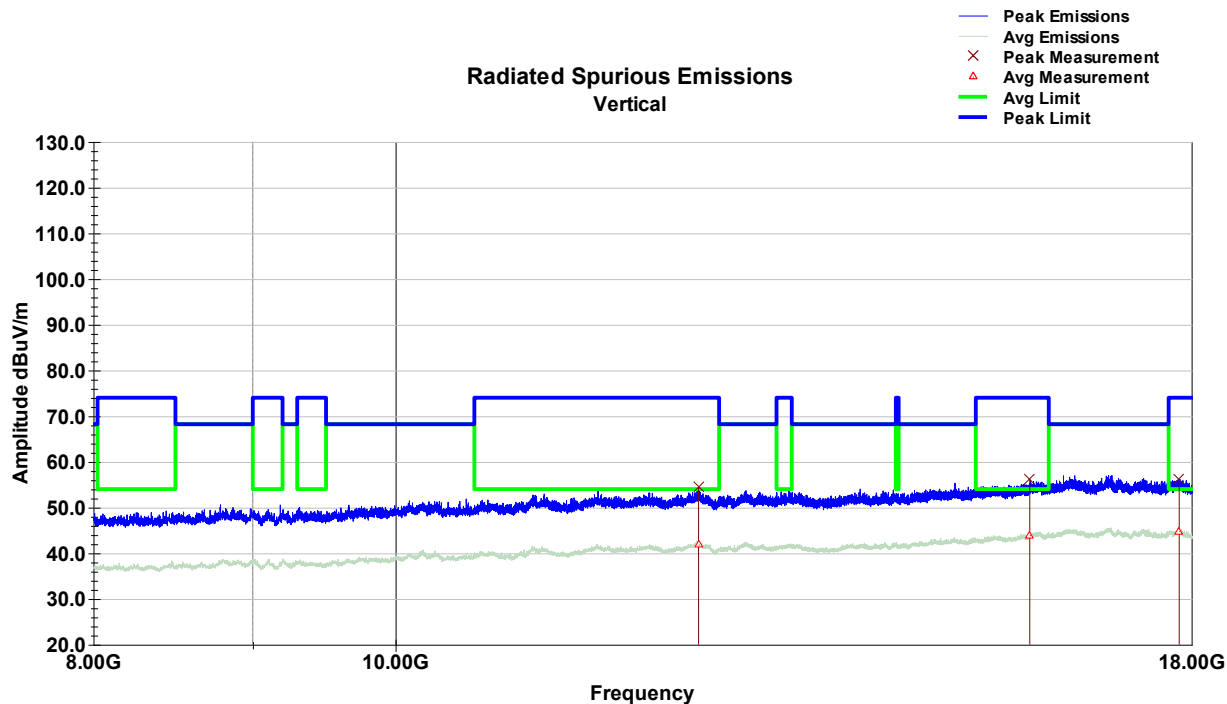


Horizontal Data – 1-8GHz – High Channel

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	37.0	H	131.0	118.0	28.0	11.3	0.0	42.9	33.4	54.0	-20.6
1400.36	37.9	H	215.0	117.0	29.0	11.7	0.0	42.9	35.7	54.0	-18.3
3930.55	36.2	H	159.0	184.0	33.2	12.7	0.0	42.3	39.8	54.0	-14.2
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	49.8	H	131.0	118.0	28.0	11.3	0.0	42.9	46.2	74.0	-27.8
1400.36	50.1	H	215.0	117.0	29.0	11.7	0.0	42.9	47.9	74.0	-26.1
3930.55	48.6	H	159.0	184.0	33.2	12.7	0.0	42.3	52.1	74.0	-21.9
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – High Channel

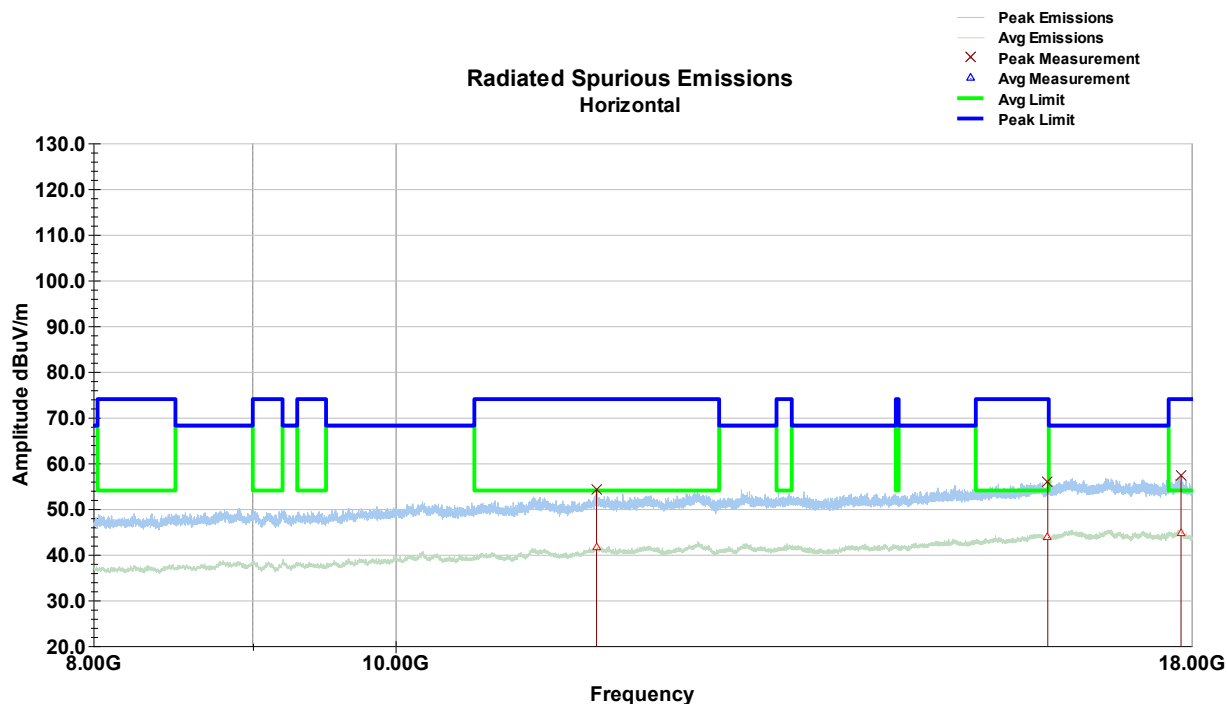


Vertical Data – 8-18GHz – High Channel

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)
12508.50	33.4	V	11.0	150.0	39.2	4.9	0.0	35.6	41.9	54.0	-12.1
15973.50	33.7	V	286.0	150.0	40.9	5.3	0.0	35.9	44.0	54.0	-10.1
17837.50	34.8	V	225.0	250.0	41.0	5.8	0.0	36.7	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)
12508.50	45.9	V	11.0	150.0	39.2	4.9	0.0	35.6	54.4	74.0	-19.6
15973.50	45.8	V	286.0	150.0	40.9	5.3	0.0	35.9	56.1	74.0	-17.9
17837.50	46.2	V	225.0	250.0	41.0	5.8	0.0	36.7	56.3	74.0	-17.8
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – High Channel



Horizontal Data – 8-18GHz – High Channel

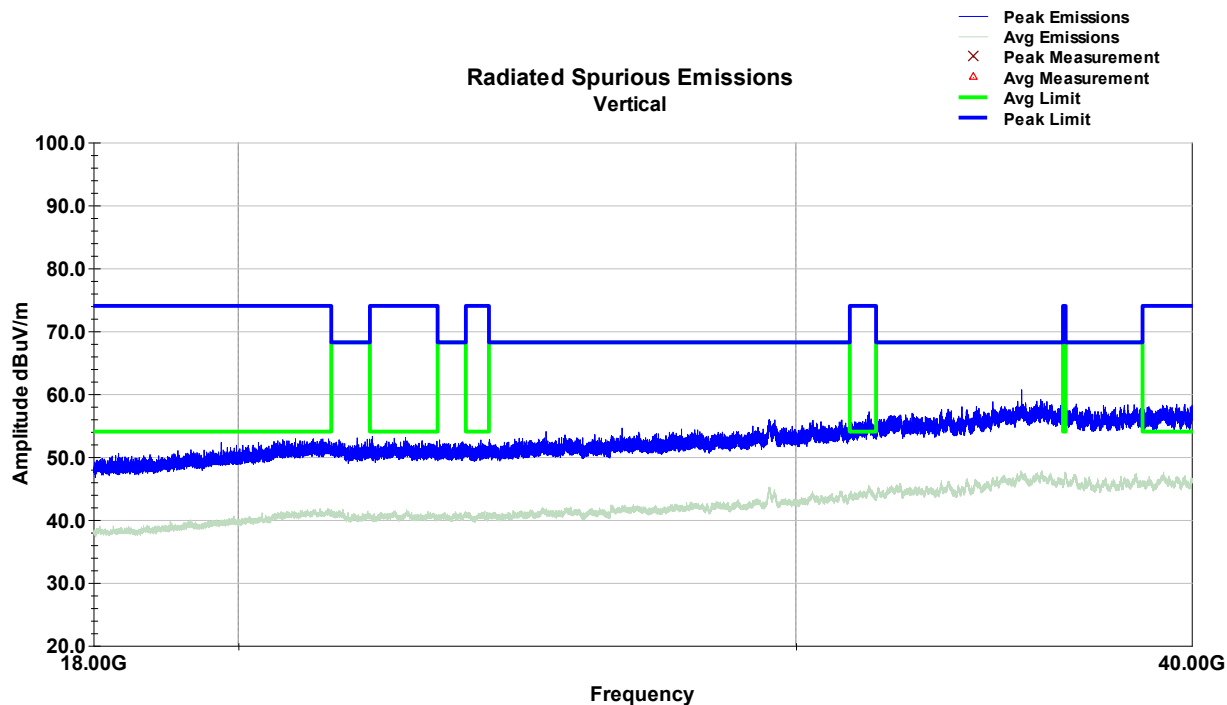
Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
11601.00	33.5	H	202.0	150.0	38.9	4.6	0.0	35.5	41.6	54.0	-12.4
16188.50	33.8	H	282.0	200.0	40.8	5.2	0.0	36.0	43.8	54.0	-10.2
17862.00	34.8	H	164.0	150.0	41.0	5.8	0.0	36.7	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)
11601.00	46.1	H	202.0	150.0	38.9	4.6	0.0	35.5	54.1	74.0	-19.9
16188.50	45.8	H	282.0	200.0	40.8	5.2	0.0	36.0	55.8	74.0	-18.2
17862.00	47.2	H	164.0	150.0	41.0	5.8	0.0	36.7	57.2	74.0	-16.8
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

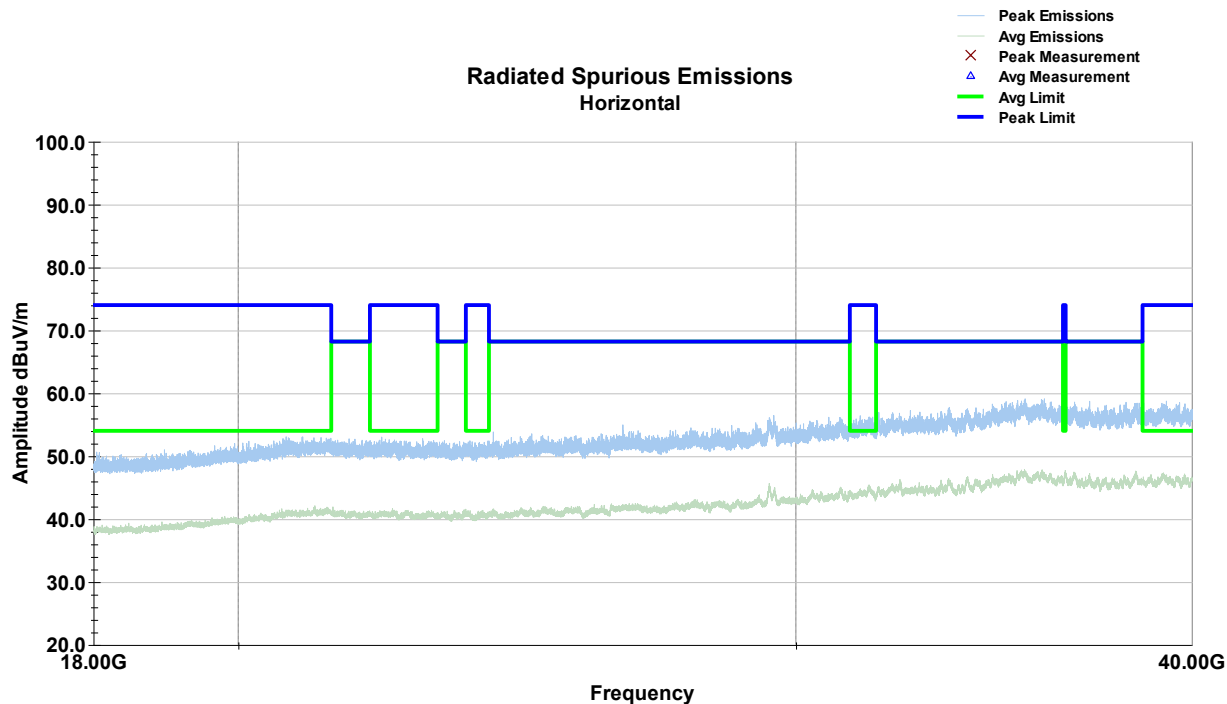
3.7.4 18-40 GHz

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

Vertical Plot – 18-40GHz – Mid Channel



Horizontal Plot – 18-40GHz – Mid Channel

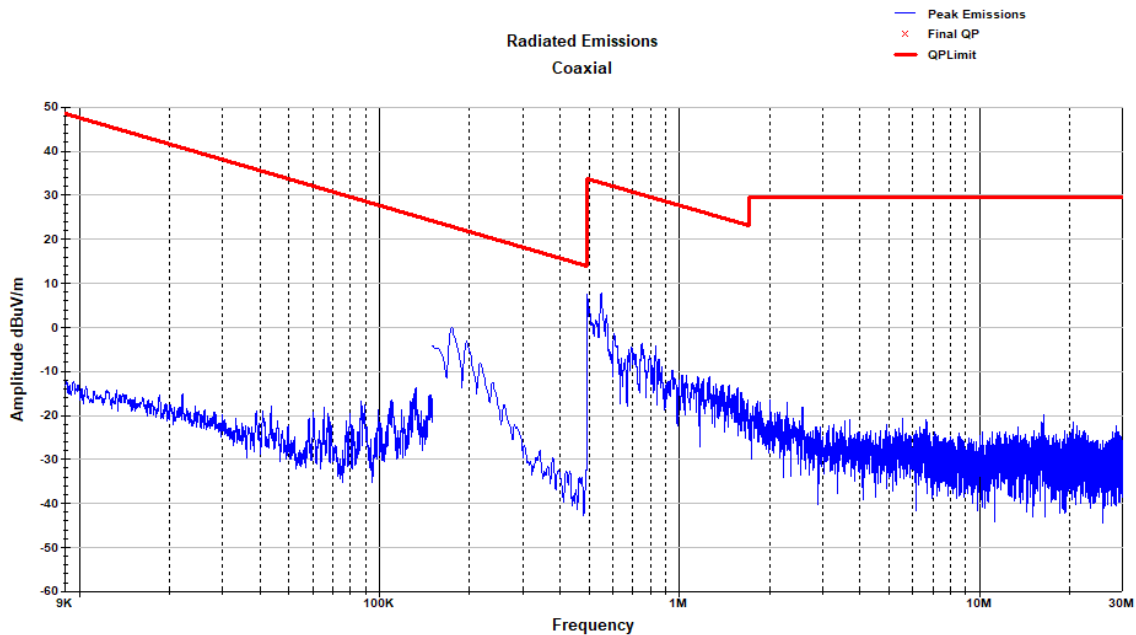


3.8 Test Data – U-NII Band 2A – 802.11a

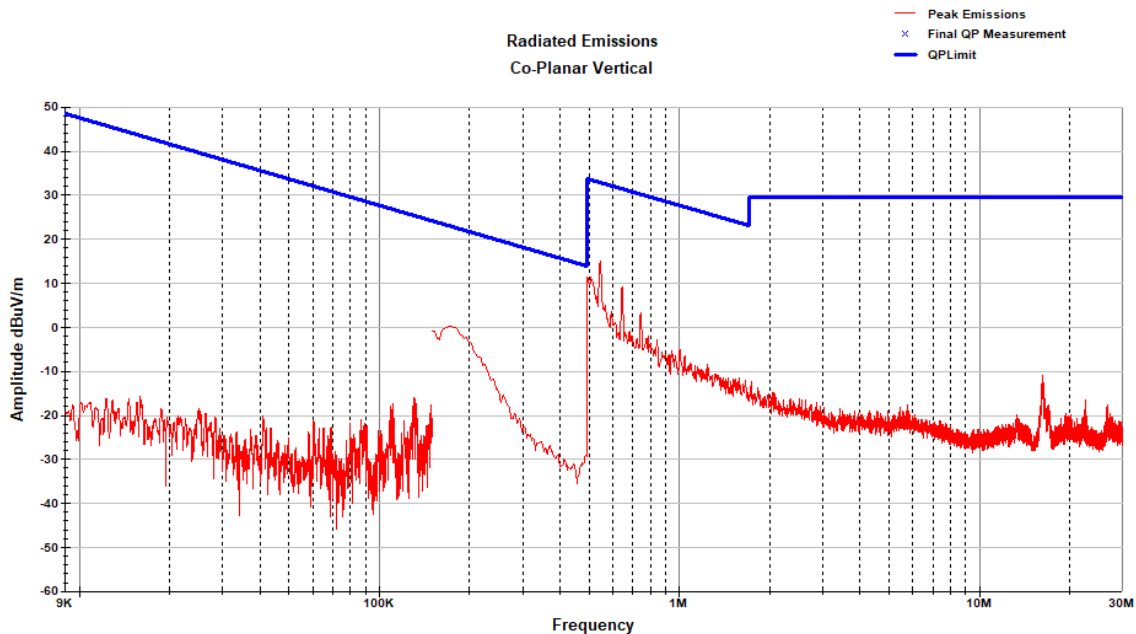
3.8.1 9kHz – 30MHz

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

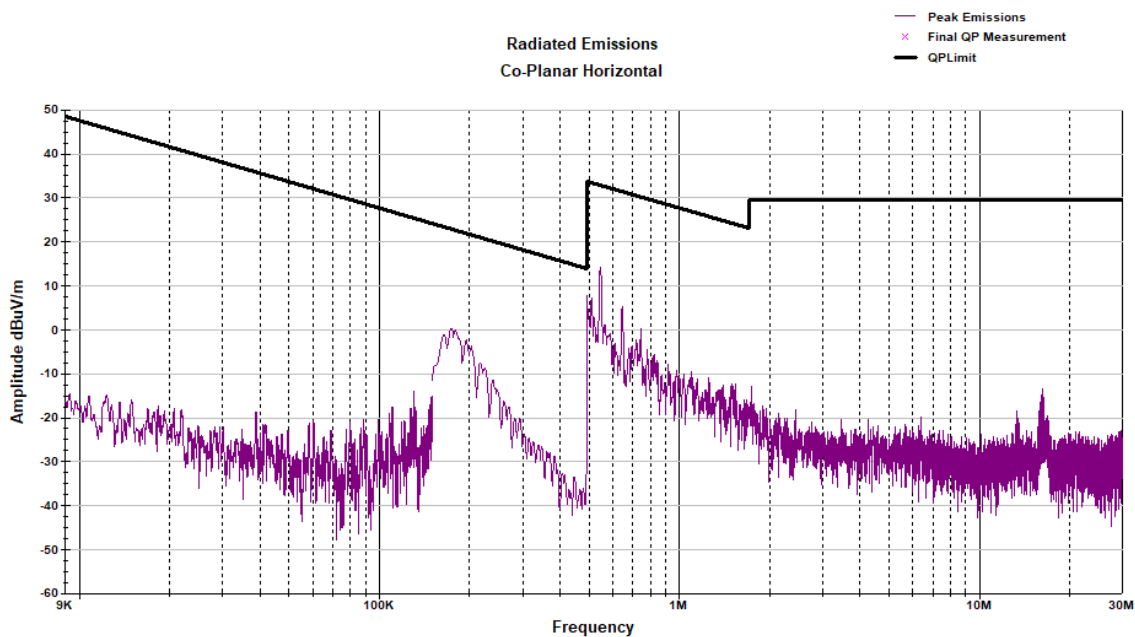
Coaxial Plot – 9 kHz-30MHz – Mid Channel



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



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

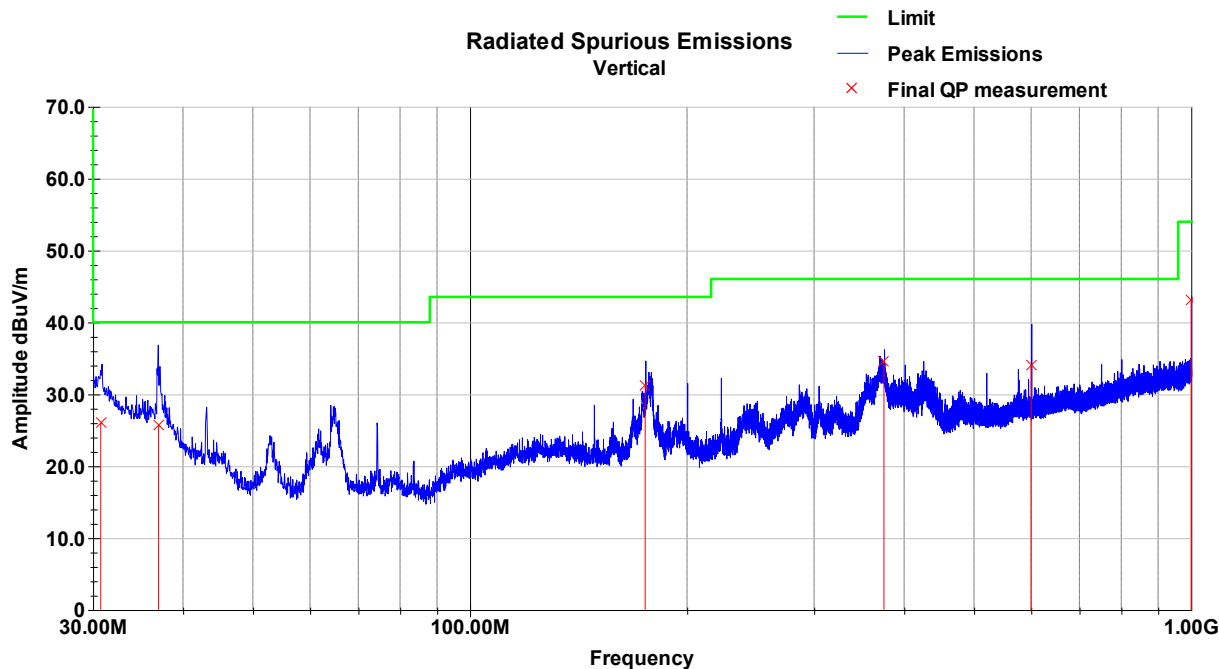


No emissions within 20dB of the limit

3.8.2 30-1000 MHz

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

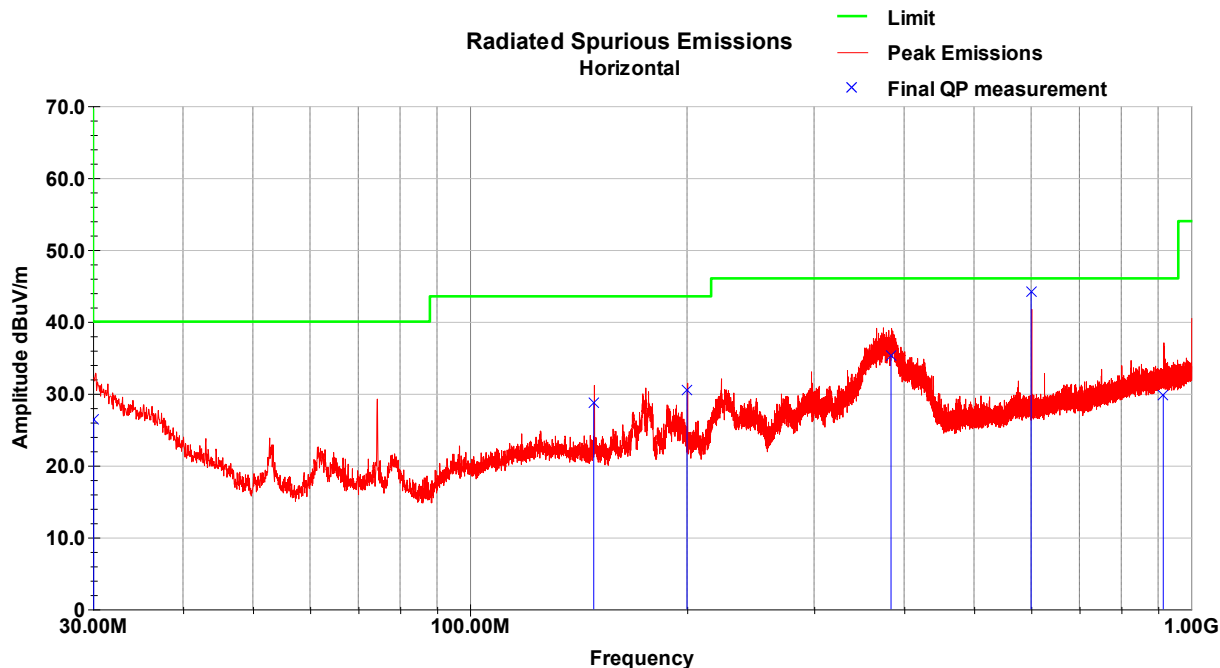
Vertical Plot – 30-1000MHz – Low Channel



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
30.75	30.8	V	238.0	231.0	25.6	0.3	30.6	26.0	100.0	-14.0
37.01	35.3	V	264.0	100.0	20.7	0.3	30.6	25.7	100.0	-14.3
175.00	44.9	V	26.0	100.0	15.8	0.9	30.4	31.3	100.0	-12.3
375.01	43.3	V	136.0	117.0	19.7	1.6	30.1	34.6	100.0	-11.4
600.00	38.0	V	49.0	147.0	23.8	1.9	29.7	34.1	100.0	-12.0
1000.00	41.5	V	167.0	100.0	28.1	2.2	28.7	43.2	54.0	-10.8
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

Horizontal Plot – 30-1000MHz – Low Channel

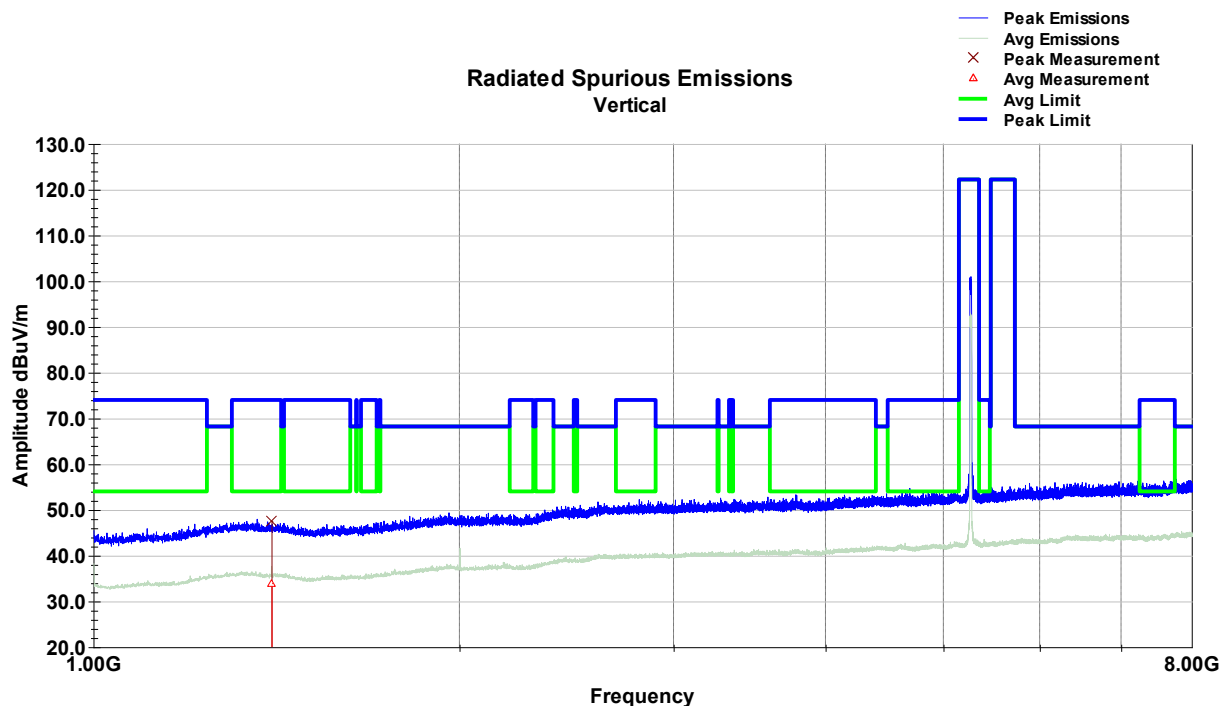


Horizontal Data – 30-1000MHz – Low Channel

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
30.07	30.7	H	183.0	100.0	26.1	0.3	30.6	26.5	100.0	-13.5
148.50	41.6	H	165.0	174.0	17.0	0.7	30.6	28.8	100.0	-14.7
200.00	42.6	H	58.0	100.0	17.0	1.0	30.3	30.4	100.0	-13.1
383.63	43.7	H	192.0	100.0	19.9	1.6	30.1	35.2	100.0	-10.8
600.01	48.1	H	243.0	118.0	23.8	1.9	29.7	44.2	100.0	-1.9
915.16	29.5	H	75.0	119.0	27.2	2.1	28.9	29.9	100.0	-16.2
QP Value = Raw QP + AF + Loss - Amp										
Margin = QP Value - Limit										

3.8.3 1-18 GHz

Vertical Plot – 1-8GHz – Low Channel

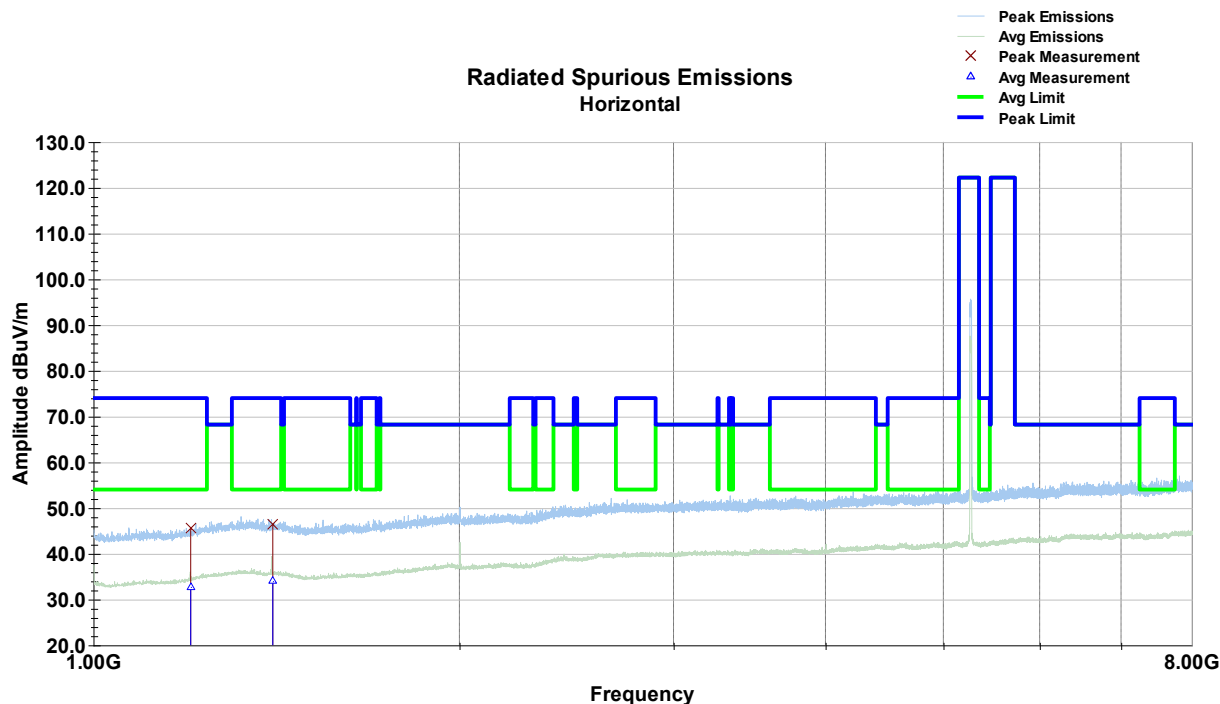


Vertical Data – 1-8GHz – Low Channel

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
1402.59	36.2	V	305.0	144.0	29.0	11.7	0.0	42.9	34.0	54.0	-20.0
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)
1402.59	49.8	V	305.0	144.0	29.0	11.7	0.0	42.9	47.6	74.0	-26.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Low Channel

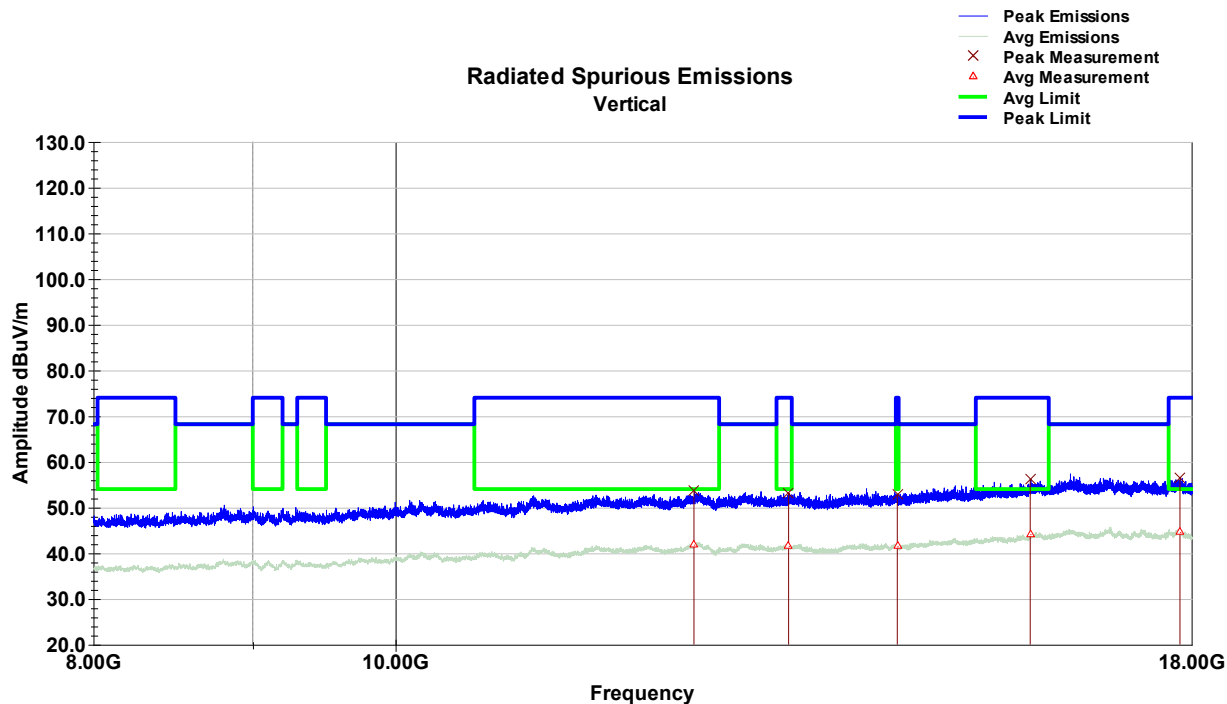


Horizontal Data – 1-8GHz – Low Channel

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	36.3	H	208.0	112.0	28.0	11.3	0.0	42.9	32.8	54.0	-21.2
1404.60	36.2	H	201.0	124.0	29.0	11.7	0.0	42.9	34.0	54.0	-20.0
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
1202.42	49.0	H	208.0	112.0	28.0	11.3	0.0	42.9	45.5	74.0	-28.5
1404.60	48.6	H	201.0	124.0	29.0	11.7	0.0	42.9	46.4	74.0	-27.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Low Channel

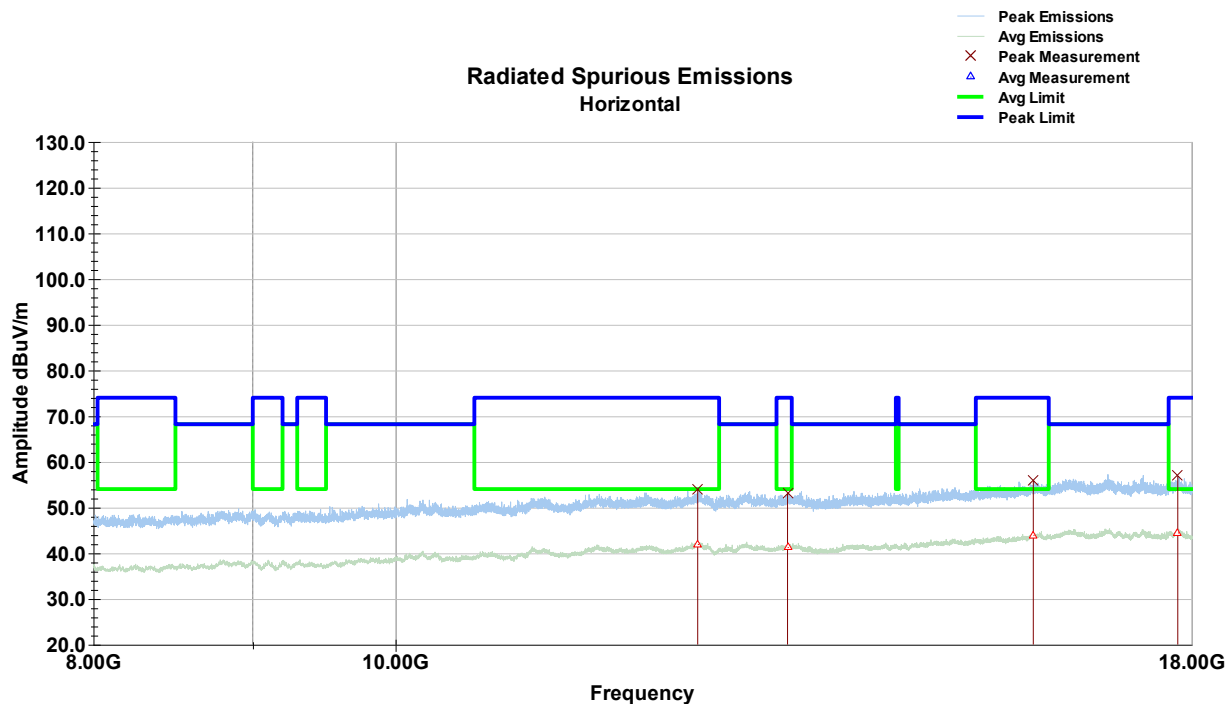


Vertical Data – 8-18GHz – Low Channel

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)
12466.00	33.6	V	45.0	250.0	39.2	4.8	0.0	35.7	41.9	54.0	-12.1
13368.50	33.3	V	250.0	100.0	39.3	5.0	0.0	36.0	41.6	54.0	-12.4
14485.00	33.2	V	240.0	250.0	39.7	5.0	0.0	36.5	41.6	54.0	-12.4
15979.50	33.9	V	317.0	250.0	40.9	5.3	0.0	35.9	44.2	54.0	-9.8
17848.00	34.6	V	325.0	250.0	41.0	5.8	0.0	36.7	44.7	54.0	-9.4
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)
12466.00	45.4	V	45.0	250.0	39.2	4.7	0.0	35.7	53.6	74.0	-20.4
13368.50	44.9	V	250.0	100.0	39.3	5.0	0.0	36.0	53.2	74.0	-20.8
14485.00	44.6	V	240.0	250.0	39.7	5.0	0.0	36.5	52.9	74.0	-21.1
15979.50	45.9	V	317.0	250.0	40.9	5.3	0.0	35.9	56.2	74.0	-17.8
17848.00	46.5	V	325.0	250.0	41.0	5.8	0.0	36.7	56.6	74.0	-17.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 8-18GHz – Low Channel

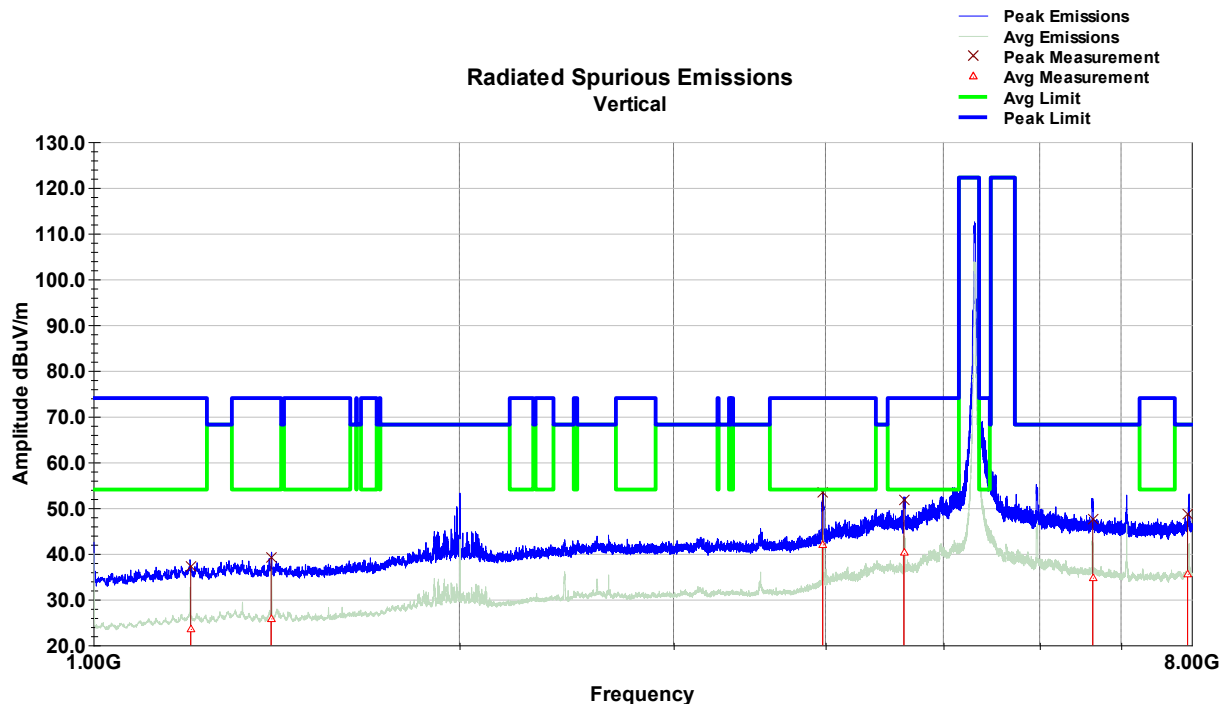


Horizontal Data – 8-18GHz – Low Channel

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)
12500.50	33.5	H	17.0	250.0	39.2	4.9	0.0	35.6	42.0	54.0	-12.0
13358.00	33.0	H	52.0	250.0	39.3	5.0	0.0	35.9	41.4	54.0	-12.6
16015.50	33.7	H	206.0	200.0	40.9	5.3	0.0	35.9	44.0	54.0	-10.0
17819.50	34.5	H	233.0	150.0	41.0	5.7	0.0	36.6	44.6	54.0	-9.4
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)
12500.50	45.4	H	17.0	250.0	39.2	4.9	0.0	35.6	54.0	74.0	-20.0
13358.00	44.7	H	52.0	250.0	39.3	5.1	0.0	35.9	53.1	74.0	-20.9
16015.50	45.5	H	206.0	200.0	40.9	5.4	0.0	35.9	55.9	74.0	-18.1
17819.50	46.8	H	233.0	150.0	41.0	5.7	0.0	36.6	56.9	74.0	-17.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – Mid Channel

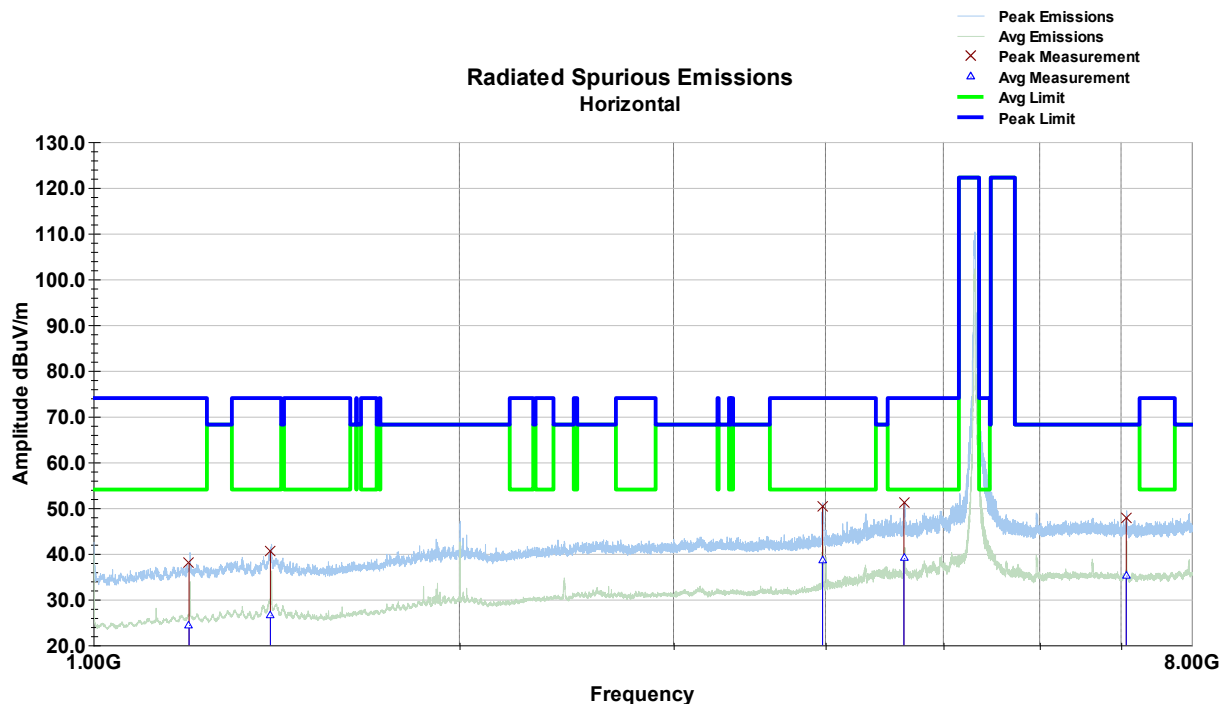


Vertical Data – 1-8GHz – Mid Channel

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
1202.41	28.1	V	31.0	147.0	28.6	1.3	0.0	34.4	23.6	54.0	-30.4
1400.23	30.3	V	247.0	120.0	28.2	1.6	0.0	34.2	25.9	54.0	-28.1
3978.51	40.4	V	177.0	116.0	33.4	2.7	0.0	34.4	42.1	54.0	-11.9
4640.28	36.6	V	19.0	113.0	34.7	3.0	0.0	34.2	40.1	54.0	-13.9
6635.02	29.9	V	323.0	100.0	35.7	3.3	0.0	34.1	34.8	68.2	-33.4
7940.12	30.8	V	333.0	105.0	35.8	3.5	0.0	34.5	35.6	68.2	-32.6
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)
1202.41	41.8	V	31.0	147.0	28.6	1.3	0.0	34.4	37.3	74.0	-36.7
1400.23	43.5	V	247.0	120.0	28.2	1.6	0.0	34.2	39.1	74.0	-34.9
3978.51	51.7	V	177.0	116.0	33.4	2.7	0.0	34.4	53.4	74.0	-20.6
4640.28	48.2	V	19.0	113.0	34.7	3.0	0.0	34.2	51.8	74.0	-22.2
6635.02	42.8	V	323.0	100.0	35.7	3.3	0.0	34.1	47.7	68.2	-20.5
7940.12	43.7	V	333.0	105.0	35.8	3.5	0.0	34.5	48.5	68.2	-19.7
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – Mid Channel

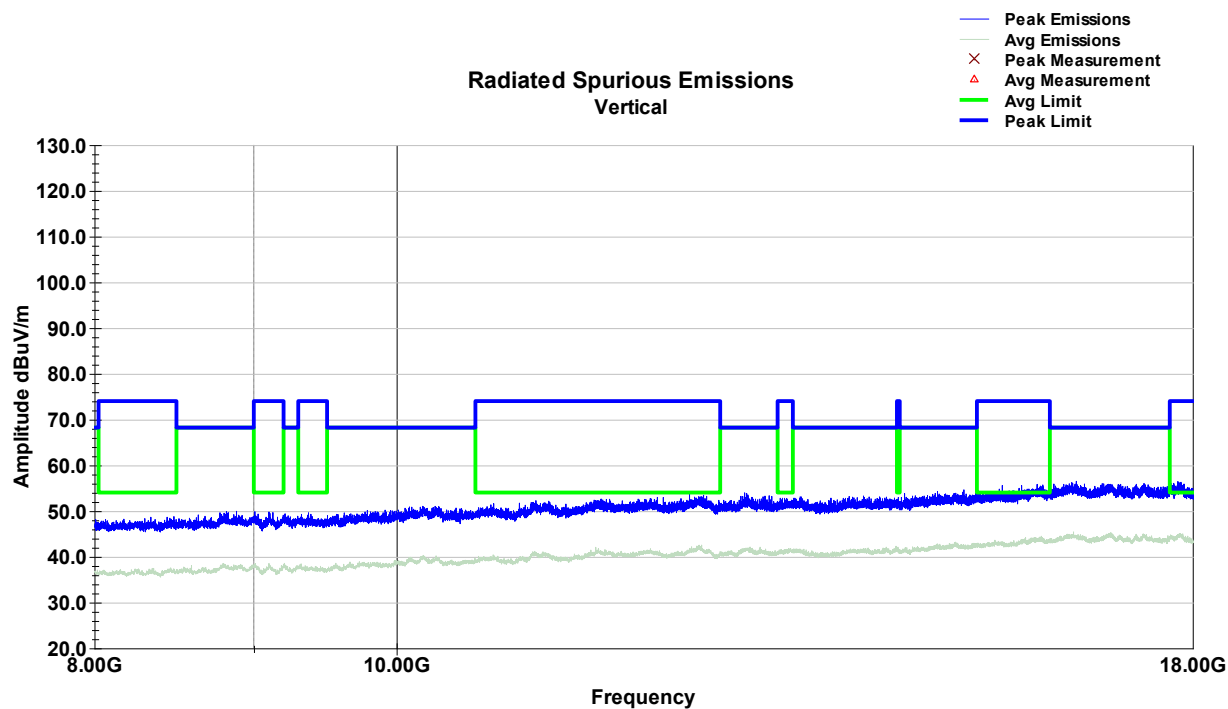


Horizontal Data – 1-8GHz – Mid Channel

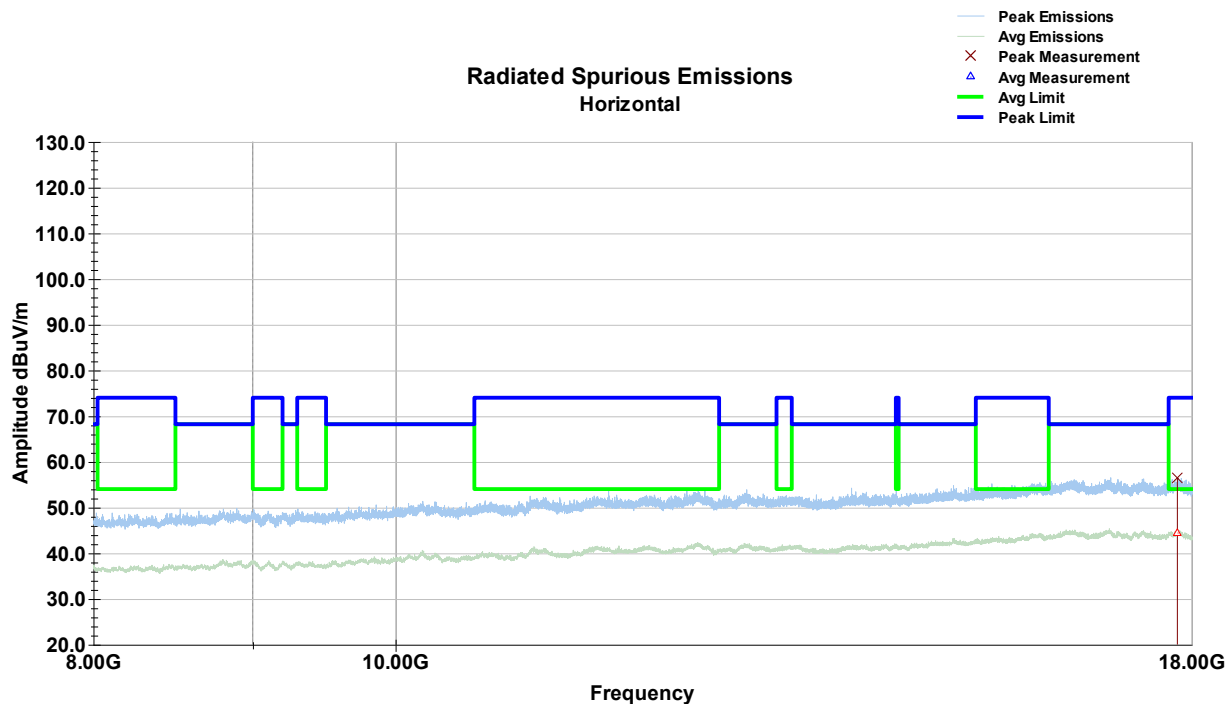
Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1198.80	28.9	H	24.0	110.0	28.6	1.3	0.0	34.4	24.4	54.0	-29.6
1398.25	31.0	H	138.0	182.0	28.2	1.6	0.0	34.3	26.6	54.0	-27.4
3978.28	36.8	H	177.0	185.0	33.4	2.7	0.0	34.4	38.5	54.0	-15.5
4640.17	35.5	H	213.0	210.0	34.7	3.0	0.0	34.2	39.1	54.0	-14.9
7068.98	30.7	H	177.0	155.0	35.8	3.3	0.0	34.6	35.2	68.2	-33.0
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
1198.80	42.4	H	24.0	110.0	28.6	1.3	0.0	34.4	37.9	74.0	-36.1
1398.25	45.0	H	138.0	182.0	28.2	1.6	0.0	34.3	40.5	74.0	-33.5
3978.28	48.7	H	177.0	185.0	33.4	2.7	0.0	34.4	50.3	74.0	-23.7
4640.17	47.6	H	213.0	210.0	34.7	3.0	0.0	34.2	51.2	74.0	-22.8
7068.98	43.4	H	177.0	155.0	35.8	3.3	0.0	34.6	47.9	68.2	-20.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 8-18GHz – Mid Channel



Horizontal Plot – 8-18GHz – Mid Channel

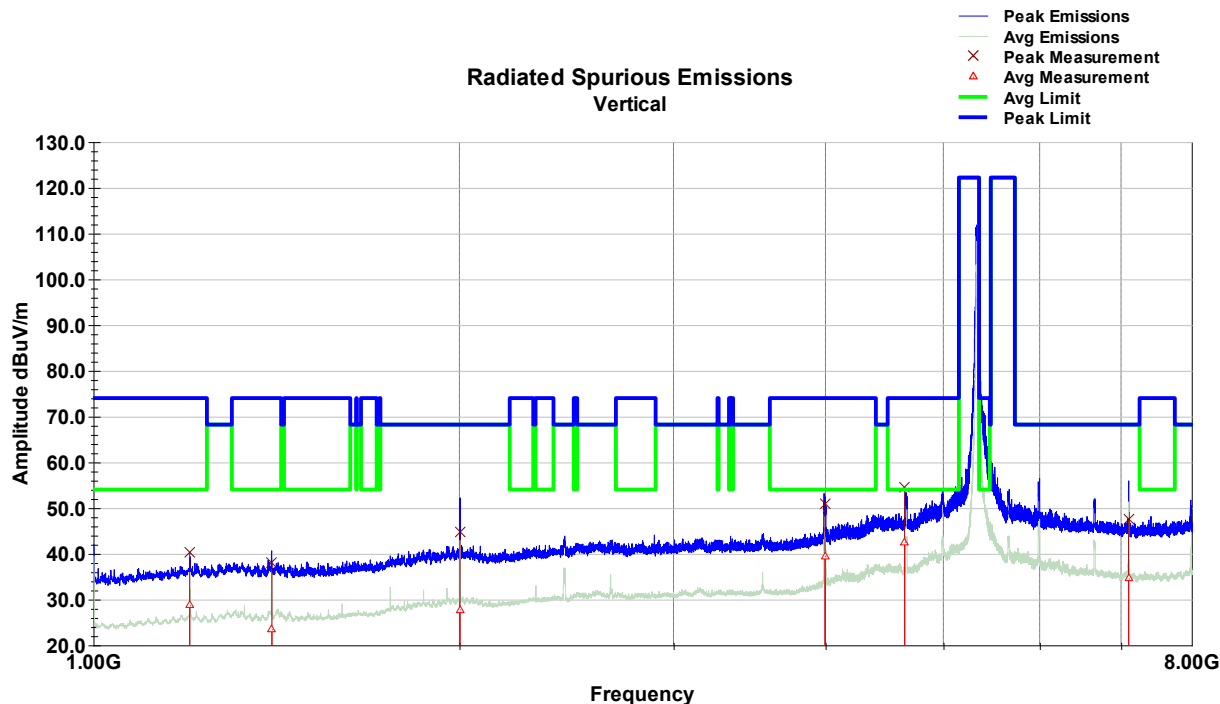


Horizontal Data – 8-18GHz – Mid Channel

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)
17813.50	34.5	H	0.0	200.0	41.0	5.7	0.0	36.6	44.5	54.0	-9.5
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)
17813.50	46.4	H	0.0	200.0	41.0	5.7	0.0	36.6	56.5	74.0	-17.5
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Vertical Plot – 1-8GHz – High Channel

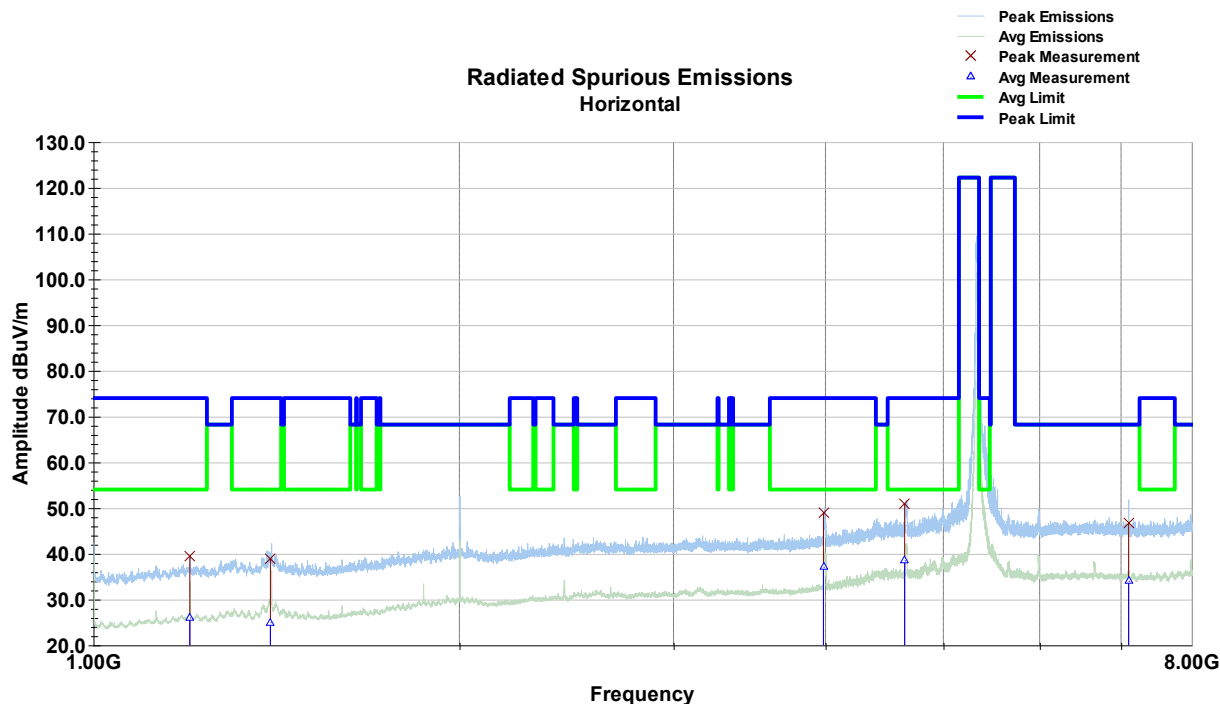


Vertical Data – 1-8GHz – High Channel

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
1200.36	33.2	V	236.0	200.0	28.6	1.3	0.0	34.4	28.8	54.0	-25.2
1402.35	27.9	V	180.0	102.0	28.2	1.6	0.0	34.3	23.5	54.0	-30.5
2002.23	28.9	V	117.0	120.0	31.7	1.9	0.0	34.7	27.8	68.2	-40.4
3996.20	37.9	V	212.0	160.0	33.4	2.7	0.0	34.4	39.5	54.0	-14.5
4647.43	39.1	V	10.0	232.0	34.7	3.0	0.0	34.2	42.6	54.0	-11.4
7100.92	30.7	V	201.0	187.0	35.8	3.3	0.0	35.2	34.6	68.2	-33.6
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)
1200.36	44.7	V	236.0	200.0	28.6	1.3	0.0	34.4	40.2	74.0	-33.8
1402.35	42.4	V	180.0	102.0	28.2	1.6	0.0	34.3	37.9	74.0	-36.1
2002.23	45.7	V	117.0	120.0	31.7	1.9	0.0	34.7	44.6	68.2	-23.6
3996.20	49.2	V	212.0	160.0	33.4	2.7	0.0	34.4	50.8	74.0	-23.2
4647.43	50.9	V	10.0	232.0	34.7	3.0	0.0	34.2	54.4	74.0	-19.6
7100.92	43.7	V	201.0	187.0	35.8	3.3	0.0	35.2	47.6	68.2	-20.6
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Horizontal Plot – 1-8GHz – High Channel

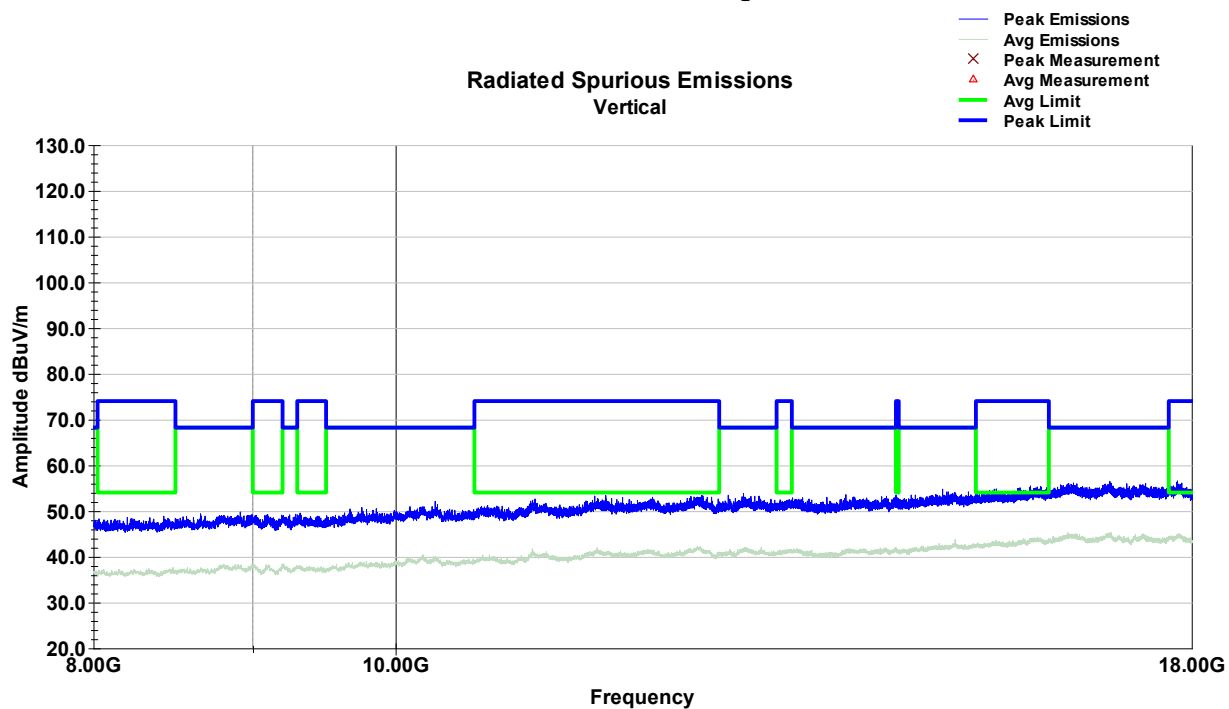


Horizontal Data – 1-8GHz – High Channel

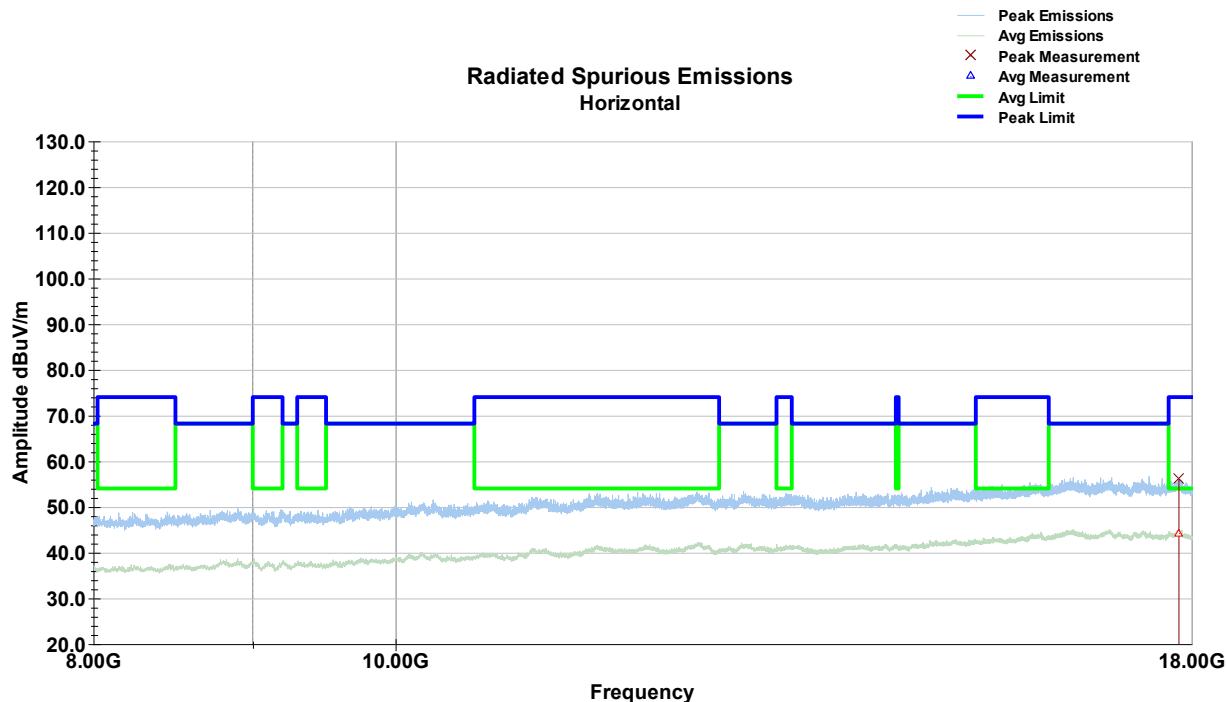
Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1200.61	30.5	H	98.0	224.0	28.6	1.3	0.0	34.4	26.1	54.0	-27.9
1398.25	29.5	H	122.0	100.0	28.2	1.6	0.0	34.3	25.0	54.0	-29.0
3984.29	35.5	H	163.0	114.0	33.4	2.7	0.0	34.4	37.1	54.0	-16.9
4647.18	35.0	H	210.0	196.0	34.7	3.0	0.0	34.2	38.6	54.0	-15.4
7101.05	30.2	H	175.0	166.0	35.8	3.3	0.0	35.2	34.1	68.2	-34.1
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	43.8	H	98.0	224.0	28.6	1.3	0.0	34.4	39.3	74.0	-34.7
1398.25	43.4	H	122.0	100.0	28.2	1.6	0.0	34.3	38.9	74.0	-35.1
3984.29	47.3	H	163.0	114.0	33.4	2.7	0.0	34.4	49.0	74.0	-25.0
4647.18	47.5	H	210.0	196.0	34.7	3.0	0.0	34.2	51.0	74.0	-23.0
7101.05	42.9	H	175.0	166.0	35.8	3.3	0.0	35.2	46.8	68.2	-21.4
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

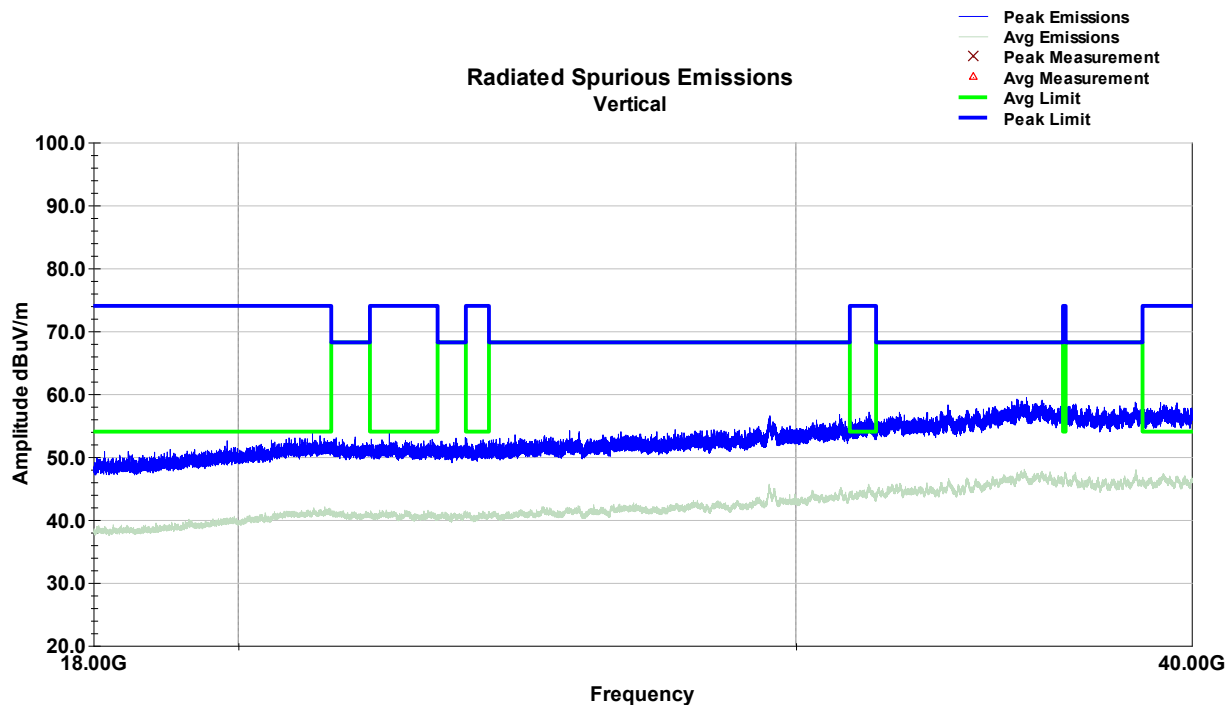
Frequency (MHz)	Raw Avg (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF (dB)	Amp (dB)	Final Avg (dBuV/m)	Limit (dBuV/m)	Margin (dB)
17834.00	34.2	H	163.0	200.0	41.0	5.8	0.0	36.7	44.3	54.0	-9.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

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)
17834.00	46.0	H	163.0	200.0	41.0	5.8	0.0	36.7	56.1	74.0	-17.9
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

3.8.4 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

