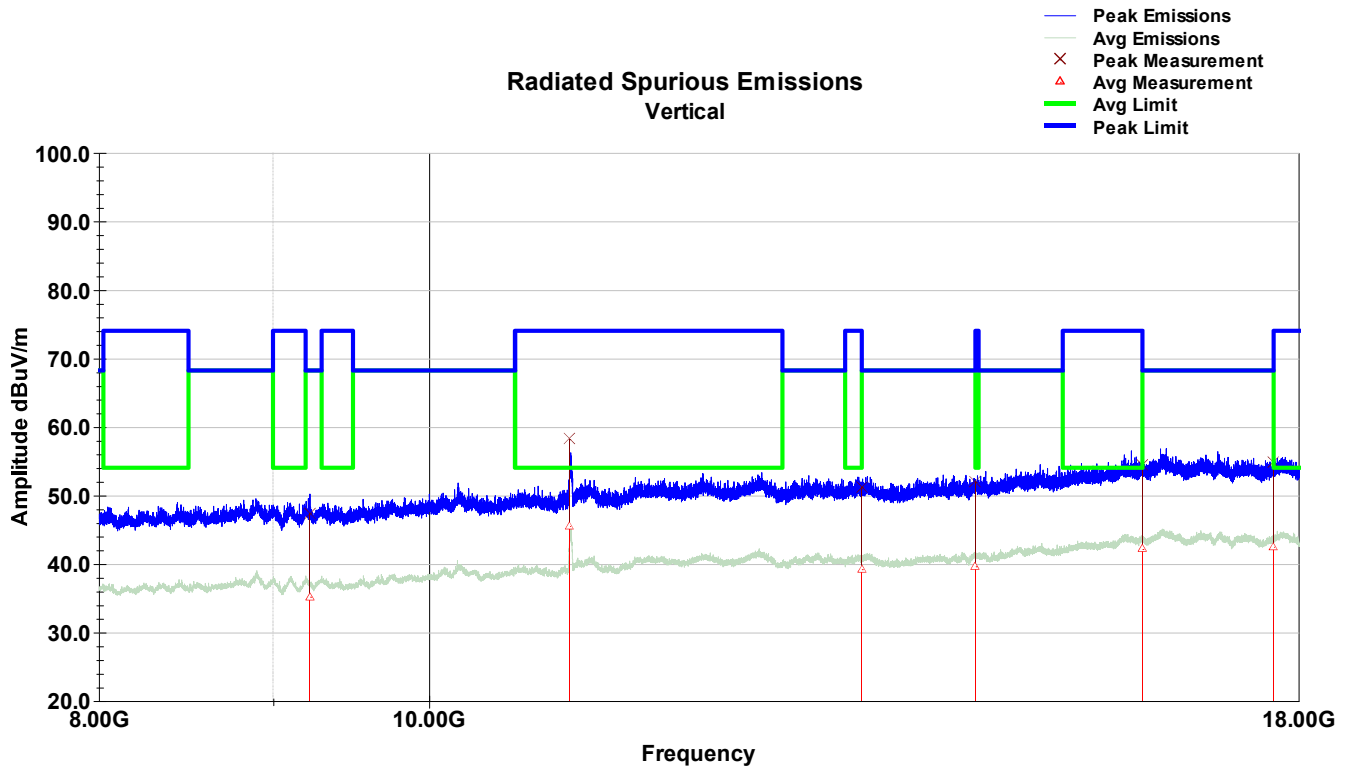


8-18 GHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation.

8-18GHz – Vertical – CH100 X-axis



Peak

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)
9227.12	42.2	V	83.0	121.0	36.5	3.5	NAN	34.9	47.4	68.2	-20.8
10998.88	51.4	V	182.0	195.0	38.4	4.2	NAN	35.8	58.2	74.0	-15.8
13395.60	43.6	V	75.0	128.0	39.2	4.5	NAN	36.2	51.2	74.0	-22.8
14468.72	43.9	V	104.0	112.0	39.7	4.6	NAN	36.3	52.0	68.2	-16.2
16196.68	44.5	V	250.0	107.0	40.8	5.1	NAN	36.0	54.4	74.0	-19.6
17703.40	45.0	V	313.0	207.0	40.9	5.3	NAN	36.5	54.8	74.0	-19.2

Final Pk = Raw Pk + AF + Loss + DCF - Amp

Margin = Final Pk - Limit

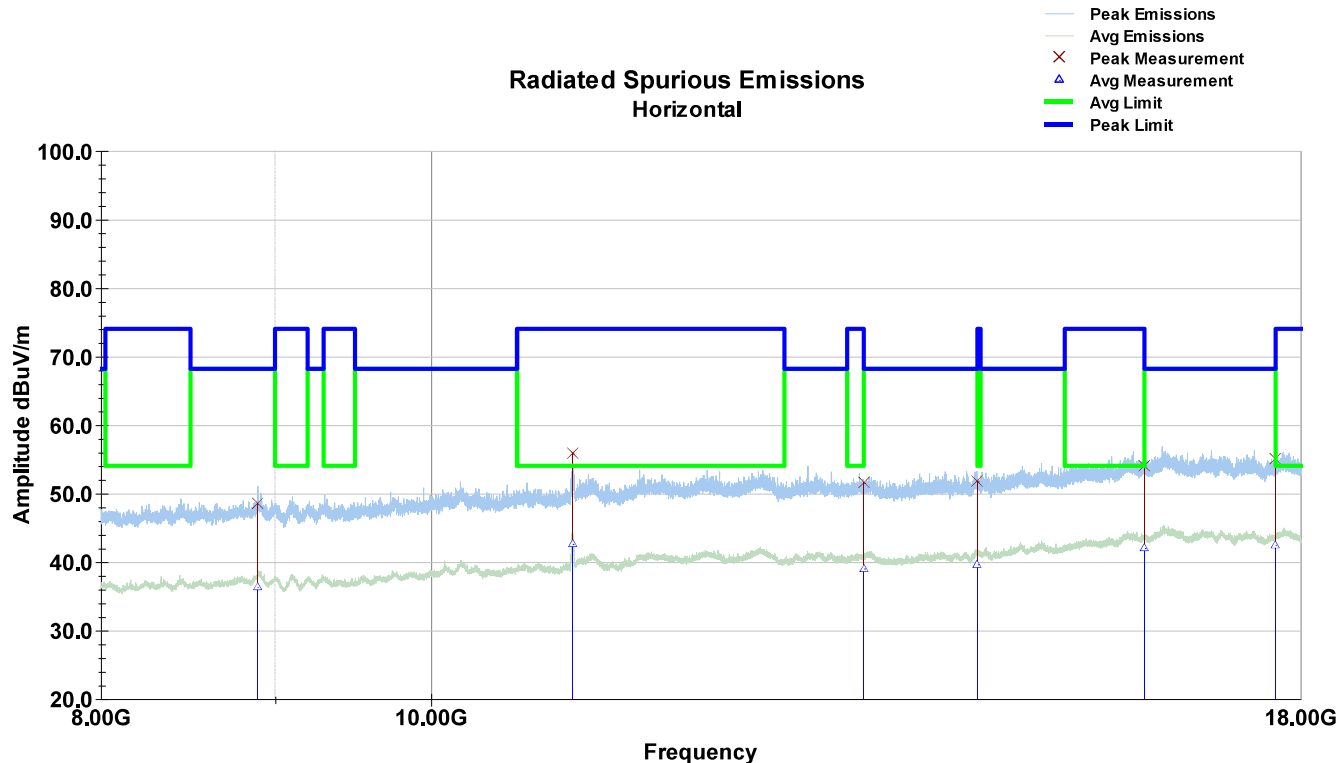
Average

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
9227.12	30.1	V	83.0	121.0	36.5	3.5	NAN	34.9	35.2	68.2	-33.0
10998.88	38.7	V	182.0	195.0	38.4	4.2	NAN	35.8	45.5	54.0	-8.5
13395.60	31.6	V	75.0	128.0	39.2	4.5	NAN	36.2	39.3	54.0	-14.7
14468.72	31.6	V	104.0	112.0	39.7	4.6	NAN	36.3	39.6	68.2	-28.6
16196.68	32.3	V	250.0	107.0	40.8	5.1	NAN	36.0	42.2	54.0	-11.8
17703.40	32.8	V	313.0	207.0	40.9	5.3	NAN	36.5	42.5	54.0	-11.5

Final Avg = Raw Avg + AF + Loss + DCF - Amp

Margin = Final Avg - Limit

8-18GHz – Horizontal – CH100 X-axis



Peak

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
8893.00	42.7	H	261.0	232.0	36.3	3.5	NAN	34.0	48.5	68.2	-19.7
11003.50	49.0	H	63.0	201.0	38.4	4.2	NAN	35.7	55.9	74.0	-18.1
13400.00	44.0	H	187.0	117.0	39.2	4.5	NAN	36.2	51.6	68.2	-16.6
14470.00	43.7	H	30.0	247.0	39.7	4.6	NAN	36.3	51.8	68.2	-16.4
16200.00	44.2	H	26.0	209.0	40.8	5.1	NAN	36.0	54.1	68.2	-14.1
17700.00	45.3	H	201.0	100.0	40.9	5.3	NAN	36.5	55.1	68.2	-13.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

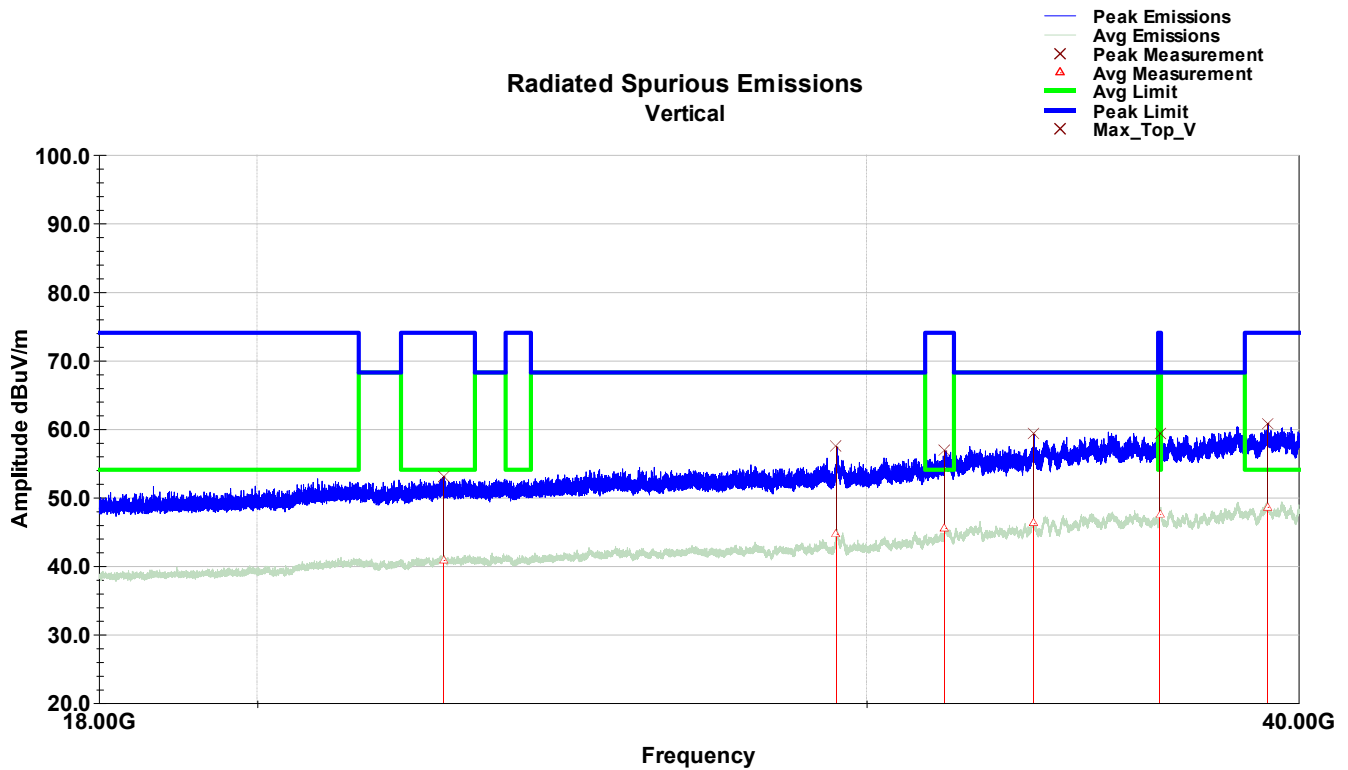
Average

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)
8893.00	30.5	H	261.0	232.0	36.3	3.5	NAN	34.0	36.4	68.2	-31.8
11003.50	35.8	H	63.0	201.0	38.4	4.2	NAN	35.7	42.6	54.0	-11.4
13400.00	31.5	H	187.0	117.0	39.2	4.5	NAN	36.2	39.1	68.2	-29.1
14470.00	31.6	H	30.0	247.0	39.7	4.6	NAN	36.3	39.7	68.2	-28.5
16200.00	32.1	H	26.0	209.0	40.8	5.1	NAN	36.0	42.1	68.2	-26.1
17700.00	32.7	H	201.0	100.0	40.9	5.3	NAN	36.5	42.5	68.2	-25.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz

- This frequency range does not show any significant difference between different EUT orientations. Worst case plots shown. Emissions are noise floor related.

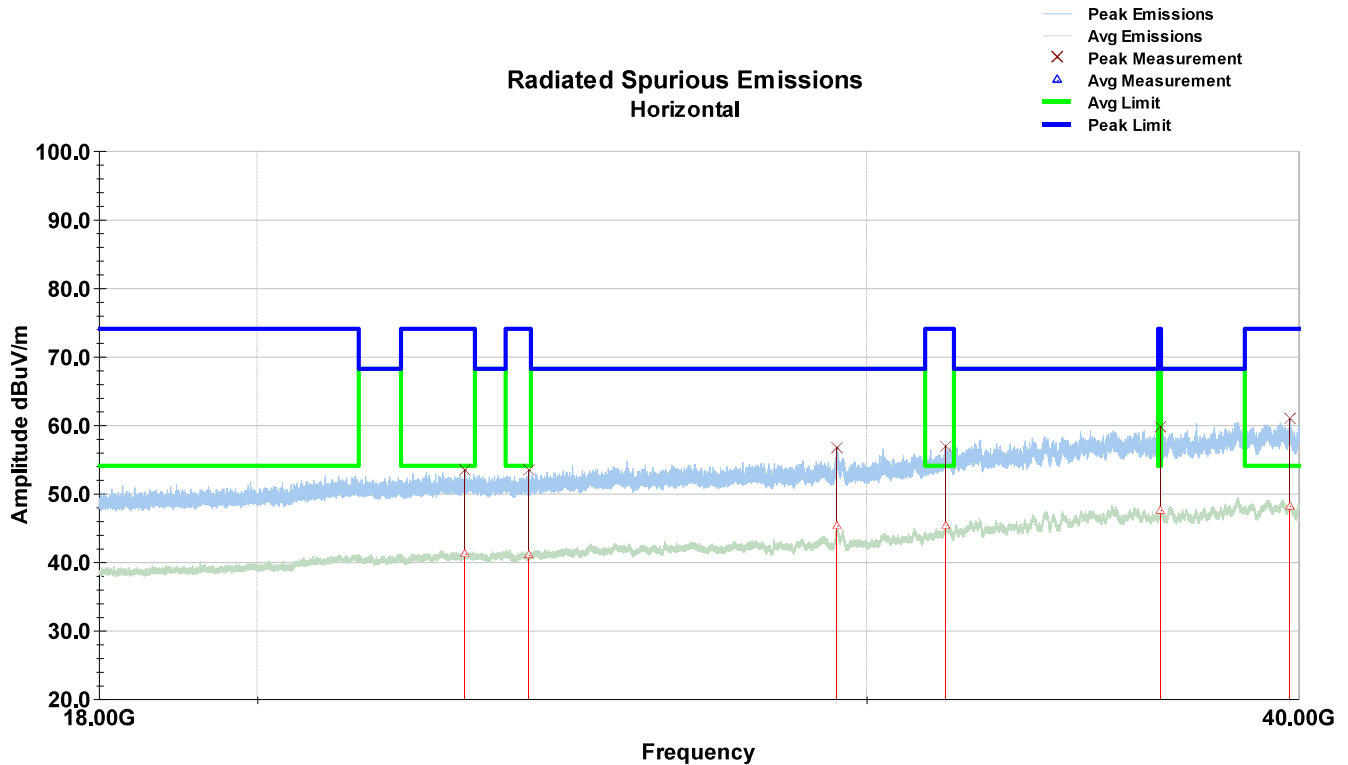
18-40GHz – Vertical – CH100 X-axis (1m distance)



Peak											
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
22638.92	56.7	V	167.0	100.0	45.8	10.1	-9.5	50.0	53.1	74.0	-20.9
29407.44	56.8	V	74.0	248.0	46.9	11.7	-9.5	48.6	57.4	68.2	-10.8
31615.36	53.9	V	37.0	200.0	47.4	12.0	-9.5	47.0	56.8	74.0	-17.2
33529.80	56.6	V	301.0	248.0	48.1	12.6	-9.5	48.5	59.2	68.2	-9.0
36477.80	56.8	V	165.0	200.0	48.8	13.2	-9.5	50.0	59.4	74.0	-14.6
39178.96	57.2	V	184.0	200.0	48.9	14.3	-9.5	50.0	60.8	74.0	-13.2
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Average											
Frequency MHz	Raw Ave 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
22638.92	44.5	V	167.0	100.0	45.8	10.1	-9.5	50.0	40.9	54.0	-13.1
29407.44	44.1	V	74.0	248.0	46.9	11.7	-9.5	48.6	44.7	68.2	-23.5
31615.36	42.6	V	37.0	200.0	47.4	12.0	-9.5	47.0	45.5	54.0	-8.5
33529.80	43.6	V	301.0	248.0	48.1	12.6	-9.5	48.5	46.3	68.2	-21.9
36477.80	45.0	V	165.0	200.0	48.8	13.2	-9.5	50.0	47.6	54.0	-6.4
39178.96	45.0	V	184.0	200.0	48.9	14.4	-9.5	50.0	48.6	54.0	-5.4
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz – Horizontal – CH100 X-axis (1m distance)



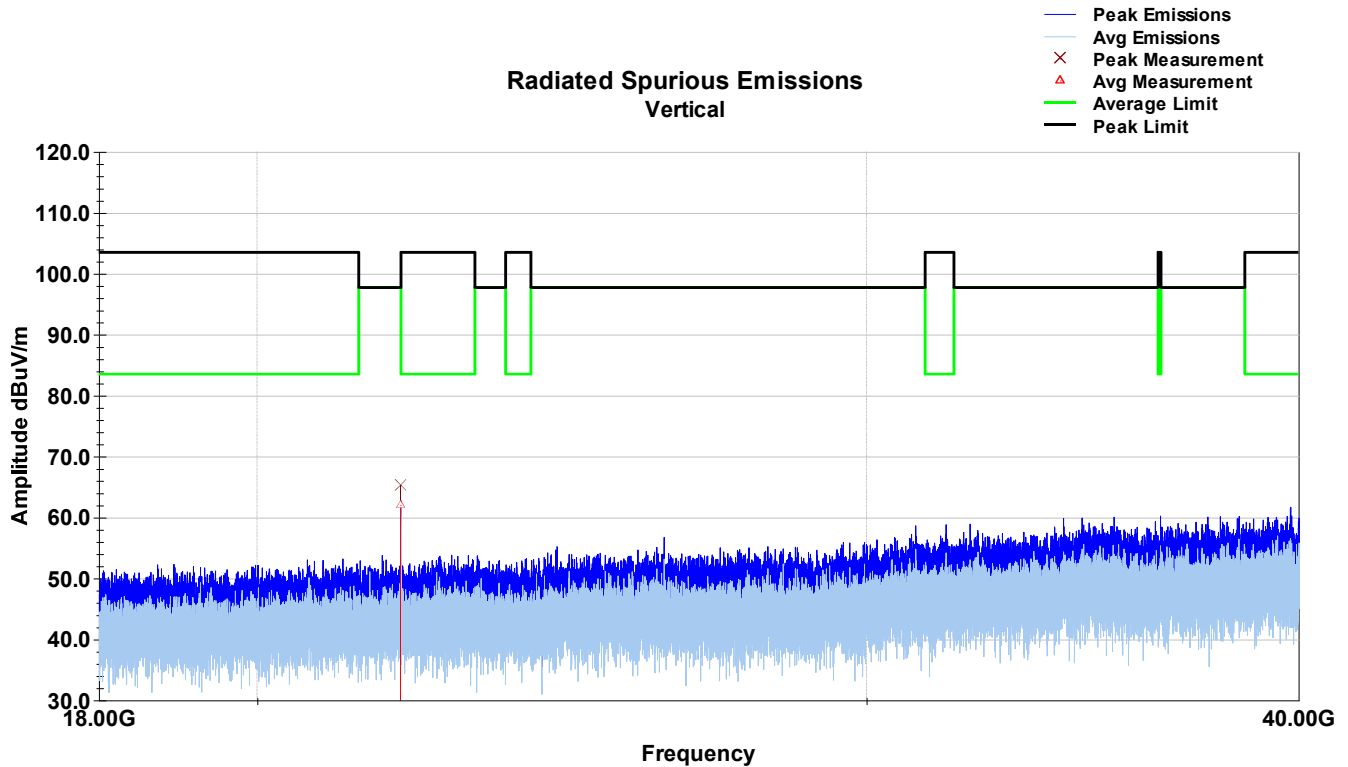
Peak

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
22963.64	57.1	H	23.0	150.0	45.8	10.2	-9.5	50.1	53.5	74.0	-20.5
23963.76	57.1	H	362.0	200.0	45.7	10.3	-9.5	50.1	53.5	74.0	-20.5
29413.60	55.9	H	326.0	247.0	46.9	11.7	-9.5	48.3	56.7	68.2	-11.5
31619.76	54.0	H	223.0	247.0	47.4	12.0	-9.5	46.9	57.0	74.0	-17.0
36479.56	57.2	H	103.0	200.0	48.8	13.2	-9.5	50.0	59.8	74.0	-14.2
39769.00	56.5	H	42.0	200.0	49.1	14.1	-9.5	49.3	60.9	74.0	-13.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Average

Frequency MHz	Raw Ave 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
22963.64	44.8	H	23.0	150.0	45.8	10.2	-9.5	50.1	41.2	54.0	-12.8
23963.76	44.6	H	362.0	200.0	45.7	10.3	-9.5	50.1	41.0	54.0	-13.0
29413.60	44.5	H	326.0	247.0	46.9	11.7	-9.5	48.3	45.3	68.2	-22.9
31619.76	42.4	H	223.0	247.0	47.4	12.0	-9.5	46.9	45.4	54.0	-8.6
36479.56	45.0	H	103.0	200.0	48.8	13.2	-9.5	50.0	47.6	54.0	-6.5
39769.00	43.8	H	42.0	200.0	49.1	14.1	-9.5	49.3	48.2	54.0	-5.8
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz – Vertical – CH100 X-axis (10cm distance)



Note: To verify compliance, measurements were performed at a 10cm distance.

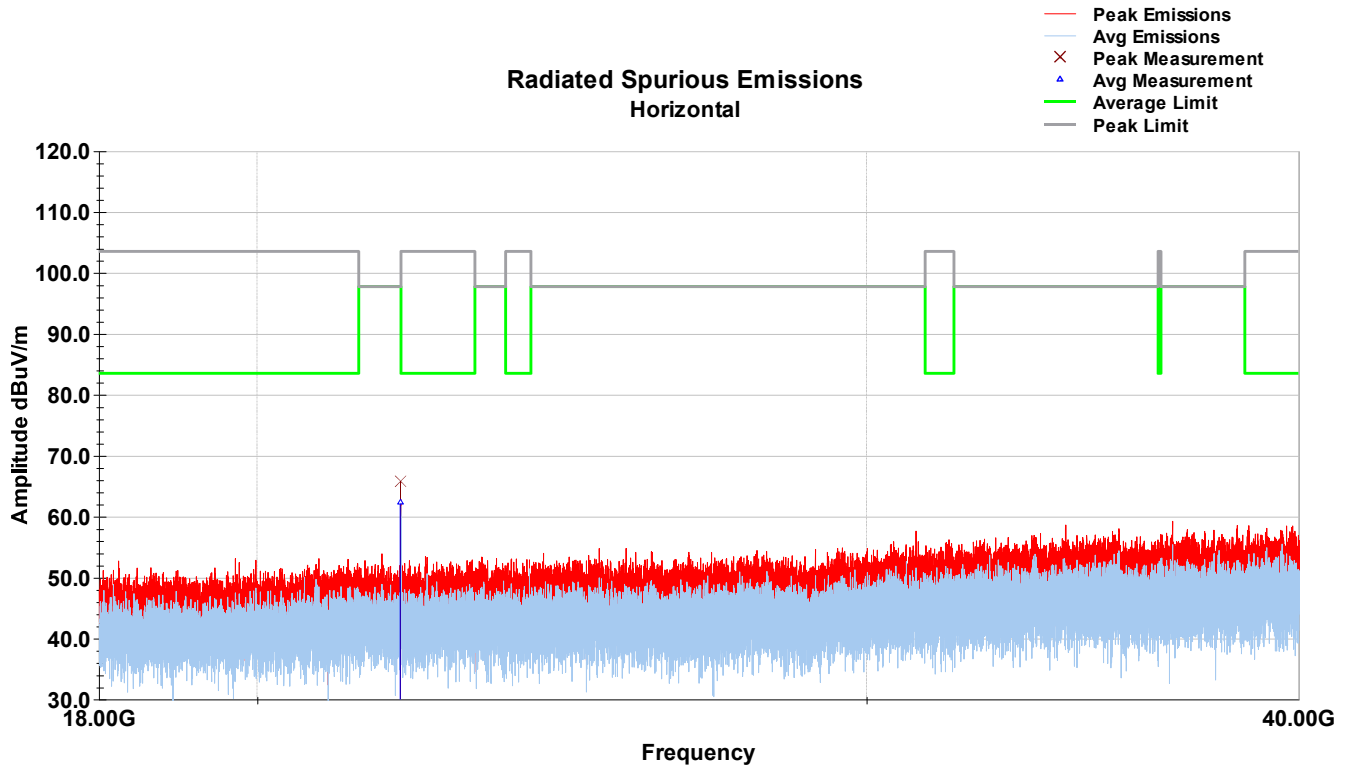
Peak Data Table

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
21999.80	60.4	V	0.0	0.0	45.7	9.1	49.9	65.3	97.7	-32.4
Final Pk = Raw Pk + AF + Loss - Amp										
Margin = Final Pk - Limit										

Ave Data Table

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit dBuV/m	Margin dB
21999.80	57.2	V	0.0	0.0	45.7	9.1	49.9	62.1	97.7	-35.6
Final Avg = Raw Avg + AF + Loss - Amp										
Margin = Final Avg - Limit										

18-40GHz – Horizontal – CH100 X-axis (10cm distance)



Peak Data Table

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
21999.68	60.8	H	0.0	0.0	45.7	9.1	49.9	65.7	97.7	-32.0
Final Pk = Raw Pk + AF + Loss - Amp										
Margin = Final Pk - Limit										

Ave Data Table

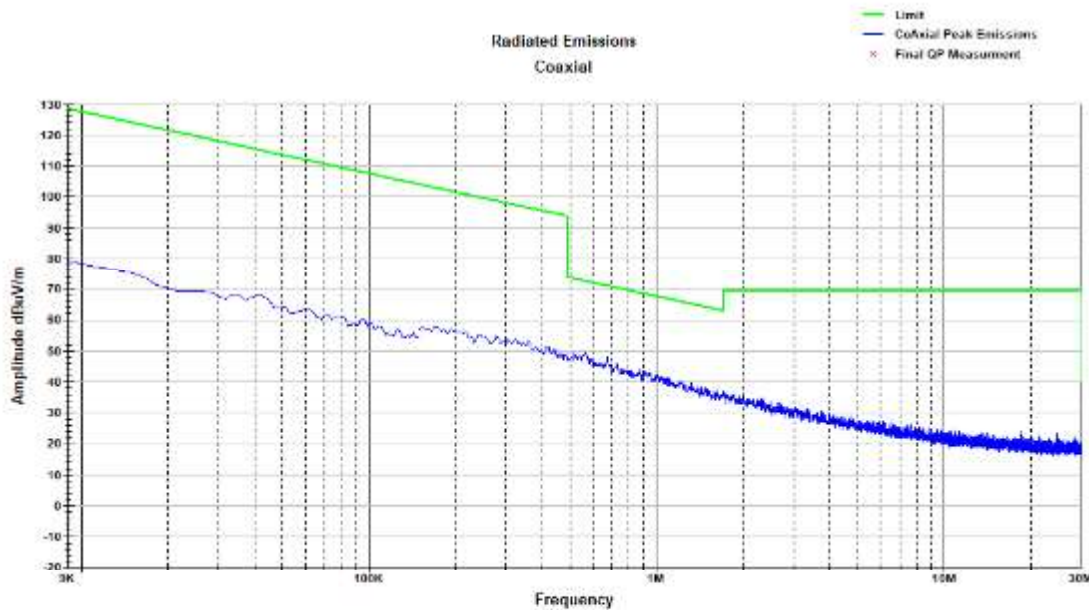
Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit dBuV/m	Margin dB
21999.68	57.3	H	0.0	0.0	45.7	9.1	49.9	62.3	97.7	-35.4
Final Avg = Raw Avg + AF + Loss - Amp										
Margin = Final Avg - Limit										

6.11.3 WLAN 802.11a – 18 Mbps - OFDM - Antenna 1 Channel 165

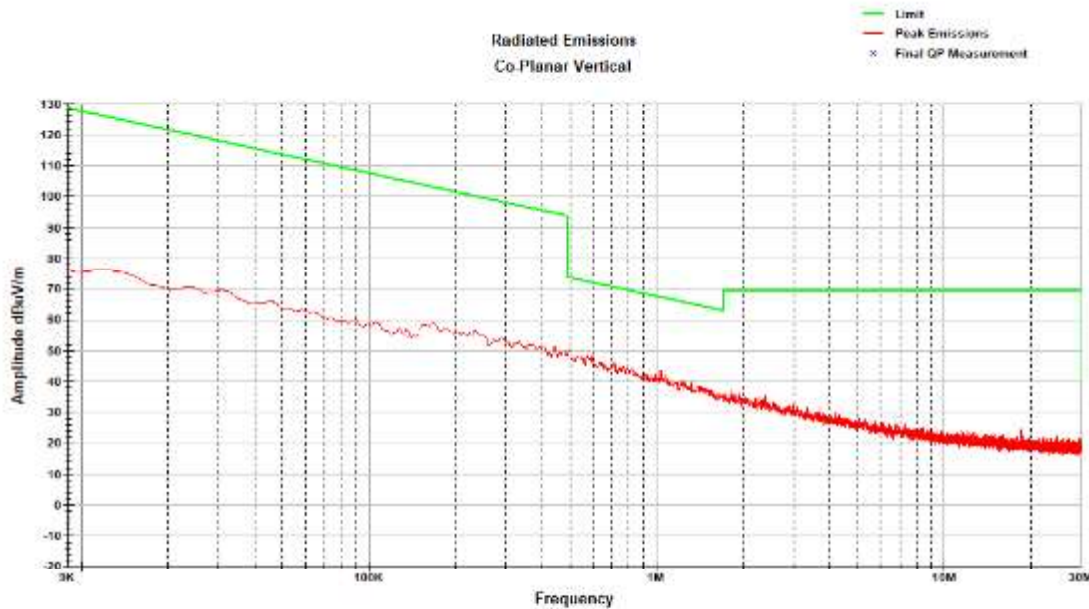
9kHz-30MHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. No unwanted emissions within 20db of the limit. Unintentional emissions are not a part of this evaluation.

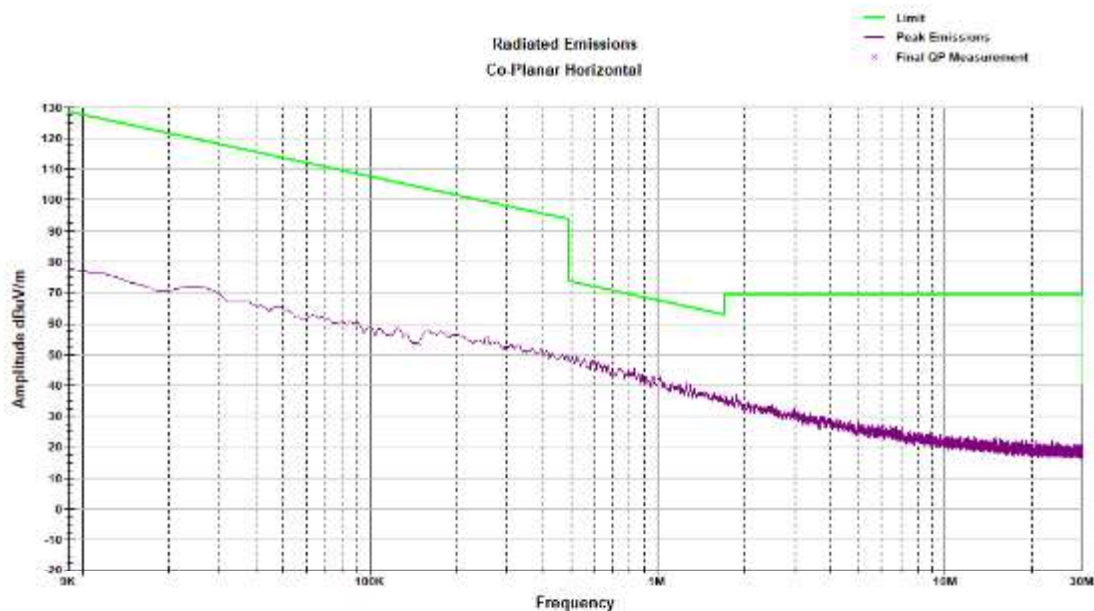
9kHz-30MHz – Vertical – CH165 X-axis



9kHz-30MHz – Co-planar Vertical – CH165 X-axis



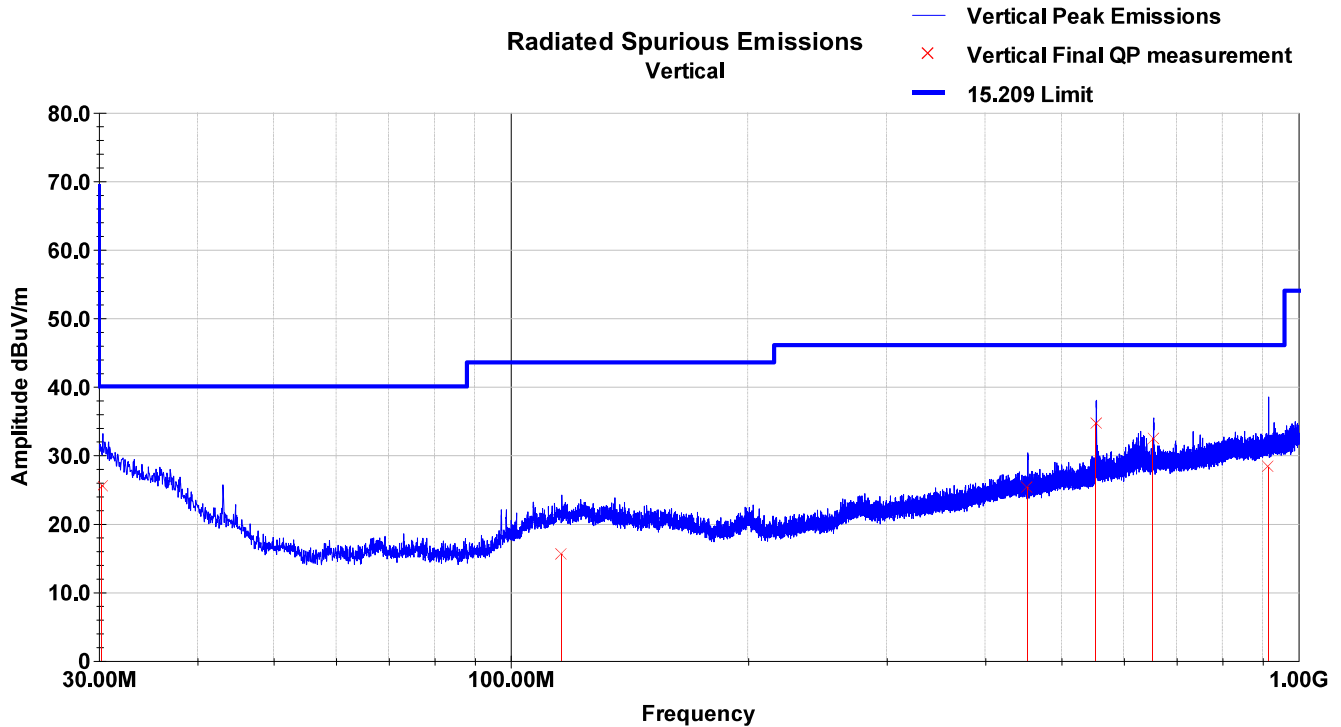
9kHz-30MHz – Co-planar Horizontal – CH165 X-axis



30-1000MHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. No unwanted emissions within 20db of the limit. Unintentional emissions are not a part of this evaluation.

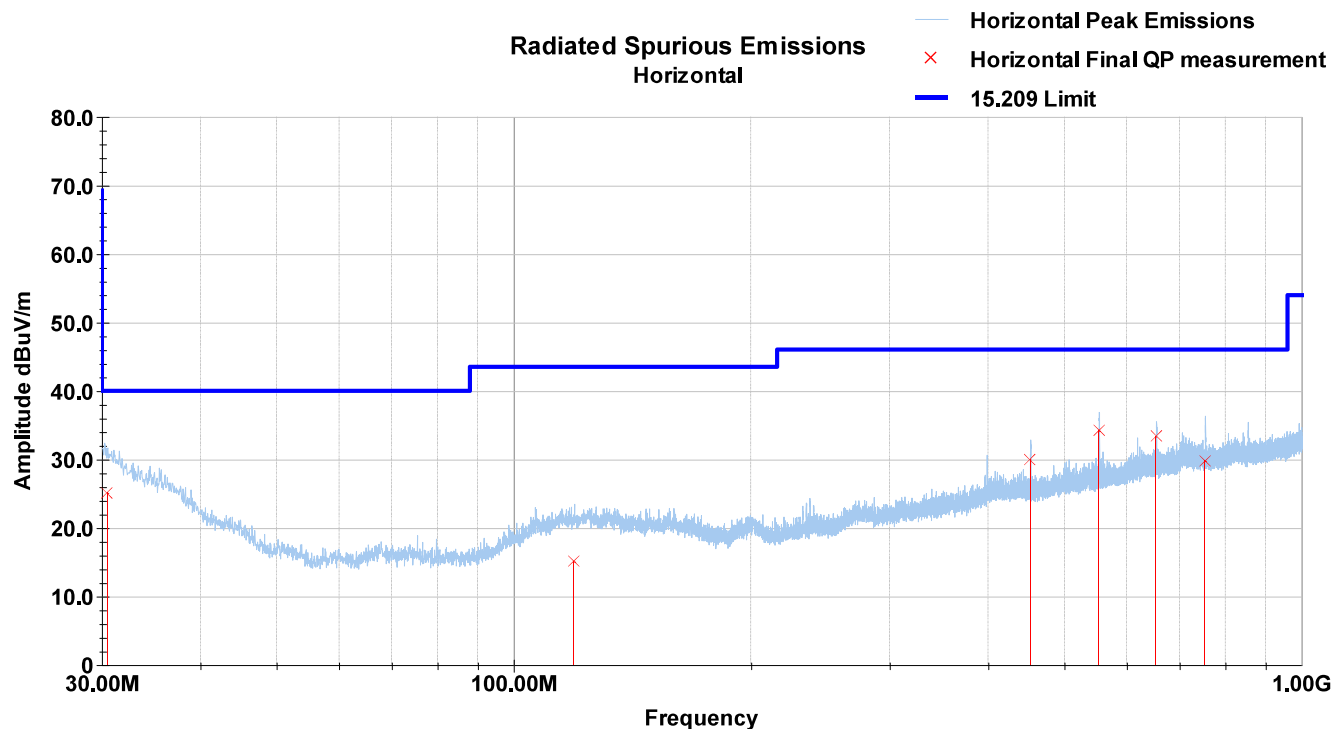
30-1000MHz – Vertical – CH165 X-axis



Quasi Peak

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
132.51	27.9	V	317.0	274.0	17.7	0.7	0.0	30.6	15.9	43.5	-27.7
277.81	26.4	V	15.0	144.0	17.9	1.3	0.0	30.2	15.4	46.0	-30.6
326.65	26.0	V	75.0	319.0	18.8	1.5	0.0	30.1	16.2	46.0	-29.8
397.93	26.1	V	130.0	152.0	20.3	1.7	0.0	30.0	18.3	46.0	-27.8
608.78	25.6	V	19.0	129.0	23.9	1.9	0.0	29.7	21.8	46.0	-24.3
992.36	23.7	V	320.0	356.0	27.9	2.2	0.0	28.7	25.2	54.0	-28.8
QP Value = Raw QP + AF + Loss + DCF - Amp											
Margin = QP Value - Limit											

30-1000MHz – Horizontal – CH165 X-axis



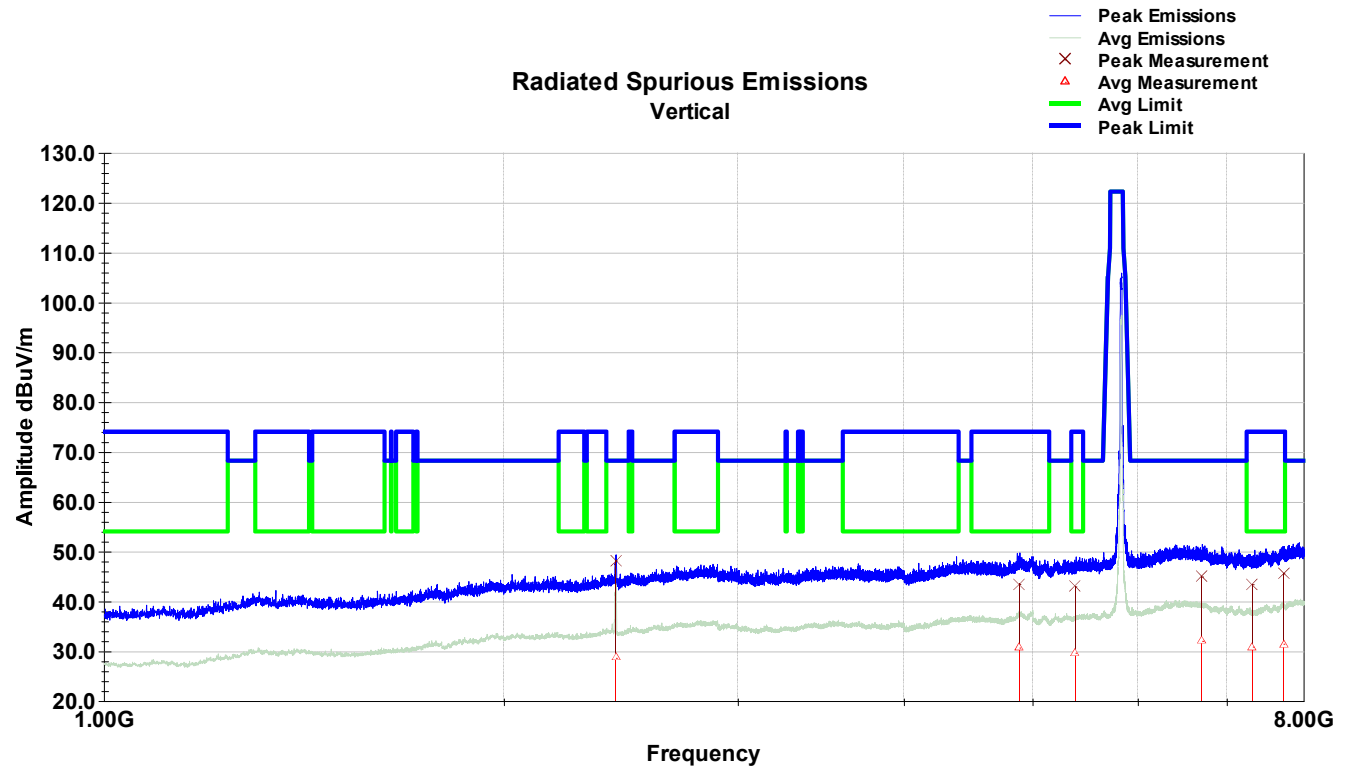
Quasi Peak

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
37.96	29.7	H	332.0	144.0	19.9	0.3	0.0	30.7	19.3	40.0	-20.7
125.10	27.9	H	288.0	354.0	18.0	0.7	0.0	30.6	16.1	43.5	-27.4
401.28	28.7	H	93.0	100.0	20.4	1.7	0.0	30.0	20.9	46.0	-25.1
403.83	28.2	H	92.0	100.0	20.4	1.7	0.0	30.0	20.5	46.0	-25.6
613.80	25.9	H	357.0	325.0	23.9	1.9	0.0	29.8	22.1	46.0	-24.0
982.34	23.4	H	264.0	212.0	27.8	2.2	0.0	28.7	24.7	54.0	-29.3
QP Value = Raw QP + AF + Loss + DCF - Amp											
Margin = QP Value - Limit											

1-8 GHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. Worst case plots shown. Only fundamental frequency is present.

1-8GHz – Vertical – CH165 X-axis



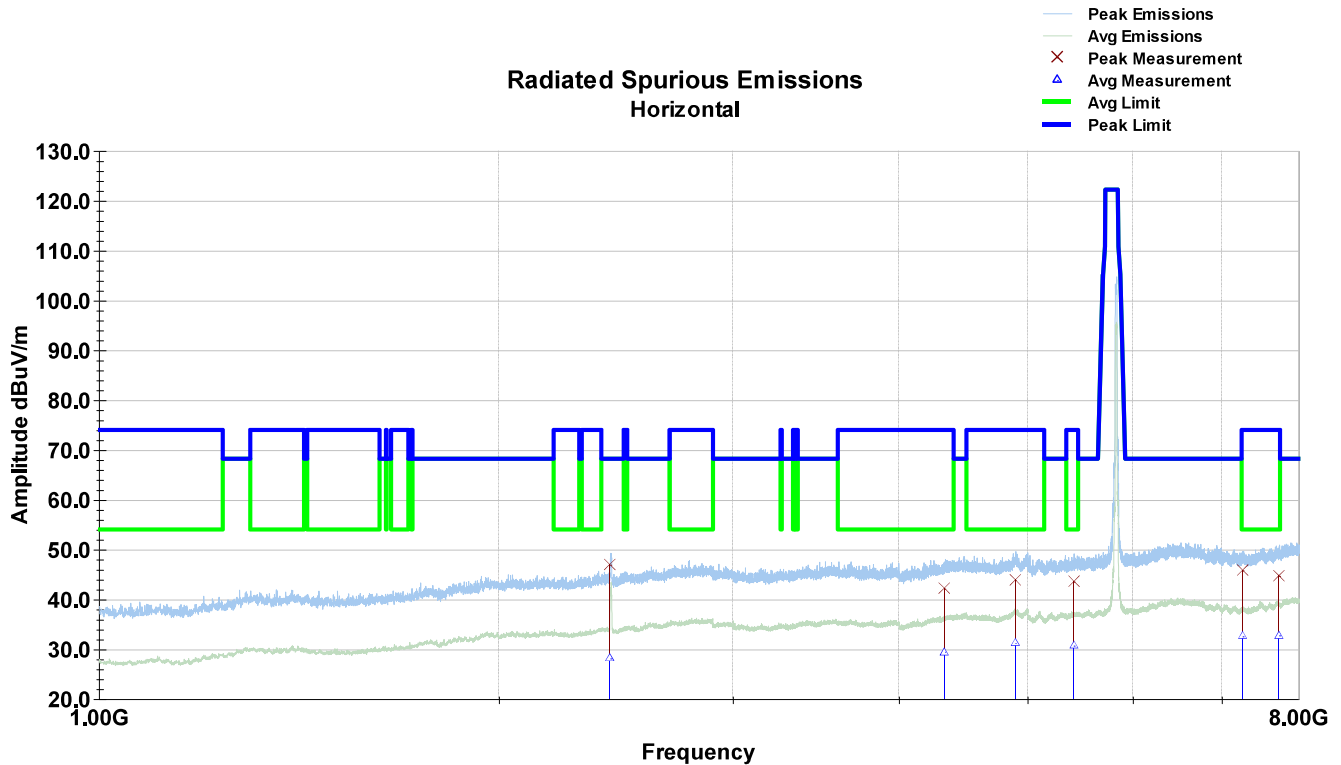
Peak

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
2427.95	48.8	V	312.0	100.0	31.9	1.9	0.0	34.5	48.2	68.2	-20.0
4886.98	40.3	V	251.0	222.0	34.1	3.1	0.0	34.1	43.5	74.0	-30.5
5385.96	39.9	V	39.0	200.0	34.5	2.8	0.0	34.2	43.0	74.0	-31.0
6708.47	40.3	V	108.0	174.0	35.6	3.2	0.0	34.1	45.0	68.2	-23.2
7322.64	39.4	V	92.0	184.0	35.7	3.2	0.0	34.8	43.5	74.0	-30.5
7723.89	40.9	V	260.0	168.0	35.9	3.3	0.0	34.6	45.6	74.0	-28.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Average

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
2427.95	29.3	V	312.0	100.0	31.9	1.9	0.0	34.5	28.7	68.2	-39.5
4886.98	27.6	V	251.0	222.0	34.1	3.1	0.0	34.1	30.8	54.0	-23.2
5385.96	26.6	V	39.0	200.0	34.5	2.8	0.0	34.2	29.7	54.0	-24.3
6708.47	27.4	V	108.0	174.0	35.6	3.2	0.0	34.1	32.1	68.2	-36.1
7322.64	26.9	V	92.0	184.0	35.7	3.2	0.0	34.8	30.9	54.0	-23.1
7723.89	26.8	V	260.0	168.0	35.9	3.3	0.0	34.6	31.5	54.0	-22.5
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

1-8GHz – Horizontal – CH165 X-axis



Peak

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
2425.55	47.6	H	252.0	242.0	31.9	1.9	0.0	34.5	47.0	68.2	-21.2
4334.80	40.1	H	179.0	242.0	33.5	2.6	0.0	34.2	42.1	74.0	-31.9
4896.55	40.6	H	324.0	165.0	34.1	3.2	0.0	34.0	43.9	74.0	-30.1
5415.25	40.3	H	110.0	199.0	34.5	2.9	0.0	34.1	43.6	74.0	-30.4
7258.00	41.4	H	242.0	198.0	35.7	3.2	0.0	34.5	45.8	74.0	-28.2
7732.25	40.1	H	120.0	226.0	35.9	3.3	0.0	34.7	44.7	74.0	-29.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

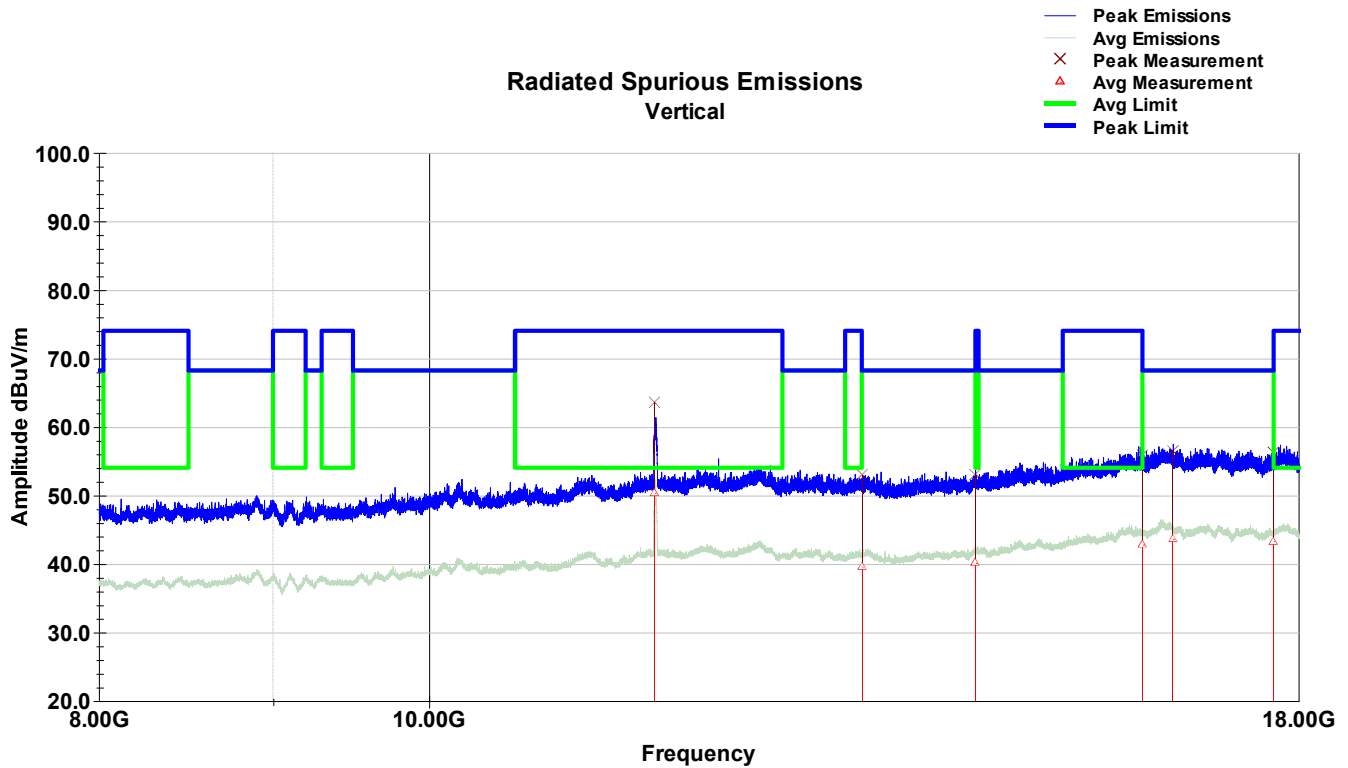
Average

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)
2425.55	28.8	H	252.0	242.0	31.9	1.9	0.0	34.5	28.2	68.2	-40.0
4334.80	27.5	H	179.0	242.0	33.5	2.6	0.0	34.2	29.5	54.0	-24.5
4896.55	28.0	H	324.0	165.0	34.1	3.2	0.0	34.0	31.3	54.0	-22.7
5415.25	27.5	H	110.0	199.0	34.5	2.9	0.0	34.1	30.7	54.0	-23.3
7258.00	28.2	H	242.0	198.0	35.7	3.2	0.0	34.5	32.6	54.0	-21.4
7732.25	28.2	H	120.0	226.0	35.9	3.3	0.0	34.7	32.8	54.0	-21.2
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

8-18 GHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation.

8-18GHz – Vertical – CH165 X-axis



Peak

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)
11651.00	55.2	V	180.0	175.0	39.0	4.4	0.0	35.9	62.7	74.0	-11.3
13403.40	44.8	V	346.0	219.0	39.2	4.5	0.0	36.2	52.4	68.2	-15.8
14469.08	44.4	V	313.0	191.0	39.7	4.6	0.0	36.3	52.4	68.2	-15.8
16202.08	45.1	V	69.0	210.0	40.8	5.1	0.0	36.0	55.0	68.2	-13.2
16532.68	45.3	V	28.0	247.0	41.3	5.1	0.0	36.2	55.5	68.2	-12.7
17703.64	45.7	V	2.0	181.0	40.9	5.3	0.0	36.5	55.5	74.0	-18.5

Final Pk = Raw Pk + AF + Loss + DCF - Amp

Margin = Final Pk - Limit

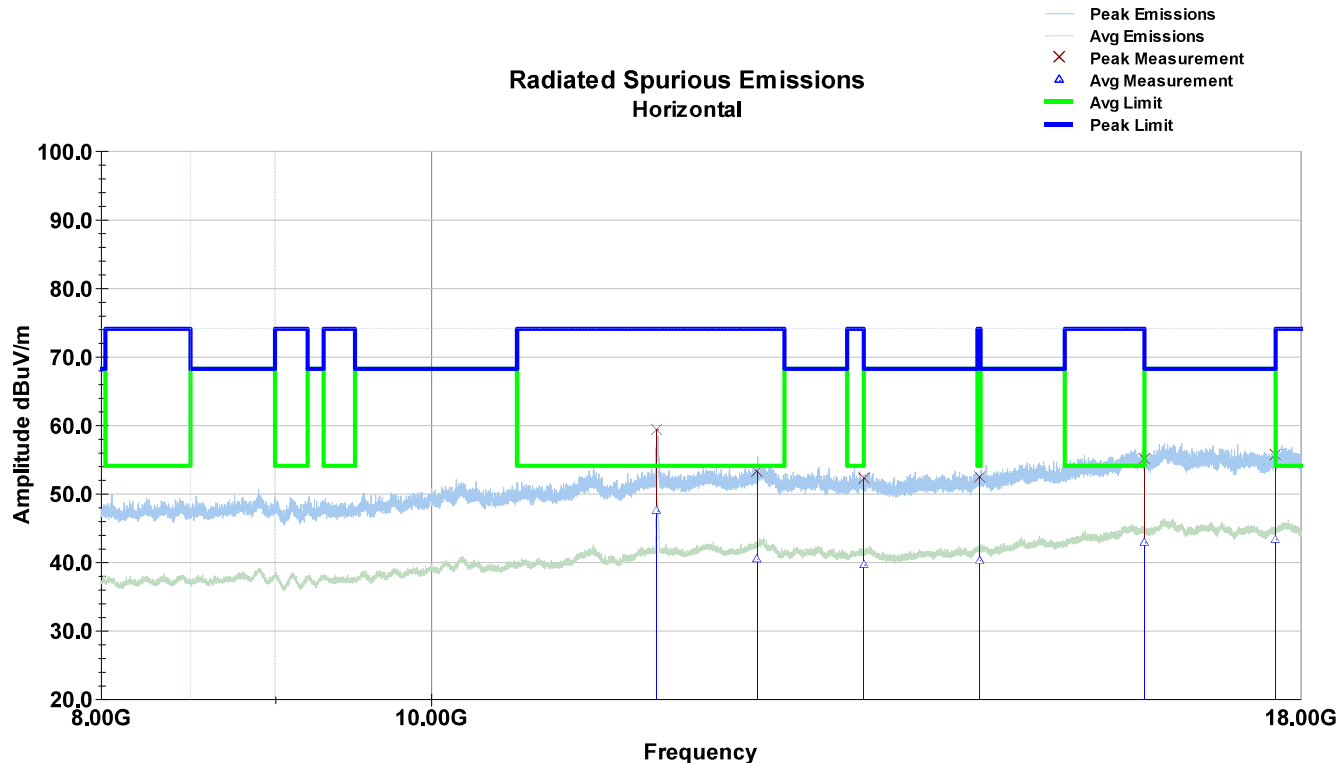
Average

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
11651.00	42.0	V	180.0	175.0	39.0	4.4	0.0	35.9	49.5	54.0	-4.5
13403.40	31.4	V	346.0	219.0	39.2	4.5	0.0	36.2	39.0	68.2	-29.2
14469.08	31.6	V	313.0	191.0	39.7	4.6	0.0	36.3	39.6	68.2	-28.6
16202.08	32.1	V	69.0	210.0	40.8	5.1	0.0	36.0	42.0	68.2	-26.2
16532.68	32.6	V	28.0	247.0	41.3	5.1	0.0	36.2	42.8	68.2	-25.4
17703.64	32.7	V	2.0	181.0	40.9	5.3	0.0	36.5	42.5	54.0	-11.5

Final Avg = Raw Avg + AF + Loss + DCF - Amp

Margin = Final Avg - Limit

8-18GHz – Horizontal – CH165 X-axis



Peak

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
11650.00	51.0	H	80.0	112.0	38.9	4.4	0.0	35.9	58.6	74.0	-15.4
12467.00	44.1	H	107.0	209.0	39.2	4.5	0.0	35.7	52.1	74.0	-21.9
13400.00	44.1	H	195.0	173.0	39.2	4.5	0.0	36.2	51.7	68.2	-16.5
14490.00	43.8	H	102.0	245.0	39.8	4.7	0.0	36.5	51.8	74.0	-22.2
16200.00	44.2	H	0.0	209.0	40.8	5.1	0.0	36.0	54.2	68.2	-14.0
17700.00	45.0	H	180.0	100.0	40.9	5.3	0.0	36.5	54.8	68.2	-13.4
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

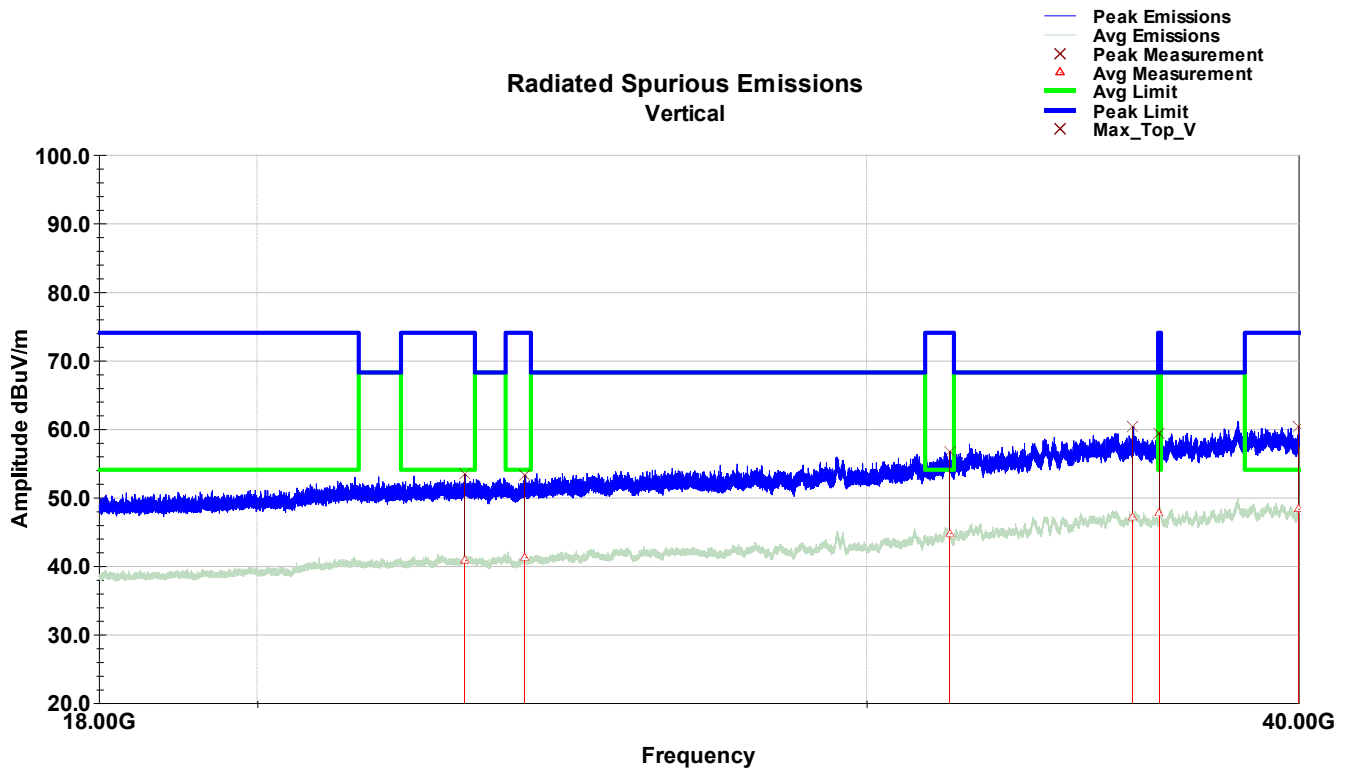
Average

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)
11650.00	39.2	H	80.0	112.0	38.9	4.4	0.0	35.9	46.7	54.0	-7.3
12467.00	31.5	H	107.0	209.0	39.2	4.5	0.0	35.7	39.4	54.0	-14.6
13400.00	31.5	H	195.0	173.0	39.2	4.5	0.0	36.2	39.0	68.2	-29.2
14490.00	31.7	H	102.0	245.0	39.8	4.7	0.0	36.5	39.6	54.0	-14.4
16200.00	32.1	H	0.0	209.0	40.8	5.1	0.0	36.0	42.1	68.2	-26.1
17700.00	32.7	H	180.0	100.0	40.9	5.3	0.0	36.5	42.5	68.2	-25.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz

- This frequency range does not show any significant difference between different EUT orientations. Worst case plots shown. Emissions are noise floor related.

18-40GHz – Vertical – CH165 X-axis (1m distance)



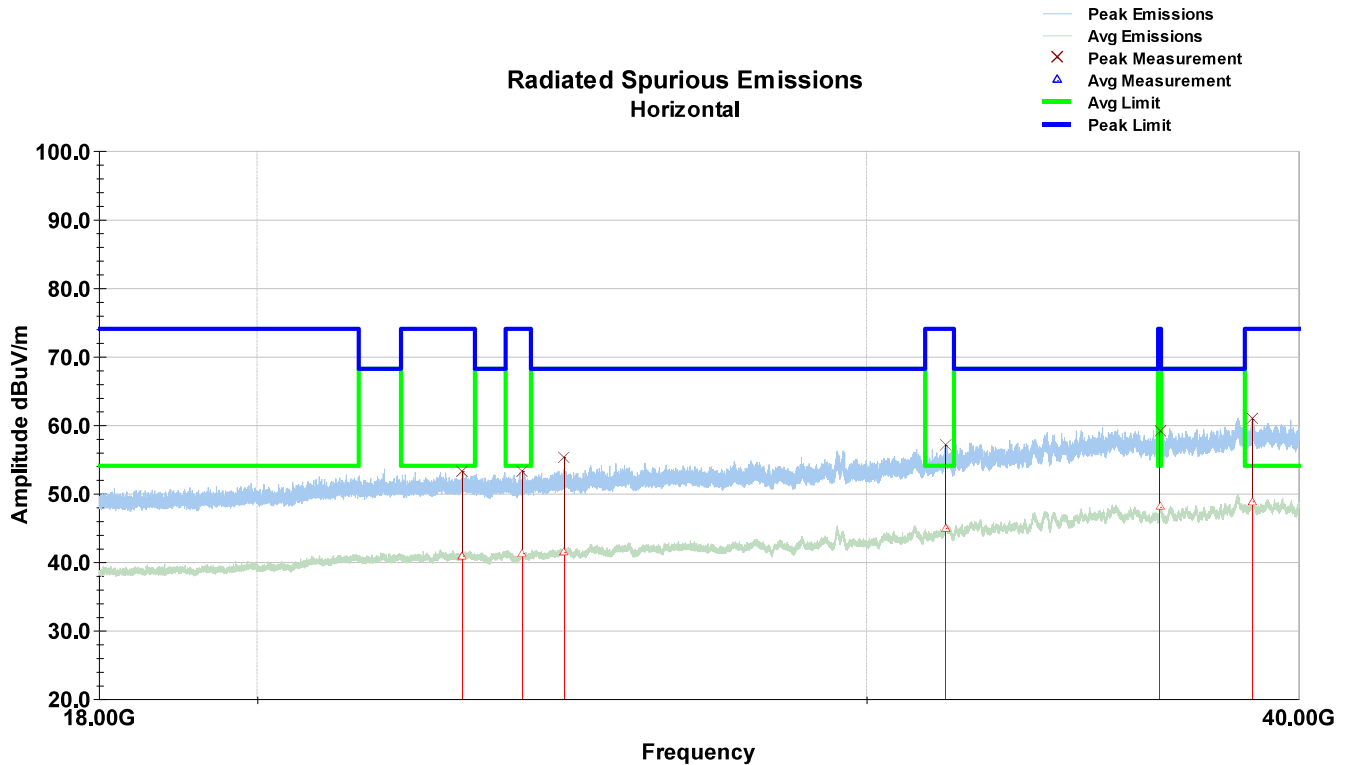
Peak

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
22964.96	57.0	V	142.0	248.0	45.7	10.2	-9.5	50.1	53.4	74.0	-20.7
23903.48	56.7	V	28.0	200.0	45.7	10.3	-9.5	50.0	53.2	74.0	-20.8
31708.20	54.2	V	178.0	100.0	47.5	12.0	-9.5	47.5	56.7	74.0	-17.3
35827.48	58.5	V	106.0	248.0	48.6	13.2	-9.5	50.5	60.4	68.2	-7.8
36469.44	56.7	V	33.0	200.0	48.8	13.2	-9.5	49.9	59.3	74.0	-14.7
39989.44	55.6	V	9.0	150.0	49.3	14.0	-9.5	49.1	60.4	74.0	-13.7
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Average

Frequency MHz	Raw Ave 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
22964.96	44.5	V	142.0	248.0	45.8	10.2	-9.5	50.1	40.9	54.0	-13.1
23903.48	44.8	V	28.0	200.0	45.7	10.3	-9.5	50.0	41.3	54.0	-12.7
31708.20	42.3	V	178.0	100.0	47.5	12.1	-9.5	47.5	44.8	54.0	-9.2
35827.48	45.3	V	106.0	248.0	48.7	13.2	-9.5	50.5	47.2	68.2	-21.0
36469.44	45.2	V	33.0	200.0	48.8	13.2	-9.5	49.9	47.8	54.0	-6.2
39989.44	43.6	V	9.0	150.0	49.3	14.0	-9.5	49.1	48.3	54.0	-5.7
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz – Horizontal – CH165 X-axis (1m distance)



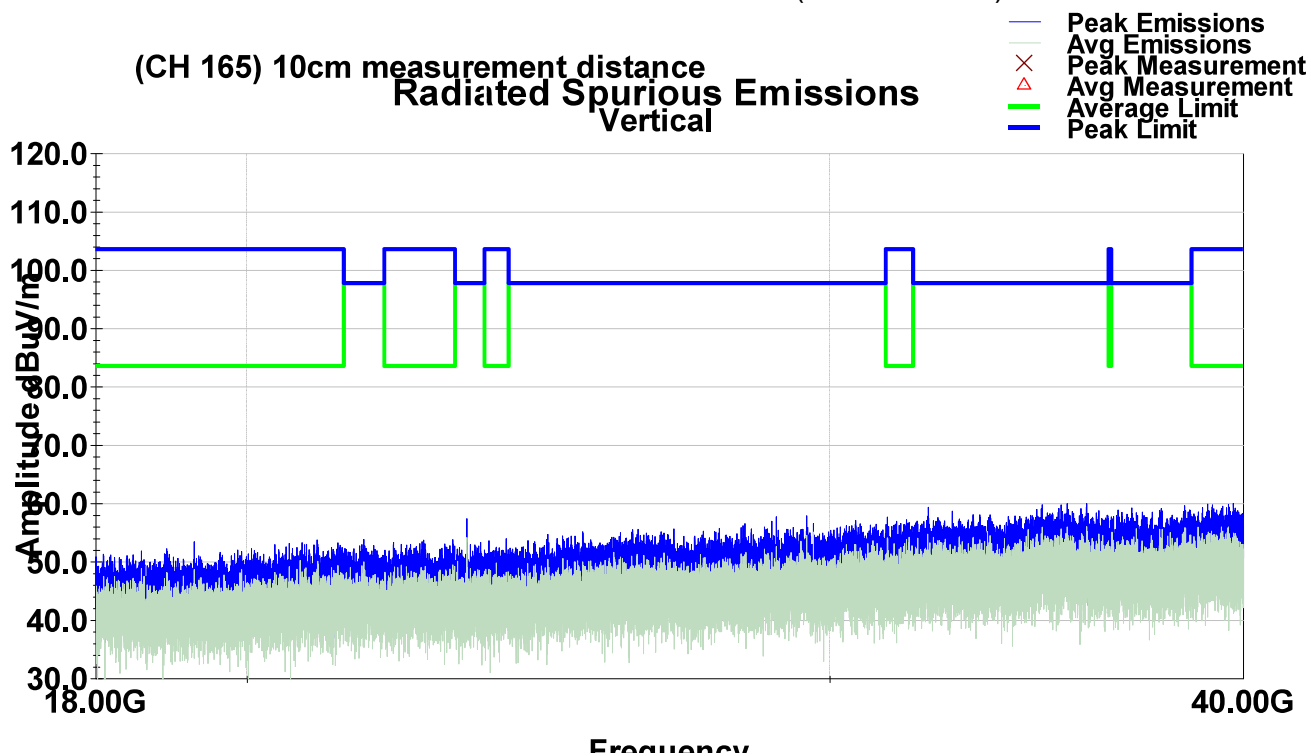
Peak

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
22929.32	57.0	H	308.0	100.0	45.8	10.2	-9.5	50.2	53.3	74.0	-20.7
23866.96	56.8	H	91.0	247.0	45.7	10.3	-9.5	49.9	53.3	74.0	-20.7
24531.80	58.8	H	347.0	200.0	45.8	10.6	-9.5	50.4	55.3	68.2	-12.9
31622.40	54.1	H	108.0	100.0	47.4	12.0	-9.5	46.9	57.1	74.0	-16.9
36476.48	56.5	H	45.0	150.0	48.8	13.2	-9.5	50.0	59.1	74.0	-14.9
38786.92	57.8	H	65.0	150.0	49.0	13.7	-9.5	50.1	60.9	74.0	-13.1
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

Average

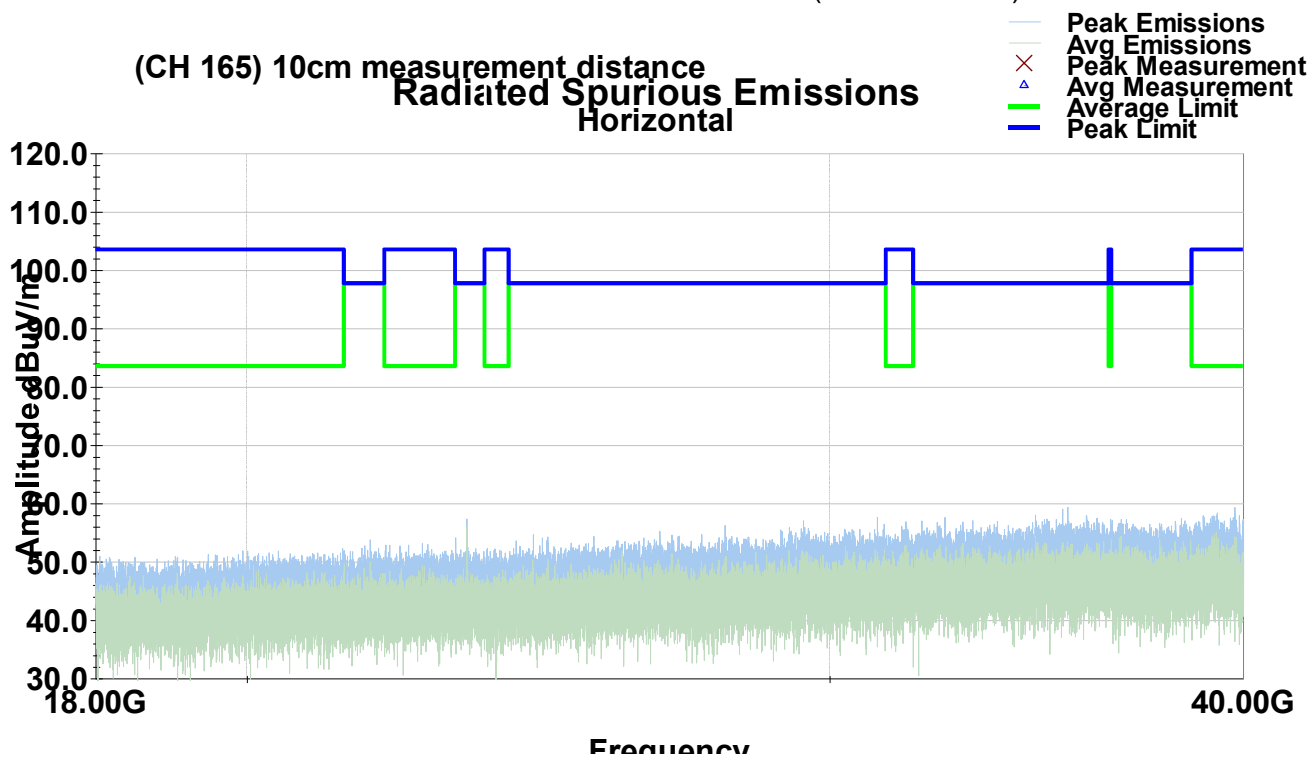
Frequency MHz	Raw Ave dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
22929.32	44.6	H	308.0	100.0	45.8	10.2	-9.5	50.2	40.9	54.0	-13.1
23866.96	44.8	H	91.0	247.0	45.7	10.3	-9.5	49.9	41.3	54.0	-12.7
24531.80	44.9	H	347.0	200.0	45.8	10.6	-9.5	50.4	41.5	68.2	-26.8
31622.40	42.0	H	108.0	100.0	47.4	12.0	-9.5	46.9	45.0	54.0	-9.0
36476.48	45.5	H	45.0	150.0	48.8	13.2	-9.5	50.0	48.1	54.0	-5.9
38786.92	45.8	H	65.0	150.0	49.0	13.7	-9.5	50.1	48.9	54.0	-5.1
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

18-40GHz – Vertical – CH165 X-axis (10cm distance)



Note: To verify compliance, measurements were performed at a 10cm distance.

18-40GHz – Horizontal – CH165 X-axis (10cm distance)

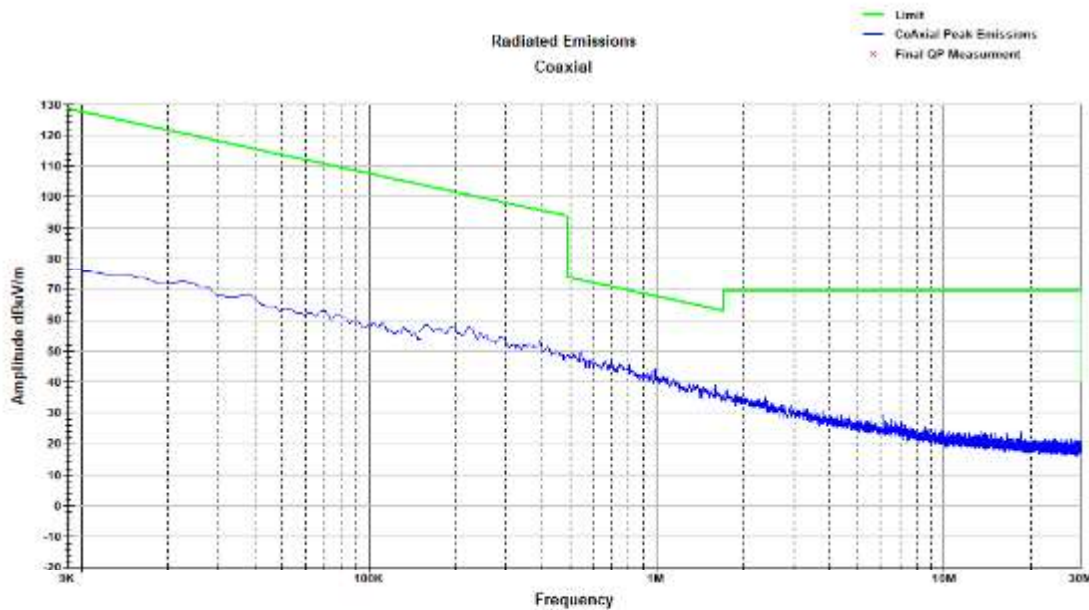


6.11.4 WLAN 802.11ac – MCS7 – OFDM - Antenna 2 - Channel 36

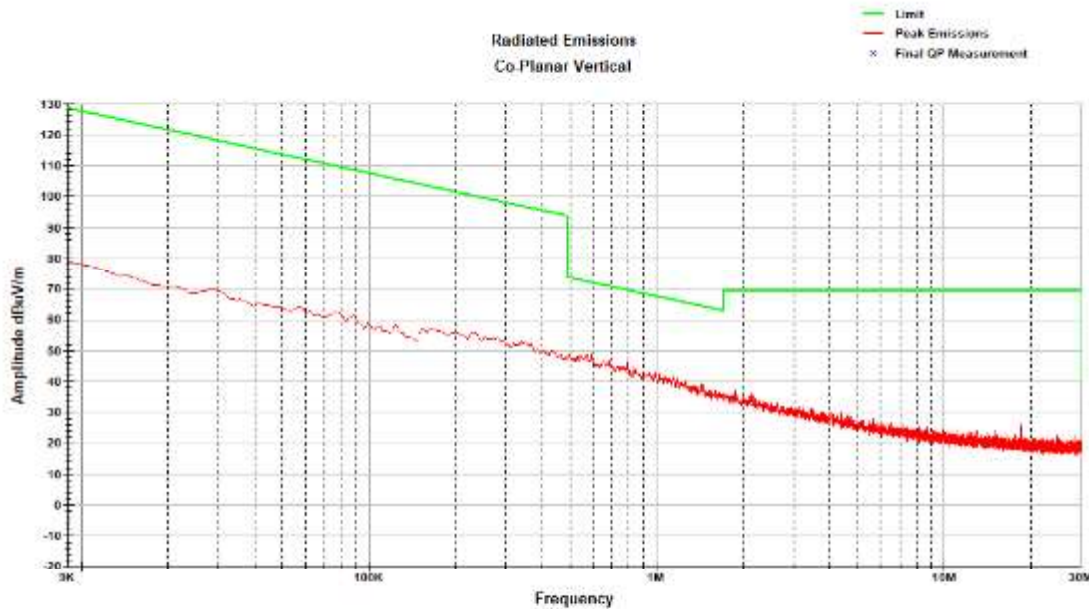
9kHz-30MHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. No unwanted emissions within 20db of the limit. Unintentional emissions are not a part of this evaluation.

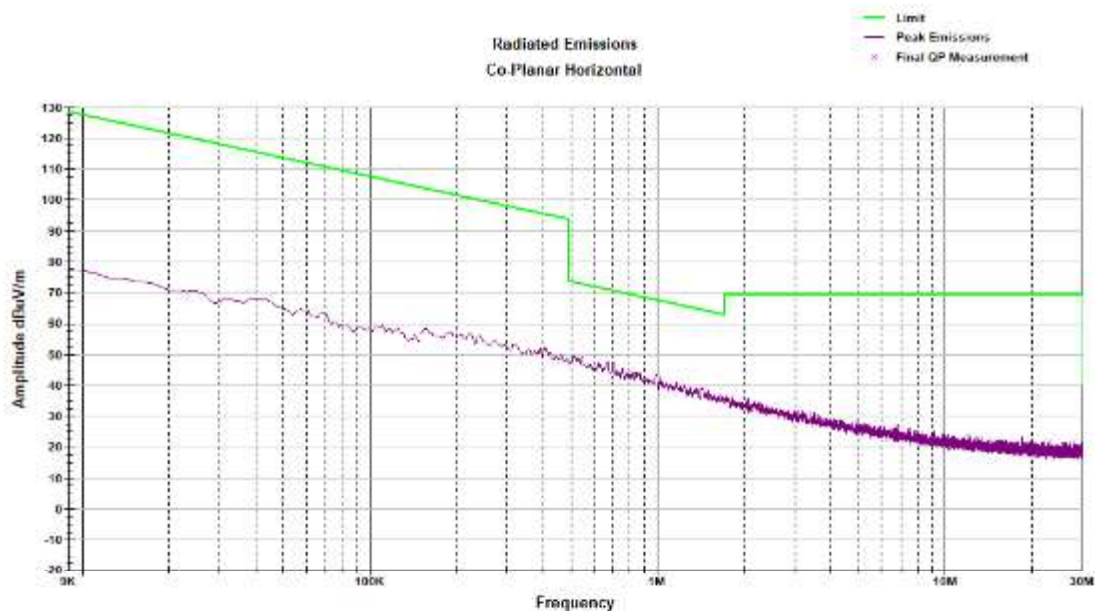
9kHz-30MHz – Vertical – CH36 X-axis



9kHz-30MHz – Co-planar Vertical – CH36 X-axis



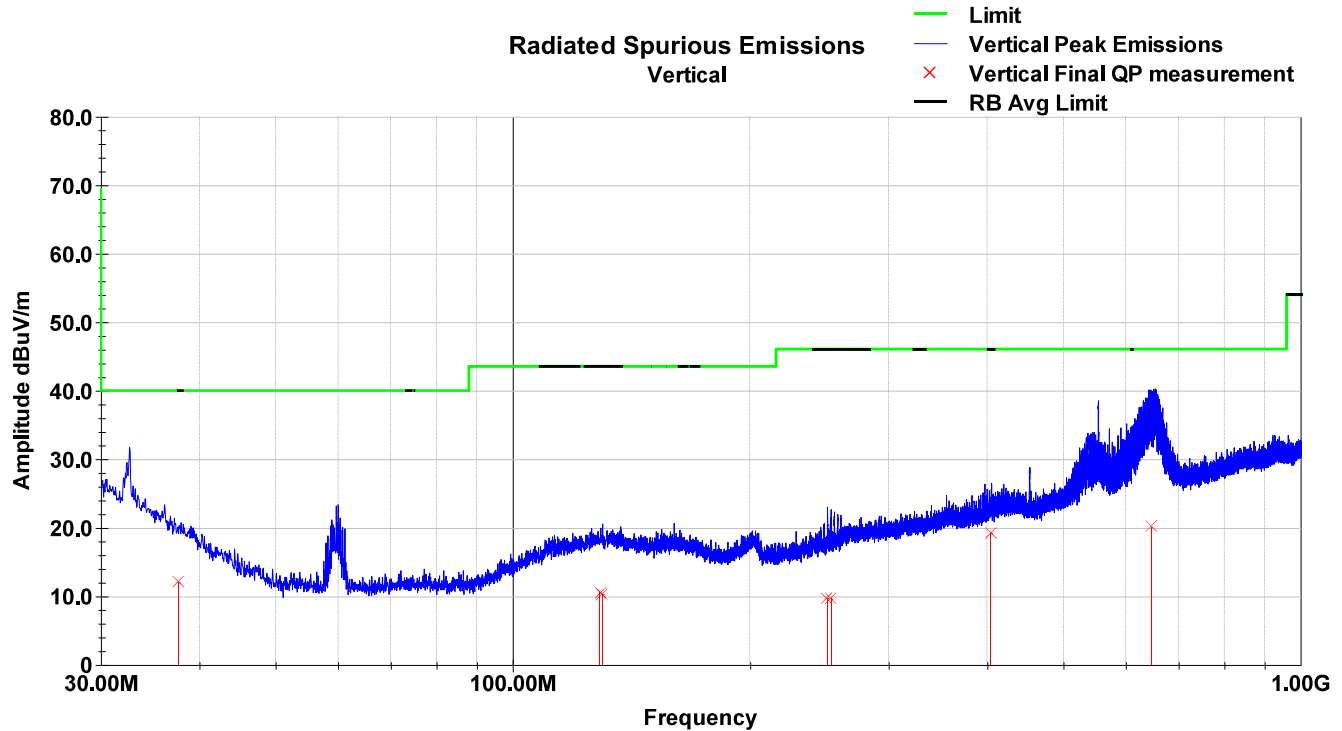
9kHz-30MHz – Co-planar Horizontal – CH36 X-axis



30-1000MHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. No unwanted emissions within 20db of the limit. Unintentional emissions are not a part of this evaluation.

30-1000MHz – Vertical – CH36 X-axis



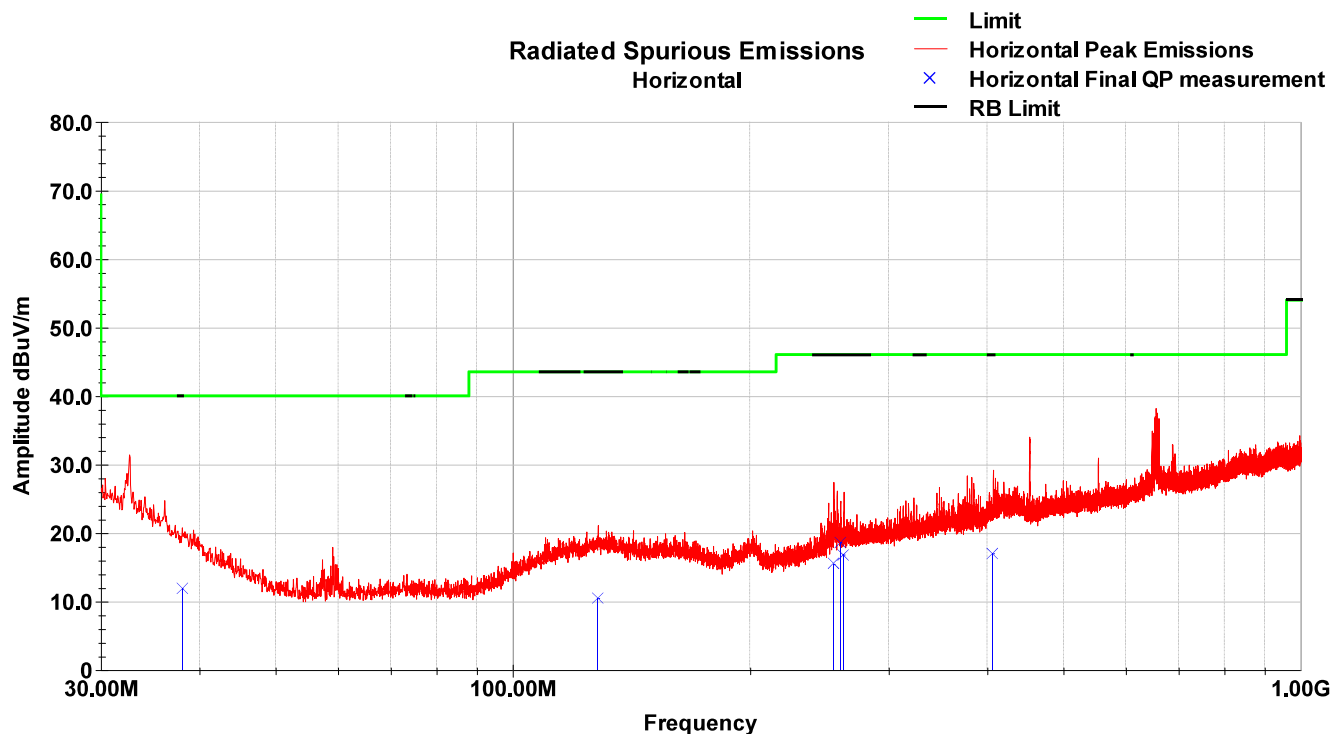
Quasi Peak

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)
37.68	23.1	V	141.0	189.0	20.3	0.6	32.0	12.0	40.0	-28.0
129.08	23.1	V	122.0	115.0	17.8	1.4	31.8	10.6	43.5	-32.9
130.08	22.8	V	199.0	174.0	17.8	1.4	31.8	10.3	43.5	-33.2
250.63	23.0	V	32.0	280.0	16.3	2.1	31.7	9.7	46.0	-36.3
253.68	23.0	V	0.0	278.0	16.2	2.1	31.7	9.7	46.0	-36.4
404.63	27.4	V	278.0	247.0	20.4	2.7	31.4	19.2	46.0	-26.8
647.48	23.5	V	197.0	191.0	24.3	3.5	31.2	20.2	46.0	-25.9

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

30-1000MHz – Horizontal – CH36 X-axis



Quasi Peak

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)
38.08	23.3	H	200.0	230.0	19.9	0.6	32.0	11.9	40.0	-28.1
128.30	23.0	H	150.0	129.0	17.9	1.4	31.8	10.5	43.5	-33.0
255.27	28.7	H	355.0	144.0	16.3	2.1	31.7	15.5	46.0	-30.5
260.50	31.2	H	169.0	159.0	16.9	2.2	31.7	18.7	46.0	-27.4
262.84	29.0	H	359.0	100.0	17.3	2.2	31.7	16.9	46.0	-29.1
406.80	25.2	H	3.0	235.0	20.5	2.7	31.4	17.1	46.0	-29.0

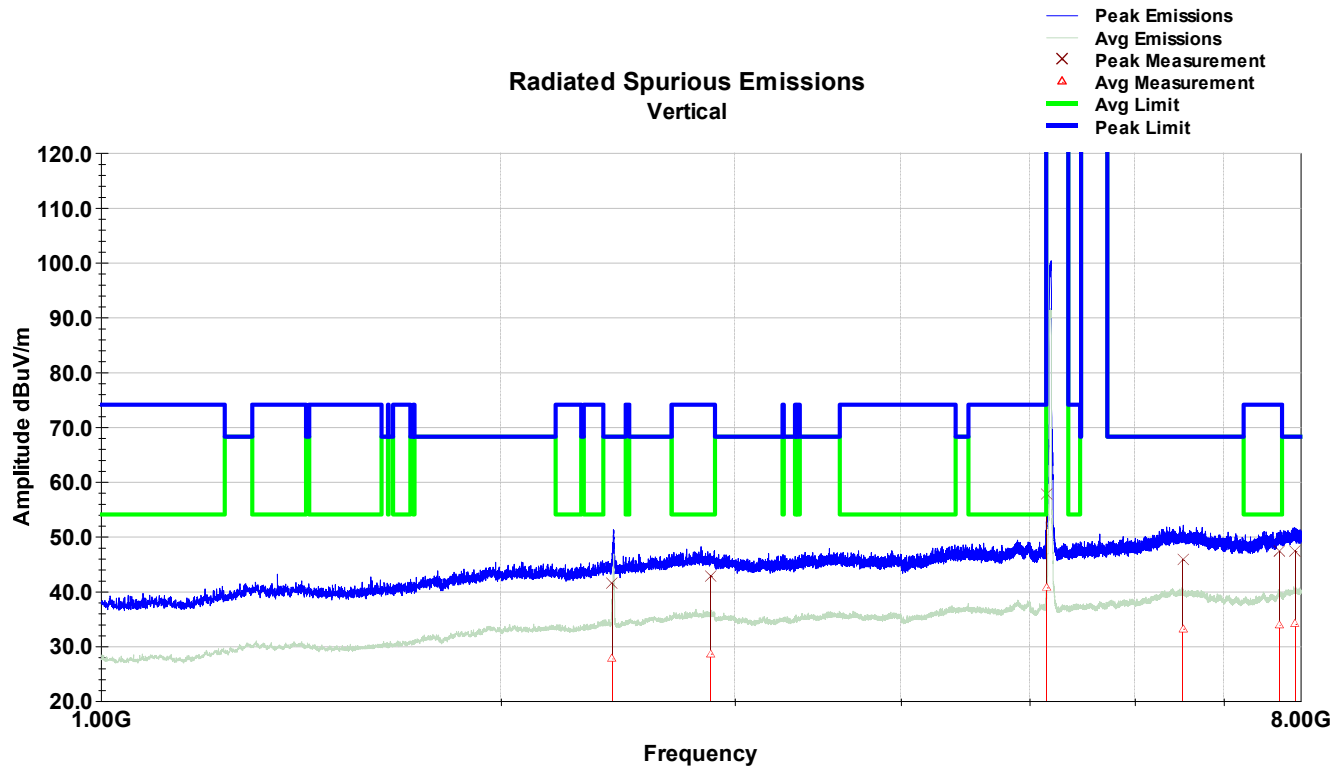
QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

1-8 GHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation. Worst case plots shown. Only fundamental frequency is present.

1-8 GHz – Vertical – CH36 X-axis



Peak

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
2426.45	42.1	V	249.0	156.0	31.9	1.9	0.0	34.5	41.5	68.2	-26.7
2877.17	42.6	V	289.0	101.0	32.4	2.2	0.0	34.4	42.8	74.0	-31.2
5152.85	55.2	V	264.0	151.0	34.2	2.8	0.0	34.6	57.7	122.2	-64.5
6525.39	41.1	V	8.0	194.0	35.6	3.1	0.0	34.1	45.7	68.2	-22.5
7712.27	42.4	V	180.0	249.0	35.9	3.4	0.0	34.4	47.3	74.0	-26.7
7926.76	42.3	V	319.0	237.0	36.0	3.5	0.0	34.5	47.3	68.2	-20.9

Final Pk = Raw Pk + AF + Loss + DCF - Amp

Margin = Final Pk - Limit

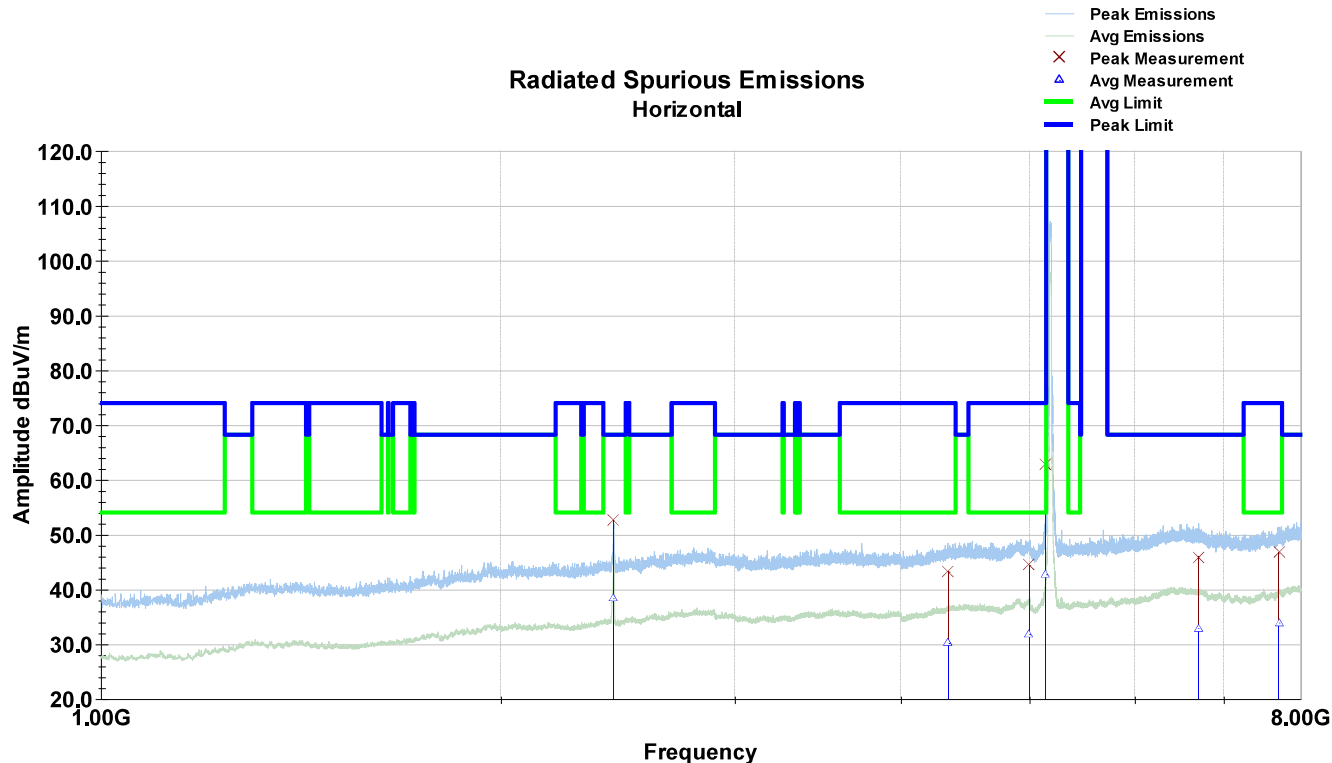
Average

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
2426.45	28.4	V	249.0	156.0	31.9	1.9	0.0	34.5	27.8	68.2	-40.4
2877.17	28.5	V	289.0	101.0	32.4	2.2	0.0	34.4	28.6	54.0	-25.4
5152.85	38.3	V	264.0	151.0	34.2	2.8	0.0	34.6	40.8	122.2	-81.4
6525.39	28.6	V	8.0	194.0	35.6	3.1	0.0	34.1	33.2	68.2	-35.0
7712.27	29.0	V	180.0	249.0	35.9	3.4	0.0	34.4	33.9	54.0	-20.1
7926.76	29.0	V	319.0	237.0	36.0	3.5	0.0	34.5	34.1	68.2	-34.1

Final Avg = Raw Avg + AF + Loss + DCF - Amp

Margin = Final Avg - Limit

1-8 GHz – Horizontal – CH36 X-axis



Peak

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
2430.45	53.2	H	310.0	193.0	31.9	1.9	0.0	34.5	52.6	68.2	-15.6
4345.65	41.2	H	237.0	213.0	33.6	2.6	0.0	34.2	43.3	74.0	-30.7
4997.35	41.2	H	34.0	128.0	34.1	3.0	0.0	33.9	44.4	74.0	-29.6
5146.10	60.2	H	14.0	115.0	34.2	2.9	0.0	34.6	62.7	74.0	-11.3
6699.05	41.3	H	117.0	250.0	35.6	3.2	0.0	34.1	45.9	68.2	-22.3
7708.45	41.8	H	318.0	127.0	35.9	3.4	0.0	34.4	46.7	74.0	-27.3
Final Pk = Raw Pk + AF + Loss + DCF - Amp											
Margin = Final Pk - Limit											

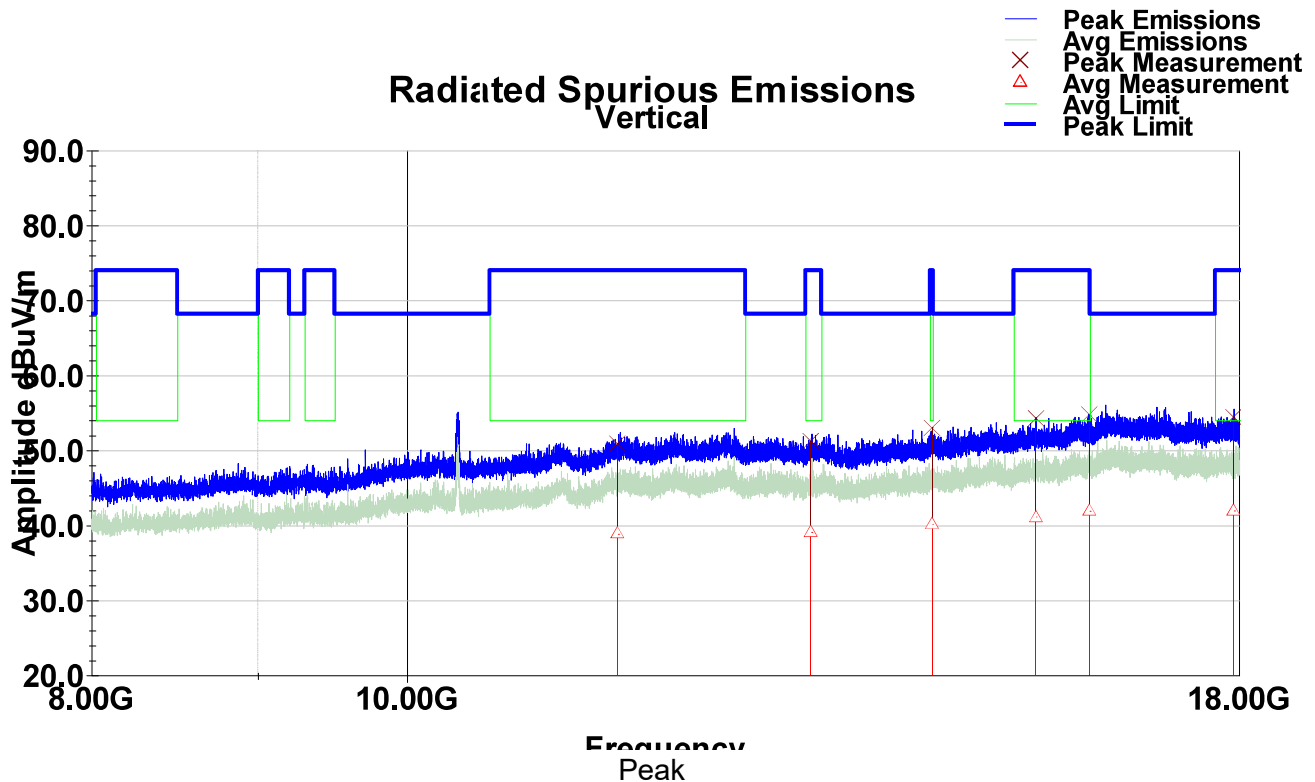
Average

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
2430.45	39.1	H	310.0	193.0	31.9	1.9	0.0	34.5	38.4	68.2	-29.8
4345.65	28.2	H	237.0	213.0	33.6	2.6	0.0	34.2	30.2	54.0	-23.8
4997.35	28.7	H	34.0	128.0	34.1	3.0	0.0	33.9	31.9	54.0	-22.1
5146.10	40.3	H	14.0	115.0	34.2	2.9	0.0	34.6	42.8	54.0	-11.2
6699.05	28.3	H	117.0	250.0	35.6	3.2	0.0	34.1	33.0	68.2	-35.2
7708.45	29.0	H	318.0	127.0	35.9	3.4	0.0	34.4	34.0	54.0	-20.0
Final Avg = Raw Avg + AF + Loss + DCF - Amp											
Margin = Final Avg - Limit											

8-18 GHz

- This frequency range does not show any significant difference between different chains, channels and/or orientation.

8-18GHz – Vertical – CH36 X-axis



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
11605.00	43.3	V	358.0	220.0	38.9	4.5	0.0	35.8	50.9	74.0	-23.1
13303.28	43.5	V	4.0	181.0	39.2	4.5	0.0	36.1	51.1	74.0	-22.9
14496.08	44.7	V	322.0	215.0	39.8	4.7	0.0	36.2	53.1	74.0	-20.9
15597.28	45.1	V	62.0	180.0	40.6	4.9	0.0	36.4	54.2	74.0	-19.8
16195.48	45.2	V	225.0	159.0	40.8	5.1	0.0	36.3	54.7	74.0	-19.3
17934.24	45.2	V	159.0	248.0	41.0	5.5	0.0	37.3	54.3	74.0	-19.7

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

Average

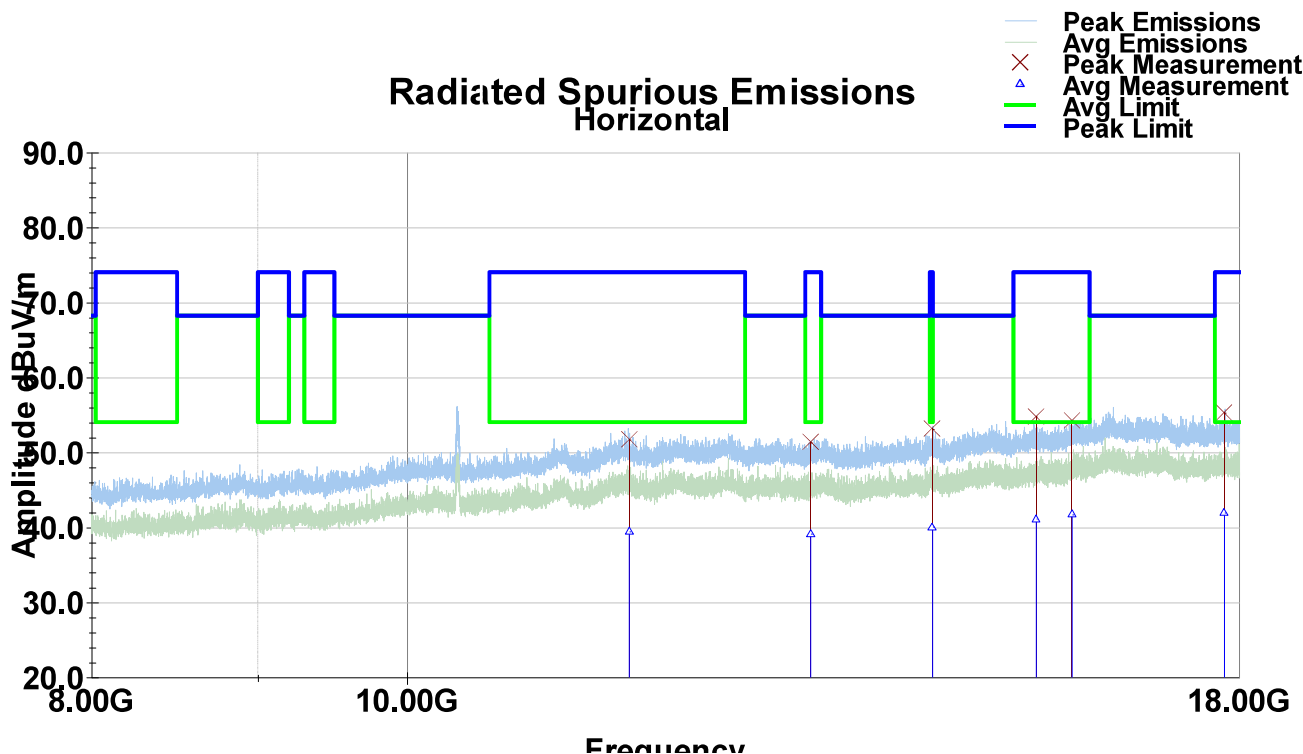
Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	DCF dB	Amp (dB)	Final Avg dBuV/m	Limit (dBuV/m)	Margin (dB)
11605.00	31.3	V	358.0	220.0	38.9	4.5	0.0	35.8	38.9	54.0	-15.1
13303.28	31.5	V	4.0	181.0	39.2	4.5	0.0	36.1	39.1	54.0	-14.8
14496.08	31.9	V	322.0	215.0	39.8	4.7	0.0	36.2	40.2	54.0	-13.8
15597.28	32.0	V	62.0	180.0	40.6	4.9	0.0	36.4	41.2	54.0	-12.8
16195.48	32.3	V	225.0	159.0	40.8	5.1	0.0	36.3	41.9	54.0	-12.1
17934.24	32.8	V	159.0	248.0	41.0	5.5	0.0	37.3	42.0	54.0	-12.0

Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

8-18GHz – Vertical – CH36 X-axis

Radiated Spurious Emissions Horizontal



Peak

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
11700.76	44.0	H	316.0	247.0	39.0	4.6	0.0	35.9	51.7	74.0	-22.3
13301.72	43.7	H	250.0	173.0	39.2	4.5	0.0	36.1	51.3	74.0	-22.7
14498.60	44.8	H	336.0	235.0	39.8	4.8	0.0	36.2	53.1	74.0	-20.9
15600.04	45.6	H	245.0	114.0	40.6	4.9	0.0	36.4	54.8	74.0	-19.2
15998.84	44.5	H	154.0	174.0	40.9	5.1	0.0	36.3	54.2	74.0	-19.8
17816.32	46.2	H	134.0	174.0	41.0	5.3	0.0	37.3	55.3	74.0	-18.7
Final Pk = Raw Pk + AF + Loss - Amp											
Margin = Final Pk - Limit											

Average

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)
11700.76	31.7	H	316.0	247.0	39.0	4.6	0.0	35.9	39.5	54.0	-14.5
13301.72	31.5	H	250.0	173.0	39.2	4.5	0.0	36.1	39.1	54.0	-14.8
14498.60	31.7	H	336.0	235.0	39.8	4.8	0.0	36.2	40.1	54.0	-13.9
15600.04	32.0	H	245.0	114.0	40.6	4.9	0.0	36.4	41.2	54.0	-12.8
15998.84	32.0	H	154.0	174.0	40.9	5.1	0.0	36.3	41.7	54.0	-12.3
17816.32	32.9	H	134.0	174.0	41.0	5.3	0.0	37.3	42.0	54.0	-12.0
Final Avg = Raw Avg + AF + Loss - Amp											
Margin = Final Avg - Limit											