

ANT792-6MN - 802.11b

Testing was performed on the Data Rate which resulted in the highest conducted output power.
 The Data Rate used during testing was 1 Mbps.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.014	30.6	40.0	-9.4	357	1.00	Vertical
37.500	26.9	40.0	-13.1	0	1.00	Vertical
608.000	32.5	46.0	-13.5	84	1.00	Vertical
609.971	38.4	46.0	-7.6	86	1.00	Vertical
614.000	38.4	46.0	-7.6	83	1.00	Vertical
960.000	33.9	46.0	-12.1	231	1.00	Vertical

Table 93 - 2412 MHz - 30 MHz to 1 GHz

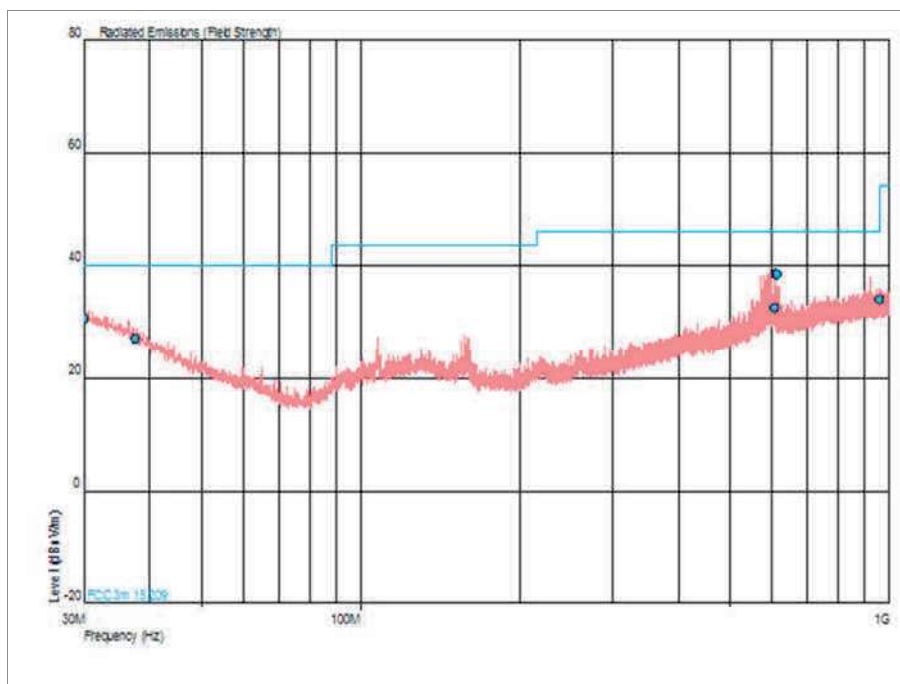


Figure 184 - 2412 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	704.69	331.13	5000.00	500.00	4295.31	168.87
2.250000	661.45	293.76	5000.00	500.00	4338.55	206.24
2.491221	815.64	227.77	5000.00	500.00	4184.36	272.23

Table 94 - 2412 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.

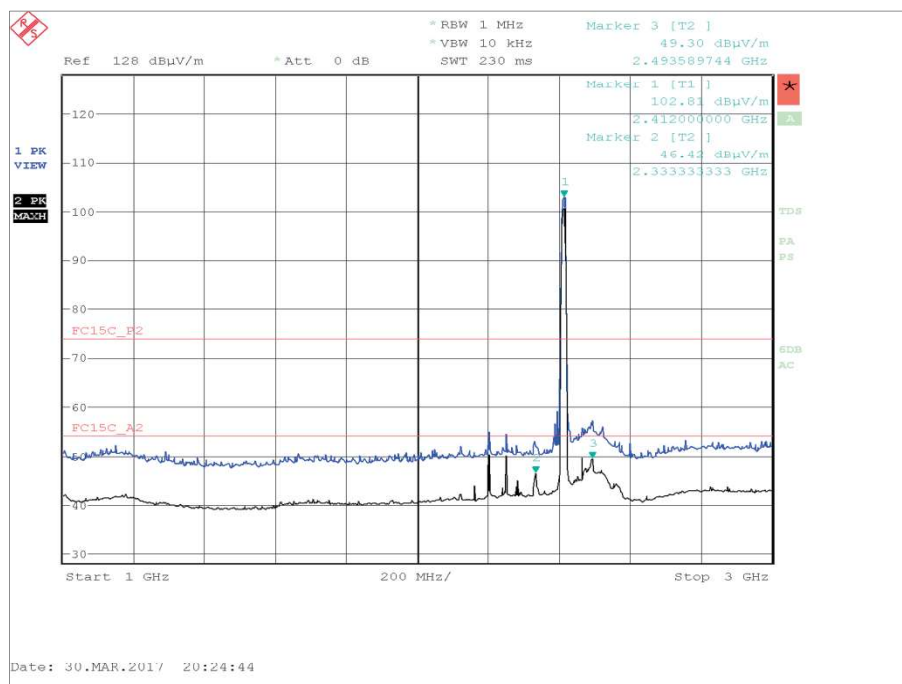


Figure 185 - 2412 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

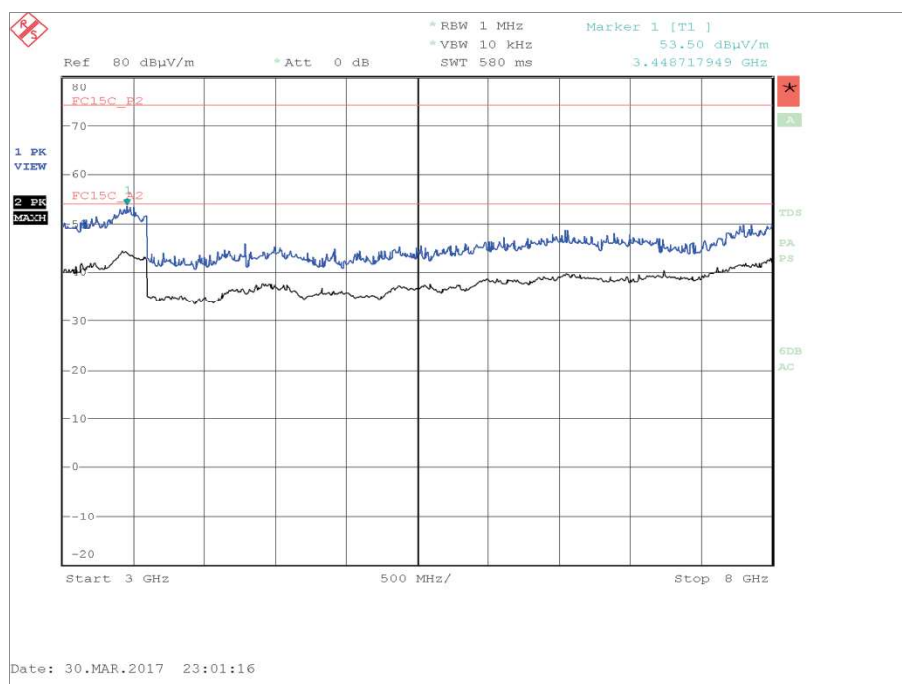


Figure 186 - 2412 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

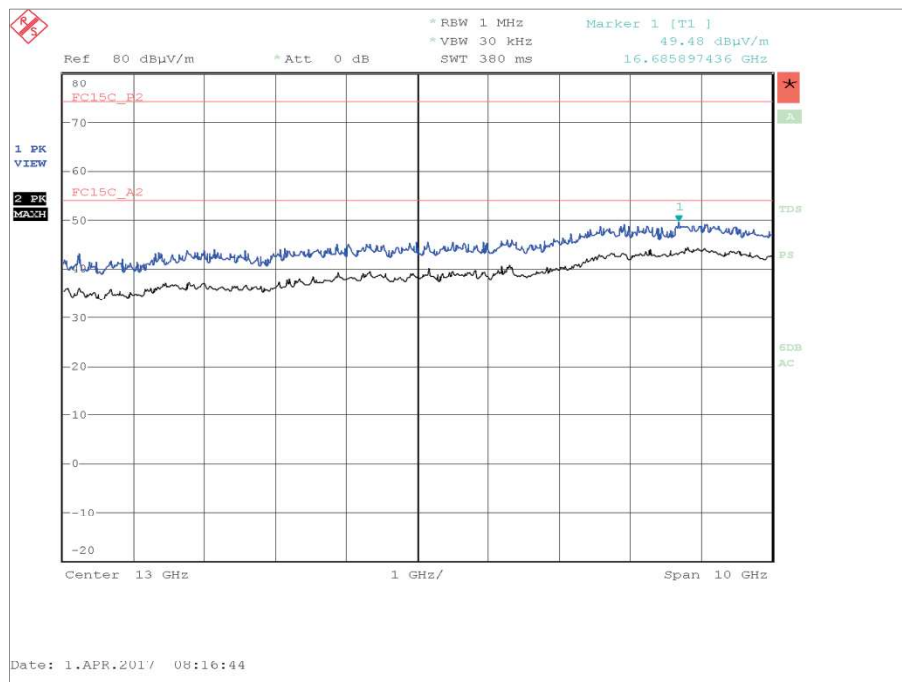


Figure 187 - 2412 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

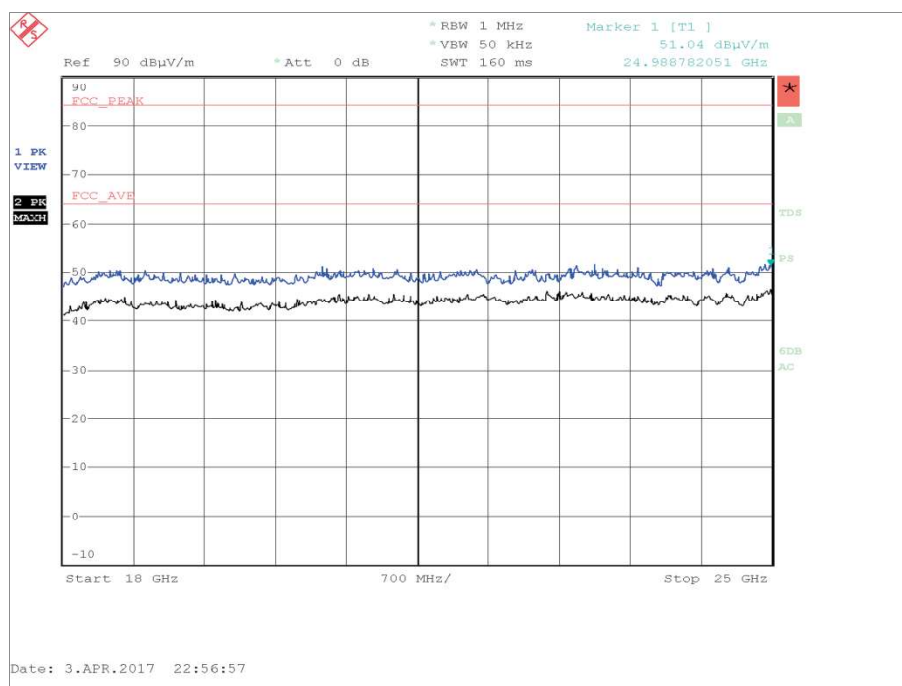


Figure 188 - 2412 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.236	30.5	40.0	-9.5	89	1.00	Horizontal
37.500	26.8	40.0	-13.2	335	1.00	Vertical
608.000	38.4	46.0	-7.6	91	1.00	Vertical
612.635	43.7	46.0	-2.3	80	1.00	Vertical
614.000	40.4	46.0	-5.6	104	1.00	Vertical
960.000	33.9	46.0	-12.1	102	1.00	Vertical

Table 95 - 2437 MHz - 30 MHz to 1 GHz

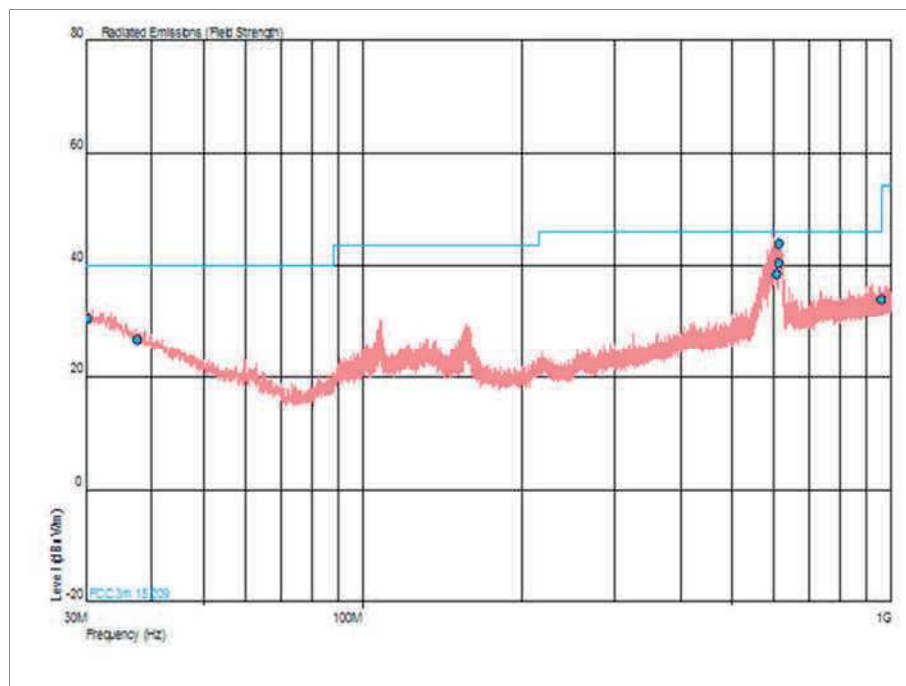


Figure 189 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	770.90	326.96	5000.00	500.00	4229.10	173.04
2.250000	746.45	298.19	5000.00	500.00	4253.55	201.81

Table 96 - 2437 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.

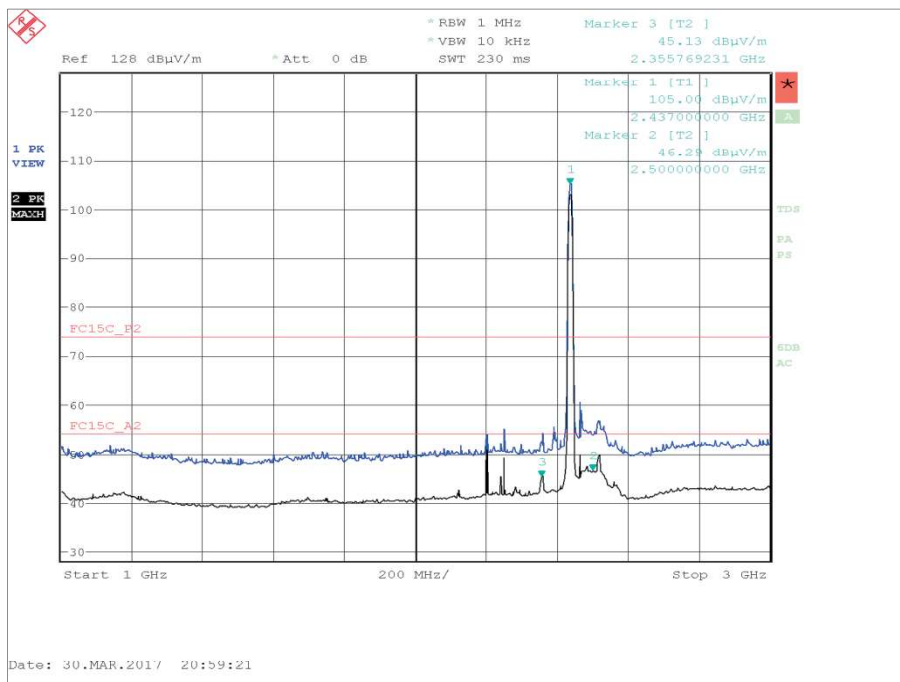


Figure 190 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

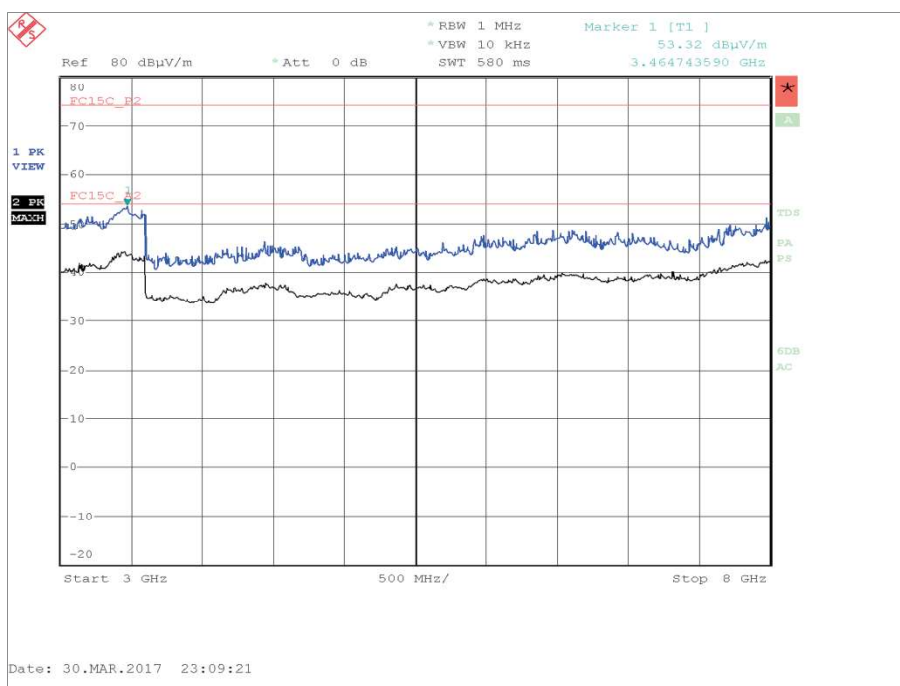


Figure 191 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

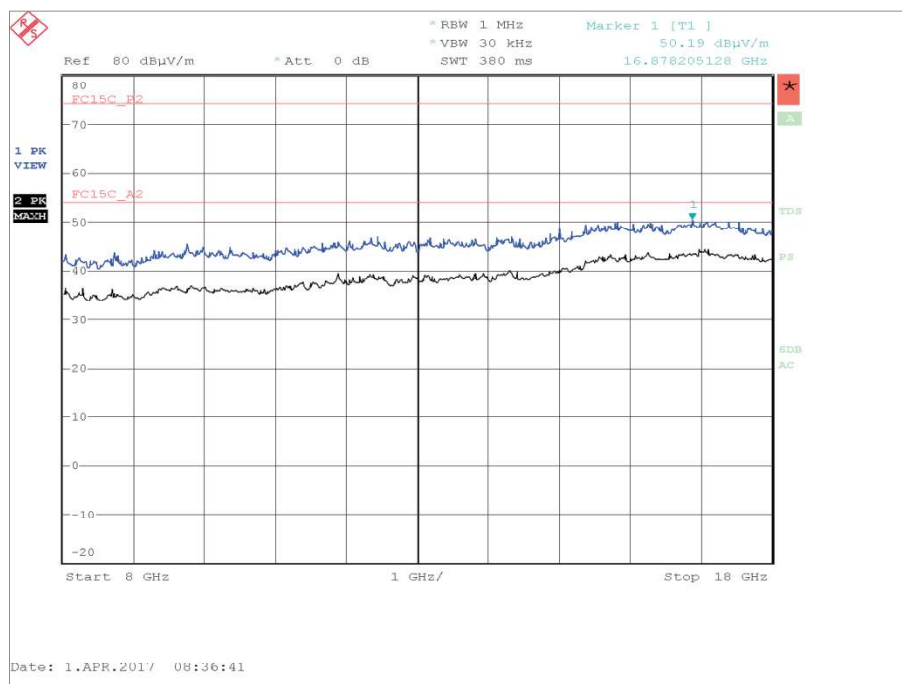


Figure 192 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

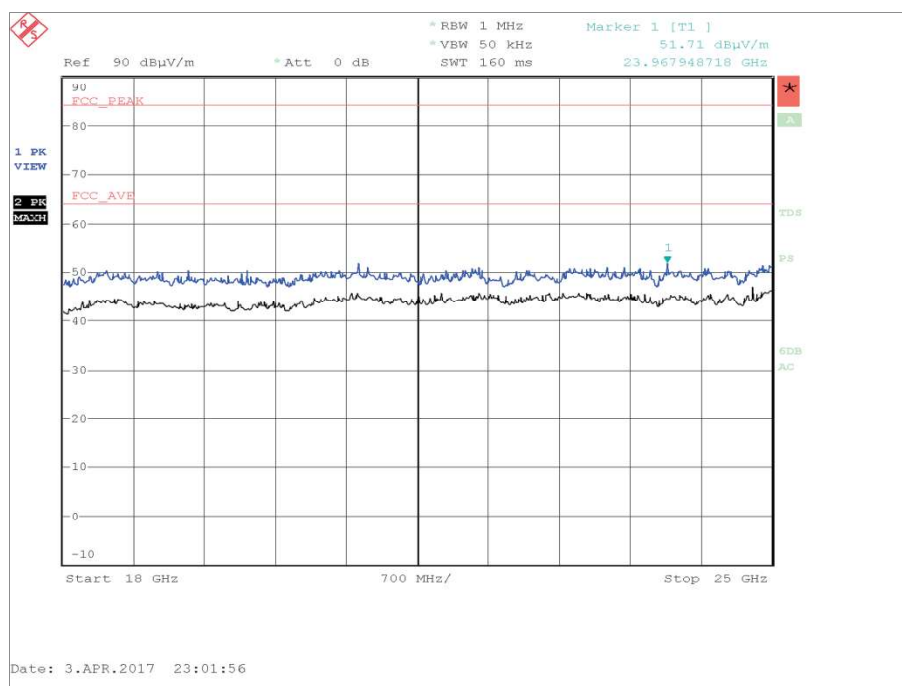


Figure 193 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical



Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.132	30.4	40.0	-9.6	281	1.00	Vertical
37.500	26.9	40.0	-13.1	304	1.00	Vertical
608.000	39.0	46.0	-7.0	70	1.00	Vertical
612.279	42.8	46.0	-3.2	75	1.00	Vertical
614.000	42.6	46.0	-3.4	75	1.00	Vertical
960.000	33.9	46.0	-12.1	202	1.00	Vertical

Table 97 - 2462 MHz - 30 MHz to 1 GHz

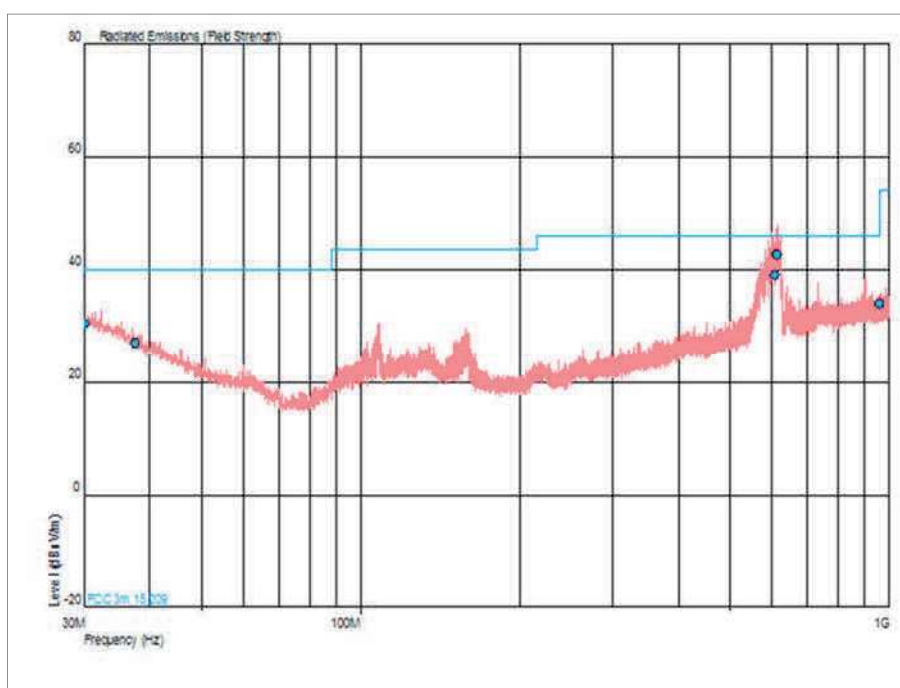


Figure 194 - 2462 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	839.46	421.70	5000.00	500.00	4160.54	78.30
2.250000	743.02	348.34	5000.00	500.00	4256.98	151.66
2.484320	2535.13	179.47	5000.00	500.00	2464.87	320.53

Table 98 - 2462 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.

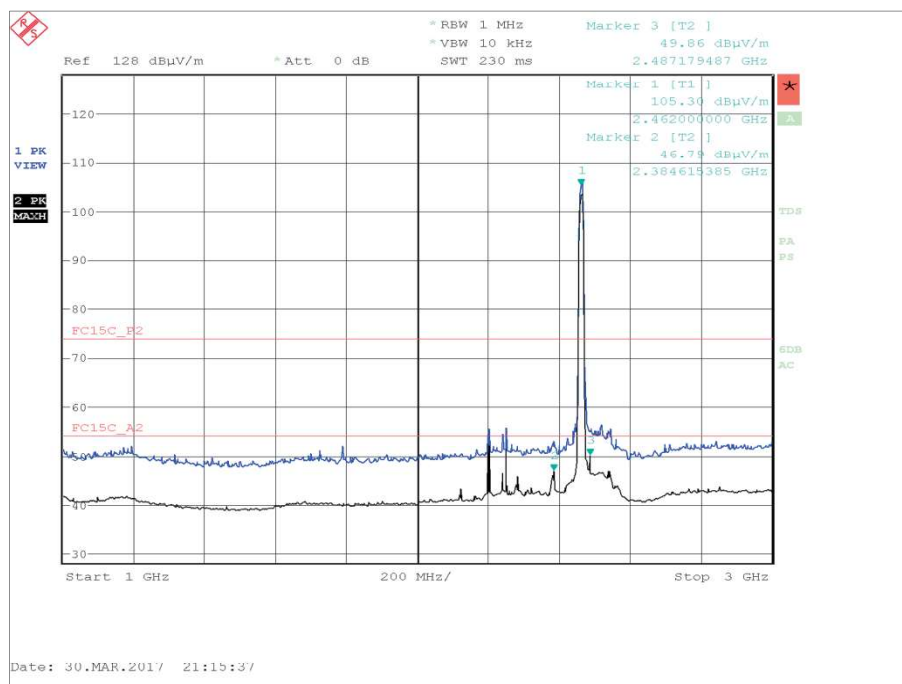


Figure 195 - 2462 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

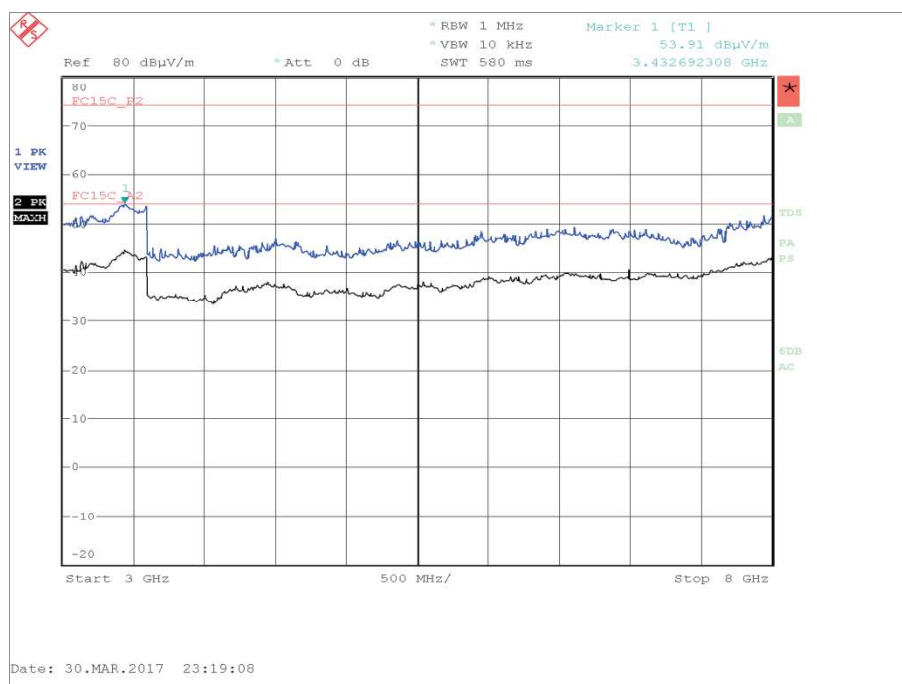


Figure 196 - 2462 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

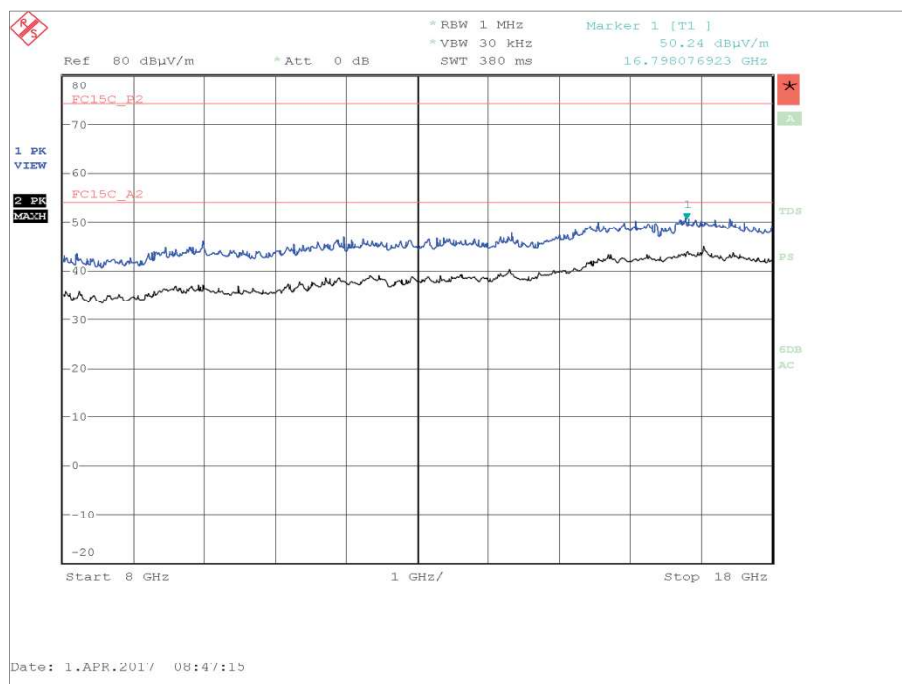


Figure 197 - 2462 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

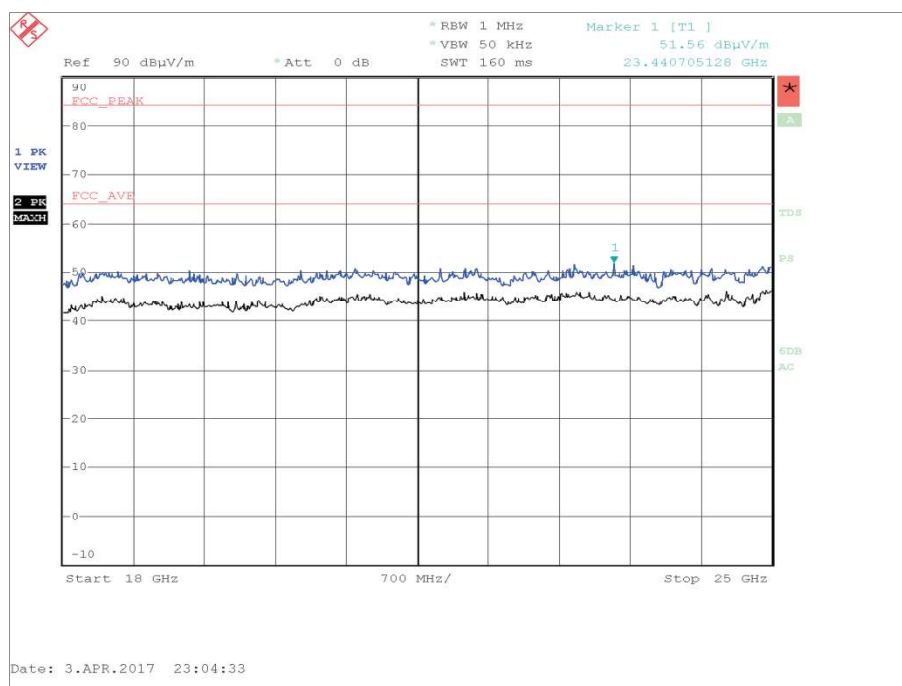


Figure 198 - 2462 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

ANT792-6MN - 802.11g

Testing was performed on the Data Rate which resulted in the highest conducted output power.
The Data Rate used during testing was 6 Mbps.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.149	30.5	40.0	-9.5	311	1.00	Vertical
37.500	26.9	40.0	-13.1	41	1.00	Vertical
608.000	39.3	46.0	-6.7	74	1.00	Vertical
612.587	43.8	46.0	-2.2	80	1.00	Vertical
614.000	43.0	46.0	-3.0	79	1.00	Vertical
960.000	33.9	46.0	-12.1	143	1.00	Vertical

Table 99 - 2412 MHz - 30 MHz to 1 GHz

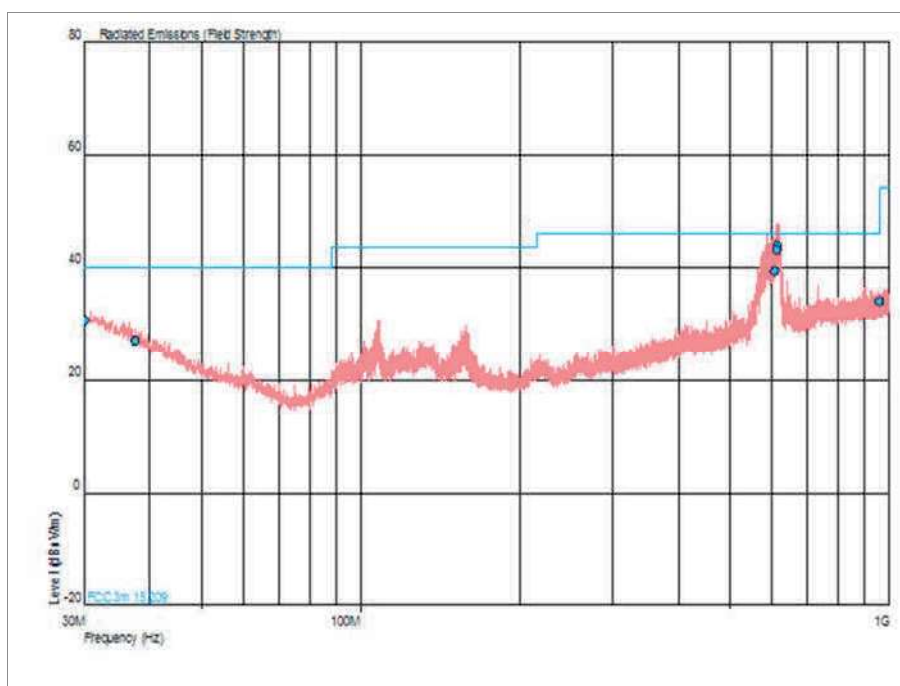


Figure 199 - 2412 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	833.68	418.79	5000.00	500.00	4166.32	81.21
2.250000	854.08	374.54	5000.00	500.00	4145.92	125.46

Table 100 - 2412 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

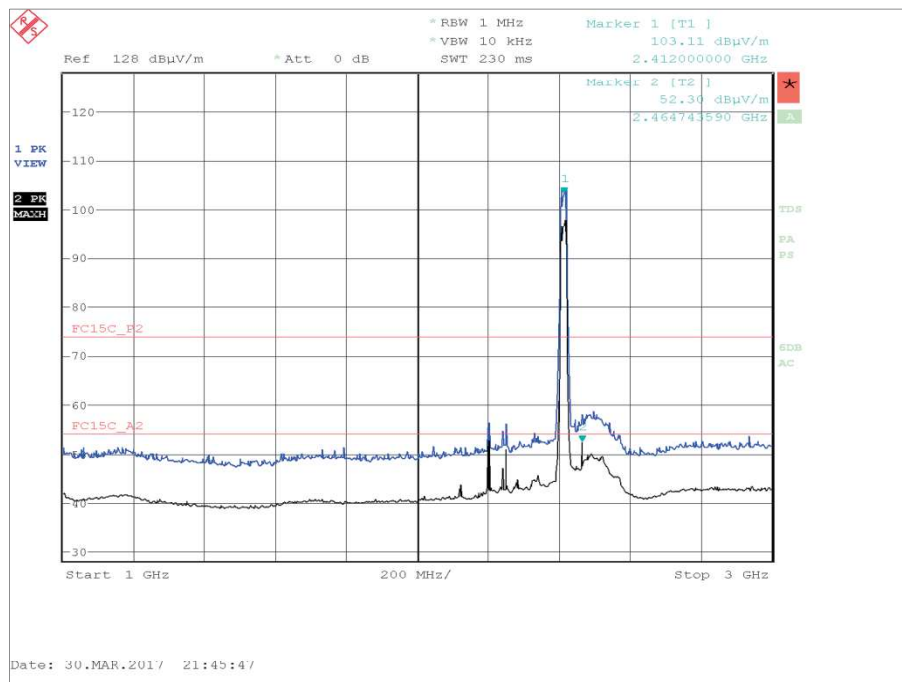


Figure 200 - 2412 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

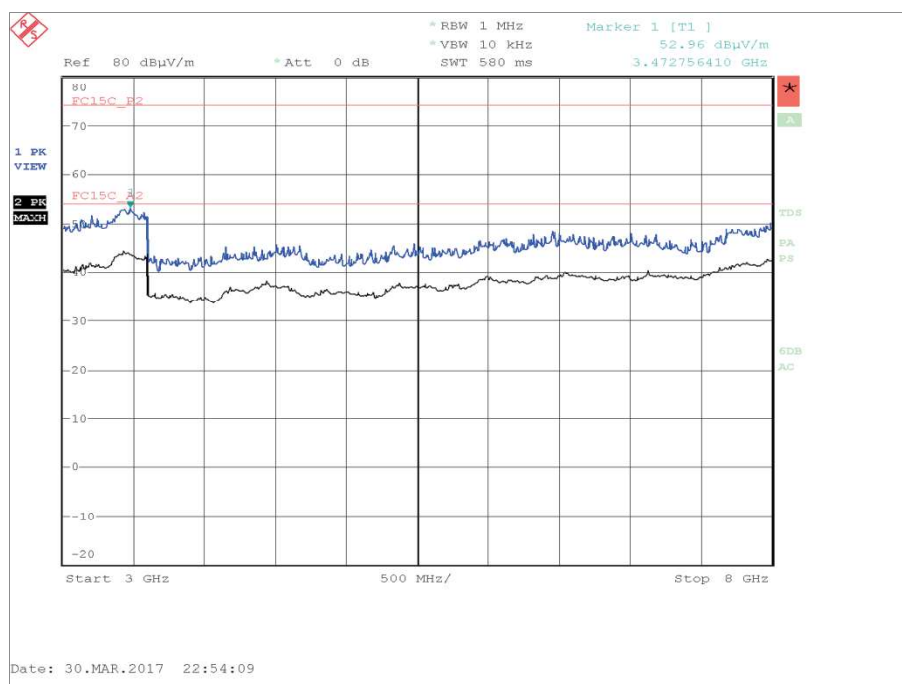


Figure 201 - 2412 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

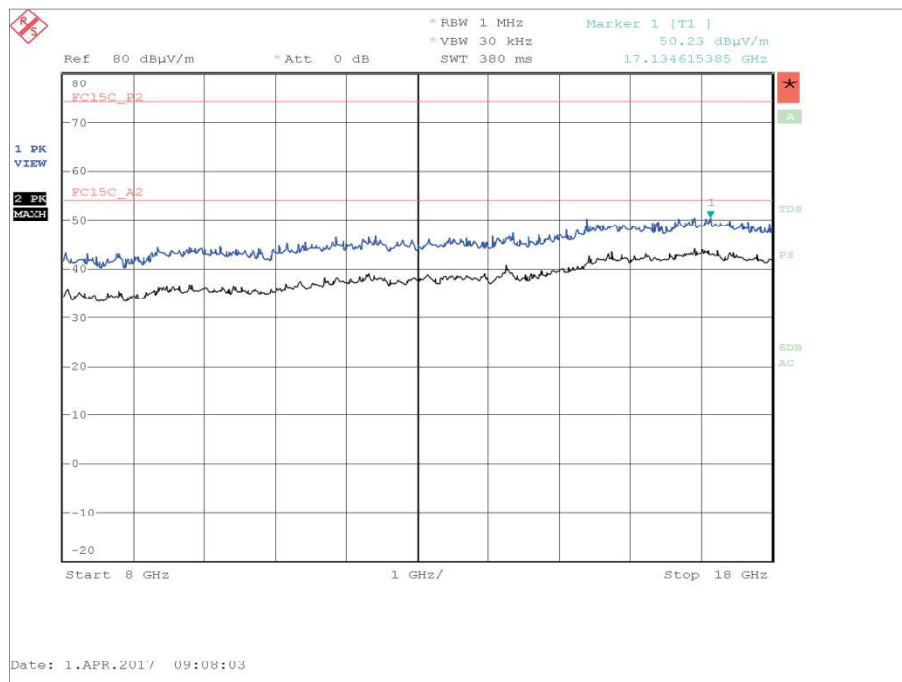


Figure 202 - 2412 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

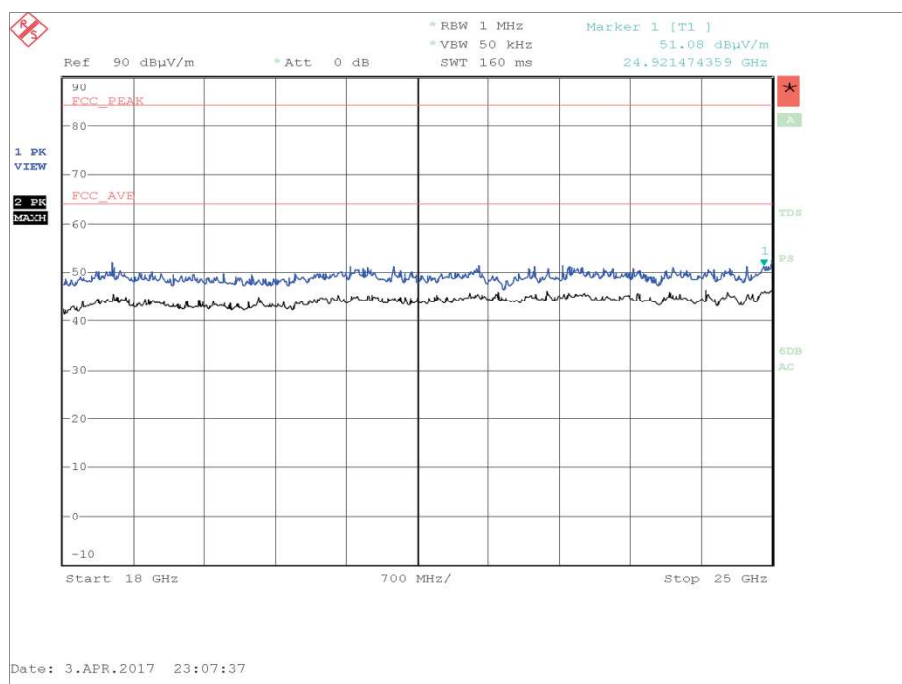


Figure 203 - 2412 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.466	30.2	40.0	-9.8	341	1.00	Vertical
37.500	26.7	40.0	-13.3	340	1.00	Vertical
608.000	38.6	46.0	-7.4	66	1.00	Vertical
612.413	43.7	46.0	-2.3	73	1.00	Vertical
614.000	42.8	46.0	-3.2	80	1.00	Vertical
960.000	33.9	46.0	-12.1	221	1.00	Vertical

Table 101 - 2437 MHz - 30 MHz to 1 GHz

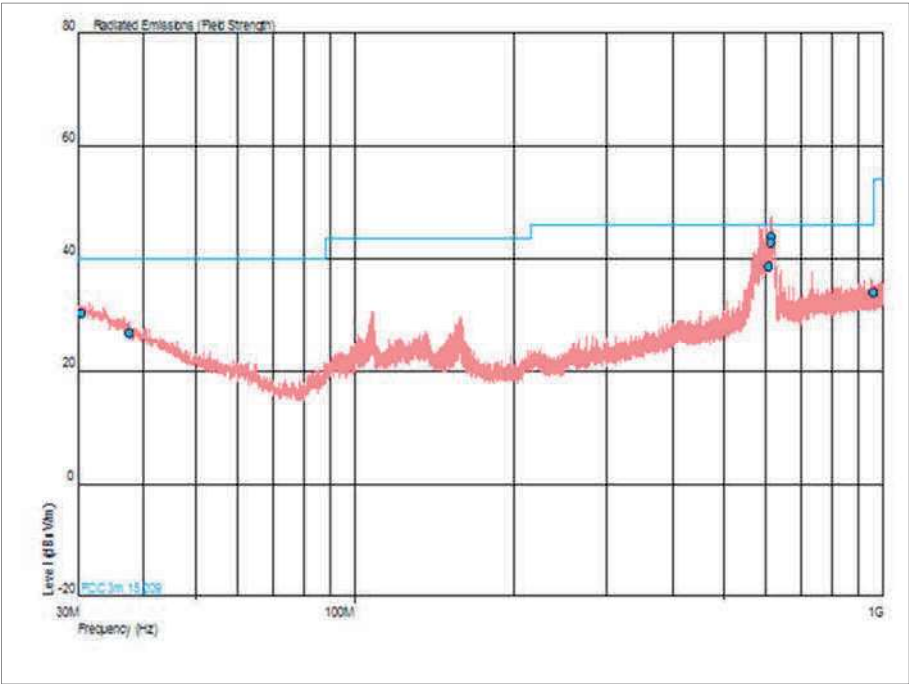


Figure 204 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	894.33	436.52	5000.00	500.00	4105.67	63.48
2.250000	851.14	371.11	5000.00	500.00	4148.86	128.89

Table 102 - 2437 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

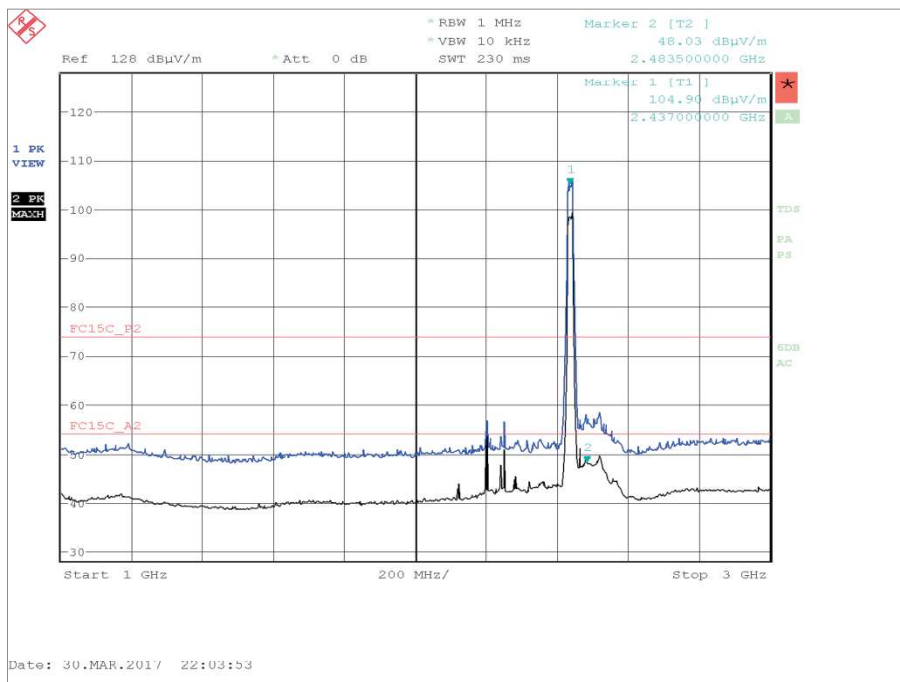


Figure 205 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

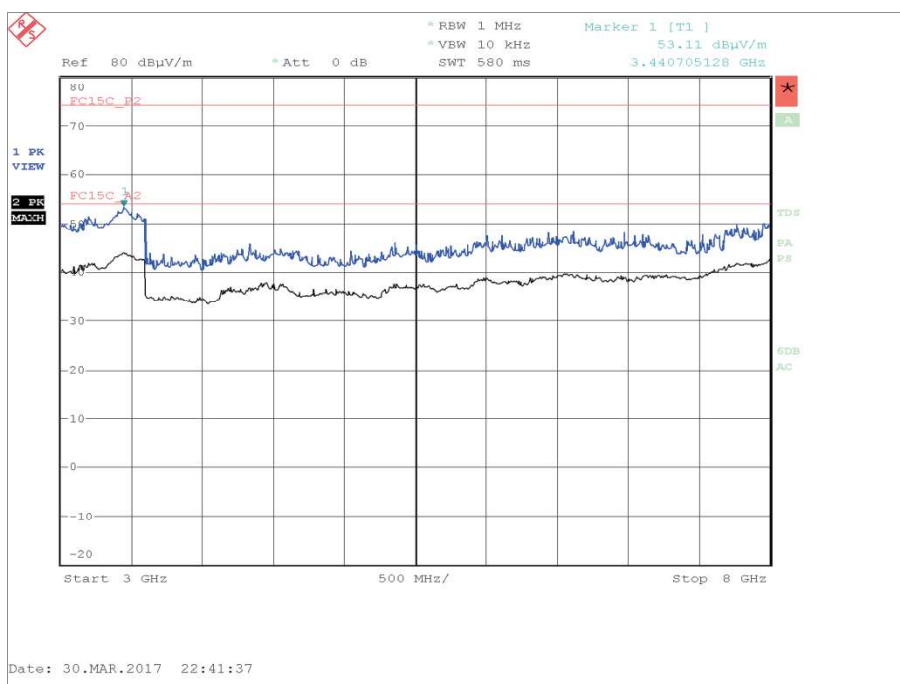


Figure 206 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

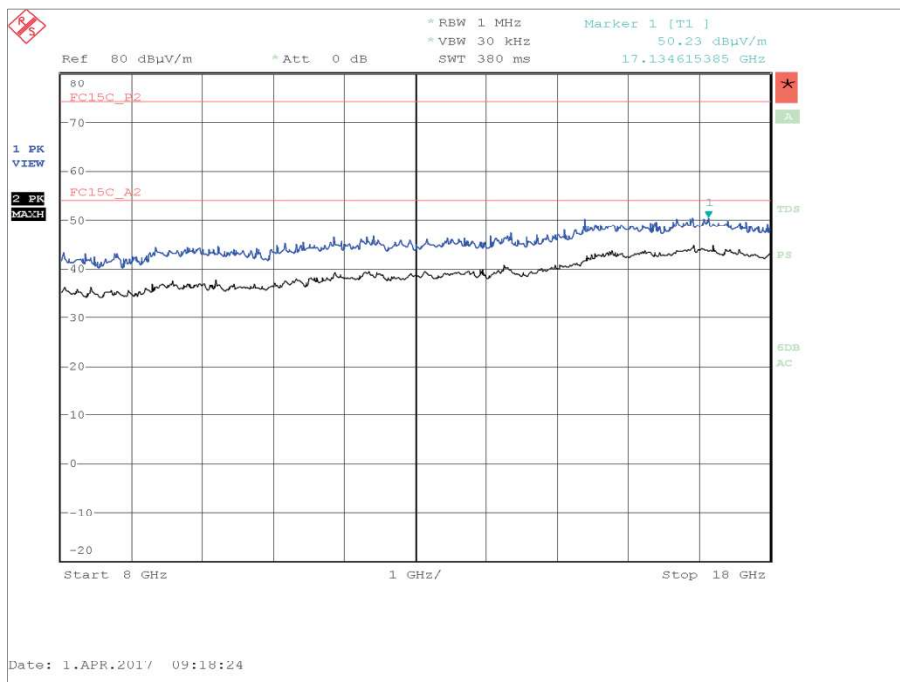


Figure 207 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

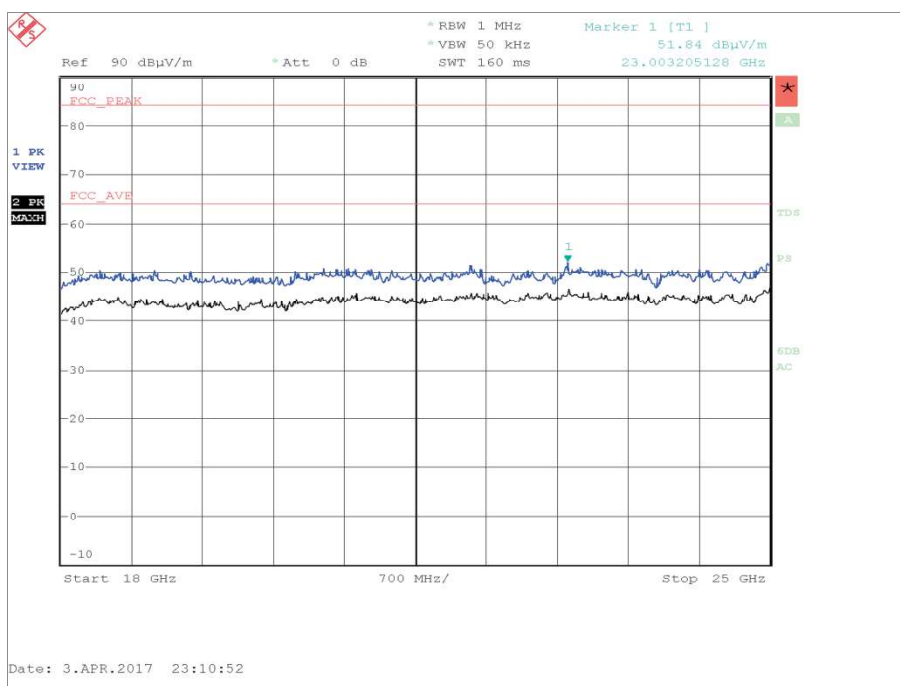


Figure 208 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.702	29.9	40.0	-10.1	360	1.00	Horizontal
37.500	26.9	40.0	-13.1	254	1.00	Horizontal
608.000	34.6	46.0	-11.4	16	1.00	Horizontal
612.385	39.9	46.0	-6.1	110	1.00	Horizontal
614.000	39.2	46.0	-6.8	109	1.00	Horizontal
960.000	34.0	46.0	-12.0	260	1.00	Horizontal

Table 103 - 2462 MHz - 30 MHz to 1 GHz

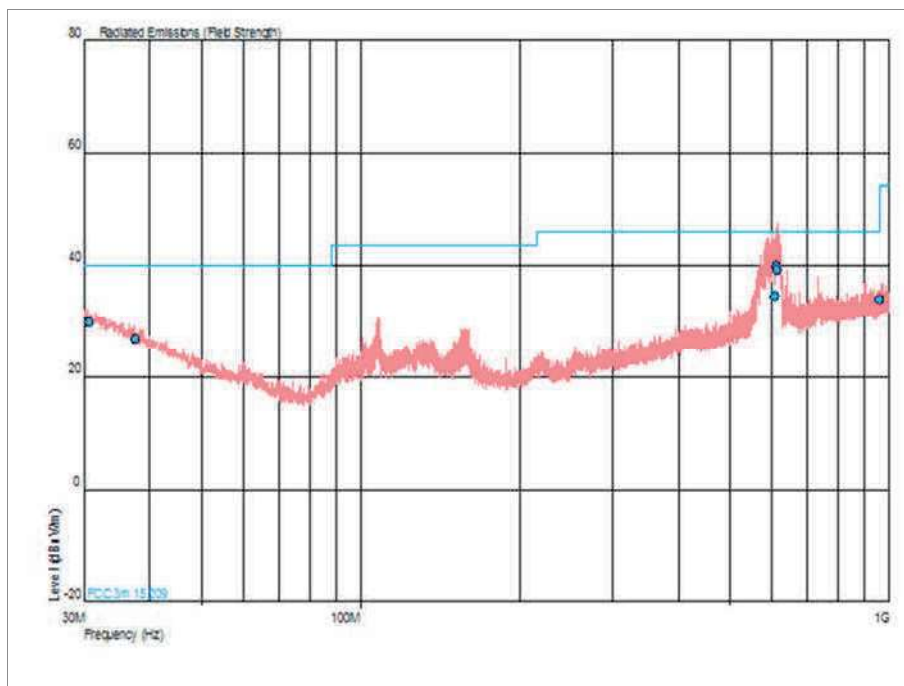


Figure 209 - 2462 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	864.97	401.79	5000.00	500.00	4135.03	98.21
2.250000	684.70	349.54	5000.00	500.00	4315.30	150.46

Table 104 - 2462 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

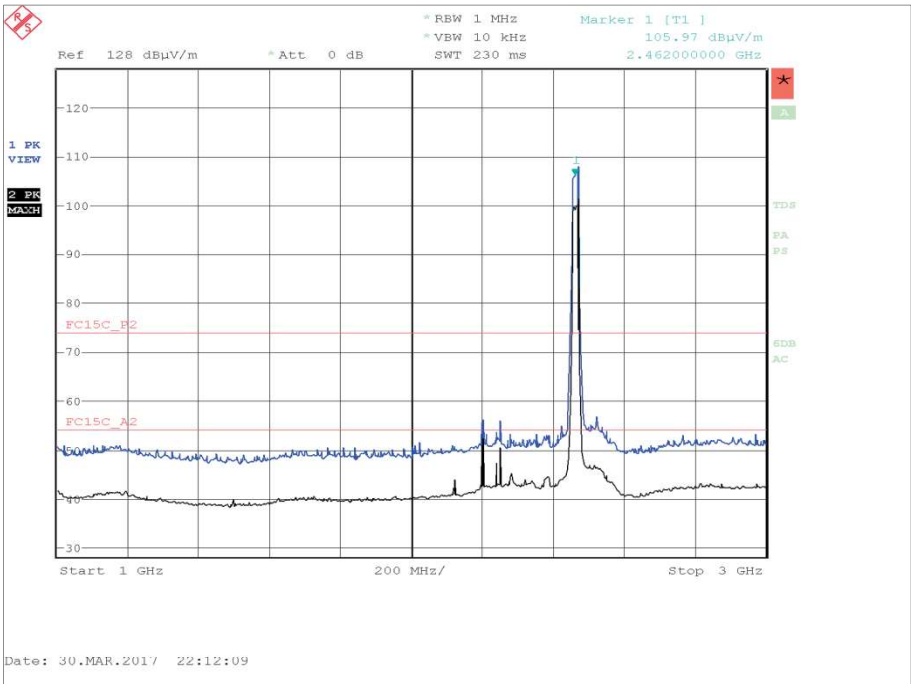


Figure 210 - 2462 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

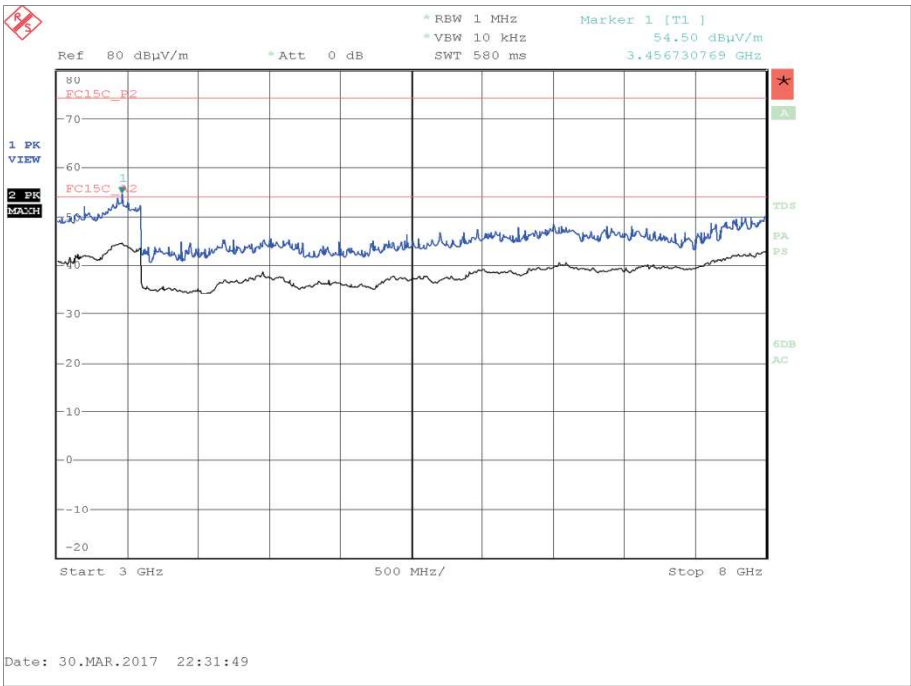


Figure 211 - 2462 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

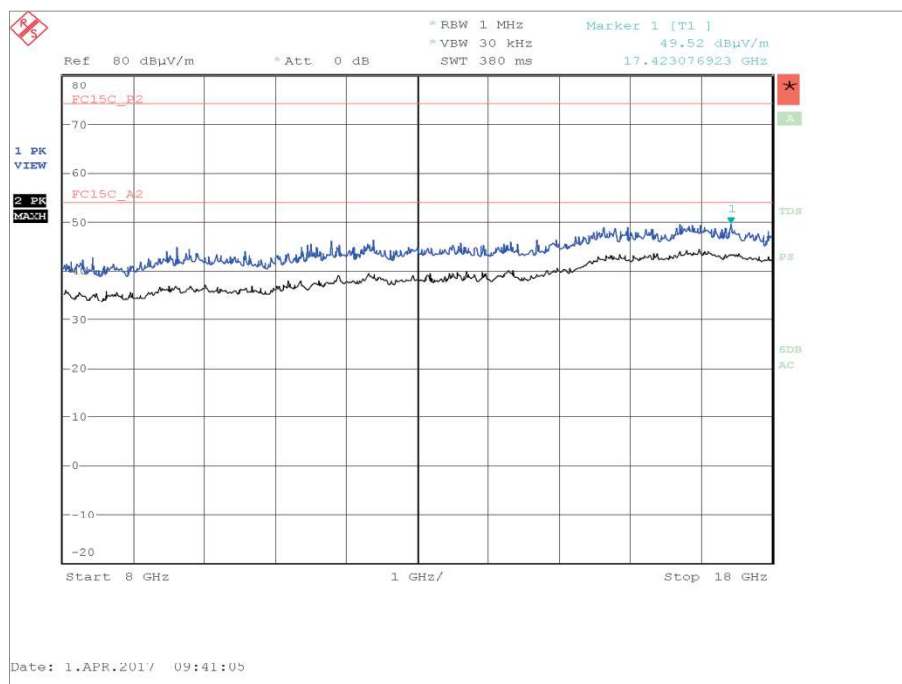


Figure 212 - 2462 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

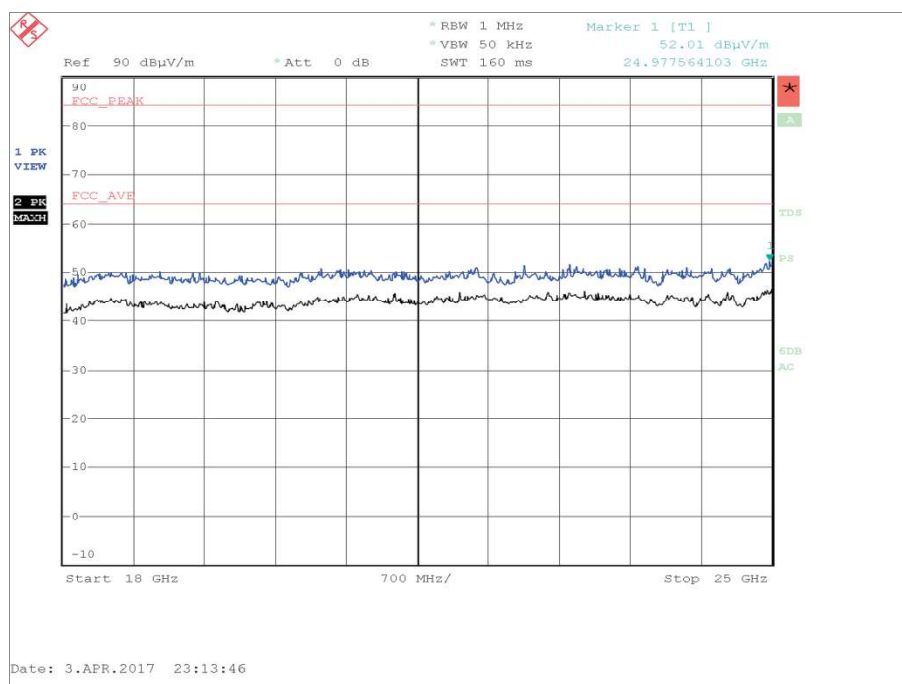


Figure 213 - 2462 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

ANT792-6MN - 802.11n 40 MHz Bandwidth

Testing was performed on the Modulation Coding Scheme which resulted in the highest conducted output power. The Modulation Coding Scheme used during testing was MCS8.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.296	30.3	40.0	-9.7	293	1.00	Horizontal
37.500	27.0	40.0	-13.0	307	1.00	Vertical
608.000	38.1	46.0	-7.9	63	1.00	Vertical
612.058	43.1	46.0	-2.9	74	1.00	Vertical
614.000	42.6	46.0	-3.4	75	1.00	Vertical
960.000	33.9	46.0	-12.1	330	1.00	Vertical

Table 105 - 2422 MHz - 30 MHz to 1 GHz

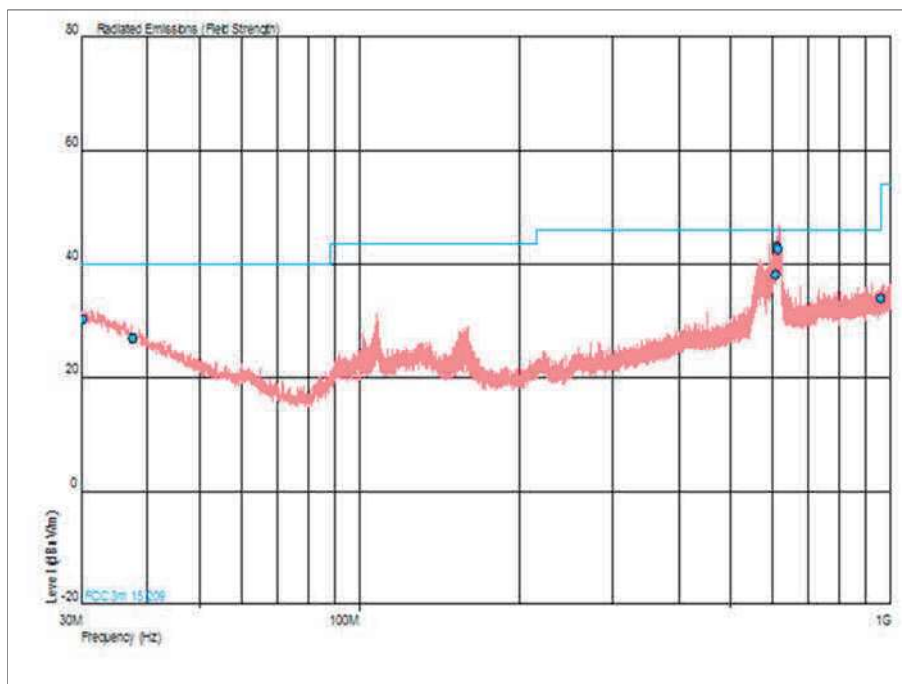


Figure 214 - 2422 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.250000	816.58	163.87	5000.00	500.00	4183.42	336.13

Table 106 - 2422 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

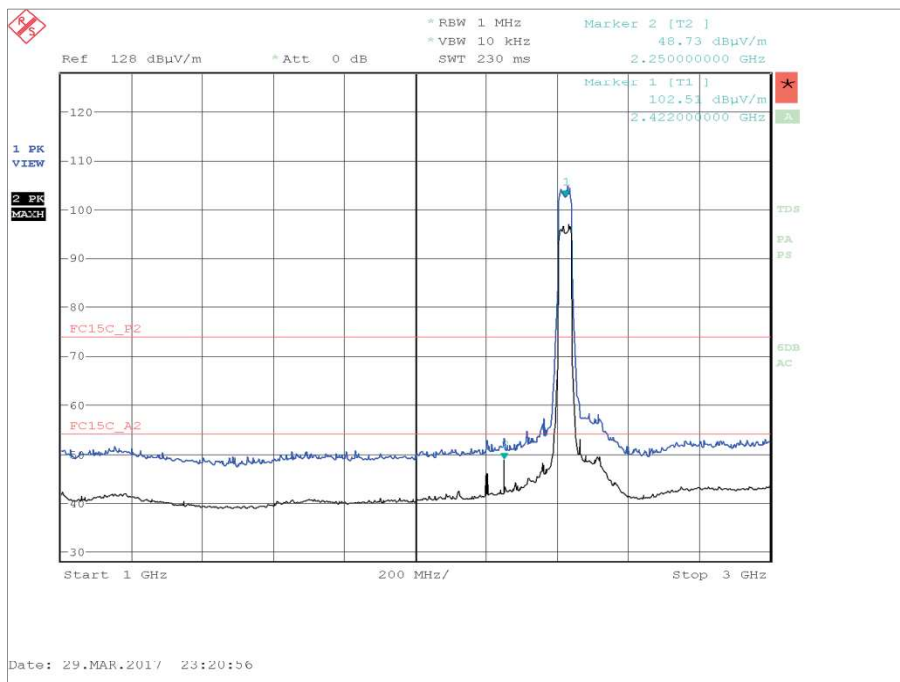


Figure 215 - 2422 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

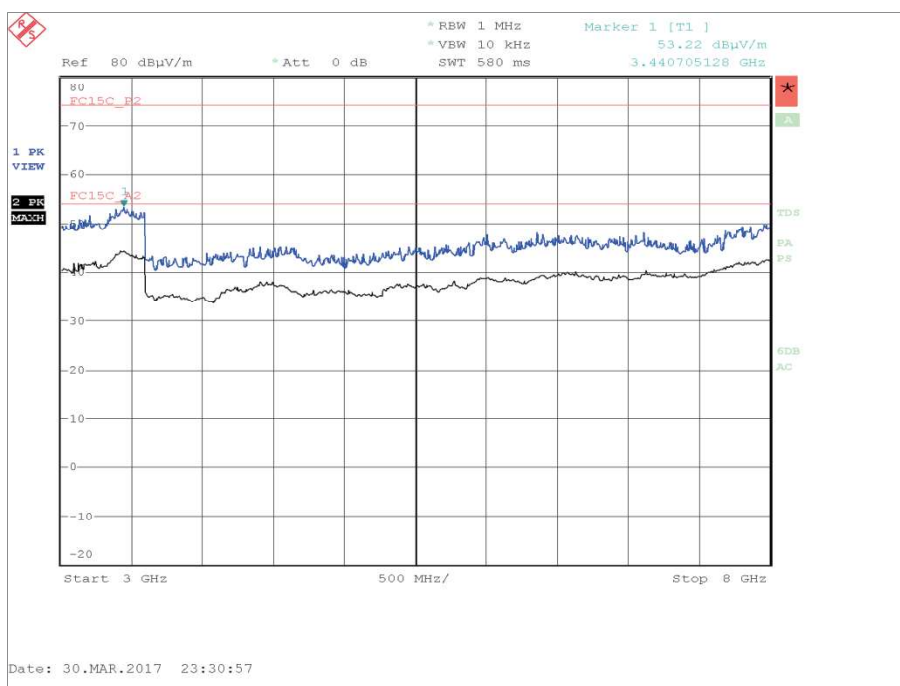


Figure 216 - 2422 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

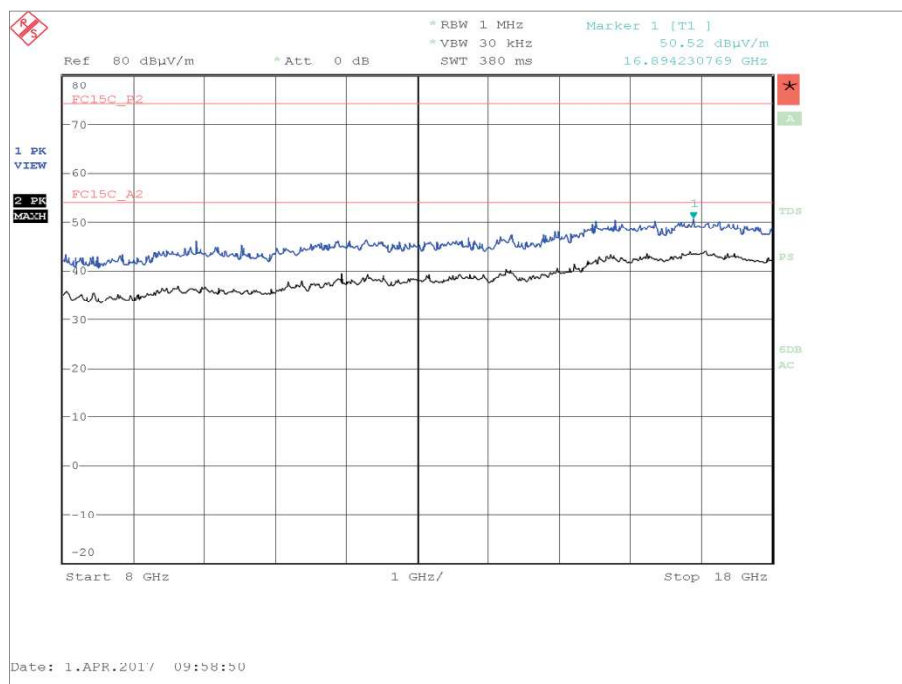


Figure 217 - 2422 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

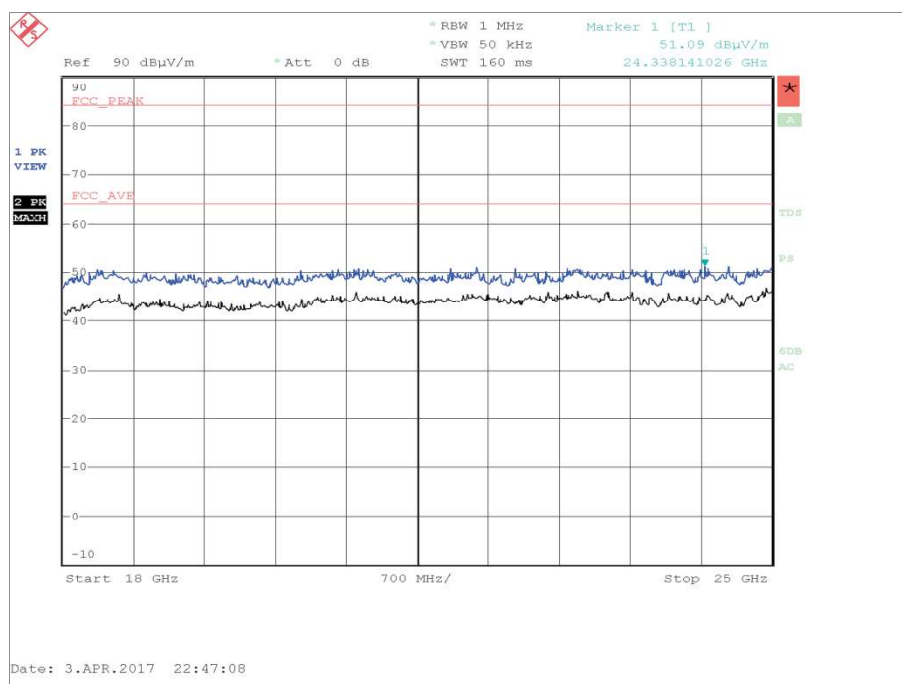


Figure 218 - 2422 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.246	30.4	40.0	-9.6	227	1.00	Vertical
37.500	26.8	40.0	-13.2	97	1.00	Vertical
608.000	39.1	46.0	-6.9	73	1.00	Vertical
612.135	42.9	46.0	-3.1	91	1.00	Vertical
614.000	42.6	46.0	-3.4	85	1.00	Vertical
960.000	33.9	46.0	-12.1	242	1.00	Vertical

Table 107 - 2437 MHz - 30 MHz to 1 GHz

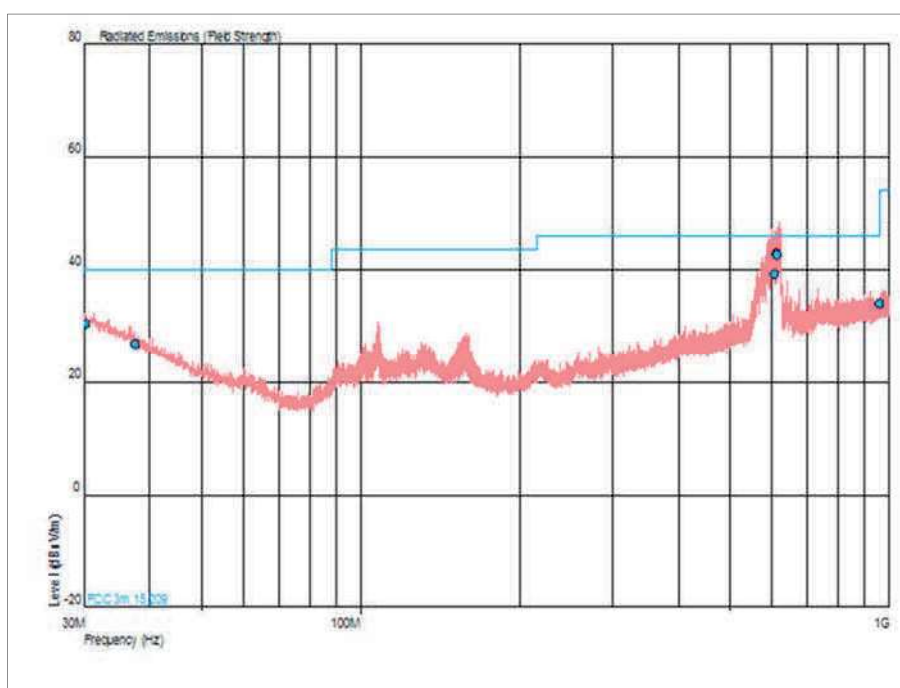


Figure 219 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.250000	617.31	173.98	5000	500	4382.69	326.02

Table 108 - 2437 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

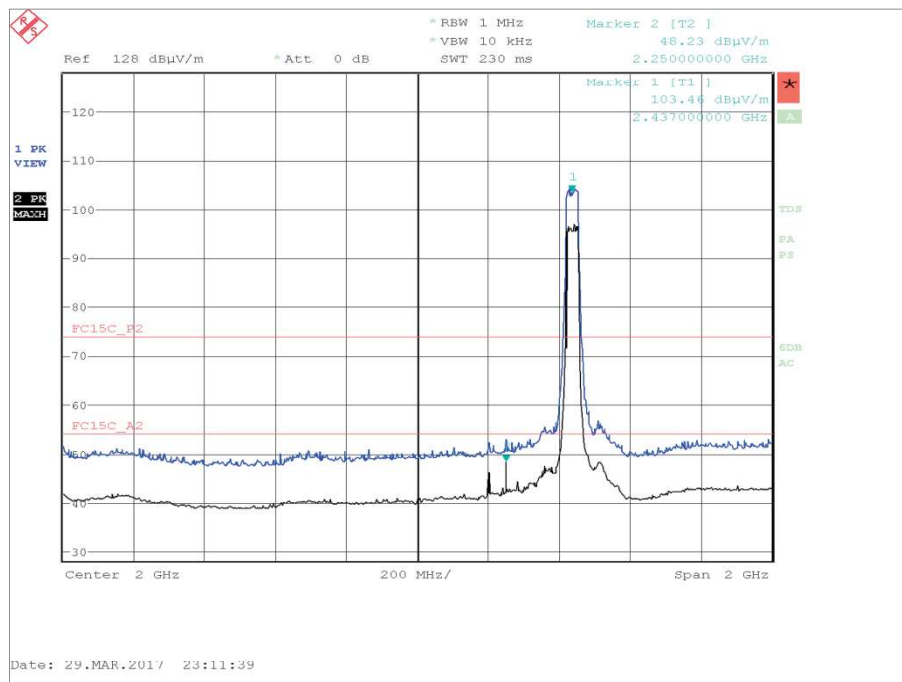


Figure 220 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

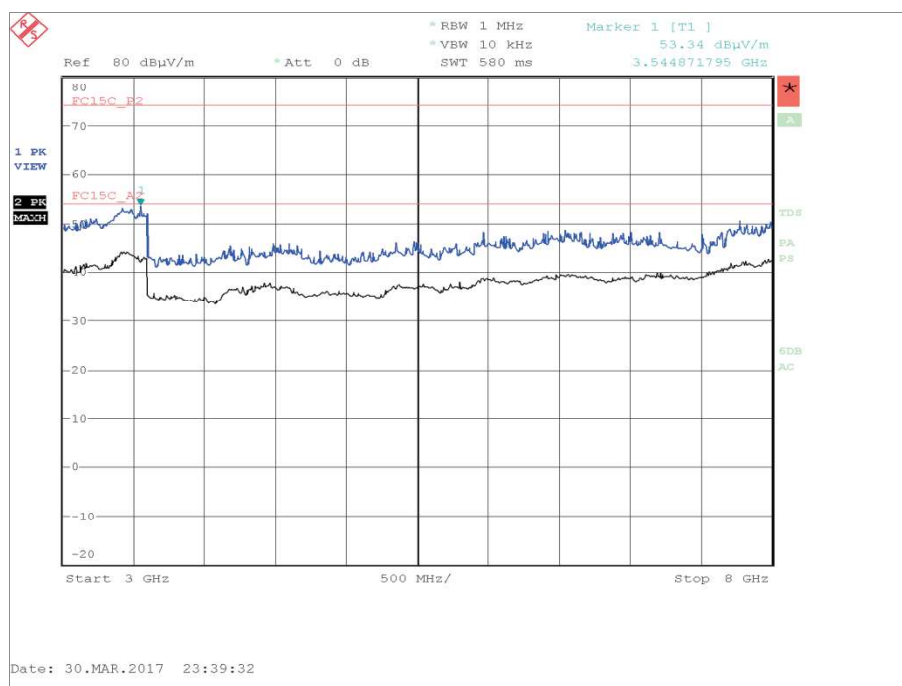


Figure 221 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

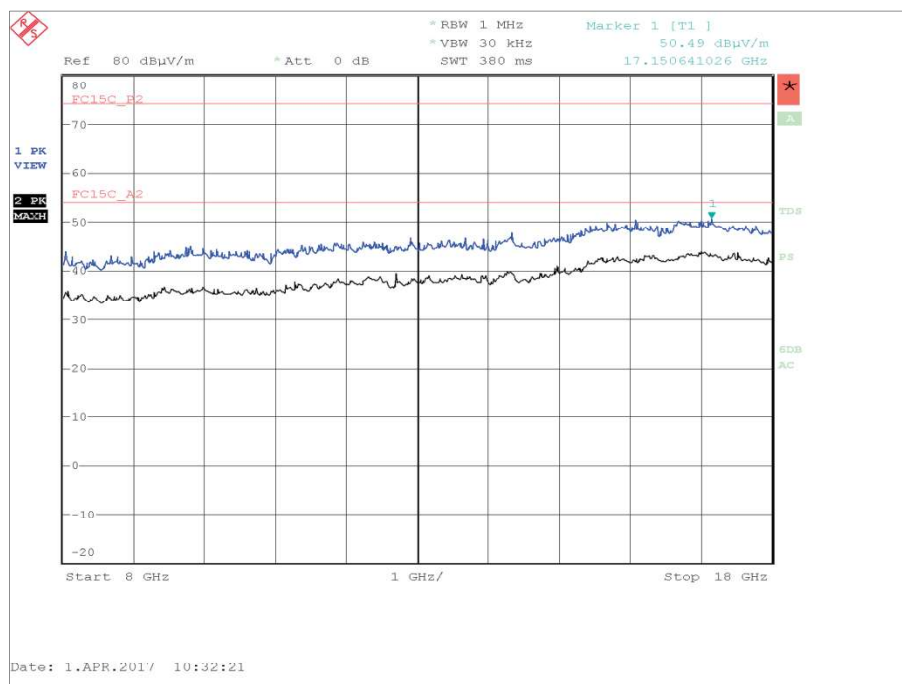


Figure 222 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

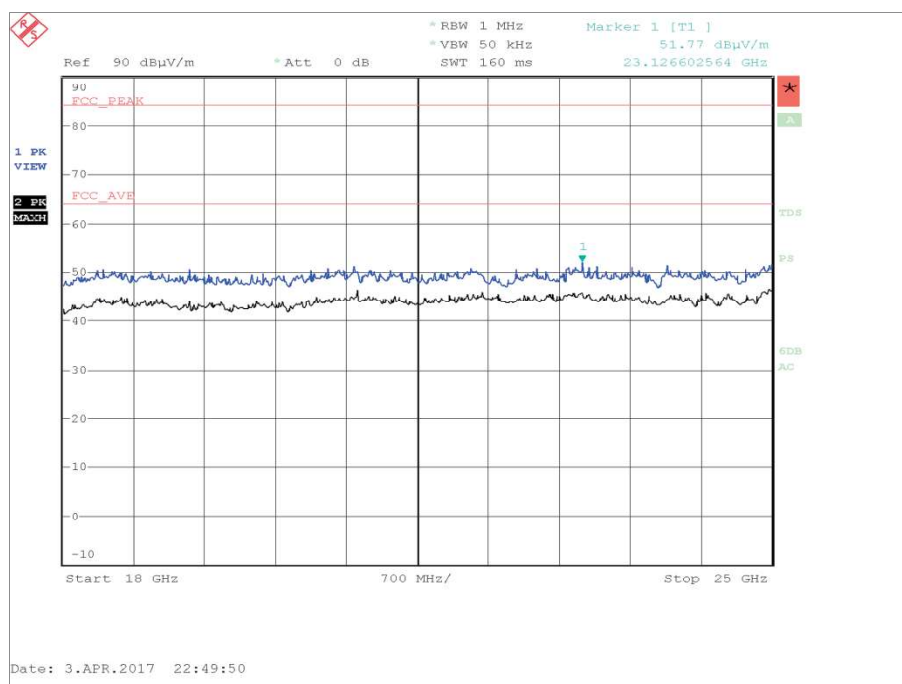


Figure 223 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.317	30.2	40.0	-9.8	211	1.00	Vertical
37.500	26.8	40.0	-13.2	68	1.00	Vertical
608.000	39.0	46.0	-7.0	81	1.00	Vertical
612.089	42.0	46.0	-4.0	97	1.00	Vertical
614.000	43.3	46.0	-2.7	87	1.00	Vertical
960.000	33.9	46.0	-12.1	360	1.00	Vertical

Table 109 - 2452 MHz - 30 MHz to 1 GHz

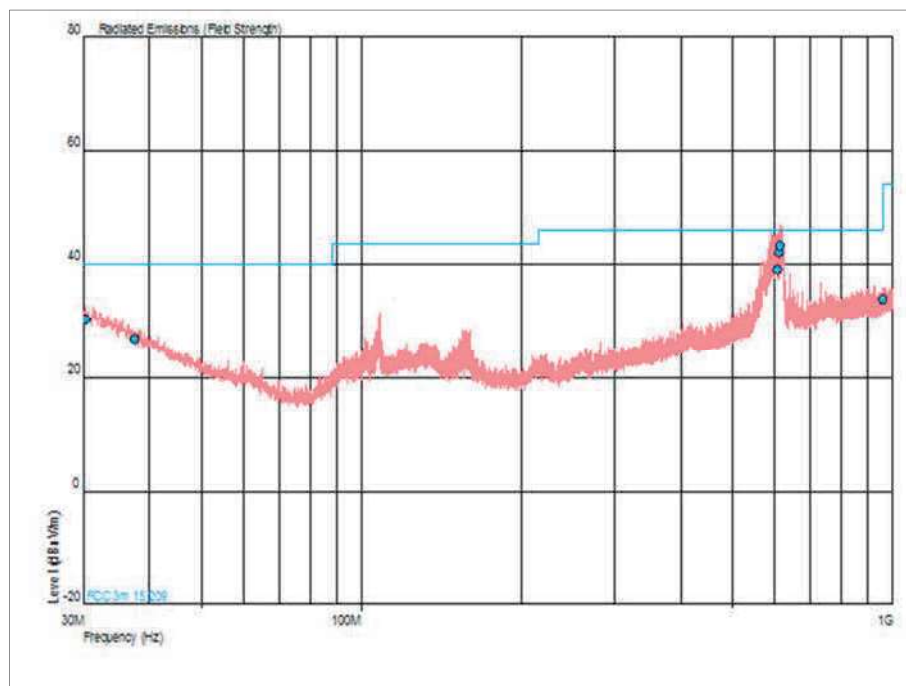


Figure 224 - 2452 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	601.87	169.93	5000.00	500.00	4398.13	330.37
2.250000	728.62	192.97	5000.00	500.00	4271.38	307.03
2.360000	895.36	176.20	5000.00	500.00	4104.64	323.80

Table 110 - 2452 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

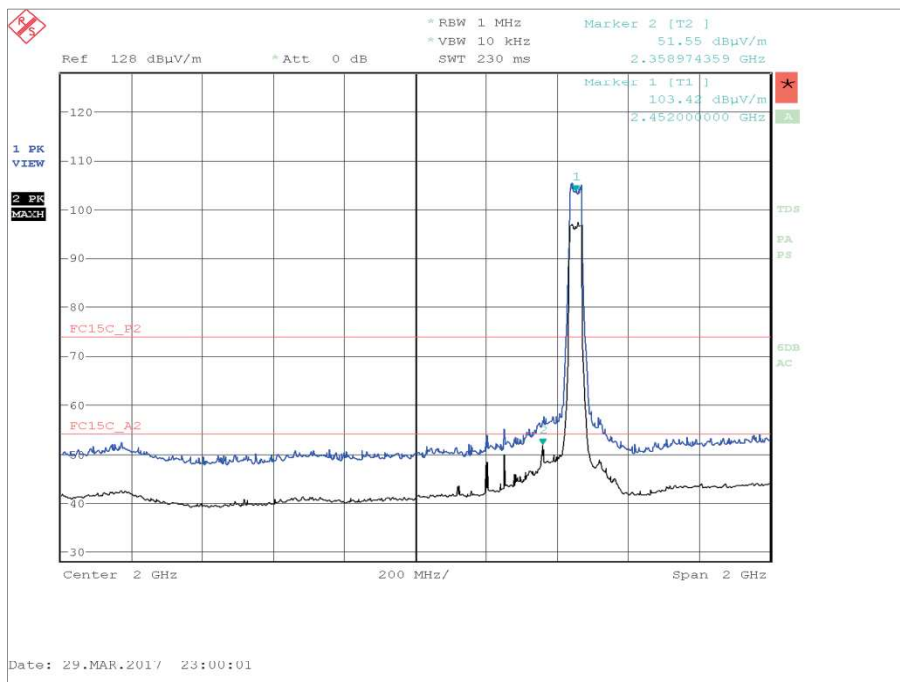


Figure 225 - 2452 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

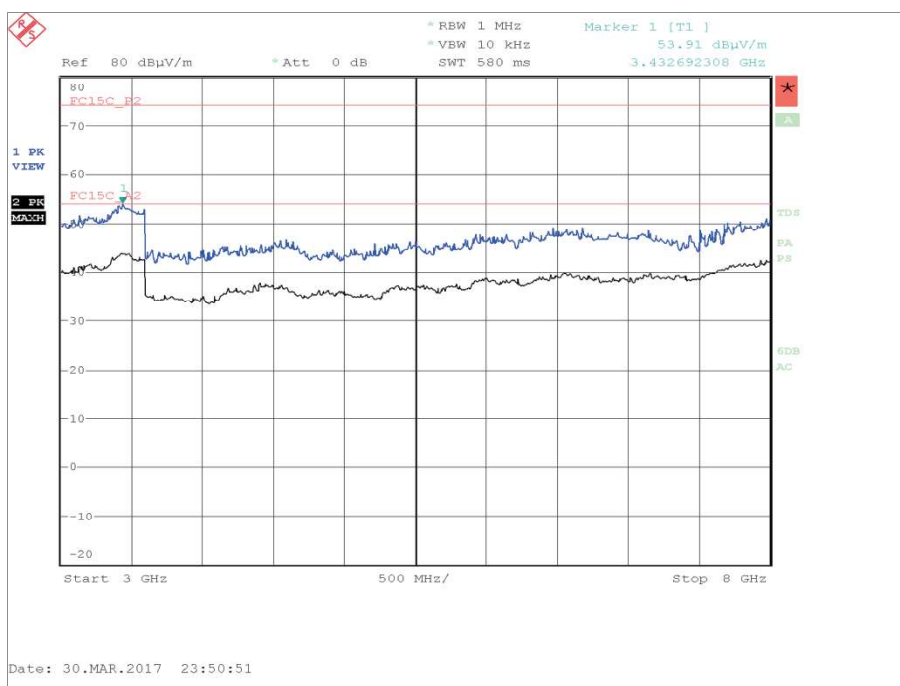


Figure 226 - 2452 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

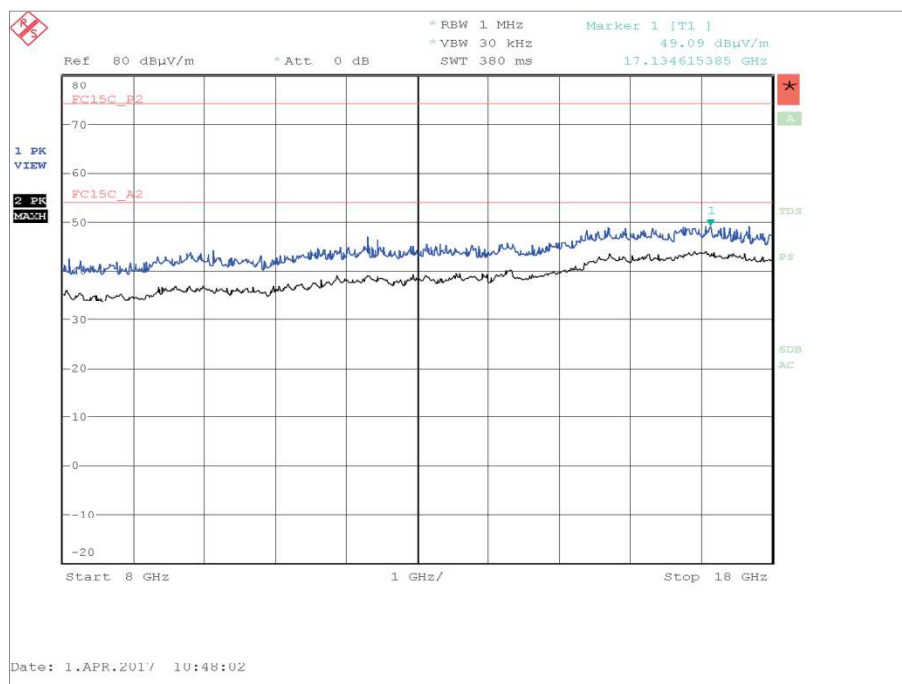


Figure 227 - 2452 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

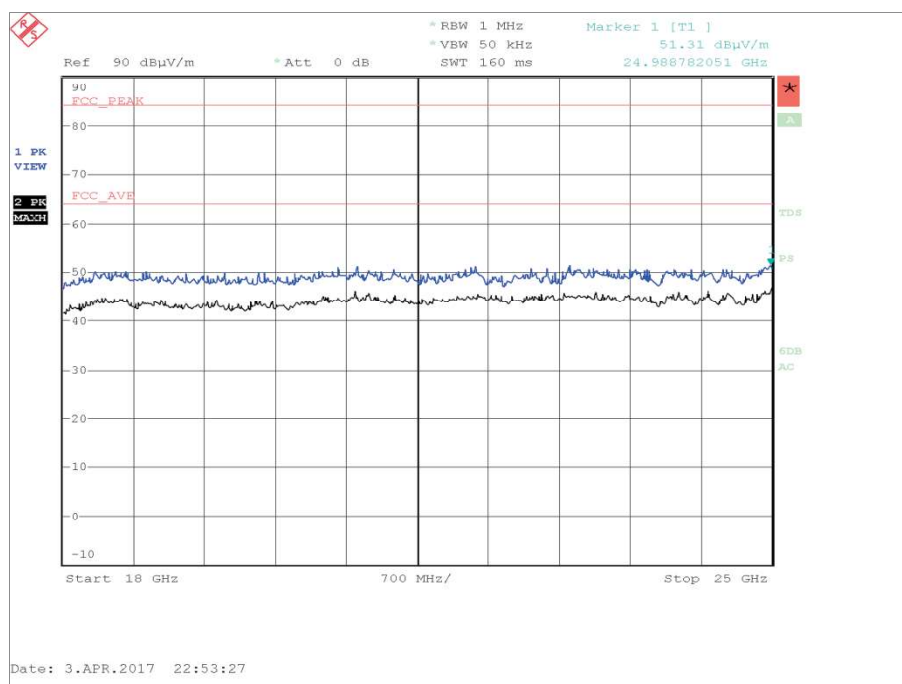


Figure 228 - 2452 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

ANT795-6DC - 802.11b

Testing was performed on the Data Rate which resulted in the highest conducted output power.
The Data Rate used during testing was 1 Mbps.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.444	30.5	40.0	-9.5	25	1.00	Horizontal
37.500	27.4	40.0	-12.6	32	1.00	Horizontal
608.000	39.2	46.0	-6.8	93	1.00	Vertical
613.077	42.9	46.0	-3.1	90	1.00	Vertical
614.000	41.3	46.0	-4.7	92	1.16	Vertical
960.000	34.3	46.0	-11.7	213	1.00	Horizontal

Table 111 - 2412 MHz - 30 MHz to 1 GHz

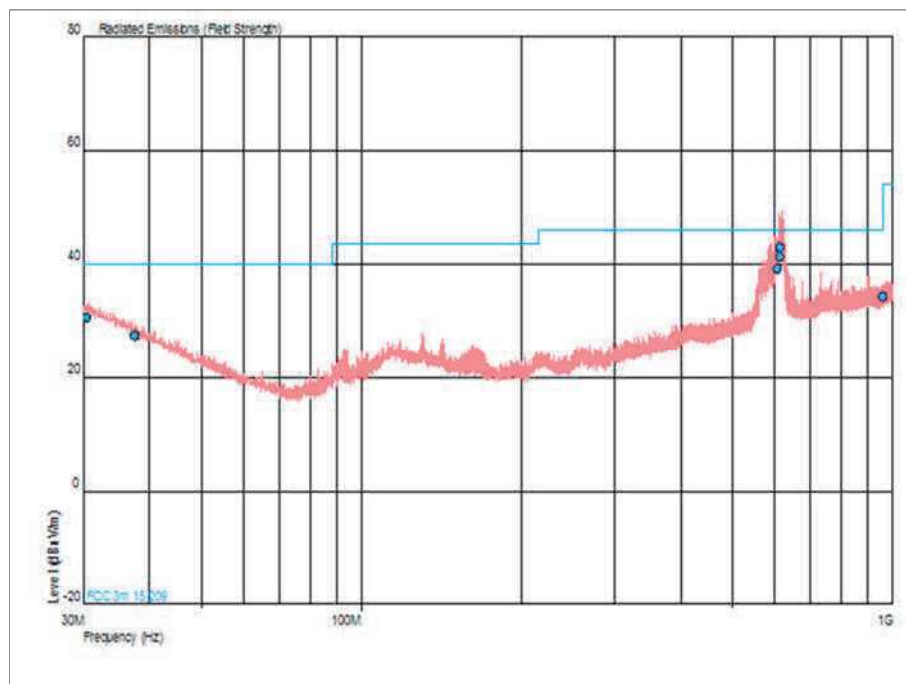


Figure 229 - 2412 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.240000	765.60	445.14	5000.00	500.00	4234.40	54.86
2.250000	685.49	316.23	5000.00	500.00	4314.51	183.77
2.493590	972.75	253.51	5000.00	500.00	4027.25	246.49

Table 112 - 2412 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

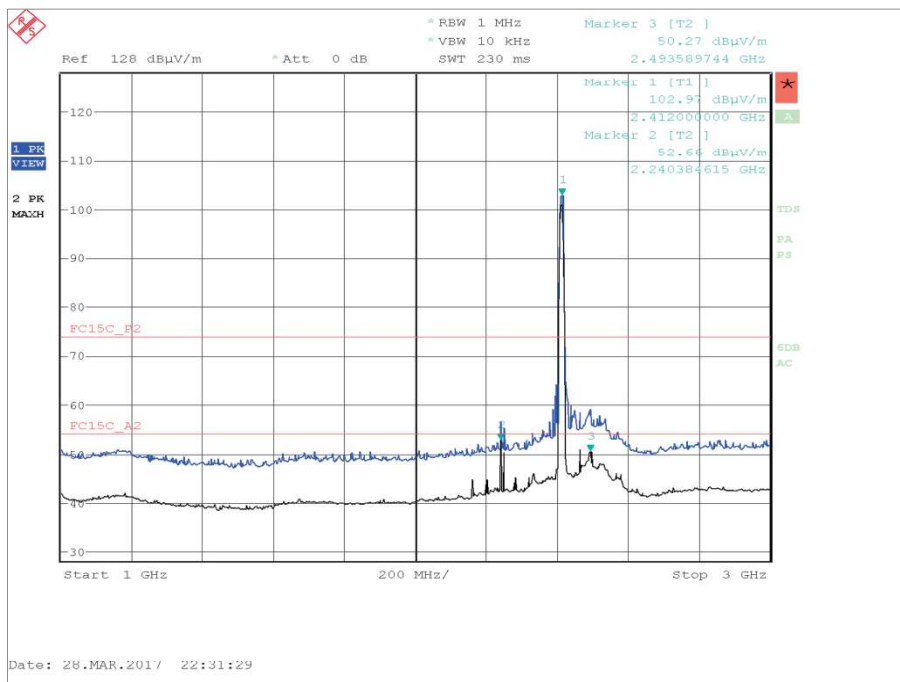


Figure 230 - 2412 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

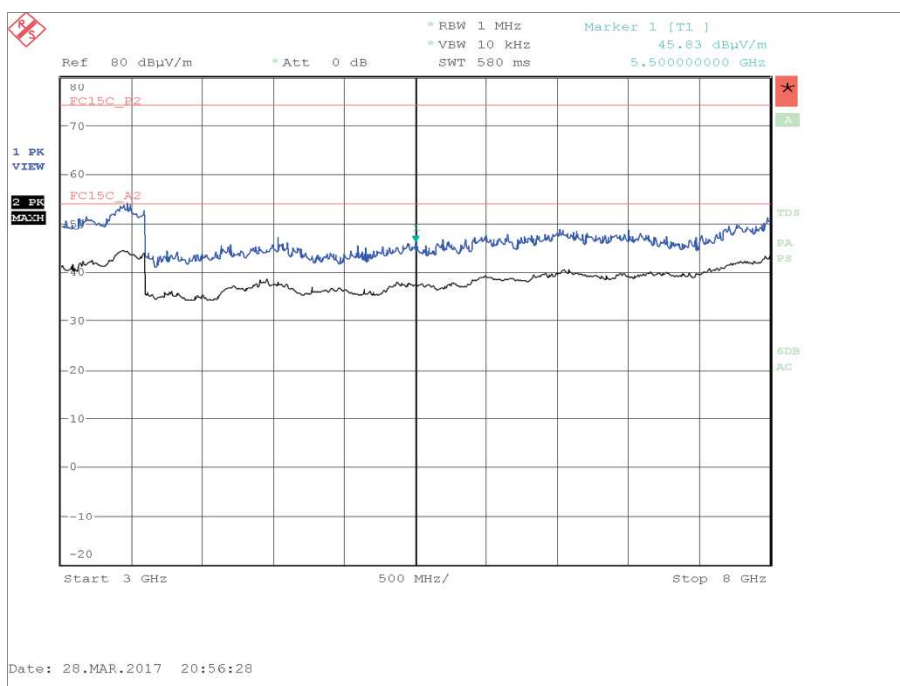


Figure 231 - 2412 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

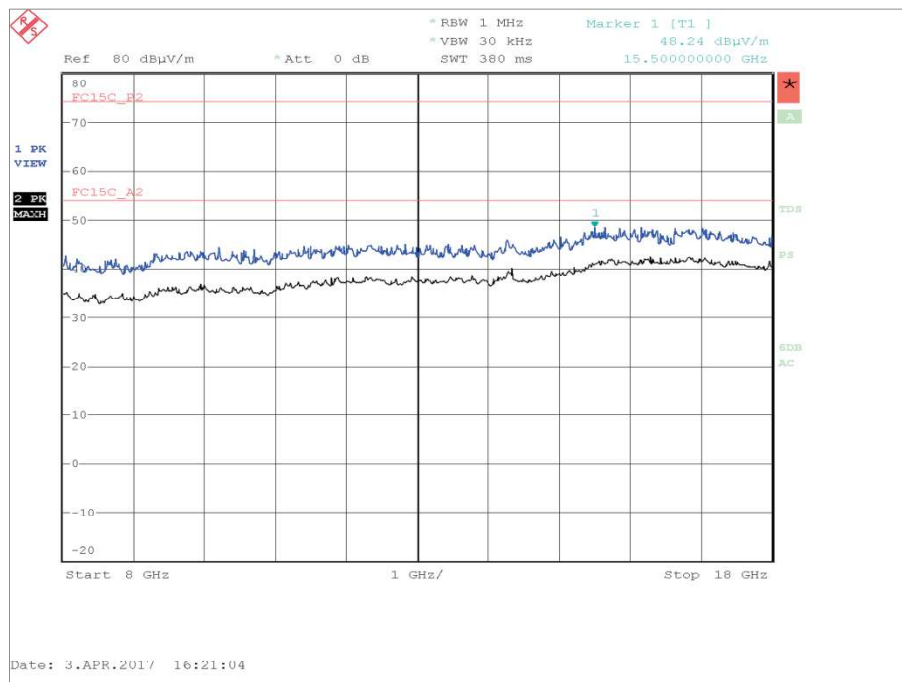


Figure 232 - 2412 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

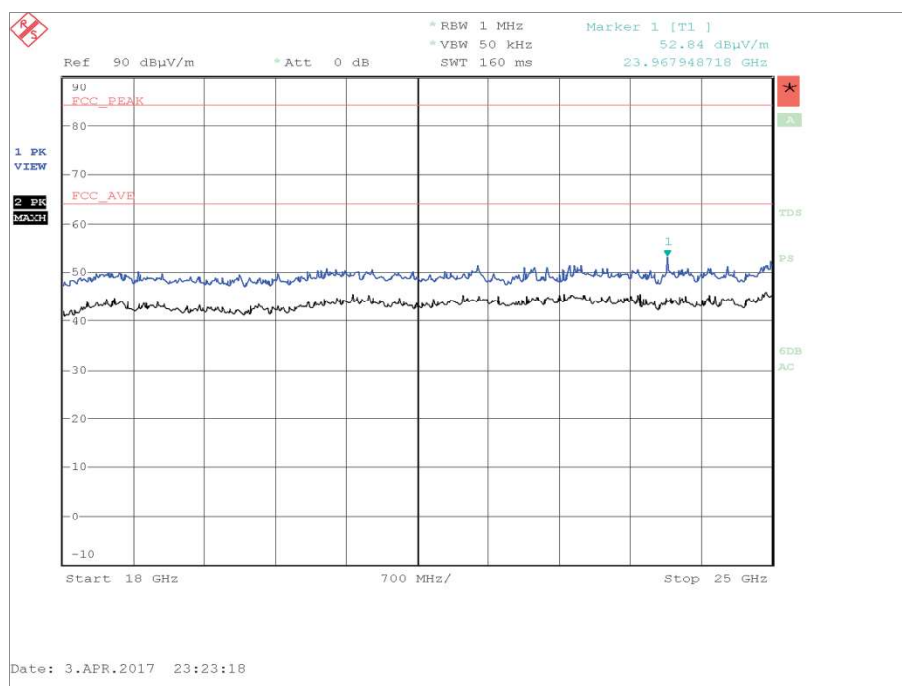


Figure 233 - 2412 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.381	30.6	40.0	-9.4	360	1.00	Vertical
37.500	27.3	40.0	-12.7	312	1.00	Vertical
608.000	38.6	46.0	-7.4	104	1.00	Vertical
612.433	43.7	46.0	-2.3	103	1.00	Vertical
614.000	42.6	46.0	-3.4	102	1.00	Vertical
960.000	34.4	46.0	-11.6	220	1.00	Vertical

Table 113 - 2437 MHz - 30 MHz to 1 GHz

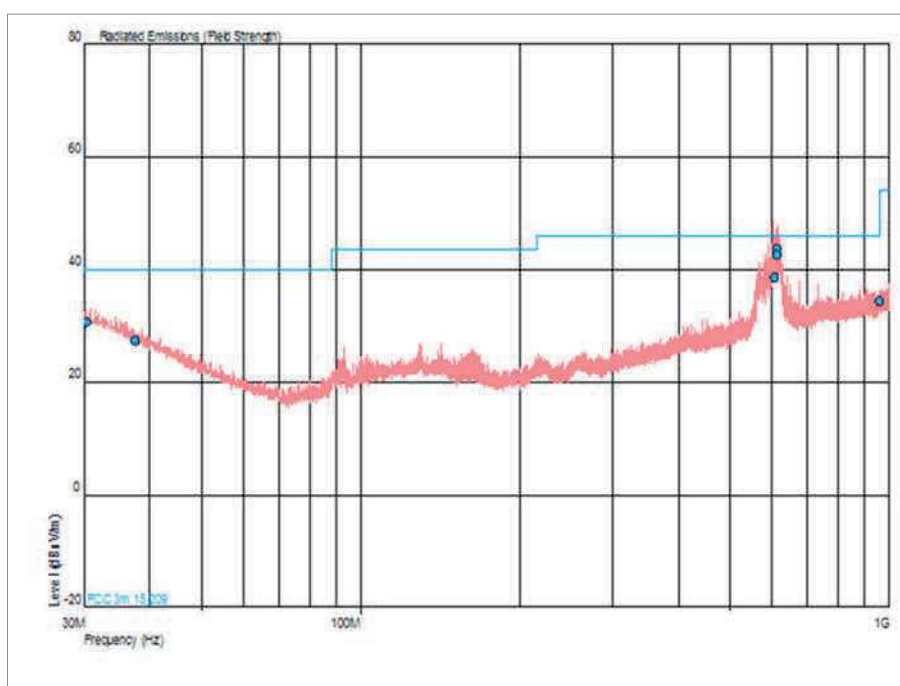


Figure 234 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.240000	790.68	385.92	5000.00	500.00	4209.32	114.08
2.250000	728.62	287.74	5000.00	500.00	4271.38	212.26

Table 114 - 2437 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

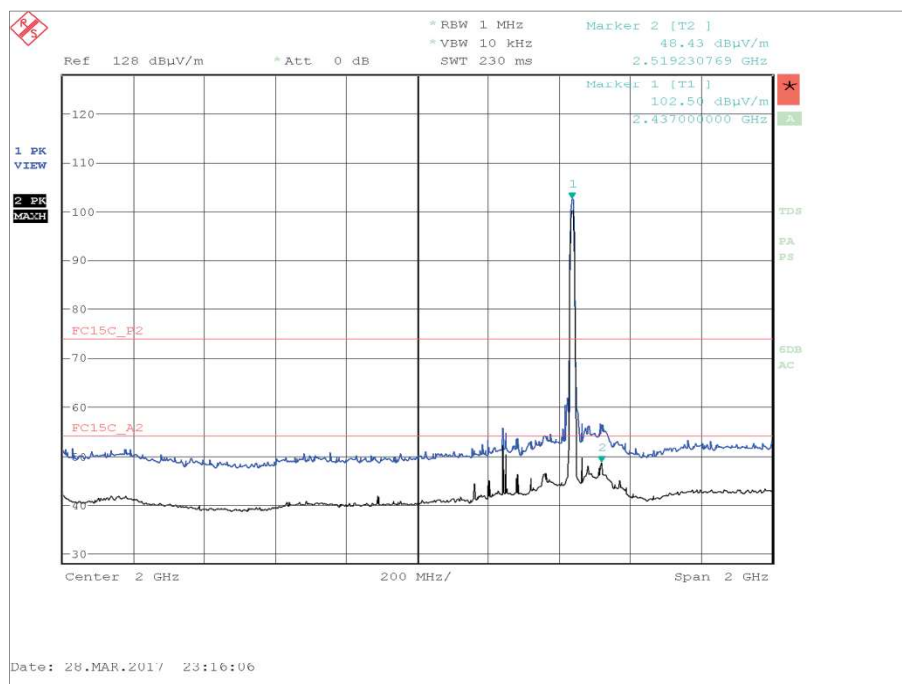


Figure 235 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

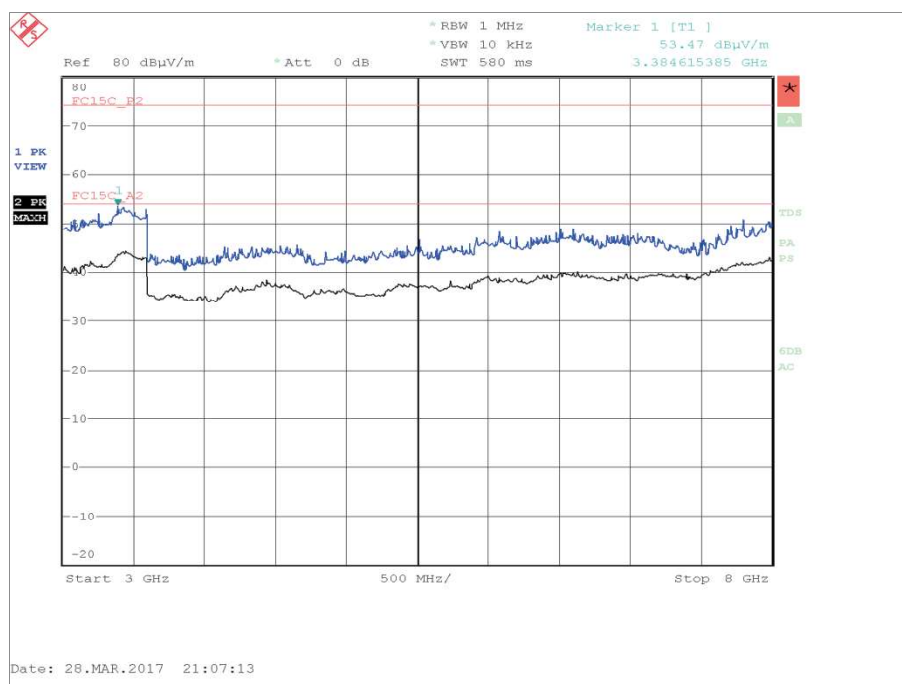


Figure 236 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

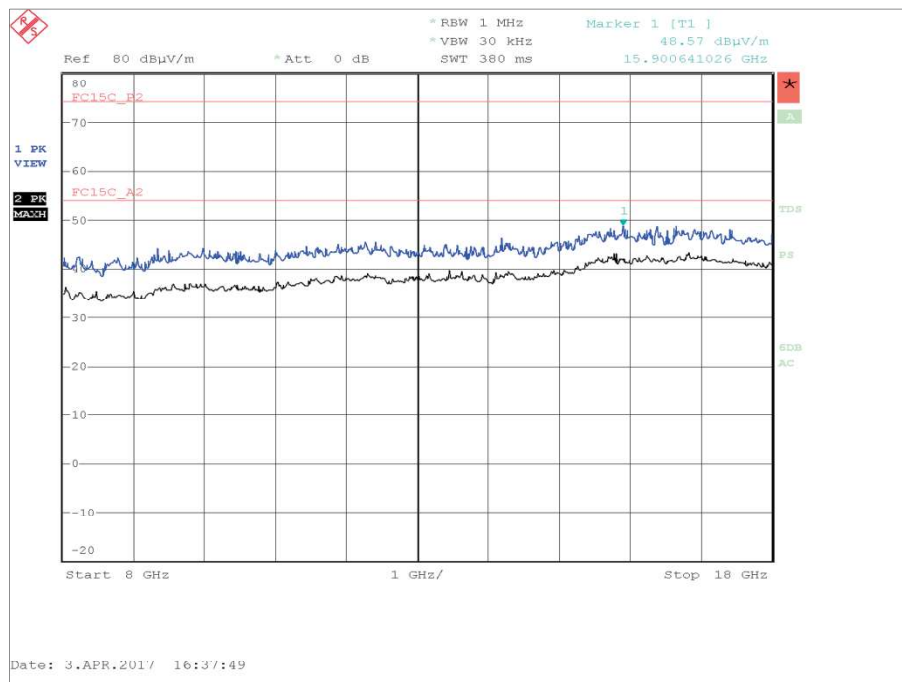


Figure 237 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

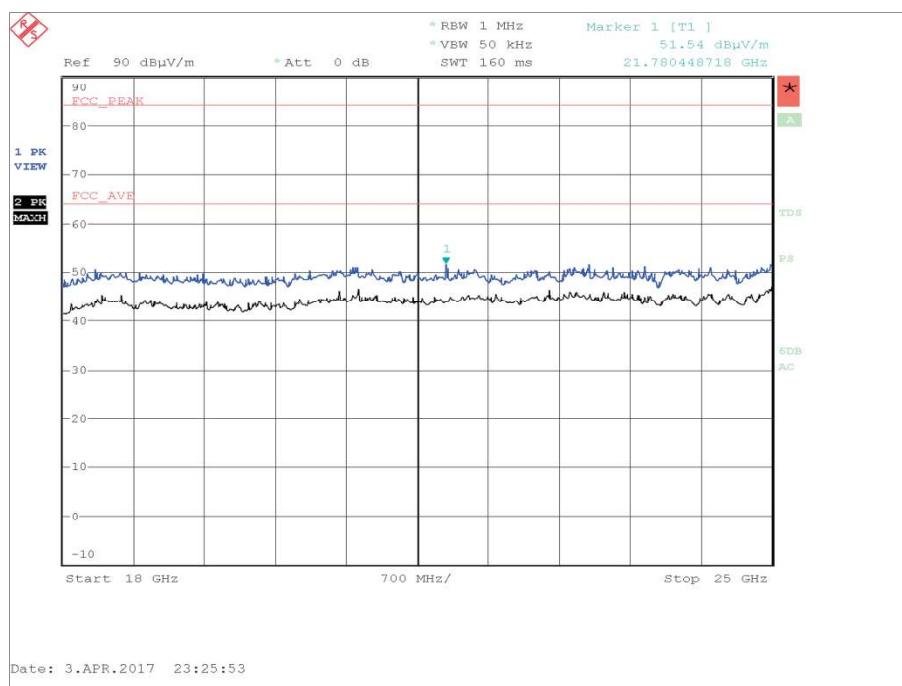


Figure 238 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical



30.482	30.6	40.0	-9.4	38	1.00	Vertical
37.500	27.3	40.0	-12.7	148	1.00	Vertical
608.000	39.5	46.0	-6.5	104	1.00	Vertical
612.971	43.2	46.0	-2.8	92	1.00	Vertical
614.000	41.8	46.0	-4.2	89	1.00	Vertical
960.000	34.4	46.0	-11.6	194	1.00	Vertical

Table 115 - 2462 MHz - 30 MHz to 1 GHz

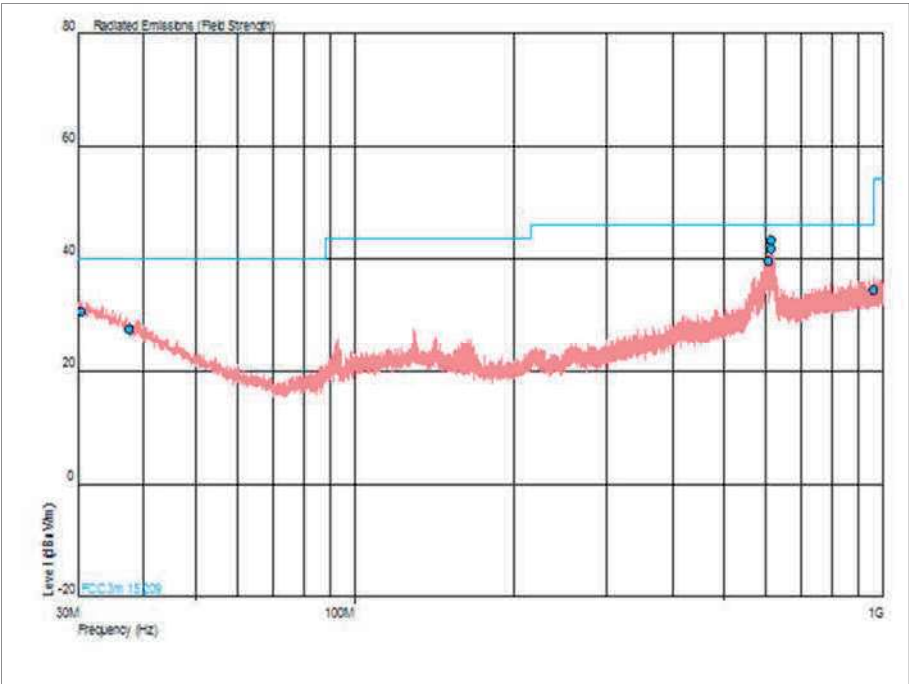


Figure 239 - 2462 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.240000	866.96	492.04	5000.00	500.00	4133.04	7.96
2.250000	752.49	335.74	5000.00	500.00	4247.51	164.26
2.378972	869.96	225.42	5000.00	500.00	4130.04	274.58

Table 116 - 2462 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

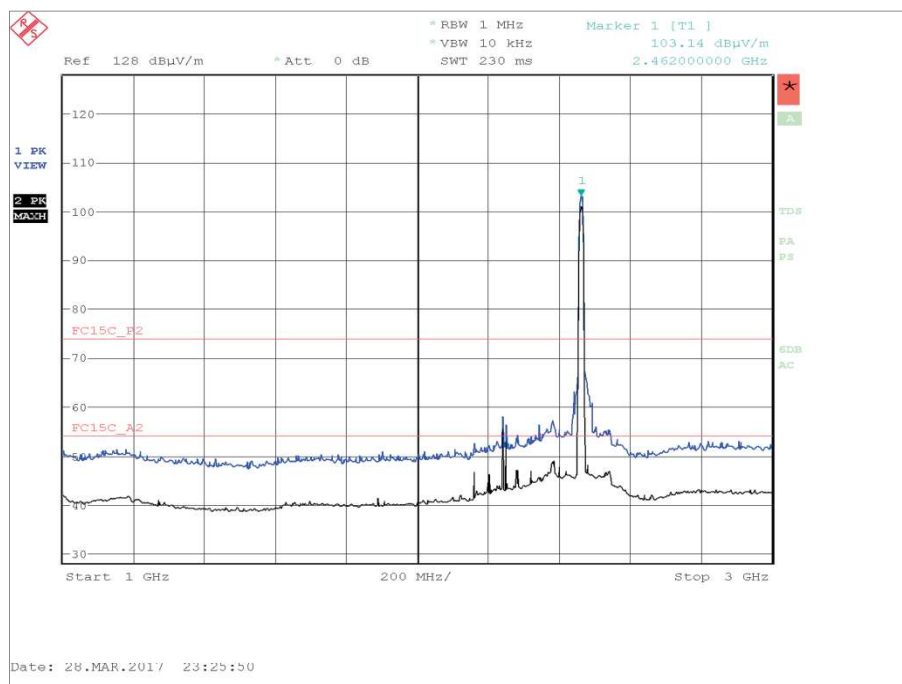


Figure 240 - 2462 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

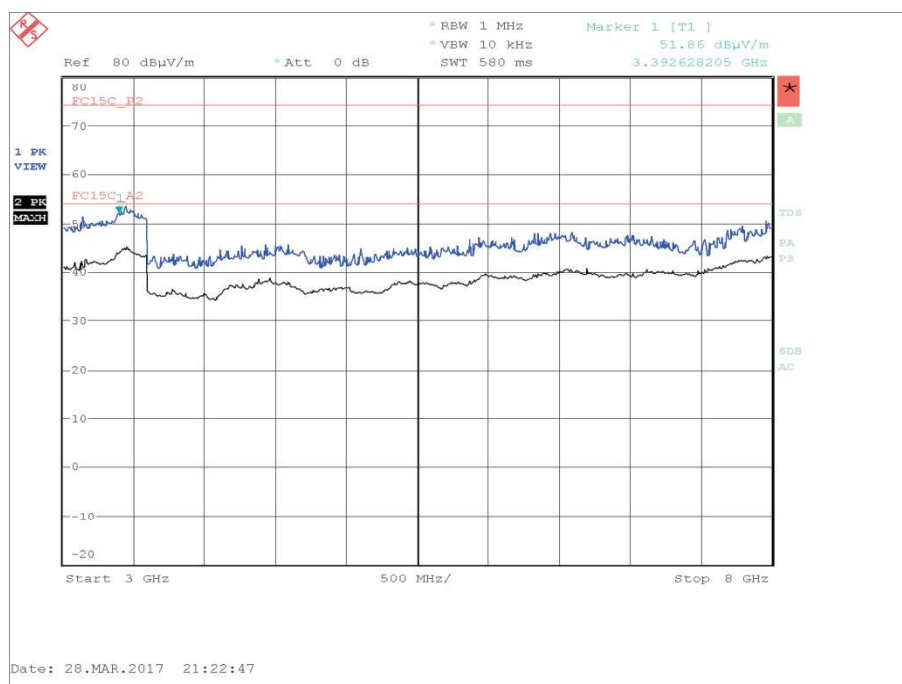


Figure 241 - 2462 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

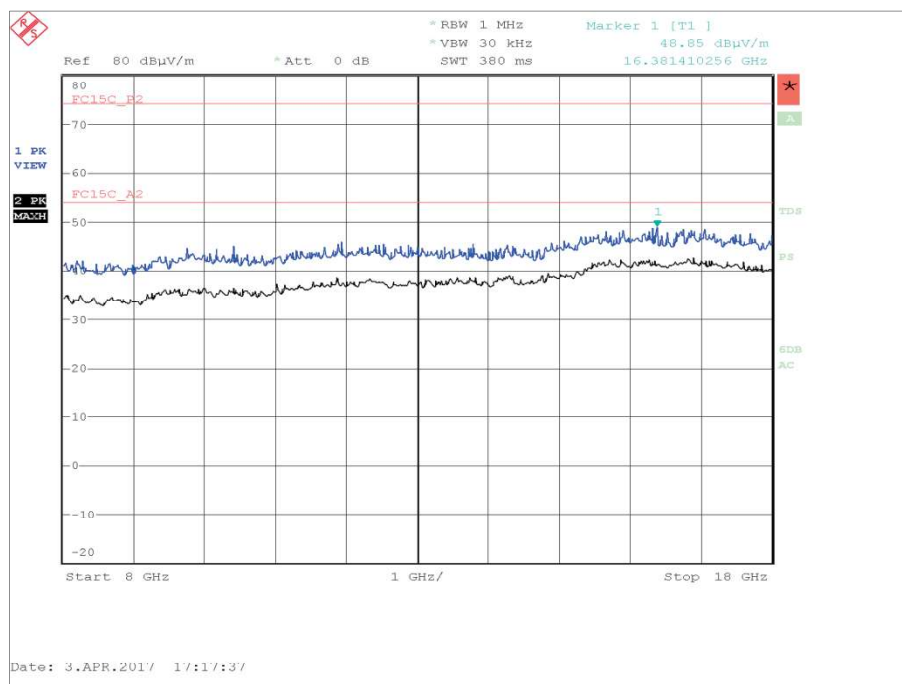


Figure 242 - 2462 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

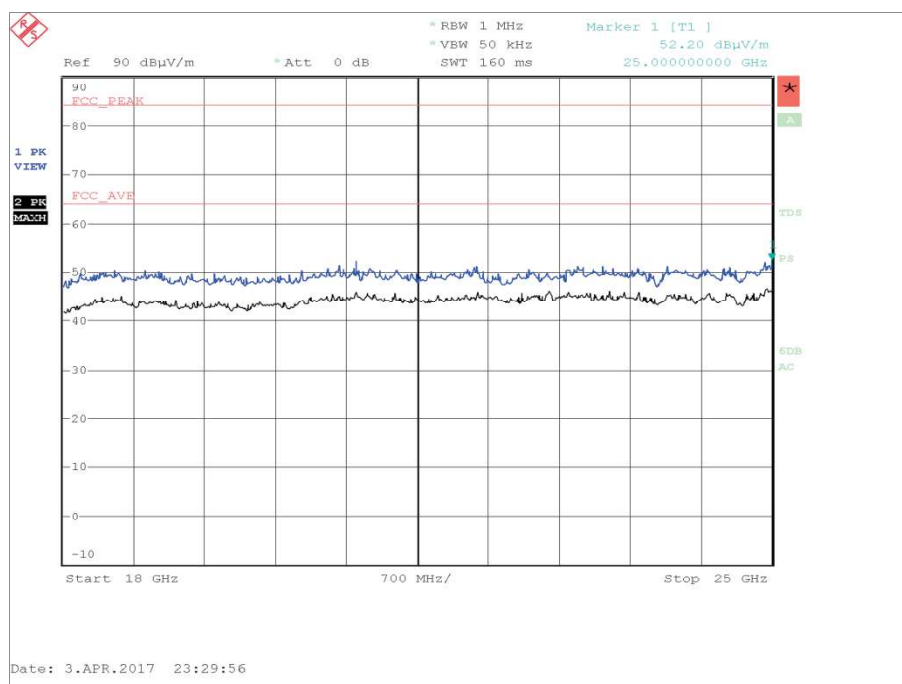


Figure 243 - 2462 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

ANT795-6DC - 802.11g

Testing was performed on the Data Rate which resulted in the highest conducted output power.
 The Data Rate used during testing was 6 Mbps.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
31.000	30.3	40.0	-9.7	37	1.00	Vertical
37.500	27.5	40.0	-12.5	83	1.00	Vertical
608.000	39.3	46.0	-6.7	95	1.00	Vertical
612.971	43.7	46.0	-2.3	122	1.00	Vertical
614.000	42.2	46.0	-3.8	90	1.00	Vertical
960.000	34.4	46.0	-11.6	100	1.00	Vertical

Table 117 - 2412 MHz - 30 MHz to 1 GHz

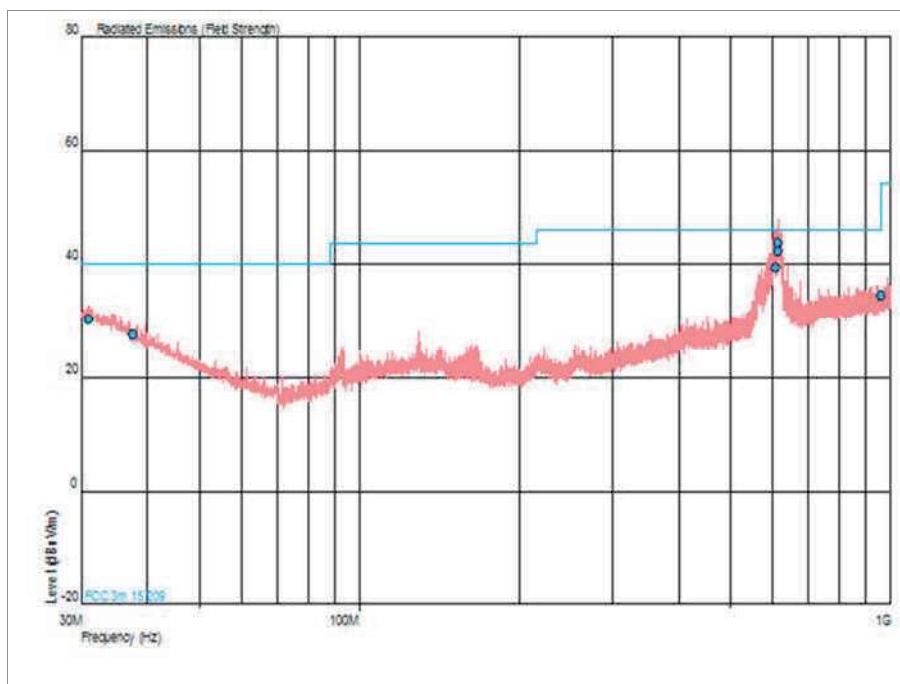


Figure 244 - 2412 MHz - 30 MHz to 1 GHz - Horizontal and Vertical



Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	711.21	231.74	5000.00	500.00	4288.79	268.26
2.240000	874.98	409.26	5000.00	500.00	4125.02	90.74
2.250000	895.36	382.82	5000.00	500.00	4104.64	117.18
2.280000	726.94	231.74	5000.00	500.00	4273.06	268.53

Table 118 - 2412 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.

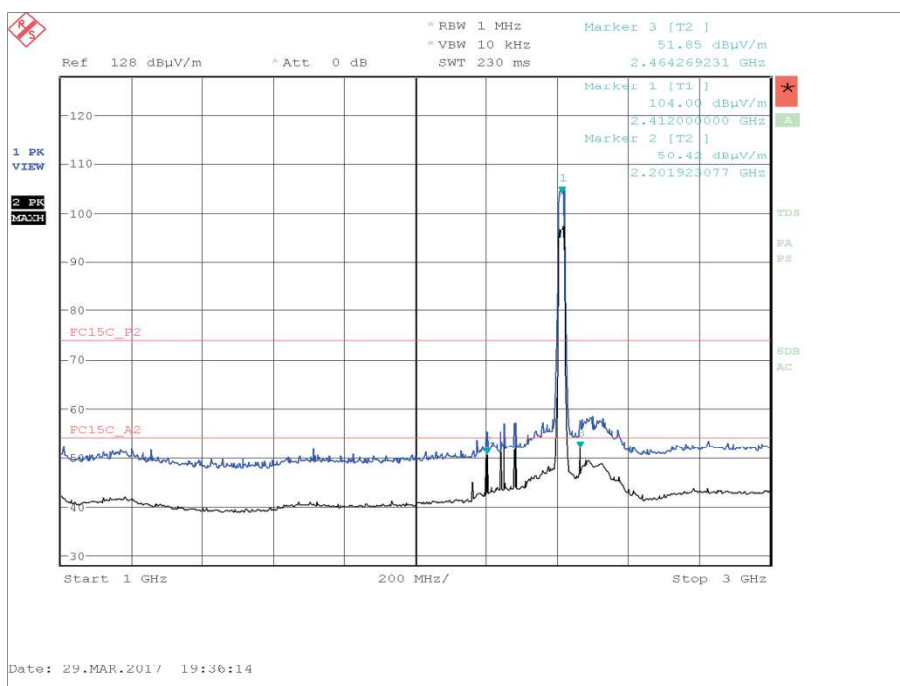


Figure 245 - 2412 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

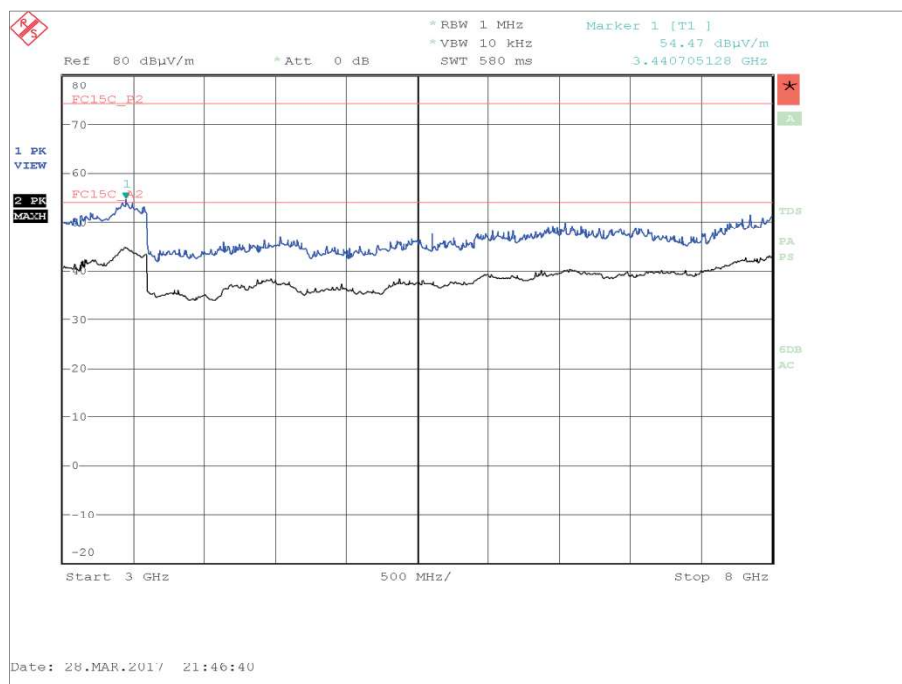


Figure 246 - 2412 MHz - 3 GHz to 8 GHz - Horizontal and Vertical

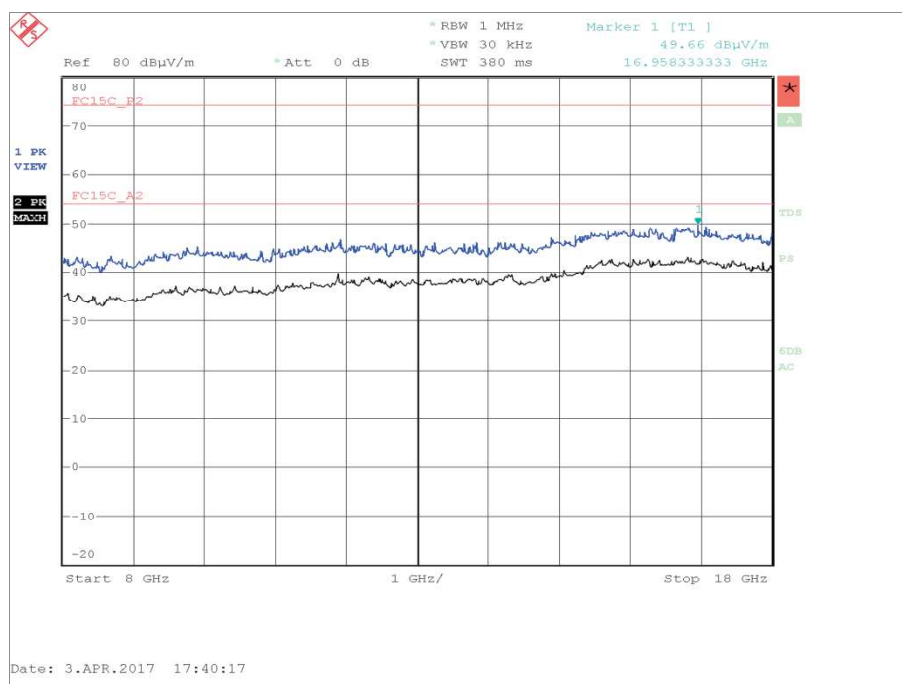


Figure 247 - 2412 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

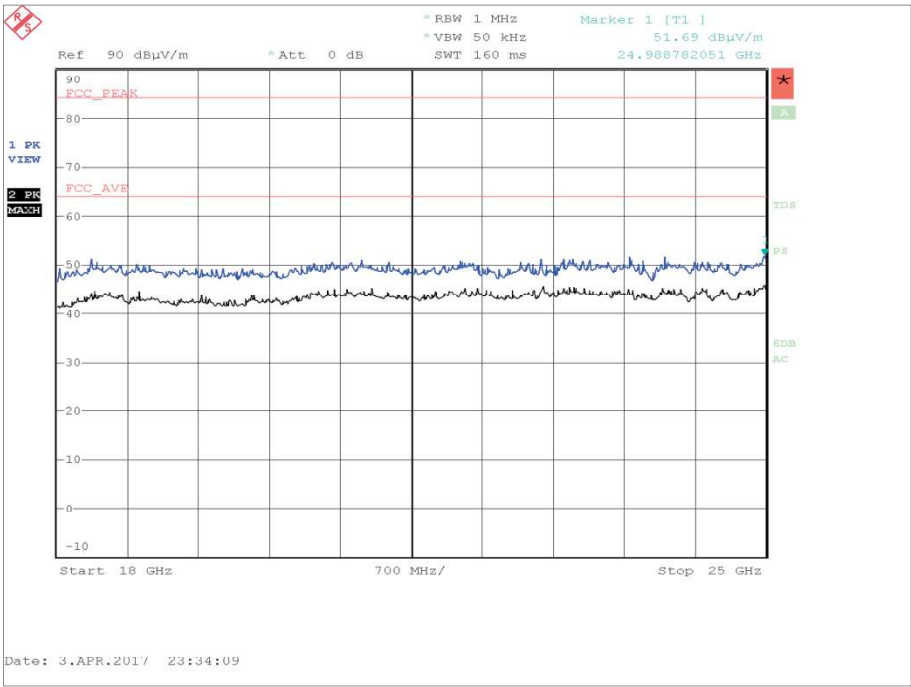


Figure 248 - 2412 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.053	30.8	40.0	-9.2	91	1.00	Vertical
37.500	27.4	40.0	-12.6	360	1.00	Vertical
608.000	38.1	46.0	-7.9	127	1.00	Vertical
612.647	43.7	46.0	-2.3	94	1.00	Vertical
614.000	42.6	46.0	-3.4	99	1.00	Vertical
960.000	34.4	46.0	-11.6	214	1.00	Vertical

Table 119 - 2437 MHz - 30 MHz to 1 GHz

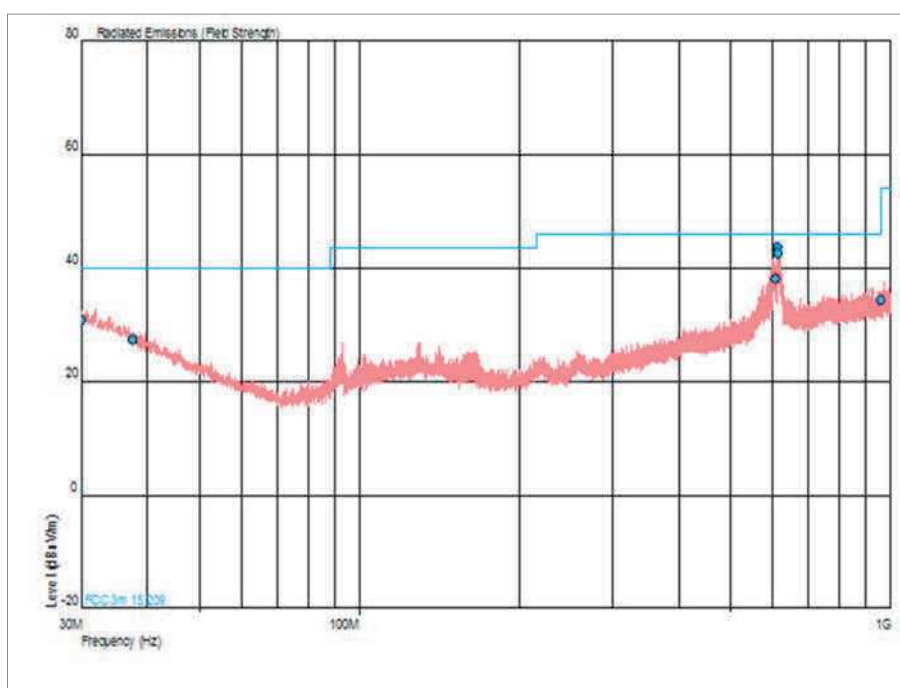


Figure 249 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	656.90	228.56	5000.00	500.00	4343.10	271.44
2.240000	1036.33	486.41	5000.00	500.00	3963.67	13.59
2.250000	1028.02	405.04	5000.00	500.00	3971.98	94.96
2.280000	824.14	247.17	5000.00	500.00	4175.86	252.83
2.500000	918.33	190.77	5000.00	500.00	4081.67	309.23

Table 120 - 2437 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.

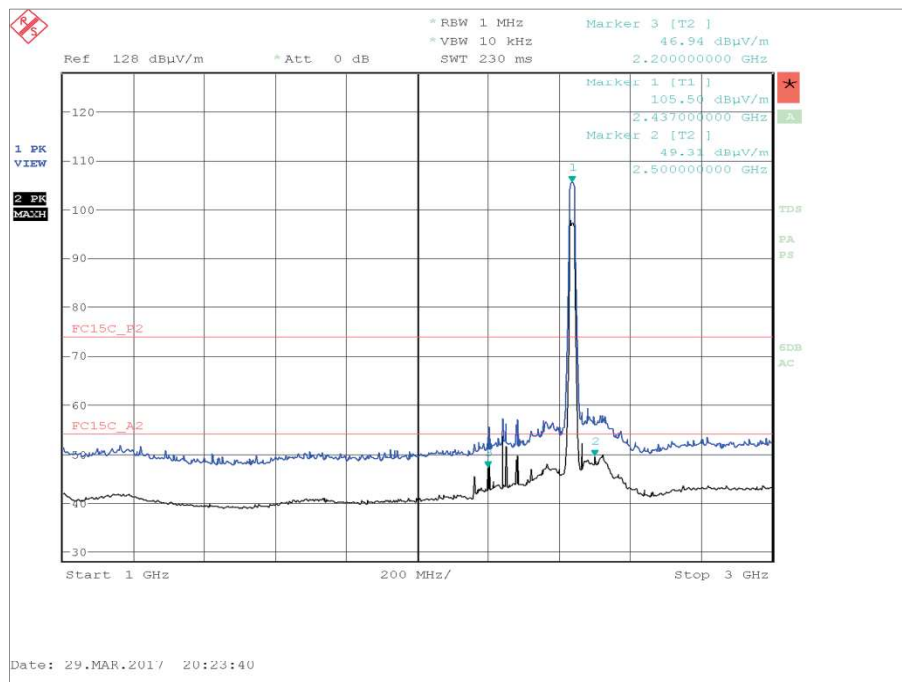


Figure 250 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

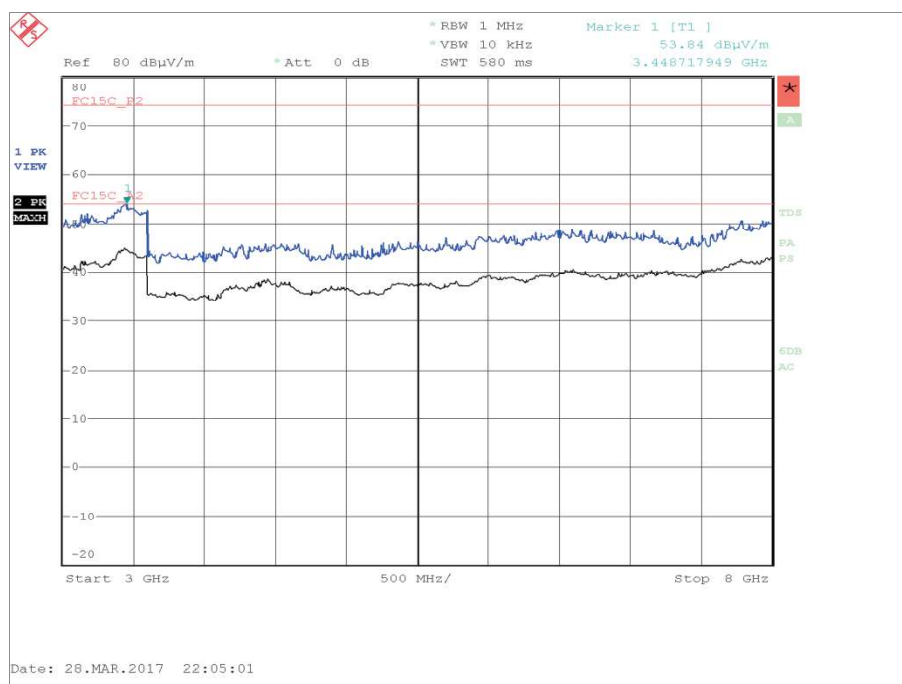


Figure 251 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

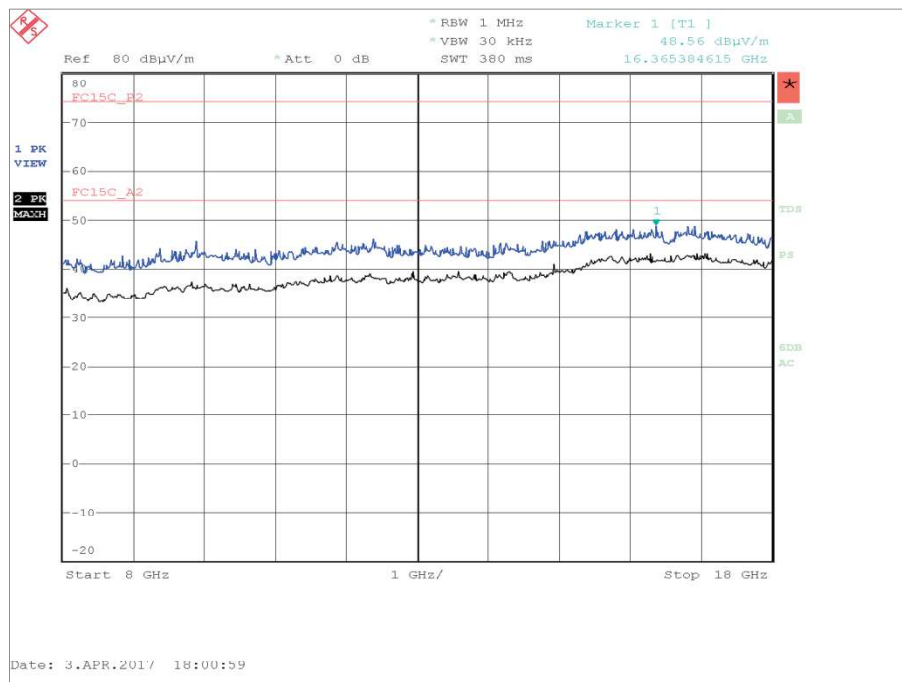


Figure 252 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

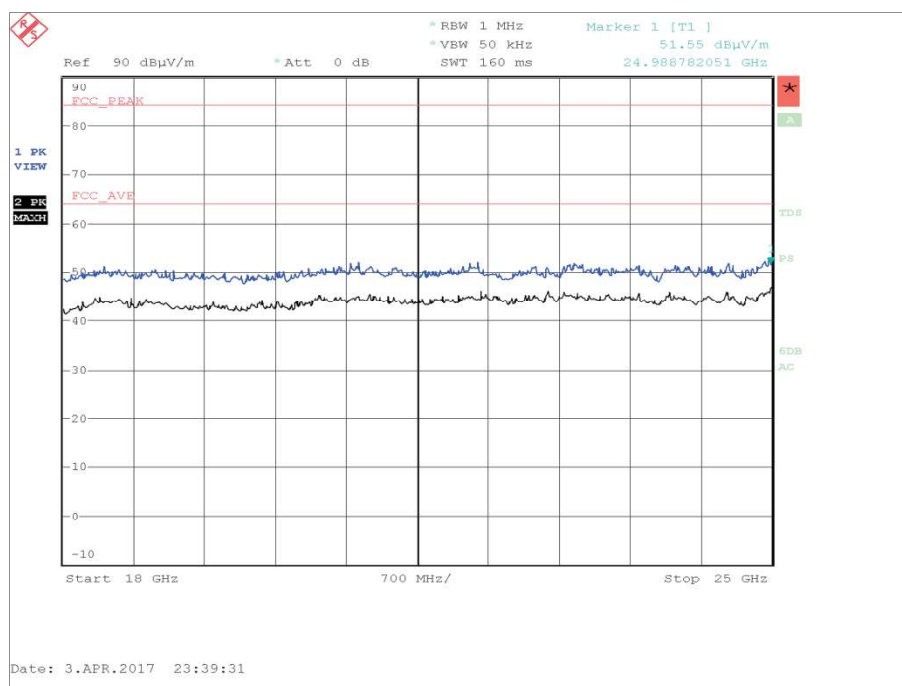


Figure 253 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical



Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.212	31.0	40.0	-9.0	127	1.00	Vertical
37.500	27.3	40.0	-12.7	360	1.00	Vertical
608.000	38.9	46.0	-7.1	100	1.00	Vertical
613.365	43.0	46.0	-3.0	98	1.00	Vertical
614.000	42.3	46.0	-3.7	95	1.00	Vertical
960.000	34.4	46.0	-11.6	63	1.00	Vertical

Table 121 - 2462 MHz - 30 MHz to 1 GHz

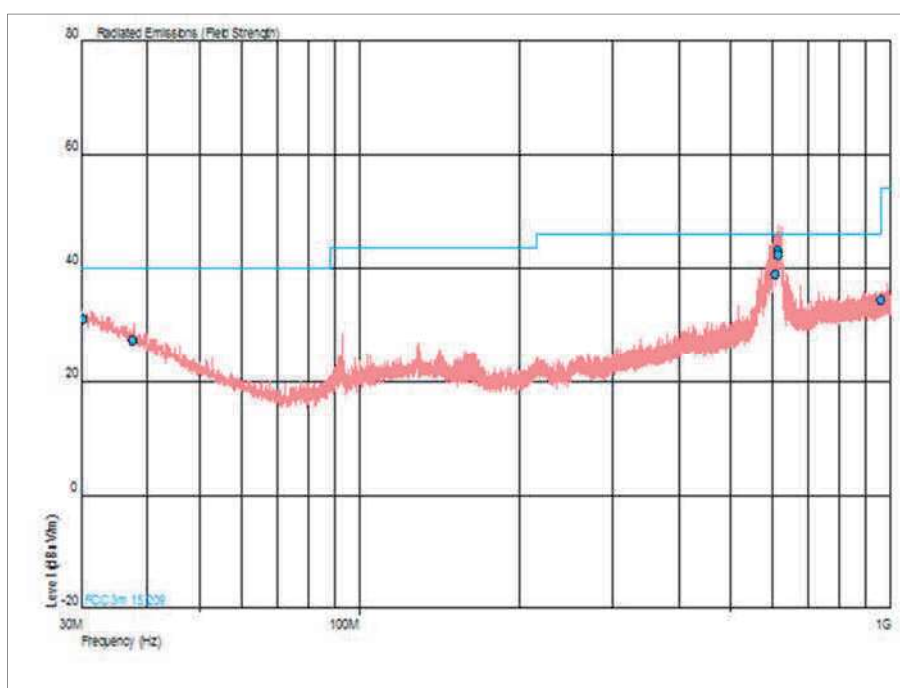


Figure 254 - 2462 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	666.04	226.20	5000.00	500.00	4333.96	273.80
2.240000	1073.99	495.35	5000.00	500.00	3926.01	4.55
2.250000	942.97	431.02	5000.00	500.00	4057.03	68.98
2.280000	762.08	242.94	5000.00	500.00	4237.92	257.06
2.320000	917.28	281.84	5000.00	500.00	4082.72	218.16
2.375000	921.51	238.78	5000.00	500.00	4078.49	261.22

Table 122 - 2462 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

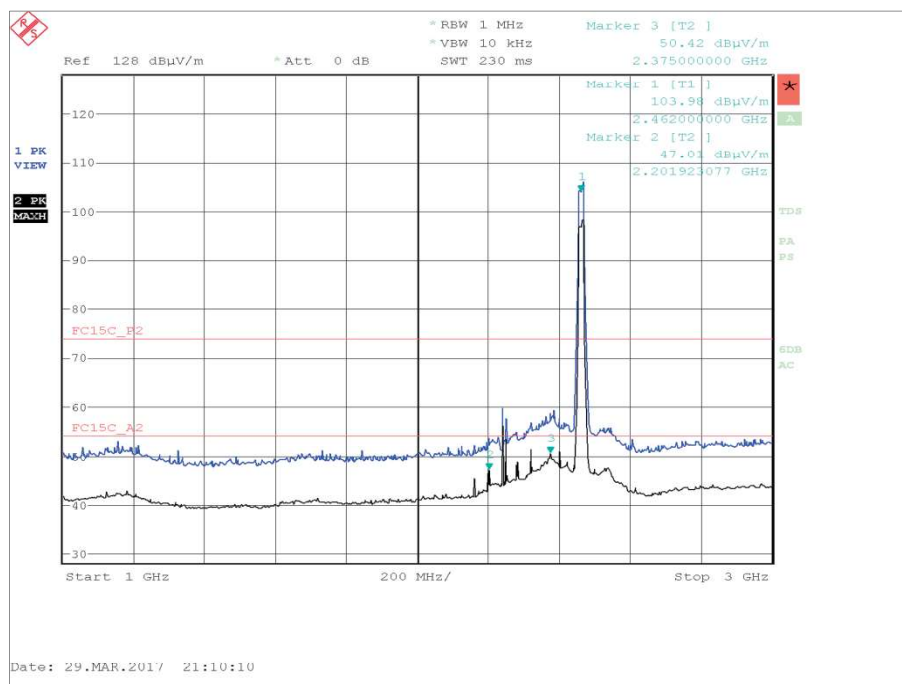


Figure 255 - 2462 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

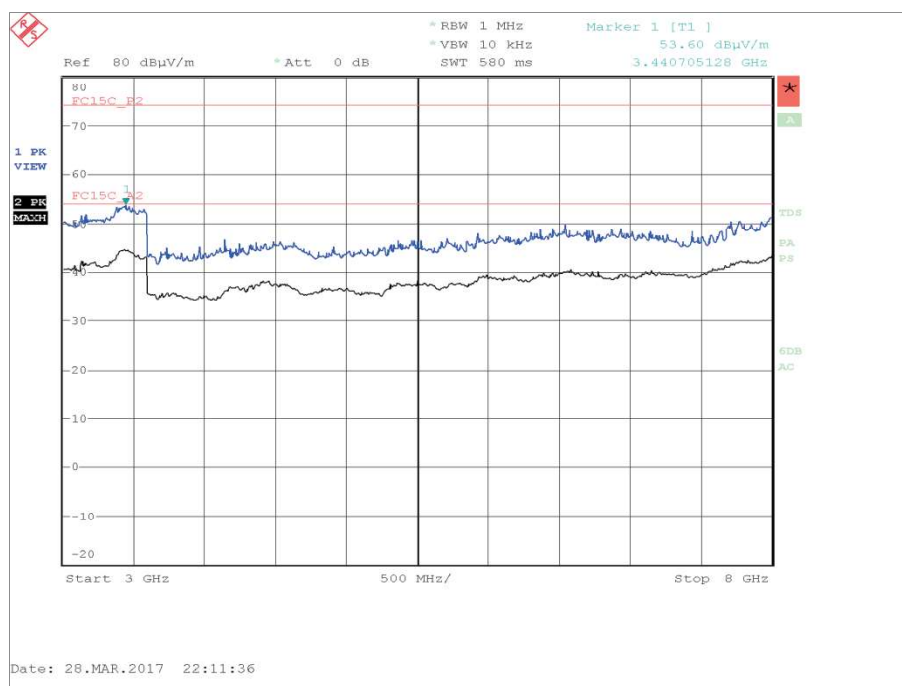


Figure 256 - 2462 MHz - 3 GHz to 8 GHz - Horizontal and Vertical

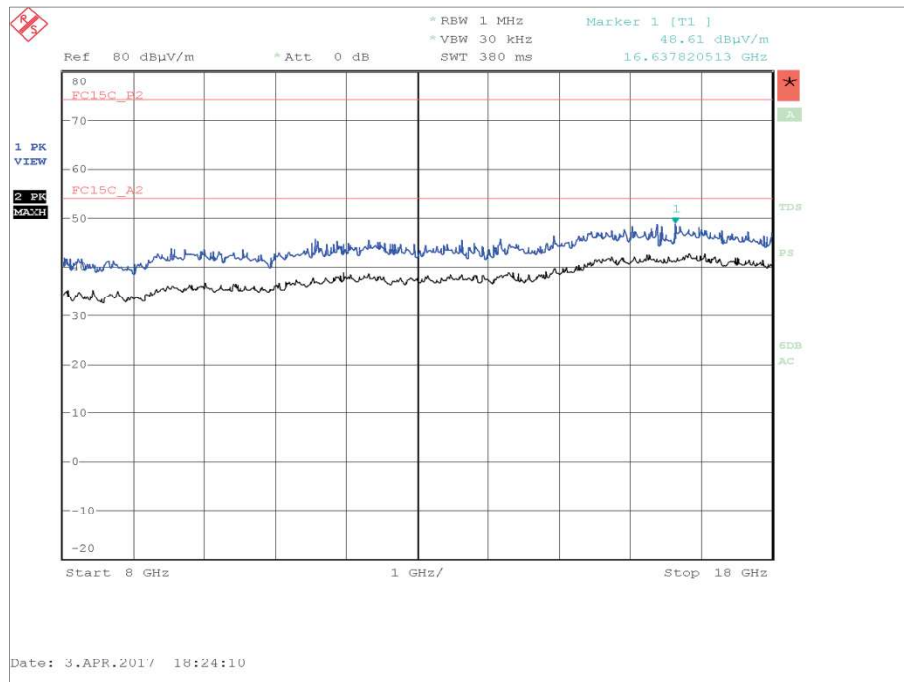


Figure 257 - 2462 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

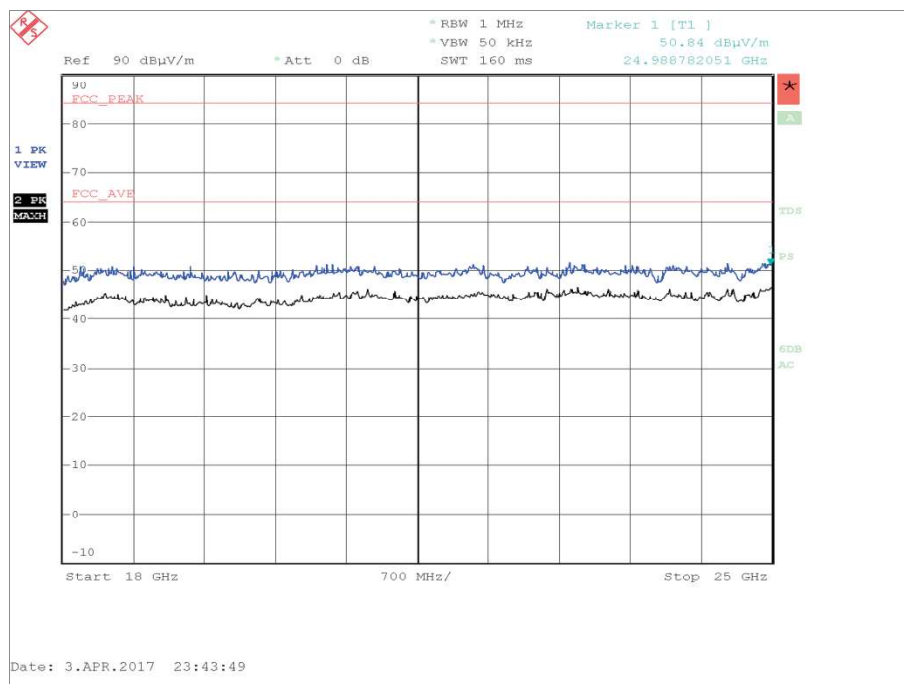


Figure 258 - 2462 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

ANT795-6DC - 802.11n 40 MHz Bandwidth

Testing was performed on the Modulation Coding Scheme which resulted in the highest conducted output power. The Modulation Coding Scheme used during testing was MCS8.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.269	30.8	40.0	-9.2	194	1.00	Vertical
37.500	27.3	40.0	-12.7	251	1.00	Vertical
608.000	38.5	46.0	-7.5	96	1.00	Vertical
613.260	43.0	46.0	-3.0	102	1.00	Vertical
614.000	41.2	46.0	-4.8	126	1.00	Vertical
960.000	34.4	46.0	-11.6	300	1.00	Vertical

Table 123 - 2422 MHz - 30 MHz to 1 GHz

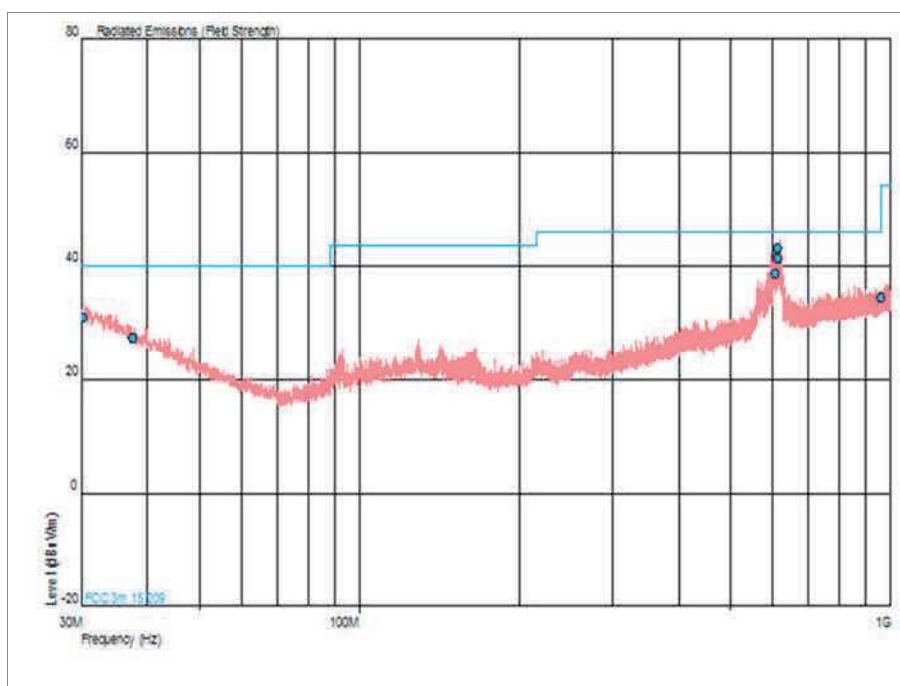


Figure 259 - 2422 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (μV/m)		Limit (μV/m)		Margin (μV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	820.35	306.20	5000.00	500.00	4179.65	193.80
2.250000	845.28	299.57	5000.00	500.00	4154.72	200.43
2.500000	737.06	164.63	5000.00	500.00	4262.94	335.37

Table 124 - 2422 MHz - 1 GHz to 25 GHz

No other emissions were detected within 10 dB of the limit.



Product Service

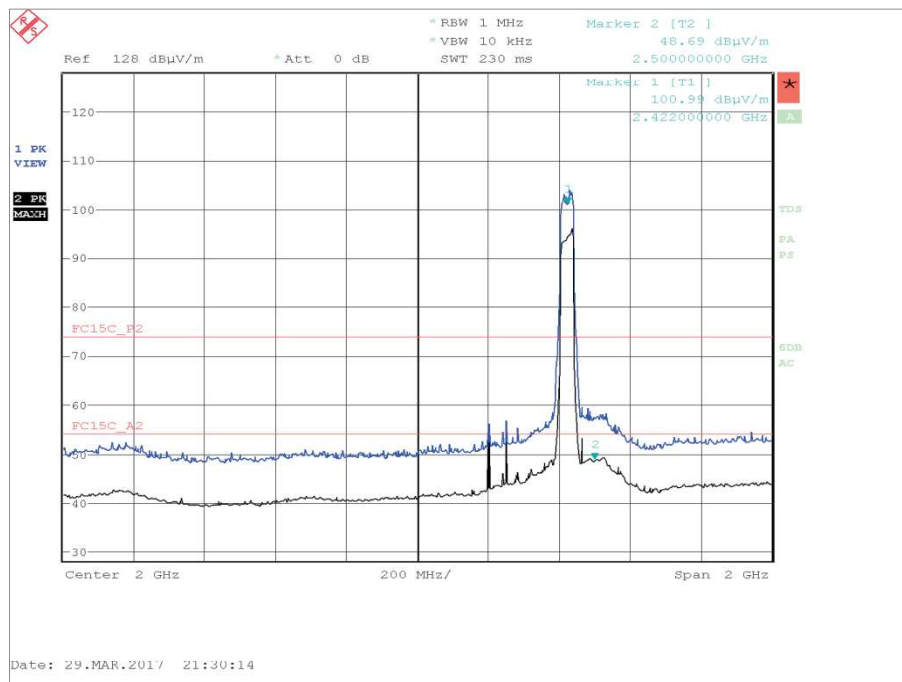


Figure 260 - 2422 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

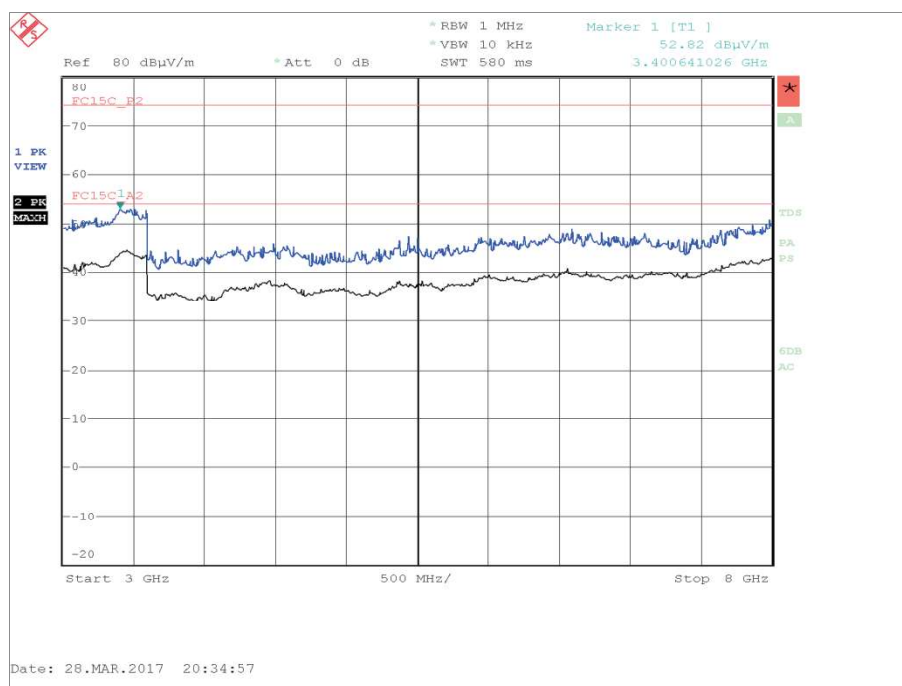


Figure 261 - 2422 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

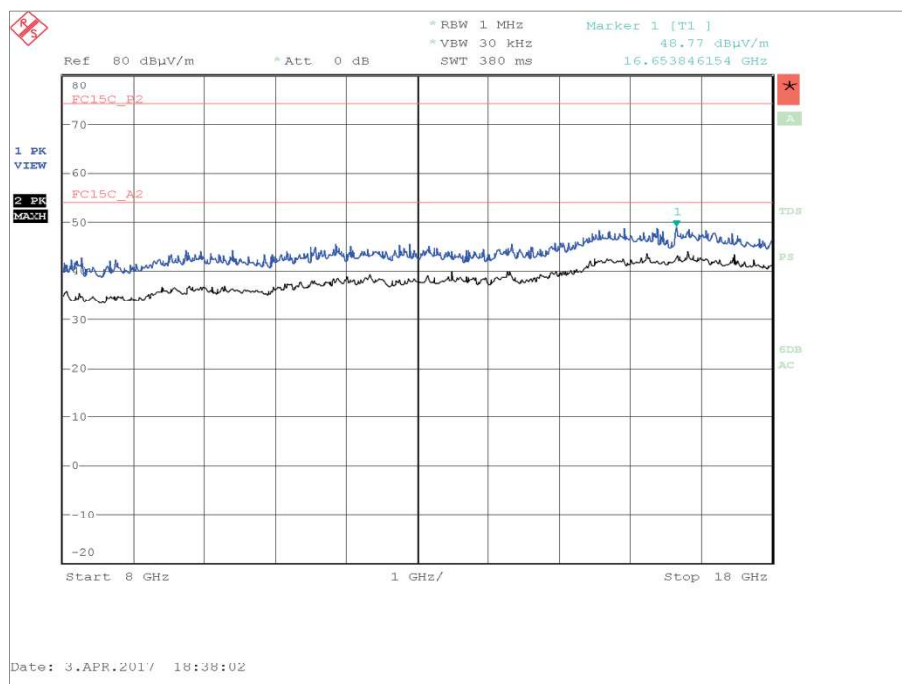


Figure 262 - 2422 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

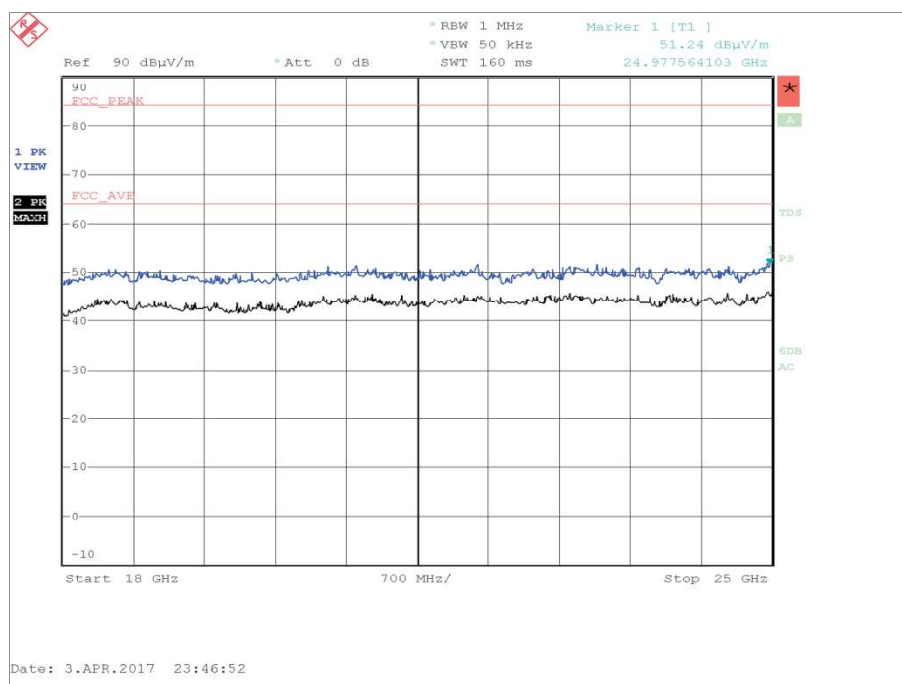


Figure 263 - 2422 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.396	30.6	40.0	-9.4	307	1.00	Vertical
37.500	27.4	40.0	-12.6	341	1.00	Vertical
608.000	38.4	46.0	-7.6	95	1.00	Vertical
612.385	43.5	46.0	-2.5	109	1.00	Vertical
614.000	39.2	46.0	-6.8	138	1.00	Vertical
960.000	34.4	46.0	-11.6	251	1.00	Vertical

Table 125 - 2437 MHz - 30 MHz to 1 GHz

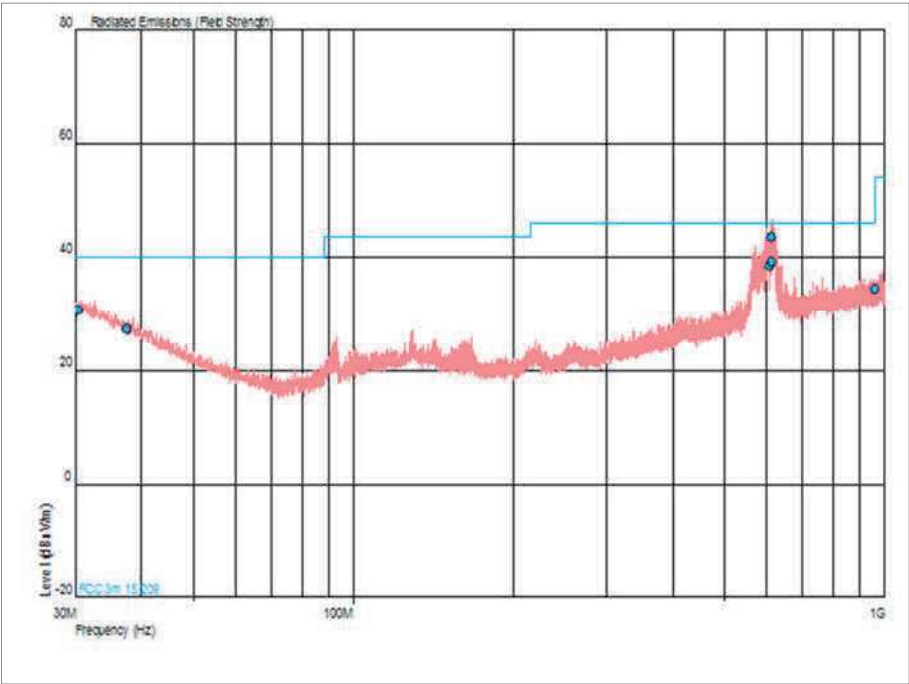


Figure 264 - 2437 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	804.45	322.85	5000.00	500.00	4195.55	177.15
2.250000	845.28	276.69	5000.00	500.00	4154.72	223.31
2.500000	713.67	169.24	5000.00	500.00	4286.33	330.76

Table 126 - 2437 MHz - 1 GHz to 25 GHz



Product Service

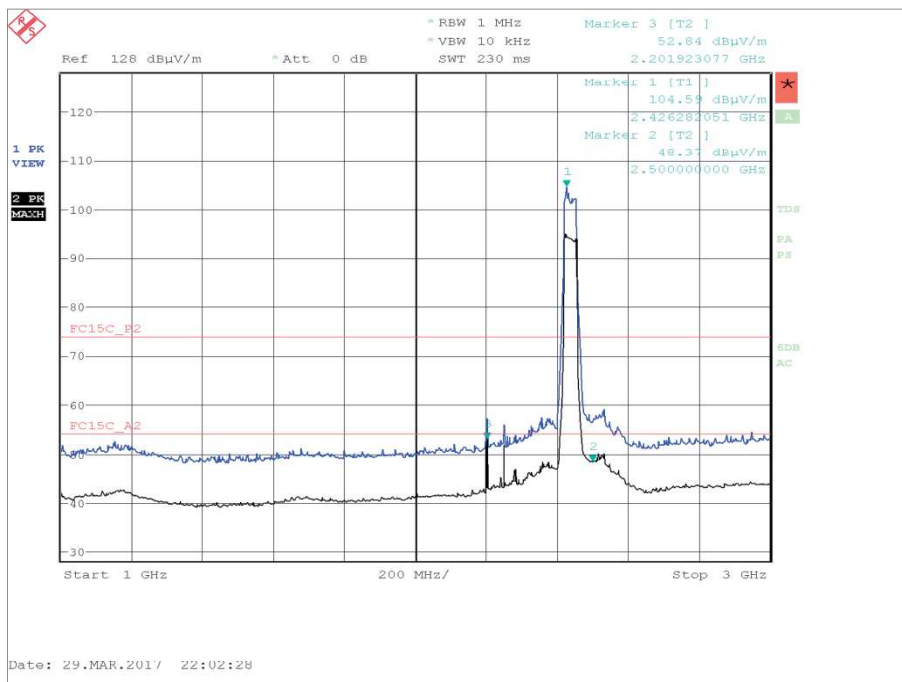


Figure 265 - 2437 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

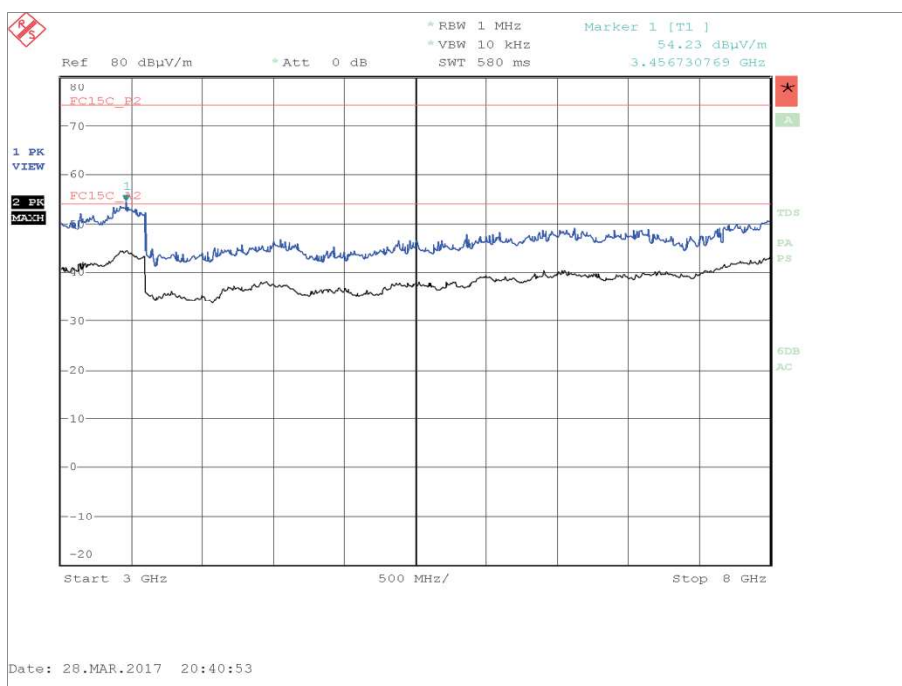


Figure 266 - 2437 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

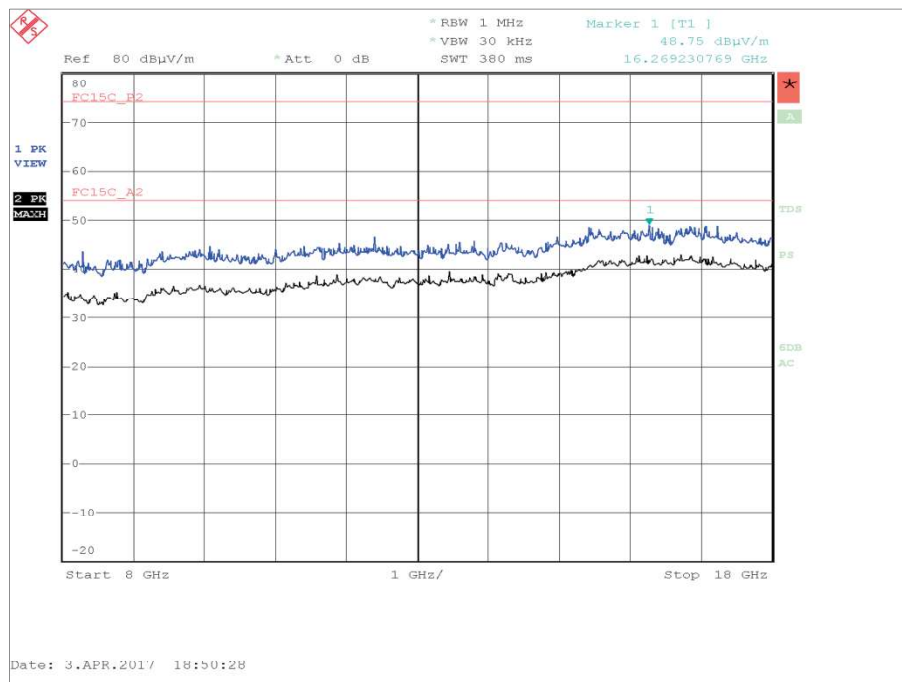


Figure 267 - 2437 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

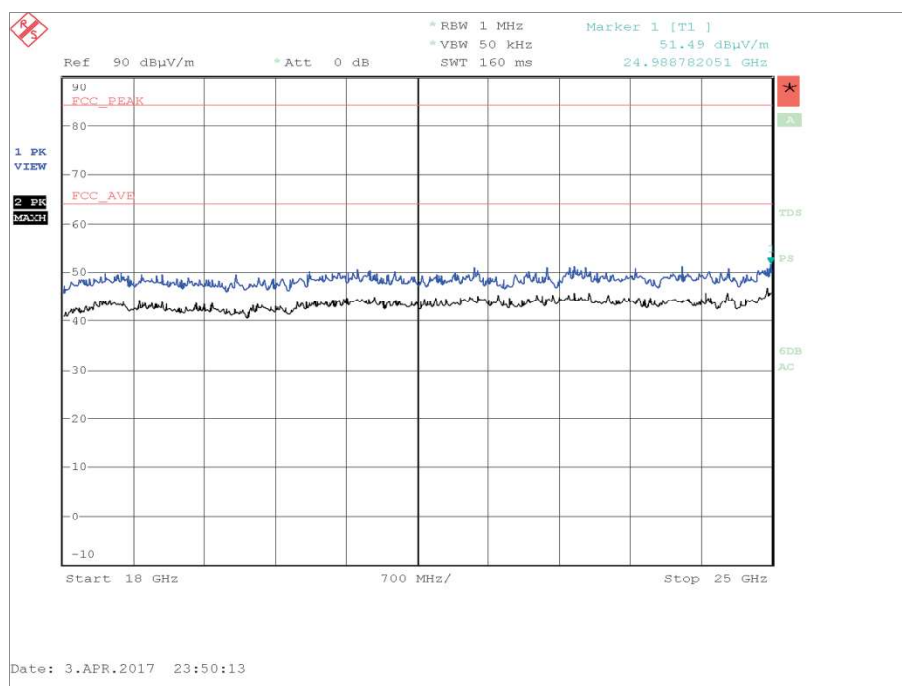


Figure 268 - 2437 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
30.113	30.8	40.0	-9.2	130	1.00	Vertical
37.500	27.4	40.0	-12.6	242	1.00	Vertical
608.000	38.6	46.0	-7.4	105	1.00	Vertical
612.846	45.4	46.0	-0.6	116	1.00	Vertical
614.000	43.0	46.0	-3.0	127	1.00	Vertical
960.000	34.4	46.0	-11.6	360	1.00	Vertical

Table 127 - 2452 MHz - 30 MHz to 1 GHz

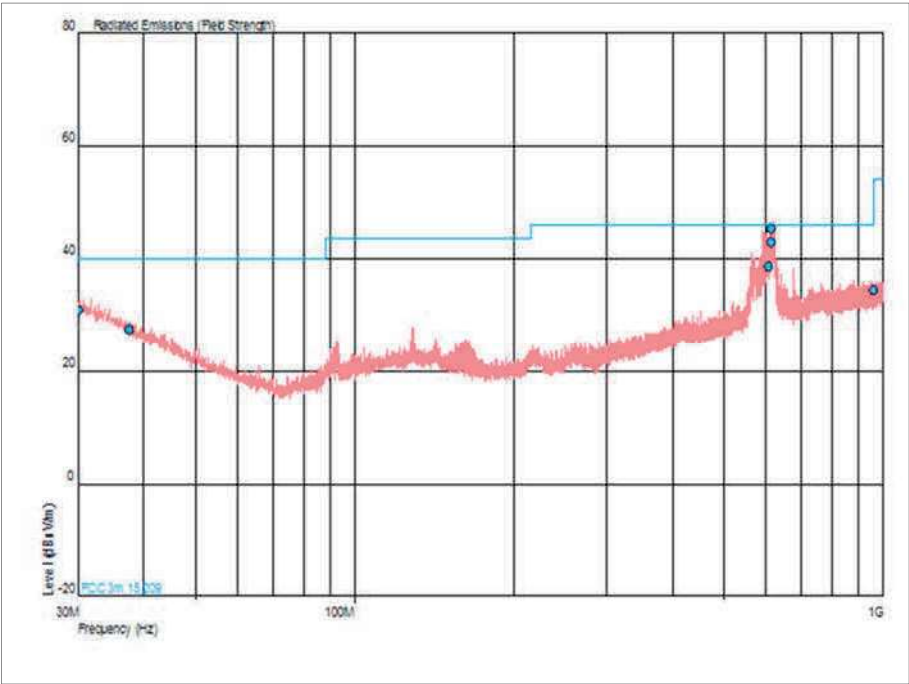


Figure 269 - 2452 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
2.200000	816.58	298.88	5000.00	500.00	4183.42	201.12
2.250000	844.31	262.72	5000.00	500.00	4155.69	237.28
2.500000	740.46	166.53	5000.00	500.00	4259.54	333.47

Table 128 - 2452 MHz - 1 GHz to 25 GHz



Product Service

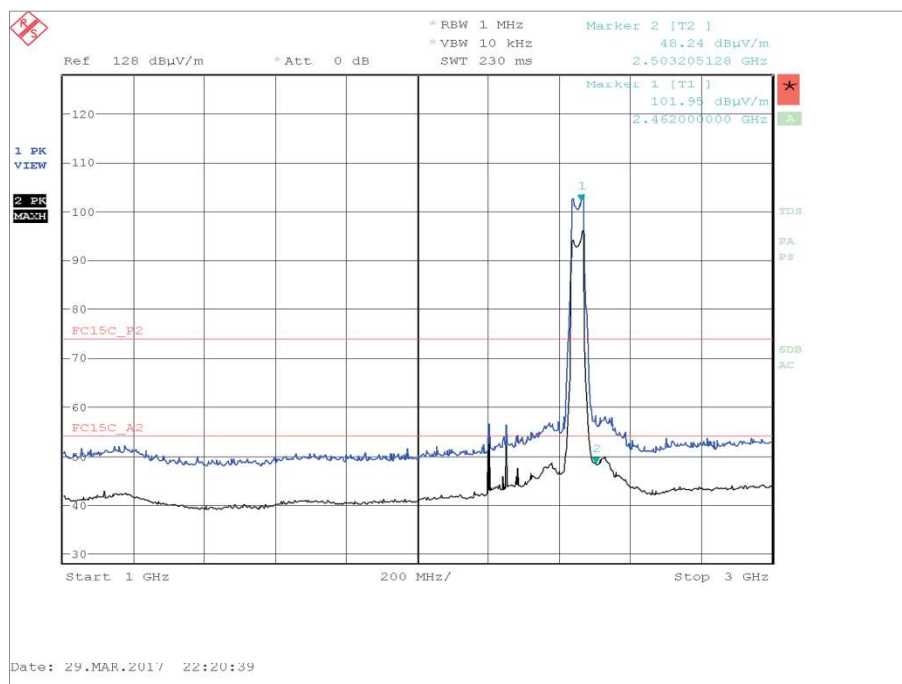


Figure 270 - 2452 MHz - 1 GHz to 3 GHz - Horizontal and Vertical

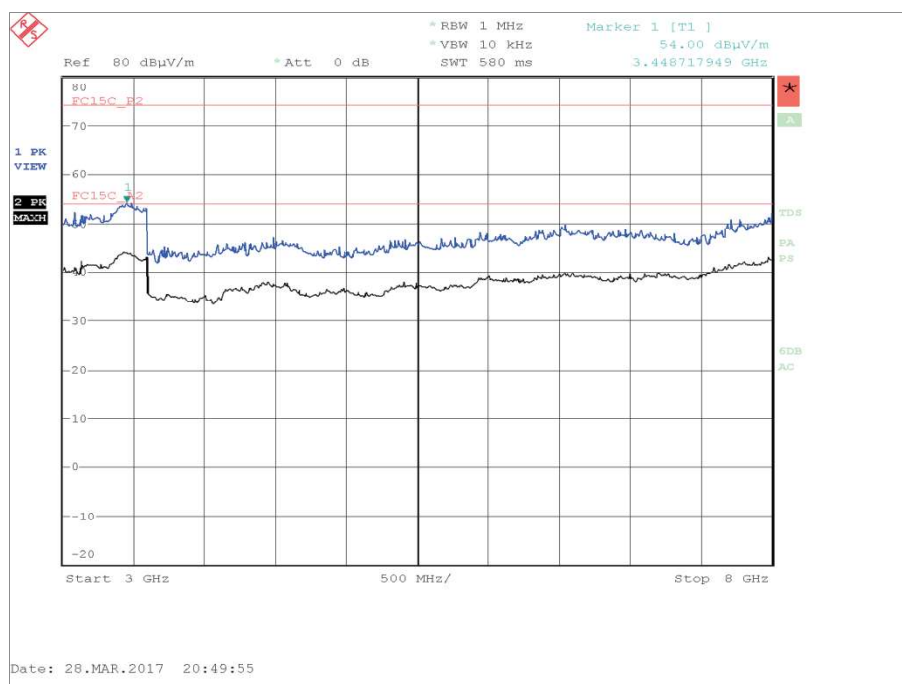


Figure 271 - 2452 MHz - 3 GHz to 8 GHz - Horizontal and Vertical



Product Service

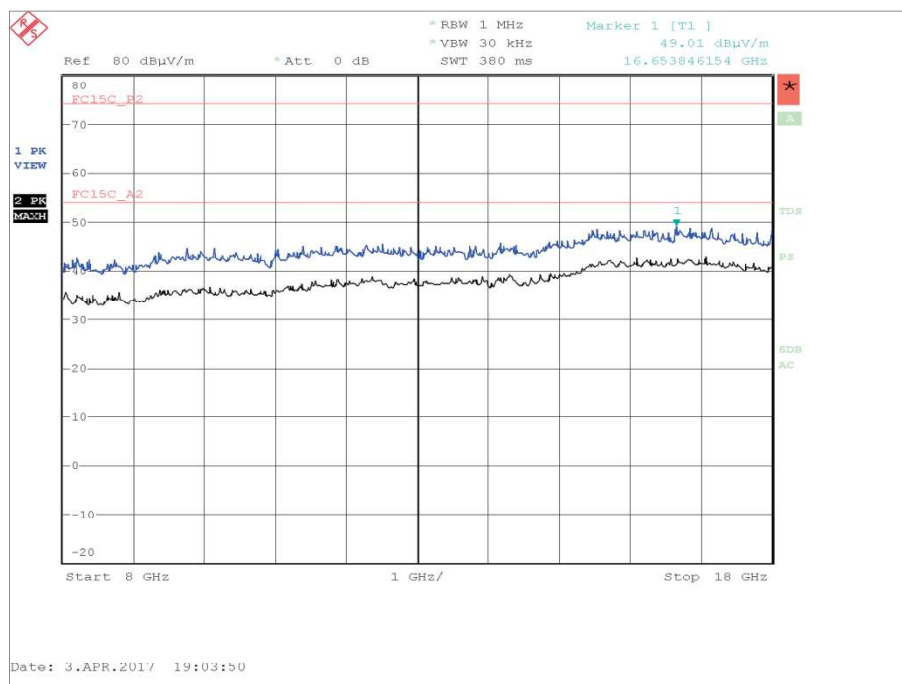


Figure 272 - 2452 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

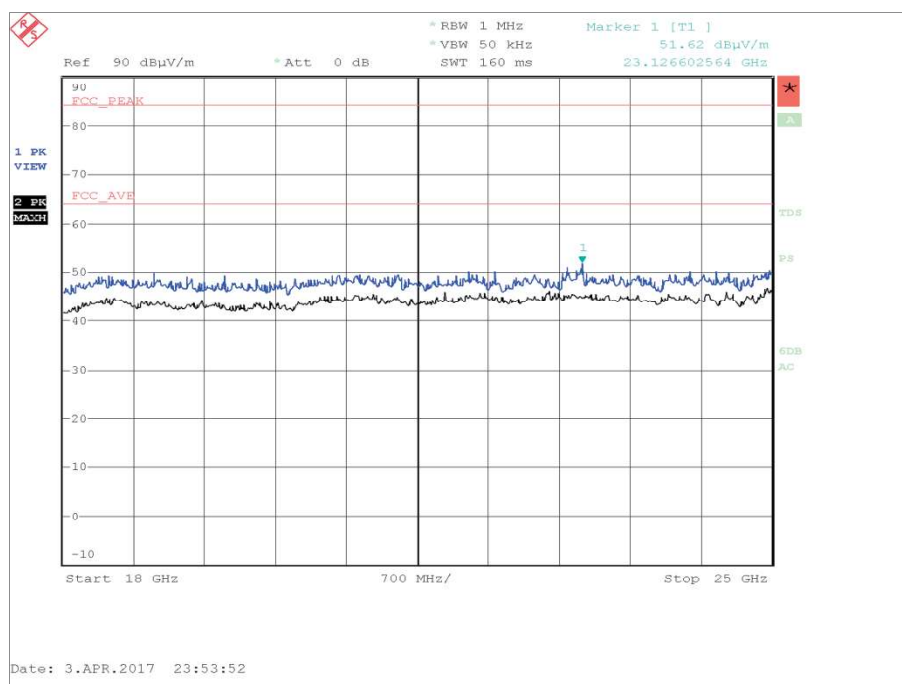


Figure 273 - 2452 MHz - 18 GHz to 25 GHz - Horizontal and Vertical

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

Industry Canada RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

2.5.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Antenna 18-40GHz (Double Ridge Guide)	Link Microtek Ltd	AM180HA-K-TU2	230	24	12-Feb-2018
Hygrometer	Rotronic	A1	1388	12	13-Apr-2017
Pre-Amplifier	Phase One	PS04-0086	1533	12	29-Jul-2017
18GHz - 40GHz Pre-Amplifier	Phase One	PS04-0087	1534	12	23-Jan-2018
Screened Room (5)	Rainford	Rainford	1545	36	20-Dec-2017
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygrometer	Rotronic	A1	2138	12	02-Feb-2018
Antenna (Bilog)	Chase	CBL6143	2904	24	11-Jun-2017
Signal Generator (10MHz to 40GHz)	Rohde & Schwarz	SMR40	3171	12	02-Nov-2017
Cable (N-N, 8m)	Rhophase	NPS-2302-8000-NPS	3248	-	O/P Mon
EMI Test Receiver	Rohde & Schwarz	ESU40	3506	12	12-Nov-2017
Multimeter	Fluke	177	3813	12	14-Sep-2017
Tilt Antenna Mast	matur GmbH	TAM 4.0-P	3916	-	TU



Product Service

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Mast Controller	maturo Gmbh	NCD	3917	-	TU
TRUE RMS MULTIMETER	Fluke	179	4006	12	13-Dec-2017
Suspended Substrate Highpass Filter	Advance Power Components	11SH10-3000/X18000-O/O	4411	12	22-May-2017
Suspended Substrate Highpass Filter	Advance Power Components	11SH10-3000/X18000-O/O	4412	12	23-Mar-2017
Cable (Yellow, Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000-KPS	4527	-	O/P Mon
Cable (Rx, SMAm-SMAm 0.5m)	Scott Cables	SLSLL18-SMSM-00.50M	4528	6	03-Feb-2017
Double Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	4722	12	17-Feb-2018
Double Ridge Broadband Horn Antenna	Schwarzbeck	BBHA 9120 B	4848	12	17-Feb-2018

Table 129

TU - Traceability Unscheduled
 O/P Mon – Output Monitored using calibrated equipment

2.6 Power Spectral Density

2.6.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (e)
Industry Canada RSS-247, Clause 5.2
Industry Canada RSS-GEN, Clause 6.12

2.6.2 Equipment Under Test and Modification State

MSN65-W1-M12-E2, S/N: Not Serialised (75938097-TSR0001) - Modification State 0

2.6.3 Date of Test

06-March-2017 to 07-March-2017

2.6.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 11.10.6.

The chosen RBW was 100 kHz.

The output power for transmitter modes of operation supporting MiMo were summed and added as described in KDB 662911 D01, clause E.2(a).

Duty Cycle was considered to be non-constant and was therefore calculated using the method described in ANSI C63.10, clause 11.6. The measurement time used was 100 ms and the total on time period determined and the offset calculated included in the reference level offset of the spectrum analyser.

2.6.5 Environmental Conditions

Ambient Temperature	23.2 °C
Relative Humidity	41.1 %



2.6.6 Test Results

ANT795-4MX - 802.11b

Modulation: DSSS

Data Rate: 1 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-3.25	-3.40	-3.73
2	-2.83	-3.38	-2.63

Table 130

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-4MX - 802.11g

Modulation: OFDM

Data Rate: 6 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-5.92	-6.83	-6.51
2	-5.93	-5.50	-5.50

Table 131

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-4MX - 802.11n 20 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS0

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-6.71	-7.67	-7.20
2	-6.08	-6.44	-6.35
Total Power	-3.37	-4.00	-3.74

Table 132

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-4MX - 802.11n 40 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS8

Port	Power Spectral Density (dBm)		
	2422 MHz	2437 MHz	2452 MHz
1	-8.75	-8.27	-8.48
2	-9.00	-8.46	-8.43
Total Power	-5.86	-5.35	-5.44

Table 133

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT792-6MN - 802.11b

Modulation: DSSS

Data Rate: 1 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-6.31	-6.63	-6.25
2	-5.99	-6.00	-6.08

Table 134

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT792-6MN - 802.11g

Modulation: OFDM

Data Rate: 6 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-9.72	-9.48	-9.42
2	-8.40	-8.60	-8.47

Table 135

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT792-6MN - 802.11n 20 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS0

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-10.22	-10.62	-9.79
2	-9.40	-9.29	-8.91
Total Power	-6.78	-6.89	-6.32

Table 136

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT792-6MN - 802.11n 40 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS8

Port	Power Spectral Density (dBm)		
	2422 MHz	2437 MHz	2452 MHz
1	-14.92	-14.61	-14.30
2	-14.70	-14.51	-14.94
Total Power	-11.80	-11.55	-11.60

Table 137

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-6DC - 802.11b

Modulation: DSSS

Data Rate: 1 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-9.42	-10.40	-9.72
2	-9.43	-8.81	-8.74

Table 138

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-6DC - 802.11g

Modulation: OFDM

Data Rate: 6 Mbps

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-12.18	-12.65	-12.60
2	-11.68	-11.71	-11.68

Table 139

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-6DC - 802.11n 20 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS0

Port	Power Spectral Density (dBm)		
	2412 MHz	2437 MHz	2462 MHz
1	-13.05	-12.73	-12.87
2	-12.25	-12.27	-12.50
Total Power	-9.62	-9.48	-9.67

Table 140

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

ANT795-6DC - 802.11n 40 MHz Bandwidth

Modulation: OFDM

Modulation Coding Scheme: MCS8

Port	Power Spectral Density (dBm)		
	2422 MHz	2437 MHz	2452 MHz
1	-14.92	-14.61	-14.30
2	-14.70	-14.51	-14.94
Total Power	-11.80	-11.55	-11.60

Table 141

FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Industry Canada RSS-247, Limit Clause 5.2(b)

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

2.6.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 3.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Multimeter	White Gold	WG022	190	12	24-Nov-2017
Attenuator 10dB/10W)	Trilithic	HFP-50N	454	12	26-Aug-2017
Termination (50ohm, 50W)	Bird	8085	472	12	08-Sep-2017
Power Supply Unit	Farnell	TSV-70	2043	-	O/P Mon
Hygrometer	Rotronic	I-1000	2891	12	23-Aug-2017
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	15-Sep-2017
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	08-Sep-2017
1 metre SMA Cable	Florida Labs	SMS-235SP-39.4-SMS	4513	12	16-Apr-2017
PXA Signal Analyser	Keysight Technologies	N9030A	4653	12	12-Jan-2018

Table 142

O/P Mon – Output Monitored using calibrated equipment



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Maximum Conducted Output Power	± 0.70 dB
Power Spectral Density	± 3.0 dB
Spurious Radiated Emissions	30 MHz to 1 GHz: ± 5.1 dB 1 GHz to 40 GHz: ± 6.3 dB
Restricted Band Edges	30 MHz to 1 GHz: ± 5.1 dB 1 GHz to 40 GHz: ± 6.3 dB
Authorised Band Edges	Radiated: 30 MHz to 1 GHz: ± 5.1 dB Radiated: 1 GHz to 40 GHz: ± 6.3 dB
Emission Bandwidth	± 212.114 kHz

Table 143